



Full wwPDB EM Validation Report ⓘ

Dec 22, 2022 – 02:08 am GMT

PDB ID : 7Z4B
EMDB ID : EMD-14492
Title : Bacteriophage SU10 virion (C1)
Authors : Siborova, M.; Fuzik, T.; Prochazkova, M.; Novacek, J.; Plevka, P.
Deposited on : 2022-03-03
Resolution : 7.40 Å (reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev43
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.3

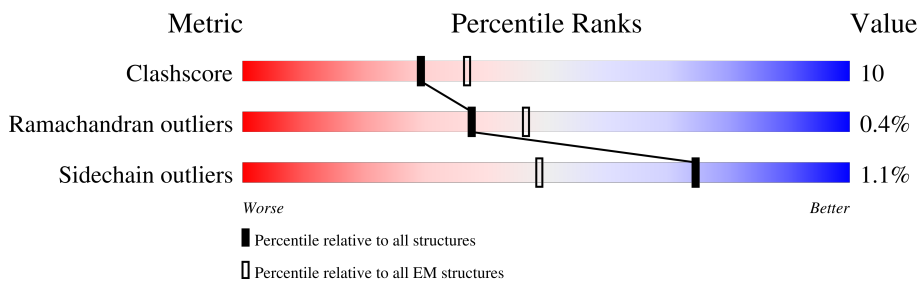
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 7.40 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	AA	352	<div style="display: flex; justify-content: space-between;"> 25% 86% 12% </div>
1	AB	352	<div style="display: flex; justify-content: space-between;"> 26% 88% 10% </div>
1	AC	352	<div style="display: flex; justify-content: space-between;"> 21% 83% 14% </div>
1	AD	352	<div style="display: flex; justify-content: space-between;"> 28% 87% 11% </div>
1	AE	352	<div style="display: flex; justify-content: space-between;"> 28% 87% 12% </div>
1	AF	352	<div style="display: flex; justify-content: space-between;"> 29% 86% 12% </div>
1	AG	352	<div style="display: flex; justify-content: space-between;"> 30% 86% 13% </div>
1	AH	352	<div style="display: flex; justify-content: space-between;"> 29% 88% 10% </div>

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Mol	Chain	Length	Quality of chain
1	AI	352	28% 89% 9%
1	AJ	352	29% 88% 10%
1	AK	352	30% 81% 17%
1	AL	352	28% 90% 9%
1	AM	352	24% 76% 21%
1	AN	352	24% 87% 11%
1	AO	352	25% 84% 14%
1	AP	352	37% 72% 26%
1	AQ	352	28% 86% 13%
1	AR	352	28% 86% 12%
1	AS	352	32% 80% 18%
1	AT	352	28% 87% 11%
1	AU	352	28% 86% 12%
1	AV	352	28% 86% 13%
1	AW	352	30% 82% 16%
1	AX	352	27% 88% 11%
1	AY	352	49% 87% 11%
1	AZ	352	41% 88% 11%
1	BA	352	44% 83% 15%
1	BB	352	34% 86% 12%
1	BC	352	29% 87% 11%
1	BD	352	29% 88% 11%
1	BE	352	30% 85% 14%
1	BF	352	69% 86% 13%
1	BG	352	35% 89% 9%

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Mol	Chain	Length	Quality of chain
1	BH	352	
1	BI	352	
1	BJ	352	
1	BK	352	
1	BL	352	
1	BM	352	
1	BN	352	
1	BO	352	
1	BP	352	
1	BQ	352	
1	BR	352	
1	BS	352	
1	BT	352	
1	BU	352	
1	BV	352	
1	BW	352	
1	BX	352	
1	BY	352	
1	BZ	352	
1	CA	352	
1	CB	352	
1	CC	352	
1	CD	352	
1	CE	352	
1	CF	352	

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Mol	Chain	Length	Quality of chain
1	CG	352	34% 82% 16%
1	CH	352	24% 88% 10%
1	CI	352	24% 86% 12%
1	CJ	352	24% 87% 12%
1	CK	352	37% 83% 16%
1	CL	352	32% 79% 18%
1	CM	352	19% 85% 13%
1	CN	352	32% 78% 19%
1	CO	352	35% 81% 16%
1	CP	352	34% 84% 14%
1	CQ	352	19% 81% 17%
1	CR	352	37% 83% 15%
1	CS	352	37% 73% 26%
1	CT	352	24% 85% 13%
1	CU	352	17% 79% 19%
1	CV	352	30% 84% 15%
1	CW	352	41% 78% 21%
1	CX	352	21% 90% 9%
1	CY	352	31% 83% 16%
1	CZ	352	34% 77% 22%
1	DA	352	36% 82% 16%
1	DB	352	49% 80% 19%
1	DC	352	47% 83% 15%
1	DD	352	42% 72% 25%
1	DE	352	41% 84% 14%


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Mol	Chain	Length	Quality of chain
1	DF	352	39% 82% 16%
1	DG	352	38% 82% 16%
1	DH	352	35% 80% 18%
1	DI	352	41% 88% 11%
1	DJ	352	32% 81% 17%
1	DK	352	46% 82% 16%
1	DL	352	30% 86% 13%
1	DM	352	36% 82% 16%
1	DN	352	33% 84% 15%
1	DO	352	33% 84% 14%
1	DP	352	34% 78% 20%
1	DQ	352	49% 86% 13%
2	DR	267	97% 85% 13%
2	DS	267	96% 87% 10%
2	DT	267	96% 87% 9%
3	DU	250	81% 38% 45% 5% 11%
3	DV	250	84% 34% 47% 6% 11%
4	DW	1005	88% 71% 18% 9%
5	DX	786	10% 5% 89%
5	DY	786	10% 90%
5	DZ	786	9% 5% 91%
6	EA	322	95% 89% 7%
6	EB	322	96% 91% 7%
6	EC	322	98% 89% 8%
7	ED	747	77% 55% 22% 19%

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Mol	Chain	Length	Quality of chain
7	EE	747	 <p>77% 56% 21% 19%</p>

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 284597 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 Major head protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	AA	347	2685	1684	470	521	10	0	0
1	AB	347	2685	1684	470	521	10	0	0
1	AC	344	2663	1671	466	516	10	0	0
1	AD	347	2685	1684	470	521	10	0	0
1	AE	346	2677	1680	468	519	10	0	0
1	AF	346	2676	1678	468	520	10	0	0
1	AG	347	2685	1684	470	521	10	0	0
1	AH	347	2685	1684	470	521	10	0	0
1	AI	347	2685	1684	470	521	10	0	0
1	AJ	347	2685	1684	470	521	10	0	0
1	AK	347	2685	1684	470	521	10	0	0
1	AL	347	2685	1684	470	521	10	0	0
1	AM	344	2663	1671	466	516	10	0	0
1	AN	344	2663	1671	466	516	10	0	0
1	AO	344	2663	1671	466	516	10	0	0
1	AP	347	2685	1684	470	521	10	0	0
1	AQ	347	2685	1684	470	521	10	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	AR	347	2685	1684	470	521	10	0	0
1	AS	346	2677	1680	468	519	10	0	0
1	AT	346	2677	1680	468	519	10	0	0
1	AU	346	2677	1680	468	519	10	0	0
1	AV	346	2676	1678	468	520	10	0	0
1	AW	346	2676	1678	468	520	10	0	0
1	AX	346	2676	1678	468	520	10	0	0
1	AY	347	2685	1684	470	521	10	0	0
1	AZ	347	2685	1684	470	521	10	0	0
1	BA	344	2663	1671	466	516	10	0	0
1	BB	347	2685	1684	470	521	10	0	0
1	BC	346	2677	1680	468	519	10	0	0
1	BD	346	2676	1678	468	520	10	0	0
1	BE	347	2685	1684	470	521	10	0	0
1	BF	347	2685	1684	470	521	10	0	0
1	BG	347	2685	1684	470	521	10	0	0
1	BH	347	2685	1684	470	521	10	0	0
1	BI	347	2685	1684	470	521	10	0	0
1	BJ	347	2685	1684	470	521	10	0	0
1	BK	344	2663	1671	466	516	10	0	0
1	BL	344	2663	1671	466	516	10	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	BM	344	Total	C	N	O	S	0	0
			2663	1671	466	516	10		
1	BN	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		
1	BO	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		
1	BP	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		
1	BQ	346	Total	C	N	O	S	0	0
			2677	1680	468	519	10		
1	BR	346	Total	C	N	O	S	0	0
			2677	1680	468	519	10		
1	BS	346	Total	C	N	O	S	0	0
			2677	1680	468	519	10		
1	BT	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	BU	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	BV	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	BW	345	Total	C	N	O	S	0	0
			2672	1676	467	519	10		
1	BX	346	Total	C	N	O	S	0	0
			2677	1680	468	519	10		
1	BY	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		
1	BZ	345	Total	C	N	O	S	0	0
			2670	1675	467	518	10		
1	CA	346	Total	C	N	O	S	0	0
			2677	1680	468	519	10		
1	CB	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	CC	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		
1	CD	343	Total	C	N	O	S	0	0
			2657	1668	465	514	10		
1	CE	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	CF	342	Total	C	N	O	S	0	0
			2644	1656	464	514	10		
1	CG	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	CH	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		
1	CI	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	CJ	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		
1	CK	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		
1	CL	343	Total	C	N	O	S	0	0
			2654	1665	464	515	10		
1	CM	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	CN	342	Total	C	N	O	S	0	0
			2644	1656	464	514	10		
1	CO	341	Total	C	N	O	S	0	0
			2637	1651	463	513	10		
1	CP	345	Total	C	N	O	S	0	0
			2668	1674	466	518	10		
1	CQ	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	CR	345	Total	C	N	O	S	0	0
			2670	1675	467	518	10		
1	CS	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		
1	CT	346	Total	C	N	O	S	0	0
			2677	1680	468	519	10		
1	CU	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	CV	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		
1	CW	346	Total	C	N	O	S	0	0
			2677	1680	468	519	10		
1	CX	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	CY	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		
1	CZ	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		
1	DA	346	Total	C	N	O	S	0	0
			2677	1680	468	519	10		
1	DB	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	DC	345	Total	C	N	O	S	0	0
			2670	1675	467	518	10		
1	DD	346	Total	C	N	O	S	0	0
			2677	1680	468	519	10		
1	DE	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	DF	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		
1	DG	343	Total	C	N	O	S	0	0
			2657	1668	465	514	10		
1	DH	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	DI	347	Total	C	N	O	S	0	0
			2685	1684	470	521	10		
1	DJ	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	DK	343	Total	C	N	O	S	0	0
			2654	1665	464	515	10		
1	DL	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	DM	345	Total	C	N	O	S	0	0
			2668	1674	466	518	10		
1	DN	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	DO	346	Total	C	N	O	S	0	0
			2677	1680	468	519	10		
1	DP	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		
1	DQ	346	Total	C	N	O	S	0	0
			2676	1678	468	520	10		

- Molecule 2 is a protein called Putative structural protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	DR	263	Total	C	N	O	S	0	0
			1420	809	289	317	5		
2	DS	263	Total	C	N	O	S	0	0
			1424	812	289	317	6		
2	DT	263	Total	C	N	O	S	0	0
			1424	812	289	317	6		

- Molecule 3 is a protein called Adaptor.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	DU	222	Total	C	N	O	S	0	0
			1813	1171	292	345	5		
3	DV	222	Total	C	N	O	S	0	0
			1813	1171	292	345	5		

- Molecule 4 is a protein called Surface protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	DW	910	Total	C	N	O	S	0	0
			7063	4465	1178	1404	16		

- Molecule 5 is a protein called Putative tail fiber.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	DX	87	Total	C	N	O	S	0	0
			683	430	112	139	2		
5	DY	80	Total	C	N	O	S	0	0
			628	397	102	127	2		
5	DZ	68	Total	C	N	O	S	0	0
			545	347	87	109	2		

- Molecule 6 is a protein called Putative tail tip fiber protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
6	EA	322	Total	C	N	O	0	0
			1289	644	322	323		
6	EB	322	Total	C	N	O	0	0
			1289	644	322	323		
6	EC	322	Total	C	N	O	0	0
			1289	644	322	323		

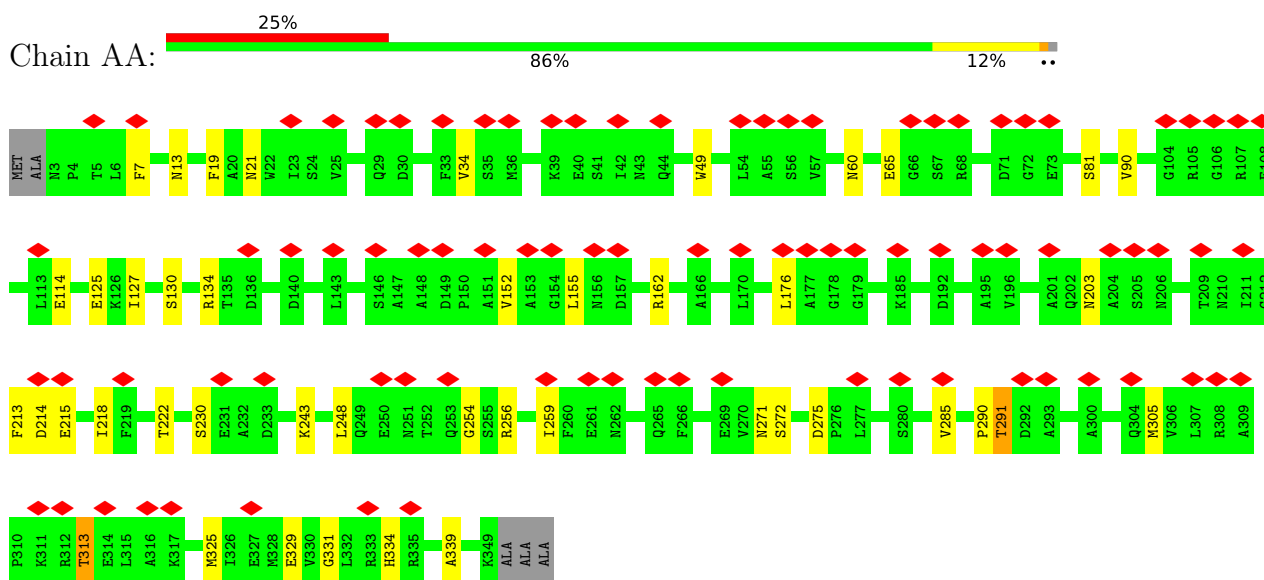
- Molecule 7 is a protein called Portal protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	ED	604	Total	C	N	O	S	0	0
			4838	3038	835	942	23		
7	EE	604	Total	C	N	O	S	0	0
			4838	3038	835	942	23		

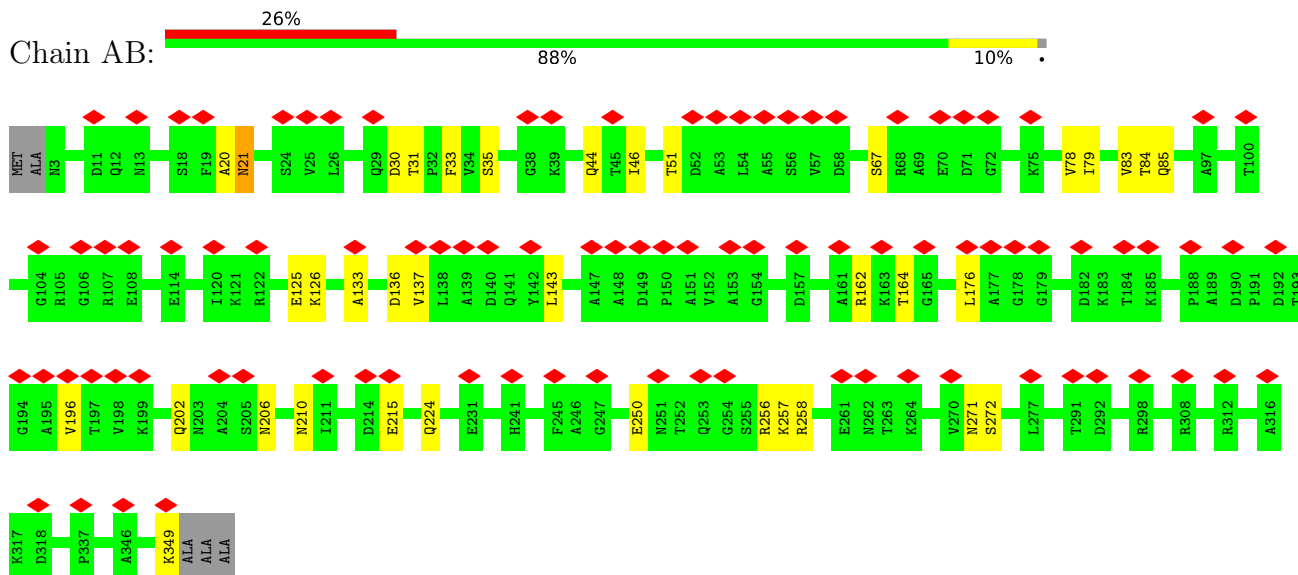
3 Residue-property plots [i](#)

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.

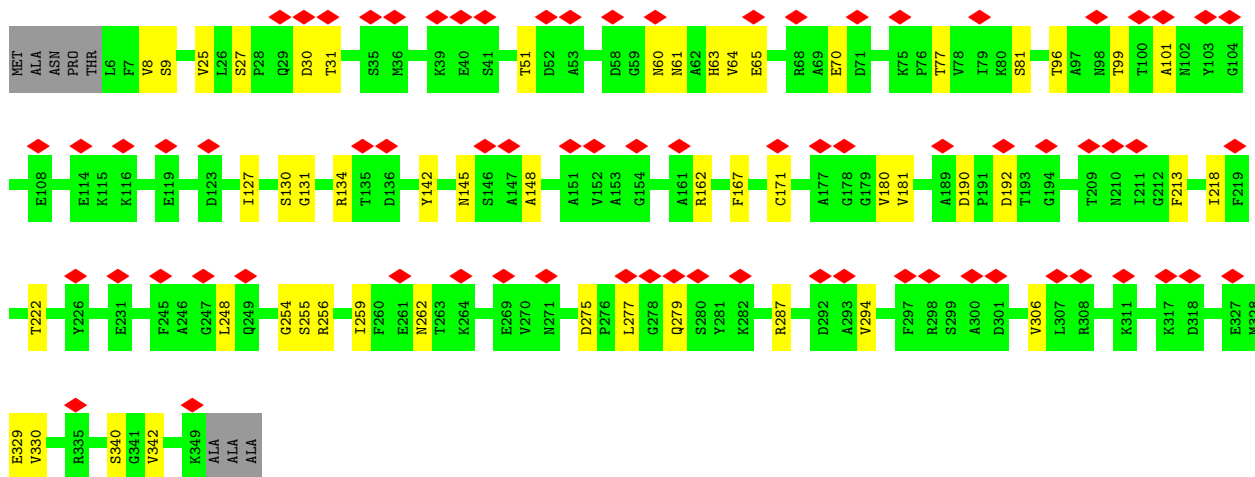
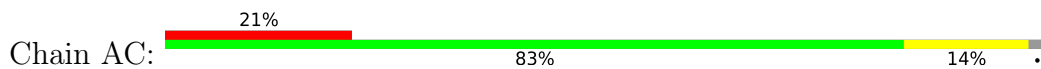
- Molecule 1: Major head protein



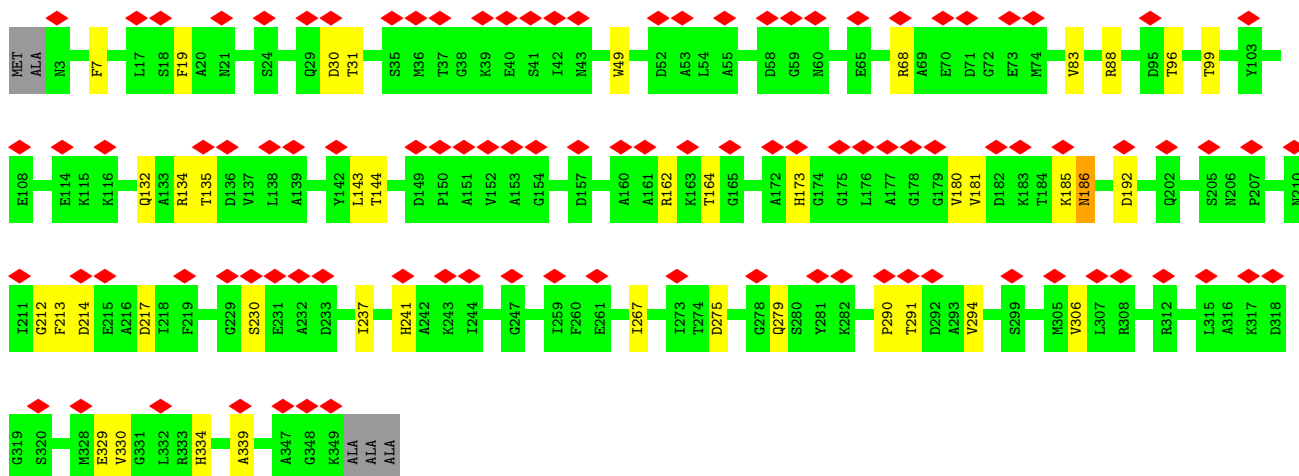
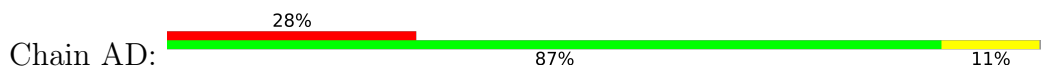
- Molecule 1: Major head protein



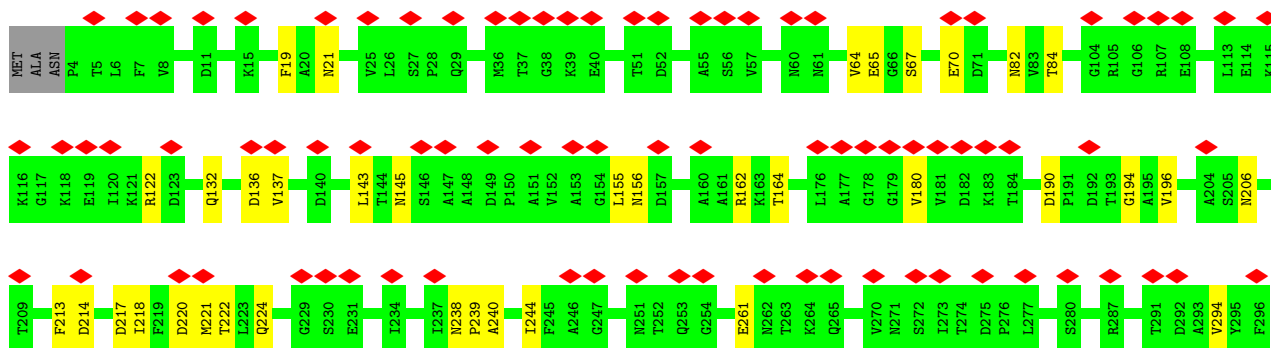
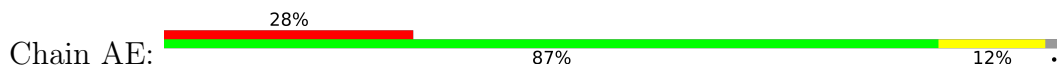
- Molecule 1: Major head protein

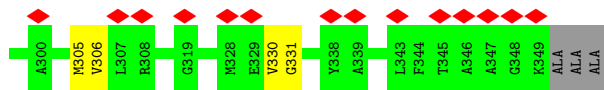


• Molecule 1: Major head protein

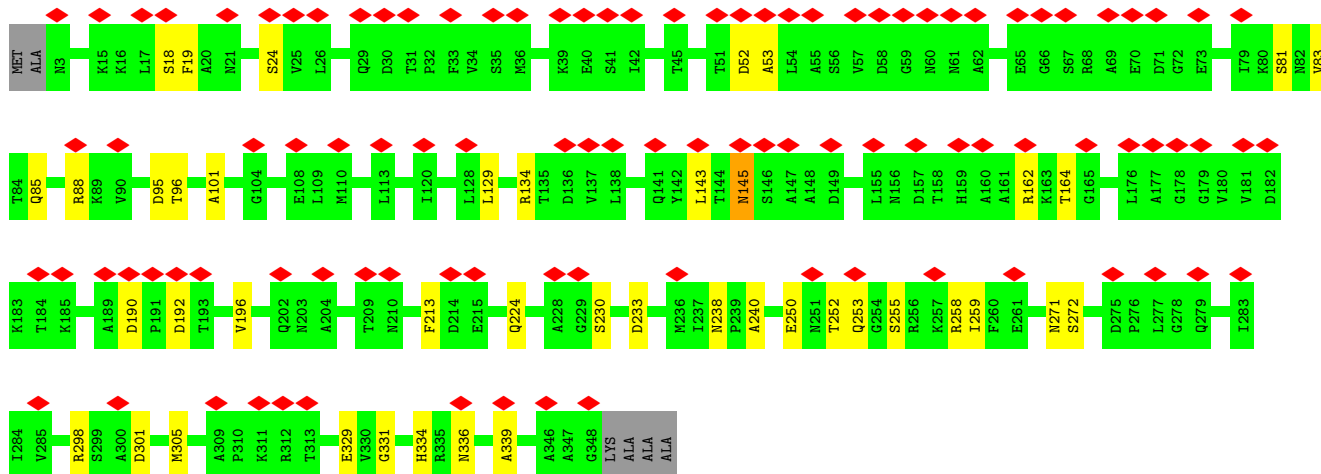
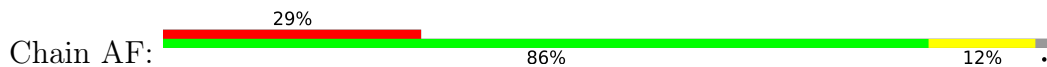


• Molecule 1: Major head protein

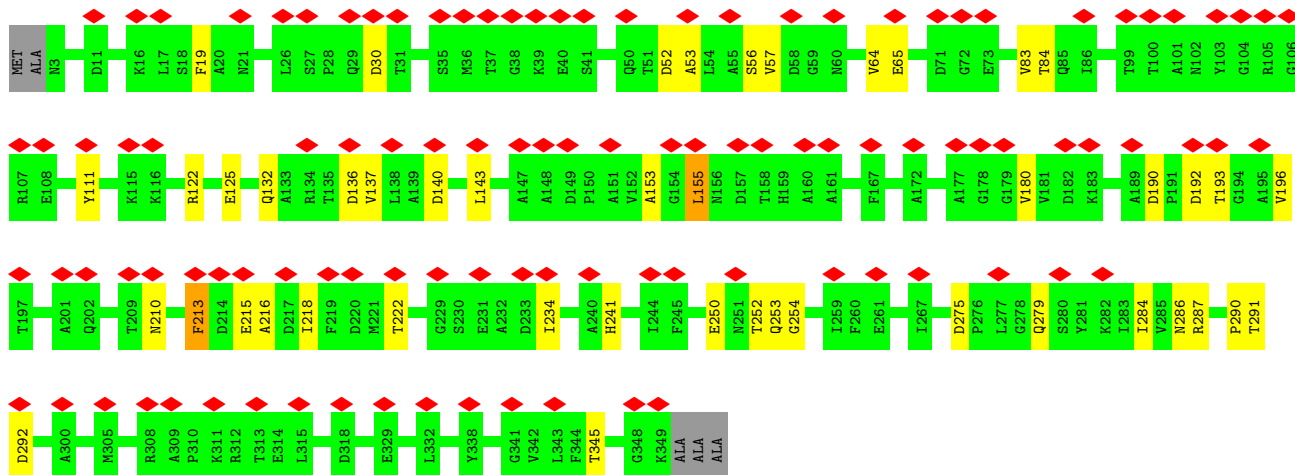
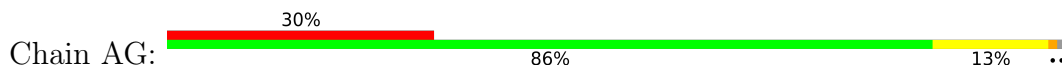




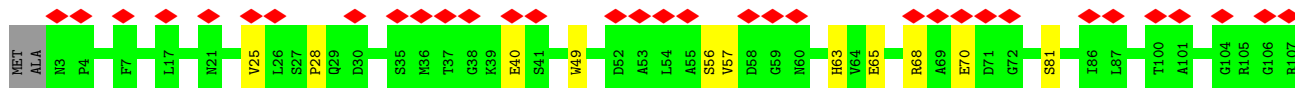
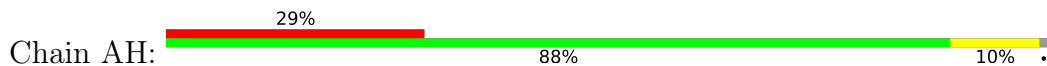
• Molecule 1: Major head protein

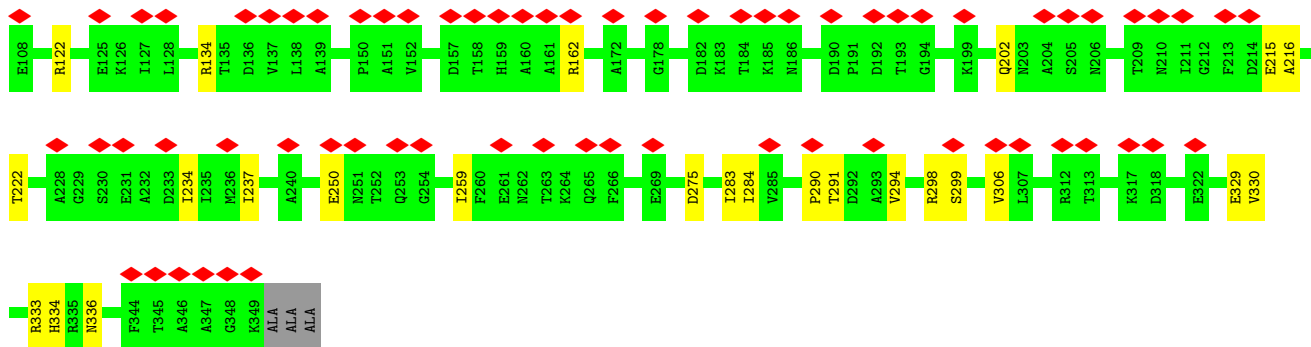


• Molecule 1: Major head protein

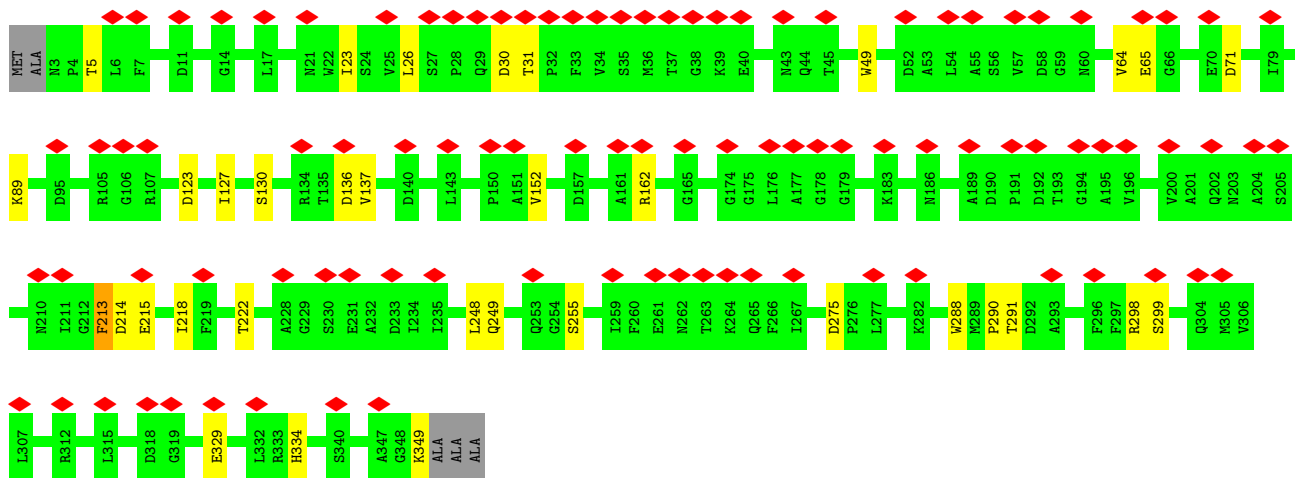
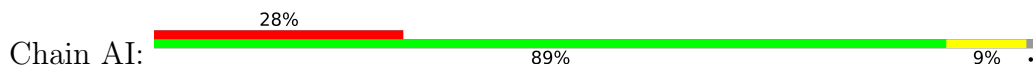


• Molecule 1: Major head protein

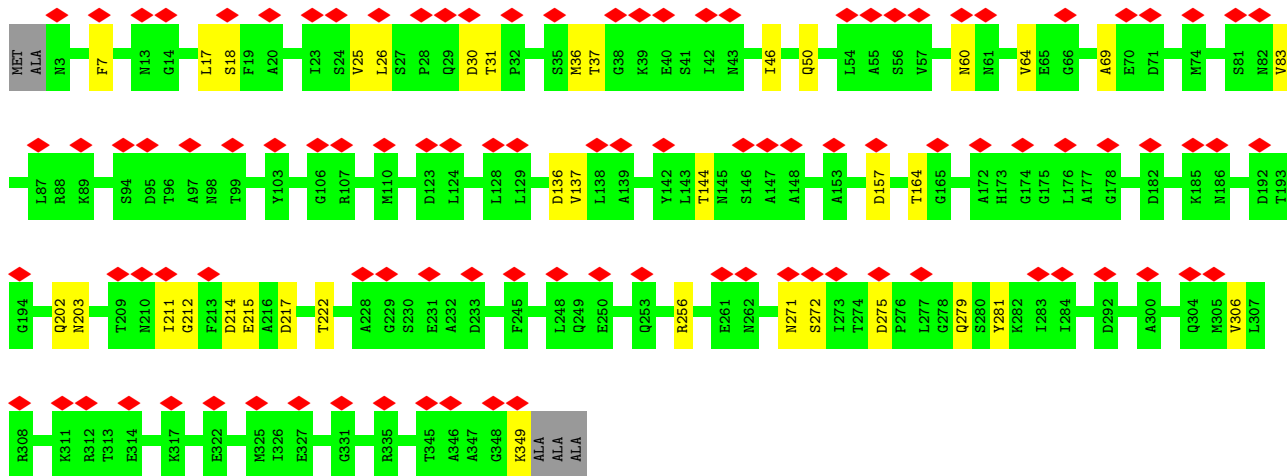
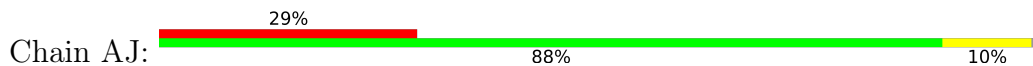




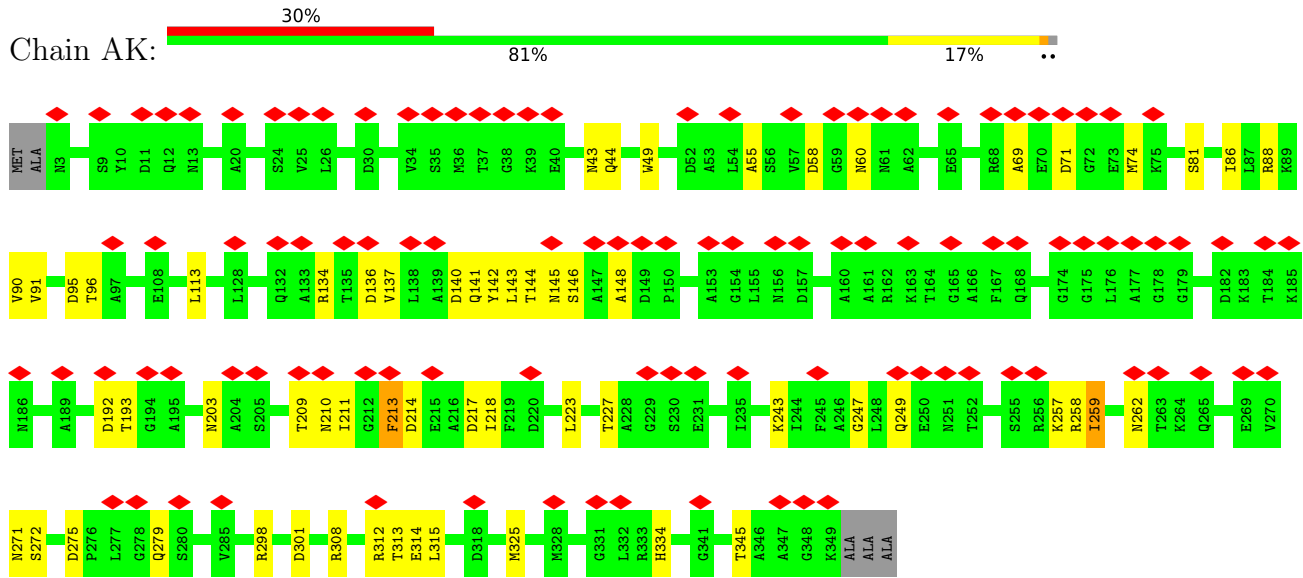
• Molecule 1: Major head protein



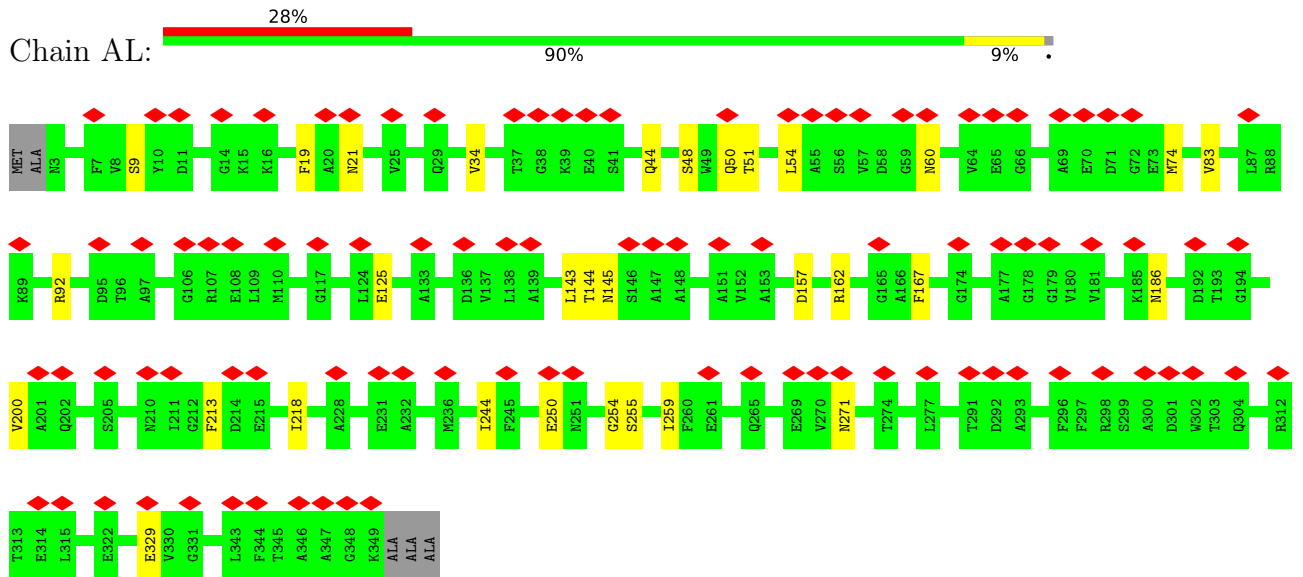
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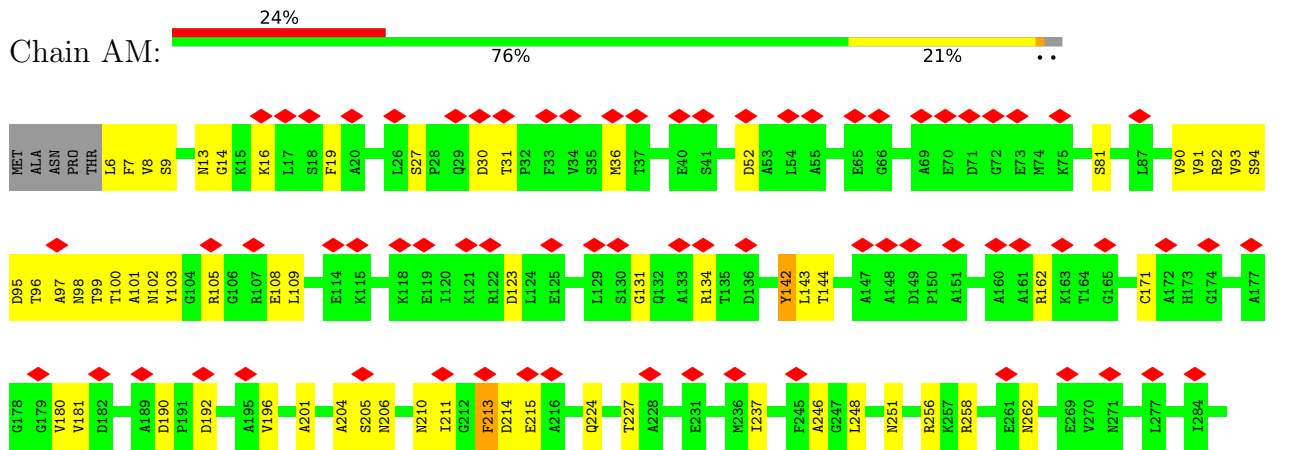
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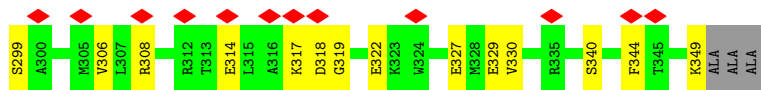


• Molecule 1: Major head protein

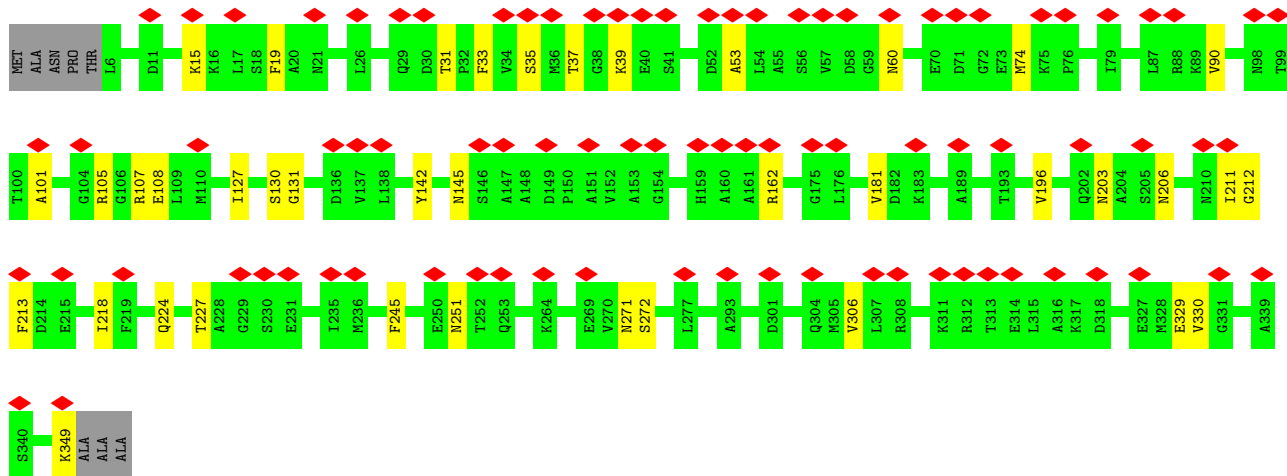
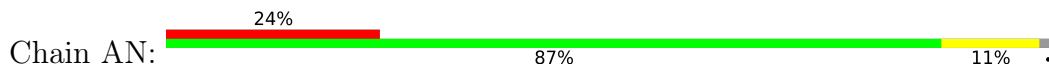


• Molecule 1: Major head protein

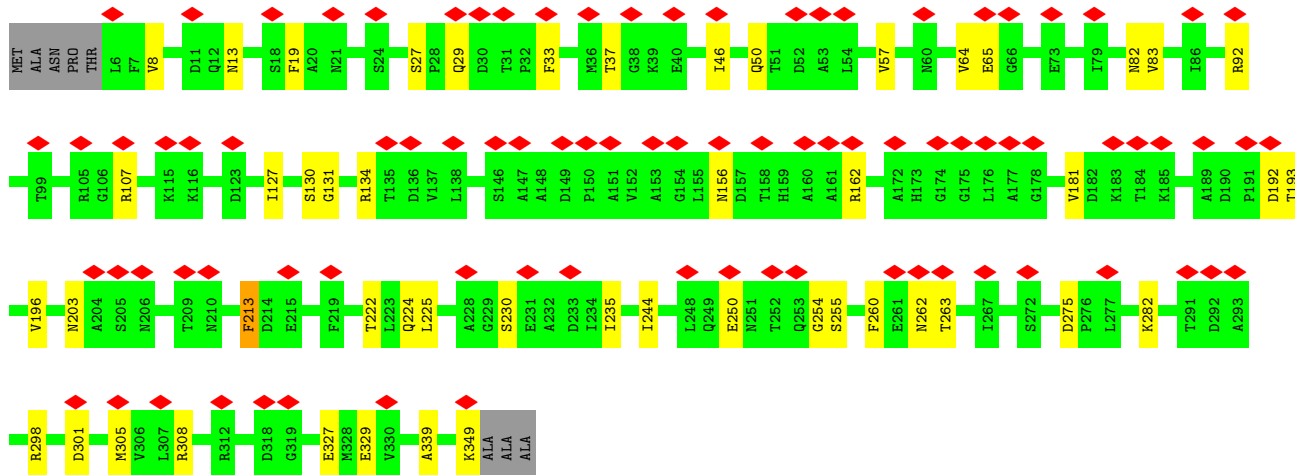
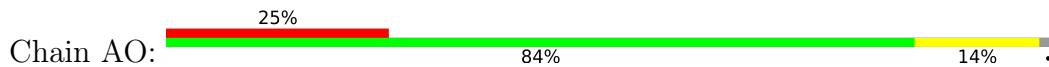




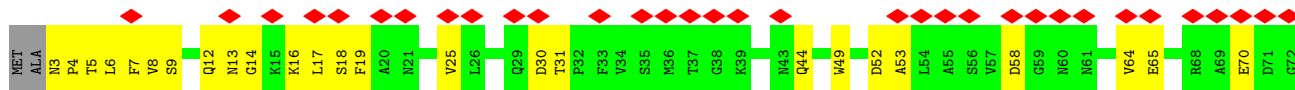
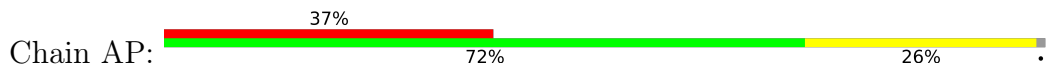
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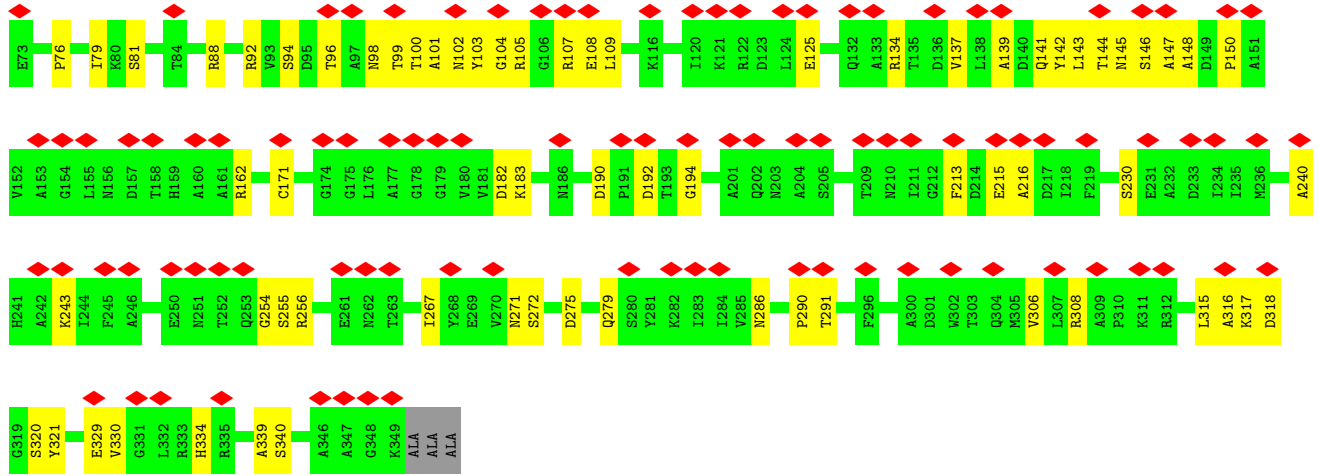


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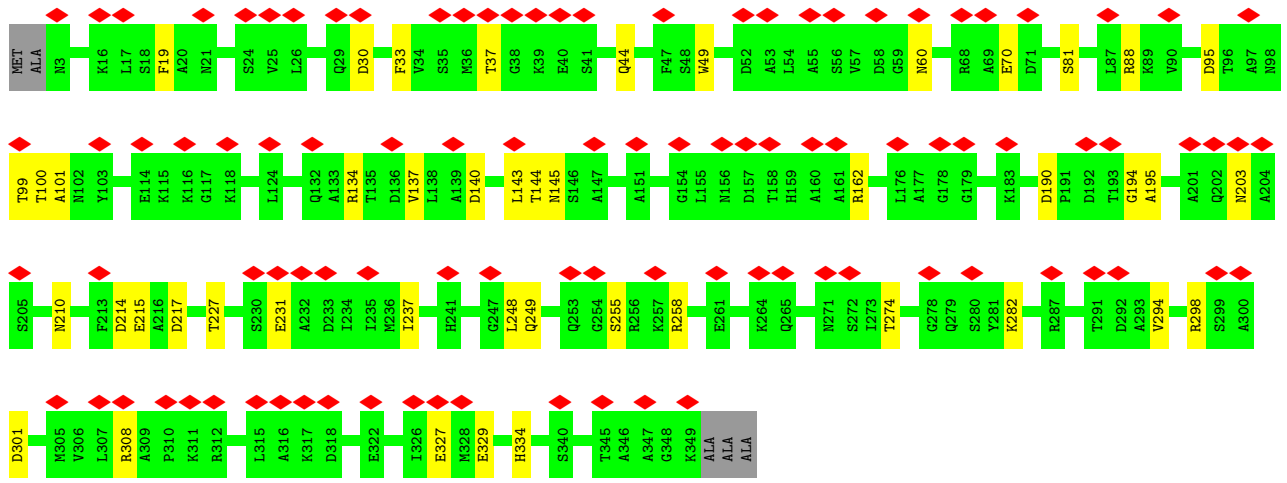
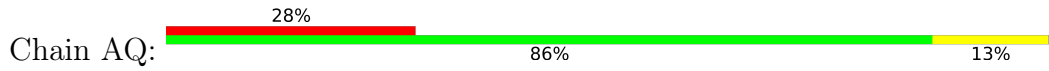


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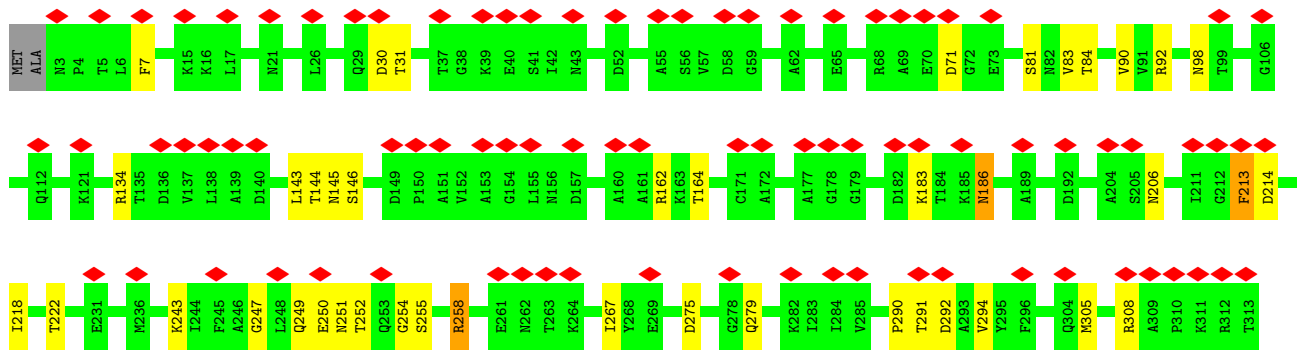
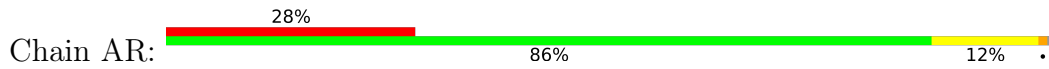


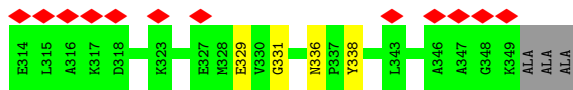


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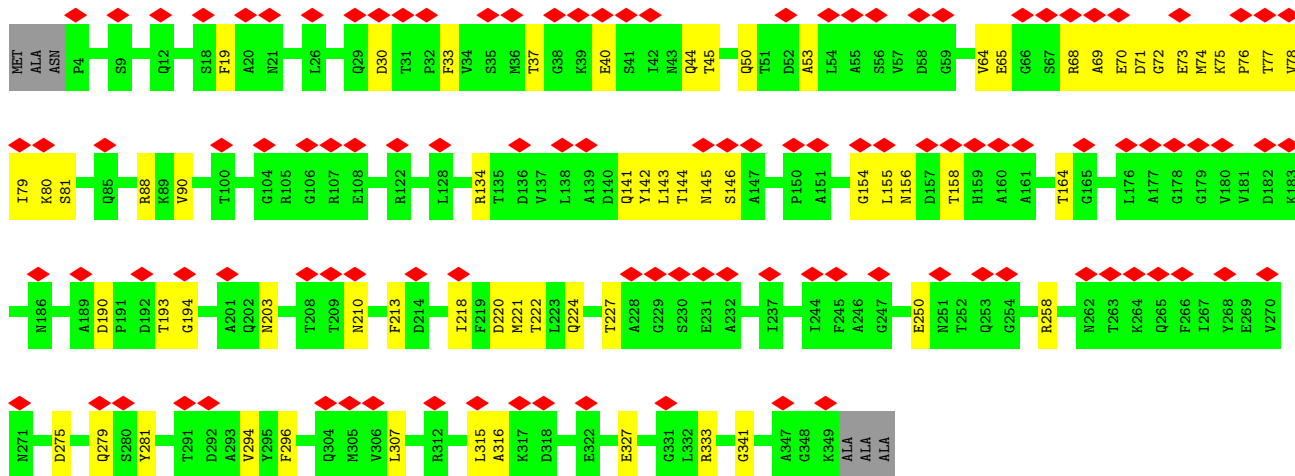
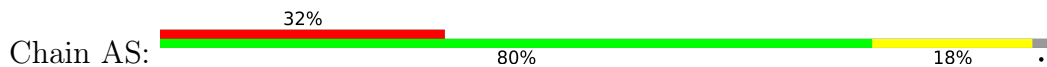


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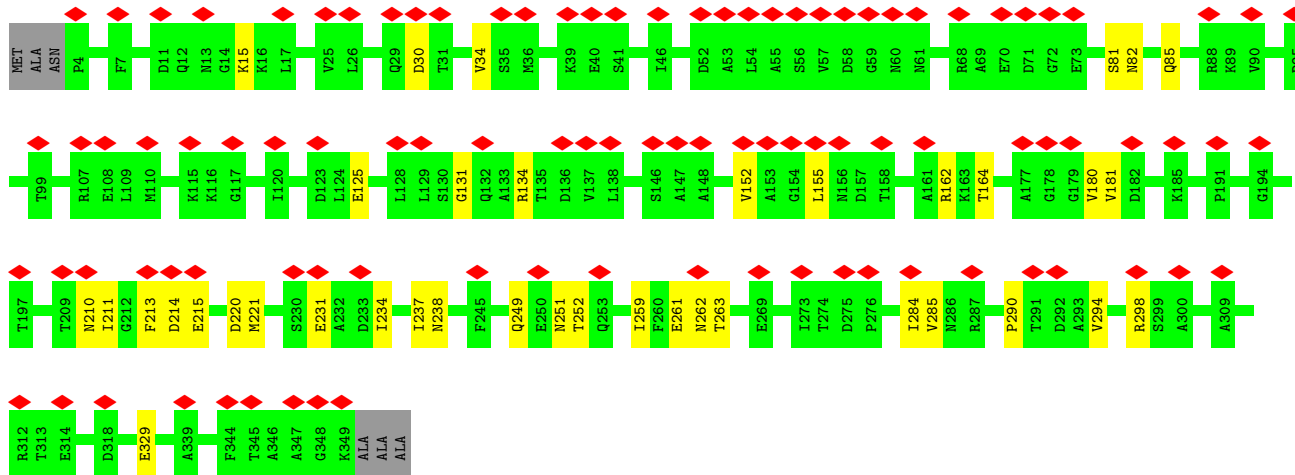
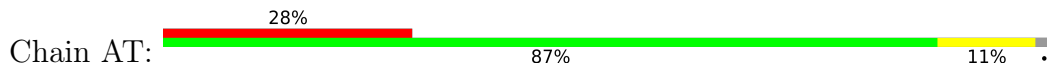




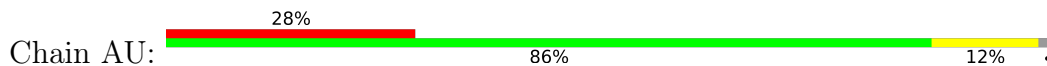
• Molecule 1: Major head protein

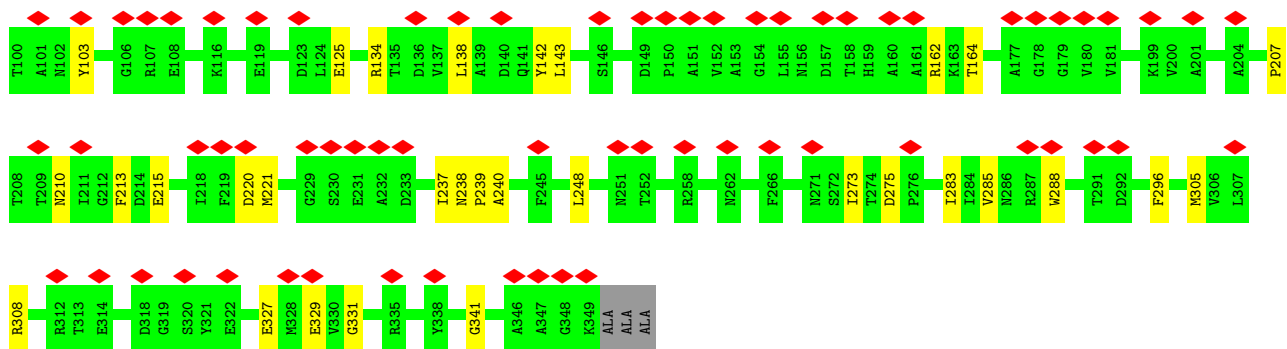


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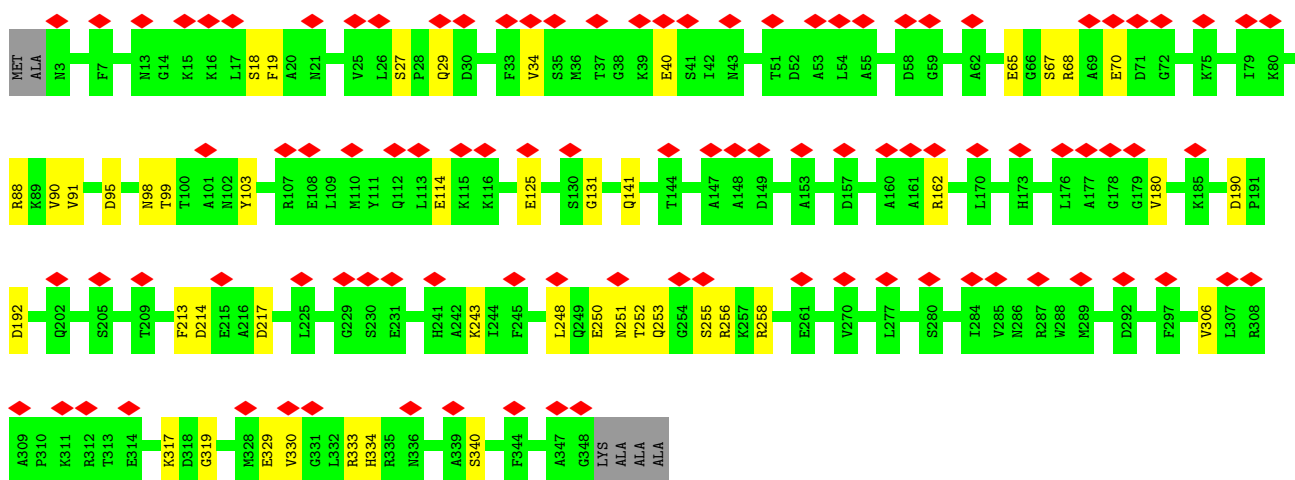
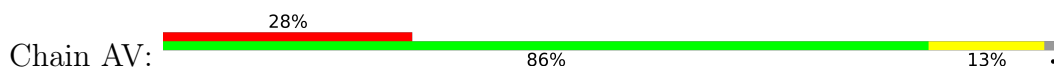


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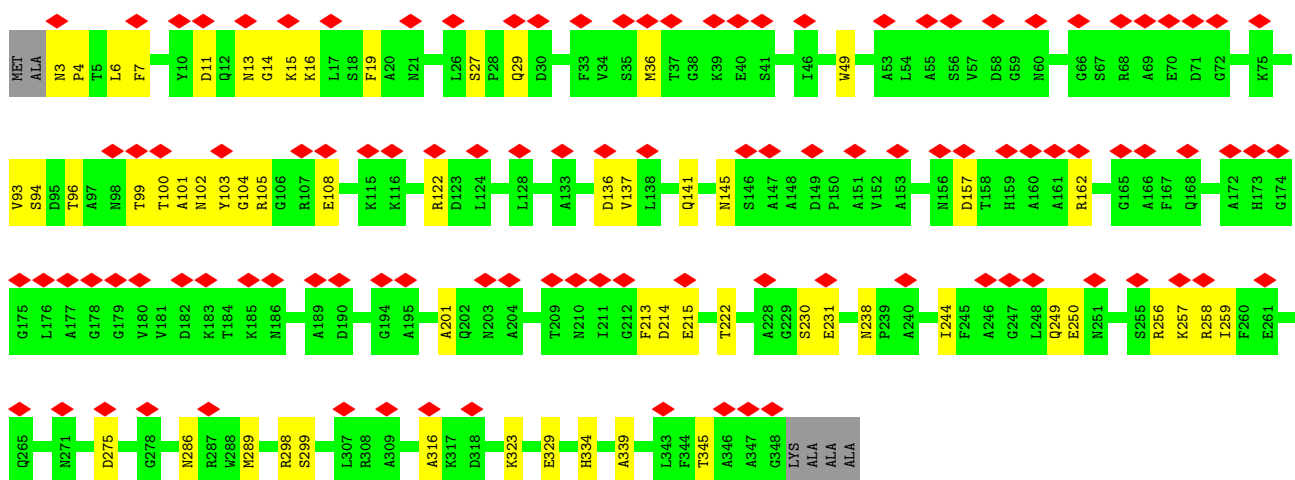
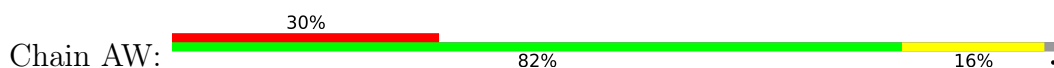




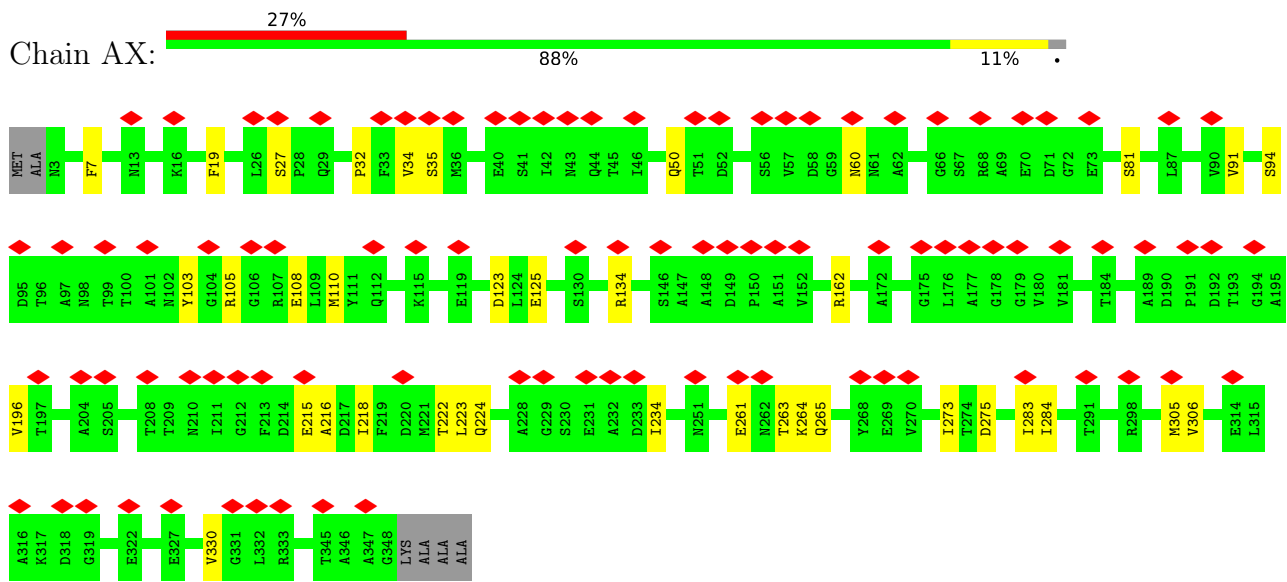
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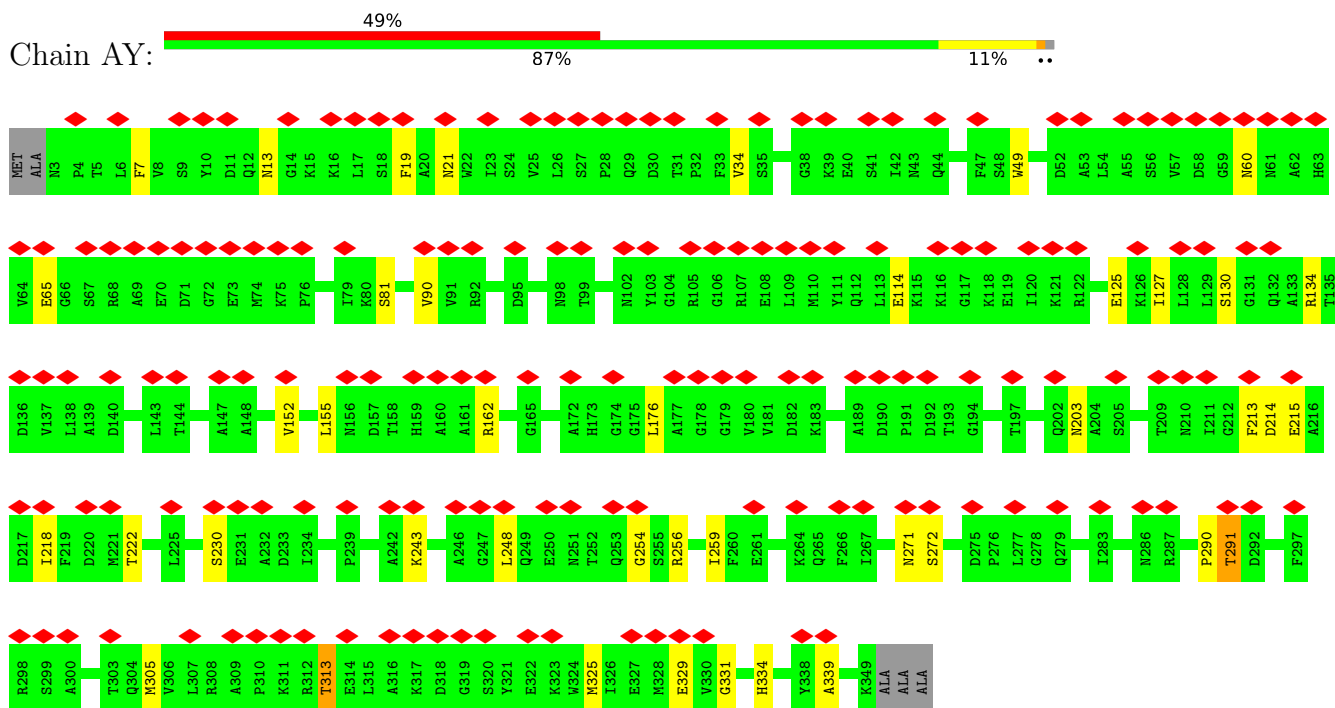
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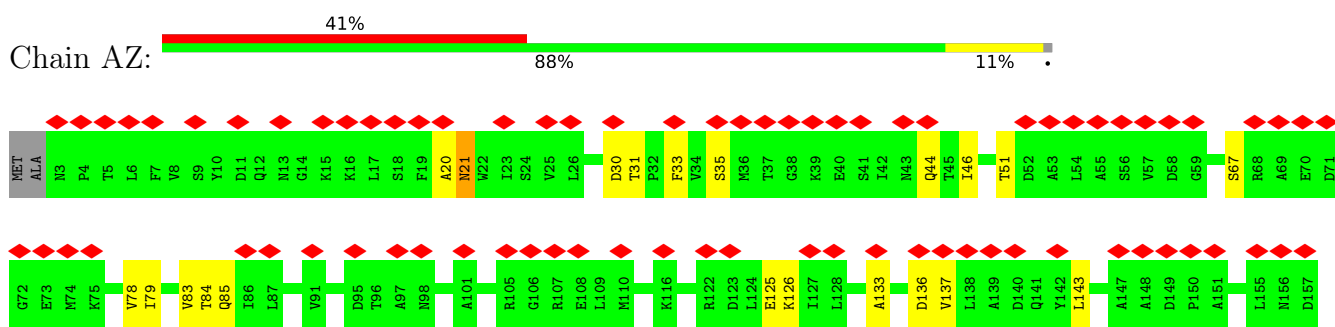
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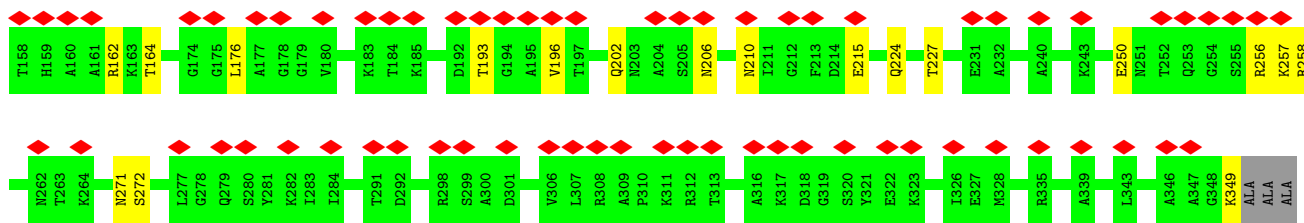


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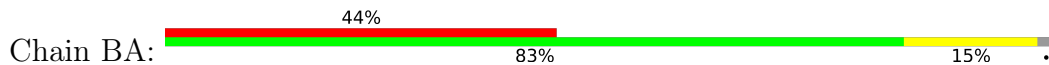


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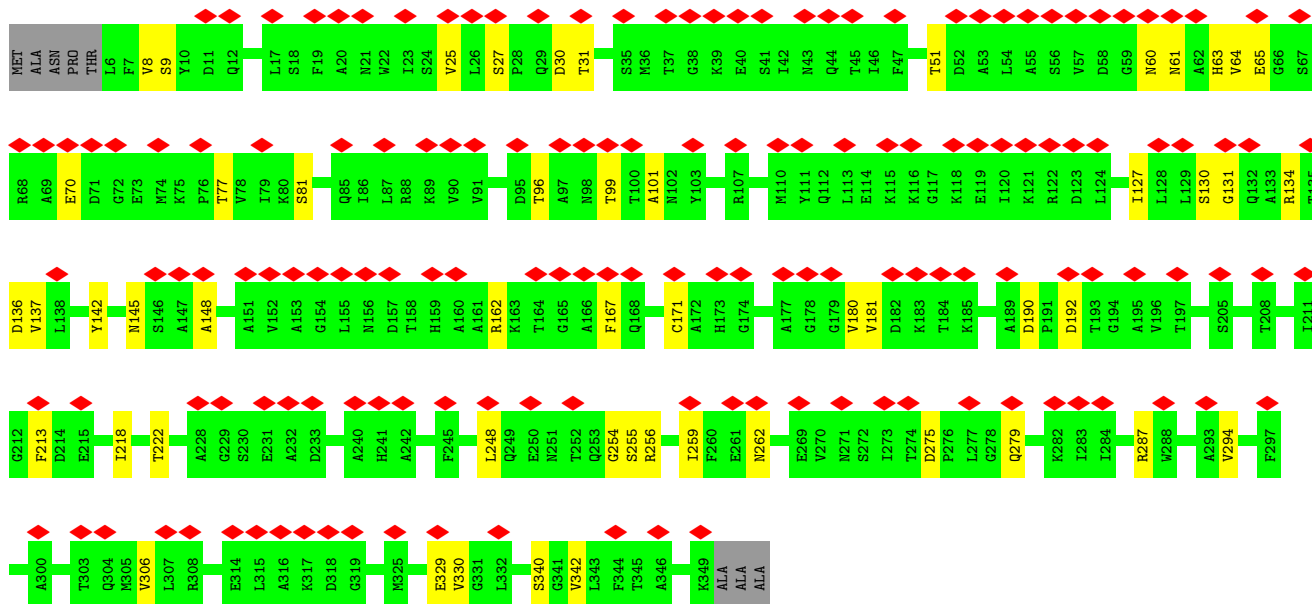




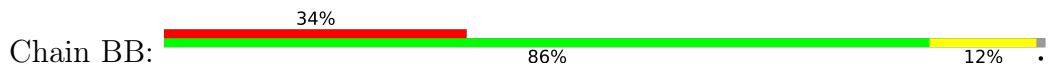
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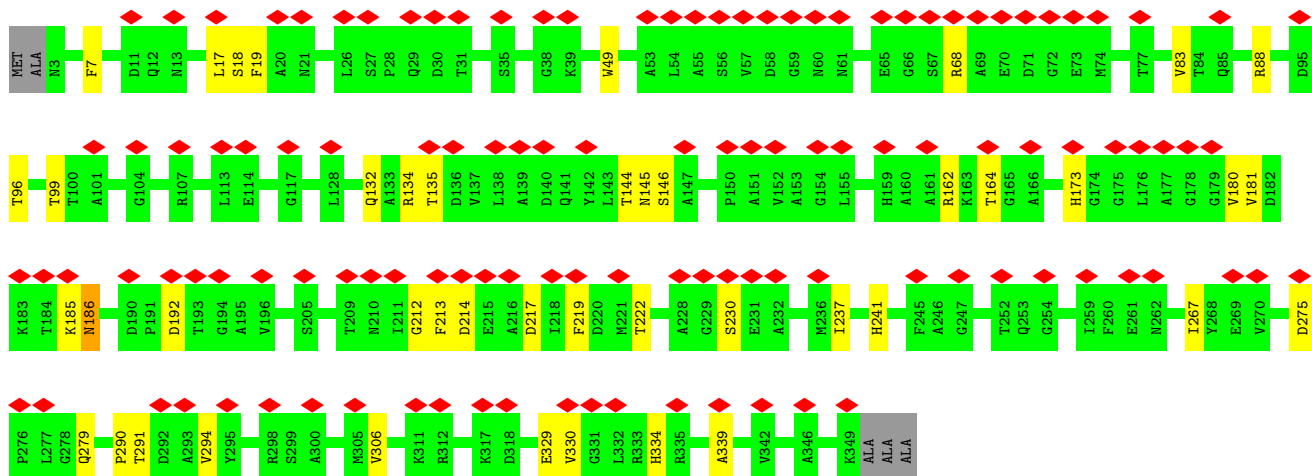
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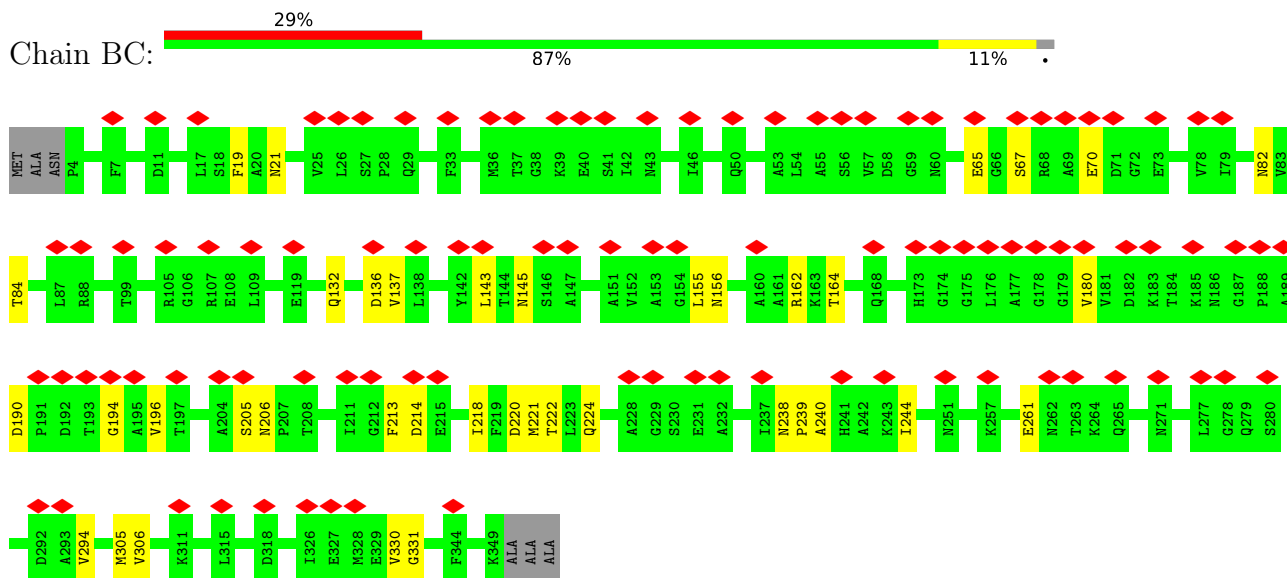
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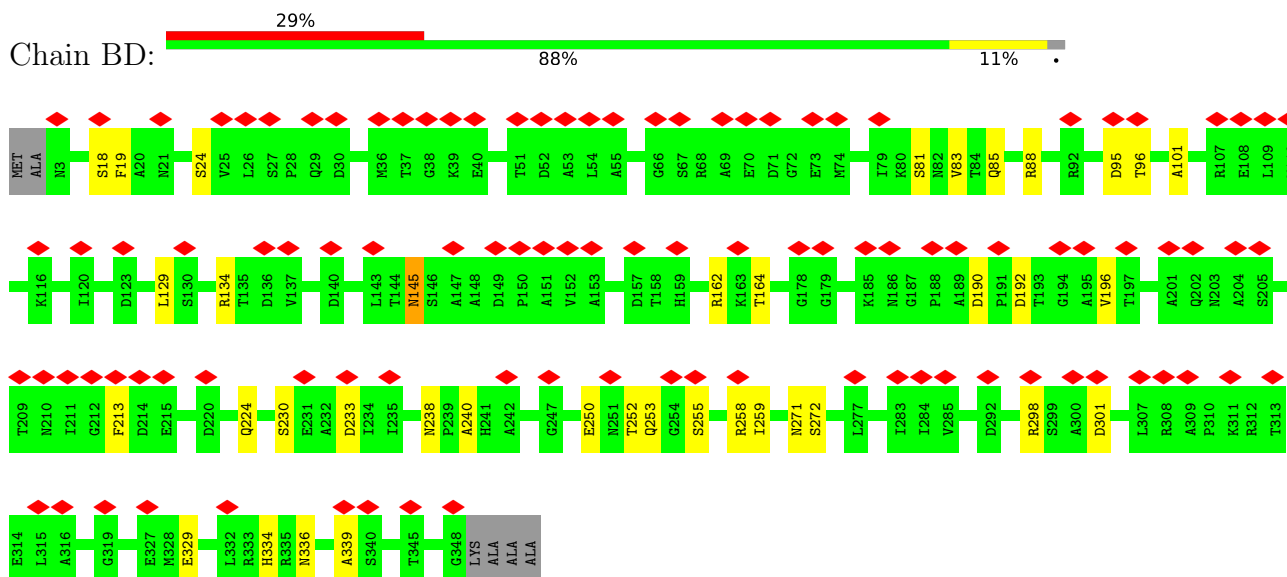
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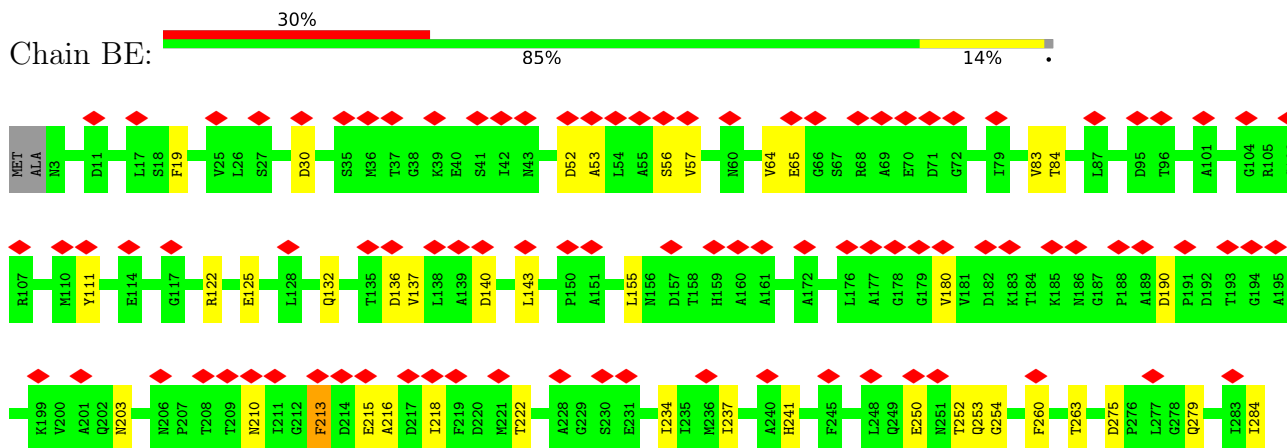
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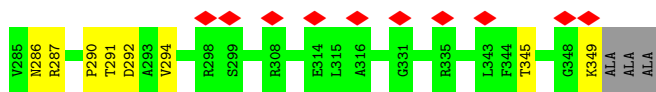


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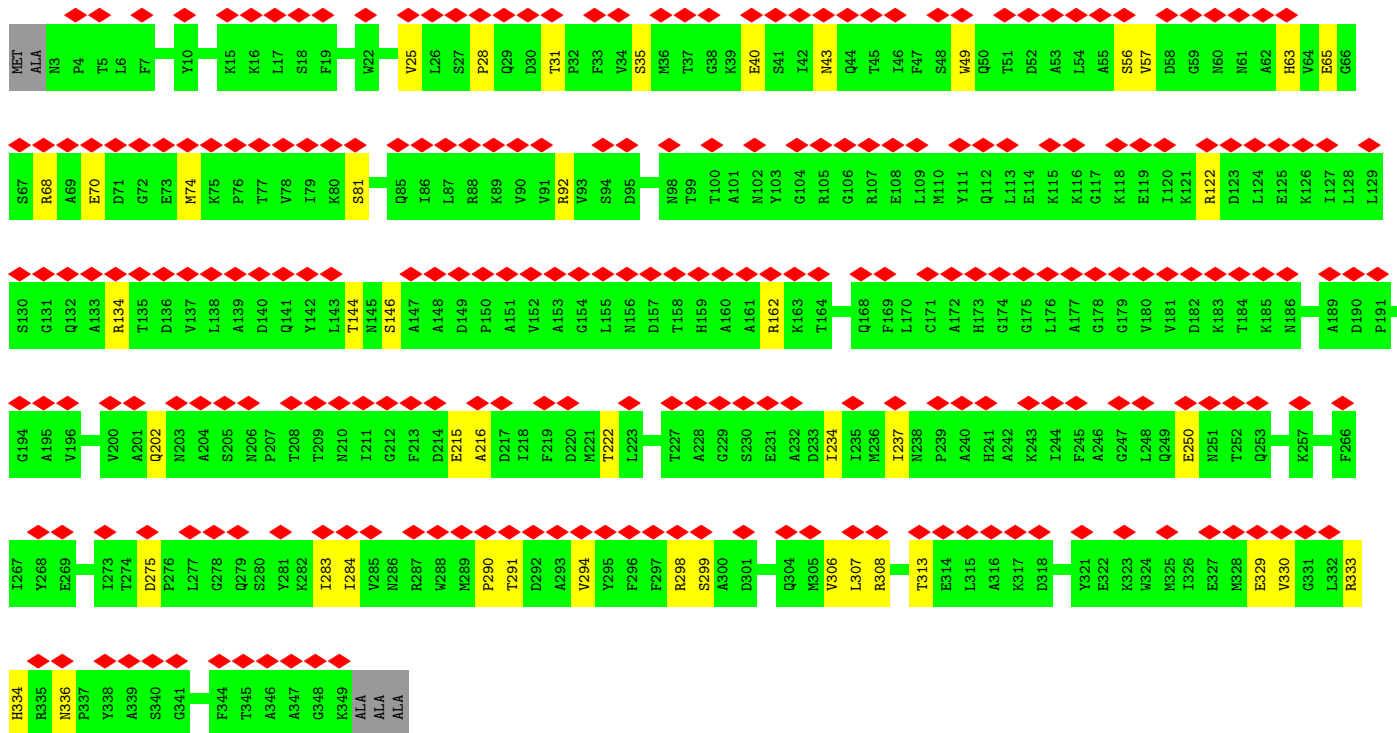
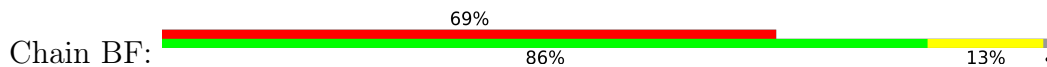


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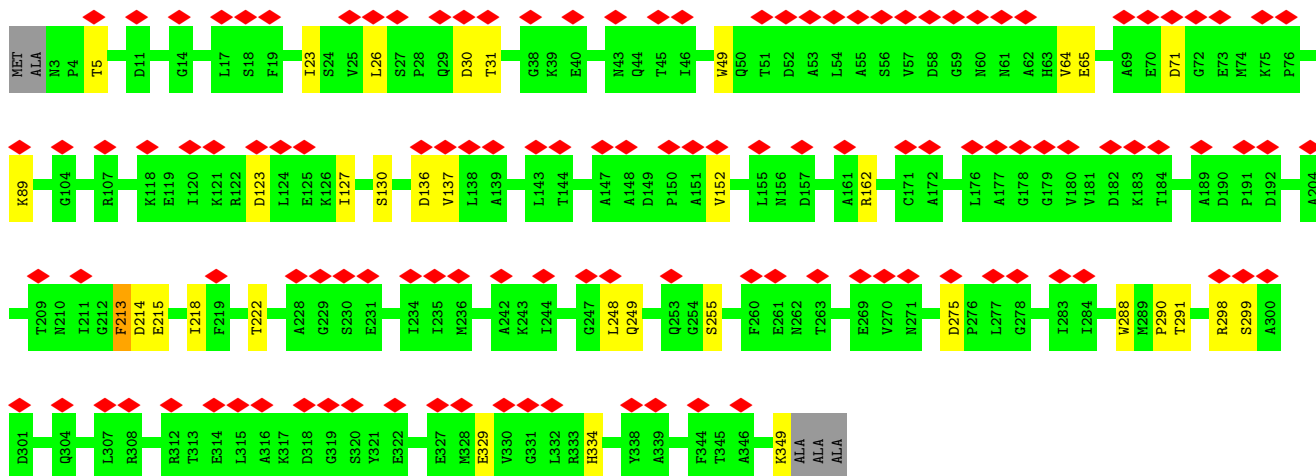
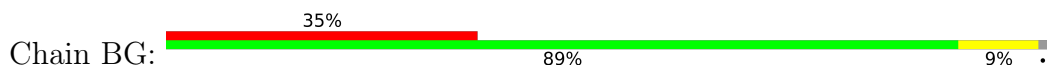




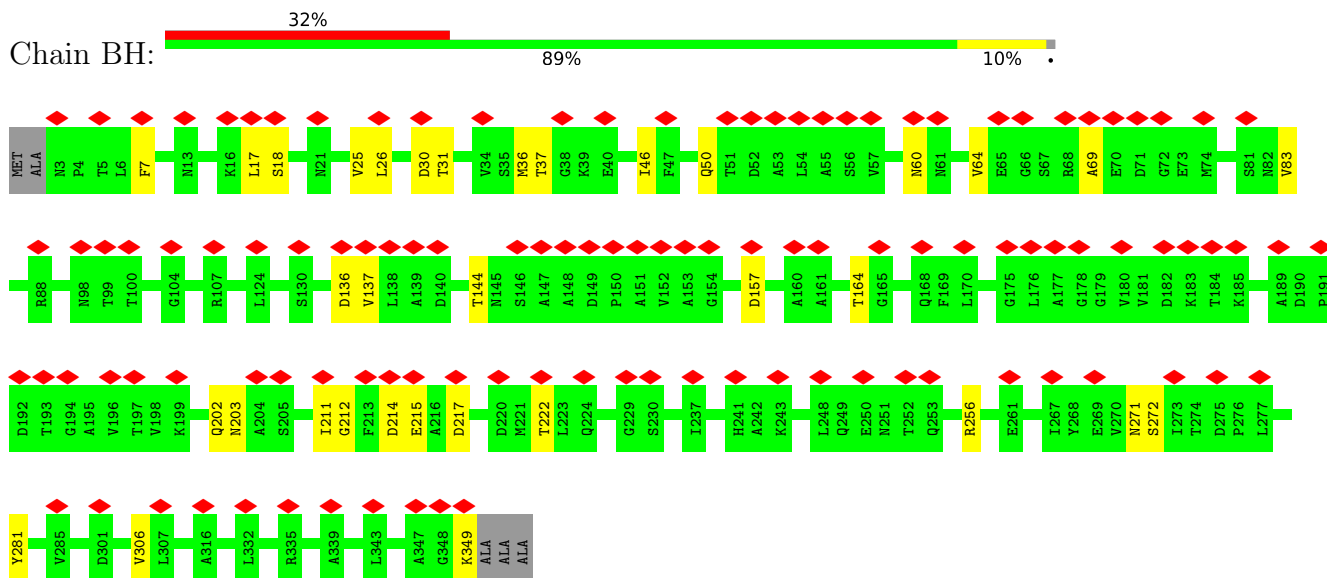
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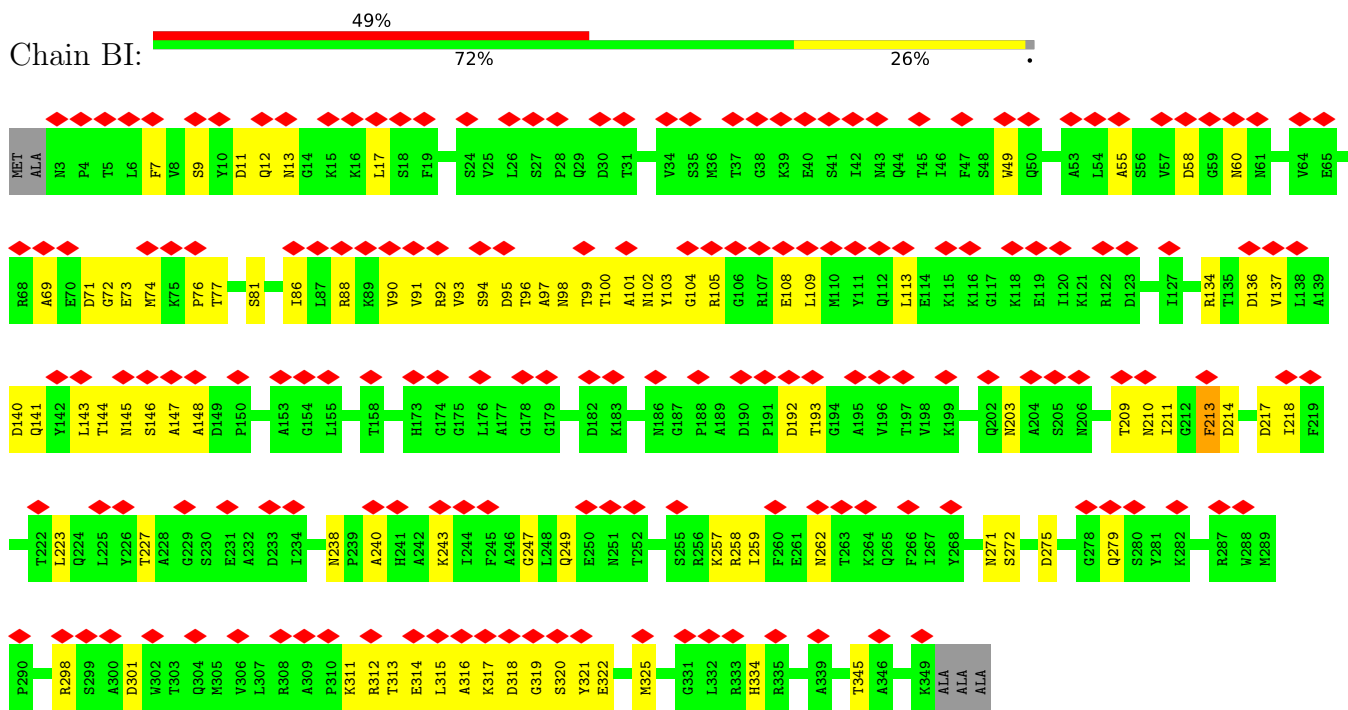
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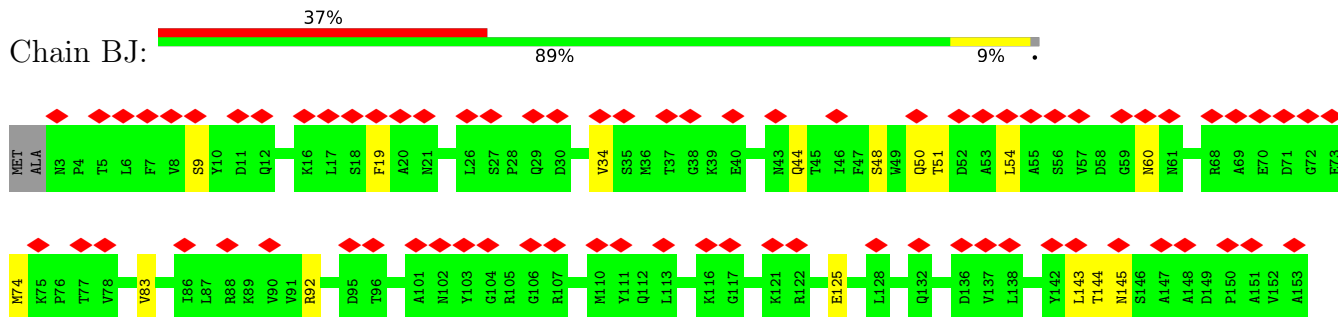
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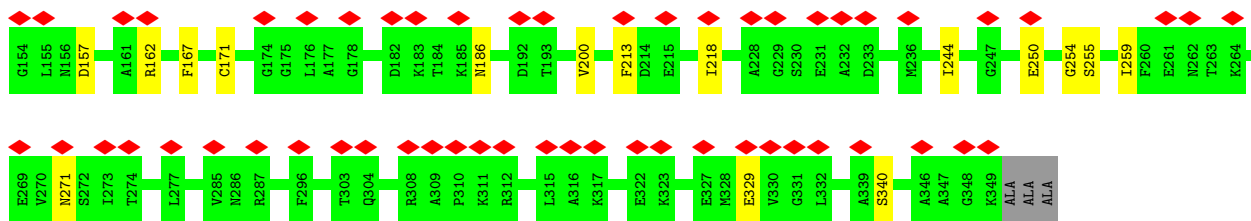


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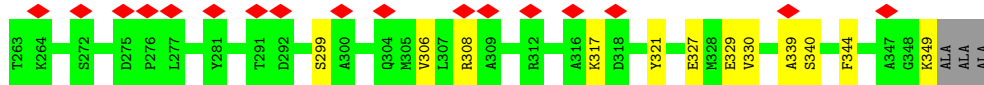
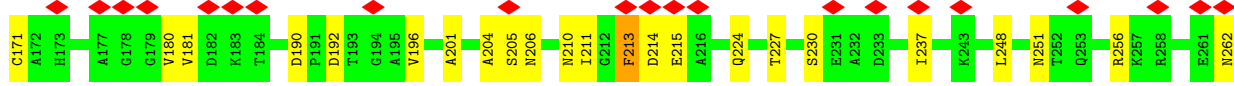
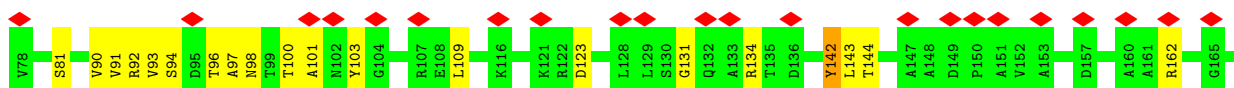
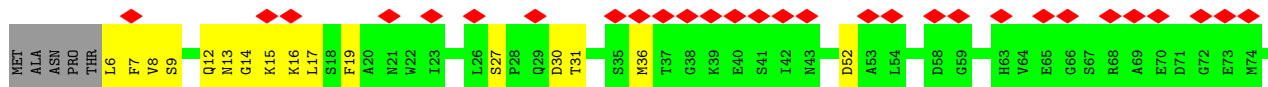
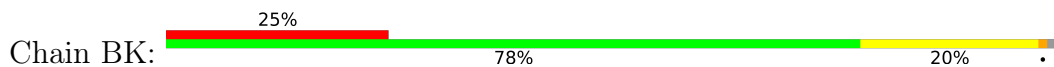


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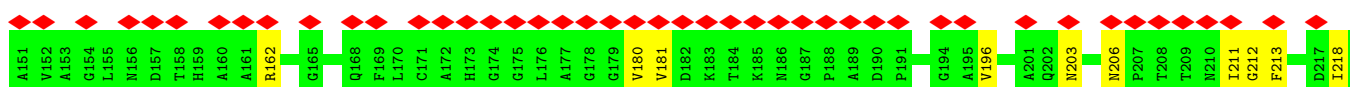
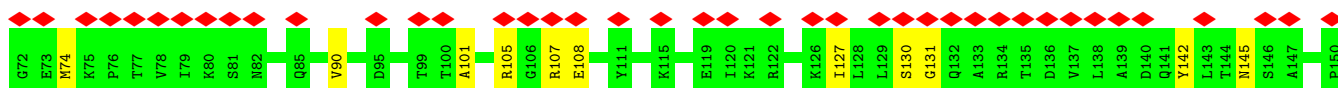
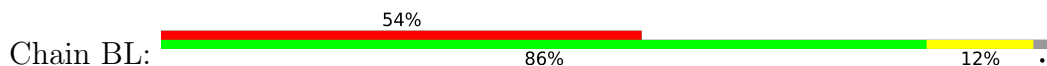




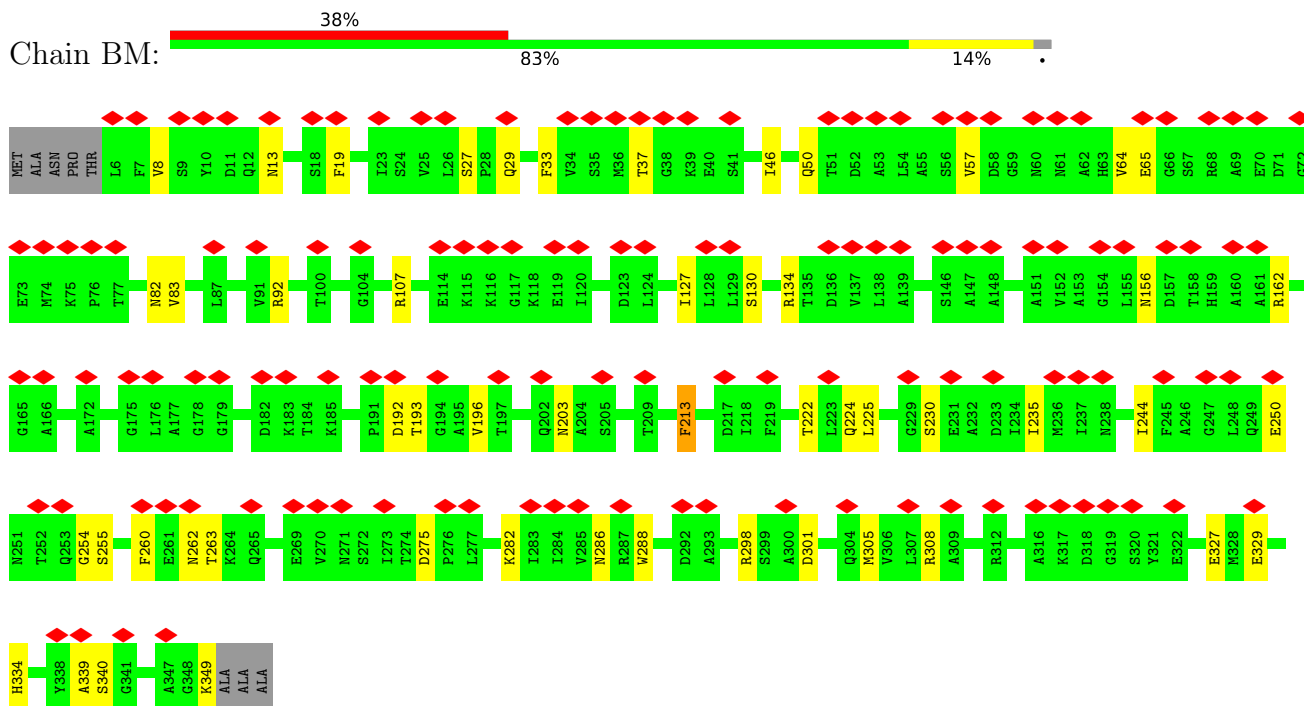
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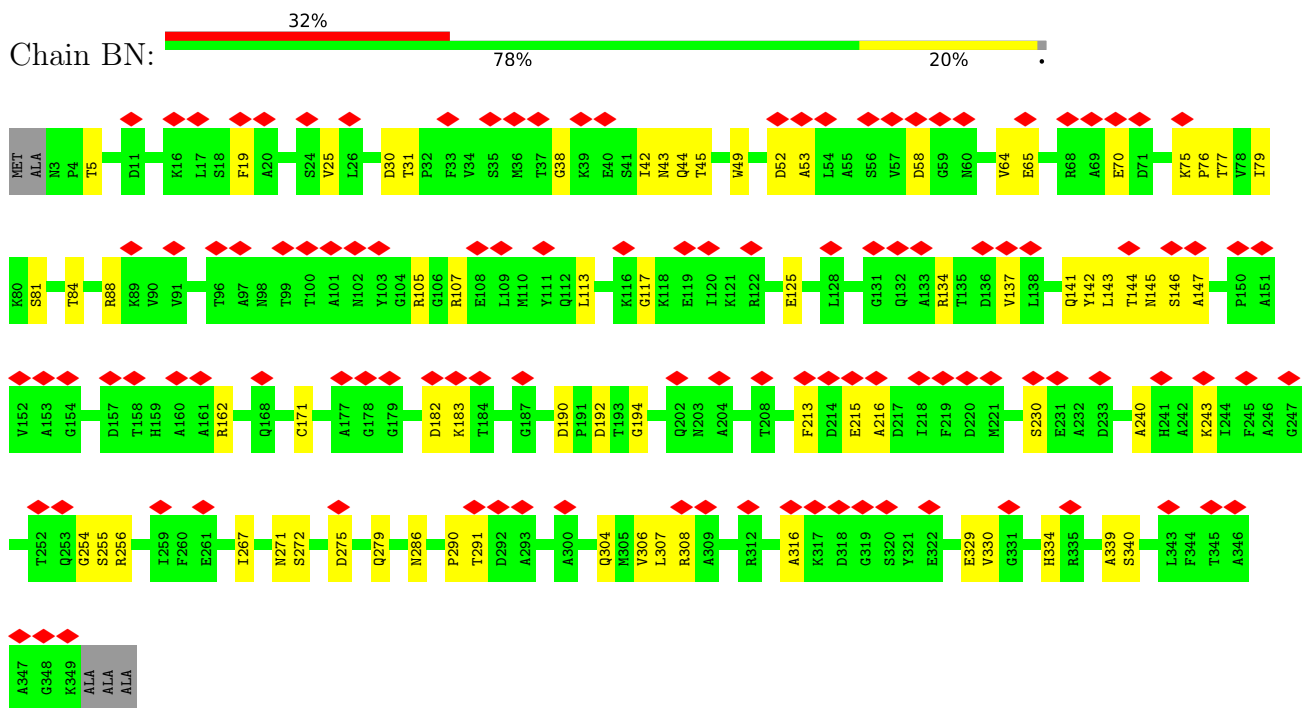
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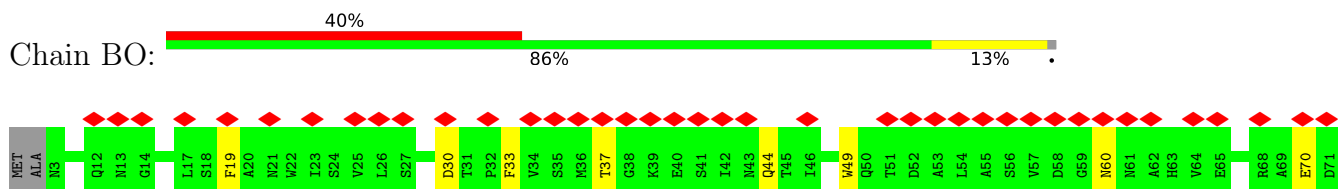
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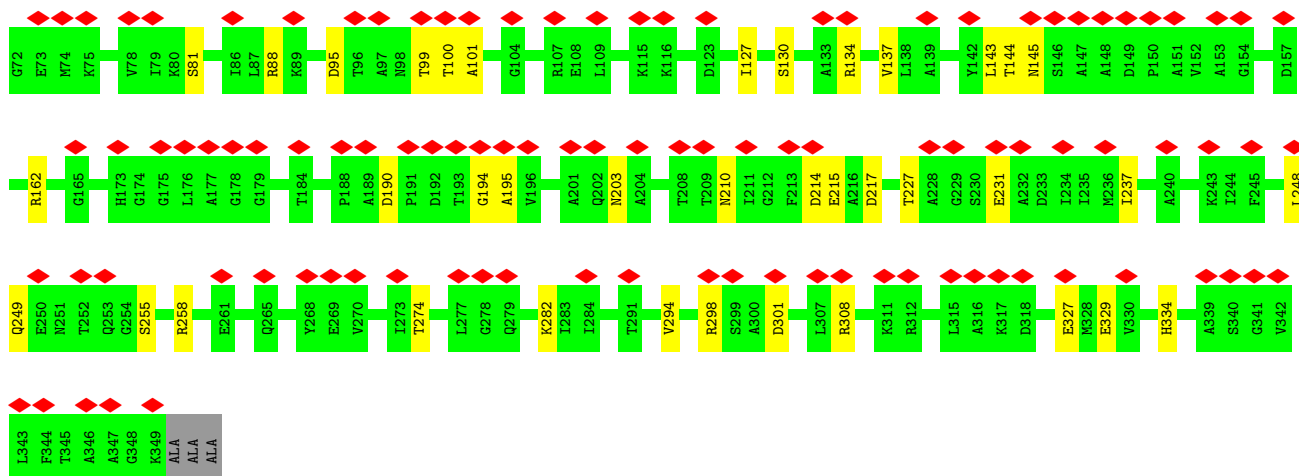


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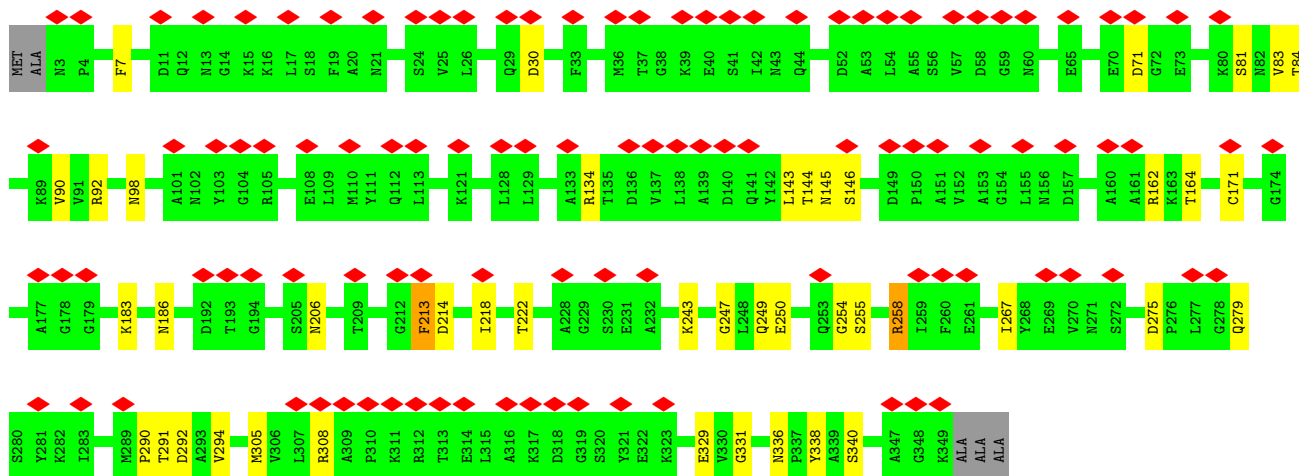
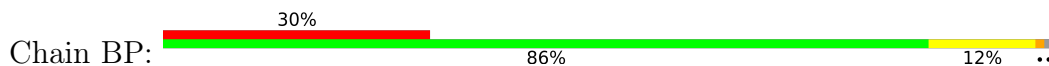


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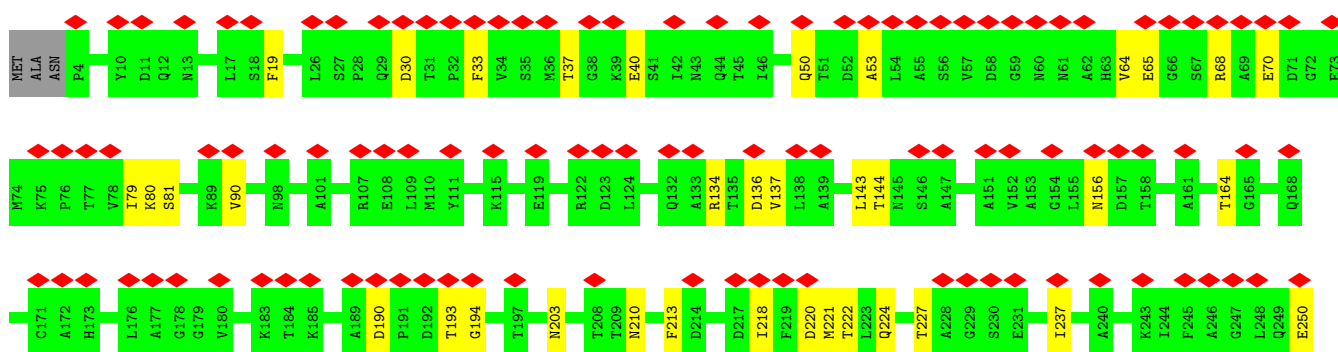
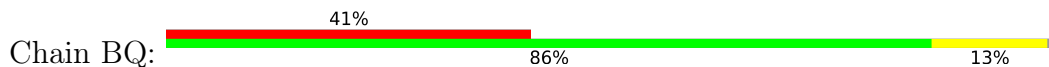


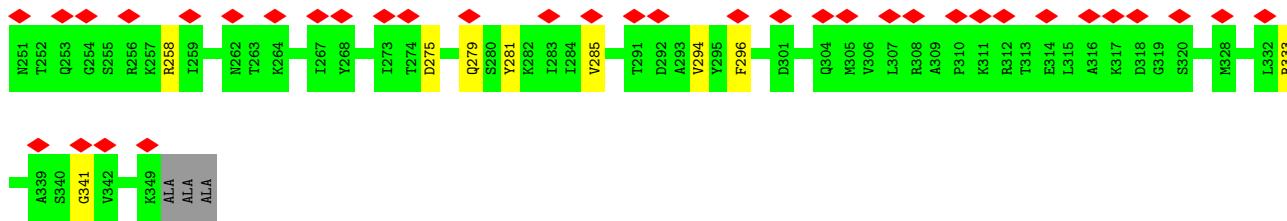


• Molecule 1: Major head protein

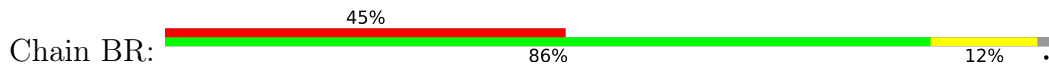


• Molecule 1: Major head protein

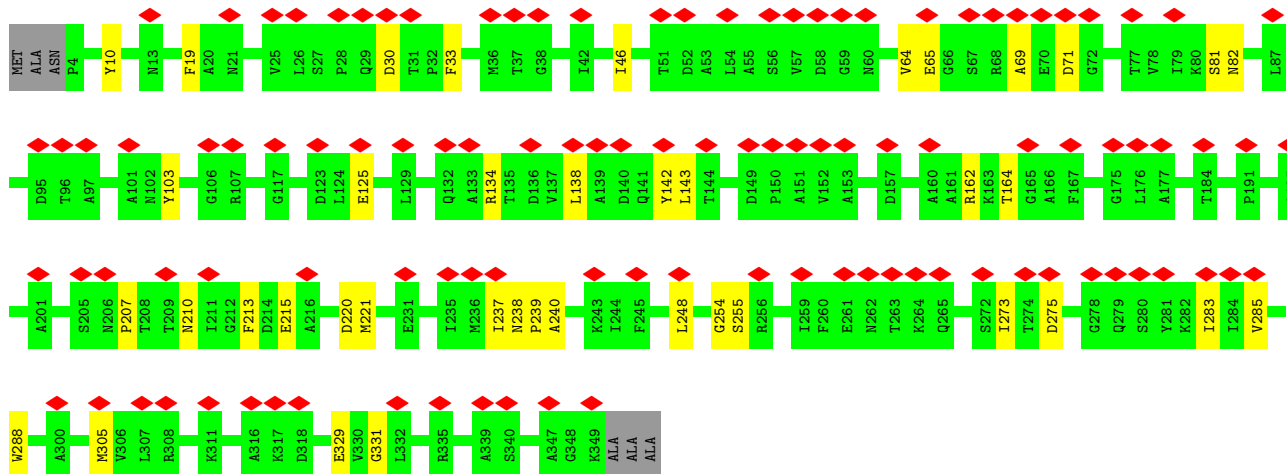
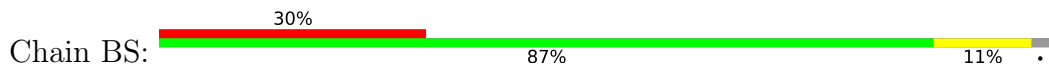




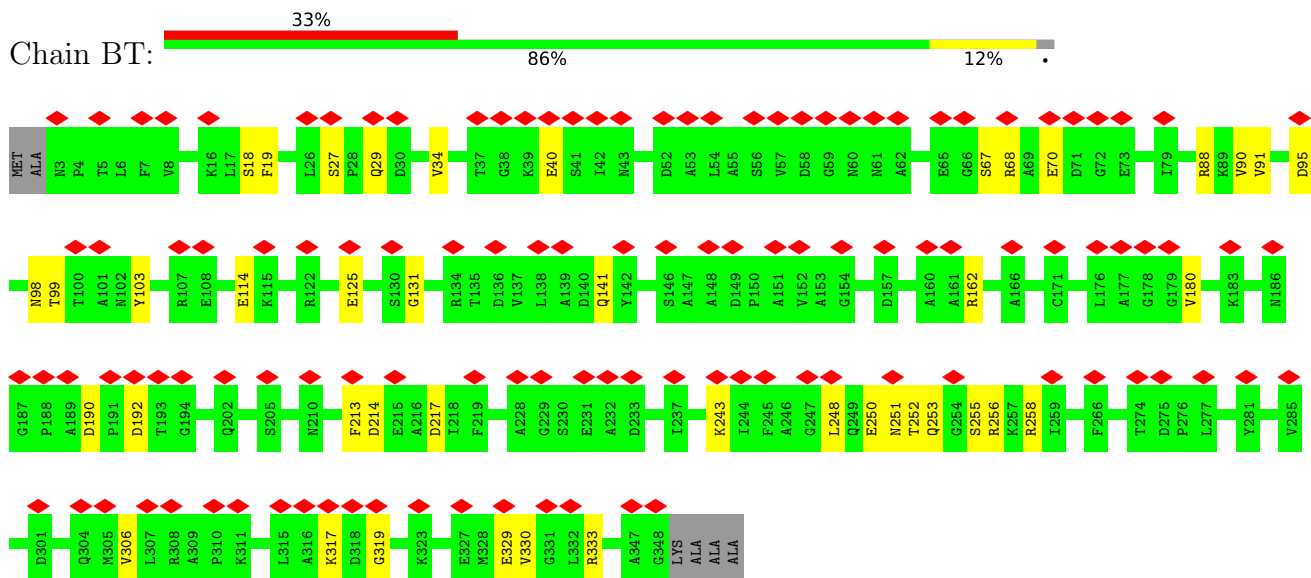
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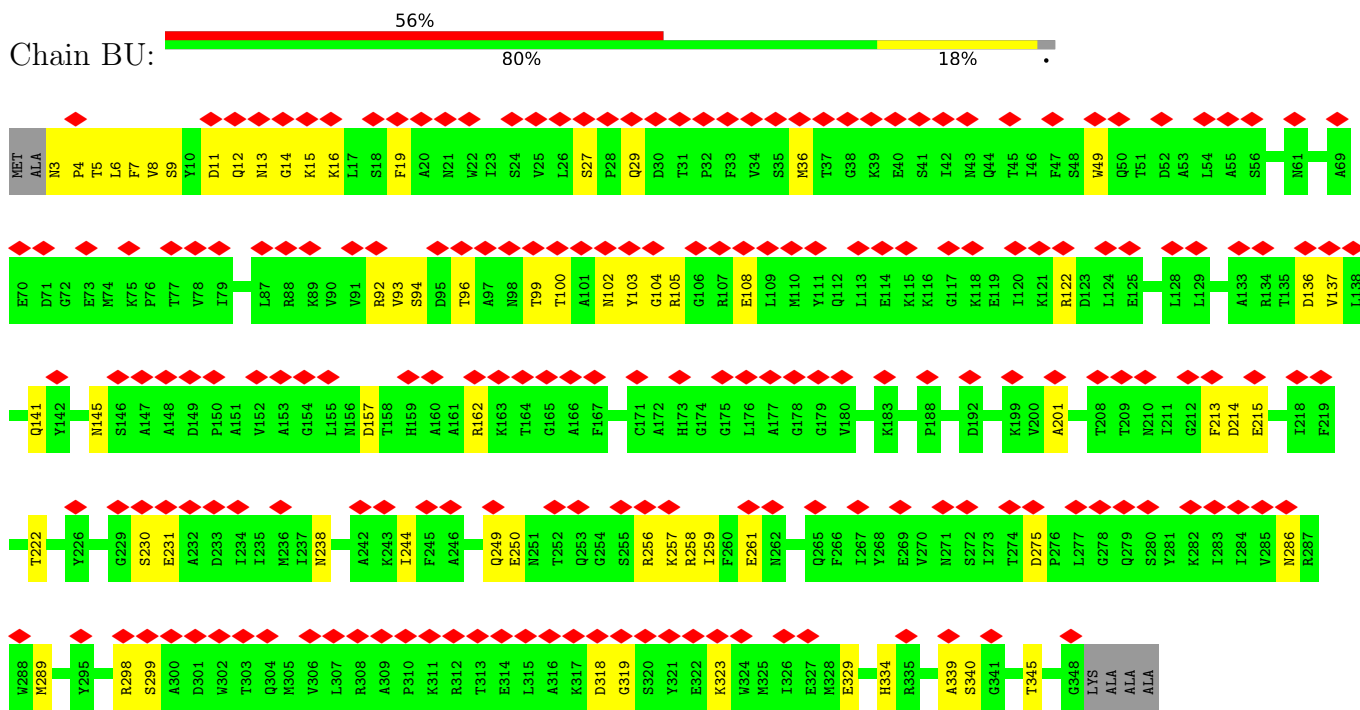
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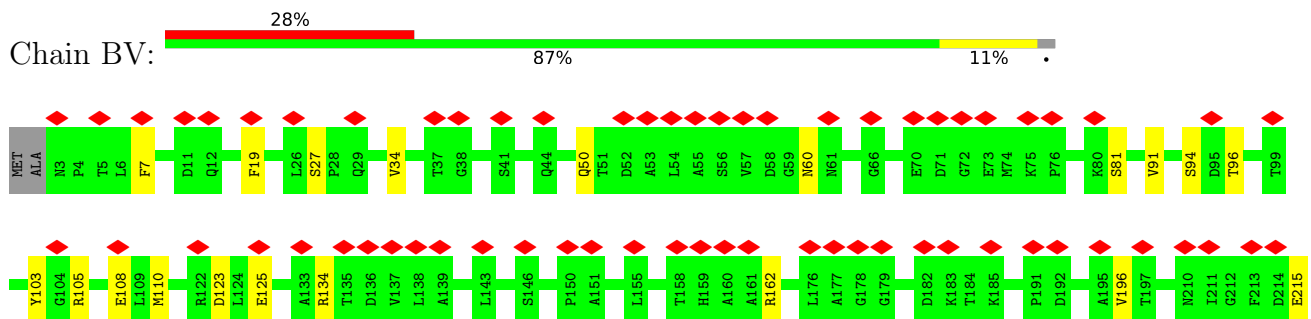
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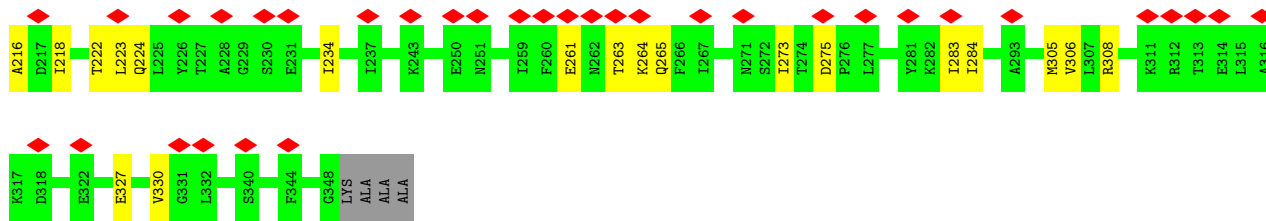


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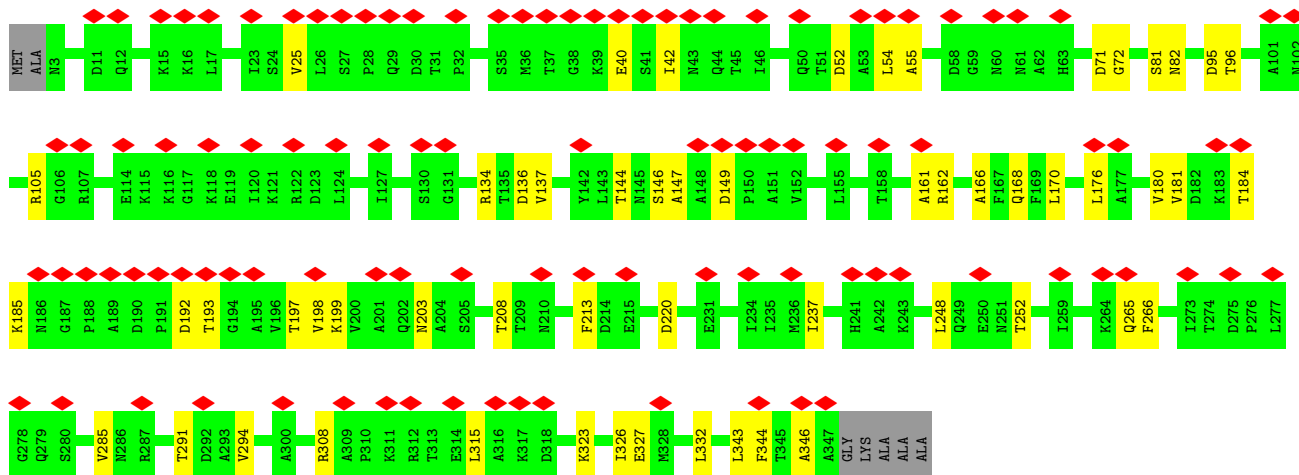
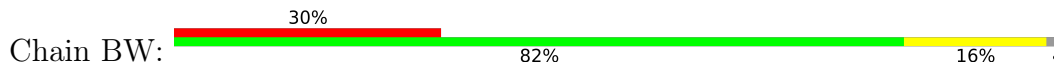


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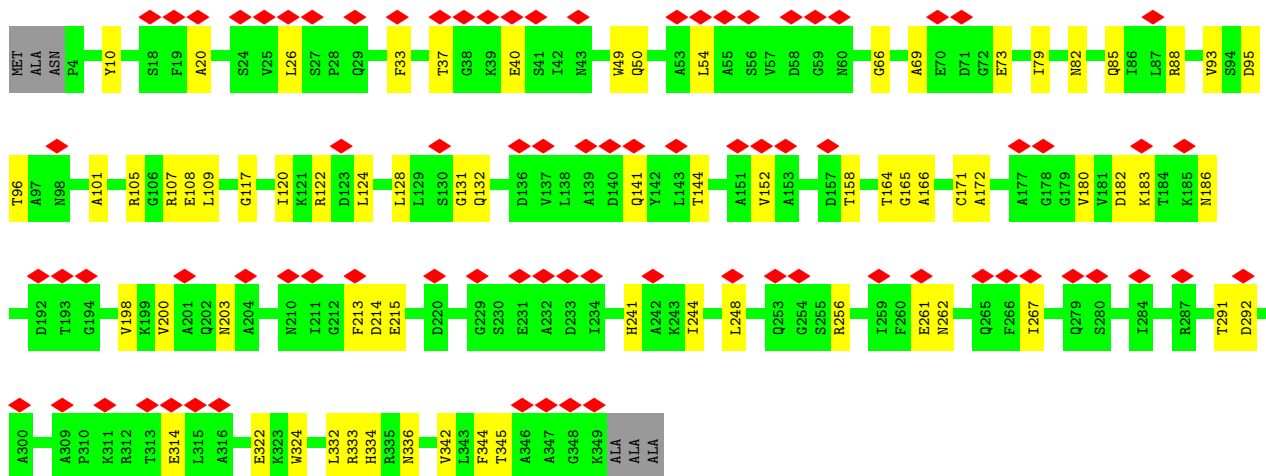
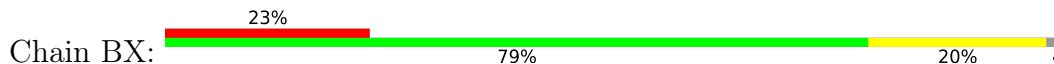




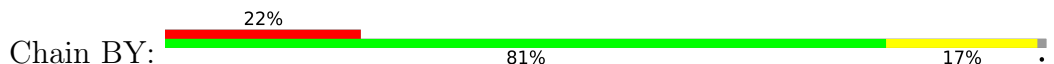
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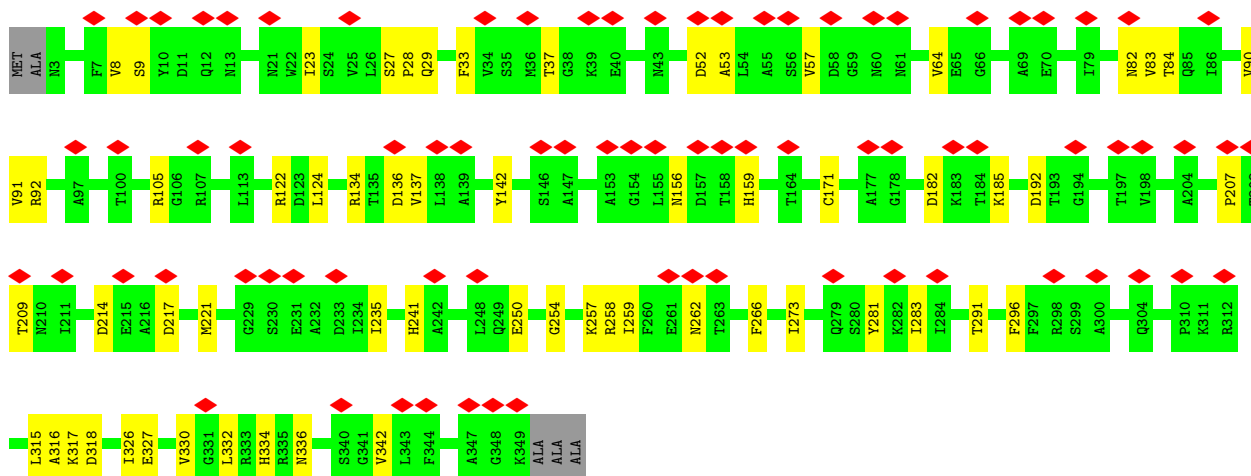


• Molecule 1: Major head protein

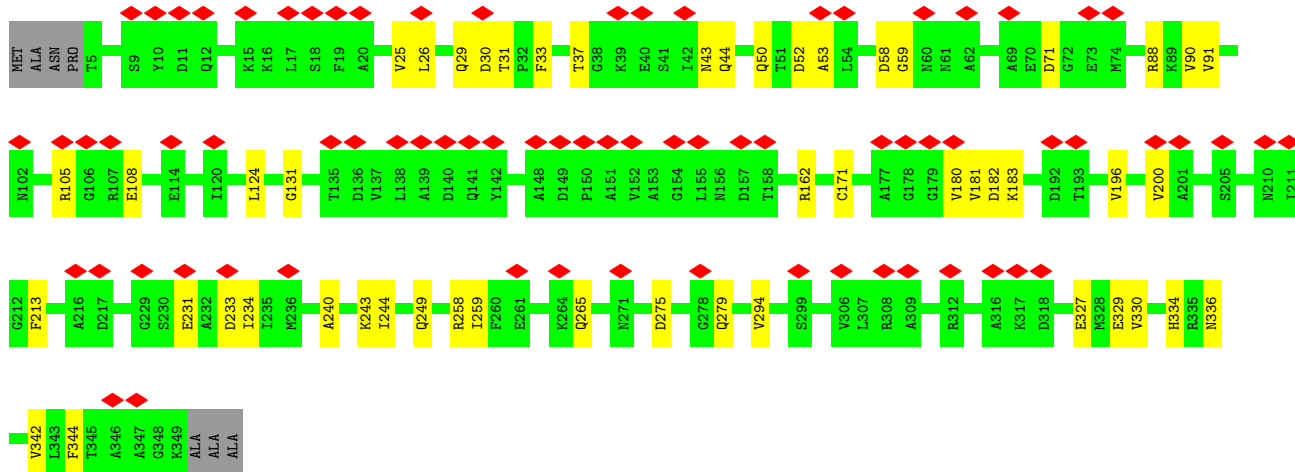
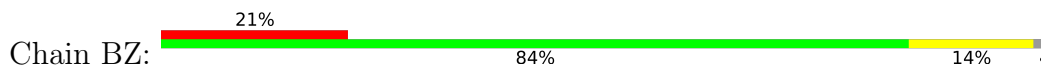


• Molecule 1: Major head protein

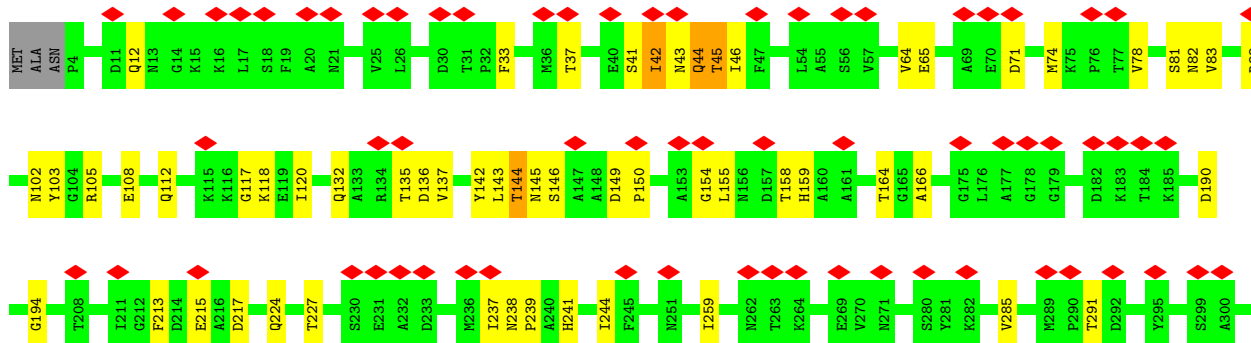
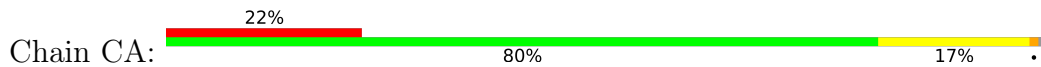


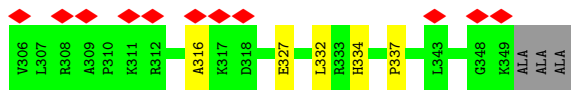


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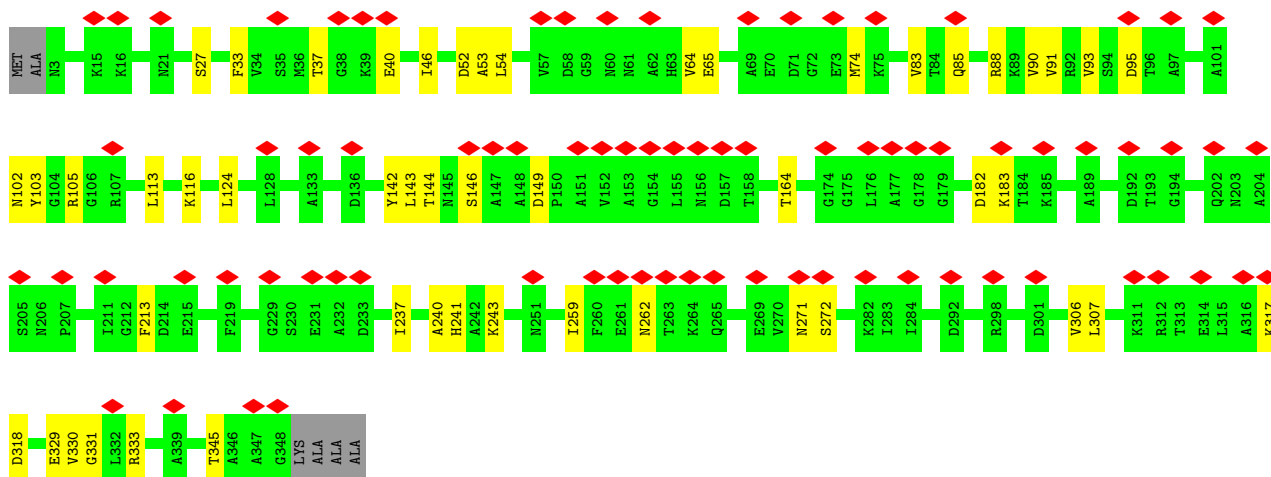
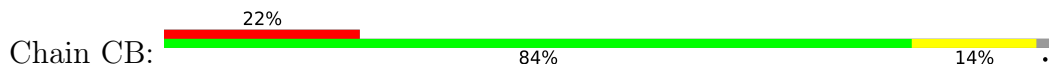


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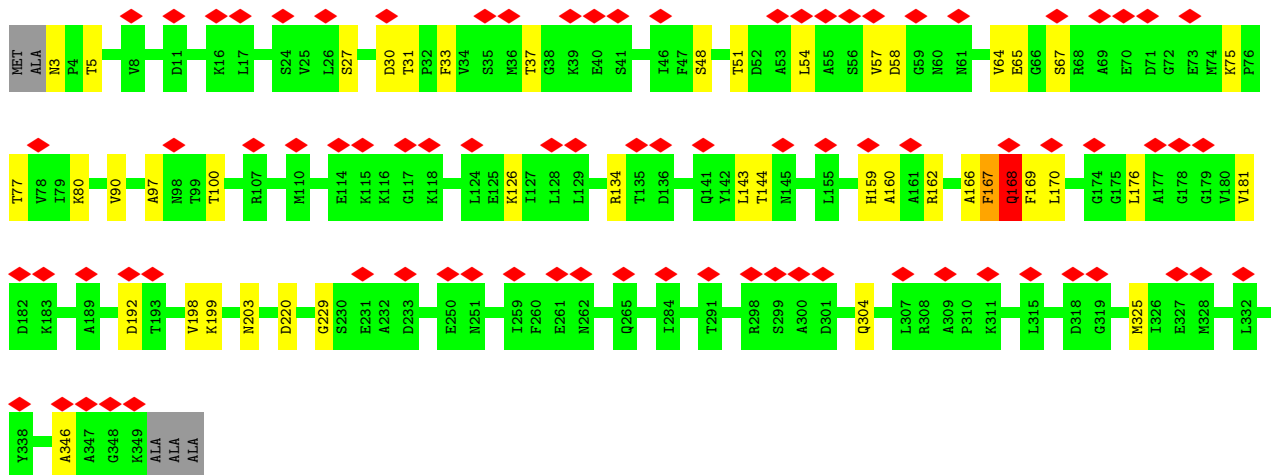
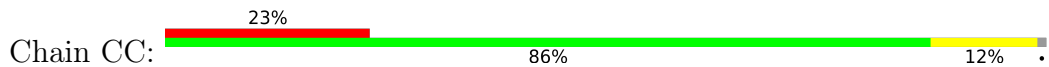




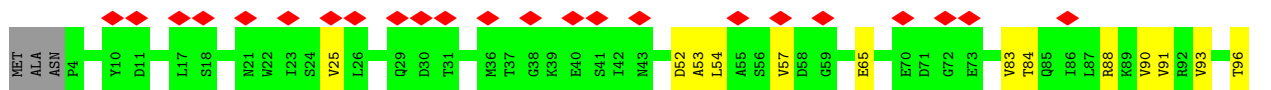
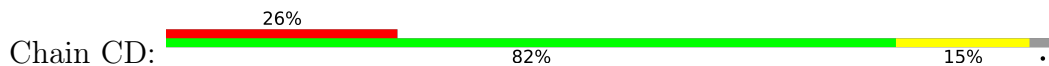
• Molecule 1: Major head protein

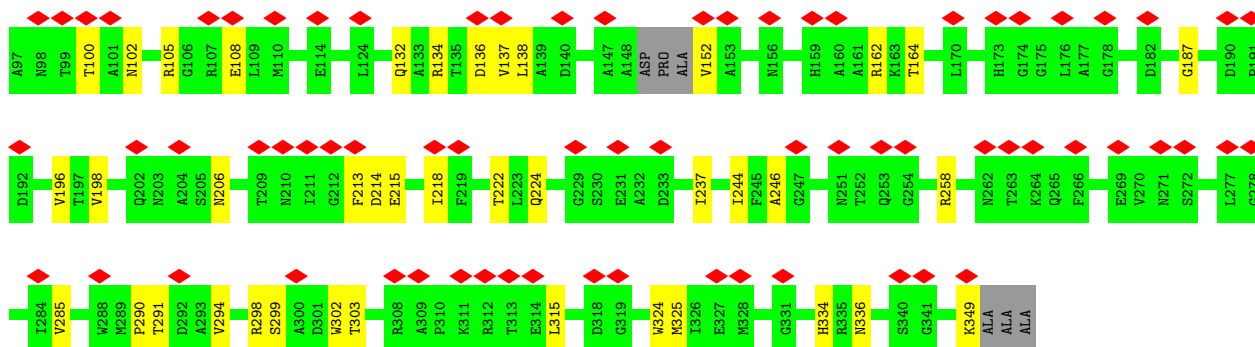


• Molecule 1: Major head protein

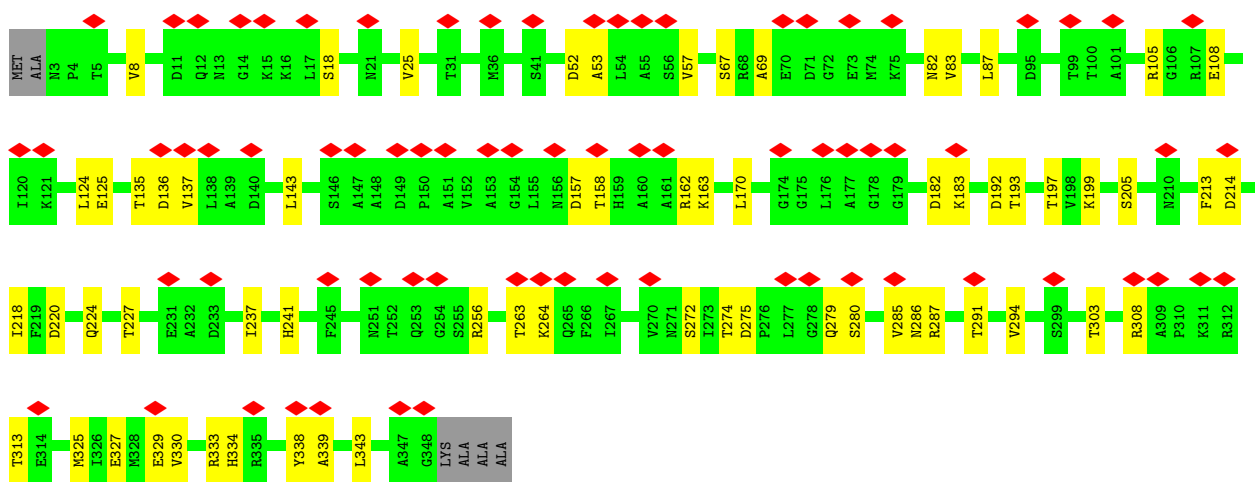
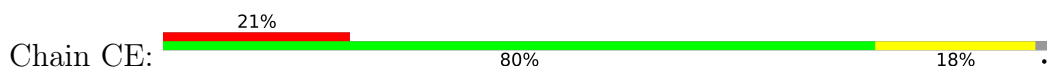


• Molecule 1: Major head protein

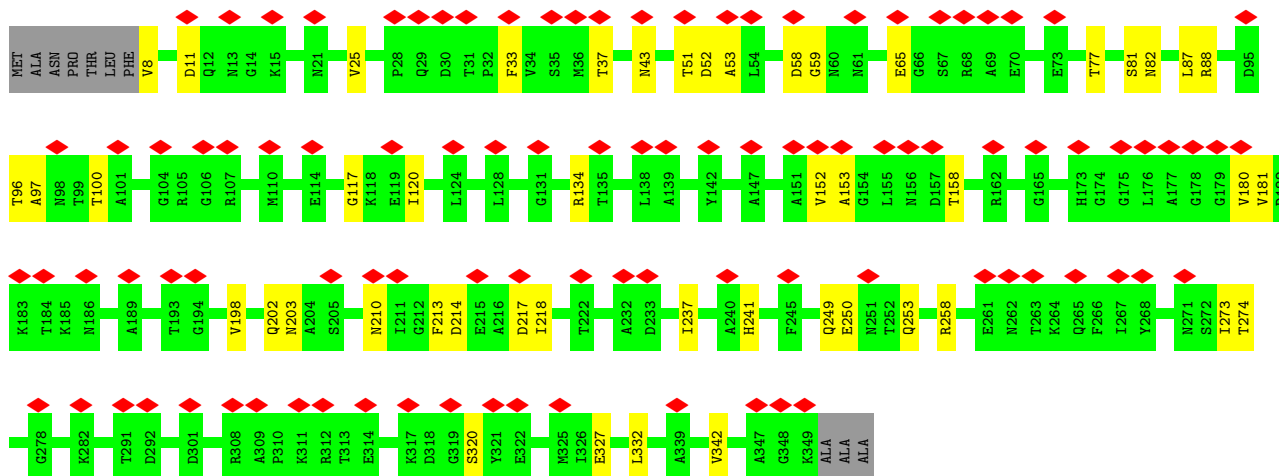
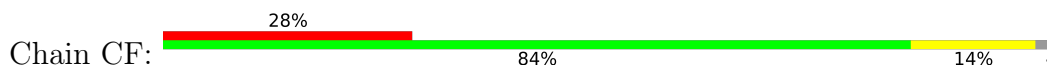




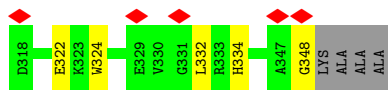
• Molecule 1: Major head protein



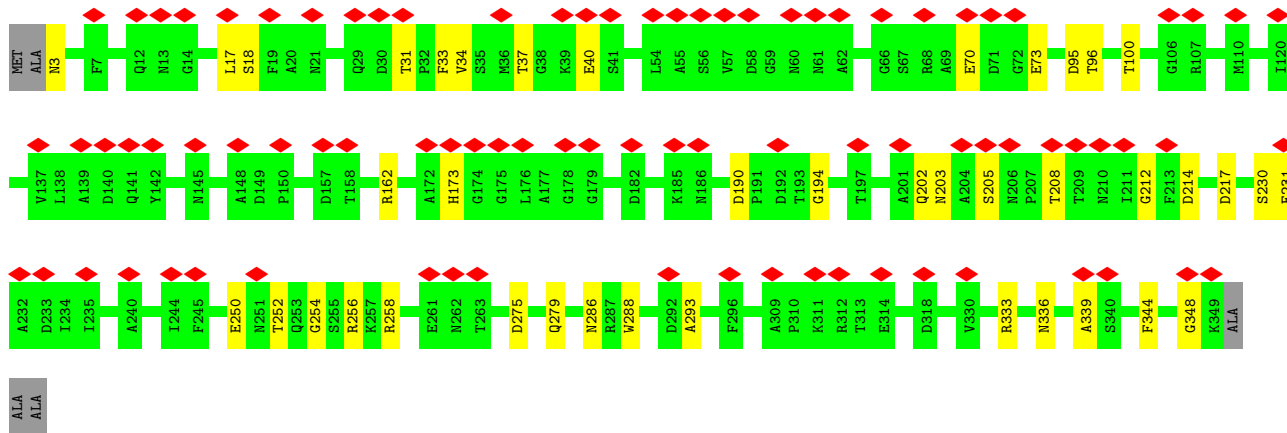
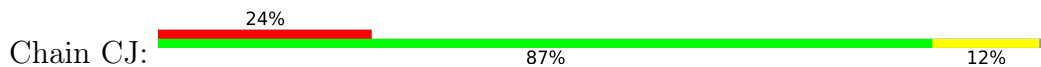
• Molecule 1: Major head protein



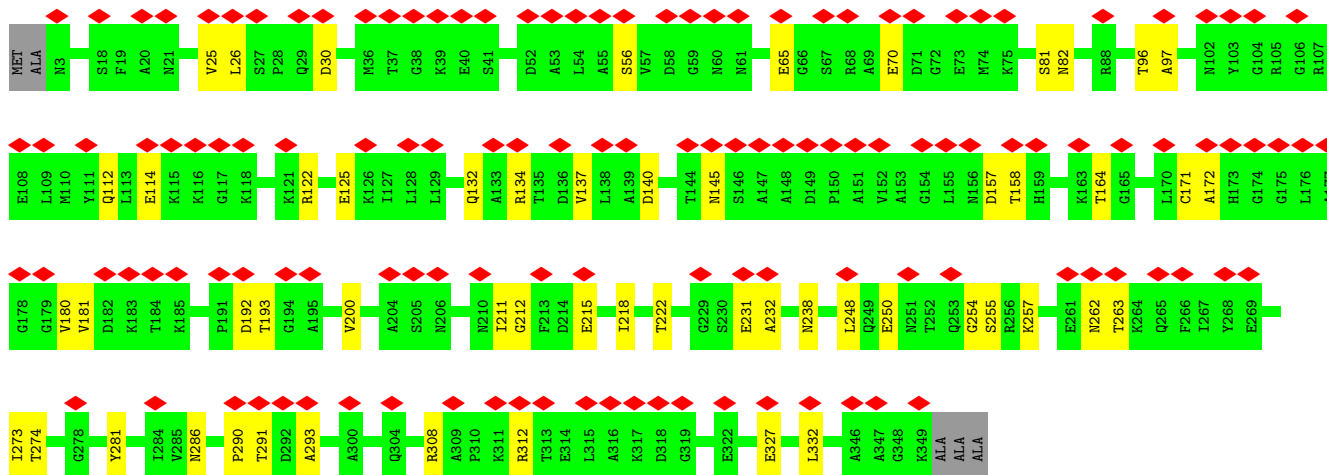
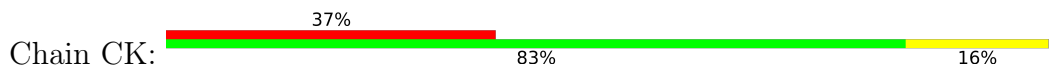
• Molecule 1: Major head protein



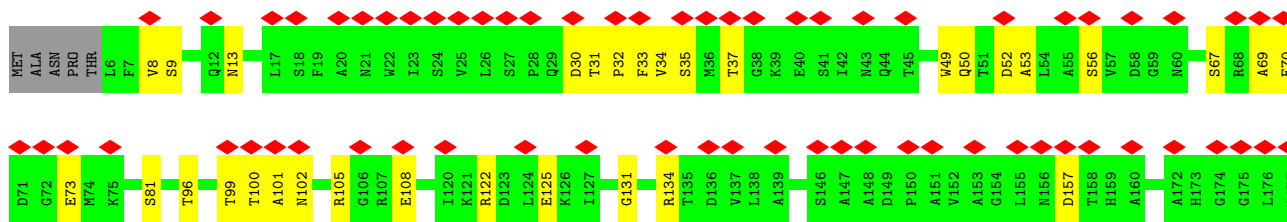
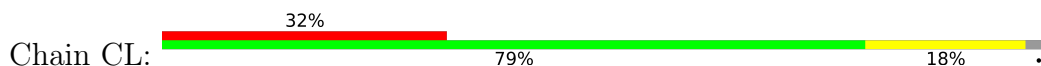
• Molecule 1: Major head protein

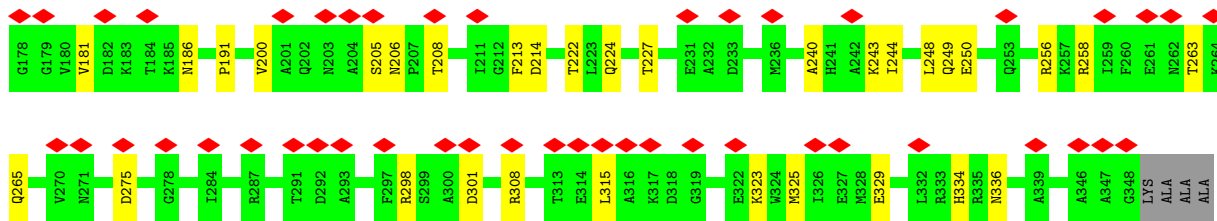


• Molecule 1: Major head protein

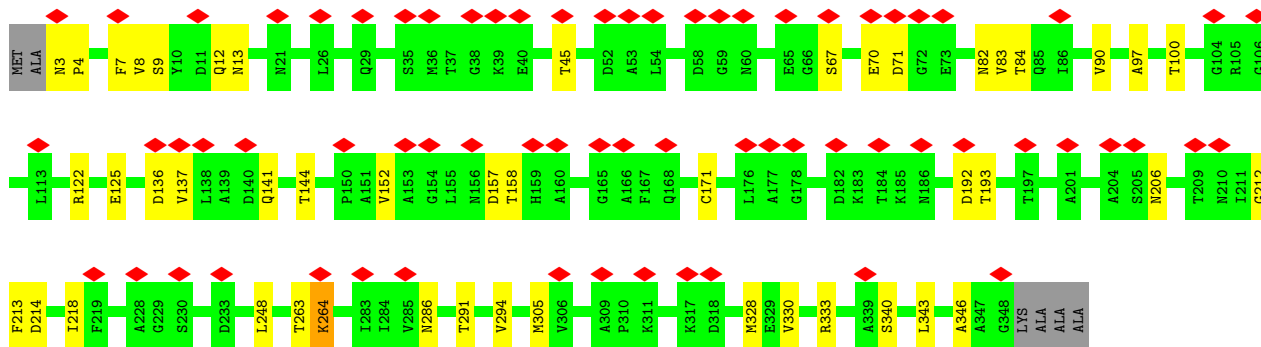
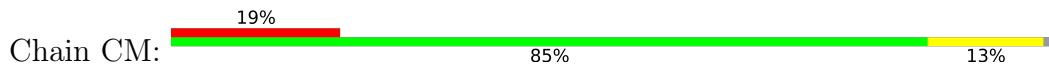


• Molecule 1: Major head protein

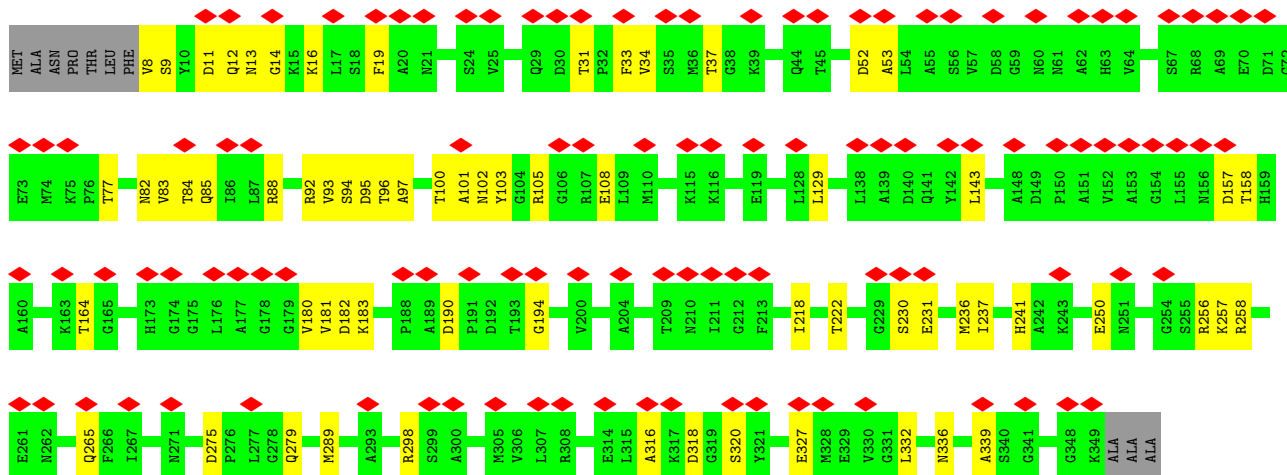
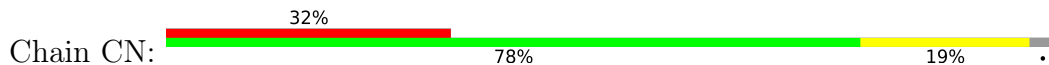




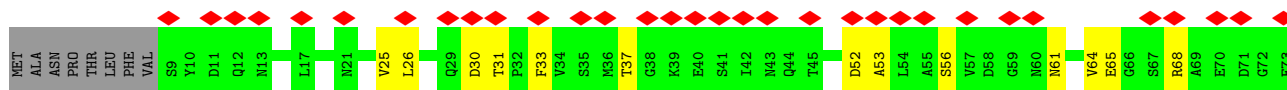
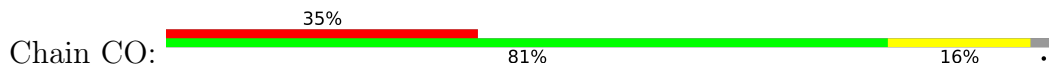
• Molecule 1: Major head protein

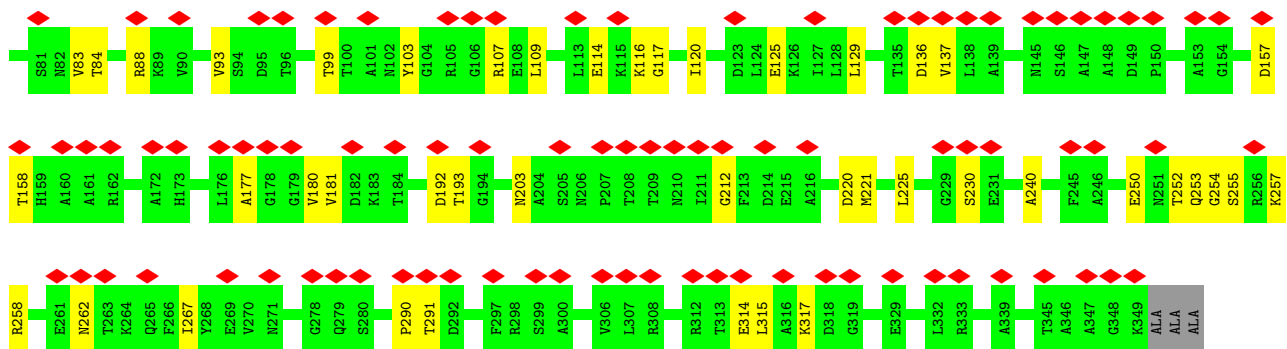


• Molecule 1: Major head protein

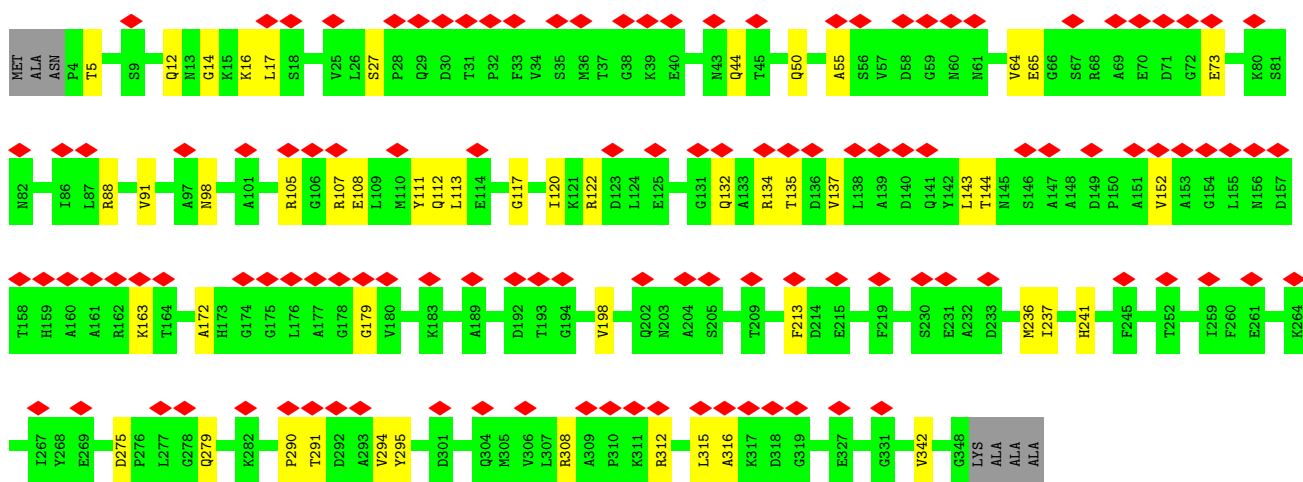
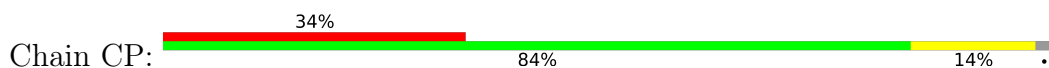


• Molecule 1: Major head protein

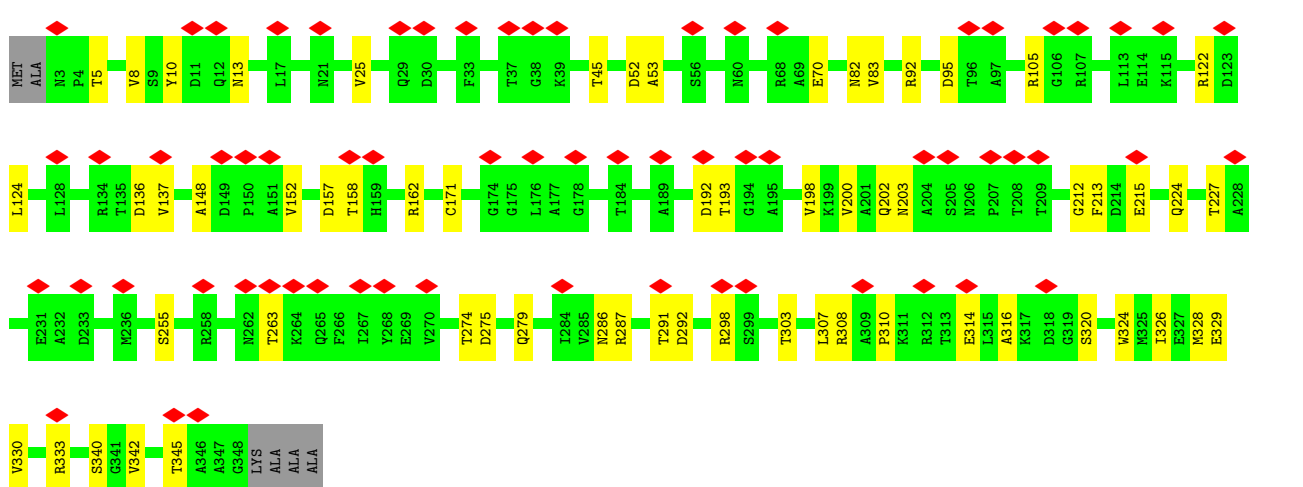
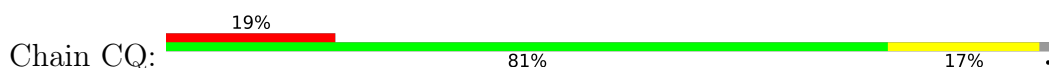




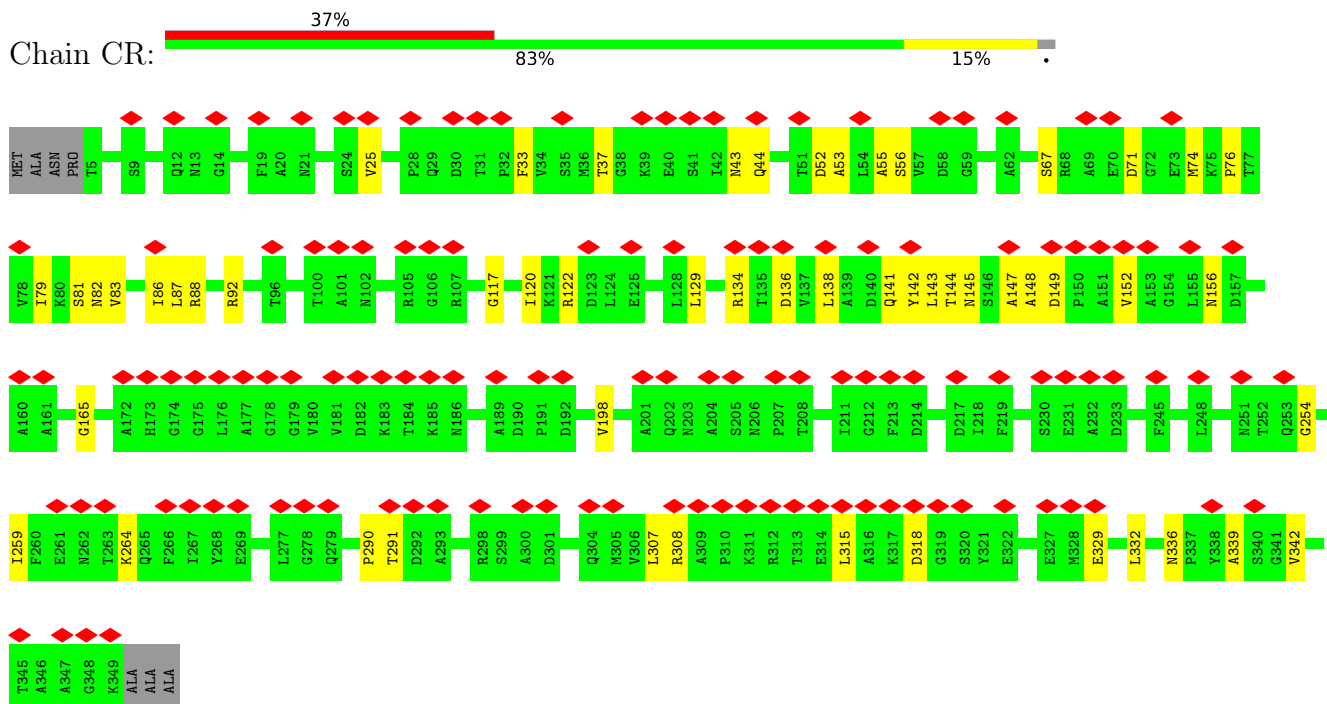
• Molecule 1: Major head protein



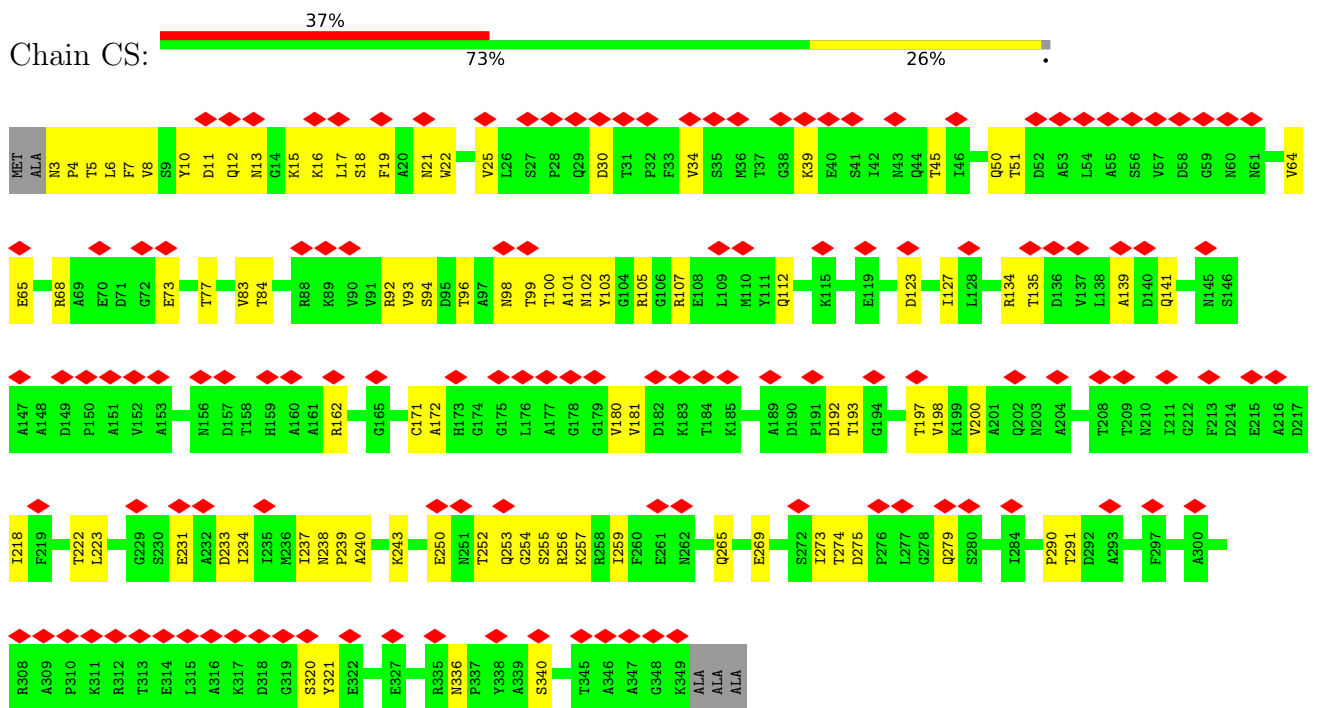
• Molecule 1: Major head protein



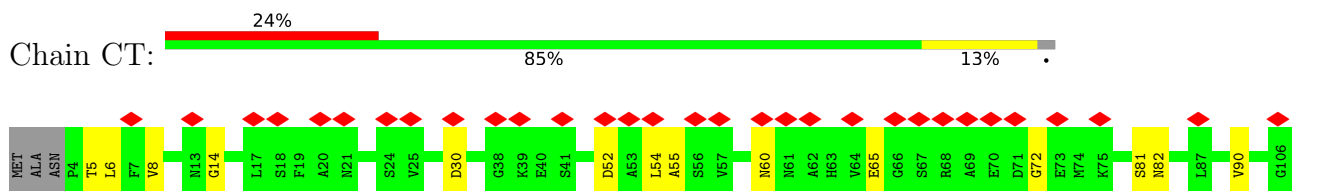
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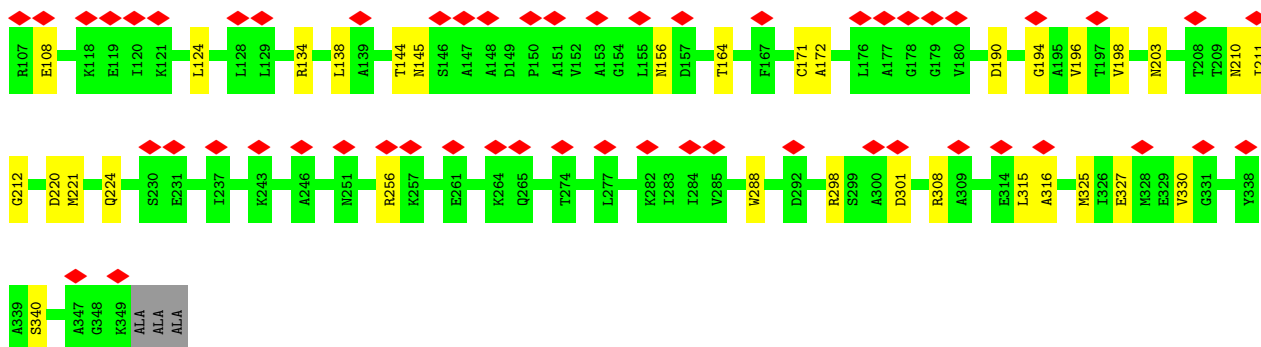


• Molecule 1: Major head protein

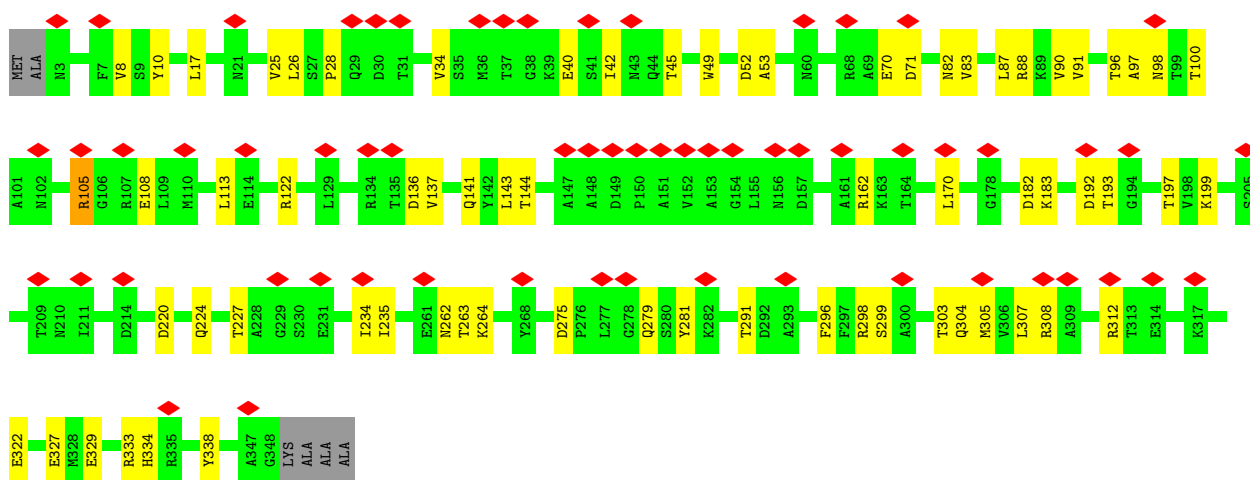
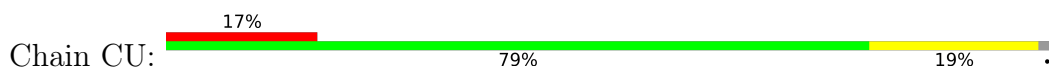


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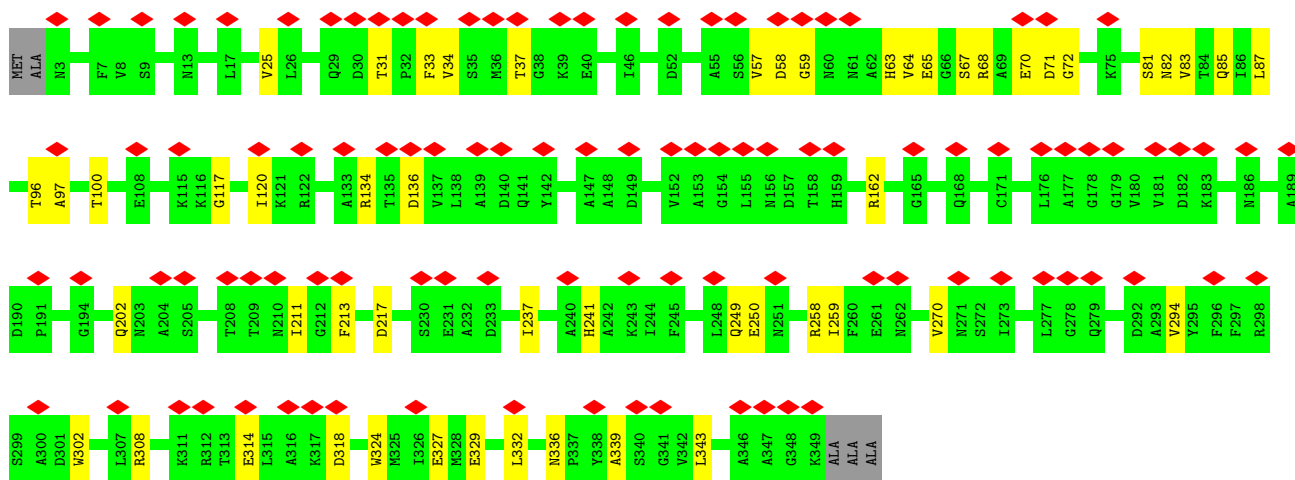
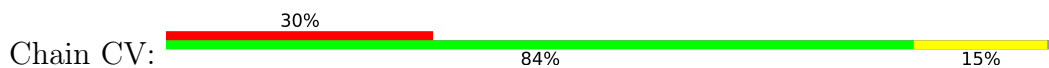




• Molecule 1: Major head protein



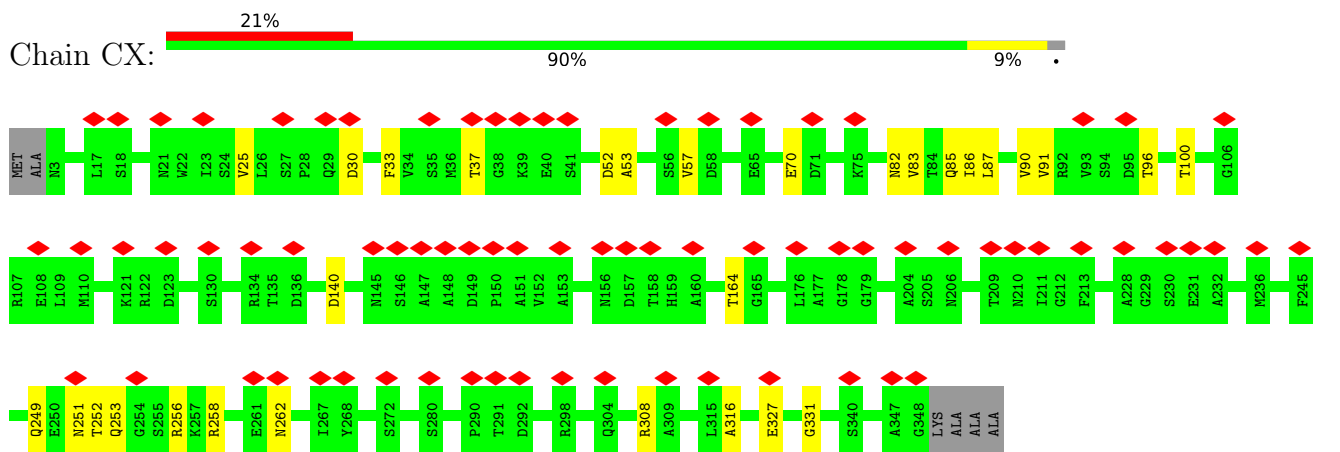
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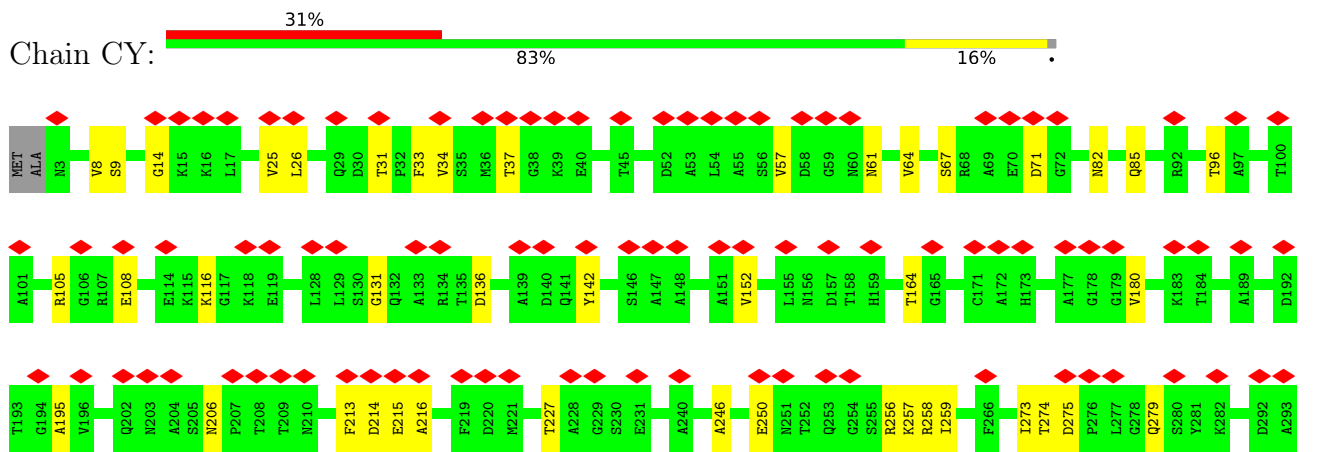
• Molecule 1: Major head protein

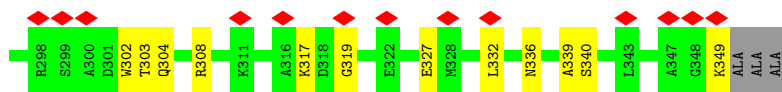


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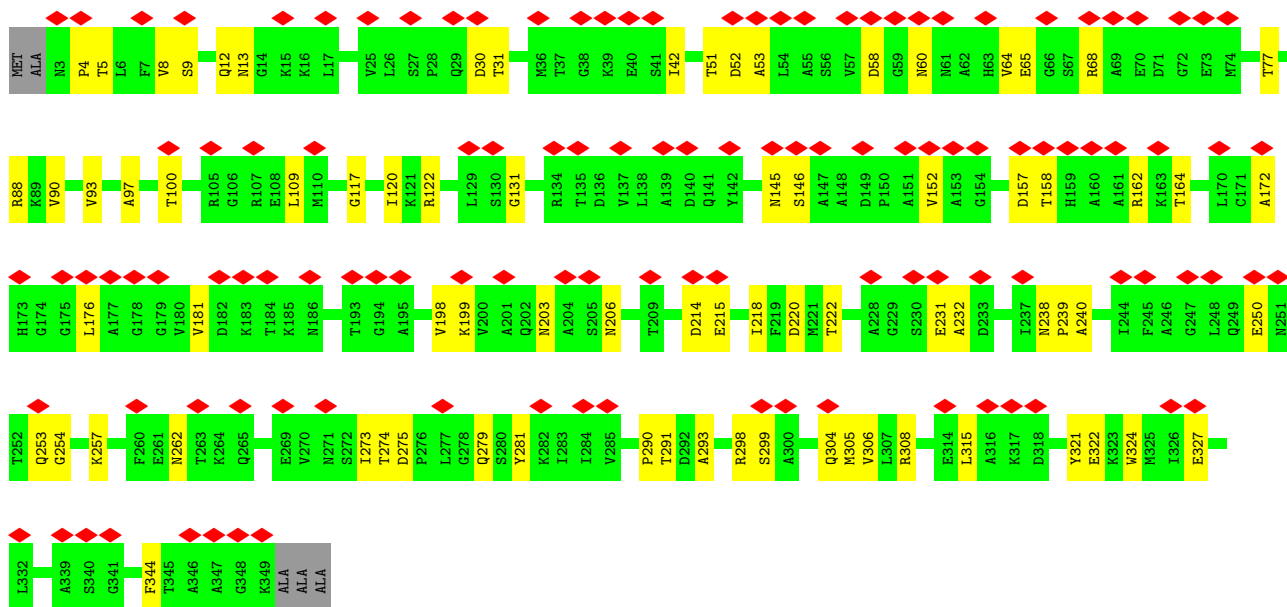
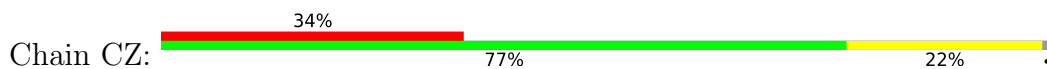


• Molecule 1: Major head protein

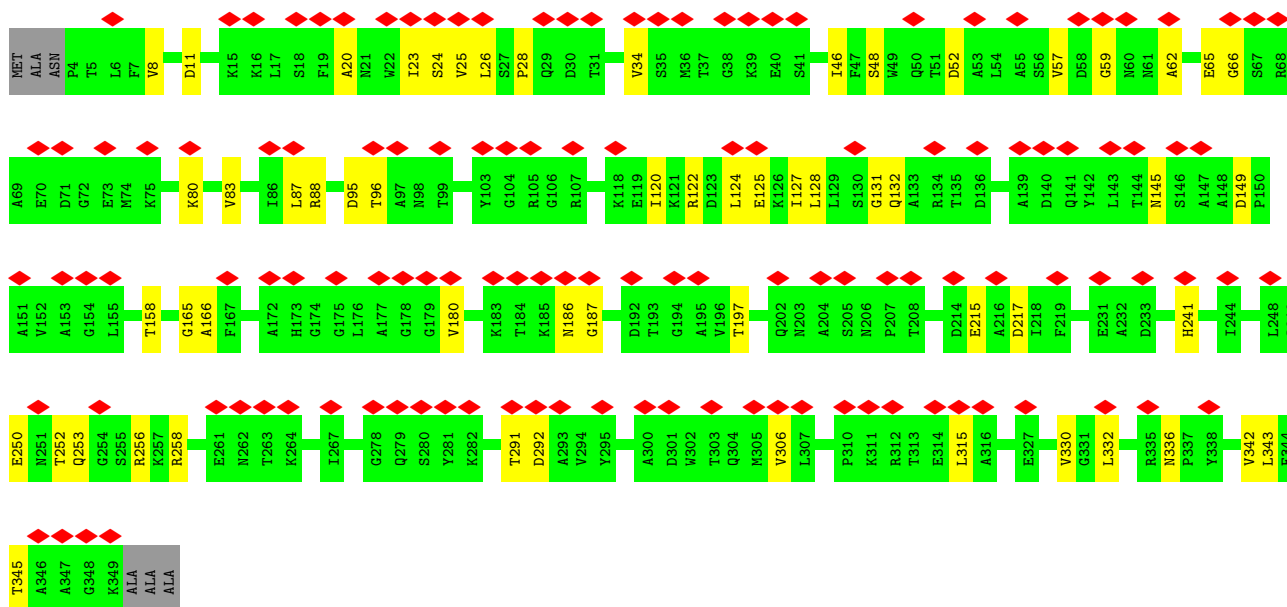
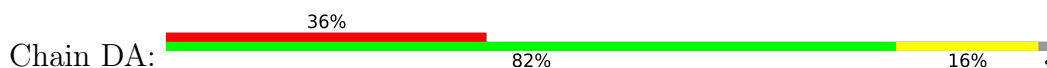




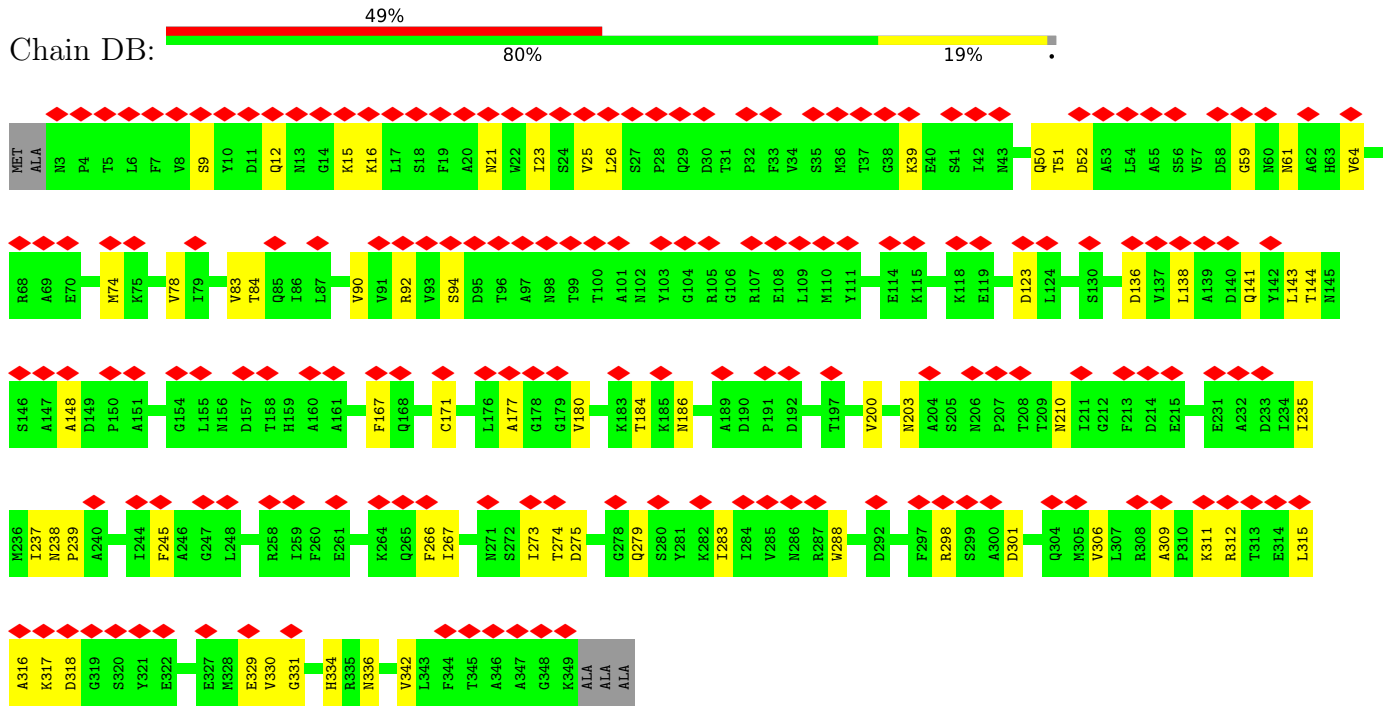
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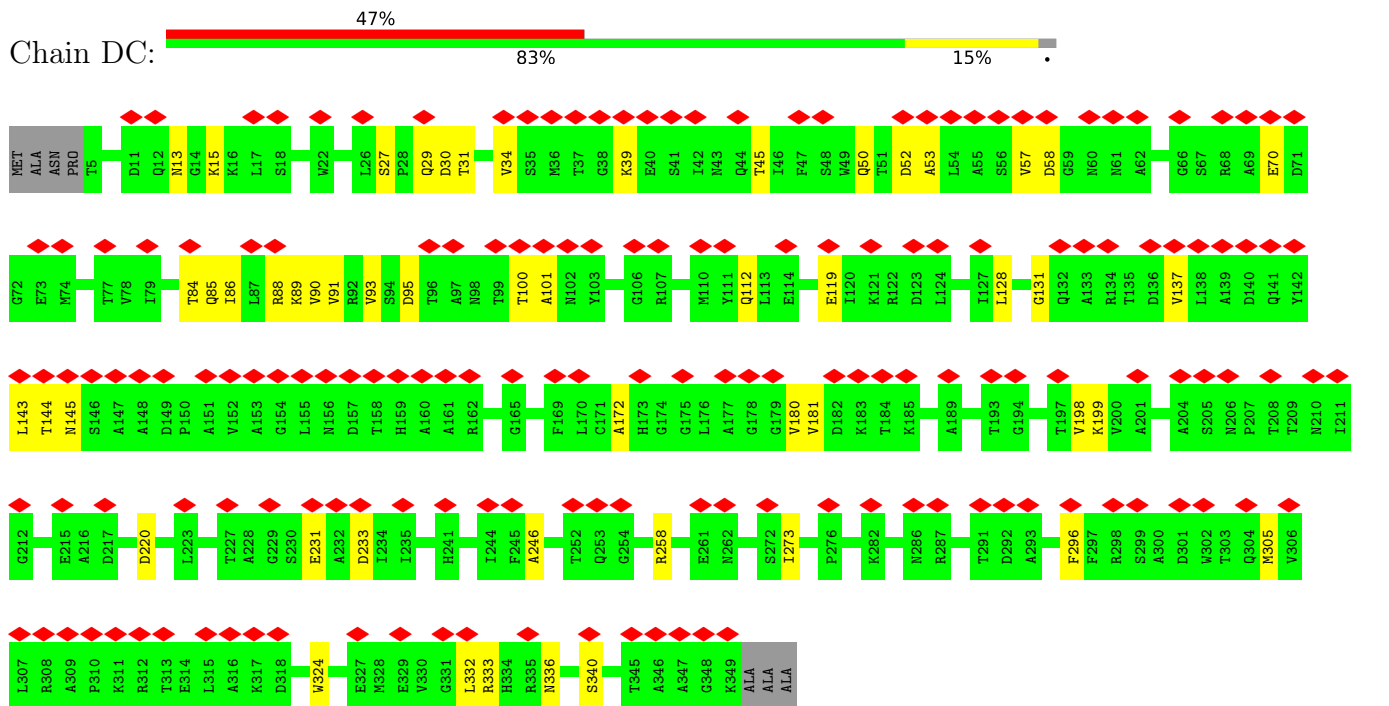
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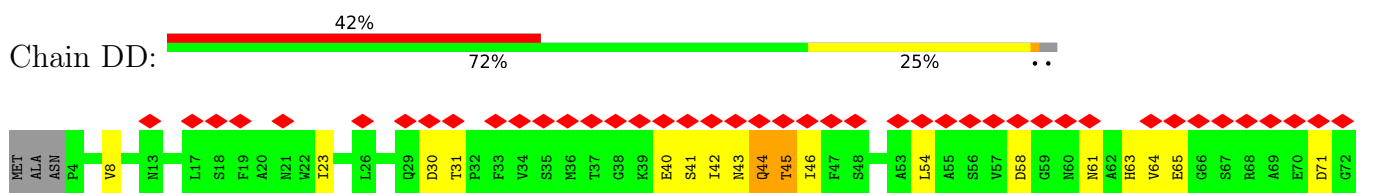
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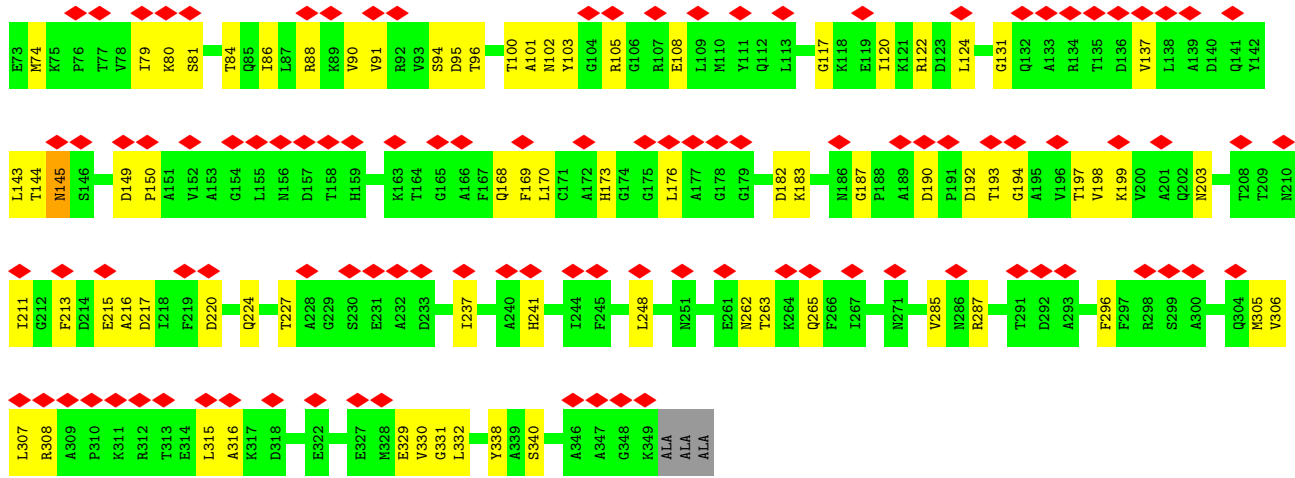


• Molecule 1: Major head protein

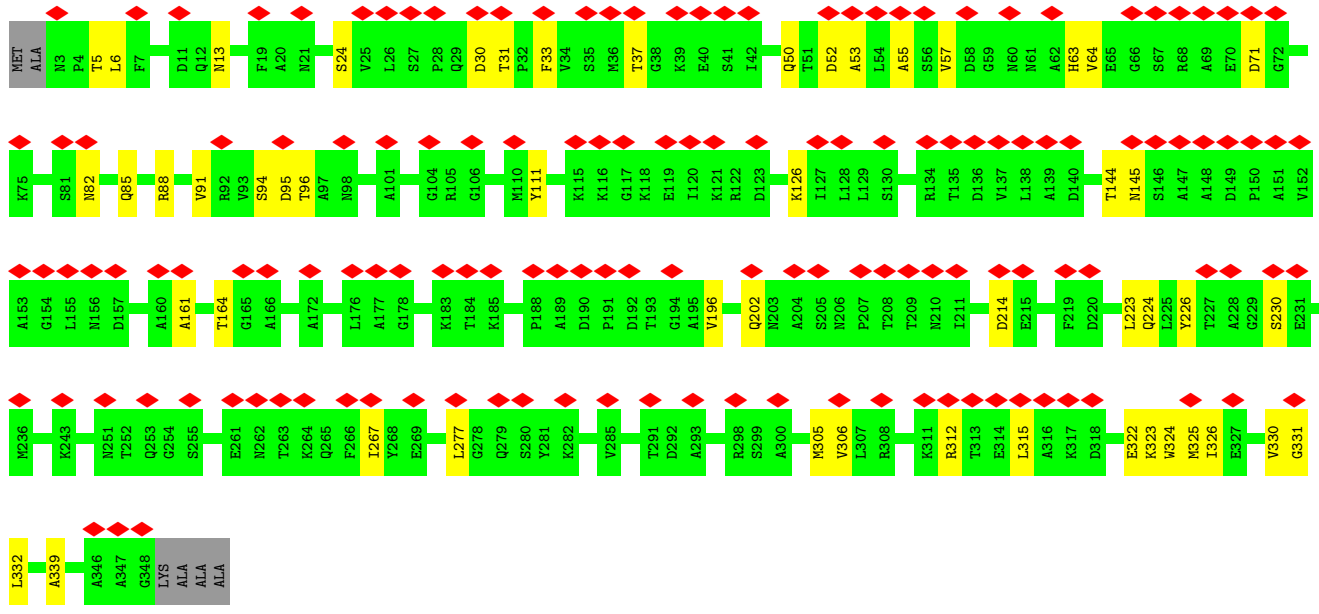
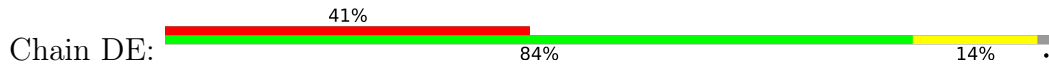


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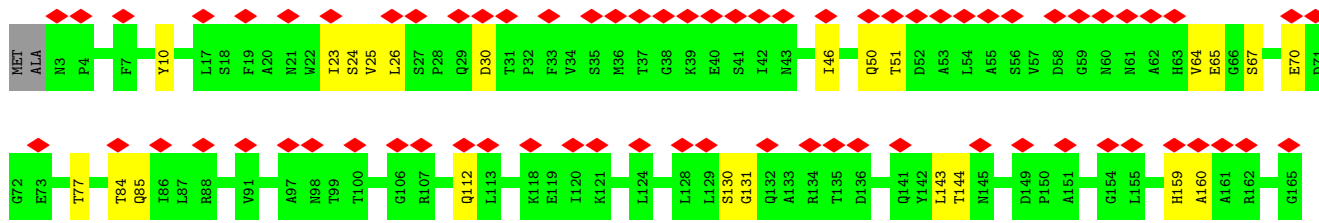
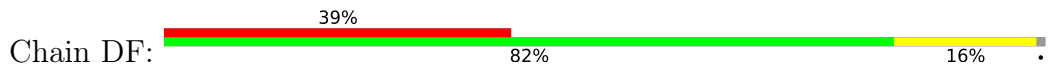


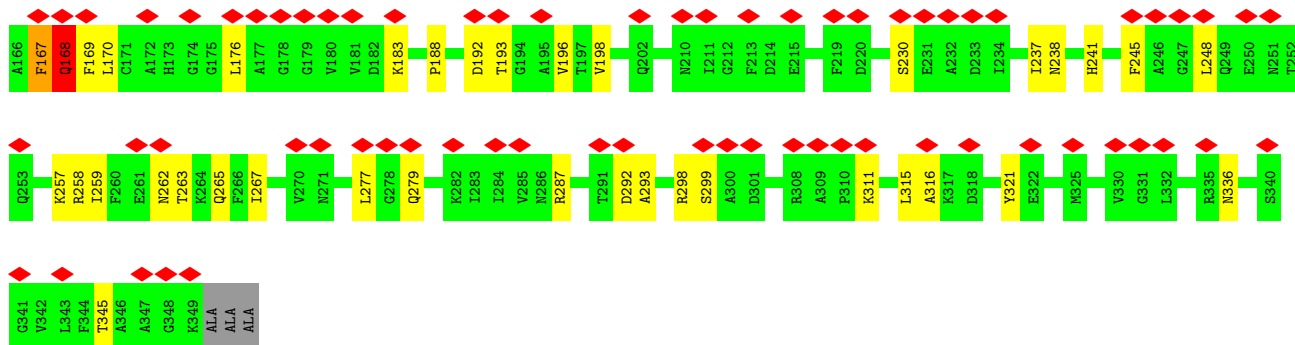


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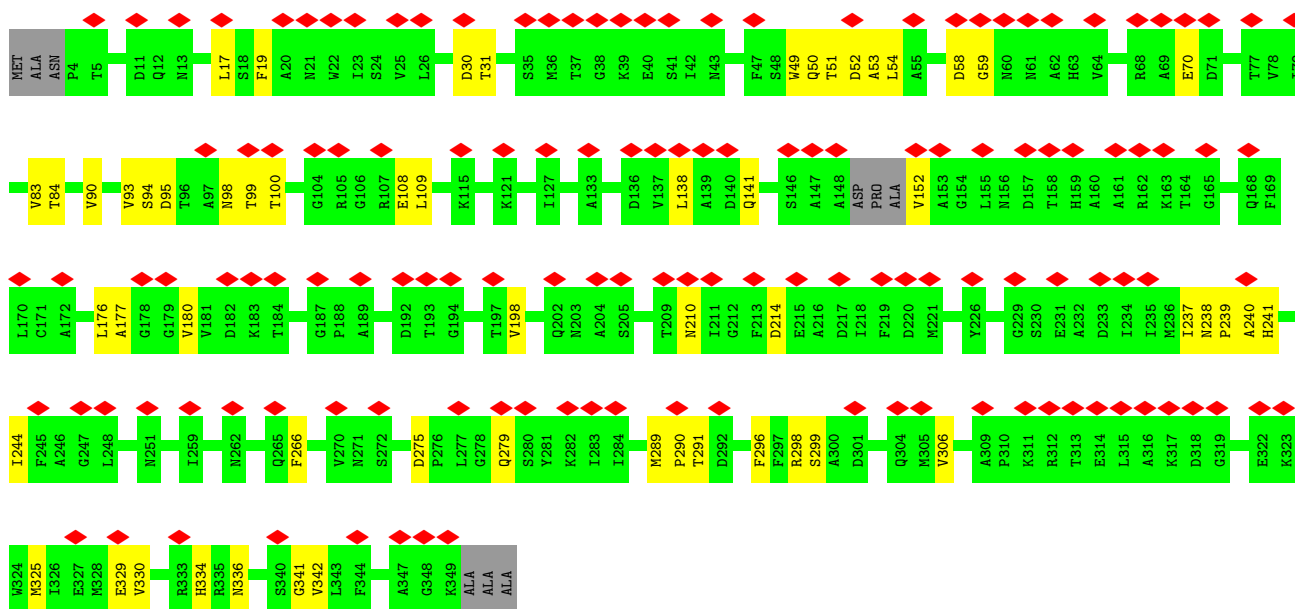
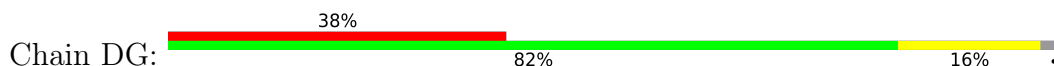


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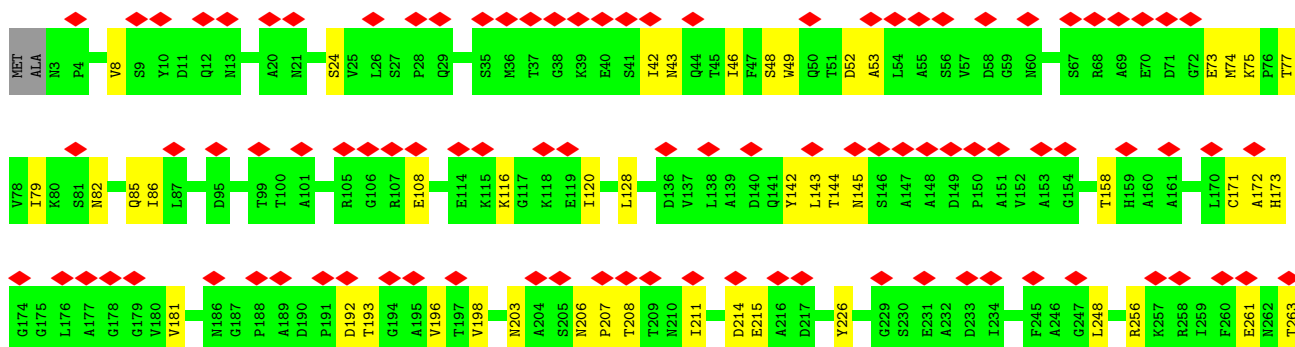
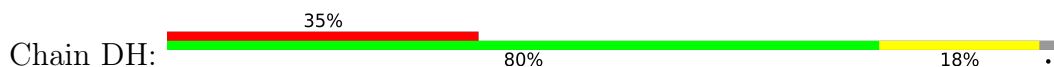


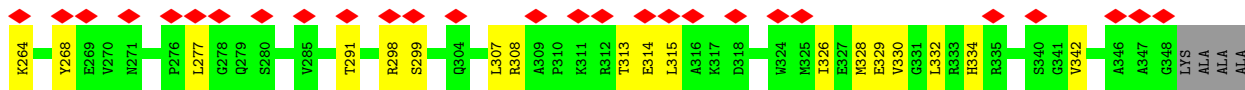


• Molecule 1: Major head protein

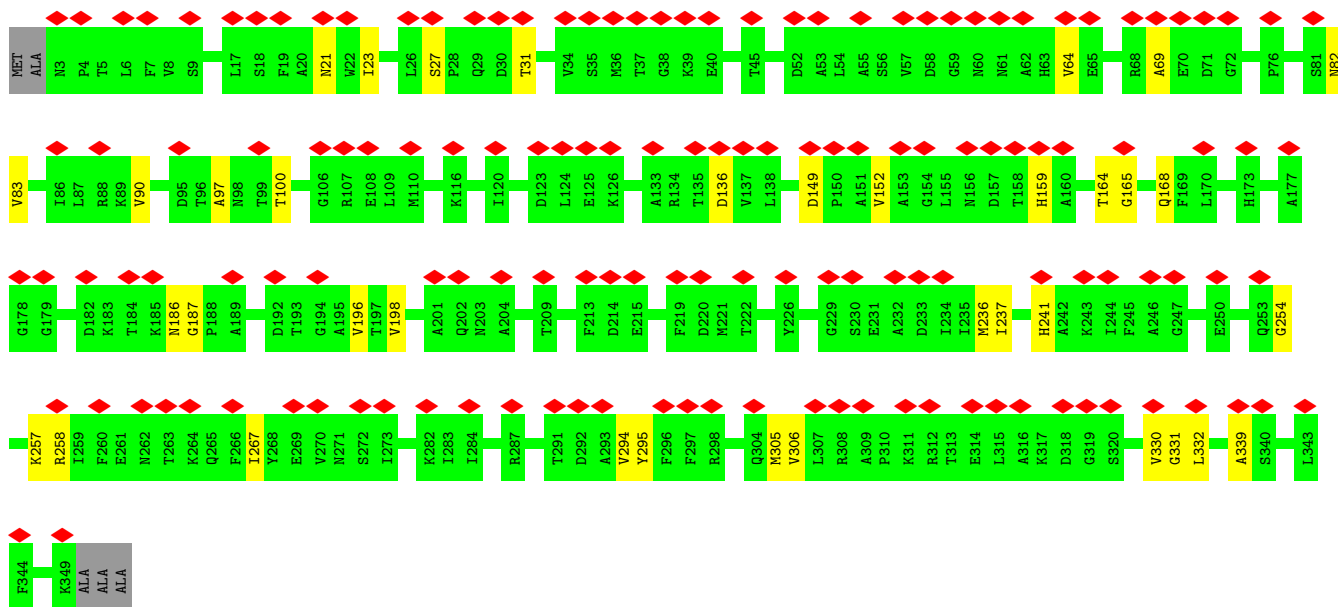
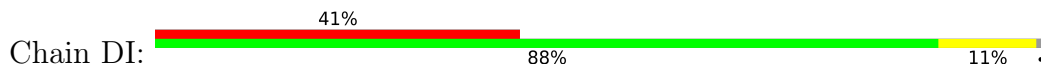


• Molecule 1: Major head protein

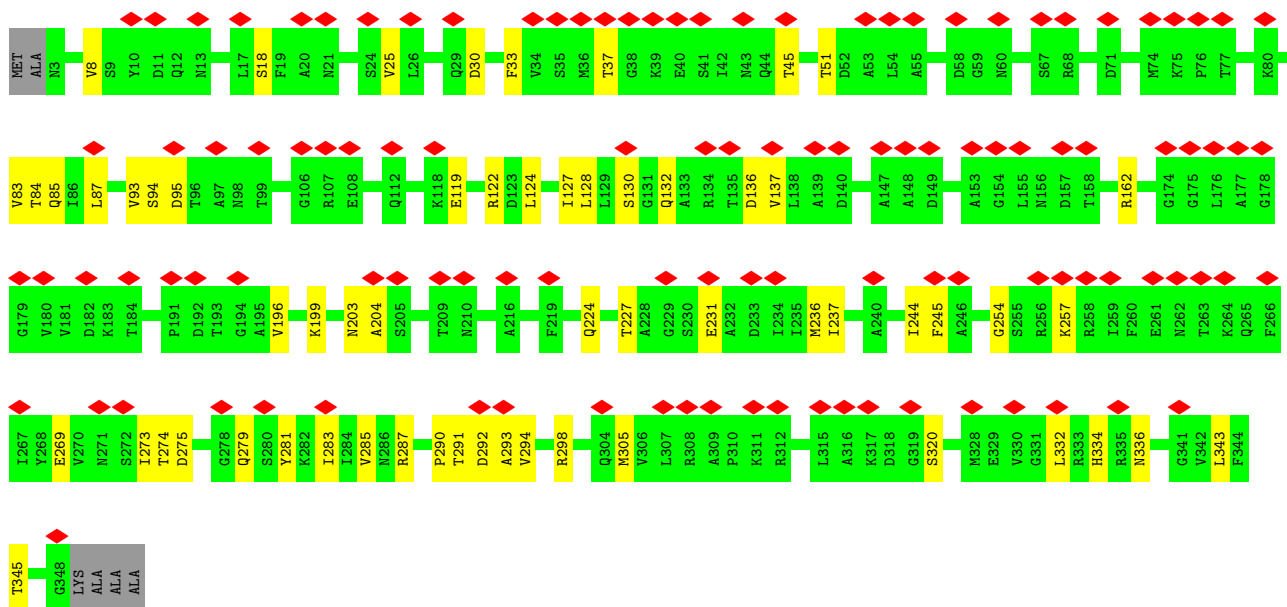
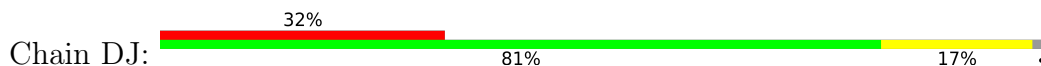




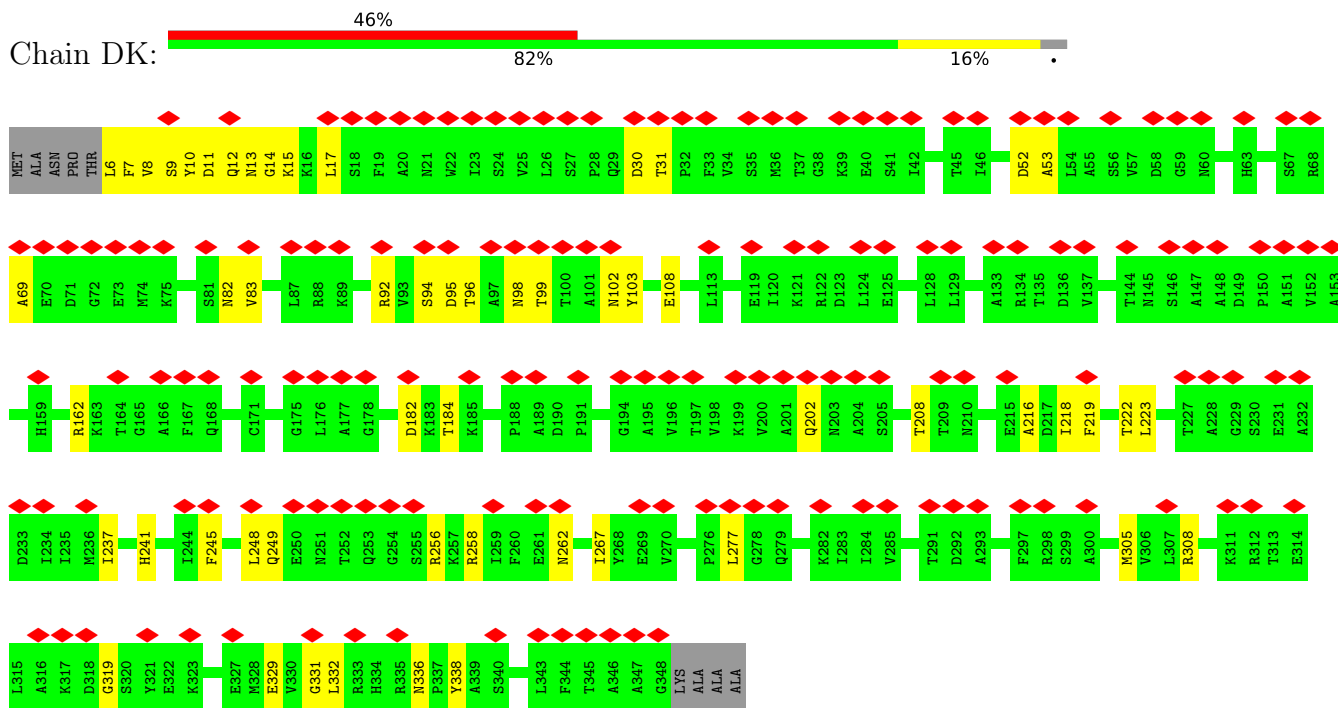
• Molecule 1: Major head protein



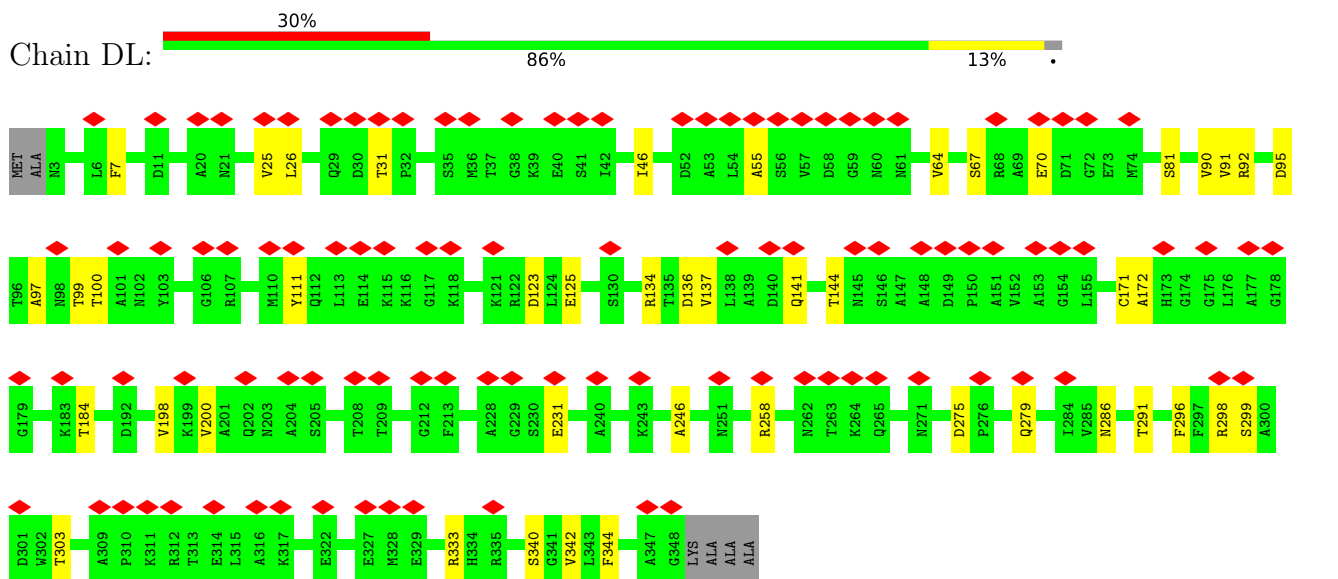
• Molecule 1: Major head protein



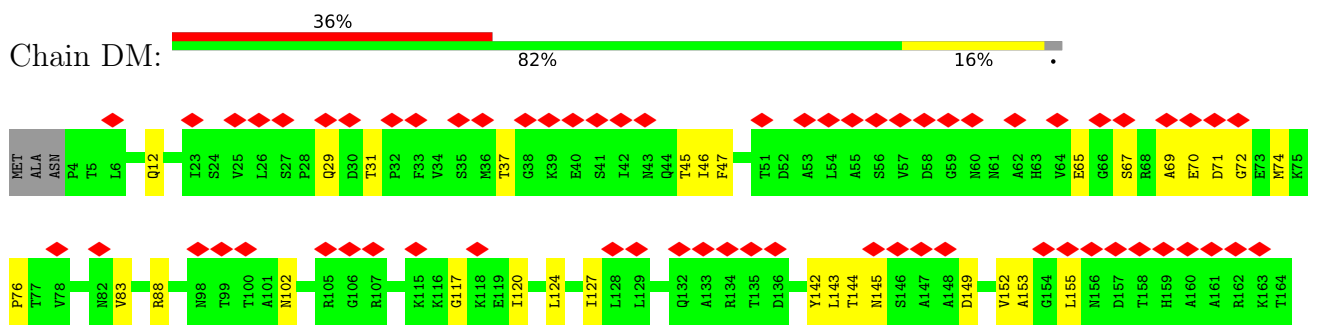
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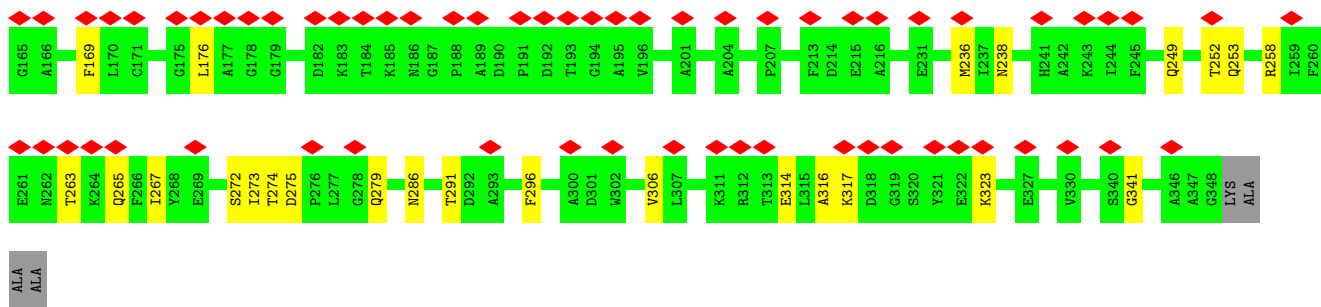


• Molecule 1: Major head protein

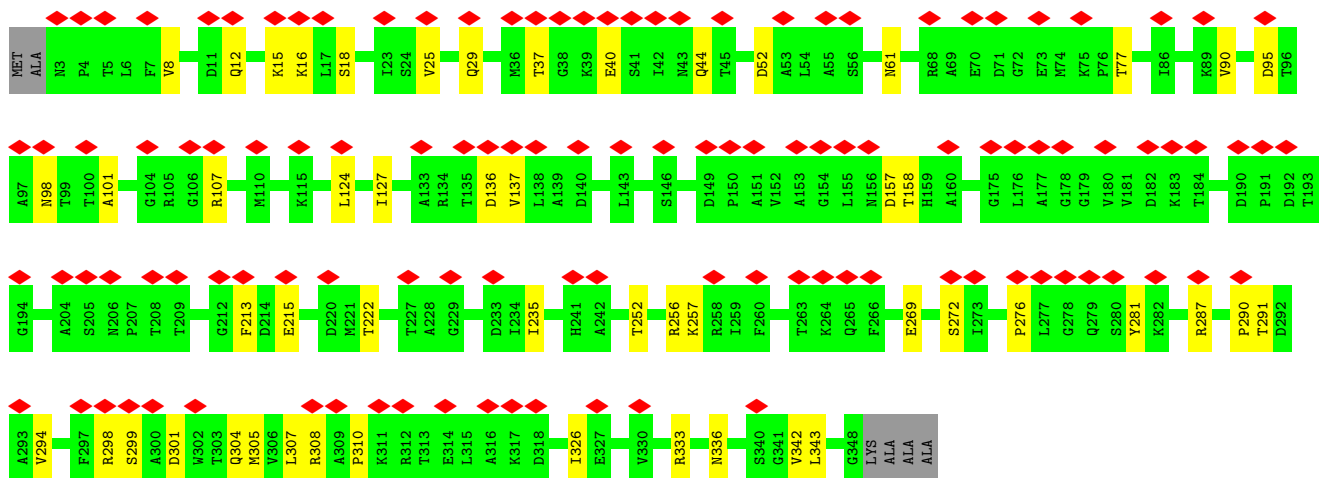
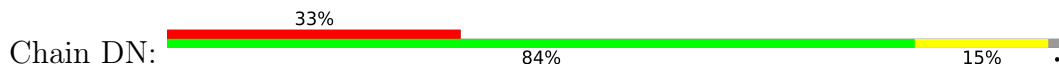


• Molecule 1: Major head protein

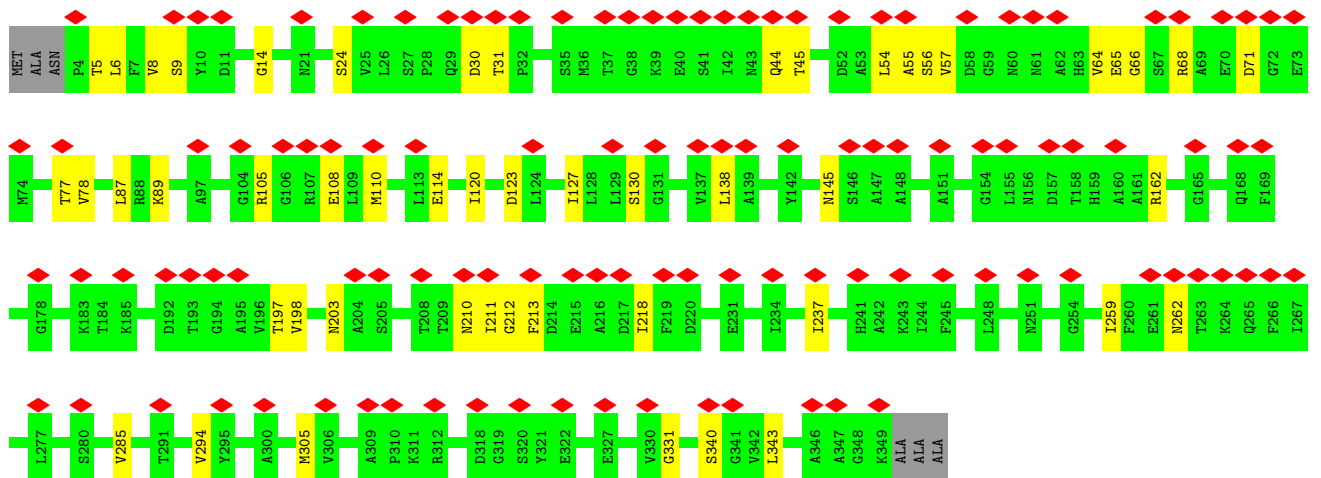
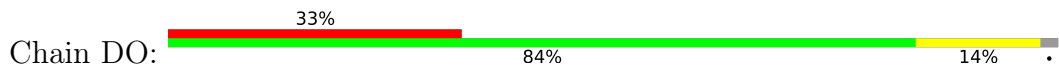




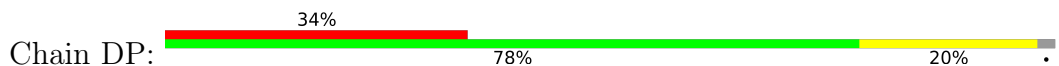
• Molecule 1: Major head protein

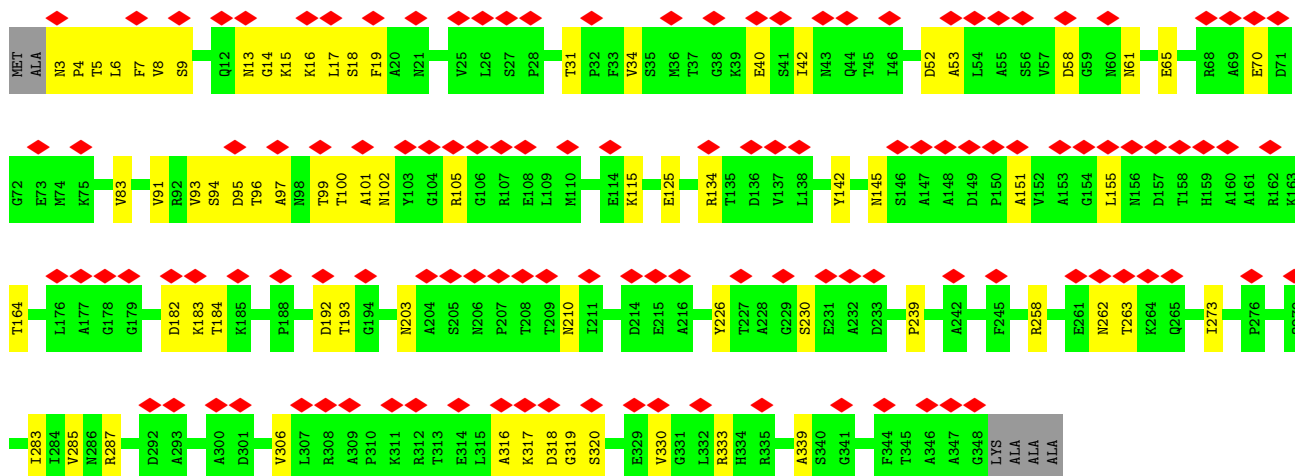


• Molecule 1: Major head protein

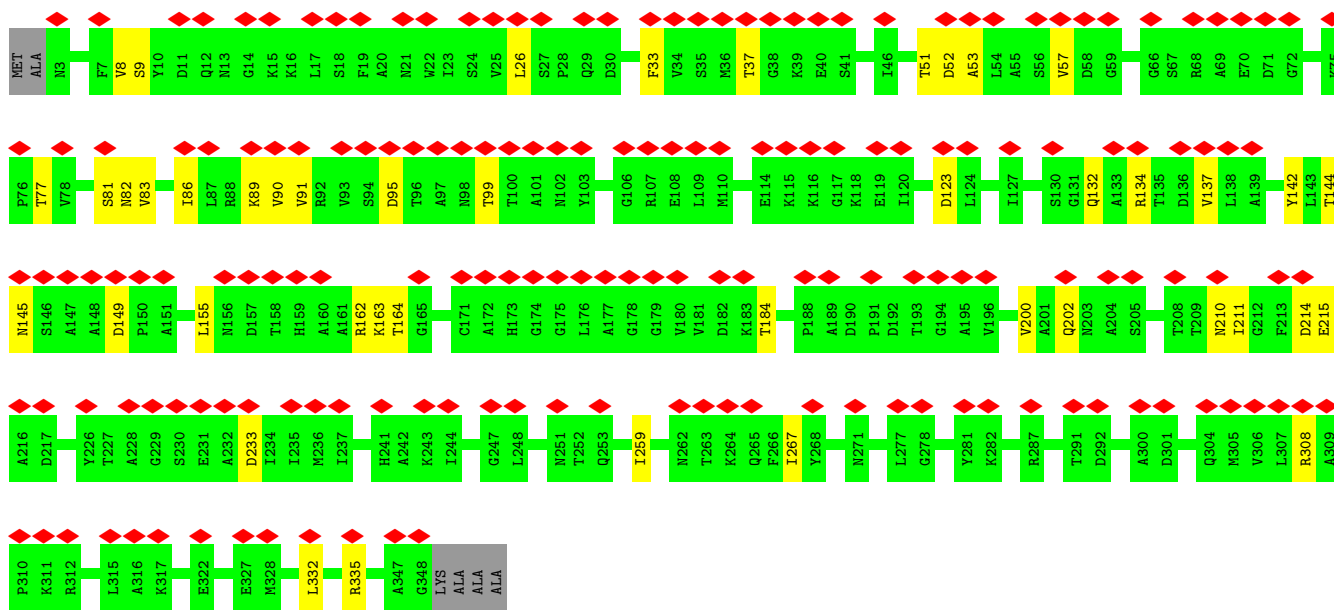
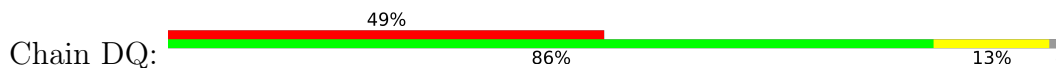


• Molecule 1: Major head protein

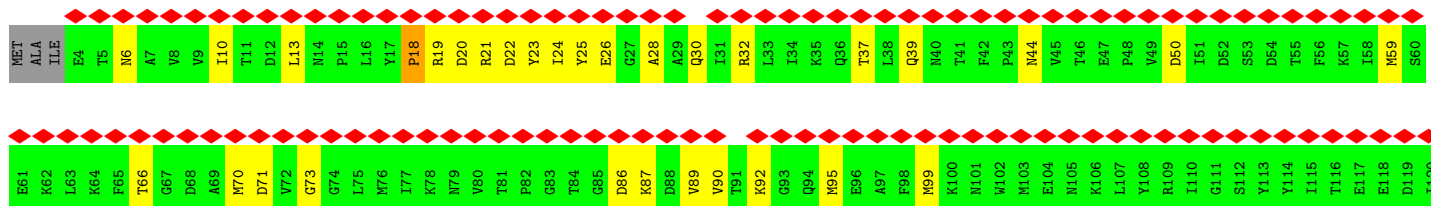
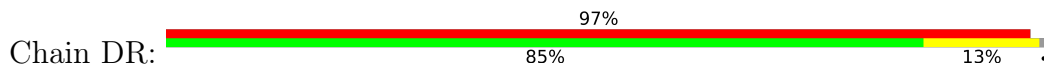




- Molecule 1: Major head protein

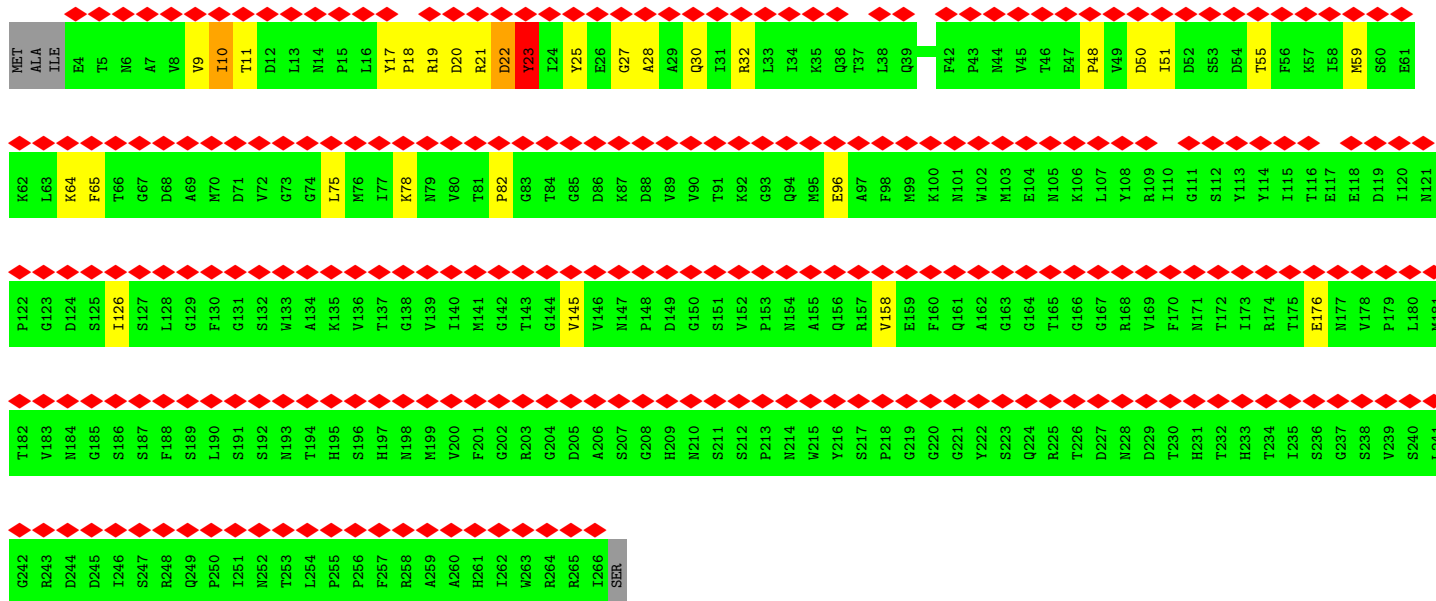
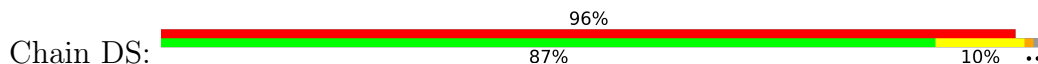


- Molecule 2: Putative structural protein

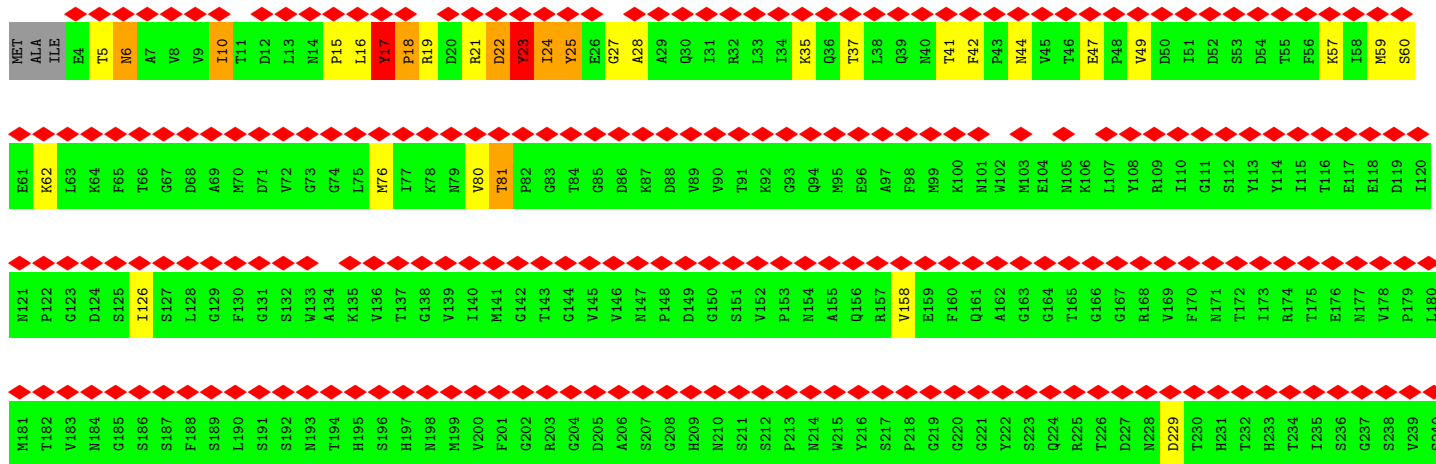
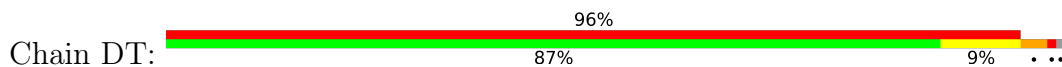


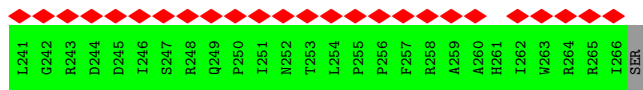


• Molecule 2: Putative structural protein

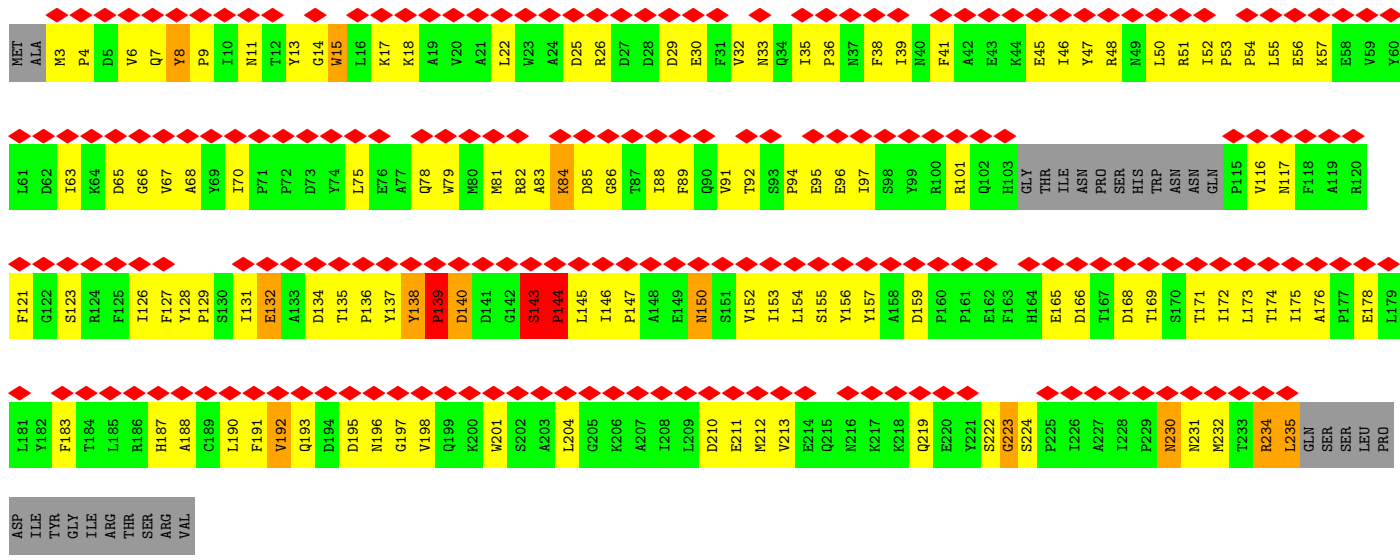
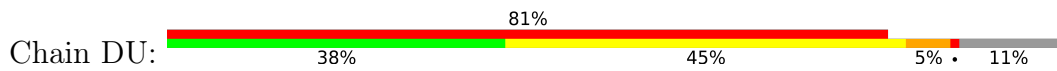


• Molecule 2: Putative structural protein

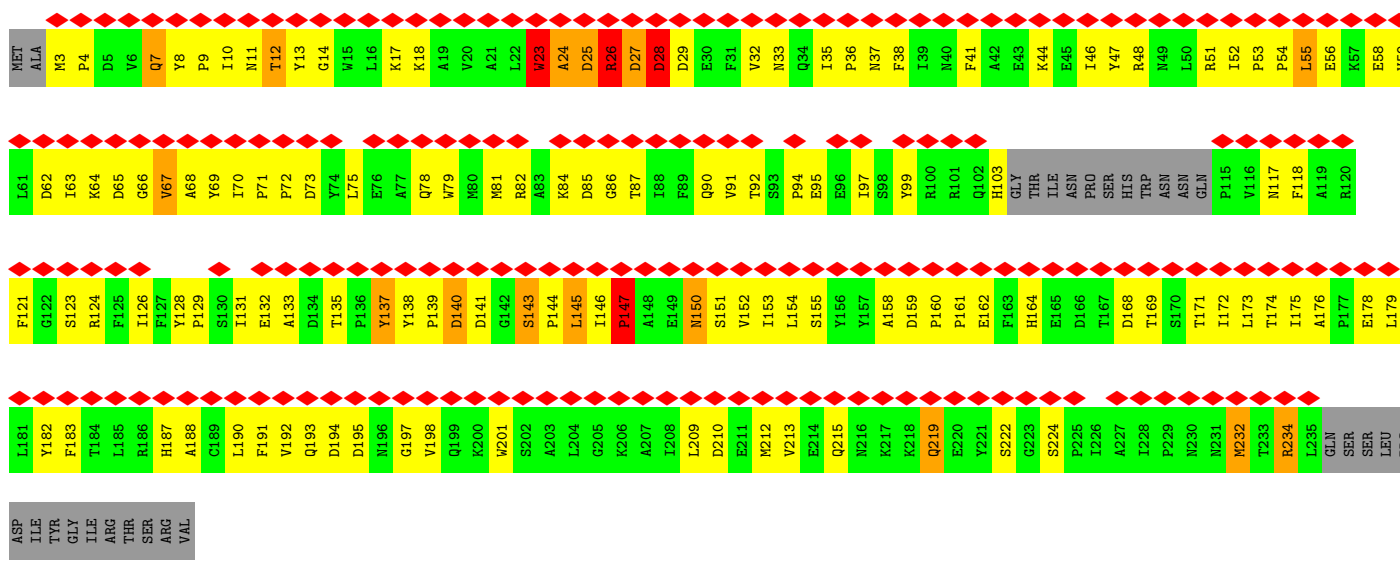
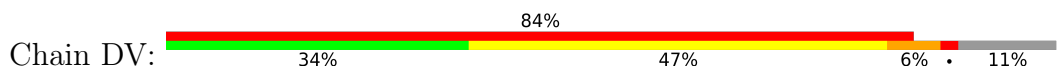




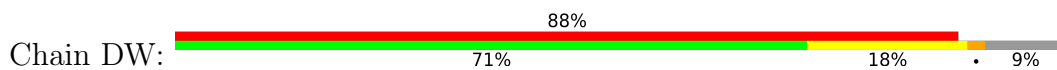
• Molecule 3: Adaptor



• Molecule 3: Adaptor



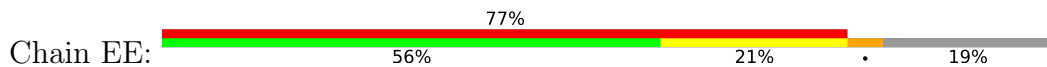
• Molecule 4: Surface protein



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K783	A723	E663	F603	I642	E482	THR	G363	V303	S243	K183	I123	L63	A2
K784	P724	M664	A604	S643	E483	GLY	M664	S304	N244	K184	V124	S64	L3
K785	E725	G665	L605	N644	S464	MET	R365	R305	N245	G185	P125	F65	V4
K786	C726	C666	M606	C645	Y485	TYR	V366	G306	A246	M186	A246	V66	P5
K787	V727	A667	M607	Q646	Q486	GLU	A367	Q307	S247	L187	E127	S67	I6
K788	V728	G668	R608	W487	W487	ASN	V368	Q308	I248	V188	S128	M68	K7
K789	E729	Y669	E609	S488	S488	ASN	C369	Y309	V249	V189	T129	P69	S8
K790	I730	I670	A610	A610	W489	PHE	C369	ASN	V249	V189	T129	P69	S8
K791	D731	D671	M611	D490	W489	TYR	T370	I310	S250	T190	I130	F70	L9
K792	G732	L672	A612	D490	D490	ASP	V371	L311	V251	I191	I131	D71	G10
K793	S733	A673	S613	K491	K491	THR	R372	T312	T252	I192	M132	Y72	A11
K794	H734	D674	G614	G492	G492	ASN	V373	A313	P253	T193	M133	Y73	V12
K795	F735	S675	V615	G493	G493	VAL	ASP	T314	N254	A194	F134	S74	G13
K796	V736	P655	V616	Y494	Y494	ASP	LEU	L315	A255	M195	M135	A75	V14
K797	G737	Q656	T617	W495	W495	ILE	ALA	S316	N256	E196	Q136	G76	I15
K798	V738	V657	T618	S496	S496	ARG	GLY	P317	S257	S197	T137	M77	A16
K799	T739	K558	N618	T497	T497	THR	THR	A318	L258	V198	K138	S78	D17
K800	Q739	E559	N619	T498	T498	GLY	MET	N319	L258	V198	K138	S78	Q18
K801	N740	F560	P620	S499	S499	PHE	ARG	A320	T259	V199	M139	F79	A19
K802	D741	E561	A621	V500	V500	ALA	THR	A320	A260	A200	L140	L80	P20
K803	I682	S562	R622	T501	T501	ALA	THR	P321	V261	Q201	E141	L80	T21
K804	L683	E563	G623	G502	G502	LEU	ALA	N322	L262	I202	V142	V82	P21
K805	P684	Y564	R624	K503	K503	LEU	ALA	Q323	T263	A203	S143	G83	D22
K806	L685	F565	R625	S504	S504	PHE	ALA	N324	A264	V204	L144	T84	L23
K807	K686	V566	S626	I505	I505	ALA	ALA	I325	L145	N205	A24	K86	A24
K808	D687	D567	S627	K506	K506	PRO	VAL	T326	G266	I206	P146	K87	P25
K809	Y688	L568	F628	L507	L507	VAL	VAL	W327	E267	I207	A147	N26	N26
K810	T749	L689	A629	V508	V508	GLU	GLU	T328	G268	D208	D148	L88	A27
K811	K750	F690	M630	A509	A509	GLU	GLU	S329	N269	G209	A149	F89	F28
K812	K751	E691	E631	W571	W571	VAL	VAL	S330	V270	D210	M150	K90	T29
K813	S752	Y692	M632	L510	L510	THR	THR	N331	T271	S211	M151	L91	N30
K814	I753	E693	K633	R511	R511	GLN	GLN	P332	L272	G212	T152	T92	A31
K815	A754	Q694	A634	K512	K512	GLU	GLU	N333	T273	I213	M153	D93	I32
K816	F755	T695	P635	G513	G513	GLU	GLU	I334	A274	F214	L154	E94	N33
K817	N756	T697	T636	E514	E514	VAL	VAL	A335	D275	L215	I155	S95	A34
K818	V757	L698	L637	I515	I515	VAL	VAL	T336	N276	S216	V156	L96	R35
K819	W758	E699	D639	M516	M516	THR	THR	S338	G277	Q217	E157	T97	F36
K820	N760	G700	D640	V517	V517	PRO	PRO	S339	T278	D218	V158	D98	V38
K821	M761	S701	F641	C519	C519	PRO	PRO	G339	K279	T219	S159	I99	E39
K822	L762	P702	F642	T520	T520	GLU	GLU	T340	T280	V220	M160	S100	Q40
K823	I763	P703	A643	V521	V521	GLU	GLU	S341	A281	T221	S162	R101	R41
K824	N764	N704	Y643	Q523	Q523	THR	THR	T342	S282	I222	S162	K102	V42
K825	E765	S705	R644	M524	M524	VAL	VAL	Q343	C283	G164	Y163	V103	F43
K826	V766	T706	V645	T525	T525	TYR	TYR	G344	E284	K224	S165	A104	K44
K827	C767	Q707	VAL	M525	M525	PHE	PHE	T345	I285	G225	S166	T105	T45
K828	L768	S708	SER	K526	K526	ALA	ALA	I346	V286	G226	T167	T107	G47
K829	V769	N889	ASP	K527	K527	PRO	PRO	N347	S287	T227	V168	K108	N48
K830	N770	L710	LEU	D528	D528	THR	THR	A348	I288	T228	V168	K108	N48
K831	M771	M711	ALA	Y529	Y529	SER	SER	L349	P289	T229	P170	A109	A49
K832	P771	SER	ALA	D530	D530	GLY	GLY	L350	Q290	L230	P170	A109	P50
K833	L772	ASN	ILE	A531	A531	THR	THR	G352	I291	T231	S171	S111	L51
K834	A773	ILE	VAL	F532	F532	THR	THR	G353	D292	A232	D172	A112	S52
K835	L774	GLY	GLN	D533	D533	THR	THR	F353	S293	V233	S173	S113	S53
K836	R775	GLN	THR	D534	D534	THR	THR	T354	I294	T234	K174	I114	V54
K837	V776	THR	THR	Y535	Y535	THR	THR	E355	S295	T234	L175	K115	B55
K838	H777	GLN	ALA	P536	P536	THR	THR	I356	L296	K236	A176	I116	E56
K839	L778	ALA	ALA	W537	W537	THR	THR	A358	S297	T237	T177	Y117	D57
K840	Q780	ALA	ALA	W538	W538	THR	THR	T359	S299	V239	L178	P118	K58
K841	D781	ALA	ALA	H539	H539	THR	THR	T360	D300	T240	T179	V119	D59
				A540	A540	THR	THR	E361	V301	W241	F181	S121	T61

THR	LYS	GLY	GLN	GLN	ALA	SER	LEU	LYS	ASP	SER	ARG	ILE	PRO	GLY	LYS	ARG	LEU	GLY	LYS	LYS
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• Molecule 7: Portal protein



MET	ALA	GLN	K5	Y6	S7	E8	E9	V10	L11	D12	E13	L14	R15	V16	D17	L18	Q19	R20	R21	F22	N23	Y24	A25	Q26	G27	Y28	V29	D30	K31	A32	V33	K34	G35	V36	A37	R38	E39	A40	W41	S42	Y43	F44	F45	O46	M47	L48	P49	A50	F51	Y52	L53	A54	G55	M56	S57	S58	W59	V60		
D61	R62	T63	V64	W65	E66	S67	V68	N69	G70	T71	L72	Q73	I75	W76	W77	W78	F79	C80	S81	G82	D83	E84	A85	W86	T87	F88	W89	D90	K91	N92	Q93	Q94	D95	S96	D97	A98	A99	D100	Y101	S102	A103	T104	O105	V106	N107	Q108	I109	L110	L111	R112	D113	M114	P115	G116	Y117	N118	I119	I120		
S121	S122	A123	A124	Q125	Q126	C127	L128	V129	T130	R131	S132	S133	F134	I135	K136	Y137	Y138	W139	D140	E141	T142	T143	THR	THR	GLU	GLU	ALA	ALA	GLY	VAL	PRO	PRO	GLU	ALA	ALA	ALA	ALA	TYR	VAL	GLN	GLY	LEU	LEU	ALA	ALA	ALA	ALA	LYS	ASN	LEU	GLU	VAL	PHE	THR	THR	GLU	GLU	ASN		
GLU	ASP	GLY	THR	VAL	ASP	VAL	LYS	V189	T190	Y191	E192	Q193	T194	V195	K196	R197	V198	W199	V200	E201	Y202	V203	P204	S205	E206	Q207	I208	F209	V210	D211	A212	H213	A214	T215	S216	F217	A218	D219	A220	Q221	Y222	F223	C224	H225	R226	V227	R228	R229	S230	K231	E232	D233	L234	V235	A236	M237	G238	F239	P240	
K241	D242	E243	I244	E245	A246	PHE	ASN	ASP	TRP	THR	ASP	THR	MET	ASP	T256	T257	Q258	S259	V261	A262	S264	R265	T266	D267	W268	R269	Q270	D271	L272	G273	A274	D275	T276	G277	T278	D279	E281	D282	I283	A284	S285	M286	V287	W288	V289	Y290	E291	I348	H292	Y293	I294	R295	T296	G297	V298	L299	D300			
K301	N302	K303	E304	S305	K306	L307	Y308	Q309	V310	I311	Q312	A313	G314	E315	H316	I317	L318	H319	T320	E321	E322	T324	H325	I326	P327	F328	V329	T330	F331	C332	P333	P335	I336	Y339	E397	M398	E399	R400	F340	Y341	G342	Q343	S344	V345	Y346	D347	T349	K350	D351	I352	Q353	D354	L355	R356	T357	A358	L359	V360		
R361	G362	Y363	I364	D365	N366	V367	N368	N369	A370	N371	Y372	G373	R374	Y375	K376	A377	L378	V379	G380	A381	Y382	D383	R384	R385	S386	L387	L388	D389	N390	R391	P392	G393	G394	V395	V396	E397	M398	E399	R400	Q401	D402	A403	I404	D405	L406	F407	P408	Y409	H410	N411	L412	P413	Q414	G415	I416	D417	G418	L419	L420	
G421	M422	S423	E424	L425	L426	K427	E428	T429	R430	T431	G432	V433	T434	K435	L436	G437	M438	G439	I440	N441	R442	D443	V444	F445	K446	N447	D448	N449	A450	Y451	A452	T453	V454	G455	L456	M457	M458	N459	A460	A461	Q462	M463	R464	L465	R466	M467	V468	C469	R470	N471	I472	A473	H474	N475	G476	M477	V478	E479	L480	
M481	R482	G483	I484	Y485	M486	L487	I488	R489	E490	M491	G492	E493	V494	P495	I496	E497	V498	Q499	P501	R502	G503	M504	I505	Q506	V507	M508	P509	K510	Q511	L512	P513	A514	R515	H516	M517	L518	Q519	V520	V521	V522	A523	I524	S525	P526	M527	E528	K529	A530	E531	R532	A533	Q534	K535	L536	I537	S538	L539	K540		
Q541	L542	I543	A544	A545	D546	A547	Q548	L549	A550	P551	L552	F553	G554	L555	E556	Q557	D558	R559	Y560	M561	T562	A563	Q564	I565	F566	E567	L568	M569	G570	I571	K572	D573	L574	T575	H576	K576	Y577	L578	L579	P580	L581	E582	Q583	L584	Q585	P586	P587	E588	P589	S590	P591	M592	E593	I594	L595	Q596	L597	E598	M599	T600
K601	A602	Q603	V604	E605	N606	V607	Q608	A609	S610	S611	Q612	K613	M614	I615	A616	D617	A618	F619	D620	Q621	R622	E623	R624	T625	T626	F627	E628	Q629	Q630	K631	A632	A633	D634	E635	L636	S637	L638	R639	Q640	E641	E642	L643	Q644	F645	K646	Q647	E648	N649	A650	A651	D652	A653	M654	T655	L656	E657	N658	R659	K660	
E661	ASP	ASN	ASN	ALA	THR	LEU	GLU	ALA	LYS	HIS	LYS	LEU	ALA	MET	GLN	GLN	GLN	VAL	ARG	ARG	GLN	TRP	GLU	SER	SER	VAL	LEU	LYS	GLU	LEU	LEU	MET	SER	HIS	GLN	VAL	ASP	GLN	GLY	ILE	VAL	VAL	GLN	GLN	ALA	ARG	VAL	GLN	ASP	THR	THR	LEU	GLU	LEU	GLN	LYS	LYS			

GLU
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LYS
LYS

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	9418	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 ($e^-/\text{\AA}^2$)	49	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	2700	Depositor
Magnification	59000	Depositor
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	0.130	Depositor
Minimum map value	-0.075	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.005	Depositor
Recommended contour level	0.04	Depositor
Map size (Å)	1788.48, 1788.48, 1788.48	wwPDB
Map dimensions	1296, 1296, 1296	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.38, 1.38, 1.38	Depositor

5 Model quality i

5.1 Standard geometry i

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	AA	0.25	0/2736	0.43	0/3706
1	AB	0.24	0/2736	0.41	0/3706
1	AC	0.25	0/2713	0.42	0/3673
1	AD	0.25	0/2736	0.43	0/3706
1	AE	0.25	0/2728	0.43	0/3694
1	AF	0.24	0/2727	0.41	0/3695
1	AG	0.25	0/2736	0.44	0/3706
1	AH	0.24	0/2736	0.43	0/3706
1	AI	0.25	0/2736	0.44	0/3706
1	AJ	0.24	0/2736	0.42	0/3706
1	AK	0.24	0/2736	0.42	0/3706
1	AL	0.25	0/2736	0.43	0/3706
1	AM	0.25	0/2713	0.43	0/3673
1	AN	0.25	0/2713	0.42	0/3673
1	AO	0.25	0/2713	0.42	0/3673
1	AP	0.24	0/2736	0.43	0/3706
1	AQ	0.25	0/2736	0.42	0/3706
1	AR	0.25	0/2736	0.42	0/3706
1	AS	0.24	0/2728	0.43	0/3694
1	AT	0.24	0/2728	0.44	0/3694
1	AU	0.25	0/2728	0.44	0/3694
1	AV	0.25	0/2727	0.42	0/3695
1	AW	0.24	0/2727	0.42	0/3695
1	AX	0.24	0/2727	0.42	0/3695
1	AY	0.25	0/2736	0.43	0/3706
1	AZ	0.24	0/2736	0.42	0/3706
1	BA	0.25	0/2713	0.42	0/3673
1	BB	0.25	0/2736	0.43	0/3706
1	BC	0.25	0/2728	0.43	0/3694
1	BD	0.24	0/2727	0.41	0/3695
1	BE	0.25	0/2736	0.44	0/3706
1	BF	0.24	0/2736	0.43	0/3706
1	BG	0.25	0/2736	0.44	0/3706
1	BH	0.24	0/2736	0.42	0/3706

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	BI	0.24	0/2736	0.42	0/3706
1	BJ	0.25	0/2736	0.43	0/3706
1	BK	0.25	0/2713	0.43	0/3673
1	BL	0.25	0/2713	0.42	0/3673
1	BM	0.25	0/2713	0.42	0/3673
1	BN	0.25	0/2736	0.43	0/3706
1	BO	0.25	0/2736	0.42	0/3706
1	BP	0.25	0/2736	0.42	0/3706
1	BQ	0.24	0/2728	0.43	0/3694
1	BR	0.24	0/2728	0.44	0/3694
1	BS	0.25	0/2728	0.44	0/3694
1	BT	0.25	0/2727	0.42	0/3695
1	BU	0.24	0/2727	0.42	0/3695
1	BV	0.24	0/2727	0.42	0/3695
1	BW	0.25	0/2723	0.44	0/3690
1	BX	0.24	0/2728	0.44	0/3694
1	BY	0.25	0/2736	0.43	0/3706
1	BZ	0.25	0/2720	0.43	0/3683
1	CA	0.24	0/2728	0.45	0/3694
1	CB	0.25	0/2727	0.44	0/3695
1	CC	0.24	0/2736	0.46	0/3706
1	CD	0.25	0/2706	0.45	0/3661
1	CE	0.25	0/2727	0.44	0/3695
1	CF	0.25	0/2693	0.43	0/3646
1	CG	0.25	0/2736	0.45	0/3706
1	CH	0.24	0/2736	0.42	0/3706
1	CI	0.25	0/2727	0.45	0/3695
1	CJ	0.25	0/2736	0.44	0/3706
1	CK	0.24	0/2736	0.44	0/3706
1	CL	0.25	0/2704	0.43	0/3662
1	CM	0.25	0/2727	0.45	0/3695
1	CN	0.25	0/2693	0.44	0/3646
1	CO	0.25	0/2686	0.45	0/3636
1	CP	0.25	0/2719	0.43	0/3683
1	CQ	0.25	0/2727	0.44	0/3695
1	CR	0.25	0/2720	0.44	0/3683
1	CS	0.25	0/2736	0.43	0/3706
1	CT	0.25	0/2728	0.42	0/3694
1	CU	0.25	0/2727	0.45	0/3695
1	CV	0.25	0/2736	0.43	0/3706
1	CW	0.25	0/2728	0.45	0/3694
1	CX	0.25	0/2727	0.43	0/3695
1	CY	0.25	0/2736	0.44	0/3706

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	CZ	0.25	0/2736	0.46	0/3706
1	DA	0.25	0/2728	0.44	0/3694
1	DB	0.25	0/2736	0.44	0/3706
1	DC	0.25	0/2720	0.44	0/3683
1	DD	0.25	0/2728	0.44	0/3694
1	DE	0.25	0/2727	0.44	0/3695
1	DF	0.25	0/2736	0.45	0/3706
1	DG	0.25	0/2706	0.45	0/3661
1	DH	0.25	0/2727	0.44	0/3695
1	DI	0.25	0/2736	0.43	0/3706
1	DJ	0.25	0/2727	0.45	0/3695
1	DK	0.25	0/2704	0.43	0/3662
1	DL	0.25	0/2727	0.44	0/3695
1	DM	0.24	0/2719	0.43	0/3683
1	DN	0.25	0/2727	0.44	0/3695
1	DO	0.25	0/2728	0.43	0/3694
1	DP	0.25	0/2727	0.44	0/3695
1	DQ	0.25	0/2727	0.42	0/3695
2	DR	0.26	0/1431	0.51	0/1867
2	DS	0.36	2/1435 (0.1%)	0.92	7/1872 (0.4%)
2	DT	0.28	0/1435	0.66	3/1872 (0.2%)
3	DU	0.89	0/1866	0.78	4/2545 (0.2%)
3	DV	1.10	11/1866 (0.6%)	1.48	27/2545 (1.1%)
4	DW	1.49	138/7215 (1.9%)	1.30	54/9852 (0.5%)
5	DX	0.67	1/693 (0.1%)	0.95	4/935 (0.4%)
5	DY	0.64	0/635	0.80	1/852 (0.1%)
5	DZ	0.97	1/552 (0.2%)	1.02	3/741 (0.4%)
6	EA	1.16	18/1288 (1.4%)	1.35	21/1607 (1.3%)
6	EB	0.69	0/1288	0.94	1/1607 (0.1%)
6	EC	0.95	6/1288 (0.5%)	1.12	11/1607 (0.7%)
7	ED	1.28	45/4930 (0.9%)	1.27	35/6682 (0.5%)
7	EE	1.28	46/4930 (0.9%)	1.26	37/6682 (0.6%)
All	All	0.44	268/289915 (0.1%)	0.56	208/392151 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AF	0	1
1	BD	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	CA	0	1
1	CC	0	2
1	DF	0	2
2	DT	0	1
3	DU	0	1
3	DV	1	6
4	DW	0	2
5	DX	0	2
5	DZ	0	1
6	EA	0	5
6	EB	0	7
6	EC	0	11
7	ED	0	1
All	All	1	44

All (268) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	DZ	41	TRP	C-O	15.14	1.52	1.23
6	EA	102	SER	C-O	14.54	1.50	1.23
6	EC	101	LEU	C-O	13.22	1.48	1.23
3	DV	28	ASP	C-O	-11.08	1.02	1.23
6	EA	101	LEU	C-O	10.11	1.42	1.23
4	DW	868	VAL	CB-CG1	-9.86	1.32	1.52
3	DV	24	ALA	C-O	-9.77	1.04	1.23
4	DW	968	VAL	CB-CG2	-9.38	1.33	1.52
6	EC	100	ASN	C-O	9.24	1.41	1.23
4	DW	968	VAL	CB-CG1	-8.82	1.34	1.52
4	DW	897	VAL	CB-CG1	-8.70	1.34	1.52
4	DW	596	ARG	CZ-NH1	-8.67	1.21	1.33
4	DW	828	VAL	CB-CG1	-8.64	1.34	1.52
6	EA	165	GLN	N-CA	8.47	1.63	1.46
3	DV	26	ARG	C-O	-8.43	1.07	1.23
4	DW	596	ARG	CZ-NH2	-8.43	1.22	1.33
4	DW	966	ARG	CZ-NH2	-8.30	1.22	1.33
4	DW	594	ARG	CZ-NH2	-8.22	1.22	1.33
4	DW	966	ARG	CZ-NH1	-8.22	1.22	1.33
4	DW	867	ARG	CZ-NH1	-8.19	1.22	1.33
3	DV	27	ASP	C-O	-8.15	1.07	1.23
7	EE	413	PRO	C-O	8.13	1.39	1.23
4	DW	867	ARG	CZ-NH2	-8.07	1.22	1.33
4	DW	929	ARG	CZ-NH2	-8.03	1.22	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	ED	413	PRO	C-O	8.03	1.39	1.23
4	DW	929	ARG	CZ-NH1	-8.03	1.22	1.33
4	DW	868	VAL	CB-CG2	-7.94	1.36	1.52
4	DW	1005	ARG	CZ-NH1	-7.91	1.22	1.33
6	EA	167	MET	N-CA	7.87	1.62	1.46
4	DW	1004	ARG	CZ-NH2	-7.87	1.22	1.33
7	EE	229	ARG	CZ-NH1	-7.82	1.22	1.33
7	EE	489	ARG	CZ-NH2	-7.78	1.23	1.33
4	DW	927	ARG	CZ-NH1	-7.75	1.23	1.33
7	EE	515	ARG	CZ-NH2	-7.75	1.23	1.33
7	ED	489	ARG	CZ-NH2	-7.74	1.23	1.33
7	ED	489	ARG	CZ-NH1	-7.71	1.23	1.33
7	ED	229	ARG	CZ-NH1	-7.70	1.23	1.33
4	DW	82	VAL	CB-CG1	-7.70	1.36	1.52
7	ED	229	ARG	CZ-NH2	-7.69	1.23	1.33
4	DW	1004	ARG	CZ-NH1	-7.69	1.23	1.33
4	DW	82	VAL	CB-CG2	-7.67	1.36	1.52
7	EE	229	ARG	CZ-NH2	-7.67	1.23	1.33
7	ED	515	ARG	CZ-NH2	-7.66	1.23	1.33
4	DW	541	VAL	CB-CG2	-7.65	1.36	1.52
4	DW	594	ARG	CZ-NH1	-7.65	1.23	1.33
4	DW	865	ARG	CZ-NH1	-7.58	1.23	1.33
4	DW	461	VAL	CB-CG1	-7.57	1.36	1.52
7	ED	639	ARG	CZ-NH2	-7.56	1.23	1.33
7	ED	515	ARG	CZ-NH1	-7.55	1.23	1.33
4	DW	508	VAL	CB-CG2	-7.54	1.37	1.52
7	EE	489	ARG	CZ-NH1	-7.53	1.23	1.33
7	EE	515	ARG	CZ-NH1	-7.53	1.23	1.33
7	EE	639	ARG	CZ-NH2	-7.52	1.23	1.33
4	DW	835	ARG	CZ-NH2	-7.51	1.23	1.33
3	DV	25	ASP	CA-C	-7.47	1.33	1.52
7	ED	112	ARG	CZ-NH2	-7.44	1.23	1.33
7	EE	639	ARG	CZ-NH1	-7.44	1.23	1.33
4	DW	728	VAL	CB-CG1	-7.43	1.37	1.52
3	DV	24	ALA	CA-CB	-7.43	1.36	1.52
7	ED	639	ARG	CZ-NH1	-7.41	1.23	1.33
7	EE	112	ARG	CZ-NH2	-7.40	1.23	1.33
4	DW	835	ARG	CZ-NH1	-7.35	1.23	1.33
4	DW	927	ARG	CZ-NH2	-7.27	1.23	1.33
4	DW	365	ARG	CZ-NH2	-7.26	1.23	1.33
4	DW	508	VAL	CB-CG1	-7.26	1.37	1.52
4	DW	1005	ARG	CZ-NH2	-7.24	1.23	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	EE	112	ARG	CZ-NH1	-7.21	1.23	1.33
3	DV	28	ASP	CA-C	-7.19	1.34	1.52
7	ED	112	ARG	CZ-NH1	-7.16	1.23	1.33
4	DW	541	VAL	CB-CG1	-7.11	1.38	1.52
4	DW	472	VAL	CB-CG1	-7.10	1.38	1.52
4	DW	365	ARG	CZ-NH1	-7.02	1.24	1.33
3	DV	25	ASP	C-O	-7.01	1.10	1.23
4	DW	688	TYR	CD1-CE1	-6.96	1.28	1.39
4	DW	54	VAL	CB-CG1	-6.94	1.38	1.52
4	DW	897	VAL	CB-CG2	-6.93	1.38	1.52
4	DW	728	VAL	CB-CG2	-6.92	1.38	1.52
4	DW	828	VAL	CB-CG2	-6.92	1.38	1.52
4	DW	688	TYR	CD2-CE2	-6.82	1.29	1.39
4	DW	66	VAL	CB-CG2	-6.82	1.38	1.52
4	DW	2	ALA	CA-CB	-6.80	1.38	1.52
6	EC	107	TRP	N-CA	6.78	1.59	1.46
6	EA	168	LYS	N-CA	6.76	1.59	1.46
4	DW	472	VAL	CB-CG2	-6.74	1.38	1.52
4	DW	960	TYR	CD2-CE2	-6.74	1.29	1.39
6	EA	163	LEU	N-CA	6.73	1.59	1.46
4	DW	461	VAL	CB-CG2	-6.73	1.38	1.52
4	DW	858	ARG	CZ-NH1	-6.68	1.24	1.33
4	DW	960	TYR	CD1-CE1	-6.60	1.29	1.39
6	EA	166	TYR	N-CA	6.49	1.59	1.46
4	DW	53	TYR	CD1-CE1	-6.49	1.29	1.39
4	DW	66	VAL	CB-CG1	-6.48	1.39	1.52
4	DW	53	TYR	CD2-CE2	-6.39	1.29	1.39
4	DW	935	SER	CA-CB	-6.38	1.43	1.52
6	EC	167	MET	N-CA	6.37	1.59	1.46
7	EE	289	VAL	CB-CG1	-6.35	1.39	1.52
7	ED	289	VAL	CB-CG1	-6.34	1.39	1.52
4	DW	865	ARG	CZ-NH2	-6.31	1.24	1.33
6	EA	164	SER	N-CA	6.29	1.58	1.46
4	DW	643	TYR	CD2-CE2	-6.25	1.29	1.39
6	EA	164	SER	C-N	6.24	1.48	1.34
4	DW	858	ARG	CZ-NH2	-6.23	1.25	1.33
7	EE	287	VAL	CB-CG2	-6.18	1.39	1.52
7	ED	287	VAL	CB-CG2	-6.18	1.39	1.52
4	DW	733	SER	CB-OG	-6.16	1.34	1.42
7	ED	106	VAL	CB-CG2	-6.16	1.40	1.52
4	DW	54	VAL	CB-CG2	-6.16	1.40	1.52
7	EE	106	VAL	CB-CG2	-6.15	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	DW	964	VAL	CB-CG2	-6.14	1.40	1.52
4	DW	643	TYR	CD1-CE1	-6.12	1.30	1.39
7	EE	560	TYR	CD2-CE2	-6.09	1.30	1.39
6	EA	165	GLN	CA-C	6.08	1.68	1.52
7	ED	485	TYR	CD1-CE1	-6.05	1.30	1.39
7	EE	560	TYR	CD1-CE1	-6.05	1.30	1.39
4	DW	76	GLY	N-CA	-6.03	1.37	1.46
7	ED	560	TYR	CD2-CE2	-6.02	1.30	1.39
7	EE	485	TYR	CD1-CE1	-5.99	1.30	1.39
6	EC	166	TYR	N-CA	5.99	1.58	1.46
7	ED	560	TYR	CD1-CE1	-5.99	1.30	1.39
7	ED	577	TYR	CD1-CE1	-5.99	1.30	1.39
7	EE	106	VAL	CB-CG1	-5.99	1.40	1.52
7	EE	289	VAL	CB-CG2	-5.98	1.40	1.52
7	EE	577	TYR	CD1-CE1	-5.98	1.30	1.39
7	ED	289	VAL	CB-CG2	-5.97	1.40	1.52
7	EE	314	GLY	N-CA	-5.97	1.37	1.46
7	EE	70	GLY	C-O	5.95	1.33	1.23
4	DW	934	GLY	N-CA	-5.95	1.37	1.46
7	ED	106	VAL	CB-CG1	-5.94	1.40	1.52
4	DW	964	VAL	CB-CG1	-5.93	1.40	1.52
4	DW	1001	VAL	CB-CG1	-5.93	1.40	1.52
4	DW	963	GLY	N-CA	-5.93	1.37	1.46
7	EE	577	TYR	CD2-CE2	-5.92	1.30	1.39
4	DW	732	GLY	N-CA	-5.91	1.37	1.46
4	DW	729	GLU	CB-CG	-5.90	1.41	1.52
6	EA	162	SER	N-CA	5.90	1.58	1.46
7	ED	314	GLY	N-CA	-5.88	1.37	1.46
7	ED	70	GLY	C-O	5.88	1.33	1.23
7	EE	287	VAL	CB-CG1	-5.85	1.40	1.52
4	DW	597	SER	CB-OG	-5.84	1.34	1.42
4	DW	994	GLY	N-CA	-5.82	1.37	1.46
4	DW	920	TRP	CD1-NE1	-5.82	1.28	1.38
4	DW	793	GLY	N-CA	-5.81	1.37	1.46
2	DS	23	TYR	CG-CD1	-5.81	1.31	1.39
4	DW	1001	VAL	CB-CG2	-5.81	1.40	1.52
4	DW	759	LYS	CE-NZ	-5.79	1.34	1.49
4	DW	928	PHE	CD2-CE2	-5.78	1.27	1.39
4	DW	1002	GLY	N-CA	-5.78	1.37	1.46
4	DW	935	SER	CB-OG	-5.78	1.34	1.42
7	ED	287	VAL	CB-CG1	-5.77	1.40	1.52
7	ED	485	TYR	CD2-CE2	-5.77	1.30	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	DW	626	SER	CB-OG	-5.76	1.34	1.42
7	EE	485	TYR	CD2-CE2	-5.76	1.30	1.39
3	DV	28	ASP	C-N	-5.75	1.20	1.34
7	ED	577	TYR	CD2-CE2	-5.72	1.30	1.39
4	DW	896	VAL	CB-CG1	-5.68	1.41	1.52
4	DW	752	SER	CB-OG	-5.66	1.34	1.42
4	DW	936	GLY	N-CA	-5.66	1.37	1.46
4	DW	856	VAL	CB-CG2	-5.65	1.41	1.52
6	EA	91	ILE	C-O	5.65	1.34	1.23
6	EA	165	GLN	C-N	5.64	1.47	1.34
7	EE	554	GLY	N-CA	-5.64	1.37	1.46
7	EE	82	GLY	N-CA	-5.64	1.37	1.46
7	ED	554	GLY	N-CA	-5.64	1.37	1.46
7	ED	82	GLY	N-CA	-5.64	1.37	1.46
4	DW	628	PHE	CD2-CE2	-5.63	1.27	1.39
7	ED	235	VAL	CB-CG2	-5.62	1.41	1.52
4	DW	998	GLU	CB-CG	-5.59	1.41	1.52
4	DW	211	SER	CB-OG	-5.58	1.34	1.42
7	EE	235	VAL	CB-CG2	-5.58	1.41	1.52
7	ED	301	LYS	CE-NZ	-5.57	1.35	1.49
7	EE	338	GLY	N-CA	-5.56	1.37	1.46
4	DW	1003	GLY	N-CA	-5.56	1.37	1.46
4	DW	74	SER	CB-OG	-5.56	1.35	1.42
4	DW	877	GLY	N-CA	-5.55	1.37	1.46
7	EE	285	SER	CB-OG	-5.55	1.35	1.42
4	DW	293	SER	CB-OG	-5.55	1.35	1.42
7	EE	301	LYS	CE-NZ	-5.54	1.35	1.49
7	ED	338	GLY	N-CA	-5.53	1.37	1.46
4	DW	316	SER	CB-OG	-5.53	1.35	1.42
7	ED	81	SER	CB-OG	-5.53	1.35	1.42
4	DW	628	PHE	CD1-CE1	-5.53	1.28	1.39
4	DW	83	GLY	N-CA	-5.51	1.37	1.46
6	EA	88	GLU	C-O	5.49	1.33	1.23
4	DW	15	ILE	CB-CG2	-5.49	1.35	1.52
7	ED	285	SER	CB-OG	-5.49	1.35	1.42
3	DV	25	ASP	CB-CG	5.49	1.63	1.51
7	EE	231	LYS	CE-NZ	-5.48	1.35	1.49
4	DW	920	TRP	CZ3-CH2	-5.48	1.31	1.40
6	EA	95	GLN	C-O	5.47	1.33	1.23
4	DW	597	SER	CA-CB	-5.47	1.44	1.52
4	DW	853	LYS	CE-NZ	-5.46	1.35	1.49
7	EE	81	SER	CB-OG	-5.46	1.35	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	ED	231	LYS	CE-NZ	-5.45	1.35	1.49
4	DW	834	GLU	CB-CG	-5.44	1.41	1.52
4	DW	454	SER	CB-OG	-5.42	1.35	1.42
7	ED	101	VAL	CB-CG2	-5.42	1.41	1.52
4	DW	920	TRP	CE3-CZ3	-5.42	1.29	1.38
4	DW	763	ILE	CB-CG2	-5.41	1.36	1.52
7	EE	101	VAL	CB-CG2	-5.40	1.41	1.52
4	DW	455	SER	CB-OG	-5.39	1.35	1.42
4	DW	755	SER	CB-OG	-5.38	1.35	1.42
4	DW	478	SER	CB-OG	-5.38	1.35	1.42
7	ED	368	ASN	C-O	5.37	1.33	1.23
4	DW	95	SER	CB-OG	-5.36	1.35	1.42
7	EE	235	VAL	CB-CG1	-5.36	1.41	1.52
4	DW	626	SER	CA-CB	-5.35	1.45	1.52
4	DW	78	SER	CB-OG	-5.35	1.35	1.42
4	DW	496	SER	CB-OG	-5.34	1.35	1.42
7	ED	5	LYS	CE-NZ	-5.34	1.35	1.49
4	DW	56	GLU	CB-CG	-5.34	1.42	1.52
7	EE	5	LYS	CE-NZ	-5.32	1.35	1.49
4	DW	279	LYS	CE-NZ	-5.32	1.35	1.49
7	ED	235	VAL	CB-CG1	-5.31	1.41	1.52
4	DW	67	SER	CB-OG	-5.30	1.35	1.42
4	DW	282	SER	CB-OG	-5.30	1.35	1.42
2	DS	22	ASP	C-N	-5.29	1.21	1.34
4	DW	242	SER	CB-OG	-5.29	1.35	1.42
7	ED	634	ASP	C-O	5.28	1.33	1.23
4	DW	499	SER	CB-OG	-5.28	1.35	1.42
7	EE	368	ASN	C-O	5.28	1.33	1.23
7	EE	510	LYS	CE-NZ	-5.28	1.35	1.49
4	DW	52	SER	CB-OG	-5.27	1.35	1.42
7	ED	7	SER	CB-OG	-5.27	1.35	1.42
7	ED	510	LYS	CE-NZ	-5.27	1.35	1.49
4	DW	462	SER	CB-OG	-5.27	1.35	1.42
4	DW	506	LYS	CE-NZ	-5.27	1.35	1.49
4	DW	366	VAL	CB-CG1	-5.27	1.41	1.52
4	DW	861	ALA	CA-CB	-5.26	1.41	1.52
4	DW	496	SER	CA-CB	-5.25	1.45	1.52
7	EE	7	SER	CB-OG	-5.25	1.35	1.42
4	DW	896	VAL	CB-CG2	-5.24	1.41	1.52
4	DW	928	PHE	CE1-CZ	-5.24	1.27	1.37
4	DW	596	ARG	CD-NE	-5.23	1.37	1.46
7	EE	525	SER	CB-OG	-5.22	1.35	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	EE	634	ASP	C-O	5.22	1.33	1.23
7	ED	572	LYS	CE-NZ	-5.21	1.36	1.49
4	DW	243	SER	CB-OG	-5.20	1.35	1.42
4	DW	295	SER	CA-CB	-5.20	1.45	1.52
7	ED	230	SER	CB-OG	-5.20	1.35	1.42
7	EE	572	LYS	CE-NZ	-5.19	1.36	1.49
4	DW	470	GLU	CB-CG	-5.18	1.42	1.52
7	ED	525	SER	CB-OG	-5.18	1.35	1.42
4	DW	927	ARG	CD-NE	-5.18	1.37	1.46
4	DW	16	ALA	CA-CB	-5.17	1.41	1.52
4	DW	962	ILE	CB-CG2	-5.17	1.36	1.52
5	DX	50	GLY	C-O	5.16	1.31	1.23
4	DW	646	VAL	CB-CG1	-5.15	1.42	1.52
4	DW	594	ARG	CD-NE	-5.13	1.37	1.46
4	DW	859	LYS	CE-NZ	-5.12	1.36	1.49
4	DW	867	ARG	CD-NE	-5.12	1.37	1.46
3	DV	24	ALA	CA-C	-5.11	1.39	1.52
4	DW	928	PHE	CE2-CZ	-5.11	1.27	1.37
7	ED	241	LYS	CE-NZ	-5.10	1.36	1.49
7	EE	230	SER	CB-OG	-5.10	1.35	1.42
6	EA	167	MET	C-N	5.10	1.45	1.34
4	DW	596	ARG	CB-CG	-5.08	1.38	1.52
7	EE	241	LYS	CE-NZ	-5.08	1.36	1.49
4	DW	930	PRO	N-CD	-5.07	1.40	1.47
7	EE	531	GLU	CB-CG	-5.07	1.42	1.52
6	EA	161	GLY	C-N	5.06	1.45	1.34
4	DW	675	SER	CB-OG	-5.05	1.35	1.42
4	DW	646	VAL	CB-CG2	-5.05	1.42	1.52
6	EC	83	ILE	C-O	5.05	1.32	1.23
7	EE	540	LYS	CE-NZ	-5.05	1.36	1.49
4	DW	471	ILE	CB-CG2	-5.05	1.37	1.52
7	ED	531	GLU	CB-CG	-5.03	1.42	1.52
4	DW	682	ILE	CB-CG2	-5.03	1.37	1.52
6	EA	166	TYR	C-N	5.03	1.45	1.34

All (208) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DV	24	ALA	CB-CA-C	-27.15	69.38	110.10
3	DV	27	ASP	CB-CA-C	-26.89	56.61	110.40
3	DV	26	ARG	CB-CA-C	-26.87	56.66	110.40
2	DS	23	TYR	CB-CG-CD1	-22.54	107.48	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DV	28	ASP	CB-CA-C	-19.23	71.94	110.40
5	DZ	40	TYR	O-C-N	-18.90	92.46	122.70
6	EA	165	GLN	N-CA-C	-17.34	64.17	111.00
2	DS	23	TYR	CB-CG-CD2	15.77	130.46	121.00
3	DV	26	ARG	CG-CD-NE	15.29	143.90	111.80
3	DV	26	ARG	CA-CB-CG	-12.82	85.20	113.40
2	DT	17	TYR	C-N-CD	-11.71	94.84	120.60
3	DV	28	ASP	N-CA-C	-11.03	81.21	111.00
3	DV	24	ALA	CA-C-O	-10.45	98.15	120.10
3	DV	25	ASP	N-CA-CB	9.89	128.41	110.60
3	DV	147	PRO	N-CA-CB	-9.60	91.78	103.30
6	EA	167	MET	N-CA-C	9.54	136.75	111.00
5	DX	63	TYR	CB-CA-C	9.52	129.43	110.40
6	EC	103	THR	CA-C-N	-9.42	96.47	117.20
2	DS	22	ASP	C-N-CA	-9.37	98.27	121.70
2	DS	23	TYR	CA-C-N	-9.31	96.72	117.20
4	DW	865	ARG	NE-CZ-NH2	9.18	124.89	120.30
6	EA	104	GLU	CA-C-N	-8.98	97.45	117.20
4	DW	892	ARG	NE-CZ-NH1	8.53	124.56	120.30
6	EC	107	TRP	N-CA-C	8.49	133.94	111.00
5	DX	49	PHE	CA-C-N	8.36	132.92	116.20
6	EA	165	GLN	CA-C-N	8.14	135.12	117.20
3	DU	139	PRO	N-CA-CB	-8.13	93.54	103.30
5	DX	49	PHE	CA-C-O	-8.10	103.09	120.10
3	DV	23	TRP	CA-C-N	-8.05	99.48	117.20
6	EB	114	PRO	N-CA-C	-8.05	91.17	112.10
2	DS	23	TYR	C-N-CA	-7.99	101.72	121.70
3	DU	144	PRO	N-CA-CB	-7.89	93.83	103.30
4	DW	223	ARG	NE-CZ-NH1	7.81	124.20	120.30
3	DV	26	ARG	N-CA-C	7.79	132.04	111.00
3	DV	25	ASP	CB-CG-OD2	7.74	125.27	118.30
7	EE	392	PRO	N-CA-CB	-7.52	94.28	103.30
2	DS	23	TYR	N-CA-CB	7.52	124.13	110.60
7	ED	392	PRO	N-CA-CB	-7.44	94.37	103.30
4	DW	1004	ARG	CD-NE-CZ	7.41	133.98	123.60
7	ED	466	ARG	NE-CZ-NH2	7.40	124.00	120.30
7	EE	466	ARG	NE-CZ-NH2	7.37	123.98	120.30
5	DX	48	LYS	O-C-N	7.34	134.45	122.70
4	DW	929	ARG	CD-NE-CZ	7.29	133.81	123.60
6	EA	101	LEU	O-C-N	7.27	134.34	122.70
3	DU	139	PRO	CA-N-CD	-7.22	101.39	111.50
7	ED	197	ARG	NE-CZ-NH1	7.22	123.91	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	EA	101	LEU	CA-C-O	-7.19	105.00	120.10
3	DV	25	ASP	N-CA-C	7.16	130.34	111.00
4	DW	865	ARG	NE-CZ-NH1	-7.13	116.73	120.30
7	EE	197	ARG	NE-CZ-NH1	7.13	123.86	120.30
4	DW	971	ARG	NE-CZ-NH1	7.07	123.83	120.30
4	DW	35	ARG	NE-CZ-NH1	7.07	123.83	120.30
4	DW	1005	ARG	CD-NE-CZ	6.96	133.34	123.60
7	ED	482	ARG	NE-CZ-NH2	6.95	123.77	120.30
7	EE	464	ARG	NE-CZ-NH2	6.93	123.77	120.30
5	DY	12	VAL	CG1-CB-CG2	6.92	121.97	110.90
4	DW	594	ARG	NE-CZ-NH2	-6.89	116.86	120.30
7	EE	361	ARG	NE-CZ-NH2	6.88	123.74	120.30
7	EE	482	ARG	NE-CZ-NH2	6.86	123.73	120.30
7	ED	464	ARG	NE-CZ-NH2	6.79	123.70	120.30
3	DU	139	PRO	N-CA-C	6.78	129.74	112.10
4	DW	928	PHE	CB-CG-CD2	6.78	125.55	120.80
4	DW	858	ARG	NE-CZ-NH1	-6.75	116.93	120.30
6	EA	113	PRO	N-CA-C	6.74	129.63	112.10
7	ED	361	ARG	NE-CZ-NH2	6.71	123.65	120.30
4	DW	594	ARG	NE-CZ-NH1	6.67	123.64	120.30
7	ED	112	ARG	CD-NE-CZ	6.64	132.90	123.60
4	DW	624	ARG	NE-CZ-NH2	6.60	123.60	120.30
3	DV	27	ASP	N-CA-CB	-6.59	98.73	110.60
6	EA	164	SER	CA-C-O	-6.59	106.26	120.10
3	DV	24	ALA	CA-C-N	6.58	131.68	117.20
6	EC	100	ASN	O-C-N	6.57	133.22	122.70
7	ED	639	ARG	CD-NE-CZ	6.57	132.80	123.60
7	EE	112	ARG	CD-NE-CZ	6.53	132.75	123.60
6	EA	103	THR	N-CA-C	-6.49	93.48	111.00
7	EE	639	ARG	CD-NE-CZ	6.49	132.68	123.60
7	EE	553	PHE	CB-CG-CD2	6.48	125.34	120.80
4	DW	865	ARG	CD-NE-CZ	6.45	132.63	123.60
4	DW	757	ARG	NE-CZ-NH1	6.45	123.52	120.30
6	EA	104	GLU	C-N-CA	-6.44	105.61	121.70
4	DW	905	ARG	NE-CZ-NH1	6.43	123.52	120.30
4	DW	858	ARG	CD-NE-CZ	6.41	132.57	123.60
4	DW	960	TYR	CB-CG-CD2	6.34	124.80	121.00
7	EE	485	TYR	CB-CG-CD2	6.34	124.80	121.00
7	ED	485	TYR	CB-CG-CD2	6.33	124.80	121.00
7	ED	553	PHE	CB-CG-CD2	6.28	125.19	120.80
6	EA	164	SER	CA-C-N	6.25	130.96	117.20
4	DW	817	ARG	NE-CZ-NH1	6.25	123.42	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	DW	966	ARG	CD-NE-CZ	6.24	132.33	123.60
4	DW	622	ARG	NE-CZ-NH2	6.23	123.41	120.30
7	ED	228	ARG	NE-CZ-NH2	6.22	123.41	120.30
2	DT	23	TYR	CB-CA-C	6.22	122.83	110.40
3	DV	28	ASP	CA-CB-CG	6.19	127.02	113.40
7	EE	566	PHE	CB-CG-CD2	6.16	125.11	120.80
7	EE	228	ARG	NE-CZ-NH2	6.11	123.36	120.30
4	DW	835	ARG	CD-NE-CZ	6.11	132.15	123.60
7	ED	566	PHE	CB-CG-CD2	6.10	125.07	120.80
7	ED	356	ARG	NE-CZ-NH2	6.09	123.35	120.30
3	DV	25	ASP	OD1-CG-OD2	-6.08	111.75	123.30
4	DW	596	ARG	NE-CZ-NH2	-6.02	117.29	120.30
6	EC	165	GLN	N-CA-C	-6.02	94.76	111.00
4	DW	608	ARG	NE-CZ-NH2	6.01	123.31	120.30
3	DV	28	ASP	C-N-CA	6.01	136.73	121.70
7	EE	112	ARG	NE-CZ-NH2	-6.01	117.30	120.30
7	EE	15	ARG	NE-CZ-NH2	6.00	123.30	120.30
4	DW	53	TYR	CB-CG-CD1	5.99	124.60	121.00
4	DW	867	ARG	CD-NE-CZ	5.99	131.99	123.60
7	ED	15	ARG	NE-CZ-NH2	5.99	123.29	120.30
7	ED	112	ARG	NE-CZ-NH2	-5.98	117.31	120.30
3	DV	25	ASP	CA-C-N	-5.98	104.04	117.20
7	EE	229	ARG	NE-CZ-NH2	-5.98	117.31	120.30
7	EE	356	ARG	NE-CZ-NH2	5.98	123.29	120.30
4	DW	688	TYR	CB-CG-CD2	5.98	124.59	121.00
7	ED	229	ARG	NE-CZ-NH2	-5.95	117.32	120.30
6	EC	102	SER	N-CA-C	-5.90	95.06	111.00
3	DV	137	TYR	CB-CA-C	5.87	122.15	110.40
4	DW	867	ARG	NE-CZ-NH1	-5.85	117.38	120.30
6	EC	100	ASN	CA-C-O	-5.84	107.83	120.10
4	DW	74	SER	N-CA-CB	5.83	119.24	110.50
7	EE	489	ARG	NE-CZ-NH1	-5.83	117.39	120.30
3	DV	28	ASP	CA-C-O	-5.81	107.90	120.10
7	ED	489	ARG	NE-CZ-NH1	-5.80	117.40	120.30
4	DW	835	ARG	NE-CZ-NH1	-5.79	117.40	120.30
4	DW	18	GLN	CA-CB-CG	5.79	126.13	113.40
6	EA	166	TYR	N-CA-C	5.79	126.63	111.00
6	EC	168	LYS	C-N-CA	5.78	136.14	121.70
6	EA	163	LEU	N-CA-C	5.77	126.59	111.00
3	DV	24	ALA	N-CA-CB	5.74	118.14	110.10
4	DW	865	ARG	CG-CD-NE	5.74	123.85	111.80
6	EA	69	LEU	O-C-N	-5.74	113.52	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	DV	23	TRP	C-N-CA	-5.73	107.39	121.70
4	DW	775	ARG	NE-CZ-NH2	5.68	123.14	120.30
4	DW	767	CYS	CA-CB-SG	5.66	124.19	114.00
4	DW	835	ARG	NE-CZ-NH2	5.66	123.13	120.30
2	DT	22	ASP	CB-CA-C	-5.64	99.12	110.40
6	EC	166	TYR	N-CA-C	5.63	126.21	111.00
7	ED	112	ARG	NE-CZ-NH1	5.62	123.11	120.30
7	ED	440	ILE	C-N-CA	5.61	135.73	121.70
7	EE	440	ILE	C-N-CA	5.59	135.69	121.70
4	DW	101	ARG	NE-CZ-NH1	5.59	123.10	120.30
4	DW	365	ARG	NE-CZ-NH1	-5.59	117.50	120.30
4	DW	80	LEU	CA-CB-CG	5.59	128.15	115.30
6	EA	105	ASP	CA-C-N	5.58	129.47	117.20
3	DV	24	ALA	C-N-CA	5.57	135.63	121.70
7	EE	112	ARG	NE-CZ-NH1	5.56	123.08	120.30
4	DW	1005	ARG	NE-CZ-NH1	-5.53	117.54	120.30
4	DW	835	ARG	CA-CB-CG	5.51	125.52	113.40
7	EE	577	TYR	CB-CG-CD2	5.48	124.29	121.00
7	ED	639	ARG	NE-CZ-NH1	-5.48	117.56	120.30
7	ED	489	ARG	CA-CB-CG	5.46	125.42	113.40
7	EE	392	PRO	N-CA-C	5.46	126.30	112.10
7	ED	577	TYR	CB-CG-CD2	5.46	124.27	121.00
7	ED	639	ARG	CG-CD-NE	5.45	123.25	111.80
4	DW	859	LYS	CA-CB-CG	5.45	125.39	113.40
6	EA	168	LYS	C-N-CA	5.44	135.31	121.70
6	EC	103	THR	C-N-CA	-5.44	108.09	121.70
4	DW	60	LEU	CA-CB-CG	5.44	127.82	115.30
7	ED	265	ARG	NE-CZ-NH1	5.43	123.02	120.30
6	EA	166	TYR	CA-C-O	-5.42	108.72	120.10
7	EE	489	ARG	CA-CB-CG	5.42	125.31	113.40
7	ED	392	PRO	N-CA-C	5.41	126.17	112.10
2	DS	23	TYR	CA-C-O	5.41	131.46	120.10
3	DV	25	ASP	O-C-N	5.41	131.36	122.70
7	EE	639	ARG	CG-CD-NE	5.40	123.14	111.80
4	DW	596	ARG	NE-CZ-NH1	5.39	122.99	120.30
7	ED	561	MET	CA-CB-CG	5.36	122.41	113.30
4	DW	643	TYR	CB-CG-CD2	5.35	124.21	121.00
5	DZ	41	TRP	N-CA-CB	-5.34	100.98	110.60
4	DW	929	ARG	CA-CB-CG	5.31	125.08	113.40
7	ED	639	ARG	NE-CZ-NH2	5.29	122.94	120.30
7	EE	561	MET	CA-CB-CG	5.28	122.28	113.30
7	EE	639	ARG	NE-CZ-NH1	-5.27	117.66	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	EA	162	SER	CA-C-N	5.27	128.78	117.20
7	ED	229	ARG	NE-CZ-NH1	5.24	122.92	120.30
4	DW	835	ARG	CG-CD-NE	5.24	122.80	111.80
7	EE	229	ARG	NE-CZ-NH1	5.23	122.92	120.30
7	EE	525	SER	N-CA-CB	5.23	118.34	110.50
7	ED	242	ASP	CB-CG-OD2	5.22	123.00	118.30
4	DW	540	ALA	N-CA-CB	5.21	117.40	110.10
7	EE	639	ARG	NE-CZ-NH2	5.21	122.90	120.30
7	EE	265	ARG	NE-CZ-NH1	5.20	122.90	120.30
4	DW	867	ARG	NE-CZ-NH2	5.20	122.90	120.30
4	DW	858	ARG	NE-CZ-NH2	5.20	122.90	120.30
4	DW	275	ASP	CB-CG-OD2	5.20	122.98	118.30
7	ED	285	SER	N-CA-CB	5.18	118.27	110.50
7	EE	285	SER	N-CA-CB	5.17	118.26	110.50
4	DW	1005	ARG	NE-CZ-NH2	5.16	122.88	120.30
6	EC	165	GLN	CA-C-N	5.16	128.54	117.20
6	EA	161	GLY	O-C-N	-5.14	114.48	122.70
7	ED	525	SER	N-CA-CB	5.14	118.21	110.50
7	EE	242	ASP	CB-CG-OD2	5.13	122.92	118.30
5	DZ	40	TYR	CA-C-N	5.12	128.46	117.20
7	EE	515	ARG	NE-CZ-NH1	-5.11	117.75	120.30
6	EC	166	TYR	C-N-CA	5.11	134.46	121.70
7	ED	515	ARG	CD-NE-CZ	5.09	130.72	123.60
6	EA	168	LYS	N-CA-C	5.09	124.73	111.00
4	DW	927	ARG	CA-CB-CG	5.08	124.58	113.40
7	EE	489	ARG	NE-CZ-NH2	5.07	122.84	120.30
7	ED	372	TYR	CA-C-N	5.07	126.34	116.20
4	DW	927	ARG	CD-NE-CZ	5.07	130.69	123.60
7	ED	515	ARG	NE-CZ-NH1	-5.05	117.78	120.30
7	EE	383	ASP	N-CA-CB	5.05	119.69	110.60
3	DV	150	ASN	N-CA-CB	5.04	119.67	110.60
7	EE	515	ARG	CD-NE-CZ	5.03	130.65	123.60
7	EE	374	ARG	NE-CZ-NH2	5.03	122.81	120.30
7	ED	383	ASP	N-CA-CB	5.02	119.64	110.60
6	EA	165	GLN	O-C-N	-5.01	114.68	122.70
7	EE	470	ARG	NE-CZ-NH2	5.00	122.80	120.30

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
3	DV	25	ASP	CA

All (44) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AF	213	PHE	Peptide
1	BD	213	PHE	Peptide
1	CA	144	THR	Peptide
1	CC	167	PHE	Peptide
1	CC	168	GLN	Peptide
1	DF	167	PHE	Peptide
1	DF	168	GLN	Peptide
2	DT	17	TYR	Peptide
3	DU	192	VAL	Peptide
3	DV	23	TRP	Mainchain
3	DV	24	ALA	Peptide,Mainchain
3	DV	25	ASP	Mainchain
3	DV	26	ARG	Mainchain
3	DV	28	ASP	Mainchain
4	DW	483	TYR	Sidechain
4	DW	694	GLU	Peptide
5	DX	49	PHE	Mainchain
5	DX	87	LEU	Mainchain
5	DZ	40	TYR	Mainchain
6	EA	15	THR	Peptide
6	EA	161	GLY	Mainchain
6	EA	208	ILE	Peptide
6	EA	218	PRO	Peptide
6	EA	6	PHE	Peptide
6	EB	175	THR	Peptide
6	EB	177	GLY	Peptide
6	EB	188	GLY	Peptide
6	EB	190	LYS	Peptide
6	EB	201	GLN	Peptide
6	EB	208	ILE	Peptide
6	EB	8	LYS	Peptide
6	EC	1	MET	Peptide
6	EC	103	THR	Mainchain
6	EC	166	TYR	Peptide
6	EC	175	THR	Peptide
6	EC	186	TYR	Peptide
6	EC	188	GLY	Peptide
6	EC	201	GLN	Peptide
6	EC	208	ILE	Peptide
6	EC	218	PRO	Peptide
6	EC	6	PHE	Peptide
6	EC	8	LYS	Peptide

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Mol	Chain	Res	Type	Group
7	ED	638	LEU	Mainchain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	2685	0	2651	29	0
1	AB	2685	0	2651	24	0
1	AC	2663	0	2631	33	0
1	AD	2685	0	2651	26	0
1	AE	2677	0	2646	26	0
1	AF	2676	0	2638	26	0
1	AG	2685	0	2651	27	0
1	AH	2685	0	2651	29	0
1	AI	2685	0	2651	23	0
1	AJ	2685	0	2651	23	0
1	AK	2685	0	2645	88	0
1	AL	2685	0	2651	23	0
1	AM	2663	0	2625	169	0
1	AN	2663	0	2631	26	0
1	AO	2663	0	2631	32	0
1	AP	2685	0	2626	376	0
1	AQ	2685	0	2651	26	0
1	AR	2685	0	2651	30	0
1	AS	2677	0	2641	155	0
1	AT	2677	0	2646	25	0
1	AU	2677	0	2646	26	0
1	AV	2676	0	2638	33	0
1	AW	2676	0	2619	212	0
1	AX	2676	0	2638	23	0
1	AY	2685	0	2651	27	0
1	AZ	2685	0	2651	26	0
1	BA	2663	0	2631	34	0
1	BB	2685	0	2651	27	0
1	BC	2677	0	2646	25	0
1	BD	2676	0	2638	23	0
1	BE	2685	0	2651	28	0
1	BF	2685	0	2651	52	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	BG	2685	0	2651	24	0
1	BH	2685	0	2651	22	0
1	BI	2685	0	2629	426	0
1	BJ	2685	0	2651	22	0
1	BK	2663	0	2622	168	0
1	BL	2663	0	2631	29	0
1	BM	2663	0	2631	31	0
1	BN	2685	0	2642	145	0
1	BO	2685	0	2651	26	0
1	BP	2685	0	2651	28	0
1	BQ	2677	0	2646	31	0
1	BR	2677	0	2646	27	0
1	BS	2677	0	2646	25	0
1	BT	2676	0	2638	29	0
1	BU	2676	0	2622	275	0
1	BV	2676	0	2638	24	0
1	BW	2672	0	2635	40	0
1	BX	2677	0	2646	53	0
1	BY	2685	0	2651	41	0
1	BZ	2670	0	2638	34	0
1	CA	2677	0	2646	45	0
1	CB	2676	0	2638	40	0
1	CC	2685	0	2651	33	0
1	CD	2657	0	2629	39	0
1	CE	2676	0	2638	45	0
1	CF	2644	0	2611	34	0
1	CG	2685	0	2651	38	0
1	CH	2685	0	2651	22	0
1	CI	2676	0	2638	28	0
1	CJ	2685	0	2651	26	0
1	CK	2685	0	2651	41	0
1	CL	2654	0	2618	41	0
1	CM	2676	0	2638	31	0
1	CN	2644	0	2608	118	0
1	CO	2637	0	2602	39	0
1	CP	2668	0	2633	37	0
1	CQ	2676	0	2638	43	0
1	CR	2670	0	2631	139	0
1	CS	2685	0	2642	275	0
1	CT	2677	0	2646	34	0
1	CU	2676	0	2638	48	0
1	CV	2685	0	2647	48	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	CW	2677	0	2629	165	0
1	CX	2676	0	2638	22	0
1	CY	2685	0	2651	37	0
1	CZ	2685	0	2647	95	0
1	DA	2677	0	2646	36	0
1	DB	2685	0	2649	117	0
1	DC	2670	0	2636	72	0
1	DD	2677	0	2646	68	0
1	DE	2676	0	2638	42	0
1	DF	2685	0	2651	44	0
1	DG	2657	0	2629	37	0
1	DH	2676	0	2634	172	0
1	DI	2685	0	2651	28	0
1	DJ	2676	0	2638	38	0
1	DK	2654	0	2606	204	0
1	DL	2676	0	2638	30	0
1	DM	2668	0	2633	104	0
1	DN	2676	0	2638	38	0
1	DO	2677	0	2642	53	0
1	DP	2676	0	2623	296	0
1	DQ	2676	0	2638	30	0
2	DR	1420	0	954	74	0
2	DS	1424	0	965	40	0
2	DT	1424	0	965	36	0
3	DU	1813	0	1736	191	0
3	DV	1813	0	1738	300	0
4	DW	7063	0	6881	199	0
5	DX	683	0	653	167	0
5	DY	628	0	610	132	0
5	DZ	545	0	536	116	0
6	EA	1289	0	384	10	0
6	EB	1289	0	384	10	0
6	EC	1289	0	384	18	0
7	ED	4838	0	4692	509	0
7	EE	4838	0	4692	462	0
All	All	284597	0	276368	5691	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 10.

All (5691) 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:BI:96:THR:HB	1:DM:152:VAL:CG2	1.26	1.63
1:AW:16:LYS:HG3	1:BK:103:TYR:CD2	1.21	1.62
1:AP:320:SER:CB	1:CZ:65:GLU:CG	1.74	1.62
1:BI:92:ARG:CZ	1:DK:6:LEU:HD23	1.20	1.62
1:AP:79:ILE:HD13	1:CR:147:ALA:CB	1.15	1.61
1:BI:147:ALA:HA	1:DH:79:ILE:CG2	1.19	1.61
1:BU:14:GLY:CA	1:DP:102:ASN:HD21	1.09	1.61
1:AP:96:THR:CG2	1:CZ:65:GLU:H	1.05	1.60
1:BI:103:TYR:CA	1:DK:15:LYS:HB2	1.19	1.59
4:DW:748:ALA:CB	6:EC:23:PHE:H	1.03	1.59
1:AW:7:PHE:CE1	1:BK:97:ALA:HB1	1.36	1.58
1:AK:145:ASN:ND2	1:BN:145:ASN:CB	1.67	1.58
1:AW:16:LYS:CA	1:BK:103:TYR:HE2	1.16	1.56
1:BI:147:ALA:CA	1:DH:79:ILE:HG21	1.27	1.56
1:AP:144:THR:CG2	1:CR:141:GLN:HG3	1.16	1.56
1:BI:144:THR:CG2	1:DH:143:LEU:HD23	1.28	1.55
1:AM:97:ALA:CB	1:CN:9:SER:HB2	1.28	1.55
1:DB:16:LYS:HG2	3:DV:234:ARG:CD	1.13	1.55
1:AP:92:ARG:NH2	1:CS:5:THR:CB	1.68	1.54
1:AW:16:LYS:HA	1:BK:103:TYR:CE2	1.43	1.53
7:ED:379:VAL:CG2	7:EE:398:MET:CG	1.79	1.53
1:DB:16:LYS:CG	3:DV:234:ARG:CD	1.81	1.53
1:BI:92:ARG:CZ	1:DK:6:LEU:CD2	1.85	1.53
2:DR:20:ASP:C	4:DW:856:VAL:HG11	1.24	1.53
1:AP:79:ILE:CD1	1:CR:147:ALA:HB1	1.32	1.52
1:AP:144:THR:HG21	1:CR:141:GLN:CG	1.07	1.52
1:BI:145:ASN:CA	1:DP:19:PHE:CE2	1.79	1.52
1:BI:7:PHE:CZ	1:DK:92:ARG:HD3	1.44	1.52
1:AW:16:LYS:CA	1:BK:103:TYR:CE2	1.90	1.51
1:BI:7:PHE:CD2	1:DK:92:ARG:HD2	1.43	1.51
7:ED:628:GLU:CG	7:EE:627:PHE:CE2	1.77	1.51
1:BI:145:ASN:HA	1:DP:19:PHE:CE2	0.97	1.50
1:BU:5:THR:N	1:DH:74:MET:CB	1.69	1.50
1:BI:145:ASN:CA	1:DP:19:PHE:CZ	1.76	1.50
1:AM:103:TYR:CD2	1:CN:16:LYS:HG2	1.42	1.50
1:BU:94:SER:CB	1:DP:8:VAL:HA	1.35	1.50
1:BI:315:LEU:HD22	1:DP:318:ASP:CG	1.28	1.49
1:AP:8:VAL:CB	1:CS:96:THR:HG21	1.05	1.49
7:ED:628:GLU:CG	7:EE:627:PHE:CD2	1.76	1.49
7:ED:131:ARG:CZ	7:EE:269:ARG:HH12	1.24	1.49
1:BI:96:THR:CB	1:DM:152:VAL:HG21	1.05	1.49
1:BI:105:ARG:N	1:DK:14:GLY:CA	1.72	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ED:379:VAL:HG21	7:EE:398:MET:CG	1.01	1.48
1:BU:4:PRO:HA	1:DH:74:MET:CB	1.38	1.48
7:ED:625:THR:CG2	7:EE:624:ARG:HH22	1.25	1.48
1:BU:94:SER:HB2	1:DP:8:VAL:CA	1.07	1.48
1:AP:8:VAL:HB	1:CS:96:THR:CG2	1.39	1.47
3:DU:26:ARG:HG2	4:DW:973:ASN:CG	1.21	1.47
3:DU:26:ARG:HG2	4:DW:973:ASN:ND2	1.28	1.47
1:BU:4:PRO:CA	1:DH:74:MET:HB2	1.39	1.47
1:AS:73:GLU:HG3	1:CS:3:ASN:C	1.19	1.47
1:BI:147:ALA:C	1:DH:79:ILE:HG13	1.31	1.47
1:DB:312:ARG:HH11	7:ED:31:MET:CE	1.27	1.47
1:BI:103:TYR:HA	1:DK:15:LYS:CB	1.00	1.47
1:AW:16:LYS:CG	1:BK:103:TYR:CD2	1.96	1.46
1:AM:7:PHE:CZ	1:CN:108:GLU:OE2	1.68	1.46
7:ED:430:ARG:HG2	7:EE:66:GLU:CG	1.41	1.46
1:BI:147:ALA:HA	1:DH:79:ILE:CB	1.44	1.45
1:BI:92:ARG:NE	1:DK:6:LEU:HD23	1.28	1.45
7:ED:131:ARG:NH2	7:EE:269:ARG:HH12	1.10	1.45
1:BI:96:THR:CG2	1:DM:152:VAL:HG11	1.43	1.45
1:BI:145:ASN:HA	1:DP:19:PHE:CZ	0.94	1.45
1:DB:16:LYS:CG	3:DV:234:ARG:HD3	1.41	1.45
1:BI:147:ALA:H	1:DH:143:LEU:CD1	1.25	1.45
1:BU:92:ARG:CG	1:DP:6:LEU:HA	1.46	1.44
7:ED:410:HIS:HA	7:EE:406:LEU:CD1	1.45	1.44
1:AW:99:THR:HA	1:BN:308:ARG:CG	1.48	1.44
5:DX:85:ALA:HB2	5:DZ:88:MET:CE	1.45	1.43
1:AP:79:ILE:CD1	1:CR:147:ALA:CB	1.88	1.43
1:AP:104:GLY:O	1:CS:15:LYS:CG	1.63	1.43
7:ED:466:ARG:NH1	7:EE:77:ASN:HD22	1.17	1.43
1:BI:148:ALA:N	1:DH:79:ILE:HG13	1.32	1.42
4:DW:707:TYR:HE1	6:EB:56:ASP:CA	1.33	1.42
5:DX:85:ALA:CB	5:DZ:88:MET:SD	2.08	1.42
1:BI:147:ALA:N	1:DH:143:LEU:HD11	1.10	1.42
1:AM:101:ALA:N	1:CR:44:GLN:HE22	1.04	1.41
1:DB:39:LYS:CD	7:ED:16:VAL:HG13	1.49	1.41
5:DX:61:ARG:HD3	5:DY:63:TYR:CE2	1.55	1.41
1:AW:13:ASN:CB	1:BN:77:THR:OG1	1.68	1.41
7:ED:410:HIS:HE2	7:EE:373:GLY:C	1.18	1.41
1:AP:320:SER:HB2	1:CZ:65:GLU:CG	0.95	1.41
2:DR:20:ASP:C	4:DW:856:VAL:CG1	1.88	1.41
1:AK:145:ASN:ND2	1:BN:145:ASN:CG	1.71	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:7:PHE:CD1	1:BK:97:ALA:CB	2.04	1.41
7:ED:649:ASN:ND2	7:EE:648:GLU:CG	1.73	1.40
1:AM:101:ALA:H	1:CR:44:GLN:NE2	1.15	1.40
1:BU:3:ASN:ND2	1:DH:75:LYS:CG	1.77	1.40
1:BU:14:GLY:HA3	1:DP:102:ASN:ND2	1.18	1.40
7:ED:338:GLY:HA3	7:EE:263:TRP:CZ2	1.56	1.40
1:BI:322:GLU:O	1:DK:7:PHE:CB	1.66	1.40
1:AW:6:LEU:CD1	1:BK:92:ARG:HH11	1.35	1.39
1:AP:8:VAL:CB	1:CS:96:THR:CG2	1.95	1.39
1:BU:5:THR:N	1:DH:74:MET:HB3	1.09	1.39
1:BI:144:THR:HG23	1:DH:143:LEU:CD2	1.52	1.38
2:DR:21:ARG:N	4:DW:856:VAL:HG11	1.35	1.38
7:ED:21:ARG:NH2	7:ED:294:ILE:HD11	1.38	1.38
1:AM:317:LYS:C	1:CV:68:ARG:HE	1.05	1.37
1:AP:92:ARG:CZ	1:CS:6:LEU:N	1.74	1.37
1:AW:7:PHE:CD1	1:BK:97:ALA:HB3	1.57	1.37
1:AW:14:GLY:C	1:BK:103:TYR:CE1	1.98	1.37
7:ED:301:LYS:CD	7:EE:283:ILE:HG22	1.35	1.37
1:AP:145:ASN:OD1	1:CR:145:ASN:ND2	1.58	1.37
7:ED:660:LYS:HE3	7:EE:658:ASN:CB	1.55	1.37
1:AW:7:PHE:CE1	1:BK:97:ALA:CB	2.05	1.37
1:AP:13:ASN:N	1:CS:105:ARG:HH12	1.17	1.36
1:AW:6:LEU:CD2	1:BK:92:ARG:NH1	1.85	1.36
1:BI:92:ARG:NH2	1:DK:6:LEU:CD2	1.86	1.36
1:AW:99:THR:CA	1:BN:308:ARG:HG3	1.55	1.36
1:BI:96:THR:CB	1:DM:152:VAL:CG2	1.85	1.35
7:ED:467:MET:CE	7:EE:72:LEU:HD23	1.53	1.35
1:BI:72:GLY:N	1:DP:4:PRO:O	1.59	1.35
1:BI:95:ASP:O	1:DK:10:TYR:CD1	1.80	1.35
1:BI:13:ASN:HB2	1:DM:76:PRO:CG	1.55	1.35
1:AM:6:LEU:N	1:CR:74:MET:HG2	1.40	1.35
1:AW:108:GLU:OE2	1:BK:12:GLN:HG2	1.26	1.35
7:ED:552:LEU:HD21	7:EE:578:LEU:C	1.45	1.35
7:EE:21:ARG:NH2	7:EE:294:ILE:HD11	1.38	1.35
1:AP:5:THR:CG2	1:CW:74:MET:HB2	1.39	1.35
5:DX:68:LEU:HD21	5:DY:70:LYS:NZ	1.37	1.35
7:ED:516:HIS:HB3	7:EE:108:GLN:NE2	1.05	1.34
7:ED:372:TYR:CE2	7:EE:392:PRO:HD3	1.62	1.34
1:BI:95:ASP:O	1:DK:10:TYR:CG	1.80	1.34
1:BU:92:ARG:O	1:DP:7:PHE:CB	1.74	1.34
1:DB:39:LYS:HB3	7:ED:16:VAL:CG1	1.56	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:26:ARG:CG	4:DW:973:ASN:OD1	1.73	1.34
4:DW:748:ALA:CB	6:EC:23:PHE:N	1.87	1.33
7:ED:337:PRO:HD3	7:EE:125:GLN:NE2	1.42	1.33
7:ED:379:VAL:CG2	7:EE:398:MET:CB	2.06	1.33
1:BU:103:TYR:O	1:DP:16:LYS:CG	1.75	1.33
1:AW:16:LYS:HG3	1:BK:103:TYR:CE2	1.62	1.33
1:BI:74:MET:CE	1:DP:4:PRO:HB3	1.57	1.33
1:BI:103:TYR:N	1:DK:15:LYS:HG3	1.41	1.33
7:ED:625:THR:HG22	7:EE:624:ARG:NH2	1.43	1.33
1:AP:96:THR:CG2	1:CZ:65:GLU:N	1.88	1.32
7:ED:410:HIS:CA	7:EE:406:LEU:HD11	1.56	1.32
4:DW:311:LEU:CD1	4:DW:372:ARG:HH21	1.43	1.32
1:BU:318:ASP:HA	1:DH:314:GLU:O	1.20	1.32
1:DC:144:THR:HA	3:DV:85:ASP:CB	1.44	1.32
1:AS:65:GLU:CB	1:CN:320:SER:OG	1.77	1.32
1:AW:100:THR:CG2	1:BN:84:THR:HG21	1.57	1.32
7:ED:301:LYS:CG	7:EE:283:ILE:HG22	1.59	1.32
1:BI:96:THR:OG1	1:DM:152:VAL:HG21	1.24	1.31
7:ED:131:ARG:NH2	7:EE:269:ARG:NH1	1.77	1.31
7:ED:305:SER:CB	7:EE:284:ALA:HB2	1.58	1.31
7:ED:466:ARG:NH1	7:EE:77:ASN:ND2	1.73	1.31
1:DB:39:LYS:CB	7:ED:16:VAL:HG11	1.60	1.31
2:DR:24:ILE:HG21	4:DW:857:TRP:CD1	1.63	1.31
7:ED:410:HIS:CD2	7:EE:373:GLY:CA	2.12	1.31
7:ED:516:HIS:CB	7:EE:108:GLN:NE2	1.92	1.31
7:ED:131:ARG:CZ	7:EE:269:ARG:NH1	1.92	1.31
5:DX:74:GLU:OE2	5:DZ:81:LYS:HE2	1.25	1.31
1:AP:17:LEU:CD2	1:CW:145:ASN:CB	1.95	1.30
1:AS:78:VAL:N	1:CW:149:ASP:O	1.64	1.30
3:DV:162:GLU:OE1	5:DX:14:ASN:CG	1.68	1.30
5:DX:59:VAL:HG12	5:DX:63:TYR:OH	1.27	1.30
1:AP:320:SER:CB	1:CZ:65:GLU:HG2	1.42	1.29
1:AP:104:GLY:CA	1:CS:15:LYS:HG3	1.49	1.29
1:BU:94:SER:CB	1:DP:8:VAL:CA	1.96	1.29
1:AW:99:THR:OG1	1:BN:308:ARG:HD3	1.31	1.29
5:DX:85:ALA:CB	5:DZ:88:MET:CE	2.09	1.29
1:AM:100:THR:HG21	1:CN:11:ASP:OD1	1.17	1.28
1:BI:74:MET:CE	1:DP:4:PRO:CB	2.10	1.28
5:DX:85:ALA:HB2	5:DZ:88:MET:SD	1.69	1.28
1:AS:145:ASN:ND2	1:CW:145:ASN:HD21	1.28	1.28
4:DW:707:TYR:CE1	6:EB:56:ASP:CA	2.17	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ED:304:GLU:HA	7:EE:232:GLU:OE1	1.17	1.28
1:AP:144:THR:O	1:CR:142:TYR:HA	1.28	1.28
1:BI:76:PRO:C	1:DP:13:ASN:HD21	1.00	1.28
4:DW:311:LEU:HD12	4:DW:372:ARG:NH2	1.47	1.28
7:ED:552:LEU:CD2	7:EE:579:LEU:O	1.82	1.28
1:AM:319:GLY:O	1:CV:68:ARG:CD	1.79	1.27
1:AP:8:VAL:HA	1:CS:96:THR:OG1	1.15	1.27
1:DB:39:LYS:CG	7:ED:16:VAL:HG13	1.64	1.27
1:BU:13:ASN:N	1:DP:105:ARG:HH12	1.29	1.27
1:BI:92:ARG:CG	1:DK:6:LEU:HB2	1.52	1.27
1:BI:147:ALA:CA	1:DH:79:ILE:HG13	1.65	1.27
1:BU:5:THR:N	1:DH:74:MET:CA	1.96	1.26
1:AS:143:LEU:O	1:CW:143:LEU:HD23	1.34	1.26
1:BI:315:LEU:CD2	1:DP:318:ASP:CG	2.04	1.26
1:BU:92:ARG:O	1:DP:7:PHE:HB3	1.11	1.26
1:AM:103:TYR:HD2	1:CN:16:LYS:CG	1.47	1.26
7:ED:628:GLU:OE2	7:EE:627:PHE:CE1	1.87	1.25
3:DU:26:ARG:CG	4:DW:973:ASN:CG	2.03	1.25
1:AP:92:ARG:NH2	1:CS:5:THR:HB	0.94	1.25
1:AW:102:ASN:O	1:BN:43:ASN:HB2	1.31	1.25
7:ED:552:LEU:CD2	7:EE:579:LEU:N	1.79	1.25
7:ED:607:VAL:HG13	7:EE:606:ASN:OD1	1.35	1.25
7:ED:456:LEU:CB	7:EE:438:MET:HE3	1.66	1.25
1:AM:97:ALA:HB2	1:CN:9:SER:CB	1.66	1.24
1:AP:3:ASN:O	1:CW:74:MET:HG3	1.28	1.24
1:BU:14:GLY:CA	1:DP:102:ASN:ND2	1.77	1.24
7:ED:20:ARG:HH22	7:EE:279:ASP:CB	1.49	1.24
1:AK:142:TYR:HB2	1:BN:146:SER:OG	1.38	1.24
1:AP:108:GLU:CB	1:CS:7:PHE:CE1	2.19	1.24
1:BI:148:ALA:N	1:DH:79:ILE:CG1	1.99	1.24
1:AP:3:ASN:C	1:CW:75:LYS:HG2	1.57	1.24
1:AP:141:GLN:NE2	1:CR:143:LEU:CB	1.92	1.24
3:DU:26:ARG:HG3	4:DW:922:GLN:OE1	1.33	1.24
1:AM:6:LEU:HD12	1:CN:92:ARG:NH1	1.53	1.24
7:ED:410:HIS:NE2	7:EE:373:GLY:C	1.88	1.24
1:BI:7:PHE:CG	1:DK:92:ARG:HD2	1.39	1.23
1:BI:147:ALA:N	1:DH:143:LEU:CD1	1.90	1.23
1:BI:147:ALA:N	1:DH:79:ILE:HG21	1.48	1.23
1:BU:12:GLN:HB2	1:DP:97:ALA:CA	1.68	1.23
1:BU:12:GLN:CB	1:DP:97:ALA:HA	1.66	1.23
7:ED:456:LEU:HG	7:EE:438:MET:CE	1.68	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:102:ASN:O	1:BN:43:ASN:CB	1.86	1.23
1:AP:4:PRO:N	1:CW:75:LYS:HG2	1.43	1.23
1:AP:105:ARG:CB	1:CS:12:GLN:HG2	1.68	1.23
1:BI:322:GLU:O	1:DK:7:PHE:CG	1.91	1.23
1:DB:312:ARG:NH1	7:ED:31:MET:SD	2.11	1.23
1:AS:73:GLU:CG	1:CS:3:ASN:C	2.06	1.23
1:BU:92:ARG:C	1:DP:6:LEU:O	1.77	1.23
5:DY:81:LYS:HA	5:DZ:80:PHE:CZ	1.74	1.23
7:ED:625:THR:CG2	7:EE:624:ARG:NH2	2.00	1.23
1:AP:103:TYR:O	1:CS:16:LYS:CD	1.85	1.23
1:BI:7:PHE:CG	1:DK:92:ARG:CD	2.18	1.23
3:DV:69:TYR:CD1	5:DY:33:GLU:OE2	1.90	1.23
1:BI:92:ARG:CD	1:DK:6:LEU:HB2	1.67	1.22
1:BI:104:GLY:N	1:DK:13:ASN:O	1.70	1.22
7:ED:20:ARG:NH2	7:EE:279:ASP:HB2	1.51	1.22
7:ED:131:ARG:CD	7:EE:269:ARG:HH22	1.51	1.22
1:AM:97:ALA:CB	1:CN:9:SER:CB	2.14	1.22
1:AW:14:GLY:C	1:BK:103:TYR:HE1	1.32	1.22
3:DV:54:PRO:O	5:DY:21:THR:HA	1.14	1.22
7:ED:550:ALA:C	7:EE:584:TYR:OH	1.75	1.22
1:AP:145:ASN:CG	1:CR:145:ASN:ND2	1.78	1.22
1:AS:73:GLU:HG3	1:CS:3:ASN:O	1.37	1.22
1:AS:73:GLU:CD	1:CS:4:PRO:CA	1.96	1.21
1:AS:143:LEU:C	1:CW:142:TYR:O	1.66	1.21
1:AW:105:ARG:CD	1:BK:15:LYS:HG3	1.63	1.21
1:BI:320:SER:O	1:DM:153:ALA:CB	1.88	1.21
7:ED:301:LYS:HD2	7:EE:283:ILE:CG2	1.64	1.21
1:AP:4:PRO:CA	1:CW:75:LYS:HG2	1.68	1.21
1:BI:74:MET:HE3	1:DP:4:PRO:CB	1.69	1.21
7:ED:467:MET:HE1	7:EE:72:LEU:CD2	1.69	1.21
7:ED:635:GLU:HG3	7:EE:634:ASP:OD2	1.31	1.21
1:AP:320:SER:HB2	1:CZ:65:GLU:CD	1.57	1.21
1:BI:109:LEU:HB2	1:DK:9:SER:OG	1.41	1.21
1:DB:312:ARG:NH1	7:ED:31:MET:CE	2.01	1.21
1:BI:322:GLU:O	1:DK:7:PHE:HB3	1.03	1.21
7:ED:301:LYS:O	7:EE:283:ILE:HG21	1.37	1.21
1:AP:7:PHE:CZ	1:CW:75:LYS:HG3	1.75	1.20
1:AW:13:ASN:HB2	1:BN:77:THR:OG1	1.09	1.20
1:BI:102:ASN:ND2	1:DK:11:ASP:O	1.74	1.20
3:DU:26:ARG:CA	4:DW:973:ASN:OD1	1.87	1.20
1:AM:92:ARG:NH1	1:CR:156:ASN:ND2	1.89	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:315:LEU:CD2	1:DP:318:ASP:OD2	1.89	1.20
2:DS:23:TYR:HA	4:DW:845:ILE:O	1.36	1.20
5:DY:81:LYS:HB3	5:DY:82:ASP:N	1.57	1.20
7:ED:305:SER:OG	7:EE:284:ALA:HB2	1.40	1.20
1:AP:144:THR:CB	1:CR:141:GLN:HG3	1.69	1.20
1:BI:7:PHE:CE1	1:DK:92:ARG:CD	2.14	1.20
1:BI:143:LEU:C	1:DP:17:LEU:HD11	1.59	1.20
1:BI:315:LEU:HD22	1:DP:318:ASP:OD2	1.04	1.20
2:DS:20:ASP:HB3	4:DW:848:ASP:OD2	1.40	1.20
7:ED:430:ARG:CG	7:EE:66:GLU:HG2	1.70	1.20
1:BI:73:GLU:OE2	1:DP:4:PRO:HD3	1.40	1.20
1:BU:8:VAL:HG23	1:DP:96:THR:OG1	1.42	1.20
1:AW:99:THR:OG1	1:BN:308:ARG:CD	1.90	1.19
1:DB:16:LYS:CG	3:DV:234:ARG:HD2	1.52	1.19
7:ED:337:PRO:CD	7:EE:125:GLN:HE21	1.55	1.19
1:AP:103:TYR:O	1:CS:16:LYS:HD3	1.37	1.19
1:BI:322:GLU:O	1:DK:7:PHE:CD2	1.94	1.19
1:BU:3:ASN:HD22	1:DH:75:LYS:CG	1.36	1.19
1:BU:99:THR:CB	1:DH:307:LEU:HD23	1.70	1.19
7:ED:301:LYS:HG3	7:EE:283:ILE:CB	1.69	1.19
7:EE:21:ARG:NH2	7:EE:294:ILE:CD1	2.04	1.19
1:BI:7:PHE:CZ	1:DK:92:ARG:CD	2.26	1.19
1:BI:147:ALA:CA	1:DH:79:ILE:CB	2.18	1.19
1:BI:322:GLU:HB3	1:DK:7:PHE:O	1.36	1.19
3:DU:138:TYR:CD1	3:DU:145:LEU:HD22	1.77	1.19
1:AW:6:LEU:HD13	1:BK:92:ARG:NE	1.57	1.19
1:BI:72:GLY:C	1:DP:4:PRO:O	1.81	1.19
1:BI:317:LYS:NZ	1:DO:65:GLU:HG3	1.58	1.19
7:ED:660:LYS:CE	7:EE:658:ASN:HB3	1.70	1.19
7:ED:456:LEU:CG	7:EE:438:MET:HE1	1.71	1.18
7:ED:467:MET:CE	7:EE:72:LEU:CD2	2.20	1.18
1:AM:6:LEU:CD1	1:CN:92:ARG:HH11	1.56	1.18
1:BI:147:ALA:HA	1:DH:79:ILE:CG1	1.73	1.18
1:BU:99:THR:HB	1:DH:307:LEU:CD2	1.73	1.18
3:DV:124:ARG:HH12	5:DZ:28:TYR:HB2	1.03	1.18
7:ED:607:VAL:CG1	7:EE:606:ASN:OD1	1.91	1.18
7:ED:21:ARG:NH2	7:ED:294:ILE:CD1	2.04	1.18
1:BI:76:PRO:C	1:DP:13:ASN:ND2	1.83	1.18
1:AM:7:PHE:CE2	1:CN:108:GLU:OE2	1.96	1.17
1:AP:5:THR:CG2	1:CW:74:MET:CB	2.16	1.17
1:AW:6:LEU:CD1	1:BK:92:ARG:NH1	2.06	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:26:ARG:CG	4:DW:973:ASN:ND2	2.05	1.17
1:AP:144:THR:HG21	1:CR:141:GLN:CD	1.64	1.17
5:DX:46:GLU:O	5:DX:50:GLY:N	1.76	1.17
1:AP:108:GLU:HB2	1:CS:7:PHE:CZ	1.78	1.17
1:AW:7:PHE:CB	1:BK:93:VAL:HG13	1.73	1.17
1:BI:7:PHE:CD2	1:DK:92:ARG:CD	2.28	1.17
7:ED:552:LEU:HD22	7:EE:579:LEU:O	1.39	1.17
1:AM:100:THR:HB	1:CR:44:GLN:OE1	1.40	1.17
1:AS:65:GLU:HB3	1:CN:320:SER:OG	0.99	1.17
7:ED:410:HIS:NE2	7:EE:373:GLY:CA	2.07	1.17
1:AP:6:LEU:CD2	1:CS:93:VAL:O	1.90	1.17
1:AW:100:THR:HG22	1:BN:84:THR:CG2	1.72	1.17
1:DC:144:THR:CA	3:DV:85:ASP:CB	2.16	1.17
1:BI:147:ALA:CB	1:DH:79:ILE:HB	1.72	1.16
4:DW:239:VAL:HG13	4:DW:275:ASP:OD1	1.40	1.16
1:AK:308:ARG:NH2	1:BK:96:THR:OG1	1.77	1.16
3:DV:175:ILE:HG13	5:DY:14:ASN:O	1.01	1.16
7:ED:301:LYS:CD	7:EE:283:ILE:CG2	2.01	1.16
1:AW:14:GLY:CA	1:BK:103:TYR:HE1	1.58	1.16
1:BI:92:ARG:HD2	1:DK:6:LEU:CB	1.74	1.16
1:BU:4:PRO:C	1:DH:74:MET:HA	1.66	1.16
7:ED:93:GLN:HG3	7:EE:574:THR:HG23	1.21	1.16
1:AP:108:GLU:HB2	1:CS:7:PHE:CE1	1.79	1.16
3:DV:26:ARG:NH2	3:DV:27:ASP:HB2	1.60	1.16
1:AS:315:LEU:HA	1:CS:320:SER:OG	1.44	1.15
1:BF:74:MET:CE	1:DK:6:LEU:HG	1.75	1.15
1:AH:65:GLU:HG3	1:BK:96:THR:OG1	1.37	1.15
1:BI:320:SER:HB3	1:DM:153:ALA:HB2	1.18	1.15
1:BI:322:GLU:HG3	1:DK:7:PHE:CD2	1.80	1.15
1:AP:4:PRO:N	1:CW:75:LYS:CG	2.01	1.15
3:DV:73:ASP:CB	5:DY:24:SER:OG	1.92	1.15
3:DV:124:ARG:HH12	5:DZ:28:TYR:CB	1.59	1.15
1:AP:104:GLY:HA3	1:CS:15:LYS:CG	1.71	1.15
1:AW:6:LEU:HD21	1:BK:92:ARG:NH1	1.54	1.15
1:BI:74:MET:SD	1:DP:7:PHE:HB2	1.86	1.15
1:BI:147:ALA:CA	1:DH:79:ILE:CG1	2.25	1.15
7:ED:221:GLN:HE21	7:EE:286:MET:CE	1.60	1.15
7:ED:379:VAL:HG23	7:EE:398:MET:HA	1.23	1.15
1:BI:146:SER:O	1:DH:79:ILE:CG2	1.95	1.15
1:BI:147:ALA:CA	1:DH:79:ILE:CG2	1.96	1.15
1:AM:92:ARG:HH11	1:CR:156:ASN:ND2	1.44	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:17:LEU:HD22	1:CW:145:ASN:HB3	1.27	1.14
1:AM:97:ALA:HB1	1:CN:9:SER:HB2	1.20	1.14
1:AP:8:VAL:CA	1:CS:96:THR:HG21	1.75	1.14
1:AP:103:TYR:O	1:CS:16:LYS:CG	1.93	1.14
1:AW:14:GLY:CA	1:BK:103:TYR:CE1	2.29	1.14
3:DV:162:GLU:OE1	5:DX:14:ASN:ND2	1.79	1.14
1:DB:39:LYS:HD3	7:ED:16:VAL:CG1	1.77	1.14
5:DX:85:ALA:HB2	5:DZ:88:MET:HE1	1.16	1.14
1:BI:92:ARG:CD	1:DK:6:LEU:HD23	1.76	1.14
3:DU:153:ILE:CD1	5:DZ:27:ALA:HA	1.76	1.14
1:AS:73:GLU:OE1	1:CS:4:PRO:CB	1.87	1.14
3:DV:175:ILE:CG1	5:DY:14:ASN:O	1.96	1.14
7:ED:649:ASN:ND2	7:EE:648:GLU:HG2	1.45	1.14
1:BI:92:ARG:NH2	1:DK:6:LEU:HD23	1.46	1.13
7:ED:221:GLN:HE21	7:EE:286:MET:HE1	1.11	1.13
1:AM:16:LYS:HG2	1:CN:103:TYR:N	1.59	1.13
1:AP:104:GLY:CA	1:CS:15:LYS:CG	2.08	1.13
1:BF:74:MET:CE	1:DK:6:LEU:CD1	2.25	1.13
1:BI:7:PHE:CE1	1:DK:92:ARG:HD3	1.68	1.13
1:BU:12:GLN:HB2	1:DP:97:ALA:HA	1.13	1.13
1:BU:99:THR:OG1	1:DH:308:ARG:HA	1.37	1.13
5:DY:74:GLU:HB2	5:DZ:69:MET:HE1	1.25	1.13
1:BI:102:ASN:HD21	1:DK:11:ASP:C	1.51	1.13
1:DB:311:LYS:HZ2	7:ED:26:GLN:NE2	1.47	1.13
3:DV:145:LEU:HB3	5:DX:4:TYR:OH	1.45	1.13
7:ED:301:LYS:HG3	7:EE:283:ILE:HB	1.20	1.13
1:AM:97:ALA:HB2	1:CN:9:SER:CA	1.79	1.13
1:BI:95:ASP:O	1:DK:10:TYR:CD2	2.02	1.13
1:BI:7:PHE:CE2	1:DK:92:ARG:CD	2.32	1.12
1:BU:5:THR:HA	1:DH:73:GLU:O	1.49	1.12
7:ED:372:TYR:CD2	7:EE:392:PRO:HD3	1.84	1.12
7:ED:470:ARG:HH22	7:EE:80:CYS:C	1.50	1.12
1:AW:100:THR:OG1	1:BN:45:THR:HA	1.50	1.12
1:BI:100:THR:O	1:DK:12:GLN:NE2	1.81	1.12
1:BI:103:TYR:CA	1:DK:15:LYS:CG	2.17	1.12
1:BU:11:ASP:H	1:DP:96:THR:CB	1.56	1.12
1:DB:16:LYS:HG3	3:DV:234:ARG:CD	1.79	1.12
7:ED:131:ARG:NE	7:EE:269:ARG:HH22	1.45	1.12
1:BI:13:ASN:HB2	1:DM:76:PRO:HG3	1.22	1.12
2:DS:23:TYR:HD1	4:DW:845:ILE:O	1.29	1.12
5:DX:60:GLU:HG3	5:DX:61:ARG:NH1	1.61	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:108:GLU:HB2	1:BK:7:PHE:CE2	1.85	1.12
1:BU:5:THR:CA	1:DH:73:GLU:O	1.96	1.12
1:BU:92:ARG:CB	1:DP:6:LEU:HA	1.79	1.12
3:DU:54:PRO:HD3	5:DX:17:GLN:HB2	1.19	1.12
1:AK:148:ALA:HA	1:BN:143:LEU:HD12	1.28	1.11
1:AP:4:PRO:O	1:CS:92:ARG:NH1	1.83	1.11
1:AP:321:TYR:HE2	1:CZ:68:ARG:HG2	1.04	1.11
1:BI:145:ASN:N	1:DP:17:LEU:CD1	2.13	1.11
1:BI:145:ASN:CB	1:DP:19:PHE:CE2	2.32	1.11
7:ED:379:VAL:CG2	7:EE:398:MET:HG2	1.80	1.11
7:ED:642:GLU:OE2	7:EE:644:GLN:OE1	1.65	1.11
1:BI:72:GLY:CA	1:DP:4:PRO:O	1.96	1.11
1:BU:6:LEU:H	1:DH:74:MET:HE2	1.16	1.11
1:BU:92:ARG:HB3	1:DP:6:LEU:CA	1.79	1.11
7:ED:338:GLY:HA3	7:EE:263:TRP:CH2	1.84	1.11
1:BI:105:ARG:HG2	1:DK:13:ASN:C	1.71	1.11
1:BI:322:GLU:CB	1:DK:7:PHE:O	1.99	1.11
3:DU:153:ILE:HD12	5:DZ:27:ALA:HB2	1.33	1.11
1:BI:145:ASN:N	1:DP:17:LEU:HD13	1.50	1.10
1:AM:103:TYR:CD2	1:CN:16:LYS:CG	2.28	1.10
1:AP:320:SER:CA	1:CZ:65:GLU:CD	2.15	1.10
1:DB:312:ARG:HE	7:ED:31:MET:HE1	1.01	1.10
3:DV:215:GLN:OE1	5:DY:15:VAL:HG11	1.51	1.10
4:DW:748:ALA:HB3	6:EC:23:PHE:H	1.05	1.10
5:DX:74:GLU:OE2	5:DZ:81:LYS:CE	1.98	1.10
7:ED:379:VAL:CG2	7:EE:398:MET:HG3	1.52	1.10
7:ED:379:VAL:HG23	7:EE:398:MET:CA	1.79	1.10
1:AW:6:LEU:HD11	1:BK:92:ARG:HH11	1.05	1.10
3:DU:174:THR:O	5:DX:14:ASN:OD1	1.67	1.10
1:AP:92:ARG:NH1	1:CS:6:LEU:H	1.50	1.10
1:AP:320:SER:HB3	1:CZ:65:GLU:HG2	1.23	1.10
1:BI:103:TYR:HA	1:DK:15:LYS:CG	1.80	1.10
1:BI:103:TYR:N	1:DK:15:LYS:CG	2.14	1.10
5:DX:51:THR:HG23	5:DX:55:LEU:CD1	1.82	1.10
7:ED:93:GLN:CG	7:EE:574:THR:HG23	1.67	1.10
7:ED:550:ALA:O	7:EE:584:TYR:OH	1.70	1.10
1:AW:6:LEU:HD13	1:BK:92:ARG:HE	1.10	1.09
1:AW:105:ARG:HD3	1:BK:15:LYS:HG3	1.18	1.09
1:BU:4:PRO:C	1:DH:74:MET:CB	2.19	1.09
5:DY:88:MET:O	5:DY:91:ILE:HG22	1.49	1.09
1:AM:317:LYS:C	1:CV:68:ARG:NE	1.82	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:74:MET:HE1	1:DK:6:LEU:CD1	1.83	1.09
1:DC:145:ASN:O	3:DV:85:ASP:O	1.69	1.09
7:ED:410:HIS:CD2	7:EE:373:GLY:HA2	1.87	1.09
1:AP:17:LEU:HD21	1:CW:145:ASN:CB	1.69	1.09
1:AP:141:GLN:NE2	1:CR:143:LEU:HB3	1.11	1.09
1:AW:7:PHE:CD1	1:BK:97:ALA:HB1	1.79	1.09
1:BU:12:GLN:HG3	1:DP:97:ALA:HB1	1.28	1.09
7:ED:410:HIS:CG	7:EE:406:LEU:HD11	1.72	1.09
1:BU:319:GLY:HA2	1:DH:313:THR:CG2	1.83	1.09
3:DU:192:VAL:HG23	4:DW:1004:ARG:C	1.72	1.09
3:DV:215:GLN:OE1	5:DY:15:VAL:CG1	2.00	1.09
5:DX:51:THR:HG23	5:DX:55:LEU:HD12	1.14	1.09
1:AM:105:ARG:NH1	1:CN:13:ASN:O	1.85	1.08
1:AP:17:LEU:HD22	1:CW:145:ASN:CB	1.75	1.08
1:AW:7:PHE:CG	1:BK:93:VAL:HG13	1.86	1.08
1:DC:144:THR:C	3:DV:85:ASP:HA	1.72	1.08
1:AS:44:GLN:HE21	1:CS:102:ASN:HA	1.03	1.08
1:AS:73:GLU:CG	1:CS:4:PRO:N	2.13	1.08
1:BI:95:ASP:O	1:DK:10:TYR:CE1	2.06	1.08
1:BI:105:ARG:N	1:DK:14:GLY:HA2	0.84	1.08
1:BU:92:ARG:NH1	1:DP:5:THR:HG23	1.66	1.08
1:AP:5:THR:HG21	1:CW:74:MET:HB2	1.10	1.08
1:BI:72:GLY:O	1:DP:4:PRO:O	1.60	1.08
1:DB:39:LYS:O	7:ED:16:VAL:HG21	1.54	1.08
2:DR:21:ARG:CD	4:DW:859:LYS:HG3	1.83	1.08
2:DS:23:TYR:CD1	4:DW:845:ILE:O	2.06	1.08
1:AK:142:TYR:CB	1:BN:146:SER:OG	2.01	1.08
1:AP:108:GLU:C	1:CS:7:PHE:HE1	1.56	1.08
1:BI:7:PHE:CE2	1:DK:92:ARG:HD3	1.88	1.08
1:BI:74:MET:HE2	1:DP:4:PRO:CB	1.79	1.08
7:ED:20:ARG:HD2	7:EE:277:GLY:O	1.54	1.08
7:ED:410:HIS:CB	7:EE:406:LEU:HD11	1.83	1.08
7:ED:456:LEU:HB3	7:EE:438:MET:HE3	1.27	1.08
1:AW:100:THR:CG2	1:BN:84:THR:CG2	2.27	1.08
1:DB:312:ARG:NE	7:ED:31:MET:HE1	1.67	1.08
1:AM:7:PHE:HB3	1:CN:93:VAL:HG12	1.07	1.07
1:AP:17:LEU:HD21	1:CW:145:ASN:ND2	1.51	1.07
1:BI:146:SER:C	1:DH:79:ILE:HG21	1.73	1.07
1:BU:3:ASN:HB3	1:DP:115:LYS:HZ1	1.16	1.07
1:BU:92:ARG:HG2	1:DP:6:LEU:HA	1.26	1.07
7:ED:97:ASP:OD1	7:EE:575:HIS:NE2	1.87	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:74:MET:HE1	1:DK:6:LEU:CG	1.83	1.07
1:BI:13:ASN:CB	1:DM:76:PRO:HG3	1.83	1.07
3:DV:124:ARG:NH1	5:DZ:28:TYR:HB2	1.69	1.07
7:ED:410:HIS:CA	7:EE:406:LEU:CD1	2.24	1.07
1:AM:101:ALA:N	1:CR:44:GLN:NE2	1.82	1.07
1:AS:73:GLU:HG3	1:CS:4:PRO:N	1.68	1.07
7:ED:625:THR:HG22	7:EE:624:ARG:CZ	1.85	1.07
1:AP:6:LEU:HD22	1:CS:93:VAL:O	1.33	1.07
1:BI:109:LEU:HD11	1:DK:7:PHE:CE1	1.90	1.07
1:BU:4:PRO:CA	1:DH:74:MET:CB	2.09	1.07
1:AP:8:VAL:CA	1:CS:96:THR:OG1	2.02	1.07
1:AP:321:TYR:CE2	1:CZ:68:ARG:HG2	1.89	1.07
1:AW:7:PHE:HB3	1:BK:93:VAL:HG13	1.29	1.07
1:BU:99:THR:HB	1:DH:307:LEU:HD23	1.07	1.07
5:DY:81:LYS:HA	5:DZ:80:PHE:HZ	0.95	1.07
1:BI:147:ALA:HB1	1:DH:79:ILE:HB	1.36	1.06
7:ED:212:GLU:OE2	7:EE:270:GLN:CG	2.03	1.06
7:ED:338:GLY:CA	7:EE:263:TRP:CZ2	2.36	1.06
1:AP:4:PRO:N	1:CW:74:MET:SD	2.28	1.06
1:AP:13:ASN:N	1:CS:105:ARG:NH1	2.03	1.06
1:AS:315:LEU:CA	1:CS:320:SER:OG	2.04	1.06
1:AW:108:GLU:CB	1:BK:7:PHE:CE2	2.29	1.06
1:BU:3:ASN:CB	1:DP:115:LYS:NZ	2.17	1.06
1:DB:39:LYS:HD3	7:ED:16:VAL:HG13	1.19	1.06
7:ED:419:LEU:HD23	7:EE:363:TYR:CE1	1.89	1.06
1:AP:8:VAL:HA	1:CS:96:THR:CB	1.85	1.06
1:BU:3:ASN:ND2	1:DH:75:LYS:HG2	0.96	1.06
1:BU:11:ASP:H	1:DP:96:THR:HB	0.94	1.06
3:DU:26:ARG:CG	4:DW:922:GLN:OE1	2.04	1.06
7:ED:410:HIS:CD2	7:EE:373:GLY:HA3	1.85	1.06
1:AP:96:THR:HG23	1:CZ:65:GLU:CB	1.85	1.06
7:ED:557:GLN:HE22	7:EE:579:LEU:N	1.52	1.06
1:AM:100:THR:CG2	1:CN:11:ASP:OD1	2.03	1.06
1:BI:322:GLU:HG3	1:DK:7:PHE:HD2	1.09	1.06
4:DW:748:ALA:HB1	6:EC:23:PHE:H	1.20	1.06
7:ED:212:GLU:OE2	7:EE:270:GLN:HG3	1.56	1.06
7:ED:625:THR:HG23	7:EE:624:ARG:HH22	1.19	1.06
1:AP:3:ASN:O	1:CW:74:MET:CG	2.04	1.05
1:AP:144:THR:CG2	1:CR:141:GLN:NE2	2.19	1.05
1:AW:101:ALA:H	1:BN:42:ILE:HG13	1.20	1.05
1:DB:39:LYS:CG	7:ED:16:VAL:CG1	2.33	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:26:ARG:CD	4:DW:973:ASN:OD1	2.04	1.05
7:ED:131:ARG:HD3	7:EE:269:ARG:HH22	1.18	1.05
1:AW:14:GLY:O	1:BK:103:TYR:CE1	2.09	1.05
3:DU:153:ILE:CD1	5:DZ:27:ALA:CA	2.33	1.05
3:DV:26:ARG:NH2	3:DV:27:ASP:CB	2.19	1.05
3:DV:159:ASP:OD2	5:DY:25:ILE:CG1	2.04	1.05
7:ED:552:LEU:HD21	7:EE:579:LEU:N	1.26	1.05
1:AP:8:VAL:HG12	1:CS:96:THR:HG23	1.33	1.05
1:AP:108:GLU:C	1:CS:7:PHE:CE1	2.29	1.05
1:BI:92:ARG:CZ	1:DK:6:LEU:HD21	1.84	1.05
7:ED:410:HIS:NE2	7:EE:373:GLY:HA2	1.70	1.05
1:AM:108:GLU:CD	1:CN:12:GLN:HE22	1.57	1.05
1:AS:44:GLN:NE2	1:CS:102:ASN:HA	1.71	1.05
1:BI:144:THR:CG2	1:DH:143:LEU:CD2	2.21	1.05
1:DB:311:LYS:HZ2	7:ED:26:GLN:CD	1.59	1.05
1:DC:144:THR:CA	3:DV:85:ASP:CA	2.33	1.05
3:DV:175:ILE:HD11	5:DY:15:VAL:HA	1.34	1.05
7:ED:456:LEU:CG	7:EE:438:MET:CE	2.30	1.05
1:AP:9:SER:N	1:CS:96:THR:HB	1.71	1.05
1:BU:92:ARG:CG	1:DP:6:LEU:CA	2.35	1.05
1:DB:39:LYS:CB	7:ED:16:VAL:CG1	2.25	1.05
2:DR:24:ILE:HG21	4:DW:857:TRP:HD1	0.89	1.05
7:ED:557:GLN:NE2	7:EE:579:LEU:HB2	1.72	1.05
1:AM:97:ALA:HB2	1:CN:9:SER:HB2	1.13	1.04
1:AW:105:ARG:CD	1:BK:15:LYS:CG	2.35	1.04
4:DW:748:ALA:HB2	6:EC:23:PHE:H	1.21	1.04
1:BI:103:TYR:CA	1:DK:15:LYS:CB	1.90	1.04
1:BU:8:VAL:HG12	1:DP:95:ASP:CB	1.86	1.04
1:DB:312:ARG:HH11	7:ED:31:MET:HE3	1.21	1.04
7:ED:419:LEU:CD2	7:EE:363:TYR:CE1	2.39	1.04
1:AP:17:LEU:CD2	1:CW:145:ASN:HB3	1.75	1.04
1:AS:78:VAL:H	1:CW:149:ASP:C	1.59	1.04
1:AW:16:LYS:N	1:BK:103:TYR:CE2	2.11	1.04
1:BI:317:LYS:HB3	1:DO:68:ARG:HE	0.95	1.04
3:DV:124:ARG:NH1	5:DZ:28:TYR:CB	2.17	1.04
1:AP:103:TYR:O	1:CS:16:LYS:HG2	1.57	1.04
1:AP:105:ARG:HB2	1:CS:12:GLN:HG2	1.05	1.04
1:BI:319:GLY:HA2	1:DO:66:GLY:O	1.54	1.04
5:DX:59:VAL:CG1	5:DX:63:TYR:OH	2.05	1.04
1:AW:16:LYS:CB	1:BK:103:TYR:CE2	2.41	1.04
1:BI:320:SER:O	1:DM:153:ALA:HB3	1.55	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BU:92:ARG:HG2	1:DP:6:LEU:CA	1.88	1.04
3:DV:54:PRO:HD3	5:DY:17:GLN:HB3	1.39	1.04
1:BI:102:ASN:ND2	1:DK:11:ASP:C	2.10	1.03
1:BI:109:LEU:HD11	1:DK:7:PHE:CZ	1.93	1.03
1:BI:147:ALA:CB	1:DH:79:ILE:CB	2.36	1.03
1:BU:14:GLY:HA2	1:DP:102:ASN:ND2	1.67	1.03
1:AK:145:ASN:ND2	1:BN:145:ASN:HB3	1.40	1.03
7:ED:304:GLU:CA	7:EE:232:GLU:OE1	2.05	1.03
1:AM:101:ALA:CA	1:CR:44:GLN:HE22	1.71	1.03
1:AW:13:ASN:OD1	1:BN:76:PRO:HB2	1.57	1.03
1:BU:3:ASN:CB	1:DP:115:LYS:HZ1	1.71	1.03
1:BU:8:VAL:HG12	1:DP:95:ASP:HB3	1.35	1.03
3:DU:153:ILE:CD1	5:DZ:27:ALA:CB	2.36	1.03
7:ED:305:SER:HB3	7:EE:284:ALA:HB2	1.36	1.03
7:ED:516:HIS:CB	7:EE:108:GLN:HE21	1.56	1.03
7:ED:552:LEU:CD2	7:EE:578:LEU:C	2.15	1.03
1:AP:144:THR:CG2	1:CR:141:GLN:CG	1.91	1.03
1:AS:44:GLN:HG2	1:CS:101:ALA:C	1.79	1.03
1:BI:96:THR:HB	1:DM:152:VAL:CB	1.88	1.03
5:DX:51:THR:CG2	5:DX:55:LEU:HD12	1.88	1.03
7:ED:458:MET:C	7:EE:438:MET:HA	1.54	1.03
1:AK:74:MET:HB2	1:BK:6:LEU:C	1.76	1.03
1:AP:92:ARG:NH2	1:CS:6:LEU:N	2.05	1.03
1:AP:144:THR:CG2	1:CR:141:GLN:CD	2.24	1.03
1:BI:146:SER:O	1:DH:79:ILE:HG22	1.52	1.03
3:DV:26:ARG:HH21	3:DV:27:ASP:CB	1.71	1.03
5:DX:60:GLU:HG3	5:DX:61:ARG:HH11	0.89	1.03
1:AP:17:LEU:CD2	1:CW:145:ASN:HB2	1.81	1.02
1:AP:144:THR:HG23	1:CR:141:GLN:NE2	1.73	1.02
1:BI:96:THR:HB	1:DM:152:VAL:HG22	1.40	1.02
1:AK:143:LEU:HD22	1:BN:145:ASN:OD1	1.57	1.02
1:AP:13:ASN:HB3	1:CW:77:THR:O	1.55	1.02
1:AP:92:ARG:CZ	1:CS:6:LEU:H	1.53	1.02
1:AS:145:ASN:HD22	1:CW:145:ASN:ND2	1.57	1.02
1:AW:16:LYS:HG3	1:BK:103:TYR:CG	1.92	1.02
1:BU:318:ASP:CA	1:DH:314:GLU:O	2.06	1.02
7:ED:456:LEU:CB	7:EE:438:MET:CE	2.38	1.02
7:ED:604:VAL:CG2	7:EE:599:MET:HA	1.90	1.02
1:AK:142:TYR:C	1:BN:144:THR:HA	1.80	1.02
1:AM:16:LYS:NZ	1:CN:19:PHE:CD2	2.27	1.02
1:AP:96:THR:HG21	1:CZ:65:GLU:N	1.62	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:94:SER:OG	1:BQ:65:GLU:OE2	1.78	1.02
1:BI:96:THR:CG2	1:DM:152:VAL:CG1	2.37	1.02
1:BU:9:SER:O	1:DP:96:THR:O	1.77	1.02
1:BU:319:GLY:HA2	1:DH:313:THR:HG23	1.39	1.02
1:DB:39:LYS:CD	7:ED:16:VAL:CG1	2.36	1.02
2:DR:24:ILE:CG2	4:DW:857:TRP:CD1	2.41	1.02
1:BI:96:THR:HG21	1:DM:152:VAL:CG1	1.88	1.02
7:ED:301:LYS:HG3	7:EE:283:ILE:CG2	1.87	1.02
7:ED:470:ARG:NH2	7:EE:80:CYS:C	2.11	1.02
1:BF:74:MET:CE	1:DK:6:LEU:CG	2.35	1.02
1:BI:17:LEU:CD1	1:DM:144:THR:N	2.20	1.02
7:ED:97:ASP:OD2	7:EE:575:HIS:CE1	2.12	1.02
1:AP:104:GLY:HA3	1:CS:15:LYS:HG3	1.32	1.01
1:BI:143:LEU:O	1:DP:17:LEU:HD11	1.59	1.01
7:ED:131:ARG:NH1	7:EE:269:ARG:HH12	1.57	1.01
7:ED:628:GLU:OE2	7:EE:627:PHE:CZ	0.67	1.01
1:AP:141:GLN:HE22	1:CR:143:LEU:HB3	1.20	1.01
1:BU:103:TYR:CE1	1:DP:16:LYS:HB3	1.94	1.01
1:BU:13:ASN:HB2	1:DP:105:ARG:CZ	1.83	1.01
1:BU:318:ASP:O	1:DH:315:LEU:CD2	2.08	1.01
5:DX:86:ARG:HE	5:DX:86:ARG:N	1.57	1.01
7:ED:557:GLN:HE22	7:EE:579:LEU:CA	1.73	1.01
1:BI:148:ALA:H	1:DH:79:ILE:CG1	1.67	1.01
1:BU:8:VAL:CG2	1:DP:96:THR:OG1	2.08	1.01
1:BU:92:ARG:O	1:DP:6:LEU:O	1.76	1.01
1:DB:312:ARG:NH1	7:ED:31:MET:HE3	1.75	1.01
7:ED:338:GLY:CA	7:EE:263:TRP:HZ2	1.73	1.01
7:ED:482:ARG:HH11	7:EE:112:ARG:HA	1.20	1.01
1:AM:14:GLY:H	1:CN:105:ARG:NH1	1.58	1.01
1:BI:317:LYS:CB	1:DO:68:ARG:HE	1.72	1.01
1:AP:8:VAL:CG1	1:CS:96:THR:CG2	2.38	1.00
1:AP:17:LEU:HD21	1:CW:145:ASN:HB2	1.35	1.00
1:BI:108:GLU:CB	1:DK:11:ASP:OD1	1.96	1.00
1:BI:109:LEU:HD11	1:DK:7:PHE:CD1	1.96	1.00
3:DU:26:ARG:CB	4:DW:973:ASN:OD1	2.10	1.00
3:DU:138:TYR:CD1	3:DU:145:LEU:CD2	2.43	1.00
3:DV:60:TYR:HE1	5:DX:2:ILE:C	1.62	1.00
3:DV:159:ASP:OD2	5:DY:25:ILE:HG13	1.57	1.00
7:ED:131:ARG:HD3	7:EE:269:ARG:NH2	1.75	1.00
7:ED:408:PRO:O	7:EE:375:TYR:HE1	1.44	1.00
1:BI:317:LYS:HB3	1:DO:68:ARG:NE	1.57	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BU:3:ASN:CG	1:DP:115:LYS:NZ	2.13	1.00
1:DB:312:ARG:HE	7:ED:31:MET:CE	1.75	1.00
3:DU:83:ALA:O	5:DZ:25:ILE:CB	2.09	1.00
3:DV:44:LYS:NZ	5:DX:14:ASN:OD1	1.93	1.00
7:ED:338:GLY:C	7:EE:263:TRP:HZ2	1.65	1.00
1:AS:146:SER:O	1:CW:79:ILE:CG1	2.04	1.00
1:BF:74:MET:HE1	1:DK:6:LEU:HD12	1.42	1.00
2:DS:22:ASP:OD2	4:DW:847:TRP:NE1	1.73	1.00
7:ED:21:ARG:HH22	7:ED:294:ILE:HD11	1.18	1.00
7:ED:482:ARG:NH1	7:EE:112:ARG:HA	1.75	1.00
1:AK:145:ASN:ND2	1:BN:145:ASN:ND2	2.09	1.00
1:AP:104:GLY:O	1:CS:15:LYS:HG2	1.10	1.00
7:EE:21:ARG:HH22	7:EE:294:ILE:CG1	1.75	1.00
3:DV:26:ARG:NH2	3:DV:27:ASP:CG	2.15	1.00
1:AP:96:THR:HG21	1:CZ:65:GLU:H	0.86	0.99
1:AW:7:PHE:HD1	1:BK:97:ALA:HB3	0.83	0.99
1:BI:13:ASN:CB	1:DM:76:PRO:CG	2.38	0.99
1:BU:7:PHE:CZ	1:DP:97:ALA:HB3	1.96	0.99
5:DX:85:ALA:HB1	5:DX:86:ARG:NH2	1.77	0.99
1:BI:96:THR:OG1	1:DM:152:VAL:CG2	1.99	0.99
1:BI:102:ASN:C	1:DK:15:LYS:HG3	1.83	0.99
1:BU:92:ARG:HB2	1:DP:5:THR:O	1.62	0.99
7:ED:235:VAL:HG21	7:ED:243:GLU:OE2	1.62	0.99
1:BI:322:GLU:CG	1:DK:7:PHE:O	2.08	0.99
1:AP:107:ARG:O	1:CS:13:ASN:OD1	1.81	0.99
7:ED:21:ARG:HH22	7:ED:294:ILE:CG1	1.75	0.99
1:AP:4:PRO:HA	1:CW:75:LYS:HG2	1.45	0.99
4:DW:707:TYR:CE1	6:EB:56:ASP:C	2.34	0.99
1:AP:144:THR:OG1	1:CR:141:GLN:HB2	1.62	0.99
4:DW:311:LEU:HD12	4:DW:372:ARG:HH21	0.82	0.99
5:DX:61:ARG:HD3	5:DY:63:TYR:CZ	1.96	0.99
5:DX:61:ARG:CD	5:DY:63:TYR:CE2	2.46	0.99
7:ED:378:LEU:HD21	7:EE:401:GLN:HB2	1.45	0.99
1:AP:94:SER:O	1:CS:7:PHE:CD2	2.16	0.99
1:BU:12:GLN:HG3	1:DP:97:ALA:CB	1.92	0.99
3:DV:54:PRO:O	5:DY:21:THR:CA	2.10	0.99
1:AW:101:ALA:H	1:BN:42:ILE:CG1	1.75	0.98
7:ED:32:ALA:HB1	7:EE:269:ARG:HB3	1.44	0.98
1:AW:16:LYS:CG	1:BK:103:TYR:CE2	2.32	0.98
1:BI:93:VAL:CB	1:DK:8:VAL:N	2.10	0.98
7:EE:235:VAL:HG21	7:EE:243:GLU:OE2	1.62	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:143:LEU:N	1:CW:144:THR:N	2.11	0.98
3:DU:153:ILE:HD11	5:DZ:27:ALA:HA	1.40	0.98
1:AP:105:ARG:HB2	1:CS:12:GLN:CG	1.91	0.98
1:BI:147:ALA:C	1:DH:79:ILE:CG1	2.28	0.98
1:DC:144:THR:HA	3:DV:85:ASP:HB2	1.01	0.98
7:ED:93:GLN:CG	7:EE:574:THR:CG2	2.31	0.98
7:ED:301:LYS:CG	7:EE:283:ILE:CG2	2.28	0.98
1:AW:6:LEU:CG	1:BK:92:ARG:HH11	1.75	0.98
1:BU:103:TYR:O	1:DP:16:LYS:HG3	0.80	0.98
7:ED:21:ARG:HH22	7:ED:294:ILE:CD1	1.66	0.98
7:EE:21:ARG:HH22	7:EE:294:ILE:CD1	1.66	0.98
1:AP:7:PHE:HA	1:CS:92:ARG:NH1	1.79	0.98
1:AS:44:GLN:HG2	1:CS:101:ALA:O	1.63	0.98
1:BI:92:ARG:HD2	1:DK:6:LEU:HB2	1.34	0.98
1:AM:6:LEU:N	1:CR:74:MET:CG	2.26	0.98
1:BI:7:PHE:CE2	1:DK:92:ARG:HD2	1.97	0.98
3:DV:69:TYR:HD1	5:DY:33:GLU:OE2	1.28	0.98
7:ED:660:LYS:HE3	7:EE:658:ASN:HB3	0.98	0.98
1:AP:96:THR:HG23	1:CZ:65:GLU:H	1.29	0.98
1:BU:92:ARG:NE	1:DP:5:THR:O	1.95	0.98
3:DV:60:TYR:HD1	5:DX:3:VAL:O	1.45	0.98
1:AK:143:LEU:N	1:BN:146:SER:H	1.48	0.97
1:AS:44:GLN:HE21	1:CS:102:ASN:CA	1.75	0.97
1:AW:6:LEU:CD1	1:BK:92:ARG:HE	1.77	0.97
1:BI:320:SER:CB	1:DM:153:ALA:HB2	1.92	0.97
3:DU:153:ILE:CD1	5:DZ:27:ALA:HB2	1.92	0.97
7:ED:470:ARG:HH22	7:EE:81:SER:N	1.61	0.97
1:BF:74:MET:HE3	1:DK:6:LEU:CD1	1.92	0.97
1:DC:144:THR:HA	3:DV:85:ASP:CA	1.95	0.97
7:ED:131:ARG:CD	7:EE:269:ARG:NH2	2.27	0.97
1:AW:6:LEU:HD22	1:BK:92:ARG:NH1	1.75	0.97
7:ED:628:GLU:HG3	7:EE:627:PHE:CD2	1.97	0.97
1:BI:96:THR:CB	1:DM:152:VAL:HG11	1.93	0.97
3:DU:26:ARG:HG3	4:DW:922:GLN:CD	1.83	0.97
3:DV:193:GLN:HE22	4:DW:924:HIS:CG	1.83	0.97
5:DY:81:LYS:CA	5:DZ:80:PHE:HZ	1.77	0.97
1:AM:99:THR:HG21	1:CR:308:ARG:HD2	1.46	0.97
1:AS:145:ASN:ND2	1:CW:145:ASN:ND2	2.12	0.97
1:BI:145:ASN:C	1:DP:19:PHE:CZ	2.37	0.97
4:DW:748:ALA:HB3	6:EC:23:PHE:N	1.62	0.97
7:ED:372:TYR:HE2	7:EE:392:PRO:HD3	1.23	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:76:PRO:HB3	1:CS:10:TYR:O	1.64	0.97
1:AW:7:PHE:HB2	1:BK:93:VAL:HG22	1.44	0.97
1:AW:6:LEU:HD21	1:BK:92:ARG:HH12	1.17	0.97
3:DU:83:ALA:O	5:DZ:25:ILE:HB	1.63	0.97
3:DV:72:PRO:N	5:DY:30:GLN:HE22	1.62	0.96
1:AP:144:THR:O	1:CR:142:TYR:CA	2.13	0.96
3:DU:153:ILE:HD11	5:DZ:27:ALA:CB	1.95	0.96
3:DV:60:TYR:CE1	5:DX:2:ILE:C	2.39	0.96
1:BF:65:GLU:OE1	1:DP:95:ASP:O	1.82	0.96
5:DX:68:LEU:CD2	5:DY:70:LYS:NZ	2.27	0.96
1:AK:142:TYR:N	1:BN:144:THR:HA	1.80	0.96
1:AS:146:SER:O	1:CW:79:ILE:HG13	1.64	0.96
1:BI:73:GLU:CD	1:DP:4:PRO:HD3	1.78	0.96
1:DB:311:LYS:NZ	7:ED:26:GLN:NE2	2.12	0.96
4:DW:215:LEU:HD23	4:DW:232:ALA:HA	1.47	0.96
1:AW:6:LEU:HD13	1:BK:92:ARG:CZ	1.95	0.96
1:BI:96:THR:HB	1:DM:152:VAL:CG1	1.95	0.96
1:AP:79:ILE:HD13	1:CR:147:ALA:HB2	1.00	0.96
1:BU:11:ASP:N	1:DP:96:THR:HB	1.80	0.96
1:BU:4:PRO:C	1:DH:74:MET:CA	2.27	0.96
1:AK:143:LEU:N	1:BN:144:THR:CA	2.19	0.96
1:AP:5:THR:HG23	1:CW:74:MET:CB	1.95	0.96
1:BU:103:TYR:OH	1:DP:16:LYS:O	1.83	0.96
1:AW:14:GLY:HA2	1:BK:103:TYR:CE1	1.98	0.96
1:BI:92:ARG:CD	1:DK:6:LEU:CB	2.38	0.96
3:DU:153:ILE:HD11	5:DZ:27:ALA:CA	1.96	0.96
1:AM:97:ALA:H	1:CN:8:VAL:N	1.62	0.95
1:AS:315:LEU:C	1:CS:320:SER:OG	2.03	0.95
1:AW:100:THR:OG1	1:BN:45:THR:CA	2.14	0.95
1:BU:4:PRO:CA	1:DH:74:MET:CA	2.44	0.95
1:BU:13:ASN:N	1:DP:105:ARG:NH1	2.14	0.95
1:BI:73:GLU:OE2	1:DP:3:ASN:HA	1.64	0.95
1:BI:143:LEU:HB2	1:DH:145:ASN:N	1.74	0.95
7:ED:301:LYS:HD2	7:EE:283:ILE:HG22	0.96	0.95
1:AP:8:VAL:CA	1:CS:96:THR:CG2	2.37	0.95
7:ED:409:TYR:HA	7:EE:375:TYR:OH	1.66	0.95
1:BI:96:THR:HG21	1:DM:152:VAL:HG11	0.96	0.95
1:BU:16:LYS:HE3	1:DP:102:ASN:CG	1.44	0.95
3:DU:26:ARG:HA	4:DW:973:ASN:OD1	1.65	0.95
5:DX:74:GLU:CB	5:DZ:77:LYS:HE2	1.96	0.95
1:BI:96:THR:CA	1:DM:152:VAL:HG21	1.96	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:92:ARG:CG	1:DK:6:LEU:CB	2.45	0.95
1:BU:15:LYS:HG2	1:DP:100:THR:HG21	1.48	0.95
7:ED:131:ARG:CZ	7:EE:269:ARG:CZ	2.44	0.95
1:DB:16:LYS:HG2	3:DV:234:ARG:HD2	0.98	0.95
3:DV:145:LEU:CB	5:DX:4:TYR:OH	2.14	0.95
2:DR:20:ASP:O	4:DW:856:VAL:CG1	2.15	0.95
1:AP:7:PHE:O	1:CS:94:SER:OG	1.84	0.94
1:AP:8:VAL:CG1	1:CS:96:THR:HG23	1.97	0.94
1:AW:100:THR:HB	1:BN:44:GLN:O	1.67	0.94
1:DC:144:THR:O	3:DV:85:ASP:HA	1.64	0.94
3:DV:193:GLN:NE2	4:DW:924:HIS:CG	2.35	0.94
1:BU:92:ARG:CD	1:DP:6:LEU:HA	1.94	0.94
7:ED:338:GLY:O	7:EE:263:TRP:HZ2	1.49	0.94
7:EE:21:ARG:HH22	7:EE:294:ILE:HD11	1.18	0.94
1:AM:7:PHE:CB	1:CN:93:VAL:HG12	1.97	0.94
1:BI:99:THR:N	1:DK:10:TYR:HA	1.80	0.94
1:BI:145:ASN:H	1:DP:17:LEU:HD13	1.15	0.94
3:DV:175:ILE:CD1	5:DY:15:VAL:HA	1.96	0.94
4:DW:748:ALA:HB3	6:EC:23:PHE:CA	1.98	0.94
1:AP:108:GLU:CB	1:CS:7:PHE:HE1	1.71	0.94
7:ED:379:VAL:HG21	7:EE:398:MET:CB	1.81	0.94
7:ED:410:HIS:NE2	7:EE:373:GLY:O	2.00	0.94
1:BI:109:LEU:HD11	1:DK:7:PHE:CE2	2.03	0.94
1:AM:14:GLY:N	1:CN:105:ARG:NH1	2.14	0.94
1:AP:147:ALA:O	1:CR:143:LEU:HA	1.64	0.94
1:AS:75:LYS:HA	1:CW:152:VAL:HG23	1.48	0.94
1:AS:143:LEU:O	1:CW:142:TYR:O	1.86	0.94
1:BI:108:GLU:HB2	1:DK:11:ASP:OD1	1.16	0.94
7:ED:131:ARG:HH22	7:EE:269:ARG:HH12	1.15	0.94
1:BU:13:ASN:H	1:DP:105:ARG:HH12	1.12	0.94
3:DV:60:TYR:CE1	5:DX:2:ILE:N	2.36	0.94
7:ED:131:ARG:NE	7:EE:269:ARG:NH2	2.14	0.94
1:AM:319:GLY:O	1:CV:68:ARG:HD3	0.99	0.94
1:AP:320:SER:HA	1:CZ:65:GLU:OE2	1.68	0.94
2:DR:21:ARG:HD2	4:DW:859:LYS:HG3	1.47	0.94
7:ED:131:ARG:NH1	7:EE:269:ARG:NH1	2.12	0.94
7:ED:379:VAL:HG23	7:EE:398:MET:CG	1.93	0.94
1:BI:315:LEU:HD22	1:DP:318:ASP:OD1	1.68	0.93
1:BU:92:ARG:HB3	1:DP:6:LEU:C	1.87	0.93
1:BU:13:ASN:HB3	1:DH:77:THR:OG1	1.67	0.93
1:BI:96:THR:N	1:DK:8:VAL:CG1	2.31	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:74:MET:SD	1:DF:112:GLN:NE2	2.42	0.93
7:ED:466:ARG:HH12	7:EE:77:ASN:ND2	1.48	0.93
1:AP:17:LEU:CD2	1:CW:145:ASN:ND2	2.15	0.93
1:AS:143:LEU:CB	1:CW:142:TYR:O	2.11	0.93
1:AW:108:GLU:OE2	1:BK:12:GLN:CG	2.16	0.93
1:AC:51:THR:O	1:AC:77:THR:OG1	1.86	0.93
1:AS:45:THR:HG22	1:CS:99:THR:HB	1.48	0.93
1:BI:77:THR:N	1:DP:13:ASN:HD21	1.67	0.93
3:DV:73:ASP:HB3	5:DY:24:SER:OG	1.68	0.93
1:AM:7:PHE:HB2	1:CR:74:MET:SD	2.08	0.93
1:BI:148:ALA:H	1:DH:79:ILE:HG12	1.30	0.93
5:DX:82:ASP:O	5:DX:86:ARG:HG2	1.69	0.93
7:ED:131:ARG:CZ	7:EE:269:ARG:HH22	1.82	0.93
1:AP:92:ARG:NH2	1:CS:5:THR:CA	2.31	0.92
1:AS:72:GLY:C	1:CS:3:ASN:O	2.08	0.92
1:BI:96:THR:CB	1:DM:152:VAL:CG1	2.47	0.92
3:DU:26:ARG:NE	4:DW:973:ASN:OD1	2.02	0.92
5:DX:85:ALA:HB3	5:DZ:88:MET:SD	2.07	0.92
7:ED:419:LEU:HD21	7:EE:363:TYR:CD1	2.04	0.92
7:ED:518:LEU:N	7:EE:112:ARG:NH2	2.12	0.92
1:AP:7:PHE:HA	1:CS:92:ARG:HH12	1.32	0.92
1:BA:51:THR:O	1:BA:77:THR:OG1	1.86	0.92
1:BU:3:ASN:HB3	1:DP:115:LYS:NZ	1.80	0.92
1:BU:94:SER:CA	1:DP:8:VAL:HA	1.99	0.92
5:DX:74:GLU:CG	5:DZ:77:LYS:HE2	1.98	0.92
1:AM:6:LEU:HD13	1:CR:71:ASP:HB2	1.49	0.92
1:BF:74:MET:CE	1:DK:6:LEU:HD12	1.95	0.92
7:ED:470:ARG:NH1	7:EE:80:CYS:O	1.96	0.92
1:AP:79:ILE:HD12	1:CR:147:ALA:HB1	1.48	0.92
3:DU:54:PRO:HD3	5:DX:17:GLN:CB	1.99	0.92
7:ED:301:LYS:O	7:EE:283:ILE:CG2	2.16	0.92
7:ED:470:ARG:CZ	7:EE:80:CYS:O	2.16	0.92
1:BU:3:ASN:CG	1:DP:115:LYS:HZ2	1.70	0.92
1:BU:13:ASN:CA	1:DP:105:ARG:HH12	1.81	0.92
1:AW:7:PHE:CE1	1:BK:97:ALA:O	2.23	0.92
1:BI:144:THR:HG22	1:DH:143:LEU:HD23	1.49	0.92
3:DV:60:TYR:CZ	5:DX:2:ILE:N	2.37	0.92
5:DY:88:MET:O	5:DY:91:ILE:CG2	2.16	0.92
1:AP:17:LEU:HD21	1:CW:145:ASN:HD22	1.11	0.92
1:AS:73:GLU:OE1	1:CS:4:PRO:HB3	1.02	0.92
7:ED:456:LEU:HB3	7:EE:438:MET:CE	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:65:GLU:CG	1:BK:96:THR:OG1	2.17	0.92
1:AM:93:VAL:HG12	1:CN:8:VAL:HG22	1.50	0.92
1:BU:4:PRO:HA	1:DH:74:MET:CA	1.99	0.92
3:DU:26:ARG:CG	4:DW:973:ASN:HD21	1.77	0.92
1:AM:6:LEU:CD1	1:CN:92:ARG:NH1	2.22	0.92
1:BU:3:ASN:ND2	1:DH:53:ALA:O	2.02	0.92
1:BU:14:GLY:HA3	1:DP:102:ASN:CG	1.91	0.92
2:DR:23:TYR:CD1	4:DW:853:LYS:O	2.23	0.91
3:DU:26:ARG:N	4:DW:973:ASN:OD1	2.02	0.91
1:AP:8:VAL:CG1	1:CS:96:THR:HG21	1.99	0.91
1:AP:13:ASN:H	1:CS:105:ARG:HH12	1.18	0.91
1:AW:7:PHE:HD1	1:BK:97:ALA:CB	1.62	0.91
7:ED:131:ARG:CZ	7:EE:269:ARG:NH2	2.33	0.91
7:ED:410:HIS:HA	7:EE:406:LEU:HD11	1.12	0.91
1:AM:92:ARG:HH11	1:CR:156:ASN:HD21	1.02	0.91
1:AW:4:PRO:HD3	1:BN:76:PRO:HA	1.52	0.91
1:AW:16:LYS:HD2	1:BK:101:ALA:O	1.70	0.91
1:BF:43:ASN:OD1	1:DK:103:TYR:CD1	2.24	0.91
7:ED:660:LYS:HE3	7:EE:658:ASN:HB2	1.53	0.91
1:AW:101:ALA:N	1:BN:42:ILE:HG13	1.84	0.91
1:AP:108:GLU:HB3	1:CS:7:PHE:CE1	2.03	0.91
3:DU:174:THR:O	5:DX:14:ASN:CG	2.08	0.91
7:ED:628:GLU:OE2	7:EE:627:PHE:HZ	1.32	0.91
7:ED:649:ASN:HD22	7:EE:648:GLU:HG2	1.29	0.91
1:AP:4:PRO:CA	1:CW:75:LYS:CG	2.37	0.91
1:AS:144:THR:HB	1:CW:141:GLN:O	1.70	0.91
1:BU:92:ARG:CB	1:DP:6:LEU:CA	2.41	0.91
3:DV:139:PRO:HB2	5:DX:39:LYS:HD2	1.52	0.91
1:BU:12:GLN:CG	1:DP:97:ALA:CB	2.48	0.91
1:AP:108:GLU:HG2	1:CS:11:ASP:C	1.91	0.91
5:DX:60:GLU:CG	5:DX:61:ARG:HH11	1.82	0.91
1:AM:16:LYS:NZ	1:CN:19:PHE:CB	2.33	0.90
1:BI:145:ASN:CA	1:DP:19:PHE:HZ	1.83	0.90
1:BU:5:THR:N	1:DH:74:MET:HA	1.80	0.90
7:ED:410:HIS:HD2	7:EE:373:GLY:HA3	1.35	0.90
1:BI:103:TYR:HA	1:DK:15:LYS:HB3	1.51	0.90
1:CL:206:ASN:ND2	1:CL:214:ASP:OD2	2.04	0.90
3:DU:235:LEU:HD11	7:ED:354:ASP:HB3	1.51	0.90
7:ED:604:VAL:HG21	7:EE:599:MET:HA	1.44	0.90
1:AP:96:THR:HG22	1:CZ:65:GLU:H	1.34	0.90
3:DV:175:ILE:HD11	5:DY:15:VAL:CA	2.00	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ED:379:VAL:CG2	7:EE:398:MET:HB2	1.99	0.90
1:AP:320:SER:CA	1:CZ:65:GLU:OE2	2.18	0.90
7:ED:95:ASP:O	7:EE:572:LYS:NZ	2.04	0.90
7:ED:456:LEU:C	7:EE:438:MET:HE3	1.91	0.90
7:ED:374:ARG:NH2	7:EE:389:ASP:O	2.05	0.90
1:AP:92:ARG:CZ	1:CW:156:ASN:OD1	2.19	0.90
1:AP:141:GLN:HE21	1:CR:143:LEU:HB3	1.33	0.90
1:AW:14:GLY:C	1:BK:103:TYR:CZ	2.45	0.90
7:ED:628:GLU:CB	7:EE:627:PHE:CE2	2.54	0.90
1:BI:11:ASP:HB3	1:DK:94:SER:HB3	1.52	0.90
1:BU:7:PHE:CZ	1:DP:97:ALA:CB	2.54	0.90
3:DU:153:ILE:HD12	5:DZ:27:ALA:CB	1.98	0.90
5:DX:59:VAL:HG12	5:DX:63:TYR:CZ	2.06	0.90
5:DX:61:ARG:HD3	5:DY:63:TYR:CD2	2.05	0.90
1:AH:65:GLU:HG3	1:BK:96:THR:HG1	1.30	0.90
1:BU:19:PHE:CE2	1:DP:16:LYS:NZ	2.38	0.90
1:AS:78:VAL:N	1:CW:149:ASP:C	2.18	0.90
1:DC:144:THR:C	3:DV:85:ASP:CA	2.34	0.90
1:AP:9:SER:H	1:CS:96:THR:HB	1.32	0.89
1:AP:79:ILE:HD12	1:CR:147:ALA:CB	1.99	0.89
4:DW:355:GLU:OE2	4:DW:371:VAL:HG22	1.71	0.89
1:AP:4:PRO:HA	1:CW:75:LYS:CG	2.00	0.89
1:AP:321:TYR:HE2	1:CZ:68:ARG:CG	1.85	0.89
1:CD:96:THR:O	1:CD:100:THR:OG1	1.91	0.89
3:DU:178:GLU:OE1	3:DU:178:GLU:N	2.06	0.89
1:AK:143:LEU:N	1:BN:144:THR:HA	1.83	0.89
1:BI:311:LYS:HG3	1:DP:317:LYS:HZ1	1.35	0.89
7:ED:379:VAL:CG2	7:EE:398:MET:HA	2.03	0.89
1:BU:6:LEU:N	1:DH:74:MET:HE2	1.88	0.89
1:BU:92:ARG:HE	1:DP:5:THR:C	1.76	0.89
1:BI:92:ARG:HD2	1:DK:6:LEU:CD2	2.03	0.89
1:BI:103:TYR:CE1	1:DM:145:ASN:OD1	2.25	0.89
1:BI:109:LEU:HD11	1:DK:7:PHE:CG	2.07	0.89
1:BI:320:SER:HB3	1:DM:153:ALA:CB	2.02	0.89
1:BU:105:ARG:CD	1:DP:15:LYS:HA	1.74	0.89
7:ED:221:GLN:NE2	7:EE:286:MET:CE	2.34	0.89
5:DX:85:ALA:HB1	5:DZ:88:MET:CE	2.01	0.89
1:AW:6:LEU:HD11	1:BK:92:ARG:NH1	1.79	0.89
1:BI:322:GLU:CG	1:DK:7:PHE:HD2	1.85	0.89
7:ED:430:ARG:CG	7:EE:66:GLU:CG	2.37	0.89
1:AS:45:THR:CG2	1:CS:99:THR:HB	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:92:ARG:HD2	1:DK:6:LEU:N	1.87	0.89
1:BI:92:ARG:HG3	1:DK:6:LEU:HB2	1.54	0.89
1:BI:321:TYR:O	1:DK:6:LEU:O	1.89	0.89
1:AP:105:ARG:CB	1:CS:12:GLN:CG	2.49	0.89
1:AP:105:ARG:HG2	1:CS:15:LYS:HB3	1.55	0.89
1:AW:102:ASN:C	1:BN:43:ASN:HB2	1.90	0.89
1:DK:258:ARG:NH1	1:DK:267:ILE:O	2.06	0.89
3:DV:178:GLU:OE1	3:DV:178:GLU:N	2.06	0.89
1:AM:6:LEU:HD13	1:CR:71:ASP:CB	2.03	0.88
1:AP:96:THR:CG2	1:CZ:65:GLU:CB	2.51	0.88
1:AW:7:PHE:HB3	1:BK:93:VAL:CG1	2.01	0.88
1:BU:318:ASP:O	1:DH:315:LEU:HD23	1.71	0.88
1:CS:93:VAL:O	1:CS:321:TYR:OH	1.90	0.88
3:DU:192:VAL:HG23	4:DW:1004:ARG:CA	2.02	0.88
1:AK:146:SER:HB2	1:BN:141:GLN:H	1.36	0.88
1:AP:12:GLN:C	1:CS:105:ARG:HH12	1.77	0.88
1:BU:5:THR:OG1	1:DH:74:MET:CE	2.20	0.88
2:DR:21:ARG:NH1	4:DW:858:ARG:O	1.83	0.88
7:ED:305:SER:CB	7:EE:284:ALA:CB	2.50	0.88
1:AP:92:ARG:NH2	1:CS:5:THR:C	2.26	0.88
1:BI:13:ASN:HB2	1:DM:76:PRO:CB	2.03	0.88
3:DU:26:ARG:N	4:DW:973:ASN:CG	2.27	0.88
7:ED:97:ASP:OD1	7:EE:575:HIS:CE1	2.26	0.88
3:DV:26:ARG:HH21	3:DV:27:ASP:HB2	1.22	0.88
7:ED:301:LYS:CG	7:EE:283:ILE:CB	2.37	0.88
7:ED:305:SER:OG	7:EE:284:ALA:CB	2.21	0.88
1:BI:92:ARG:CD	1:DK:6:LEU:CD2	2.49	0.88
1:BI:315:LEU:CD2	1:DP:318:ASP:OD1	2.17	0.88
3:DU:83:ALA:O	5:DZ:25:ILE:HG13	1.73	0.88
1:AS:65:GLU:HB3	1:CN:320:SER:HG	1.10	0.88
1:BI:72:GLY:CA	1:DP:3:ASN:ND2	2.37	0.88
1:BI:109:LEU:HD11	1:DK:7:PHE:CD2	2.09	0.88
1:BI:317:LYS:NZ	1:DO:65:GLU:CG	2.35	0.88
2:DR:20:ASP:C	4:DW:856:VAL:HG12	1.93	0.88
7:ED:372:TYR:CD2	7:EE:392:PRO:CD	2.57	0.88
1:AM:16:LYS:NZ	1:CN:19:PHE:CG	2.42	0.88
1:AM:16:LYS:HZ2	1:CN:19:PHE:CB	1.87	0.88
1:AP:320:SER:CB	1:CZ:65:GLU:CD	2.17	0.88
1:BI:95:ASP:O	1:DK:10:TYR:CE2	2.26	0.88
3:DU:154:LEU:HD21	3:DU:156:TYR:HB3	1.56	0.88
1:DA:306:VAL:HG22	1:DA:330:VAL:HG12	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DV:73:ASP:HB2	5:DY:24:SER:OG	1.69	0.88
1:BI:95:ASP:O	1:DK:10:TYR:CZ	2.27	0.87
1:BU:12:GLN:CG	1:DP:97:ALA:HA	1.99	0.87
1:AP:4:PRO:O	1:CW:74:MET:HG2	1.68	0.87
1:AP:92:ARG:NH2	1:CS:5:THR:CG2	2.38	0.87
1:AW:16:LYS:CD	1:BK:101:ALA:O	2.22	0.87
2:DR:20:ASP:O	4:DW:856:VAL:HB	1.75	0.87
3:DU:230:ASN:ND2	7:EE:369:ASN:OD1	2.06	0.87
5:DX:60:GLU:OE2	5:DX:64:GLN:HG3	1.74	0.87
5:DX:68:LEU:HD21	5:DY:70:LYS:HZ2	1.36	0.87
1:AS:143:LEU:H	1:CW:144:THR:N	1.69	0.87
5:DY:81:LYS:CB	5:DY:82:ASP:N	2.38	0.87
7:ED:516:HIS:CA	7:EE:108:GLN:HE21	1.86	0.87
1:AS:143:LEU:HB2	1:CW:142:TYR:O	1.72	0.87
5:DX:59:VAL:HG12	5:DX:63:TYR:HH	1.39	0.87
1:AP:96:THR:HG22	1:CZ:65:GLU:N	1.89	0.87
1:AW:7:PHE:HE1	1:BK:97:ALA:CB	1.64	0.87
1:BI:320:SER:CB	1:DM:153:ALA:CB	2.53	0.87
1:AM:101:ALA:CA	1:CR:44:GLN:NE2	2.33	0.87
1:AP:96:THR:HG23	1:CZ:65:GLU:HB3	1.54	0.87
1:AP:108:GLU:CG	1:CS:12:GLN:HA	1.61	0.87
1:AW:102:ASN:O	1:BN:43:ASN:HB3	1.72	0.87
3:DV:29:ASP:O	3:DV:33:ASN:ND2	2.08	0.87
7:ED:20:ARG:HH22	7:EE:279:ASP:HB2	0.72	0.87
7:ED:221:GLN:NE2	7:EE:286:MET:HE1	1.90	0.87
1:AP:3:ASN:C	1:CW:74:MET:SD	2.53	0.86
1:AW:6:LEU:CG	1:BK:92:ARG:NH1	2.37	0.86
1:BF:74:MET:HE3	1:DK:6:LEU:HD11	1.55	0.86
7:ED:410:HIS:HA	7:EE:406:LEU:HD12	1.57	0.86
1:AM:7:PHE:CE2	1:CN:108:GLU:CD	2.48	0.86
1:AP:8:VAL:CA	1:CS:96:THR:CB	2.49	0.86
1:AS:145:ASN:HD22	1:CW:145:ASN:HD21	0.86	0.86
1:BI:145:ASN:HB3	1:DP:19:PHE:CE2	2.07	0.86
1:BU:12:GLN:CG	1:DP:97:ALA:HB1	2.05	0.86
3:DU:138:TYR:HD1	3:DU:145:LEU:CD2	1.88	0.86
1:AM:100:THR:CB	1:CR:44:GLN:OE1	2.24	0.86
1:AP:7:PHE:HZ	1:CW:75:LYS:HG3	1.33	0.86
1:CZ:51:THR:O	1:CZ:77:THR:OG1	1.94	0.86
1:AK:145:ASN:CG	1:BN:145:ASN:HB3	1.95	0.86
1:AW:105:ARG:HD2	1:BK:15:LYS:CG	2.01	0.86
1:BX:88:ARG:NH1	1:CC:64:VAL:O	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:16:LYS:HG2	3:DV:234:ARG:HD3	1.00	0.86
5:DX:60:GLU:CG	5:DX:61:ARG:NH1	2.37	0.86
7:ED:516:HIS:CA	7:EE:108:GLN:NE2	2.38	0.86
1:BU:19:PHE:HE2	1:DP:16:LYS:HZ3	1.20	0.86
7:ED:97:ASP:CG	7:EE:575:HIS:CE1	2.49	0.86
1:AP:92:ARG:NH1	1:CW:156:ASN:OD1	2.09	0.86
1:DB:312:ARG:CZ	7:ED:31:MET:CE	2.52	0.86
7:ED:374:ARG:NH1	7:EE:389:ASP:O	2.00	0.86
7:ED:470:ARG:C	7:EE:117:TYR:OH	2.13	0.86
1:BI:141:GLN:HA	1:DH:143:LEU:O	1.74	0.86
1:BU:3:ASN:OD1	1:DP:115:LYS:NZ	2.06	0.86
1:AM:16:LYS:CG	1:CN:103:TYR:N	2.19	0.86
1:BI:92:ARG:HA	1:DK:7:PHE:HB2	1.55	0.86
1:BI:144:THR:O	1:DP:19:PHE:CZ	2.29	0.86
1:BI:146:SER:C	1:DH:143:LEU:HD11	1.96	0.86
1:BU:7:PHE:CE2	1:DP:97:ALA:HB3	2.09	0.86
3:DV:124:ARG:NH1	5:DZ:28:TYR:CD2	2.44	0.86
1:AP:12:GLN:HE22	1:CS:102:ASN:ND2	1.73	0.86
1:BI:96:THR:CB	1:DM:152:VAL:CB	2.49	0.86
1:BI:103:TYR:C	1:DK:15:LYS:HB2	1.95	0.86
1:BU:8:VAL:HG23	1:DP:96:THR:CB	2.05	0.86
1:AK:145:ASN:OD1	1:BN:142:TYR:CA	1.92	0.85
1:BI:143:LEU:O	1:DP:17:LEU:CD1	2.24	0.85
1:BU:8:VAL:HG22	1:DP:94:SER:HB3	1.56	0.85
1:BI:9:SER:OG	1:DK:95:ASP:CA	2.21	0.85
1:BU:318:ASP:O	1:DH:315:LEU:HD21	1.72	0.85
3:DV:60:TYR:CD1	5:DX:3:VAL:O	2.28	0.85
1:AW:7:PHE:CE1	1:BK:97:ALA:C	2.49	0.85
1:CC:51:THR:O	1:CC:77:THR:OG1	1.94	0.85
5:DZ:88:MET:HA	5:DZ:91:ILE:HD12	1.57	0.85
7:ED:372:TYR:CE2	7:EE:392:PRO:CD	2.56	0.85
7:ED:552:LEU:CD2	7:EE:579:LEU:C	2.31	0.85
7:ED:646:LYS:CA	7:EE:644:GLN:HE22	1.89	0.85
1:BI:145:ASN:N	1:DP:19:PHE:CZ	2.43	0.85
1:BU:12:GLN:CG	1:DP:97:ALA:CA	2.54	0.85
1:AP:8:VAL:CG1	1:CS:94:SER:OG	2.24	0.85
7:ED:94:GLN:HG2	7:EE:497:GLU:OE1	1.74	0.85
7:ED:430:ARG:HG2	7:EE:66:GLU:HG2	0.87	0.85
1:AM:6:LEU:HD12	1:CN:92:ARG:HH11	0.70	0.85
1:AW:7:PHE:HE1	1:BK:97:ALA:HB1	1.06	0.85
7:ED:516:HIS:HB3	7:EE:108:GLN:HE21	1.04	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:144:THR:CG2	1:CR:141:GLN:HE21	1.87	0.85
1:BI:109:LEU:CD1	1:DK:7:PHE:CG	2.59	0.85
1:BI:74:MET:HE2	1:DP:4:PRO:CA	2.05	0.85
1:BI:77:THR:N	1:DP:13:ASN:ND2	2.21	0.85
7:ED:338:GLY:O	7:EE:263:TRP:CZ2	2.30	0.85
7:ED:466:ARG:HH11	7:EE:77:ASN:ND2	1.52	0.85
1:AK:142:TYR:O	1:BN:143:LEU:O	1.93	0.85
1:BI:145:ASN:O	1:DP:19:PHE:CE1	2.30	0.85
1:CG:250:GLU:OE1	1:CG:258:ARG:NH2	2.09	0.85
5:DX:68:LEU:HD21	5:DY:70:LYS:HZ1	1.04	0.85
1:AM:97:ALA:HB2	1:CN:9:SER:N	1.91	0.84
1:BI:317:LYS:CB	1:DO:68:ARG:NE	2.24	0.84
1:BX:88:ARG:NH2	1:CC:67:SER:O	2.09	0.84
3:DU:195:ASP:O	3:DU:198:VAL:N	2.09	0.84
7:ED:408:PRO:O	7:EE:375:TYR:CE1	2.30	0.84
1:AW:14:GLY:O	1:BK:103:TYR:HE1	1.49	0.84
1:BI:92:ARG:NH2	1:DK:6:LEU:HD22	1.87	0.84
1:BU:16:LYS:HB2	1:DP:101:ALA:CB	2.05	0.84
1:AK:143:LEU:HD12	1:BN:147:ALA:O	1.77	0.84
7:ED:458:MET:C	7:EE:438:MET:CA	2.41	0.84
1:BU:12:GLN:CB	1:DP:97:ALA:CA	2.41	0.84
1:BU:92:ARG:CB	1:DP:5:THR:O	2.25	0.84
3:DU:83:ALA:O	5:DZ:25:ILE:CG1	2.26	0.84
1:AP:8:VAL:HG12	1:CS:96:THR:CG2	2.05	0.84
1:AS:73:GLU:N	1:CS:3:ASN:O	2.10	0.84
1:BU:93:VAL:HA	1:DP:7:PHE:O	1.77	0.84
5:DX:85:ALA:HB1	5:DZ:91:ILE:HD13	1.52	0.84
7:ED:456:LEU:HG	7:EE:438:MET:HE1	0.87	0.84
7:ED:646:LYS:HB2	7:EE:644:GLN:NE2	1.93	0.84
3:DU:26:ARG:CB	4:DW:973:ASN:HD21	1.90	0.84
7:ED:97:ASP:CG	7:EE:575:HIS:NE2	2.30	0.84
7:ED:466:ARG:HH11	7:EE:77:ASN:HD22	0.87	0.84
1:DB:312:ARG:NE	7:ED:31:MET:CE	2.36	0.84
1:BF:43:ASN:OD1	1:DK:103:TYR:HD1	1.60	0.84
7:ED:235:VAL:CG2	7:ED:243:GLU:OE2	2.26	0.84
1:AP:144:THR:HG21	1:CR:141:GLN:HG2	1.55	0.84
1:AS:75:LYS:O	1:CW:153:ALA:HB2	1.77	0.84
5:DY:71:GLN:HA	5:DY:74:GLU:HB3	1.59	0.84
7:ED:475:ASN:OD1	7:EE:118:ASN:OD1	1.96	0.84
7:ED:552:LEU:HD21	7:EE:579:LEU:C	1.84	0.84
1:BI:17:LEU:HD11	1:DM:144:THR:N	1.64	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:191:PHE:O	4:DW:1005:ARG:NE	1.94	0.83
1:AM:16:LYS:HZ2	1:CN:19:PHE:HB2	1.42	0.83
3:DU:26:ARG:CD	4:DW:922:GLN:OE1	2.26	0.83
3:DV:59:VAL:HA	5:DX:3:VAL:HG23	1.60	0.83
1:AS:143:LEU:CA	1:CW:142:TYR:O	2.26	0.83
1:BU:6:LEU:HD12	1:DP:93:VAL:O	1.78	0.83
3:DV:124:ARG:HH12	5:DZ:28:TYR:CA	1.90	0.83
7:ED:456:LEU:CA	7:EE:438:MET:HE3	2.06	0.83
7:EE:235:VAL:CG2	7:EE:243:GLU:OE2	2.25	0.83
1:AW:4:PRO:HD3	1:BN:76:PRO:CA	2.08	0.83
1:CJ:250:GLU:OE1	1:CJ:258:ARG:NH2	2.12	0.83
3:DU:26:ARG:HG2	4:DW:973:ASN:OD1	1.51	0.83
1:AW:16:LYS:HG2	1:BK:103:TYR:CD2	2.13	0.83
1:AW:105:ARG:NE	1:BK:13:ASN:C	2.28	0.83
3:DV:58:GLU:O	5:DX:3:VAL:HG22	1.79	0.83
1:AP:79:ILE:HD11	1:CR:147:ALA:HB1	1.54	0.83
1:AS:73:GLU:CG	1:CS:4:PRO:CA	2.55	0.83
1:BI:12:GLN:C	1:DK:96:THR:HG21	1.98	0.83
1:BU:92:ARG:NE	1:DP:6:LEU:CA	2.41	0.83
1:BU:94:SER:CB	1:DP:8:VAL:C	2.47	0.83
2:DR:21:ARG:N	4:DW:856:VAL:CG1	2.24	0.83
1:AW:6:LEU:CD1	1:BK:92:ARG:CZ	2.55	0.83
1:CZ:308:ARG:NH1	1:CZ:327:GLU:OE1	2.12	0.83
1:DD:102:ASN:ND2	1:DO:14:GLY:O	2.12	0.83
1:AW:99:THR:OG1	1:BN:308:ARG:HD2	1.79	0.82
1:BU:92:ARG:NE	1:DP:6:LEU:HA	1.87	0.82
7:ED:374:ARG:CZ	7:EE:389:ASP:O	2.25	0.82
7:ED:379:VAL:CG2	7:EE:398:MET:CA	2.48	0.82
1:AP:9:SER:N	1:CS:96:THR:CB	2.42	0.82
3:DV:60:TYR:CE1	5:DX:2:ILE:CA	2.62	0.82
7:ED:97:ASP:OD1	7:EE:572:LYS:HD3	1.79	0.82
1:BI:74:MET:HE2	1:DP:4:PRO:C	1.99	0.82
3:DV:124:ARG:NH1	5:DZ:28:TYR:CA	2.42	0.82
1:AP:8:VAL:CA	1:CS:96:THR:HG1	1.83	0.82
1:AP:144:THR:HG22	1:CR:138:LEU:HD22	1.61	0.82
1:CN:257:LYS:NZ	1:CR:254:GLY:O	2.11	0.82
3:DV:44:LYS:NZ	5:DX:14:ASN:CG	2.32	0.82
7:ED:467:MET:HE3	7:EE:72:LEU:HG	1.60	0.82
1:CO:252:THR:OG1	1:CO:255:SER:O	1.98	0.82
3:DV:124:ARG:CZ	5:DZ:28:TYR:HD2	1.91	0.82
1:AH:68:ARG:HB3	1:BK:321:TYR:OH	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:8:VAL:HA	1:CS:96:THR:CG2	2.05	0.82
1:AS:44:GLN:CG	1:CS:101:ALA:O	2.28	0.82
1:BI:311:LYS:HG3	1:DP:317:LYS:NZ	1.94	0.82
1:DB:39:LYS:C	7:ED:16:VAL:HG21	2.00	0.82
4:DW:748:ALA:HB2	6:EC:23:PHE:N	1.83	0.82
5:DX:74:GLU:HB2	5:DZ:77:LYS:HE2	1.59	0.82
1:AM:7:PHE:CE1	1:CN:108:GLU:OE2	2.32	0.82
1:AP:162:ARG:NH1	1:AP:329:GLU:OE2	2.12	0.82
1:BI:109:LEU:CD1	1:DK:7:PHE:CD1	2.62	0.82
2:DR:20:ASP:CA	4:DW:856:VAL:HG11	2.09	0.82
1:AP:92:ARG:NH1	1:CS:6:LEU:N	2.13	0.82
1:BI:74:MET:HE3	1:DP:4:PRO:HB3	0.83	0.82
1:BI:92:ARG:NE	1:DK:6:LEU:CD2	2.11	0.82
1:BU:94:SER:N	1:DP:7:PHE:O	2.13	0.82
2:DS:20:ASP:CB	4:DW:848:ASP:OD2	2.26	0.82
5:DX:60:GLU:OE2	5:DX:61:ARG:NH1	2.13	0.82
7:ED:458:MET:O	7:EE:438:MET:HA	1.78	0.82
1:CW:254:GLY:O	1:CW:257:LYS:NZ	2.12	0.82
3:DV:14:GLY:O	3:DV:18:LYS:NZ	2.12	0.82
7:ED:131:ARG:NH2	7:EE:269:ARG:CZ	2.42	0.82
1:BN:5:THR:O	1:BQ:156:ASN:ND2	2.12	0.82
1:DF:238:ASN:ND2	1:DF:293:ALA:O	2.13	0.82
1:BI:145:ASN:CA	1:DP:19:PHE:HE2	1.88	0.81
3:DV:12:THR:HG21	3:DV:168:ASP:O	1.80	0.81
5:DX:86:ARG:HE	5:DX:86:ARG:CA	1.93	0.81
1:BU:8:VAL:CG1	1:DP:95:ASP:HB3	2.09	0.81
1:DF:183:LYS:NZ	1:DF:292:ASP:OD2	2.13	0.81
3:DV:175:ILE:HG13	5:DY:14:ASN:C	2.01	0.81
7:ED:557:GLN:HE22	7:EE:579:LEU:CB	1.91	0.81
1:AP:16:LYS:HZ1	1:CS:19:PHE:HD2	1.27	0.81
3:DV:162:GLU:OE1	5:DX:14:ASN:CB	2.28	0.81
5:DY:84:ASP:HA	5:DY:87:LEU:HB3	1.61	0.81
1:AP:3:ASN:N	1:CW:56:SER:HG	1.79	0.81
1:AP:104:GLY:O	1:CS:15:LYS:HG3	1.58	0.81
1:BP:308:ARG:NH2	1:BT:99:THR:O	2.14	0.81
1:DA:215:GLU:OE2	1:DA:256:ARG:NH2	2.14	0.81
1:AP:16:LYS:NZ	1:CS:19:PHE:CD2	2.48	0.81
7:ED:458:MET:O	7:EE:438:MET:N	2.12	0.81
1:AP:16:LYS:NZ	1:CS:19:PHE:HD2	1.77	0.81
1:AP:96:THR:CG2	1:CZ:65:GLU:HB2	2.11	0.81
1:BI:74:MET:CE	1:DP:4:PRO:HB2	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:26:ARG:HD2	4:DW:922:GLN:OE1	1.80	0.81
1:AR:308:ARG:NH2	1:AV:99:THR:O	2.14	0.81
1:BI:143:LEU:C	1:DP:17:LEU:CD1	2.48	0.81
1:BN:162:ARG:NH1	1:BN:329:GLU:OE2	2.12	0.81
1:DE:196:VAL:O	1:DE:224:GLN:NE2	2.14	0.81
7:ED:458:MET:O	7:EE:438:MET:CA	2.28	0.81
1:AP:144:THR:O	1:CR:141:GLN:O	1.88	0.81
1:AW:213:PHE:O	1:AW:215:GLU:HG3	1.80	0.81
1:BI:319:GLY:CA	1:DO:66:GLY:O	2.29	0.81
1:DB:16:LYS:CB	3:DV:234:ARG:HD3	2.10	0.81
1:AW:16:LYS:HD3	1:BK:101:ALA:C	2.02	0.81
1:BI:322:GLU:C	1:DK:7:PHE:HB3	1.99	0.81
1:BU:94:SER:HB2	1:DP:8:VAL:C	2.00	0.81
4:DW:239:VAL:CG1	4:DW:275:ASP:OD1	2.27	0.81
5:DX:86:ARG:N	5:DX:86:ARG:NE	2.28	0.81
1:AP:5:THR:O	1:AS:156:ASN:ND2	2.12	0.80
1:AP:107:ARG:O	1:CS:13:ASN:CG	2.19	0.80
1:AW:100:THR:OG1	1:BN:45:THR:N	2.14	0.80
1:CS:51:THR:O	1:CS:77:THR:OG1	1.97	0.80
1:DC:144:THR:CA	3:DV:85:ASP:HA	2.04	0.80
1:AM:103:TYR:HD2	1:CN:16:LYS:CD	1.95	0.80
1:AP:320:SER:N	1:CZ:65:GLU:O	2.02	0.80
1:AW:6:LEU:CD2	1:BK:92:ARG:HH12	1.74	0.80
1:BI:74:MET:HE2	1:DP:4:PRO:HB2	1.62	0.80
1:BI:144:THR:HA	1:DH:143:LEU:CB	2.11	0.80
1:DC:89:LYS:NZ	1:DC:119:GLU:OE1	2.14	0.80
1:DQ:200:VAL:O	1:DQ:202:GLN:NE2	2.13	0.80
1:AQ:249:GLN:OE1	1:AQ:258:ARG:NH2	2.14	0.80
3:DV:72:PRO:CD	5:DY:30:GLN:HE22	1.94	0.80
3:DV:193:GLN:HE22	4:DW:924:HIS:CD2	1.99	0.80
1:AP:8:VAL:HG12	1:CS:94:SER:OG	1.81	0.80
1:BI:103:TYR:HE1	1:DM:145:ASN:OD1	1.62	0.80
1:CG:122:ARG:NH2	1:CO:56:SER:OG	2.15	0.80
1:CO:203:ASN:ND2	1:CO:212:GLY:O	2.14	0.80
1:AP:4:PRO:O	1:CW:74:MET:CG	2.20	0.80
1:AP:8:VAL:HA	1:CS:96:THR:HG1	0.88	0.80
1:BU:9:SER:C	1:DP:96:THR:O	2.13	0.80
7:ED:419:LEU:HD21	7:EE:363:TYR:CE1	2.15	0.80
1:AE:82:ASN:ND2	1:AE:164:THR:O	2.14	0.80
1:AW:4:PRO:CD	1:BN:75:LYS:O	2.28	0.80
1:BO:249:GLN:OE1	1:BO:258:ARG:NH2	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DR:20:ASP:CA	4:DW:856:VAL:CG1	2.60	0.80
3:DV:58:GLU:O	5:DX:3:VAL:CG2	2.30	0.80
1:AM:101:ALA:O	1:CR:44:GLN:NE2	2.15	0.80
1:BI:105:ARG:HG2	1:DK:14:GLY:N	1.96	0.80
1:BU:19:PHE:HE2	1:DP:16:LYS:NZ	1.76	0.80
1:BU:213:PHE:O	1:BU:215:GLU:HG3	1.80	0.80
1:CJ:203:ASN:ND2	1:CJ:212:GLY:O	2.15	0.80
1:CG:254:GLY:O	1:CG:257:LYS:NZ	2.14	0.80
1:AP:99:THR:OG1	1:CW:329:GLU:OE1	1.99	0.80
1:AW:14:GLY:HA2	1:BK:103:TYR:HE1	1.38	0.80
1:BC:82:ASN:ND2	1:BC:164:THR:O	2.14	0.80
7:ED:379:VAL:HG22	7:EE:398:MET:HB2	1.64	0.80
7:ED:456:LEU:C	7:EE:438:MET:CE	2.50	0.80
7:ED:557:GLN:NE2	7:EE:579:LEU:CB	2.44	0.80
1:AK:145:ASN:HB3	1:BK:17:LEU:CD1	2.11	0.79
1:AP:105:ARG:HG2	1:CS:15:LYS:CB	2.11	0.79
1:AP:147:ALA:O	1:CR:143:LEU:CA	2.29	0.79
1:AW:105:ARG:NE	1:BK:14:GLY:N	2.27	0.79
7:ED:419:LEU:CD2	7:EE:363:TYR:CD1	2.63	0.79
1:CE:199:LYS:NZ	1:CE:220:ASP:OD2	2.15	0.79
1:DB:311:LYS:NZ	7:ED:26:GLN:HE22	1.75	0.79
1:BU:5:THR:OG1	1:DH:74:MET:HE3	1.80	0.79
1:BU:13:ASN:CA	1:DP:105:ARG:NH1	2.41	0.79
1:BU:103:TYR:CZ	1:DP:16:LYS:HB3	2.18	0.79
1:CB:143:LEU:O	1:CB:144:THR:HG22	1.82	0.79
1:DB:311:LYS:HD2	7:ED:26:GLN:OE1	1.83	0.79
1:DD:203:ASN:ND2	1:DD:213:PHE:O	2.15	0.79
1:DF:230:SER:O	1:DF:298:ARG:NH2	2.15	0.79
1:AP:315:LEU:HG	1:CN:318:ASP:HA	1.64	0.79
1:CN:77:THR:O	1:CW:13:ASN:ND2	2.15	0.79
2:DR:21:ARG:HD3	4:DW:859:LYS:HG3	1.61	0.79
1:AP:108:GLU:CA	1:CS:7:PHE:HE1	1.94	0.79
1:AP:141:GLN:O	1:CR:145:ASN:C	1.96	0.79
1:AS:44:GLN:HG2	1:CS:101:ALA:N	1.97	0.79
1:BI:146:SER:C	1:DH:79:ILE:CG2	2.44	0.79
1:BU:14:GLY:CA	1:DP:102:ASN:CG	2.48	0.79
2:DS:23:TYR:CD2	2:DS:25:TYR:HE1	2.00	0.79
1:AS:73:GLU:HG2	1:CS:3:ASN:CG	2.02	0.79
1:BI:72:GLY:HA2	1:DP:3:ASN:ND2	1.98	0.79
7:ED:456:LEU:O	7:EE:438:MET:CE	2.30	0.79
1:DB:16:LYS:CD	3:DV:234:ARG:HD2	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:105:ARG:HB3	1:CS:13:ASN:N	1.86	0.79
1:BF:162:ARG:NH1	1:BF:329:GLU:OE2	2.16	0.79
1:CQ:171:CYS:SG	1:CQ:340:SER:OG	2.41	0.79
1:DM:252:THR:OG1	1:DM:253:GLN:NE2	2.15	0.79
7:ED:410:HIS:CG	7:EE:406:LEU:CD1	2.51	0.79
1:AM:101:ALA:HB3	1:CR:44:GLN:HE21	1.48	0.79
1:AS:81:SER:O	1:AS:134:ARG:NH2	2.16	0.79
1:AS:143:LEU:H	1:CW:144:THR:H	1.27	0.79
1:DC:13:ASN:OD1	1:DC:15:LYS:NZ	2.16	0.79
5:DX:68:LEU:HD21	5:DY:70:LYS:CE	2.12	0.79
1:AP:12:GLN:NE2	1:CS:102:ASN:HD22	1.79	0.79
1:AP:144:THR:CB	1:CR:141:GLN:CG	2.40	0.79
1:AW:7:PHE:HE1	1:BK:97:ALA:CA	1.95	0.79
1:DA:292:ASP:OD1	1:DA:345:THR:OG1	2.00	0.79
1:AW:94:SER:OG	1:BQ:65:GLU:CD	2.21	0.78
1:CP:135:THR:OG1	1:CP:163:LYS:O	2.00	0.78
1:DC:88:ARG:NH1	1:DD:64:VAL:O	2.16	0.78
7:ED:660:LYS:NZ	7:EE:658:ASN:O	2.13	0.78
1:BB:237:ILE:HD13	1:BB:294:VAL:HG22	1.65	0.78
1:CU:308:ARG:NH1	1:CU:329:GLU:OE2	2.16	0.78
1:AP:103:TYR:C	1:CS:16:LYS:HD3	2.04	0.78
1:BI:17:LEU:HD11	1:DM:143:LEU:C	2.03	0.78
1:BU:15:LYS:HA	1:DP:100:THR:HB	1.65	0.78
1:AD:237:ILE:HD13	1:AD:294:VAL:HG22	1.65	0.78
1:AK:145:ASN:ND2	1:BN:145:ASN:HB2	1.93	0.78
1:AW:6:LEU:CD1	1:BK:92:ARG:NE	2.38	0.78
1:BU:92:ARG:O	1:DP:7:PHE:HB2	1.83	0.78
1:BU:99:THR:HB	1:DH:307:LEU:CG	2.13	0.78
1:DM:249:GLN:OE1	1:DM:258:ARG:NH1	2.17	0.78
5:DX:85:ALA:CB	5:DX:86:ARG:NH2	2.46	0.78
7:ED:305:SER:HB3	7:EE:284:ALA:CB	2.13	0.78
1:AH:162:ARG:NH1	1:AH:329:GLU:OE2	2.16	0.78
1:AM:14:GLY:CA	1:CN:105:ARG:HH11	1.95	0.78
1:AP:12:GLN:NE2	1:CS:102:ASN:ND2	2.31	0.78
1:DB:39:LYS:HG2	7:ED:16:VAL:HG13	1.64	0.78
5:DX:85:ALA:CB	5:DZ:88:MET:HE1	1.93	0.78
5:DY:67:VAL:HA	5:DY:70:LYS:HB3	1.65	0.78
6:EA:102:SER:O	6:EA:103:THR:C	2.22	0.78
7:ED:336:ILE:HA	7:EE:125:GLN:NE2	1.99	0.78
7:ED:557:GLN:OE1	7:EE:578:LEU:HA	1.83	0.78
7:EE:21:ARG:NH2	7:EE:294:ILE:CG1	2.43	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:148:ALA:C	1:CR:143:LEU:HA	2.04	0.78
3:DV:44:LYS:HZ3	5:DX:14:ASN:HB3	1.48	0.78
1:AP:320:SER:C	1:CZ:65:GLU:OE2	2.13	0.78
1:AW:16:LYS:CG	1:BK:103:TYR:HD2	1.95	0.78
1:AY:230:SER:OG	1:AY:339:ALA:O	2.02	0.78
1:AY:313:THR:OG1	1:AY:325:MET:O	2.01	0.78
1:BI:147:ALA:CB	1:DH:79:ILE:CG2	2.62	0.78
1:DC:143:LEU:O	3:DV:84:LYS:HE2	1.82	0.78
1:DL:111:TYR:OH	1:DN:52:ASP:OD2	2.02	0.78
1:AP:105:ARG:HA	1:CS:13:ASN:O	1.44	0.78
1:BO:95:ASP:O	1:BO:99:THR:OG1	2.01	0.78
1:BQ:81:SER:O	1:BQ:134:ARG:NH2	2.16	0.78
1:AH:222:THR:OG1	1:AH:275:ASP:OD2	2.02	0.78
1:AW:14:GLY:O	1:BK:103:TYR:CZ	2.36	0.78
1:CZ:254:GLY:O	1:CZ:257:LYS:NZ	2.16	0.78
1:DK:102:ASN:ND2	1:DK:108:GLU:OE1	2.17	0.78
1:AA:313:THR:OG1	1:AA:325:MET:O	2.01	0.77
1:AM:99:THR:HG21	1:CR:308:ARG:CD	2.14	0.77
1:AP:144:THR:OG1	1:CR:141:GLN:CB	2.32	0.77
1:AS:143:LEU:CD2	1:CW:142:TYR:HA	1.78	0.77
1:BS:207:PRO:O	1:BS:210:ASN:ND2	2.17	0.77
7:ED:543:ILE:HD11	7:EE:578:LEU:HD21	1.64	0.77
7:ED:628:GLU:HG2	7:EE:627:PHE:CD2	2.15	0.77
1:AP:108:GLU:CA	1:CS:7:PHE:CE1	2.67	0.77
1:BX:292:ASP:OD1	1:BX:345:THR:OG1	2.01	0.77
7:ED:557:GLN:NE2	7:EE:579:LEU:N	2.30	0.77
7:ED:635:GLU:CG	7:EE:634:ASP:OD2	2.24	0.77
1:BI:105:ARG:N	1:DK:14:GLY:N	2.31	0.77
1:BU:92:ARG:NE	1:DP:5:THR:C	2.34	0.77
2:DS:23:TYR:H	4:DW:846:THR:HA	1.49	0.77
7:ED:660:LYS:CD	7:EE:658:ASN:HB3	2.14	0.77
1:AA:230:SER:OG	1:AA:339:ALA:O	2.02	0.77
1:AK:74:MET:HB2	1:BK:6:LEU:O	1.83	0.77
1:AK:142:TYR:CA	1:BN:144:THR:HA	2.13	0.77
1:AW:6:LEU:HD13	1:BK:92:ARG:NH1	1.97	0.77
3:DV:162:GLU:CD	5:DX:14:ASN:ND2	2.37	0.77
7:ED:131:ARG:HH22	7:EE:269:ARG:NH1	1.74	0.77
7:ED:379:VAL:HG22	7:EE:398:MET:CB	2.13	0.77
1:AM:7:PHE:CZ	1:CN:108:GLU:CD	2.58	0.77
1:AM:103:TYR:HD2	1:CN:16:LYS:HG2	0.78	0.77
3:DV:159:ASP:OD2	5:DY:25:ILE:HG12	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ED:213:HIS:NE2	7:EE:274:ALA:O	2.17	0.77
1:AK:258:ARG:O	1:AW:257:LYS:NZ	2.18	0.77
1:BH:203:ASN:HA	1:BH:214:ASP:HB2	1.65	0.77
1:DC:100:THR:HG22	1:DC:101:ALA:H	1.50	0.77
3:DV:175:ILE:CG1	5:DY:15:VAL:HA	2.15	0.77
7:ED:362:GLY:CA	7:EE:371:ASN:HD21	1.97	0.77
1:AP:141:GLN:HE22	1:CR:143:LEU:CB	1.81	0.77
1:BM:162:ARG:NH1	1:BM:329:GLU:OE2	2.18	0.77
7:ED:625:THR:HG22	7:EE:624:ARG:NH1	1.98	0.77
1:AJ:203:ASN:HA	1:AJ:214:ASP:HB2	1.65	0.77
1:AK:148:ALA:HA	1:BN:143:LEU:CD1	2.10	0.77
1:AS:143:LEU:HD22	1:CW:142:TYR:HA	1.66	0.77
1:AW:99:THR:CB	1:BN:308:ARG:HD3	2.15	0.77
1:BU:5:THR:OG1	1:DH:74:MET:HE2	1.84	0.77
3:DU:83:ALA:HB1	5:DZ:25:ILE:O	1.85	0.77
7:ED:335:PRO:O	7:EE:125:GLN:NE2	2.17	0.77
1:AH:65:GLU:HG2	1:BK:94:SER:OG	1.85	0.77
1:BU:13:ASN:CB	1:DH:77:THR:OG1	2.32	0.77
1:CX:249:GLN:OE1	1:CX:258:ARG:NH1	2.18	0.77
1:DO:105:ARG:NH2	1:DO:108:GLU:OE1	2.18	0.77
5:DY:80:PHE:HA	5:DY:83:GLN:HB3	1.67	0.77
7:ED:410:HIS:CD2	7:EE:373:GLY:O	2.37	0.77
1:AP:96:THR:HG21	1:CZ:64:VAL:CG1	2.15	0.76
1:AZ:20:ALA:O	1:AZ:21:ASN:ND2	2.18	0.76
1:BF:222:THR:OG1	1:BF:275:ASP:OD2	2.02	0.76
1:BI:13:ASN:HB2	1:DM:76:PRO:HG2	1.63	0.76
1:BX:215:GLU:HA	1:BX:248:LEU:HD11	1.67	0.76
3:DU:26:ARG:NH2	4:DW:973:ASN:N	2.33	0.76
7:ED:213:HIS:CE1	7:EE:274:ALA:O	2.38	0.76
7:ED:221:GLN:HE22	7:EE:286:MET:HB2	1.49	0.76
7:ED:628:GLU:CG	7:EE:627:PHE:HD2	1.51	0.76
1:AS:75:LYS:O	1:CW:153:ALA:CB	2.33	0.76
1:BI:322:GLU:O	1:DK:7:PHE:HD2	1.64	0.76
1:BU:7:PHE:CD2	1:DP:93:VAL:HG12	2.19	0.76
1:BU:94:SER:HB2	1:DP:8:VAL:HA	0.82	0.76
5:DX:60:GLU:OE2	5:DX:64:GLN:CG	2.32	0.76
1:AU:207:PRO:O	1:AU:210:ASN:ND2	2.18	0.76
1:AW:100:THR:HG22	1:BN:84:THR:HG21	0.82	0.76
1:BI:144:THR:O	1:DP:19:PHE:CE2	2.38	0.76
1:CO:254:GLY:O	1:CO:257:LYS:NZ	2.18	0.76
3:DV:63:ILE:HG12	3:DV:133:ALA:HB3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DX:53:ASP:O	5:DX:54:ASP:C	2.23	0.76
7:ED:430:ARG:HG2	7:EE:66:GLU:CD	2.06	0.76
1:AK:71:ASP:OD2	1:BK:6:LEU:HD13	1.84	0.76
1:AP:94:SER:O	1:CS:7:PHE:HD2	1.67	0.76
1:BS:81:SER:O	1:BS:134:ARG:NH2	2.18	0.76
3:DV:192:VAL:HG23	4:DW:926:ASN:ND2	2.01	0.76
1:AD:88:ARG:NH2	1:AE:67:SER:O	2.19	0.76
1:AH:68:ARG:O	1:AK:88:ARG:NH2	2.19	0.76
1:AQ:95:ASP:O	1:AQ:99:THR:OG1	2.01	0.76
1:AS:75:LYS:O	1:CW:153:ALA:CA	2.19	0.76
1:AW:3:ASN:N	1:BN:75:LYS:CG	2.44	0.76
1:BI:109:LEU:CB	1:DK:9:SER:OG	2.30	0.76
1:CE:308:ARG:NH2	1:CE:327:GLU:OE1	2.19	0.76
2:DR:23:TYR:CE1	4:DW:853:LYS:HB3	2.21	0.76
7:ED:628:GLU:CD	7:EE:627:PHE:HE2	1.34	0.76
1:BU:12:GLN:HB2	1:DP:97:ALA:CB	2.16	0.76
4:DW:311:LEU:CD1	4:DW:372:ARG:NH2	2.23	0.76
1:AA:81:SER:O	1:AA:134:ARG:NH2	2.19	0.76
1:AW:14:GLY:O	1:BK:103:TYR:OH	2.04	0.76
1:BU:319:GLY:CA	1:DH:313:THR:HG23	2.16	0.76
3:DV:66:GLY:O	3:DV:68:ALA:N	2.19	0.76
7:ED:419:LEU:CD2	7:EE:363:TYR:CZ	2.69	0.76
1:BI:102:ASN:C	1:DK:15:LYS:CG	2.46	0.76
1:BI:322:GLU:HG3	1:DK:7:PHE:O	1.85	0.76
3:DU:26:ARG:HB2	4:DW:973:ASN:HD21	1.51	0.76
3:DU:83:ALA:CB	5:DZ:25:ILE:O	2.33	0.76
5:DX:85:ALA:HB1	5:DZ:88:MET:HE3	1.67	0.76
1:AG:222:THR:OG1	1:AG:275:ASP:OD2	2.04	0.76
1:AM:100:THR:HG21	1:CN:11:ASP:CG	2.06	0.76
1:AM:108:GLU:OE2	1:CN:12:GLN:NE2	2.19	0.76
1:AX:81:SER:O	1:AX:134:ARG:NH2	2.19	0.76
1:BF:68:ARG:O	1:BI:88:ARG:NH2	2.19	0.76
1:BV:81:SER:O	1:BV:134:ARG:NH2	2.19	0.76
5:DX:78:GLN:HE21	5:DX:78:GLN:HA	1.51	0.76
5:DX:74:GLU:CD	5:DZ:81:LYS:HE2	2.06	0.76
1:AO:162:ARG:NH1	1:AO:329:GLU:OE2	2.18	0.75
1:AY:81:SER:O	1:AY:134:ARG:NH2	2.19	0.75
1:CC:3:ASN:OD1	1:CC:5:THR:OG1	2.02	0.75
3:DU:54:PRO:CD	5:DX:17:GLN:HB2	2.11	0.75
1:AG:290:PRO:O	1:AG:291:THR:HG22	1.86	0.75
1:AM:95:ASP:OD2	1:CV:67:SER:HA	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:17:LEU:CD2	1:CW:145:ASN:HD22	1.88	0.75
1:AW:16:LYS:CB	1:BK:103:TYR:CD2	2.66	0.75
1:BI:92:ARG:HH21	1:DK:6:LEU:CD2	1.93	0.75
1:AM:97:ALA:N	1:CN:8:VAL:N	2.34	0.75
1:AP:12:GLN:O	1:CW:77:THR:HG21	1.76	0.75
1:AW:94:SER:CB	1:BQ:65:GLU:OE2	2.35	0.75
1:BU:12:GLN:OE1	1:DP:100:THR:OG1	2.04	0.75
1:CF:65:GLU:OE2	1:CJ:162:ARG:NH1	2.18	0.75
3:DV:56:GLU:OE2	3:DV:78:GLN:NE2	2.20	0.75
1:AP:144:THR:HG21	1:CR:141:GLN:NE2	1.91	0.75
1:BB:83:VAL:O	1:BB:164:THR:OG1	2.02	0.75
1:BB:88:ARG:NH2	1:BC:67:SER:O	2.19	0.75
1:DB:136:ASP:OD1	1:DF:10:TYR:OH	2.02	0.75
2:DT:17:TYR:O	2:DT:19:ARG:N	2.19	0.75
3:DU:210:ASP:OD1	3:DU:211:GLU:N	2.20	0.75
1:AB:20:ALA:O	1:AB:21:ASN:ND2	2.18	0.75
1:AK:143:LEU:CD2	1:BN:145:ASN:OD1	2.34	0.75
1:AP:320:SER:CA	1:CZ:65:GLU:CG	2.57	0.75
1:AU:81:SER:O	1:AU:134:ARG:NH2	2.18	0.75
1:BI:109:LEU:CD1	1:DK:7:PHE:CD2	2.69	0.75
1:BU:92:ARG:CB	1:DP:6:LEU:O	2.35	0.75
1:BU:96:THR:O	1:DH:307:LEU:HD21	1.86	0.75
7:ED:244:ILE:O	7:ED:244:ILE:HG22	1.87	0.75
7:ED:646:LYS:HA	7:EE:644:GLN:NE2	2.01	0.75
1:AF:162:ARG:NH1	1:AF:329:GLU:OE2	2.20	0.75
1:AS:73:GLU:CD	1:CS:4:PRO:HA	2.07	0.75
1:BI:92:ARG:HD2	1:DK:6:LEU:CA	2.16	0.75
1:BU:94:SER:N	1:DP:8:VAL:HA	2.01	0.75
1:DB:39:LYS:HB3	7:ED:16:VAL:HG11	0.78	0.75
3:DV:219:GLN:O	3:DV:222:SER:OG	2.03	0.75
5:DX:85:ALA:HB1	5:DZ:88:MET:SD	2.19	0.75
1:AW:100:THR:HG21	1:BN:84:THR:CG2	2.14	0.75
1:BF:74:MET:HE1	1:DK:6:LEU:HG	1.47	0.75
1:BU:93:VAL:HG13	1:DP:7:PHE:HD1	1.50	0.75
1:AK:146:SER:CB	1:BN:141:GLN:H	1.99	0.75
1:CX:308:ARG:NH1	1:CX:327:GLU:OE1	2.20	0.75
3:DV:26:ARG:HH22	3:DV:27:ASP:CG	1.88	0.75
7:ED:628:GLU:CB	7:EE:627:PHE:HE2	1.97	0.75
1:AP:3:ASN:C	1:CW:74:MET:HG3	2.06	0.74
1:BU:13:ASN:CB	1:DP:105:ARG:CZ	2.54	0.74
3:DV:72:PRO:N	5:DY:30:GLN:NE2	2.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EC:100:ASN:O	6:EC:103:THR:CA	2.35	0.74
1:AP:94:SER:HB3	1:CS:8:VAL:HA	1.68	0.74
1:AW:16:LYS:CD	1:BK:101:ALA:C	2.56	0.74
1:BI:258:ARG:O	1:BU:257:LYS:NZ	2.18	0.74
5:DY:74:GLU:CB	5:DZ:69:MET:HE1	2.14	0.74
1:AP:98:ASN:ND2	1:CS:7:PHE:HE2	1.83	0.74
1:BI:73:GLU:OE2	1:DP:4:PRO:CD	2.30	0.74
1:BI:99:THR:HG22	1:DM:45:THR:HG21	1.68	0.74
1:BL:162:ARG:NH1	1:BL:329:GLU:OE2	2.19	0.74
1:BY:28:PRO:O	1:BY:122:ARG:NH2	2.21	0.74
1:CV:81:SER:O	1:CV:134:ARG:NH2	2.19	0.74
7:ED:410:HIS:HA	7:EE:406:LEU:HD13	1.67	0.74
7:ED:604:VAL:HG23	7:EE:599:MET:HA	1.66	0.74
1:AS:45:THR:CG2	1:CS:99:THR:CB	2.65	0.74
1:AW:7:PHE:CB	1:BK:93:VAL:CG1	2.59	0.74
1:AN:162:ARG:NH1	1:AN:329:GLU:OE2	2.19	0.74
1:AW:101:ALA:O	1:BN:42:ILE:HB	1.87	0.74
1:BE:290:PRO:O	1:BE:291:THR:HG22	1.87	0.74
1:DC:144:THR:N	3:DV:85:ASP:OD2	2.19	0.74
1:DD:143:LEU:O	1:DD:144:THR:OG1	2.05	0.74
5:DX:85:ALA:CB	5:DZ:91:ILE:HD13	2.16	0.74
1:BI:143:LEU:O	1:DH:143:LEU:HA	1.87	0.74
2:DR:23:TYR:CZ	4:DW:853:LYS:HB3	2.22	0.74
1:BD:162:ARG:NH1	1:BD:329:GLU:OE2	2.20	0.74
1:CP:12:GLN:O	1:CT:145:ASN:ND2	2.20	0.74
1:AS:145:ASN:N	1:CW:143:LEU:O	2.21	0.74
5:DY:73:ILE:HA	5:DY:76:LEU:HB2	1.68	0.74
1:AJ:202:GLN:O	1:AJ:349:LYS:NZ	2.21	0.74
1:AP:8:VAL:HG12	1:CS:94:SER:CB	2.18	0.74
3:DV:26:ARG:HG3	4:DW:969:SER:OG	1.86	0.74
7:ED:604:VAL:HG21	7:EE:599:MET:CA	2.15	0.74
1:AP:3:ASN:C	1:CW:74:MET:CG	2.56	0.74
1:AW:7:PHE:HE1	1:BK:97:ALA:C	1.91	0.74
1:DC:90:VAL:HG21	1:DD:71:ASP:HB2	1.70	0.74
7:ED:470:ARG:NH2	7:EE:81:SER:N	2.27	0.74
1:AW:7:PHE:HB3	1:BK:93:VAL:HA	1.68	0.73
1:BI:104:GLY:C	1:DK:14:GLY:HA2	1.99	0.73
1:BZ:90:VAL:HG21	1:CA:71:ASP:HB3	1.67	0.73
3:DV:95:GLU:OE1	3:DV:95:GLU:N	2.21	0.73
7:ED:467:MET:HG3	7:EE:76:ILE:CD1	2.17	0.73
7:ED:646:LYS:HB2	7:EE:644:GLN:HE22	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:50:GLN:HA	1:AS:79:ILE:HD13	1.70	0.73
1:BI:95:ASP:CB	1:DO:65:GLU:HB3	2.19	0.73
1:BU:4:PRO:CA	1:DH:74:MET:HA	2.13	0.73
1:CL:105:ARG:O	1:CP:50:GLN:NE2	2.21	0.73
1:DB:16:LYS:CE	3:DV:234:ARG:HD2	2.19	0.73
2:DR:25:TYR:CE2	4:DW:847:TRP:O	2.41	0.73
7:ED:516:HIS:HB3	7:EE:108:GLN:HE22	0.92	0.73
7:ED:552:LEU:HD21	7:EE:578:LEU:O	1.85	0.73
1:AM:6:LEU:CD1	1:CR:71:ASP:CB	2.66	0.73
1:AK:142:TYR:HB2	1:BN:146:SER:CB	2.18	0.73
1:AM:14:GLY:N	1:CN:105:ARG:HH12	1.84	0.73
1:AP:9:SER:H	1:CS:96:THR:CB	1.98	0.73
1:BH:202:GLN:O	1:BH:349:LYS:NZ	2.21	0.73
1:BR:81:SER:O	1:BR:134:ARG:NH2	2.22	0.73
1:BZ:249:GLN:OE1	1:BZ:258:ARG:NH1	2.21	0.73
3:DU:168:ASP:OD1	3:DU:169:THR:N	2.22	0.73
6:EC:101:LEU:O	6:EC:102:SER:C	2.26	0.73
7:ED:646:LYS:HA	7:EE:644:GLN:HE22	1.51	0.73
1:AP:108:GLU:CG	1:CS:11:ASP:O	2.36	0.73
1:BO:81:SER:O	1:BO:134:ARG:NH2	2.22	0.73
1:BU:12:GLN:CB	1:DP:97:ALA:CB	2.66	0.73
3:DV:192:VAL:HG23	4:DW:926:ASN:HD21	1.52	0.73
1:AK:81:SER:O	1:AK:134:ARG:NH2	2.22	0.73
1:AP:3:ASN:O	1:CW:75:LYS:HG2	1.88	0.73
1:AT:81:SER:O	1:AT:134:ARG:NH2	2.22	0.73
1:AW:100:THR:CB	1:BN:44:GLN:O	2.34	0.73
1:BG:162:ARG:NH1	1:BG:329:GLU:OE2	2.22	0.73
1:BI:96:THR:N	1:DK:8:VAL:HG11	2.03	0.73
1:BR:259:ILE:HD11	1:BU:259:ILE:HD13	1.71	0.73
5:DX:68:LEU:CD2	5:DY:70:LYS:HZ2	1.97	0.73
1:AS:65:GLU:CG	1:CN:320:SER:OG	2.36	0.73
1:AS:73:GLU:HG2	1:CS:3:ASN:CB	2.18	0.73
1:AW:100:THR:CB	1:BN:45:THR:HA	2.17	0.73
7:ED:376:LYS:CG	7:EE:397:GLU:HB2	2.18	0.73
7:ED:543:ILE:CD1	7:EE:578:LEU:HD21	2.19	0.73
1:AK:144:THR:O	1:BN:143:LEU:HD23	1.89	0.73
1:AP:145:ASN:OD1	1:CR:145:ASN:CG	2.17	0.73
1:AQ:81:SER:O	1:AQ:134:ARG:NH2	2.22	0.73
1:BM:260:PHE:O	1:BM:263:THR:OG1	2.07	0.73
1:BQ:50:GLN:HA	1:BQ:79:ILE:HD13	1.70	0.73
1:CP:105:ARG:NH1	1:CQ:13:ASN:O	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:96:THR:N	1:CN:8:VAL:N	2.37	0.73
1:AO:260:PHE:O	1:AO:263:THR:OG1	2.07	0.73
1:BU:13:ASN:H	1:DP:105:ARG:NH1	1.81	0.73
1:DD:95:ASP:OD2	1:DQ:308:ARG:NH2	2.22	0.73
3:DU:26:ARG:CB	4:DW:973:ASN:ND2	2.49	0.73
1:AM:93:VAL:HG12	1:CN:8:VAL:CG2	2.11	0.73
1:AM:215:GLU:HG3	1:AM:248:LEU:HD22	1.70	0.73
1:BU:99:THR:OG1	1:DH:308:ARG:CA	2.28	0.73
1:DP:58:ASP:O	1:DP:61:ASN:ND2	2.22	0.73
7:ED:221:GLN:HE21	7:EE:286:MET:HE2	1.51	0.73
1:AI:162:ARG:NH1	1:AI:329:GLU:OE2	2.22	0.72
1:AJ:46:ILE:O	1:AV:18:SER:OG	2.07	0.72
1:AW:99:THR:CA	1:BN:308:ARG:CG	2.37	0.72
1:BF:313:THR:HG21	1:DK:319:GLY:HA2	1.71	0.72
1:BI:144:THR:C	1:DP:19:PHE:CZ	2.63	0.72
1:CN:218:ILE:O	1:CN:222:THR:HG23	1.88	0.72
1:AP:12:GLN:HB3	1:CS:105:ARG:HH11	1.52	0.72
1:AP:96:THR:CG2	1:CZ:65:GLU:CA	2.66	0.72
3:DV:44:LYS:HZ1	5:DX:14:ASN:CG	1.86	0.72
6:EA:102:SER:C	6:EA:104:GLU:N	2.36	0.72
1:BK:215:GLU:HG3	1:BK:248:LEU:HD22	1.70	0.72
3:DU:153:ILE:HD12	5:DZ:27:ALA:CA	2.16	0.72
1:AS:144:THR:OG1	1:CW:142:TYR:C	2.28	0.72
1:AX:222:THR:OG1	1:AX:275:ASP:OD1	2.06	0.72
1:BI:81:SER:O	1:BI:134:ARG:NH2	2.22	0.72
3:DV:70:ILE:O	5:DY:30:GLN:CD	2.27	0.72
1:BU:16:LYS:CE	1:DP:102:ASN:CG	2.33	0.72
1:DC:144:THR:CA	3:DV:85:ASP:HB2	1.96	0.72
1:DF:30:ASP:OD2	1:DF:287:ARG:NH2	2.22	0.72
7:ED:419:LEU:HD21	7:EE:363:TYR:CG	2.24	0.72
7:ED:467:MET:HE1	7:EE:72:LEU:HD23	0.77	0.72
1:AS:75:LYS:HA	1:CW:152:VAL:CG2	2.20	0.72
1:BH:46:ILE:O	1:BT:18:SER:OG	2.07	0.72
1:BI:105:ARG:HG2	1:DK:13:ASN:CA	1.97	0.72
1:CH:306:VAL:HG22	1:CH:330:VAL:HG12	1.72	0.72
4:DW:330:SER:O	4:DW:354:THR:HG23	1.89	0.72
1:AG:252:THR:OG1	1:AG:254:GLY:O	2.03	0.72
1:BI:92:ARG:CD	1:DK:6:LEU:CG	2.68	0.72
2:DR:22:ASP:O	4:DW:856:VAL:HG22	1.90	0.72
5:DY:74:GLU:HB2	5:DZ:69:MET:CE	2.13	0.72
1:AD:83:VAL:O	1:AD:164:THR:OG1	2.02	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BU:12:GLN:CD	1:DP:100:THR:OG1	2.28	0.72
1:DP:273:ILE:HG22	1:DP:283:ILE:HD11	1.70	0.72
3:DU:195:ASP:OD1	3:DU:196:ASN:N	2.22	0.72
1:AP:12:GLN:C	1:CS:105:ARG:NH1	2.40	0.72
1:AW:7:PHE:CE1	1:BK:97:ALA:CA	2.72	0.72
1:CY:33:PHE:O	1:CY:37:THR:HG23	1.90	0.72
5:DX:13:ASN:ND2	5:DX:18:PHE:O	2.23	0.72
1:BE:222:THR:OG1	1:BE:275:ASP:OD2	2.04	0.72
1:BR:152:VAL:HG22	1:BR:155:LEU:HD12	1.71	0.72
1:CO:114:GLU:OE1	1:CO:114:GLU:N	2.22	0.72
1:CQ:192:ASP:OD1	1:CQ:193:THR:N	2.22	0.72
1:DB:312:ARG:CZ	7:ED:31:MET:HE1	2.18	0.72
7:ED:458:MET:O	7:EE:437:GLY:C	2.28	0.72
1:AC:81:SER:O	1:AC:134:ARG:NH2	2.23	0.71
1:BU:93:VAL:HG13	1:DP:7:PHE:CD1	2.25	0.71
7:ED:448:ASP:OD2	7:EE:441:ASN:ND2	2.20	0.71
1:AW:93:VAL:HG13	1:BK:7:PHE:HD2	1.55	0.71
1:BU:96:THR:HG1	1:DP:9:SER:CB	2.03	0.71
1:BW:237:ILE:HG22	1:BW:294:VAL:HG22	1.72	0.71
1:CK:134:ARG:NH1	1:CK:140:ASP:OD2	2.23	0.71
1:CP:237:ILE:HD13	1:CP:294:VAL:HG22	1.72	0.71
1:DF:143:LEU:O	1:DF:144:THR:OG1	2.07	0.71
2:DR:20:ASP:O	4:DW:856:VAL:CB	2.38	0.71
3:DU:143:SER:HB3	5:DZ:40:TYR:CE1	2.26	0.71
3:DV:60:TYR:CE1	5:DX:3:VAL:N	2.58	0.71
7:ED:466:ARG:NH1	7:EE:77:ASN:HD21	1.87	0.71
7:ED:649:ASN:ND2	7:EE:648:GLU:HG3	2.01	0.71
1:AT:152:VAL:HG22	1:AT:155:LEU:HD12	1.71	0.71
1:BD:101:ALA:O	1:BO:44:GLN:NE2	2.23	0.71
1:BI:275:ASP:OD1	1:BI:279:GLN:N	2.24	0.71
1:BN:81:SER:O	1:BN:134:ARG:NH2	2.23	0.71
1:BU:92:ARG:CB	1:DP:6:LEU:C	2.57	0.71
1:CM:212:GLY:N	1:CM:346:ALA:O	2.23	0.71
1:DC:29:GLN:N	1:DC:29:GLN:OE1	2.22	0.71
1:AF:101:ALA:O	1:AQ:44:GLN:NE2	2.23	0.71
1:BI:92:ARG:HD2	1:DK:6:LEU:CG	2.19	0.71
1:BU:8:VAL:HG22	1:DP:94:SER:CB	2.19	0.71
1:BZ:52:ASP:OD1	1:BZ:53:ALA:N	2.23	0.71
7:ED:628:GLU:CG	7:EE:627:PHE:HE2	1.54	0.71
1:AK:275:ASP:OD1	1:AK:279:GLN:N	2.24	0.71
1:AM:97:ALA:CB	1:CN:9:SER:N	2.53	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:127:ILE:O	1:AO:130:SER:OG	2.08	0.71
1:DB:16:LYS:HG3	3:DV:234:ARG:HD3	1.48	0.71
1:DB:51:THR:OG1	1:DF:24:SER:O	2.05	0.71
1:DB:312:ARG:HH22	7:ED:27:GLY:C	1.92	0.71
3:DV:59:VAL:HA	5:DX:3:VAL:CG2	2.20	0.71
1:AS:40:GLU:OE1	1:AS:333:ARG:NH1	2.23	0.71
1:BI:95:ASP:HB2	1:DO:65:GLU:HB3	1.72	0.71
1:BI:145:ASN:N	1:DP:17:LEU:HD12	2.05	0.71
1:CA:154:GLY:O	1:CA:159:HIS:NE2	2.24	0.71
1:CG:85:GLN:NE2	1:CO:61:ASN:O	2.23	0.71
7:ED:467:MET:HE3	7:EE:72:LEU:CG	2.19	0.71
7:ED:557:GLN:HE22	7:EE:579:LEU:H	1.37	0.71
1:AK:143:LEU:HD22	1:BN:145:ASN:CG	2.10	0.71
1:AM:93:VAL:CG1	1:CN:8:VAL:CG2	2.66	0.71
1:BI:74:MET:CE	1:DP:4:PRO:CA	2.65	0.71
1:BL:306:VAL:HG22	1:BL:330:VAL:HG22	1.72	0.71
1:BQ:40:GLU:OE1	1:BQ:333:ARG:NH1	2.23	0.71
1:CK:81:SER:O	1:CK:134:ARG:NH2	2.23	0.71
3:DU:56:GLU:OE2	3:DU:78:GLN:NE2	2.24	0.71
1:DB:16:LYS:HG3	3:DV:234:ARG:CG	2.20	0.71
1:DB:267:ILE:HD12	1:DF:262:ASN:HB3	1.72	0.71
6:EC:101:LEU:C	6:EC:103:THR:N	2.38	0.71
7:ED:467:MET:HG3	7:EE:76:ILE:HD11	1.72	0.71
1:AM:7:PHE:CE2	1:CN:108:GLU:CG	2.73	0.71
1:BA:81:SER:O	1:BA:134:ARG:NH2	2.23	0.71
1:CR:83:VAL:HG21	1:CR:136:ASP:HB3	1.73	0.71
7:ED:430:ARG:HG2	7:EE:66:GLU:HG3	1.64	0.71
1:AW:100:THR:OG1	1:BN:44:GLN:C	2.28	0.71
1:BT:114:GLU:N	1:BT:114:GLU:OE1	2.24	0.71
1:CC:143:LEU:O	1:CC:144:THR:OG1	2.05	0.71
1:AP:81:SER:O	1:AP:134:ARG:NH2	2.23	0.70
1:AV:114:GLU:OE1	1:AV:114:GLU:N	2.24	0.70
1:BE:190:ASP:OD2	1:BE:196:VAL:HG22	1.91	0.70
1:BI:13:ASN:CG	1:DM:76:PRO:HG3	2.11	0.70
1:BI:145:ASN:N	1:DH:143:LEU:HG	2.06	0.70
1:CE:192:ASP:OD1	1:CE:193:THR:N	2.24	0.70
1:AK:74:MET:CB	1:BK:6:LEU:C	2.54	0.70
1:AK:145:ASN:OD1	1:BN:142:TYR:HA	1.22	0.70
1:BI:94:SER:OG	1:DM:153:ALA:N	2.22	0.70
1:DA:217:ASP:HB3	1:DA:343:LEU:HD11	1.72	0.70
1:BI:13:ASN:N	1:DK:96:THR:HG21	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CW:253:GLN:OE1	1:CW:253:GLN:N	2.24	0.70
2:DS:23:TYR:HB2	2:DS:25:TYR:CD1	2.26	0.70
3:DU:137:TYR:CE2	3:DU:140:ASP:OD2	2.44	0.70
1:AA:254:GLY:O	1:AB:257:LYS:NZ	2.21	0.70
1:AT:259:ILE:HD11	1:AW:259:ILE:HD13	1.71	0.70
1:BU:92:ARG:O	1:DP:6:LEU:C	2.29	0.70
1:CI:192:ASP:OD1	1:CI:193:THR:N	2.23	0.70
1:CW:74:MET:SD	1:CW:75:LYS:NZ	2.62	0.70
1:DF:51:THR:O	1:DF:77:THR:OG1	2.08	0.70
7:ED:338:GLY:CA	7:EE:263:TRP:CH2	2.70	0.70
7:ED:642:GLU:OE1	7:EE:641:GLU:OE2	2.10	0.70
1:AY:203:ASN:HA	1:AY:214:ASP:HB2	1.73	0.70
1:BU:92:ARG:C	1:DP:7:PHE:HB3	2.08	0.70
1:CP:143:LEU:O	1:CP:144:THR:OG1	2.07	0.70
1:AA:203:ASN:HA	1:AA:214:ASP:HB2	1.73	0.70
1:AS:316:ALA:N	1:CS:320:SER:OG	2.24	0.70
1:BU:16:LYS:HB2	1:DP:101:ALA:HB3	1.73	0.70
1:CW:200:VAL:O	1:CW:202:GLN:NE2	2.25	0.70
5:DZ:87:LEU:HA	5:DZ:90:LEU:HD12	1.73	0.70
7:ED:646:LYS:CB	7:EE:644:GLN:HE22	2.02	0.70
1:AP:7:PHE:CZ	1:CW:75:LYS:CG	2.66	0.70
1:BP:83:VAL:O	1:BP:164:THR:OG1	2.06	0.70
2:DR:24:ILE:CB	4:DW:857:TRP:CD1	2.66	0.70
3:DV:175:ILE:HD11	5:DY:15:VAL:C	2.12	0.70
1:AG:190:ASP:OD2	1:AG:196:VAL:HG22	1.92	0.70
1:BE:252:THR:OG1	1:BE:254:GLY:O	2.03	0.70
1:BW:203:ASN:ND2	1:BW:346:ALA:O	2.25	0.70
3:DV:139:PRO:CB	5:DX:39:LYS:HD2	2.20	0.70
3:DV:158:ALA:HB1	5:DY:24:SER:HB2	1.74	0.70
1:AR:83:VAL:O	1:AR:164:THR:OG1	2.06	0.70
3:DU:192:VAL:CG2	4:DW:1004:ARG:N	2.55	0.70
4:DW:215:LEU:HD23	4:DW:232:ALA:CA	2.20	0.70
1:AN:306:VAL:HG22	1:AN:330:VAL:HG22	1.72	0.70
1:AW:6:LEU:CD2	1:BK:92:ARG:HH11	1.77	0.70
1:BI:144:THR:HA	1:DH:143:LEU:HG	1.73	0.70
1:BL:15:LYS:O	1:BO:145:ASN:ND2	2.25	0.70
2:DR:23:TYR:CE1	4:DW:853:LYS:C	2.65	0.70
3:DV:63:ILE:HA	3:DV:68:ALA:HB2	1.72	0.70
7:ED:372:TYR:HD2	7:EE:392:PRO:CD	2.05	0.70
1:AN:15:LYS:O	1:AQ:145:ASN:ND2	2.25	0.69
1:AV:251:ASN:O	1:AV:253:GLN:NE2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DV:44:LYS:NZ	5:DX:14:ASN:CB	2.55	0.69
1:CU:192:ASP:OD1	1:CU:193:THR:N	2.25	0.69
1:DM:317:LYS:NZ	1:DP:316:ALA:O	2.24	0.69
7:ED:470:ARG:O	7:EE:117:TYR:CE2	2.45	0.69
1:BM:230:SER:OG	1:BM:339:ALA:O	2.09	0.69
1:DD:296:PHE:O	1:DD:340:SER:OG	2.09	0.69
1:DJ:130:SER:OG	1:DJ:132:GLN:OE1	2.09	0.69
7:ED:470:ARG:NH2	7:EE:80:CYS:O	2.21	0.69
1:CF:33:PHE:O	1:CF:37:THR:HG23	1.91	0.69
1:CU:105:ARG:NH1	1:CY:14:GLY:O	2.25	0.69
1:DB:245:PHE:CZ	1:DB:273:ILE:HD11	2.28	0.69
6:EA:101:LEU:O	6:EA:104:GLU:CA	2.41	0.69
1:AM:108:GLU:CD	1:CN:12:GLN:NE2	2.39	0.69
1:AO:230:SER:OG	1:AO:339:ALA:O	2.09	0.69
1:AT:238:ASN:ND2	1:AT:290:PRO:O	2.25	0.69
1:AW:99:THR:HA	1:BN:308:ARG:CD	2.21	0.69
1:AZ:250:GLU:OE1	1:AZ:258:ARG:NH2	2.26	0.69
1:BI:108:GLU:CA	1:DK:11:ASP:OD1	2.40	0.69
1:CK:56:SER:OG	1:CZ:122:ARG:NH1	2.25	0.69
1:CO:64:VAL:HG12	1:CO:65:GLU:H	1.56	0.69
2:DR:23:TYR:CE1	4:DW:853:LYS:CB	2.75	0.69
7:EE:241:LYS:O	7:EE:242:ASP:OD1	2.11	0.69
7:ED:378:LEU:CD2	7:EE:401:GLN:HE21	2.05	0.69
1:AK:43:ASN:O	1:BK:100:THR:HG22	1.93	0.69
1:AP:4:PRO:O	1:CS:92:ARG:CZ	2.41	0.69
1:AP:96:THR:HA	1:CW:308:ARG:HH22	1.57	0.69
1:AP:108:GLU:CG	1:CS:12:GLN:CA	2.43	0.69
1:AP:147:ALA:N	1:CR:142:TYR:O	2.25	0.69
1:BI:93:VAL:HB	1:DK:8:VAL:N	2.06	0.69
1:CW:81:SER:O	1:CW:134:ARG:NH2	2.26	0.69
1:DB:309:ALA:HB1	7:ED:23:ASN:OD1	1.93	0.69
1:DG:52:ASP:OD1	1:DG:53:ALA:N	2.25	0.69
4:DW:834:GLU:OE1	4:DW:834:GLU:N	2.24	0.69
7:ED:552:LEU:HD21	7:EE:579:LEU:O	1.84	0.69
1:BI:147:ALA:N	1:DH:143:LEU:HD13	2.04	0.69
1:DD:65:GLU:N	1:DD:65:GLU:OE1	2.26	0.69
3:DV:124:ARG:NH1	5:DZ:28:TYR:CG	2.60	0.69
1:AP:96:THR:HG23	1:CZ:65:GLU:N	1.90	0.69
1:BI:17:LEU:HD12	1:DM:144:THR:N	2.07	0.69
1:BI:144:THR:C	1:DP:19:PHE:HZ	1.95	0.69
1:BN:171:CYS:HG	1:BN:340:SER:HG	1.38	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BU:19:PHE:CD2	1:DP:16:LYS:NZ	2.59	0.69
1:DM:102:ASN:O	1:DN:16:LYS:NZ	2.23	0.69
3:DU:83:ALA:O	5:DZ:25:ILE:N	2.25	0.69
7:ED:241:LYS:O	7:ED:242:ASP:OD1	2.11	0.69
1:AM:16:LYS:HG2	1:CN:102:ASN:C	2.12	0.68
1:BP:162:ARG:NH1	1:BP:329:GLU:OE2	2.26	0.68
1:BU:8:VAL:HG12	1:DP:95:ASP:HB2	1.75	0.68
1:CA:102:ASN:OD1	1:CA:103:TYR:N	2.26	0.68
1:DJ:95:ASP:OD1	1:DJ:320:SER:OG	2.11	0.68
1:DQ:52:ASP:OD1	1:DQ:53:ALA:N	2.26	0.68
1:AM:6:LEU:CD1	1:CR:71:ASP:CG	2.62	0.68
1:AP:92:ARG:CB	1:CS:6:LEU:HA	2.23	0.68
1:AP:96:THR:HG21	1:CZ:64:VAL:HG13	1.75	0.68
1:AR:162:ARG:NH1	1:AR:329:GLU:OE2	2.26	0.68
1:BI:314:GLU:HG3	1:DM:316:ALA:HB1	1.75	0.68
1:BR:238:ASN:ND2	1:BR:290:PRO:O	2.26	0.68
1:DC:31:THR:O	1:DC:34:VAL:HG22	1.93	0.68
1:DC:199:LYS:NZ	1:DC:220:ASP:OD2	2.25	0.68
1:AP:320:SER:CA	1:CZ:65:GLU:HG2	2.20	0.68
1:AT:251:ASN:O	1:AT:252:THR:OG1	2.11	0.68
1:DJ:85:GLN:NE2	1:DJ:162:ARG:O	2.27	0.68
3:DV:44:LYS:HZ3	5:DX:14:ASN:CB	2.06	0.68
7:ED:430:ARG:NH1	7:EE:65:TRP:C	2.41	0.68
1:AM:92:ARG:NH1	1:CR:156:ASN:CG	2.46	0.68
1:AP:16:LYS:CE	1:CS:103:TYR:CB	2.42	0.68
1:AW:19:PHE:CD2	1:BK:16:LYS:CD	2.45	0.68
1:AW:99:THR:CA	1:BN:308:ARG:CD	2.71	0.68
1:BI:145:ASN:C	1:DP:19:PHE:CE1	2.67	0.68
1:AK:142:TYR:N	1:BN:144:THR:CA	2.52	0.68
1:AS:156:ASN:ND2	1:CS:92:ARG:HD3	2.08	0.68
1:BI:12:GLN:C	1:DK:96:THR:CG2	2.62	0.68
1:BI:143:LEU:HB3	1:DP:17:LEU:HD21	1.75	0.68
1:BI:144:THR:HA	1:DH:143:LEU:CG	2.23	0.68
1:BW:40:GLU:N	1:BW:40:GLU:OE1	2.27	0.68
7:ED:470:ARG:CZ	7:EE:80:CYS:C	2.56	0.68
1:AK:143:LEU:H	1:BN:146:SER:H	1.42	0.68
1:BI:71:ASP:C	1:DP:4:PRO:O	2.28	0.68
1:BT:251:ASN:O	1:BT:253:GLN:NE2	2.25	0.68
1:CA:155:LEU:O	1:CA:158:THR:OG1	2.12	0.68
2:DS:23:TYR:CD2	2:DS:25:TYR:CE1	2.82	0.68
1:AM:6:LEU:CD1	1:CR:71:ASP:HB2	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:14:GLY:HA2	1:BK:103:TYR:CD1	2.29	0.68
1:BF:306:VAL:HG12	1:BF:330:VAL:HG22	1.76	0.68
1:BU:6:LEU:H	1:DH:74:MET:CE	2.02	0.68
1:DN:15:LYS:O	1:DP:145:ASN:ND2	2.27	0.68
2:DR:26:GLU:O	2:DR:30:GLN:N	2.25	0.68
7:ED:21:ARG:NH2	7:ED:294:ILE:CG1	2.43	0.68
1:AK:145:ASN:HB3	1:BK:17:LEU:HD11	1.75	0.68
1:AM:92:ARG:HH12	1:CR:156:ASN:ND2	1.85	0.68
1:AP:8:VAL:HG13	1:CS:94:SER:OG	1.92	0.68
1:AP:105:ARG:HB3	1:CS:12:GLN:CG	2.24	0.68
1:BG:249:GLN:OE1	1:BG:249:GLN:N	2.27	0.68
1:BL:251:ASN:O	1:BO:255:SER:OG	2.12	0.68
1:BZ:88:ARG:NH2	1:BZ:327:GLU:OE1	2.26	0.68
1:DJ:292:ASP:OD1	1:DJ:345:THR:OG1	2.09	0.68
1:DM:143:LEU:O	1:DM:144:THR:OG1	2.11	0.68
3:DV:193:GLN:NE2	4:DW:924:HIS:CD2	2.60	0.68
4:DW:891:ASP:OD2	4:DW:894:ASN:ND2	2.26	0.68
1:AP:105:ARG:HB3	1:CS:12:GLN:HG2	1.73	0.68
1:BB:162:ARG:NH1	1:BB:329:GLU:OE2	2.27	0.68
1:BE:111:TYR:OH	1:BK:52:ASP:OD2	2.07	0.68
1:CZ:253:GLN:OE1	1:CZ:253:GLN:N	2.27	0.68
3:DU:171:THR:HB	5:DX:21:THR:HG21	1.76	0.68
1:AB:250:GLU:OE1	1:AB:258:ARG:NH2	2.26	0.68
1:AK:74:MET:N	1:BK:6:LEU:N	2.38	0.68
1:AM:123:ASP:OD1	1:AP:58:ASP:N	2.27	0.68
1:AP:96:THR:HG22	1:CZ:65:GLU:HB2	1.75	0.68
1:AS:76:PRO:CB	1:CS:10:TYR:O	2.41	0.68
1:CK:145:ASN:ND2	1:CZ:13:ASN:OD1	2.27	0.68
1:AI:249:GLN:N	1:AI:249:GLN:OE1	2.27	0.67
1:AK:146:SER:HB2	1:BN:141:GLN:N	2.08	0.67
1:AM:314:GLU:OE2	1:CR:315:LEU:HD22	1.94	0.67
1:AS:145:ASN:CG	1:CW:145:ASN:HD21	1.96	0.67
3:DV:168:ASP:OD1	3:DV:169:THR:N	2.27	0.67
7:ED:221:GLN:NE2	7:EE:286:MET:HE2	2.05	0.67
1:BI:147:ALA:HB1	1:DH:79:ILE:CB	2.15	0.67
1:BI:148:ALA:N	1:DH:79:ILE:HG12	1.93	0.67
1:BR:251:ASN:O	1:BR:252:THR:OG1	2.11	0.67
1:BU:14:GLY:N	1:DP:105:ARG:NH1	2.36	0.67
1:CM:305:MET:SD	1:CM:333:ARG:NH2	2.67	0.67
1:CQ:5:THR:OG1	1:CT:72:GLY:O	2.03	0.67
1:DJ:33:PHE:O	1:DJ:37:THR:OG1	2.05	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DS:23:TYR:CA	4:DW:845:ILE:O	2.30	0.67
3:DU:171:THR:O	3:DU:174:THR:OG1	2.07	0.67
3:DV:44:LYS:NZ	5:DX:14:ASN:HB3	2.08	0.67
1:AJ:215:GLU:OE1	1:AJ:256:ARG:NH2	2.28	0.67
1:AK:143:LEU:O	1:BN:145:ASN:HB3	1.94	0.67
1:AM:322:GLU:N	1:CV:67:SER:CB	2.57	0.67
1:AP:108:GLU:CB	1:CS:7:PHE:CZ	2.59	0.67
1:BX:203:ASN:N	1:BX:214:ASP:OD2	2.27	0.67
1:CU:28:PRO:O	1:CU:122:ARG:NH2	2.27	0.67
1:DC:296:PHE:O	1:DC:340:SER:OG	2.04	0.67
1:DD:105:ARG:NH2	1:DD:108:GLU:OE1	2.27	0.67
5:DX:74:GLU:HG2	5:DZ:77:LYS:NZ	2.08	0.67
1:BI:143:LEU:HD22	1:DP:15:LYS:O	1.95	0.67
1:CJ:202:GLN:NE2	1:CJ:217:ASP:OD1	2.27	0.67
1:CS:192:ASP:OD1	1:CS:193:THR:N	2.28	0.67
5:DX:85:ALA:O	5:DZ:91:ILE:HG21	1.93	0.67
7:ED:338:GLY:C	7:EE:263:TRP:CZ2	2.56	0.67
7:ED:646:LYS:CB	7:EE:644:GLN:NE2	2.57	0.67
1:AH:81:SER:O	1:AH:134:ARG:NH2	2.28	0.67
1:AL:34:VAL:HG23	1:AL:125:GLU:OE1	1.95	0.67
1:AM:317:LYS:HG2	1:CV:68:ARG:CD	2.00	0.67
1:AS:45:THR:HG23	1:CS:99:THR:OG1	1.94	0.67
1:CA:143:LEU:O	1:CA:144:THR:OG1	2.12	0.67
1:CN:96:THR:O	1:CN:100:THR:HG23	1.93	0.67
1:AD:162:ARG:NH1	1:AD:329:GLU:OE2	2.27	0.67
1:AW:201:ALA:HB1	1:AW:214:ASP:HB3	1.77	0.67
1:BI:9:SER:OG	1:DK:95:ASP:C	2.32	0.67
1:BI:99:THR:CB	1:DK:10:TYR:CE2	2.54	0.67
1:BV:222:THR:OG1	1:BV:275:ASP:OD1	2.06	0.67
1:CL:81:SER:O	1:CL:134:ARG:NH2	2.28	0.67
1:DC:90:VAL:HG21	1:DD:71:ASP:CB	2.24	0.67
1:DE:202:GLN:NE2	1:DE:214:ASP:OD1	2.28	0.67
1:AN:251:ASN:O	1:AQ:255:SER:OG	2.12	0.67
1:BI:144:THR:HG22	1:DH:143:LEU:CD2	2.16	0.67
1:BU:14:GLY:HA3	1:DP:102:ASN:HD21	0.50	0.67
1:AM:81:SER:O	1:AM:134:ARG:NH2	2.28	0.67
2:DS:22:ASP:O	2:DS:23:TYR:CB	2.40	0.67
3:DU:138:TYR:CE1	3:DU:145:LEU:HD22	2.29	0.67
1:AP:230:SER:OG	1:AP:339:ALA:O	2.11	0.67
1:AW:162:ARG:NH1	1:AW:329:GLU:OE2	2.28	0.67
1:BJ:34:VAL:HG23	1:BJ:125:GLU:OE1	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BU:13:ASN:CG	1:DH:77:THR:OG1	2.34	0.67
1:BW:168:GLN:HB3	1:BW:180:VAL:HG21	1.77	0.67
1:CA:83:VAL:HG11	1:CA:164:THR:HA	1.76	0.67
2:DR:20:ASP:O	4:DW:856:VAL:HG12	1.92	0.67
6:EB:69:LEU:O	6:EB:70:ASN:C	2.31	0.67
1:AK:142:TYR:HB3	1:BN:146:SER:OG	1.95	0.67
1:AP:3:ASN:C	1:CW:75:LYS:CG	2.21	0.67
1:BD:83:VAL:O	1:BD:164:THR:HG22	1.95	0.67
1:BH:215:GLU:OE1	1:BH:256:ARG:NH2	2.28	0.67
1:CO:314:GLU:OE2	1:CO:317:LYS:N	2.28	0.67
1:CW:250:GLU:OE1	1:CW:258:ARG:NH2	2.25	0.67
7:ED:379:VAL:HG23	7:EE:398:MET:CB	1.95	0.67
1:AM:99:THR:CG2	1:CR:308:ARG:HD2	2.24	0.66
1:AO:222:THR:OG1	1:AO:275:ASP:OD2	2.07	0.66
1:BF:81:SER:O	1:BF:134:ARG:NH2	2.28	0.66
1:BK:81:SER:O	1:BK:134:ARG:NH2	2.28	0.66
5:DX:53:ASP:O	5:DX:54:ASP:O	2.14	0.66
1:AP:13:ASN:HB2	1:CS:105:ARG:HH22	1.60	0.66
1:BI:103:TYR:OH	1:DM:142:TYR:HA	1.95	0.66
1:BI:146:SER:O	1:DH:79:ILE:HG21	1.74	0.66
1:BJ:213:PHE:O	1:BJ:244:ILE:HG21	1.95	0.66
1:CT:144:THR:OG1	1:CU:143:LEU:O	2.09	0.66
7:ED:21:ARG:HH21	7:ED:294:ILE:CD1	2.05	0.66
7:ED:301:LYS:HD2	7:EE:283:ILE:HG23	1.74	0.66
7:ED:608:GLN:OE1	7:EE:602:ALA:HB1	1.95	0.66
1:AP:7:PHE:CA	1:CS:92:ARG:NH1	2.48	0.66
1:AP:94:SER:O	1:CS:7:PHE:HB3	1.95	0.66
1:AW:16:LYS:HA	1:BK:103:TYR:HE2	0.50	0.66
1:AZ:31:THR:O	1:AZ:35:SER:OG	2.09	0.66
1:CJ:3:ASN:ND2	1:CP:73:GLU:OE1	2.28	0.66
1:CK:82:ASN:ND2	1:CK:332:LEU:O	2.27	0.66
2:DR:19:ARG:NH2	2:DR:23:TYR:HB2	2.11	0.66
1:AP:92:ARG:NH2	1:CW:156:ASN:OD1	2.28	0.66
1:AP:108:GLU:HG2	1:CS:11:ASP:O	1.94	0.66
1:CD:52:ASP:OD1	1:CD:53:ALA:N	2.29	0.66
1:CO:33:PHE:O	1:CO:37:THR:HG23	1.95	0.66
3:DU:235:LEU:CD1	7:ED:354:ASP:HB3	2.25	0.66
1:AH:306:VAL:HG12	1:AH:330:VAL:HG22	1.76	0.66
1:AL:213:PHE:O	1:AL:244:ILE:HG21	1.95	0.66
1:BI:91:VAL:HG12	1:DK:7:PHE:HD1	1.60	0.66
1:BI:320:SER:HB2	1:DM:153:ALA:HB1	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BK:123:ASP:OD1	1:BN:58:ASP:N	2.27	0.66
3:DV:173:LEU:H	3:DV:173:LEU:HD22	1.60	0.66
1:AW:7:PHE:HB3	1:BK:93:VAL:CA	2.25	0.66
1:BI:72:GLY:C	1:DP:3:ASN:ND2	2.48	0.66
1:BU:94:SER:H	1:DP:8:VAL:HA	1.58	0.66
1:BU:162:ARG:NH1	1:BU:329:GLU:OE2	2.28	0.66
4:DW:240:THR:HB	4:DW:276:ASN:ND2	2.10	0.66
7:ED:337:PRO:HD3	7:EE:125:GLN:HE21	0.64	0.66
7:ED:467:MET:CE	7:EE:72:LEU:CG	2.73	0.66
7:ED:608:GLN:OE1	7:EE:602:ALA:CB	2.44	0.66
1:BI:99:THR:HB	1:DK:10:TYR:CE2	2.29	0.66
3:DV:173:LEU:HD22	3:DV:173:LEU:N	2.10	0.66
7:ED:458:MET:H	7:EE:438:MET:HE2	1.60	0.66
7:ED:628:GLU:OE2	7:EE:627:PHE:HE2	1.40	0.66
1:AK:249:GLN:NE2	1:AK:257:LYS:O	2.29	0.66
1:BI:96:THR:H	1:DM:152:VAL:CG2	2.09	0.66
1:BU:96:THR:HG1	1:DP:9:SER:HG	0.82	0.66
7:ED:379:VAL:HG23	7:EE:398:MET:HG2	1.61	0.66
7:ED:552:LEU:HD23	7:EE:578:LEU:C	2.13	0.66
7:ED:628:GLU:CD	7:EE:627:PHE:CE2	0.64	0.66
1:AK:141:GLN:O	1:AK:144:THR:OG1	2.13	0.66
1:AW:99:THR:HG22	1:BN:307:LEU:HB3	1.78	0.66
1:BF:290:PRO:O	1:BF:291:THR:OG1	2.13	0.66
1:CJ:33:PHE:O	1:CJ:37:THR:HG23	1.95	0.66
7:ED:336:ILE:HA	7:EE:125:GLN:HE22	1.60	0.66
1:AM:6:LEU:HD12	1:CR:71:ASP:CG	2.16	0.66
1:AW:7:PHE:CB	1:BK:93:VAL:HA	2.25	0.66
1:BW:136:ASP:OD1	1:BW:162:ARG:NH2	2.29	0.66
1:CT:171:CYS:SG	1:CT:340:SER:OG	2.52	0.66
3:DU:94:PRO:HA	3:DU:97:ILE:HG22	1.75	0.66
1:AB:67:SER:OG	1:AF:88:ARG:NH2	2.29	0.65
1:AM:7:PHE:HB3	1:CN:93:VAL:CG1	2.04	0.65
1:AM:14:GLY:H	1:CN:105:ARG:HH12	1.38	0.65
1:AP:96:THR:HG23	1:CZ:65:GLU:CA	2.25	0.65
1:BU:94:SER:HB3	1:DP:8:VAL:C	2.14	0.65
1:CK:222:THR:HG22	1:CK:281:TYR:CE2	2.31	0.65
1:CW:252:THR:OG1	1:CW:255:SER:O	2.04	0.65
3:DU:137:TYR:HE2	3:DU:140:ASP:OD2	1.79	0.65
5:DY:30:GLN:OE1	5:DY:30:GLN:N	2.29	0.65
6:EA:164:SER:C	6:EA:166:TYR:N	2.47	0.65
7:ED:301:LYS:CG	7:EE:283:ILE:HB	2.07	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ED:343:GLN:NE2	7:EE:65:TRP:HE1	1.94	0.65
1:AC:162:ARG:NH1	1:AC:329:GLU:OE2	2.29	0.65
1:AF:83:VAL:O	1:AF:164:THR:HG22	1.95	0.65
1:BA:162:ARG:NH1	1:BA:329:GLU:OE2	2.29	0.65
1:BI:92:ARG:HH21	1:DK:6:LEU:HD23	1.53	0.65
1:AR:90:VAL:HG11	1:AU:69:ALA:CB	2.26	0.65
1:AY:305:MET:O	1:AY:331:GLY:N	2.29	0.65
1:BI:315:LEU:HD21	1:DP:318:ASP:OD1	1.93	0.65
1:CS:231:GLU:OE1	1:CS:231:GLU:N	2.30	0.65
1:DG:93:VAL:HG11	1:DG:109:LEU:HD13	1.77	0.65
3:DU:143:SER:CB	5:DZ:40:TYR:CZ	2.75	0.65
7:ED:458:MET:N	7:EE:438:MET:HE2	2.11	0.65
1:AP:104:GLY:HA2	1:CS:15:LYS:HG3	1.68	0.65
1:AS:75:LYS:CA	1:CW:152:VAL:HG23	2.19	0.65
1:AW:99:THR:CB	1:BN:308:ARG:CD	2.72	0.65
1:AW:100:THR:HB	1:BN:42:ILE:HD12	1.77	0.65
1:BI:102:ASN:ND2	1:DK:12:GLN:N	2.40	0.65
1:BP:90:VAL:HG11	1:BS:69:ALA:CB	2.26	0.65
1:BU:201:ALA:HB1	1:BU:214:ASP:HB3	1.77	0.65
4:DW:340:THR:O	4:DW:342:THR:N	2.29	0.65
7:ED:372:TYR:HE2	7:EE:392:PRO:CD	2.04	0.65
1:AA:305:MET:O	1:AA:331:GLY:N	2.29	0.65
1:AC:248:LEU:O	1:AC:256:ARG:NH2	2.30	0.65
1:BU:8:VAL:CG1	1:DP:95:ASP:CB	2.69	0.65
1:BU:8:VAL:CB	1:DP:96:THR:OG1	2.44	0.65
1:CA:143:LEU:N	1:CA:146:SER:OG	2.28	0.65
1:CF:214:ASP:O	1:CF:218:ILE:HD12	1.96	0.65
1:CS:17:LEU:HD22	1:CW:143:LEU:HD22	1.78	0.65
5:DZ:79:ASP:O	5:DZ:83:GLN:HG3	1.97	0.65
1:AI:213:PHE:HD1	1:AI:214:ASP:H	1.43	0.65
1:AP:108:GLU:HG3	1:CS:11:ASP:O	1.97	0.65
1:AP:146:SER:O	1:CR:79:ILE:HG21	1.96	0.65
1:AS:71:ASP:OD1	1:CS:4:PRO:CD	2.43	0.65
1:AS:146:SER:O	1:CW:79:ILE:CB	2.44	0.65
1:BA:248:LEU:O	1:BA:256:ARG:NH2	2.30	0.65
1:BU:100:THR:HG23	1:DH:307:LEU:HG	1.78	0.65
1:CP:91:VAL:HG21	1:CP:112:GLN:HB3	1.79	0.65
3:DV:192:VAL:CG2	4:DW:926:ASN:ND2	2.59	0.65
7:EE:21:ARG:NH2	7:EE:294:ILE:HG13	2.12	0.65
1:BJ:254:GLY:O	1:BJ:255:SER:OG	2.14	0.65
3:DU:143:SER:CB	5:DZ:40:TYR:CE1	2.75	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EE:21:ARG:HH21	7:EE:294:ILE:CD1	2.05	0.65
7:EE:244:ILE:O	7:EE:244:ILE:HG22	1.95	0.65
1:BI:141:GLN:O	1:BI:144:THR:OG1	2.13	0.65
2:DR:23:TYR:HD1	4:DW:853:LYS:O	1.78	0.65
1:AZ:67:SER:OG	1:BD:88:ARG:NH2	2.29	0.65
1:BH:64:VAL:O	1:BT:88:ARG:NH1	2.30	0.65
1:BI:144:THR:CA	1:DH:143:LEU:HG	2.27	0.65
1:CE:182:ASP:OD1	1:CE:183:LYS:N	2.29	0.65
1:CM:213:PHE:CZ	1:CM:218:ILE:HD11	2.32	0.65
1:CS:254:GLY:O	1:CS:257:LYS:NZ	2.29	0.65
1:DB:39:LYS:HD3	7:ED:16:VAL:HG12	1.73	0.65
1:DG:54:LEU:HD13	1:DI:27:SER:OG	1.96	0.65
3:DU:193:GLN:OE1	3:DU:193:GLN:N	2.30	0.65
7:ED:517:ASN:C	7:EE:112:ARG:NH2	2.49	0.65
1:AS:73:GLU:CG	1:CS:3:ASN:O	2.30	0.65
1:BF:307:LEU:O	1:DK:99:THR:OG1	2.15	0.65
1:BI:145:ASN:N	1:DP:19:PHE:HZ	1.91	0.65
1:BJ:162:ARG:NH2	1:BJ:329:GLU:OE2	2.30	0.65
1:CK:218:ILE:O	1:CK:222:THR:HG23	1.96	0.65
1:DB:16:LYS:HE2	3:DV:234:ARG:HD2	1.76	0.65
1:AE:155:LEU:O	1:AE:156:ASN:ND2	2.30	0.64
1:AJ:64:VAL:O	1:AV:88:ARG:NH1	2.30	0.64
1:BU:94:SER:HB3	1:DP:9:SER:N	2.12	0.64
3:DV:26:ARG:HD3	4:DW:967:HIS:HE1	1.63	0.64
7:ED:301:LYS:CB	7:EE:283:ILE:HG22	2.25	0.64
1:AM:7:PHE:CE2	1:CN:108:GLU:HG2	2.32	0.64
1:AQ:190:ASP:O	1:AQ:194:GLY:N	2.30	0.64
1:AT:85:GLN:OE1	1:AT:164:THR:OG1	2.15	0.64
1:BM:222:THR:OG1	1:BM:275:ASP:OD2	2.07	0.64
1:BR:214:ASP:O	1:BR:215:GLU:HB2	1.97	0.64
1:BU:99:THR:OG1	1:DH:307:LEU:HD23	1.97	0.64
1:CD:88:ARG:NH2	1:CD:325:MET:SD	2.69	0.64
4:DW:858:ARG:NH1	4:DW:866:GLN:OE1	2.29	0.64
5:DX:61:ARG:CD	5:DY:63:TYR:CD2	2.75	0.64
7:ED:212:GLU:CD	7:EE:270:GLN:HG3	2.17	0.64
1:AP:144:THR:CB	1:CR:141:GLN:CB	2.76	0.64
1:BI:102:ASN:C	1:DK:13:ASN:C	2.56	0.64
1:CG:98:ASN:OD1	1:CG:99:THR:N	2.29	0.64
1:DP:230:SER:OG	1:DP:339:ALA:O	2.15	0.64
7:ED:21:ARG:NH2	7:ED:294:ILE:HG13	2.12	0.64
7:ED:628:GLU:C	7:EE:627:PHE:HE2	2.00	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:7:PHE:HE1	1:BK:97:ALA:O	1.74	0.64
1:BM:127:ILE:O	1:BM:130:SER:OG	2.08	0.64
1:BR:85:GLN:OE1	1:BR:164:THR:OG1	2.15	0.64
1:CC:48:SER:OG	1:CC:80:LYS:O	2.07	0.64
1:CK:254:GLY:O	1:CK:257:LYS:NZ	2.29	0.64
1:CS:252:THR:OG1	1:CS:255:SER:O	2.09	0.64
1:DB:237:ILE:CG2	1:DB:283:ILE:HD11	2.27	0.64
1:DC:39:LYS:O	7:EE:27:GLY:C	2.36	0.64
1:BZ:29:GLN:OE1	1:BZ:29:GLN:N	2.30	0.64
1:CN:182:ASP:OD1	1:CN:183:LYS:N	2.30	0.64
1:CO:99:THR:O	1:CO:107:ARG:NH1	2.30	0.64
1:DE:315:LEU:HD12	1:DE:323:LYS:HG2	1.79	0.64
1:DJ:275:ASP:OD1	1:DJ:279:GLN:N	2.31	0.64
1:DN:310:PRO:HB2	1:DN:326:ILE:HD11	1.80	0.64
2:DR:23:TYR:CZ	4:DW:853:LYS:CB	2.80	0.64
1:AL:162:ARG:NH2	1:AL:329:GLU:OE2	2.30	0.64
1:AP:98:ASN:ND2	1:CS:7:PHE:CE2	2.66	0.64
1:AS:44:GLN:HG2	1:CS:101:ALA:CA	2.27	0.64
1:BG:213:PHE:HD1	1:BG:214:ASP:H	1.43	0.64
1:CG:157:ASP:O	1:CG:158:THR:OG1	2.12	0.64
1:CZ:199:LYS:NZ	1:CZ:220:ASP:OD2	2.31	0.64
1:DD:211:ILE:O	1:DD:241:HIS:NE2	2.29	0.64
1:DL:296:PHE:O	1:DL:340:SER:OG	2.13	0.64
3:DU:137:TYR:HB3	3:DU:146:ILE:CG2	2.27	0.64
3:DU:172:ILE:O	3:DU:175:ILE:N	2.31	0.64
1:BI:9:SER:O	1:DK:94:SER:O	2.01	0.64
1:BL:127:ILE:O	1:BL:130:SER:OG	2.11	0.64
1:BU:92:ARG:CD	1:DP:5:THR:O	2.46	0.64
1:CI:88:ARG:NH1	1:CM:67:SER:OG	2.31	0.64
7:ED:362:GLY:HA3	7:EE:371:ASN:HD21	1.63	0.64
7:ED:382:TYR:OH	7:EE:396:VAL:HG22	1.97	0.64
1:BI:105:ARG:CG	1:DK:14:GLY:N	2.61	0.64
1:BU:3:ASN:CG	1:DP:115:LYS:HZ1	1.89	0.64
1:BU:12:GLN:NE2	1:DP:100:THR:OG1	2.31	0.64
1:BY:250:GLU:OE2	1:BY:258:ARG:NH2	2.31	0.64
1:CA:102:ASN:ND2	1:CT:14:GLY:O	2.30	0.64
1:CW:220:ASP:OD1	1:CW:221:MET:N	2.31	0.64
1:DB:298:ARG:NH2	1:DB:301:ASP:OD1	2.31	0.64
1:DF:26:LEU:HD12	1:DF:26:LEU:O	1.97	0.64
1:AS:141:GLN:HA	1:CW:141:GLN:HE21	1.63	0.64
1:AS:143:LEU:C	1:CW:143:LEU:HD23	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:320:SER:O	1:DM:153:ALA:HB1	1.95	0.64
1:BN:230:SER:OG	1:BN:339:ALA:O	2.11	0.64
1:BO:190:ASP:O	1:BO:194:GLY:N	2.30	0.64
1:CR:198:VAL:HG22	1:CR:342:VAL:HB	1.80	0.64
7:ED:98:ALA:H	7:EE:572:LYS:HZ1	1.44	0.64
7:ED:376:LYS:HG3	7:EE:397:GLU:HB2	1.79	0.64
1:BC:155:LEU:O	1:BC:156:ASN:ND2	2.31	0.64
1:BS:10:TYR:OH	1:BV:162:ARG:NH2	2.31	0.64
1:DL:123:ASP:OD2	1:DN:61:ASN:ND2	2.31	0.64
5:DX:70:LYS:C	5:DZ:77:LYS:HZ1	2.02	0.64
5:DZ:83:GLN:HA	5:DZ:86:ARG:HD2	1.80	0.64
1:AH:290:PRO:O	1:AH:291:THR:OG1	2.13	0.63
1:AP:144:THR:HG23	1:CR:141:GLN:HE21	1.53	0.63
1:CP:98:ASN:OD1	1:CP:107:ARG:NH1	2.30	0.63
1:DC:143:LEU:HG	3:DV:84:LYS:HZ3	1.61	0.63
2:DS:9:VAL:HG12	2:DS:10:ILE:HG12	1.79	0.63
7:ED:557:GLN:NE2	7:EE:579:LEU:CA	2.55	0.63
1:AS:73:GLU:CG	1:CS:4:PRO:HA	2.28	0.63
1:AS:213:PHE:HE2	1:AS:294:VAL:HG21	1.63	0.63
1:BF:65:GLU:OE2	1:DP:99:THR:HG21	1.98	0.63
1:BI:94:SER:OG	1:DM:152:VAL:HG23	1.97	0.63
1:BI:147:ALA:HB2	1:DH:79:ILE:HB	1.78	0.63
3:DU:153:ILE:HD13	5:DZ:27:ALA:HA	1.76	0.63
3:DV:153:ILE:CD1	5:DX:2:ILE:N	2.61	0.63
3:DV:175:ILE:HD11	5:DY:15:VAL:O	1.98	0.63
7:ED:516:HIS:CB	7:EE:108:GLN:HE22	1.77	0.63
1:AP:105:ARG:HG2	1:CS:15:LYS:CG	2.28	0.63
1:BI:249:GLN:NE2	1:BI:257:LYS:O	2.29	0.63
1:CU:52:ASP:OD1	1:CU:53:ALA:N	2.31	0.63
1:DB:312:ARG:NH1	7:ED:27:GLY:O	2.31	0.63
2:DR:87:LYS:NZ	2:DS:82:PRO:O	2.31	0.63
3:DV:153:ILE:HD11	5:DX:2:ILE:N	2.14	0.63
1:AB:44:GLN:NE2	1:AN:101:ALA:O	2.31	0.63
1:AF:298:ARG:NH1	1:AF:301:ASP:OD1	2.32	0.63
1:AP:105:ARG:CB	1:CS:13:ASN:C	2.33	0.63
1:AT:214:ASP:O	1:AT:215:GLU:HB2	1.97	0.63
1:AW:108:GLU:HB3	1:BK:7:PHE:CE2	2.33	0.63
1:BI:12:GLN:N	1:DK:94:SER:O	2.25	0.63
1:BI:92:ARG:HG3	1:DK:6:LEU:CB	2.23	0.63
1:BI:99:THR:HB	1:DK:10:TYR:CD2	2.34	0.63
1:BI:102:ASN:OD1	1:DK:12:GLN:N	2.18	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DD:199:LYS:NZ	1:DD:220:ASP:OD2	2.31	0.63
1:DL:81:SER:OG	1:DL:134:ARG:NH2	2.31	0.63
7:ED:470:ARG:O	7:EE:117:TYR:OH	2.17	0.63
1:AM:318:ASP:N	1:CV:68:ARG:NE	2.46	0.63
1:AP:108:GLU:CG	1:CS:11:ASP:C	2.65	0.63
1:AZ:44:GLN:NE2	1:BL:101:ALA:O	2.31	0.63
1:CA:105:ARG:NE	1:CA:108:GLU:OE1	2.30	0.63
1:CI:37:THR:OG1	1:CI:304:GLN:NE2	2.32	0.63
1:DD:315:LEU:HD23	1:DD:316:ALA:N	2.14	0.63
1:DO:262:ASN:HB3	1:DQ:267:ILE:HD12	1.81	0.63
1:BW:81:SER:O	1:BW:134:ARG:NH2	2.31	0.63
1:CI:224:GLN:O	1:CI:227:THR:OG1	2.15	0.63
7:ED:97:ASP:OD2	7:EE:575:HIS:NE2	2.29	0.63
1:AD:230:SER:OG	1:AD:339:ALA:O	2.17	0.63
1:AP:108:GLU:HG2	1:CS:12:GLN:N	2.13	0.63
1:BI:92:ARG:CA	1:DK:7:PHE:HB2	2.27	0.63
1:CG:255:SER:OG	1:CK:250:GLU:O	2.16	0.63
1:CQ:198:VAL:HG23	1:CQ:342:VAL:HB	1.81	0.63
1:DB:64:VAL:HG12	1:DF:160:ALA:HB1	1.81	0.63
3:DU:136:PRO:HG2	3:DU:138:TYR:CE2	2.32	0.63
1:AS:213:PHE:CE2	1:AS:294:VAL:HG21	2.34	0.63
1:BO:162:ARG:NH1	1:BO:329:GLU:OE2	2.32	0.63
1:BU:94:SER:HB3	1:DP:8:VAL:CA	2.19	0.63
1:CD:137:VAL:HG23	1:CD:138:LEU:HD12	1.81	0.63
1:CF:65:GLU:OE1	1:CF:65:GLU:N	2.32	0.63
1:CP:275:ASP:OD1	1:CP:279:GLN:N	2.32	0.63
2:DR:20:ASP:C	4:DW:856:VAL:CB	2.65	0.63
5:DX:74:GLU:CG	5:DZ:77:LYS:CE	2.73	0.63
7:ED:98:ALA:H	7:EE:572:LYS:NZ	1.97	0.63
1:AB:83:VAL:O	1:AB:164:THR:HG22	1.99	0.63
1:AM:206:ASN:O	1:AM:349:LYS:N	2.32	0.63
1:AS:78:VAL:HG23	1:CW:147:ALA:O	1.99	0.63
1:BI:144:THR:HG23	1:DH:143:LEU:CG	2.26	0.63
1:BK:206:ASN:O	1:BK:349:LYS:N	2.32	0.63
1:CK:222:THR:HG22	1:CK:281:TYR:HE2	1.63	0.63
1:DB:245:PHE:HZ	1:DB:273:ILE:HD11	1.64	0.63
1:DD:308:ARG:NE	1:DD:329:GLU:OE2	2.32	0.63
1:AW:136:ASP:OD1	1:AW:137:VAL:N	2.32	0.62
1:BG:222:THR:OG1	1:BG:275:ASP:OD1	2.08	0.62
1:CE:308:ARG:NH1	1:CE:329:GLU:OE2	2.32	0.62
1:CP:132:GLN:NE2	1:CT:60:ASN:OD1	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:123:ASP:OD1	1:DC:58:ASP:N	2.32	0.62
2:DR:21:ARG:CD	4:DW:859:LYS:CG	2.71	0.62
3:DV:72:PRO:HD3	5:DY:28:TYR:O	1.99	0.62
3:DV:124:ARG:NH1	5:DZ:28:TYR:HD2	1.88	0.62
3:DV:215:GLN:OE1	5:DY:15:VAL:HG12	1.93	0.62
1:AM:16:LYS:NZ	1:CN:19:PHE:HB3	2.14	0.62
1:AV:252:THR:HG1	1:AV:255:SER:HG	1.40	0.62
1:BD:298:ARG:NH1	1:BD:301:ASP:OD1	2.32	0.62
1:BQ:213:PHE:CE2	1:BQ:294:VAL:HG21	2.34	0.62
1:BQ:213:PHE:HE2	1:BQ:294:VAL:HG21	1.63	0.62
1:CD:105:ARG:NH2	1:CL:50:GLN:OE1	2.32	0.62
1:CD:334:HIS:NE2	1:CD:336:ASN:O	2.31	0.62
3:DV:32:VAL:HG23	3:DV:33:ASN:N	2.14	0.62
1:AM:322:GLU:N	1:CV:67:SER:HB2	1.95	0.62
1:BF:146:SER:N	1:DM:144:THR:OG1	2.33	0.62
1:BI:144:THR:HG23	1:DH:143:LEU:HD23	0.65	0.62
1:BU:92:ARG:HB3	1:DP:6:LEU:N	2.14	0.62
2:DS:17:TYR:HD2	2:DS:30:GLN:HE21	1.45	0.62
1:AB:31:THR:O	1:AB:35:SER:OG	2.09	0.62
1:BU:15:LYS:N	1:DP:102:ASN:OD1	2.32	0.62
1:DB:312:ARG:CZ	7:ED:31:MET:HE3	2.25	0.62
1:DC:143:LEU:HD23	3:DV:84:LYS:NZ	2.15	0.62
1:DE:95:ASP:O	1:DN:308:ARG:NH1	2.32	0.62
7:ED:470:ARG:O	7:EE:117:TYR:HE2	1.81	0.62
1:AF:145:ASN:O	1:AF:145:ASN:ND2	2.32	0.62
1:AL:254:GLY:O	1:AL:255:SER:OG	2.14	0.62
1:AM:171:CYS:HG	1:AM:340:SER:HG	1.32	0.62
1:AP:144:THR:CG2	1:CR:138:LEU:HD22	2.29	0.62
1:AS:80:LYS:HA	1:CW:147:ALA:HA	1.82	0.62
1:CC:33:PHE:O	1:CC:37:THR:HG23	1.98	0.62
1:CS:237:ILE:HG23	1:CS:238:ASN:H	1.65	0.62
1:DD:306:VAL:HG23	1:DD:330:VAL:HG12	1.82	0.62
3:DU:192:VAL:HG23	4:DW:1004:ARG:N	2.15	0.62
3:DV:73:ASP:OD2	5:DY:24:SER:OG	2.17	0.62
1:AP:144:THR:HB	1:CR:141:GLN:HG3	1.75	0.62
1:AQ:162:ARG:NH1	1:AQ:329:GLU:OE2	2.32	0.62
1:AY:254:GLY:O	1:AZ:257:LYS:NZ	2.21	0.62
1:AZ:83:VAL:O	1:AZ:164:THR:HG22	1.99	0.62
1:BD:145:ASN:ND2	1:BD:145:ASN:O	2.32	0.62
1:BU:105:ARG:HG3	1:DP:16:LYS:HD3	1.80	0.62
1:CF:52:ASP:OD1	1:CF:53:ALA:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DE:82:ASN:ND2	1:DE:332:LEU:O	2.33	0.62
3:DU:230:ASN:HD21	7:EE:369:ASN:CG	2.01	0.62
7:ED:628:GLU:OE2	7:EE:627:PHE:CE2	0.76	0.62
1:AD:275:ASP:OD1	1:AD:279:GLN:N	2.33	0.62
1:AU:10:TYR:OH	1:AX:162:ARG:NH2	2.31	0.62
1:CJ:230:SER:OG	1:CJ:339:ALA:O	2.10	0.62
2:DS:51:ILE:HD12	2:DT:44:ASN:HB2	1.82	0.62
3:DU:154:LEU:HD23	3:DU:154:LEU:C	2.20	0.62
7:ED:646:LYS:CA	7:EE:644:GLN:NE2	2.59	0.62
1:AA:222:THR:OG1	1:AA:275:ASP:OD2	2.11	0.62
1:AP:94:SER:O	1:CS:7:PHE:CG	2.53	0.62
1:AP:320:SER:C	1:CZ:65:GLU:O	2.22	0.62
1:BH:69:ALA:HB2	1:BT:90:VAL:HG11	1.82	0.62
1:BI:109:LEU:CD1	1:DK:7:PHE:CE1	2.76	0.62
1:BI:136:ASP:OD1	1:BI:137:VAL:N	2.32	0.62
5:DY:81:LYS:CA	5:DZ:80:PHE:CZ	2.64	0.62
1:AG:111:TYR:OH	1:AM:52:ASP:OD2	2.07	0.62
1:AK:136:ASP:OD1	1:AK:137:VAL:N	2.32	0.62
1:AM:16:LYS:HZ1	1:CN:19:PHE:HB3	1.65	0.62
1:AP:94:SER:O	1:CS:7:PHE:CB	2.48	0.62
1:AS:72:GLY:CA	1:CS:3:ASN:O	2.47	0.62
1:BU:136:ASP:OD1	1:BU:137:VAL:N	2.32	0.62
2:DR:23:TYR:CE1	4:DW:853:LYS:O	2.52	0.62
1:AS:71:ASP:CG	1:CS:4:PRO:CD	2.68	0.62
1:AW:7:PHE:CD1	1:BK:93:VAL:HG13	2.34	0.62
1:CU:40:GLU:OE1	1:CU:333:ARG:NH2	2.33	0.62
1:DA:241:HIS:NE2	1:DA:291:THR:O	2.33	0.62
1:DG:90:VAL:HG11	1:DK:69:ALA:HB2	1.80	0.62
1:DM:272:SER:O	1:DM:273:ILE:HD13	2.00	0.62
1:CT:90:VAL:HG11	1:CX:70:GLU:O	2.00	0.61
1:CV:314:GLU:OE2	1:CV:324:TRP:NE1	2.33	0.61
1:DA:252:THR:HG22	1:DA:253:GLN:H	1.65	0.61
1:DP:52:ASP:OD1	1:DP:53:ALA:N	2.33	0.61
1:AF:85:GLN:HB2	1:AF:164:THR:HG23	1.82	0.61
1:BI:73:GLU:OE2	1:DP:3:ASN:CA	2.44	0.61
1:BI:77:THR:O	1:DP:13:ASN:ND2	2.33	0.61
1:BI:99:THR:CB	1:DK:10:TYR:CD2	2.83	0.61
1:BU:92:ARG:O	1:DP:7:PHE:CA	2.46	0.61
1:BU:92:ARG:CA	1:DP:6:LEU:O	2.48	0.61
1:CH:196:VAL:N	1:CH:224:GLN:OE1	2.32	0.61
1:CK:96:THR:HG22	1:CK:97:ALA:H	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DD:80:LYS:O	1:DD:81:SER:OG	2.15	0.61
1:DJ:30:ASP:OD1	1:DJ:287:ARG:NH1	2.33	0.61
3:DV:73:ASP:CG	5:DY:24:SER:OG	2.38	0.61
1:AA:215:GLU:HB2	1:AA:248:LEU:HD12	1.83	0.61
1:AM:101:ALA:HB3	1:CR:44:GLN:NE2	2.14	0.61
1:AW:27:SER:O	1:AW:29:GLN:NE2	2.33	0.61
1:CL:99:THR:O	1:CL:100:THR:OG1	2.19	0.61
1:CQ:320:SER:OG	1:CT:327:GLU:OE2	2.04	0.61
1:CR:83:VAL:HG21	1:CR:136:ASP:CB	2.30	0.61
1:CY:317:LYS:NZ	1:CY:319:GLY:O	2.33	0.61
1:DP:203:ASN:ND2	1:DP:210:ASN:O	2.33	0.61
5:DX:64:GLN:O	5:DX:67:VAL:HG22	2.01	0.61
1:AN:127:ILE:O	1:AN:130:SER:OG	2.11	0.61
1:AP:94:SER:C	1:CS:7:PHE:HB3	2.20	0.61
1:AP:215:GLU:HG2	1:AP:216:ALA:H	1.65	0.61
1:BB:275:ASP:OD1	1:BB:279:GLN:N	2.33	0.61
1:CI:148:ALA:O	1:CI:152:VAL:HG22	2.00	0.61
1:CL:315:LEU:HD12	1:CL:323:LYS:HG2	1.81	0.61
1:AE:213:PHE:CE1	1:AE:294:VAL:HG21	2.36	0.61
1:AS:69:ALA:HB1	1:CS:5:THR:HG23	1.82	0.61
1:BK:171:CYS:SG	1:BK:340:SER:OG	2.51	0.61
1:BL:203:ASN:O	1:BL:349:LYS:NZ	2.31	0.61
1:BS:82:ASN:ND2	1:BS:164:THR:O	2.33	0.61
1:BU:103:TYR:CD1	1:DP:16:LYS:HB3	2.35	0.61
1:CD:137:VAL:HG23	1:CD:138:LEU:CD1	2.29	0.61
5:DZ:73:ILE:HA	5:DZ:76:LEU:HB2	1.81	0.61
1:AK:143:LEU:N	1:BN:146:SER:N	2.28	0.61
1:AW:99:THR:HA	1:BN:308:ARG:HG3	0.67	0.61
1:AY:215:GLU:HB2	1:AY:248:LEU:HD12	1.83	0.61
1:BI:320:SER:O	1:DM:153:ALA:HB2	1.93	0.61
1:BU:92:ARG:NH1	1:DP:5:THR:CG2	2.54	0.61
1:BW:308:ARG:NH2	1:BW:327:GLU:OE1	2.32	0.61
1:CN:157:ASP:O	1:CN:158:THR:OG1	2.15	0.61
1:DD:287:ARG:NH1	1:DE:226:TYR:O	2.34	0.61
1:DH:226:TYR:O	1:DP:287:ARG:NE	2.27	0.61
3:DV:26:ARG:HH21	3:DV:27:ASP:CG	1.92	0.61
1:CF:320:SER:OG	1:CK:65:GLU:O	2.19	0.61
1:CW:158:THR:O	1:CW:159:HIS:ND1	2.33	0.61
1:DK:92:ARG:HE	1:DM:74:MET:HE1	1.65	0.61
7:ED:93:GLN:OE1	7:EE:574:THR:HG21	1.81	0.61
1:CF:82:ASN:ND2	1:CF:332:LEU:O	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:7:GLN:OE1	3:DU:11:ASN:ND2	2.33	0.61
3:DU:192:VAL:CG2	4:DW:1004:ARG:CA	2.76	0.61
7:ED:516:HIS:HA	7:EE:108:GLN:HE21	1.64	0.61
1:AB:202:GLN:O	1:AB:349:LYS:NZ	2.32	0.61
1:BF:74:MET:HE2	1:DK:6:LEU:HG	1.74	0.61
1:BG:290:PRO:O	1:BG:291:THR:OG1	2.15	0.61
1:BI:322:GLU:C	1:DK:7:PHE:CD2	2.74	0.61
1:CY:8:VAL:HG13	1:CY:9:SER:H	1.65	0.61
1:CZ:176:LEU:CD2	1:CZ:181:VAL:HG13	2.30	0.61
2:DR:95:MET:SD	2:DR:99:MET:HG3	2.40	0.61
2:DS:23:TYR:HB2	2:DS:25:TYR:HD1	1.65	0.61
5:DY:78:GLN:O	5:DY:82:ASP:N	2.34	0.61
5:DY:91:ILE:HB	5:DZ:87:LEU:HD21	1.83	0.61
7:ED:516:HIS:C	7:EE:108:GLN:NE2	2.54	0.61
1:AW:14:GLY:C	1:BK:103:TYR:OH	2.34	0.61
1:BA:222:THR:HG22	1:BA:279:GLN:OE1	2.01	0.61
1:BF:146:SER:OG	1:DM:143:LEU:O	2.19	0.61
1:BY:254:GLY:O	1:BY:257:LYS:NZ	2.33	0.61
1:DI:305:MET:O	1:DI:331:GLY:N	2.34	0.61
3:DU:32:VAL:HG23	3:DU:33:ASN:N	2.16	0.61
3:DV:26:ARG:HD2	3:DV:27:ASP:N	2.15	0.61
5:DX:71:GLN:HA	5:DZ:77:LYS:NZ	2.16	0.61
1:AE:65:GLU:O	1:AX:94:SER:OG	2.18	0.60
1:AI:255:SER:OG	1:AL:250:GLU:OE2	2.18	0.60
1:AJ:69:ALA:HB2	1:AV:90:VAL:HG11	1.82	0.60
1:AN:31:THR:O	1:AN:35:SER:OG	2.12	0.60
1:AQ:203:ASN:HA	1:AQ:214:ASP:HB2	1.83	0.60
1:AR:92:ARG:NH2	1:AU:71:ASP:OD1	2.34	0.60
1:BC:65:GLU:O	1:BV:94:SER:OG	2.18	0.60
1:BI:320:SER:HB2	1:DM:153:ALA:CB	2.28	0.60
1:BU:27:SER:O	1:BU:29:GLN:NE2	2.33	0.60
2:DR:25:TYR:CZ	4:DW:847:TRP:O	2.54	0.60
2:DS:23:TYR:N	4:DW:846:THR:HA	2.15	0.60
3:DV:159:ASP:CG	5:DY:25:ILE:HG12	2.21	0.60
1:AM:215:GLU:HG3	1:AM:248:LEU:CD2	2.31	0.60
1:AM:314:GLU:OE2	1:CR:315:LEU:CD2	2.48	0.60
1:BI:144:THR:C	1:DH:143:LEU:HG	2.21	0.60
1:BI:319:GLY:N	1:DO:68:ARG:HD2	2.15	0.60
1:DB:39:LYS:CE	7:ED:16:VAL:HG13	2.30	0.60
1:DH:24:SER:O	1:DJ:51:THR:OG1	2.19	0.60
3:DV:58:GLU:C	5:DX:2:ILE:HG22	2.22	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:213:PHE:CE1	1:BC:294:VAL:HG21	2.36	0.60
1:BG:89:LYS:NZ	1:BG:123:ASP:OD2	2.34	0.60
1:BI:13:ASN:OD1	1:DM:76:PRO:HG3	2.01	0.60
1:CL:34:VAL:HG21	1:CL:125:GLU:OE1	2.01	0.60
1:CP:44:GLN:N	1:CP:44:GLN:OE1	2.33	0.60
1:CZ:42:ILE:HD12	1:CZ:305:MET:HB3	1.83	0.60
2:DT:19:ARG:HD2	2:DT:21:ARG:H	1.67	0.60
5:DY:84:ASP:HB2	5:DY:87:LEU:HD22	1.82	0.60
1:AK:143:LEU:CD2	1:BN:145:ASN:CG	2.66	0.60
1:AU:82:ASN:ND2	1:AU:164:THR:O	2.33	0.60
1:AZ:51:THR:OG1	1:BD:24:SER:O	2.09	0.60
1:BY:262:ASN:ND2	1:BZ:265:GLN:O	2.32	0.60
1:CB:146:SER:O	1:CB:149:ASP:N	2.30	0.60
1:CE:213:PHE:CD1	1:CE:218:ILE:HD11	2.37	0.60
1:CL:334:HIS:NE2	1:CL:336:ASN:O	2.34	0.60
1:CQ:213:PHE:CE1	1:CQ:345:THR:HG22	2.36	0.60
1:DE:6:LEU:HD21	1:DL:92:ARG:NH2	2.17	0.60
2:DS:19:ARG:HG3	2:DS:21:ARG:HG2	1.83	0.60
5:DX:67:VAL:HG11	5:DZ:70:LYS:HG2	1.83	0.60
1:AB:215:GLU:OE1	1:AB:256:ARG:NH2	2.35	0.60
1:AM:101:ALA:CB	1:CR:44:GLN:NE2	2.63	0.60
1:BE:52:ASP:OD1	1:BE:53:ALA:N	2.35	0.60
1:BK:215:GLU:HG3	1:BK:248:LEU:CD2	2.31	0.60
1:BU:96:THR:OG1	1:DP:9:SER:OG	1.79	0.60
1:CP:213:PHE:CE1	1:CP:294:VAL:HG21	2.36	0.60
1:DI:258:ARG:NH1	1:DI:267:ILE:O	2.34	0.60
7:ED:415:GLY:HA3	7:EE:367:VAL:HG22	1.84	0.60
7:ED:456:LEU:O	7:EE:438:MET:HE2	2.00	0.60
1:AB:85:GLN:HB2	1:AB:164:THR:HG23	1.84	0.60
1:AI:89:LYS:NZ	1:AI:123:ASP:OD2	2.34	0.60
1:AW:19:PHE:CD2	1:BK:16:LYS:HD3	2.33	0.60
1:BD:85:GLN:HB2	1:BD:164:THR:HG23	1.82	0.60
1:BO:203:ASN:HA	1:BO:214:ASP:HB2	1.83	0.60
1:CE:82:ASN:OD1	1:CE:83:VAL:N	2.34	0.60
1:CO:157:ASP:O	1:CO:158:THR:OG1	2.13	0.60
1:DQ:51:THR:O	1:DQ:77:THR:OG1	2.19	0.60
1:DQ:82:ASN:ND2	1:DQ:332:LEU:O	2.34	0.60
2:DT:57:LYS:O	2:DT:60:SER:OG	2.16	0.60
5:DX:85:ALA:HB1	5:DX:86:ARG:HH21	1.61	0.60
5:DX:86:ARG:NH1	5:DZ:87:LEU:HB3	2.16	0.60
5:DY:77:LYS:HA	5:DY:80:PHE:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EC:101:LEU:O	6:EC:103:THR:N	2.35	0.60
1:AT:82:ASN:ND2	1:AT:164:THR:O	2.35	0.60
1:BP:92:ARG:NH2	1:BS:71:ASP:OD1	2.34	0.60
1:BR:82:ASN:ND2	1:BR:164:THR:O	2.35	0.60
1:DG:84:THR:OG1	1:DG:329:GLU:OE2	2.10	0.60
2:DT:28:ALA:HB2	4:DW:857:TRP:CD2	2.37	0.60
4:DW:327:TRP:CZ3	4:DW:358:ALA:HB2	2.37	0.60
1:AN:203:ASN:O	1:AN:349:LYS:NZ	2.31	0.60
1:AW:16:LYS:HD3	1:BK:101:ALA:O	1.98	0.60
1:AW:316:ALA:HB1	1:BN:316:ALA:HB2	1.84	0.60
1:BE:213:PHE:CD1	1:BE:218:ILE:HD11	2.36	0.60
1:BI:13:ASN:CB	1:DM:76:PRO:HG2	2.27	0.60
1:BI:109:LEU:CD1	1:DK:7:PHE:CE2	2.83	0.60
1:BN:215:GLU:HG2	1:BN:216:ALA:H	1.65	0.60
1:BT:252:THR:OG1	1:BT:255:SER:OG	2.14	0.60
1:BU:96:THR:H	1:DH:308:ARG:NH1	2.00	0.60
1:CO:64:VAL:HG12	1:CO:65:GLU:N	2.17	0.60
1:DC:143:LEU:CD2	3:DV:84:LYS:NZ	2.65	0.60
1:DK:249:GLN:OE1	1:DK:258:ARG:NH2	2.34	0.60
1:AM:14:GLY:CA	1:CN:105:ARG:NH1	2.58	0.60
1:AS:78:VAL:C	1:CW:147:ALA:O	2.39	0.60
1:AW:100:THR:CG2	1:BN:45:THR:HA	2.32	0.60
1:BB:230:SER:OG	1:BB:339:ALA:O	2.17	0.60
1:CV:71:ASP:OD1	1:CV:72:GLY:N	2.35	0.60
1:DE:315:LEU:HD11	1:DE:325:MET:SD	2.42	0.60
1:DH:256:ARG:NH1	1:DJ:254:GLY:O	2.34	0.60
1:DP:182:ASP:OD1	1:DP:183:LYS:N	2.35	0.60
1:AP:92:ARG:NH1	1:CS:6:LEU:CA	2.51	0.60
1:DJ:18:SER:OG	1:DL:46:ILE:O	2.20	0.60
7:ED:131:ARG:NH2	7:EE:269:ARG:NH2	2.49	0.60
1:BG:136:ASP:OD1	1:BG:137:VAL:N	2.35	0.59
1:BI:145:ASN:OD1	1:DH:142:TYR:CE2	2.55	0.59
1:BT:27:SER:O	1:BT:29:GLN:NE2	2.35	0.59
1:DB:312:ARG:NH1	7:ED:31:MET:CG	2.65	0.59
1:DD:197:THR:HG21	1:DD:338:TYR:HA	1.83	0.59
5:DY:71:GLN:CA	5:DY:74:GLU:HB3	2.30	0.59
7:ED:244:ILE:O	7:ED:244:ILE:CG2	2.50	0.59
1:AG:213:PHE:CD1	1:AG:218:ILE:HD11	2.36	0.59
1:AP:44:GLN:NE2	1:CN:101:ALA:O	2.34	0.59
1:AS:145:ASN:HB3	1:CW:145:ASN:ND2	2.17	0.59
1:AS:190:ASP:O	1:AS:194:GLY:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:69:ALA:O	1:BU:323:LYS:NZ	2.26	0.59
1:BU:5:THR:CA	1:DH:73:GLU:C	2.40	0.59
1:CE:52:ASP:OD1	1:CE:53:ALA:N	2.35	0.59
1:CQ:70:GLU:OE1	1:CQ:70:GLU:N	2.35	0.59
1:CR:81:SER:O	1:CR:134:ARG:NH2	2.35	0.59
7:ED:430:ARG:CD	7:EE:66:GLU:HG2	2.30	0.59
1:CE:67:SER:OG	1:CU:88:ARG:NH1	2.33	0.59
1:CG:127:ILE:O	1:CG:130:SER:OG	2.16	0.59
1:CQ:82:ASN:OD1	1:CQ:83:VAL:N	2.34	0.59
1:CU:170:LEU:HD23	1:CU:334:HIS:HB2	1.83	0.59
1:DA:336:ASN:ND2	1:DE:24:SER:OG	2.36	0.59
1:DN:101:ALA:O	1:DO:44:GLN:NE2	2.35	0.59
1:DN:287:ARG:NH2	1:DP:226:TYR:O	2.35	0.59
5:DY:42:ALA:HB2	5:DZ:41:TRP:HB3	1.84	0.59
5:DZ:82:ASP:HB3	5:DZ:86:ARG:HH21	1.67	0.59
1:AM:100:THR:HG22	1:CR:44:GLN:HA	1.84	0.59
1:AV:27:SER:O	1:AV:29:GLN:NE2	2.35	0.59
1:AZ:85:GLN:HB2	1:AZ:164:THR:HG23	1.84	0.59
1:BD:252:THR:OG1	1:BD:255:SER:OG	2.20	0.59
1:BI:145:ASN:CB	1:DP:19:PHE:CD2	2.85	0.59
1:BU:100:THR:HG23	1:DH:307:LEU:CG	2.33	0.59
1:CU:322:GLU:N	1:CU:322:GLU:OE1	2.35	0.59
2:DR:95:MET:CE	2:DR:99:MET:HG3	2.32	0.59
3:DV:60:TYR:HD1	5:DX:3:VAL:C	2.04	0.59
5:DX:74:GLU:OE2	5:DZ:81:LYS:NZ	2.35	0.59
1:AM:16:LYS:NZ	1:CN:19:PHE:HD2	1.97	0.59
1:AP:79:ILE:CD1	1:CR:147:ALA:HB3	2.18	0.59
1:AP:144:THR:OG1	1:CR:141:GLN:CG	2.50	0.59
1:BQ:190:ASP:O	1:BQ:194:GLY:N	2.35	0.59
1:BZ:88:ARG:NH1	1:BZ:327:GLU:OE2	2.36	0.59
1:CD:54:LEU:HD12	1:CH:119:GLU:HG3	1.83	0.59
1:CJ:95:ASP:OD1	1:CP:308:ARG:NH2	2.36	0.59
1:CL:250:GLU:OE2	1:CL:258:ARG:NH2	2.35	0.59
1:CQ:215:GLU:OE1	1:CQ:215:GLU:N	2.36	0.59
1:CS:17:LEU:HD22	1:CW:143:LEU:CD2	2.31	0.59
1:DE:85:GLN:HB2	1:DE:164:THR:HG23	1.84	0.59
7:ED:378:LEU:HD21	7:EE:401:GLN:HE21	1.67	0.59
1:AF:252:THR:OG1	1:AF:255:SER:OG	2.20	0.59
1:AP:9:SER:H	1:CS:96:THR:CG2	2.14	0.59
1:AZ:215:GLU:OE1	1:AZ:256:ARG:NH2	2.35	0.59
1:BI:71:ASP:CA	1:DP:5:THR:OG1	2.25	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:322:GLU:CG	1:DK:7:PHE:CD2	2.67	0.59
1:CX:33:PHE:O	1:CX:37:THR:HG23	2.02	0.59
1:DB:237:ILE:HG22	1:DB:283:ILE:HD11	1.84	0.59
3:DU:8:TYR:O	3:DV:37:ASN:ND2	2.36	0.59
5:DY:71:GLN:HA	5:DY:74:GLU:CB	2.32	0.59
1:AI:23:ILE:HG23	1:AO:50:GLN:HB2	1.84	0.59
1:AK:142:TYR:C	1:BN:143:LEU:O	2.41	0.59
1:AP:109:LEU:N	1:CS:7:PHE:CE1	2.70	0.59
1:BK:162:ARG:NH1	1:BK:329:GLU:OE2	2.36	0.59
1:BU:105:ARG:NE	1:DP:14:GLY:O	2.34	0.59
1:BY:136:ASP:OD1	1:BY:137:VAL:N	2.35	0.59
1:AC:222:THR:HG22	1:AC:279:GLN:OE1	2.01	0.59
1:AE:84:THR:OG1	1:AE:162:ARG:NH1	2.36	0.59
1:AW:4:PRO:HD2	1:BN:75:LYS:O	2.01	0.59
1:BD:250:GLU:OE1	1:BD:258:ARG:NH2	2.35	0.59
1:BI:108:GLU:N	1:DK:11:ASP:OD1	2.34	0.59
1:BT:214:ASP:HB3	1:BT:217:ASP:HB2	1.83	0.59
1:DL:136:ASP:OD1	1:DL:137:VAL:N	2.36	0.59
1:DO:197:THR:HG23	1:DO:198:VAL:HG23	1.84	0.59
5:DY:81:LYS:CA	5:DY:82:ASP:N	2.66	0.59
7:ED:20:ARG:CZ	7:EE:279:ASP:HB2	2.29	0.59
1:AA:34:VAL:HG23	1:AA:125:GLU:OE1	2.03	0.59
1:AK:145:ASN:HB3	1:BK:17:LEU:HD13	1.84	0.59
1:BG:255:SER:OG	1:BJ:250:GLU:OE2	2.18	0.59
1:BU:94:SER:HB3	1:DP:8:VAL:HA	1.64	0.59
1:BW:82:ASN:ND2	1:BW:332:LEU:O	2.36	0.59
1:DF:192:ASP:OD1	1:DF:193:THR:N	2.35	0.59
1:DL:275:ASP:OD1	1:DL:279:GLN:N	2.36	0.59
1:AG:52:ASP:OD1	1:AG:53:ALA:N	2.34	0.59
1:AP:8:VAL:CG1	1:CS:94:SER:CB	2.79	0.59
1:AP:139:ALA:C	1:CR:144:THR:HG23	2.22	0.59
1:AS:74:MET:CB	1:CW:154:GLY:O	1.64	0.59
1:BC:84:THR:OG1	1:BC:162:ARG:NH1	2.36	0.59
1:BI:93:VAL:HG12	1:DK:6:LEU:HD13	1.84	0.59
1:BI:99:THR:HG22	1:DM:45:THR:CG2	2.32	0.59
1:BU:6:LEU:HB3	1:DH:74:MET:HE1	1.85	0.59
1:CA:190:ASP:O	1:CA:194:GLY:N	2.35	0.59
1:CY:206:ASN:O	1:CY:349:LYS:N	2.34	0.59
1:DC:143:LEU:HD23	3:DV:84:LYS:HZ1	1.67	0.59
1:DD:122:ARG:NH1	1:DE:55:ALA:O	2.36	0.59
7:ED:410:HIS:CD2	7:EE:373:GLY:C	2.52	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ED:557:GLN:OE1	7:EE:578:LEU:CA	2.51	0.59
1:AY:34:VAL:HG23	1:AY:125:GLU:OE1	2.02	0.58
1:BI:103:TYR:OH	1:DM:142:TYR:CA	2.51	0.58
1:BI:146:SER:N	1:DH:143:LEU:CD1	2.65	0.58
1:BU:36:MET:O	1:BU:299:SER:OG	2.21	0.58
1:BU:318:ASP:C	1:DH:315:LEU:HD23	2.24	0.58
1:CD:298:ARG:O	1:CD:299:SER:OG	2.15	0.58
1:CW:25:VAL:HG12	1:CW:25:VAL:O	2.02	0.58
1:DI:254:GLY:O	1:DI:257:LYS:NZ	2.35	0.58
3:DU:29:ASP:HA	3:DU:32:VAL:HG22	1.85	0.58
3:DV:173:LEU:HD11	3:DV:180:LEU:HD12	1.85	0.58
7:ED:482:ARG:HH11	7:EE:112:ARG:CA	2.07	0.58
7:ED:518:LEU:N	7:EE:112:ARG:HH22	1.81	0.58
1:AP:105:ARG:HG2	1:CS:15:LYS:HG2	1.85	0.58
1:AS:73:GLU:HA	1:CS:3:ASN:OD1	2.04	0.58
1:BI:145:ASN:N	1:DP:19:PHE:CE2	2.66	0.58
1:BI:318:ASP:C	1:DO:68:ARG:HD2	2.21	0.58
1:BJ:186:ASN:OD1	1:BJ:200:VAL:HG23	2.03	0.58
1:DF:167:PHE:HA	1:DF:170:LEU:HA	1.86	0.58
1:DL:303:THR:OG1	1:DL:333:ARG:NH1	2.35	0.58
5:DX:63:TYR:HB2	5:DZ:70:LYS:HZ3	1.68	0.58
5:DX:74:GLU:HG3	5:DZ:77:LYS:HE2	1.83	0.58
1:AP:16:LYS:CE	1:CS:103:TYR:HB2	2.33	0.58
1:AV:214:ASP:HB3	1:AV:217:ASP:HB2	1.83	0.58
1:BE:132:GLN:HA	1:BE:180:VAL:HG12	1.85	0.58
1:BI:101:ALA:O	1:DK:15:LYS:HA	2.04	0.58
1:CD:237:ILE:HD13	1:CD:294:VAL:HG22	1.85	0.58
1:CP:163:LYS:NZ	1:CP:179:GLY:O	2.30	0.58
6:EC:90:ALA:O	6:EC:91:ILE:C	2.41	0.58
1:AF:250:GLU:OE1	1:AF:258:ARG:NH2	2.35	0.58
1:AW:100:THR:CG2	1:BN:84:THR:OG1	2.52	0.58
1:AZ:202:GLN:O	1:AZ:349:LYS:NZ	2.32	0.58
1:BI:95:ASP:C	1:DK:10:TYR:CG	2.66	0.58
1:CU:82:ASN:OD1	1:CU:83:VAL:N	2.37	0.58
1:CZ:304:GLN:O	1:CZ:306:VAL:HG13	2.03	0.58
4:DW:311:LEU:HD11	4:DW:372:ARG:HH21	1.54	0.58
5:DX:60:GLU:CD	5:DX:61:ARG:HH12	2.05	0.58
1:AJ:214:ASP:HB3	1:AJ:217:ASP:OD2	2.04	0.58
1:AP:4:PRO:CD	1:CW:74:MET:SD	2.91	0.58
1:AY:127:ILE:O	1:AY:130:SER:OG	2.12	0.58
1:BG:23:ILE:HG23	1:BM:50:GLN:HB2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:298:ARG:O	1:BG:299:SER:OG	2.17	0.58
1:BI:144:THR:C	1:DP:17:LEU:CD1	2.71	0.58
1:CP:111:TYR:OH	1:CT:52:ASP:OD2	2.20	0.58
1:DL:25:VAL:O	1:DL:25:VAL:HG23	2.04	0.58
7:ED:32:ALA:HB1	7:EE:269:ARG:CB	2.28	0.58
1:AB:136:ASP:OD1	1:AB:137:VAL:N	2.36	0.58
1:AP:94:SER:HB3	1:CS:8:VAL:CA	2.33	0.58
1:AS:144:THR:C	1:CW:143:LEU:O	2.31	0.58
1:BR:162:ARG:NH1	1:BR:329:GLU:OE2	2.37	0.58
1:CA:78:VAL:O	1:CA:78:VAL:HG12	2.03	0.58
1:CD:246:ALA:O	1:CD:258:ARG:NH1	2.36	0.58
1:CH:250:GLU:OE2	1:CH:258:ARG:NH2	2.36	0.58
1:CM:157:ASP:O	1:CM:158:THR:OG1	2.16	0.58
1:CP:5:THR:OG1	1:CT:156:ASN:ND2	2.37	0.58
1:DB:16:LYS:HG2	3:DV:234:ARG:NE	2.07	0.58
1:DO:45:THR:OG1	1:DO:162:ARG:NH2	2.37	0.58
1:DQ:132:GLN:OE1	1:DQ:163:LYS:NZ	2.25	0.58
2:DR:39:GLN:NE2	2:DS:11:THR:O	2.37	0.58
7:ED:448:ASP:OD1	7:EE:441:ASN:OD1	2.22	0.58
1:AD:306:VAL:HG12	1:AD:330:VAL:HG12	1.86	0.58
1:AI:136:ASP:OD1	1:AI:137:VAL:N	2.35	0.58
1:AM:101:ALA:C	1:CR:44:GLN:NE2	2.56	0.58
1:AM:162:ARG:NH1	1:AM:329:GLU:OE2	2.36	0.58
1:AP:107:ARG:N	1:CS:13:ASN:OD1	2.35	0.58
1:AV:306:VAL:HG13	1:AV:330:VAL:HG12	1.86	0.58
1:AW:108:GLU:CD	1:BK:12:GLN:HG2	2.18	0.58
1:CM:70:GLU:OE1	1:CM:70:GLU:N	2.37	0.58
1:DA:131:GLY:HA3	1:DA:180:VAL:HG22	1.84	0.58
1:DD:262:ASN:C	1:DE:267:ILE:HD11	2.23	0.58
1:DE:144:THR:O	1:DE:145:ASN:ND2	2.37	0.58
1:DJ:122:ARG:NH1	1:DL:55:ALA:O	2.35	0.58
1:DO:89:LYS:HG2	1:DO:120:ILE:HD13	1.86	0.58
7:ED:362:GLY:HA3	7:EE:371:ASN:ND2	2.19	0.58
1:AS:144:THR:OG1	1:CW:142:TYR:O	2.22	0.58
1:AZ:136:ASP:OD1	1:AZ:137:VAL:N	2.36	0.58
1:BZ:30:ASP:O	1:BZ:31:THR:OG1	2.19	0.58
1:CA:44:GLN:HG2	1:CA:45:THR:H	1.68	0.58
1:CZ:218:ILE:O	1:CZ:222:THR:HG23	2.04	0.58
1:DM:88:ARG:NH1	1:DO:65:GLU:O	2.37	0.58
2:DR:73:GLY:O	2:DS:78:LYS:NZ	2.36	0.58
2:DT:23:TYR:O	2:DT:25:TYR:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DY:67:VAL:HA	5:DY:70:LYS:CB	2.33	0.58
7:ED:379:VAL:HG21	7:EE:398:MET:HG3	0.58	0.58
1:BI:74:MET:HG3	1:DP:4:PRO:HB2	1.86	0.58
1:BI:92:ARG:HD2	1:DK:6:LEU:HD23	1.61	0.58
1:BI:146:SER:N	1:DH:143:LEU:HD11	2.19	0.58
1:CE:237:ILE:HG13	1:CE:285:VAL:HG12	1.85	0.58
3:DU:131:ILE:HG22	3:DU:132:GLU:H	1.69	0.58
1:AM:93:VAL:O	1:CN:8:VAL:HG11	2.03	0.58
1:AP:8:VAL:HB	1:CS:96:THR:HG21	0.58	0.58
1:AP:8:VAL:HG12	1:CS:94:SER:HB2	1.86	0.58
1:BI:103:TYR:OH	1:DM:143:LEU:N	2.37	0.58
1:BN:240:ALA:O	1:BN:243:LYS:NZ	2.36	0.58
1:BX:261:GLU:OE1	1:BX:262:ASN:N	2.37	0.58
1:CM:8:VAL:O	1:CM:9:SER:OG	2.19	0.58
1:CN:250:GLU:OE1	1:CN:258:ARG:NH2	2.35	0.58
1:CO:52:ASP:OD1	1:CO:53:ALA:N	2.37	0.58
1:DC:86:ILE:HD11	1:DD:63:HIS:O	2.04	0.58
1:DC:145:ASN:ND2	3:DV:85:ASP:CG	2.57	0.58
1:DH:128:LEU:HD22	1:DH:332:LEU:HD13	1.85	0.58
3:DV:78:GLN:OE1	3:DV:155:SER:OG	2.20	0.58
7:ED:430:ARG:CG	7:EE:66:GLU:CD	2.69	0.58
1:AP:108:GLU:O	1:CS:7:PHE:HE1	1.84	0.57
1:AS:45:THR:CG2	1:CS:99:THR:OG1	2.52	0.57
1:AW:7:PHE:HB2	1:BK:93:VAL:CG2	2.27	0.57
1:BU:92:ARG:HG2	1:DP:6:LEU:C	2.24	0.57
1:CL:30:ASP:O	1:CL:31:THR:OG1	2.19	0.57
1:CL:249:GLN:OE1	1:CL:258:ARG:NE	2.37	0.57
1:BU:92:ARG:CG	1:DP:6:LEU:O	2.52	0.57
1:BU:99:THR:HG1	1:DH:308:ARG:HA	1.63	0.57
1:BV:60:ASN:O	1:BV:60:ASN:ND2	2.37	0.57
1:CC:159:HIS:ND1	1:CC:159:HIS:O	2.37	0.57
1:DG:214:ASP:OD2	1:DG:244:ILE:HG22	2.04	0.57
1:DH:208:THR:O	1:DH:208:THR:HG22	2.05	0.57
2:DT:22:ASP:HA	4:DW:838:ILE:HG12	1.85	0.57
3:DU:26:ARG:H	4:DW:973:ASN:CG	2.03	0.57
5:DX:49:PHE:O	5:DX:50:GLY:C	2.41	0.57
1:AR:250:GLU:OE2	1:AR:258:ARG:NH2	2.36	0.57
1:CE:303:THR:OG1	1:CE:333:ARG:NH1	2.37	0.57
1:CE:329:GLU:OE2	1:CY:96:THR:OG1	2.16	0.57
1:CI:235:ILE:HG23	1:CI:296:PHE:CE1	2.39	0.57
1:CI:275:ASP:OD1	1:CI:279:GLN:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CW:83:VAL:HG22	1:CW:84:THR:H	1.70	0.57
3:DV:128:TYR:HB3	3:DV:129:PRO:HD3	1.87	0.57
7:ED:233:ASP:O	7:ED:236:ALA:HB3	2.04	0.57
7:ED:653:ALA:HA	7:ED:656:LEU:HD12	1.85	0.57
7:EE:233:ASP:O	7:EE:236:ALA:HB3	2.04	0.57
7:EE:653:ALA:HA	7:EE:656:LEU:HD12	1.85	0.57
1:AG:132:GLN:HA	1:AG:180:VAL:HG12	1.84	0.57
1:AL:186:ASN:OD1	1:AL:200:VAL:HG23	2.03	0.57
1:AP:240:ALA:O	1:AP:243:LYS:NZ	2.36	0.57
1:AT:162:ARG:NH1	1:AT:329:GLU:OE2	2.37	0.57
1:BH:214:ASP:HB3	1:BH:217:ASP:OD2	2.04	0.57
1:DC:39:LYS:O	7:EE:27:GLY:O	2.21	0.57
1:DE:71:ASP:OD2	1:DO:5:THR:HG21	2.03	0.57
3:DV:222:SER:O	3:DV:224:SER:N	2.37	0.57
5:DX:85:ALA:CB	5:DZ:88:MET:HE3	2.17	0.57
6:EA:90:ALA:O	6:EA:91:ILE:C	2.42	0.57
7:ED:625:THR:HG23	7:EE:624:ARG:NH2	1.93	0.57
1:AN:33:PHE:CE1	1:AN:37:THR:HG21	2.40	0.57
1:AN:105:ARG:NH2	1:AN:108:GLU:OE2	2.38	0.57
1:BI:96:THR:N	1:DM:152:VAL:HG21	2.19	0.57
1:BL:31:THR:O	1:BL:35:SER:OG	2.12	0.57
1:DH:198:VAL:HG12	1:DH:342:VAL:HG22	1.87	0.57
1:DQ:89:LYS:NZ	1:DQ:123:ASP:OD2	2.27	0.57
3:DV:145:LEU:CB	5:DX:4:TYR:CZ	2.84	0.57
5:DY:63:TYR:O	5:DY:67:VAL:HG22	2.05	0.57
5:DY:81:LYS:C	5:DY:85:ALA:H	2.07	0.57
7:ED:552:LEU:HD23	7:EE:579:LEU:N	2.08	0.57
1:AW:103:TYR:N	1:BN:44:GLN:HG2	1.95	0.57
1:BW:265:GLN:OE1	1:BW:266:PHE:CE2	2.58	0.57
1:BX:26:LEU:HD11	1:CC:229:GLY:O	2.05	0.57
1:DH:116:LYS:O	1:DH:120:ILE:HD12	2.05	0.57
1:DN:298:ARG:NE	1:DN:301:ASP:OD1	2.37	0.57
4:DW:327:TRP:CH2	4:DW:343:GLN:NE2	2.73	0.57
7:ED:94:GLN:N	7:ED:94:GLN:OE1	2.37	0.57
1:AB:51:THR:OG1	1:AF:24:SER:O	2.09	0.57
1:AL:54:LEU:HD12	1:AX:27:SER:HB2	1.87	0.57
1:AM:96:THR:H	1:CN:8:VAL:N	2.03	0.57
1:AP:4:PRO:O	1:CS:92:ARG:NE	2.37	0.57
1:AP:94:SER:OG	1:CZ:65:GLU:HB3	2.04	0.57
1:AS:222:THR:HB	1:AS:279:GLN:OE1	2.04	0.57
1:BJ:48:SER:OG	1:BJ:143:LEU:HD11	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BL:33:PHE:CE1	1:BL:37:THR:HG21	2.40	0.57
1:CA:224:GLN:O	1:CA:227:THR:OG1	2.22	0.57
1:CL:157:ASP:OD1	1:CZ:321:TYR:OH	2.21	0.57
1:DJ:231:GLU:OE2	1:DJ:298:ARG:NE	2.37	0.57
3:DU:138:TYR:CE1	3:DU:145:LEU:CD2	2.86	0.57
1:AL:74:MET:SD	1:AX:91:VAL:HG23	2.45	0.57
1:AM:319:GLY:O	1:CV:68:ARG:NE	2.35	0.57
1:AV:98:ASN:ND2	1:AV:98:ASN:O	2.38	0.57
1:AX:196:VAL:N	1:AX:224:GLN:OE1	2.38	0.57
1:BL:105:ARG:NH2	1:BL:108:GLU:OE2	2.38	0.57
1:BP:250:GLU:OE2	1:BP:258:ARG:NH2	2.36	0.57
1:BU:319:GLY:HA2	1:DH:313:THR:HG21	1.82	0.57
1:CK:132:GLN:NE2	1:CK:164:THR:O	2.38	0.57
1:CL:308:ARG:NH2	1:CL:329:GLU:OE1	2.38	0.57
1:CQ:314:GLU:OE1	1:CQ:324:TRP:NE1	2.38	0.57
1:DD:58:ASP:O	1:DD:61:ASN:ND2	2.37	0.57
1:DK:52:ASP:OD1	1:DK:53:ALA:N	2.37	0.57
4:DW:215:LEU:CD2	4:DW:232:ALA:HB2	2.35	0.57
7:ED:305:SER:OG	7:EE:284:ALA:CA	2.52	0.57
1:AH:237:ILE:CD1	1:AH:294:VAL:HG22	2.35	0.57
1:AK:308:ARG:NH2	1:BK:96:THR:HG1	2.00	0.57
1:AP:215:GLU:HG2	1:AP:216:ALA:N	2.20	0.57
1:AP:320:SER:HA	1:CZ:65:GLU:CD	2.10	0.57
1:AW:7:PHE:CG	1:BK:93:VAL:CG1	2.77	0.57
1:BF:237:ILE:CD1	1:BF:294:VAL:HG22	2.35	0.57
1:BN:215:GLU:HG2	1:BN:216:ALA:N	2.20	0.57
1:BQ:222:THR:HB	1:BQ:279:GLN:OE1	2.04	0.57
1:CB:240:ALA:O	1:CB:243:LYS:NZ	2.37	0.57
1:CE:157:ASP:O	1:CE:158:THR:OG1	2.15	0.57
1:CY:308:ARG:NH1	1:CY:327:GLU:OE1	2.37	0.57
1:CZ:222:THR:HG22	1:CZ:281:TYR:HE2	1.69	0.57
1:DM:65:GLU:N	1:DM:65:GLU:OE1	2.38	0.57
1:BF:40:GLU:OE1	1:BF:333:ARG:NH1	2.38	0.57
1:BI:11:ASP:N	1:DK:94:SER:O	2.38	0.57
1:BI:320:SER:OG	1:DO:64:VAL:HB	2.05	0.57
1:CO:253:GLN:OE1	1:CO:253:GLN:N	2.37	0.57
1:CW:122:ARG:NH2	1:CZ:58:ASP:OD1	2.37	0.57
1:DD:192:ASP:OD1	1:DD:193:THR:N	2.37	0.57
1:DG:334:HIS:NE2	1:DG:336:ASN:O	2.38	0.57
1:DP:8:VAL:O	1:DP:8:VAL:HG13	2.05	0.57
5:DX:74:GLU:HB2	5:DZ:77:LYS:CE	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EA:164:SER:O	6:EA:166:TYR:N	2.38	0.57
7:EE:94:GLN:OE1	7:EE:94:GLN:N	2.37	0.57
1:AM:100:THR:CB	1:CN:11:ASP:OD1	2.54	0.56
1:AP:12:GLN:CA	1:CS:105:ARG:NH1	2.68	0.56
1:AP:150:PRO:HD3	1:CR:143:LEU:HB2	1.87	0.56
1:AW:15:LYS:N	1:BK:103:TYR:CZ	2.73	0.56
1:BB:306:VAL:HG12	1:BB:330:VAL:HG12	1.86	0.56
1:BI:144:THR:HA	1:DH:143:LEU:HB3	1.87	0.56
1:BZ:105:ARG:NH2	1:BZ:108:GLU:OE2	2.38	0.56
1:CZ:222:THR:HG22	1:CZ:281:TYR:CE2	2.39	0.56
1:DC:143:LEU:HG	3:DV:84:LYS:CE	2.35	0.56
1:DO:87:LEU:HB3	1:DO:120:ILE:HD11	1.86	0.56
1:DO:237:ILE:HG21	1:DO:285:VAL:HG22	1.87	0.56
3:DU:131:ILE:HG22	3:DU:132:GLU:N	2.19	0.56
1:AA:127:ILE:O	1:AA:130:SER:OG	2.12	0.56
1:AL:48:SER:OG	1:AL:143:LEU:HD11	2.05	0.56
1:AP:7:PHE:C	1:CS:92:ARG:NH2	2.58	0.56
1:AW:36:MET:O	1:AW:299:SER:OG	2.21	0.56
1:CL:208:THR:O	1:CL:208:THR:HG22	2.06	0.56
1:DA:66:GLY:O	1:DE:88:ARG:NH1	2.38	0.56
1:DA:158:THR:HG23	1:DA:158:THR:O	2.05	0.56
3:DV:44:LYS:HZ3	5:DX:14:ASN:CG	2.06	0.56
5:DX:51:THR:O	5:DX:52:ILE:C	2.43	0.56
5:DX:63:TYR:CB	5:DZ:70:LYS:HZ3	2.18	0.56
1:AG:241:HIS:NE2	1:AG:291:THR:O	2.37	0.56
1:AI:290:PRO:O	1:AI:291:THR:OG1	2.15	0.56
1:AM:14:GLY:HA3	1:CN:105:ARG:HH11	1.70	0.56
1:AM:103:TYR:HB3	1:CN:16:LYS:HE3	1.86	0.56
1:BI:314:GLU:HG3	1:DM:316:ALA:CB	2.35	0.56
1:BJ:74:MET:SD	1:BV:91:VAL:HG23	2.45	0.56
1:BT:306:VAL:HG13	1:BT:330:VAL:HG12	1.86	0.56
1:BU:104:GLY:HA3	1:DP:16:LYS:HE2	1.87	0.56
1:BX:95:ASP:O	1:BX:96:THR:OG1	2.16	0.56
1:CB:307:LEU:HD23	1:CB:329:GLU:CD	2.26	0.56
1:CT:6:LEU:O	1:CT:8:VAL:HG13	2.05	0.56
1:CY:25:VAL:O	1:CY:25:VAL:HG13	2.06	0.56
1:DB:312:ARG:NH2	7:ED:27:GLY:CA	2.68	0.56
1:DD:237:ILE:HG21	1:DD:285:VAL:HG22	1.87	0.56
1:DI:168:GLN:NE2	1:DI:295:TYR:OH	2.38	0.56
3:DU:174:THR:HG21	5:DX:22:GLU:H	1.69	0.56
4:DW:333:ASN:OD1	4:DW:349:LEU:HD11	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DX:47:SER:O	5:DX:51:THR:N	2.38	0.56
6:EA:102:SER:O	6:EA:104:GLU:N	2.38	0.56
1:AK:69:ALA:O	1:AW:323:LYS:NZ	2.26	0.56
1:AS:79:ILE:O	1:CW:147:ALA:N	2.39	0.56
1:BB:88:ARG:NH2	1:BC:67:SER:OG	2.37	0.56
1:DC:91:VAL:HG12	1:DC:324:TRP:O	2.06	0.56
1:AI:298:ARG:O	1:AI:299:SER:OG	2.17	0.56
1:BI:92:ARG:NE	1:DK:6:LEU:CG	2.67	0.56
1:BI:96:THR:N	1:DM:152:VAL:CG2	2.68	0.56
1:BJ:54:LEU:HD12	1:BV:27:SER:HB2	1.87	0.56
1:BL:39:LYS:HD3	1:BL:306:VAL:HG21	1.87	0.56
1:BN:171:CYS:SG	1:BN:340:SER:OG	2.53	0.56
1:BX:49:TRP:NE1	1:BX:334:HIS:O	2.38	0.56
1:CK:114:GLU:OE2	1:CK:312:ARG:NH2	2.39	0.56
1:DD:23:ILE:HD11	1:DE:52:ASP:HB2	1.87	0.56
1:DE:52:ASP:OD1	1:DE:53:ALA:N	2.39	0.56
1:DF:258:ARG:NH1	1:DF:267:ILE:O	2.38	0.56
2:DT:17:TYR:C	2:DT:19:ARG:H	2.08	0.56
3:DU:230:ASN:ND2	7:EE:369:ASN:HD21	2.03	0.56
1:AE:220:ASP:OD1	1:AE:221:MET:N	2.39	0.56
1:BF:215:GLU:O	1:BF:215:GLU:HG2	2.06	0.56
1:BU:92:ARG:NE	1:DP:6:LEU:N	2.52	0.56
1:CD:290:PRO:O	1:CD:291:THR:HG22	2.05	0.56
1:CI:263:THR:O	1:CI:263:THR:HG22	2.06	0.56
1:CW:83:VAL:O	1:CW:164:THR:HG22	2.06	0.56
1:CY:246:ALA:O	1:CY:258:ARG:NH1	2.36	0.56
1:DB:59:GLY:O	1:DB:61:ASN:ND2	2.39	0.56
2:DR:50:ASP:HB3	2:DT:60:SER:HB3	1.88	0.56
3:DV:124:ARG:NH1	5:DZ:28:TYR:HA	2.19	0.56
1:AD:88:ARG:NH2	1:AE:67:SER:OG	2.37	0.56
1:AL:9:SER:OG	1:AO:65:GLU:OE1	2.23	0.56
1:AM:92:ARG:HH11	1:CR:156:ASN:CG	2.05	0.56
1:AM:103:TYR:CD2	1:CN:16:LYS:CD	2.81	0.56
1:AW:99:THR:N	1:BN:308:ARG:HG3	2.18	0.56
1:AX:60:ASN:ND2	1:AX:60:ASN:O	2.37	0.56
1:BU:5:THR:N	1:DH:74:MET:N	2.44	0.56
1:BU:5:THR:CB	1:DH:73:GLU:O	2.17	0.56
1:BU:92:ARG:HG2	1:DP:6:LEU:O	2.05	0.56
1:BW:252:THR:HG23	1:BW:252:THR:O	2.05	0.56
1:DB:312:ARG:HH11	7:ED:31:MET:CG	2.16	0.56
1:DE:33:PHE:O	1:DE:37:THR:OG1	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:97:ALA:HB2	1:CN:9:SER:C	2.25	0.56
1:AY:290:PRO:O	1:AY:291:THR:HG22	2.06	0.56
1:BI:96:THR:OG1	1:DM:152:VAL:CB	2.54	0.56
1:CR:86:ILE:HG21	1:CR:88:ARG:NH2	2.20	0.56
1:CU:8:VAL:HG13	1:CU:8:VAL:O	2.06	0.56
1:CV:202:GLN:N	1:CV:217:ASP:OD2	2.39	0.56
1:DB:39:LYS:HG2	7:ED:16:VAL:CG1	2.27	0.56
1:DK:82:ASN:ND2	1:DK:332:LEU:O	2.39	0.56
3:DV:72:PRO:HG2	5:DY:28:TYR:CE2	2.41	0.56
5:DX:60:GLU:CD	5:DX:61:ARG:NH1	2.58	0.56
1:AA:290:PRO:O	1:AA:291:THR:HG22	2.06	0.56
1:AH:215:GLU:HG2	1:AH:215:GLU:O	2.06	0.56
1:AP:79:ILE:CD1	1:CR:147:ALA:HB2	1.96	0.56
1:CE:8:VAL:HG13	1:CE:8:VAL:O	2.06	0.56
7:ED:467:MET:HG3	7:EE:76:ILE:HD13	1.87	0.56
1:AM:100:THR:HA	1:CR:43:ASN:O	2.05	0.56
1:AS:142:TYR:CG	1:CW:144:THR:O	2.58	0.56
1:AW:105:ARG:HD3	1:BK:15:LYS:CG	2.10	0.56
1:BA:190:ASP:OD1	1:BA:192:ASP:N	2.39	0.56
1:BD:253:GLN:N	1:BD:253:GLN:OE1	2.38	0.56
1:BE:241:HIS:NE2	1:BE:291:THR:O	2.37	0.56
1:BE:260:PHE:O	1:BE:263:THR:OG1	2.21	0.56
1:BI:94:SER:OG	1:DM:152:VAL:CG2	2.54	0.56
1:BJ:9:SER:OG	1:BM:65:GLU:OE1	2.23	0.56
1:BS:103:TYR:O	1:BV:50:GLN:NE2	2.39	0.56
1:BU:8:VAL:CB	1:DP:95:ASP:HB3	2.36	0.56
1:CF:153:ALA:O	1:CF:158:THR:HG21	2.05	0.56
1:CM:192:ASP:OD1	1:CM:193:THR:N	2.39	0.56
1:DB:312:ARG:NH2	7:ED:27:GLY:HA3	2.20	0.56
1:DD:215:GLU:O	1:DD:217:ASP:N	2.38	0.56
1:DE:144:THR:HG22	1:DE:145:ASN:HD22	1.70	0.56
6:EC:101:LEU:O	6:EC:103:THR:CA	2.54	0.56
7:EE:21:ARG:HH22	7:EE:294:ILE:HG13	1.63	0.56
1:AP:12:GLN:HE22	1:CS:102:ASN:HD22	1.42	0.55
1:AW:100:THR:CG2	1:BN:84:THR:CB	2.84	0.55
1:BG:127:ILE:O	1:BG:130:SER:OG	2.22	0.55
1:BT:98:ASN:O	1:BT:98:ASN:ND2	2.38	0.55
1:BU:7:PHE:CE1	1:DP:97:ALA:HB3	2.41	0.55
1:BU:11:ASP:N	1:DP:96:THR:CB	2.30	0.55
1:BW:147:ALA:O	1:BW:149:ASP:N	2.39	0.55
1:CQ:157:ASP:O	1:CQ:158:THR:OG1	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CS:238:ASN:ND2	1:CS:239:PRO:O	2.36	0.55
1:CX:83:VAL:O	1:CX:164:THR:HG22	2.06	0.55
1:DJ:196:VAL:HG23	1:DJ:196:VAL:O	2.06	0.55
1:DQ:210:ASN:OD1	1:DQ:211:ILE:N	2.39	0.55
3:DV:35:ILE:HA	3:DV:38:PHE:HD2	1.71	0.55
3:DV:71:PRO:HB3	5:DX:5:ASN:ND2	2.21	0.55
3:DV:73:ASP:CB	5:DY:24:SER:HG	2.17	0.55
5:DY:81:LYS:N	5:DY:82:ASP:N	2.54	0.55
1:AN:39:LYS:HD3	1:AN:306:VAL:HG21	1.87	0.55
1:AP:318:ASP:O	1:CZ:68:ARG:HA	2.06	0.55
1:BN:125:GLU:OE2	1:BN:286:ASN:ND2	2.39	0.55
1:CG:267:ILE:HD12	1:CK:262:ASN:HB3	1.88	0.55
1:CK:192:ASP:OD1	1:CK:193:THR:N	2.39	0.55
1:DB:21:ASN:OD1	7:EE:38:ARG:NH1	2.34	0.55
1:DO:138:LEU:HD23	1:DO:138:LEU:H	1.71	0.55
7:ED:211:ASP:HB2	7:EE:276:ILE:HG23	1.89	0.55
7:EE:383:ASP:O	7:EE:384:ARG:C	2.45	0.55
1:AC:190:ASP:OD1	1:AC:192:ASP:N	2.39	0.55
1:AK:145:ASN:CB	1:BN:142:TYR:O	2.40	0.55
1:AS:315:LEU:HA	1:CS:320:SER:CB	2.33	0.55
1:AW:4:PRO:HD3	1:BN:76:PRO:N	2.20	0.55
1:AW:6:LEU:HA	1:BK:92:ARG:O	2.06	0.55
1:BI:92:ARG:CD	1:DK:6:LEU:N	2.68	0.55
1:BI:93:VAL:HG12	1:DK:6:LEU:CD1	2.36	0.55
1:BN:275:ASP:OD1	1:BN:279:GLN:N	2.39	0.55
1:CQ:124:LEU:HD13	1:CQ:330:VAL:HG21	1.88	0.55
1:CV:63:HIS:NE2	1:CV:70:GLU:OE2	2.39	0.55
1:DC:143:LEU:HG	3:DV:84:LYS:HE2	1.86	0.55
5:DY:44:LEU:O	5:DY:48:LYS:HG3	2.06	0.55
6:EB:94:ILE:O	6:EB:95:GLN:C	2.45	0.55
1:AP:7:PHE:CE1	1:CW:75:LYS:O	2.59	0.55
1:AS:44:GLN:HE21	1:CS:102:ASN:N	2.04	0.55
1:BI:145:ASN:HB3	1:DP:19:PHE:HE2	1.68	0.55
1:BI:262:ASN:O	1:BI:262:ASN:ND2	2.40	0.55
1:BU:103:TYR:CZ	1:DP:16:LYS:O	2.58	0.55
1:BY:214:ASP:OD2	1:BY:217:ASP:N	2.39	0.55
1:BZ:200:VAL:HG12	1:BZ:344:PHE:HB2	1.88	0.55
1:CI:31:THR:HG23	1:CI:31:THR:O	2.06	0.55
1:DB:23:ILE:HG22	1:DC:50:GLN:HG3	1.88	0.55
5:DX:78:GLN:OE1	5:DZ:81:LYS:N	2.40	0.55
1:AH:40:GLU:OE1	1:AH:333:ARG:NH1	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:92:ARG:NH1	1:AR:71:ASP:OD2	2.40	0.55
1:BE:125:GLU:OE2	1:BE:286:ASN:ND2	2.38	0.55
1:BI:13:ASN:CG	1:DM:76:PRO:CG	2.72	0.55
1:BU:102:ASN:N	1:DH:43:ASN:HB3	2.21	0.55
1:CH:230:SER:OG	1:CH:339:ALA:O	2.13	0.55
1:CQ:45:THR:OG1	1:CQ:162:ARG:NH2	2.39	0.55
1:DC:131:GLY:O	1:DC:180:VAL:HG23	2.06	0.55
1:DG:108:GLU:OE1	1:DG:108:GLU:N	2.39	0.55
1:DN:290:PRO:O	1:DN:291:THR:OG1	2.21	0.55
2:DR:19:ARG:HD2	2:DR:22:ASP:HB2	1.89	0.55
3:DU:35:ILE:HA	3:DU:38:PHE:HD2	1.71	0.55
3:DV:72:PRO:CD	5:DY:28:TYR:O	2.54	0.55
1:AI:71:ASP:OD2	1:AL:92:ARG:NE	2.40	0.55
1:AO:262:ASN:OD1	1:AR:267:ILE:HD12	2.06	0.55
1:BC:220:ASP:OD1	1:BC:221:MET:N	2.39	0.55
1:BM:262:ASN:OD1	1:BP:267:ILE:HD12	2.06	0.55
1:BS:215:GLU:HG3	1:BS:248:LEU:CD2	2.37	0.55
1:DA:48:SER:OG	1:DA:80:LYS:O	2.19	0.55
1:DB:64:VAL:HG12	1:DF:160:ALA:CB	2.37	0.55
2:DR:25:TYR:OH	4:DW:848:ASP:HA	2.06	0.55
1:AI:127:ILE:O	1:AI:130:SER:OG	2.22	0.55
1:AK:44:GLN:NE2	1:BK:101:ALA:O	2.39	0.55
1:AP:3:ASN:N	1:CW:56:SER:OG	2.38	0.55
1:AP:8:VAL:C	1:CS:96:THR:CB	2.75	0.55
1:CB:33:PHE:O	1:CB:37:THR:HG23	2.06	0.55
1:CK:215:GLU:OE1	1:CK:248:LEU:HD13	2.07	0.55
1:DB:311:LYS:HZ1	7:ED:26:GLN:HE22	1.53	0.55
2:DR:25:TYR:CE1	4:DW:849:ASP:OD2	2.60	0.55
3:DV:44:LYS:NZ	3:DV:162:GLU:OE1	2.40	0.55
3:DV:59:VAL:CA	5:DX:3:VAL:HG23	2.34	0.55
1:AR:275:ASP:OD1	1:AR:279:GLN:N	2.39	0.55
1:BA:127:ILE:O	1:BA:130:SER:OG	2.16	0.55
1:BI:94:SER:CB	1:DM:153:ALA:H	2.19	0.55
1:BK:131:GLY:O	1:BK:181:VAL:HG23	2.07	0.55
1:BU:4:PRO:HA	1:DH:74:MET:HB2	0.61	0.55
1:BW:192:ASP:OD1	1:BW:193:THR:N	2.36	0.55
1:CE:57:VAL:HG21	1:CU:122:ARG:HE	1.72	0.55
1:CS:93:VAL:HG13	1:CS:321:TYR:OH	2.06	0.55
1:CU:303:THR:OG1	1:CU:333:ARG:NH1	2.40	0.55
1:CX:82:ASN:OD1	1:CX:83:VAL:N	2.39	0.55
1:DE:96:THR:OG1	1:DP:65:GLU:OE2	2.16	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DO:8:VAL:HG12	1:DO:9:SER:N	2.22	0.55
5:DX:84:ASP:HA	5:DX:87:LEU:HD12	1.87	0.55
7:ED:383:ASP:O	7:ED:384:ARG:C	2.44	0.55
1:AD:96:THR:O	1:AD:99:THR:OG1	2.25	0.55
1:AH:298:ARG:O	1:AH:299:SER:OG	2.16	0.55
1:AK:262:ASN:O	1:AK:262:ASN:ND2	2.40	0.55
1:AM:131:GLY:O	1:AM:181:VAL:HG23	2.07	0.55
1:BC:145:ASN:O	1:BC:145:ASN:ND2	2.40	0.55
1:CE:308:ARG:NH1	1:CY:96:THR:OG1	2.39	0.55
1:CF:202:GLN:N	1:CF:217:ASP:OD2	2.40	0.55
1:CI:196:VAL:HG23	1:CI:196:VAL:O	2.07	0.55
1:CS:134:ARG:O	1:CS:135:THR:OG1	2.17	0.55
1:CV:31:THR:HB	1:CV:34:VAL:HG12	1.89	0.55
1:DD:169:PHE:O	1:DD:173:HIS:ND1	2.39	0.55
1:AE:145:ASN:ND2	1:AE:145:ASN:O	2.40	0.55
1:AF:253:GLN:OE1	1:AF:253:GLN:N	2.38	0.55
1:AU:215:GLU:HG3	1:AU:248:LEU:CD2	2.37	0.55
1:BI:72:GLY:C	1:DP:3:ASN:CG	2.66	0.55
1:BI:145:ASN:CB	1:DP:19:PHE:HE2	2.13	0.55
1:CF:97:ALA:O	1:CF:100:THR:OG1	2.25	0.55
1:CT:203:ASN:ND2	1:CT:212:GLY:O	2.40	0.55
1:CY:195:ALA:HB2	1:CY:227:THR:HG23	1.89	0.55
1:CZ:206:ASN:ND2	1:CZ:215:GLU:OE2	2.40	0.55
1:DH:226:TYR:OH	1:DP:285:VAL:O	2.25	0.55
1:DN:257:LYS:O	1:DN:272:SER:OG	2.25	0.55
1:BC:206:ASN:OD1	1:BC:214:ASP:HB3	2.07	0.54
1:BL:74:MET:N	1:BL:74:MET:SD	2.80	0.54
1:BX:33:PHE:O	1:BX:37:THR:HG23	2.06	0.54
1:BY:64:VAL:HG13	1:CC:160:ALA:HA	1.89	0.54
1:BY:82:ASN:ND2	1:BY:332:LEU:O	2.36	0.54
1:CC:167:PHE:N	1:CC:169:PHE:O	2.35	0.54
1:CN:237:ILE:HD11	1:CN:241:HIS:CB	2.37	0.54
1:CR:264:LYS:O	1:CV:270:VAL:HG13	2.06	0.54
1:DB:144:THR:O	1:DB:148:ALA:N	2.40	0.54
1:DG:198:VAL:HG22	1:DG:342:VAL:HG12	1.89	0.54
1:DG:266:PHE:CE2	1:DK:248:LEU:HD23	2.42	0.54
3:DU:138:TYR:CD1	3:DU:145:LEU:HD21	2.35	0.54
1:AM:92:ARG:NH1	1:CR:156:ASN:HD21	1.70	0.54
1:AP:125:GLU:OE2	1:AP:286:ASN:ND2	2.39	0.54
1:BB:96:THR:O	1:BB:99:THR:OG1	2.25	0.54
1:BF:250:GLU:OE2	1:BL:251:ASN:ND2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:91:VAL:CG1	1:DK:7:PHE:HD1	2.19	0.54
1:BU:93:VAL:CA	1:DP:7:PHE:O	2.53	0.54
1:CD:102:ASN:OD1	1:CD:105:ARG:NH1	2.41	0.54
1:CM:97:ALA:O	1:CM:100:THR:OG1	2.24	0.54
1:CW:50:GLN:N	1:CW:50:GLN:OE1	2.40	0.54
1:DH:192:ASP:OD1	1:DH:193:THR:N	2.41	0.54
1:DN:44:GLN:O	1:DN:307:LEU:HD21	2.07	0.54
3:DV:12:THR:CG2	3:DV:168:ASP:O	2.54	0.54
4:DW:240:THR:CB	4:DW:276:ASN:ND2	2.70	0.54
7:ED:299:LEU:HD22	7:ED:303:LYS:HG3	1.88	0.54
7:ED:419:LEU:HD21	7:EE:363:TYR:CD2	2.42	0.54
7:ED:517:ASN:C	7:EE:112:ARG:HH22	2.08	0.54
1:AP:275:ASP:OD1	1:AP:279:GLN:N	2.39	0.54
1:BI:320:SER:N	1:DO:66:GLY:O	2.40	0.54
1:BP:249:GLN:OE1	1:BP:249:GLN:N	2.41	0.54
1:BU:13:ASN:CB	1:DP:105:ARG:NH1	2.70	0.54
1:BX:85:GLN:HB2	1:BX:164:THR:HG23	1.89	0.54
3:DU:83:ALA:O	5:DZ:25:ILE:CA	2.56	0.54
3:DU:212:MET:SD	3:DV:48:ARG:HD3	2.47	0.54
5:DY:73:ILE:CA	5:DY:76:LEU:HB2	2.36	0.54
1:AM:7:PHE:N	1:CR:74:MET:SD	2.81	0.54
1:AR:249:GLN:OE1	1:AR:249:GLN:N	2.40	0.54
1:AS:73:GLU:HG2	1:CS:3:ASN:HB3	1.88	0.54
1:AS:213:PHE:HE1	1:AS:218:ILE:HD11	1.72	0.54
1:BI:140:ASP:O	1:DH:144:THR:HB	2.08	0.54
1:BQ:70:GLU:N	1:BQ:70:GLU:OE2	2.41	0.54
1:BQ:220:ASP:OD1	1:BQ:221:MET:N	2.40	0.54
1:BX:124:LEU:HD11	1:BX:128:LEU:HD11	1.89	0.54
1:CI:257:LYS:NZ	1:CI:278:GLY:O	2.37	0.54
1:CW:246:ALA:O	1:CW:258:ARG:NH1	2.39	0.54
1:DA:132:GLN:O	1:DA:166:ALA:N	2.40	0.54
1:DG:306:VAL:HG12	1:DG:330:VAL:HG12	1.87	0.54
5:DX:68:LEU:CD2	5:DY:70:LYS:CE	2.81	0.54
1:AF:196:VAL:N	1:AF:224:GLN:OE1	2.39	0.54
1:AJ:271:ASN:OD1	1:AJ:272:SER:N	2.41	0.54
1:AP:88:ARG:NH2	1:AS:64:VAL:O	2.39	0.54
1:AP:101:ALA:CB	1:CW:43:ASN:N	2.56	0.54
1:AP:108:GLU:HB3	1:CS:7:PHE:HE1	1.48	0.54
1:AS:143:LEU:HG	1:CW:144:THR:H	1.71	0.54
1:AS:220:ASP:OD1	1:AS:221:MET:N	2.40	0.54
1:AY:218:ILE:O	1:AY:222:THR:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:71:ASP:OD2	1:BJ:92:ARG:NE	2.40	0.54
1:BX:82:ASN:OD1	1:BX:165:GLY:N	2.41	0.54
1:CD:196:VAL:N	1:CD:224:GLN:OE1	2.39	0.54
1:CO:30:ASP:OD1	1:CO:31:THR:N	2.39	0.54
1:DB:171:CYS:SG	1:DB:342:VAL:HG23	2.46	0.54
1:DD:192:ASP:OD1	1:DD:193:THR:HG22	2.08	0.54
1:DG:49:TRP:NE1	1:DG:334:HIS:O	2.41	0.54
1:DH:108:GLU:N	1:DH:108:GLU:OE1	2.41	0.54
1:DJ:136:ASP:OD1	1:DJ:137:VAL:N	2.40	0.54
3:DU:195:ASP:O	3:DU:198:VAL:HB	2.07	0.54
1:AW:3:ASN:N	1:BN:75:LYS:HG3	2.20	0.54
1:BA:60:ASN:ND2	1:BA:60:ASN:O	2.41	0.54
1:BM:254:GLY:O	1:BM:255:SER:OG	2.15	0.54
1:BY:334:HIS:NE2	1:BY:336:ASN:O	2.41	0.54
1:CB:144:THR:HG23	1:CB:144:THR:O	2.08	0.54
1:CC:54:LEU:HD22	1:CC:75:LYS:HB3	1.89	0.54
1:CT:82:ASN:ND2	1:CT:164:THR:O	2.41	0.54
1:CZ:97:ALA:O	1:CZ:100:THR:OG1	2.25	0.54
7:ED:343:GLN:HE21	7:EE:65:TRP:HE1	1.54	0.54
1:AN:74:MET:N	1:AN:74:MET:SD	2.80	0.54
1:AO:254:GLY:O	1:AO:255:SER:OG	2.15	0.54
1:AP:99:THR:OG1	1:CW:307:LEU:HD22	1.91	0.54
1:AP:108:GLU:CG	1:CS:12:GLN:N	2.69	0.54
1:AS:70:GLU:N	1:AS:70:GLU:OE2	2.41	0.54
1:BD:196:VAL:N	1:BD:224:GLN:OE1	2.39	0.54
1:BM:92:ARG:NH1	1:BP:71:ASP:OD2	2.40	0.54
1:BT:317:LYS:NZ	1:BT:319:GLY:O	2.30	0.54
1:BU:318:ASP:HA	1:DH:315:LEU:HA	1.90	0.54
1:DI:83:VAL:HG11	1:DI:136:ASP:OD2	2.08	0.54
1:DO:6:LEU:O	1:DO:8:VAL:HG23	2.08	0.54
3:DU:89:PHE:CD1	3:DU:116:VAL:HG11	2.43	0.54
7:ED:419:LEU:HD21	7:EE:363:TYR:CZ	2.39	0.54
1:AP:13:ASN:HB2	1:CS:105:ARG:NH2	2.22	0.54
1:AW:3:ASN:N	1:BN:76:PRO:O	2.36	0.54
1:AW:7:PHE:HB3	1:BK:93:VAL:CB	2.37	0.54
1:BP:275:ASP:OD1	1:BP:279:GLN:N	2.39	0.54
1:BQ:143:LEU:HD12	1:BQ:144:THR:N	2.22	0.54
1:DH:291:THR:O	1:DH:291:THR:HG22	2.08	0.54
1:DQ:8:VAL:HG22	1:DQ:9:SER:H	1.73	0.54
3:DV:60:TYR:OH	5:DX:2:ILE:HA	2.07	0.54
3:DV:67:VAL:O	3:DV:68:ALA:C	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EE:244:ILE:O	7:EE:244:ILE:CG2	2.55	0.54
1:AS:146:SER:O	1:CW:79:ILE:HB	2.08	0.54
1:AW:100:THR:HG21	1:BN:84:THR:OG1	2.07	0.54
1:AW:104:GLY:CA	1:BK:16:LYS:CE	2.54	0.54
1:AX:105:ARG:NH2	1:AX:108:GLU:OE2	2.41	0.54
1:BI:144:THR:HA	1:DH:143:LEU:CA	2.37	0.54
1:BI:316:ALA:HB2	1:DM:317:LYS:O	2.08	0.54
1:BQ:213:PHE:HE1	1:BQ:218:ILE:HD11	1.72	0.54
1:BU:4:PRO:HB2	1:DP:94:SER:OG	2.08	0.54
1:BV:196:VAL:N	1:BV:224:GLN:OE1	2.38	0.54
1:CP:64:VAL:HG12	1:CP:64:VAL:O	2.07	0.54
1:CT:124:LEU:HD13	1:CT:330:VAL:HG21	1.90	0.54
1:DP:306:VAL:HA	1:DP:330:VAL:HG12	1.89	0.54
1:AA:162:ARG:NH1	1:AA:329:GLU:OE2	2.41	0.54
1:AY:162:ARG:NH1	1:AY:329:GLU:OE2	2.40	0.54
1:BU:4:PRO:CB	1:DH:74:MET:HB2	2.28	0.54
1:CO:83:VAL:HG12	1:CO:84:THR:N	2.23	0.54
1:CV:97:ALA:O	1:CV:100:THR:OG1	2.26	0.54
1:DD:124:LEU:HD11	1:DD:330:VAL:CG2	2.38	0.54
1:DD:332:LEU:HD23	1:DD:332:LEU:H	1.73	0.54
3:DU:153:ILE:HD11	5:DZ:27:ALA:HB1	1.89	0.54
4:DW:849:ASP:O	4:DW:851:SER:N	2.41	0.54
5:DY:81:LYS:CB	5:DZ:80:PHE:HZ	2.20	0.54
7:ED:335:PRO:C	7:EE:125:GLN:HE22	2.10	0.54
1:AA:218:ILE:O	1:AA:222:THR:HG23	2.08	0.53
1:BF:144:THR:C	1:DM:144:THR:HB	2.28	0.53
1:BI:213:PHE:HB3	1:BI:345:THR:HG22	1.90	0.53
1:BI:214:ASP:HB3	1:BI:217:ASP:HB2	1.90	0.53
1:BN:88:ARG:NH2	1:BQ:64:VAL:O	2.39	0.53
1:BR:231:GLU:OE1	1:BR:298:ARG:NH1	2.41	0.53
1:BV:105:ARG:NH2	1:BV:108:GLU:OE2	2.41	0.53
1:BZ:171:CYS:SG	1:BZ:342:VAL:HG21	2.49	0.53
1:CA:118:LYS:HB2	1:CB:54:LEU:HD21	1.88	0.53
1:CV:249:GLN:OE1	1:CV:258:ARG:NH1	2.41	0.53
1:DL:64:VAL:O	1:DL:67:SER:OG	2.26	0.53
3:DU:126:ILE:HG22	3:DU:127:PHE:N	2.22	0.53
3:DV:138:TYR:O	3:DV:139:PRO:C	2.45	0.53
4:DW:213:ILE:HD11	4:DW:215:LEU:HD21	1.89	0.53
1:AE:206:ASN:OD1	1:AE:214:ASP:HB3	2.08	0.53
1:AH:250:GLU:OE2	1:AN:251:ASN:ND2	2.40	0.53
1:AP:4:PRO:O	1:CW:74:MET:HG3	2.03	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:145:ASN:O	1:DP:19:PHE:CD1	2.61	0.53
1:BU:12:GLN:CB	1:DP:97:ALA:HB2	2.39	0.53
1:BU:103:TYR:O	1:DP:16:LYS:CD	2.53	0.53
1:BX:82:ASN:ND2	1:BX:332:LEU:O	2.38	0.53
1:CE:275:ASP:OD1	1:CE:279:GLN:N	2.40	0.53
1:CF:87:LEU:HB2	1:CF:120:ILE:HD11	1.90	0.53
1:CG:99:THR:N	1:CG:108:GLU:OE2	2.42	0.53
1:CN:97:ALA:O	1:CN:100:THR:OG1	2.25	0.53
1:CU:70:GLU:N	1:CU:70:GLU:OE1	2.41	0.53
1:DB:311:LYS:CD	7:ED:26:GLN:OE1	2.55	0.53
1:DL:200:VAL:HG22	1:DL:344:PHE:HB2	1.89	0.53
2:DR:13:LEU:HD11	2:DR:37:THR:HG21	1.89	0.53
2:DS:23:TYR:CB	2:DS:25:TYR:HD1	2.22	0.53
5:DY:90:LEU:O	5:DY:91:ILE:O	2.27	0.53
1:AG:213:PHE:HB2	1:AG:218:ILE:HD11	1.90	0.53
1:AK:308:ARG:HH22	1:BK:96:THR:HG1	1.51	0.53
1:AQ:88:ARG:NH1	1:AQ:327:GLU:OE2	2.42	0.53
1:CA:44:GLN:O	1:CA:46:ILE:HG22	2.07	0.53
1:CJ:254:GLY:O	1:CY:257:LYS:NZ	2.38	0.53
3:DU:26:ARG:NE	4:DW:973:ASN:CG	2.62	0.53
7:EE:299:LEU:HD22	7:EE:303:LYS:HG3	1.88	0.53
1:AC:60:ASN:O	1:AC:60:ASN:ND2	2.41	0.53
1:AJ:30:ASP:O	1:AJ:31:THR:OG1	2.25	0.53
1:AP:105:ARG:NH1	1:AP:107:ARG:O	2.41	0.53
1:AS:44:GLN:NE2	1:CS:102:ASN:CA	2.51	0.53
1:BF:298:ARG:O	1:BF:299:SER:OG	2.16	0.53
1:BO:88:ARG:NH1	1:BO:327:GLU:OE2	2.42	0.53
1:BW:315:LEU:HD23	1:BY:318:ASP:OD2	2.08	0.53
1:CC:199:LYS:NZ	1:CC:220:ASP:OD2	2.38	0.53
1:CK:215:GLU:HG3	1:CK:248:LEU:HD13	1.90	0.53
1:CL:33:PHE:O	1:CL:37:THR:HG23	2.08	0.53
1:CU:182:ASP:OD1	1:CU:183:LYS:N	2.42	0.53
1:DD:224:GLN:O	1:DD:227:THR:OG1	2.26	0.53
1:DJ:269:GLU:OE1	1:DL:258:ARG:N	2.41	0.53
1:AM:97:ALA:HB3	1:CN:9:SER:HB2	1.66	0.53
1:BI:17:LEU:CD1	1:DM:143:LEU:C	2.68	0.53
1:BI:97:ALA:HB1	1:DK:11:ASP:N	2.24	0.53
1:BI:103:TYR:N	1:DK:13:ASN:O	2.42	0.53
1:BI:147:ALA:CA	1:DH:143:LEU:CD1	2.84	0.53
1:BN:105:ARG:NH1	1:BN:107:ARG:O	2.41	0.53
1:DH:214:ASP:OD1	1:DH:215:GLU:N	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DK:17:LEU:O	1:DK:17:LEU:HD23	2.08	0.53
2:DR:20:ASP:CA	4:DW:856:VAL:HG12	2.32	0.53
3:DV:195:ASP:O	3:DV:198:VAL:HB	2.08	0.53
1:BO:60:ASN:ND2	1:BO:60:ASN:O	2.41	0.53
1:BX:215:GLU:OE2	1:BX:256:ARG:NH1	2.41	0.53
1:CJ:208:THR:HG22	1:CJ:348:GLY:O	2.09	0.53
1:CL:122:ARG:NH1	1:CP:55:ALA:O	2.42	0.53
1:CT:288:TRP:CZ3	1:CX:57:VAL:HG11	2.44	0.53
1:CU:45:THR:OG1	1:CU:162:ARG:NH2	2.42	0.53
1:CY:275:ASP:OD1	1:CY:279:GLN:N	2.41	0.53
1:DG:70:GLU:O	1:DI:90:VAL:HG11	2.09	0.53
5:DX:67:VAL:O	5:DX:71:GLN:HG2	2.08	0.53
7:ED:212:GLU:OE2	7:EE:270:GLN:HG2	2.02	0.53
1:AK:213:PHE:HB3	1:AK:345:THR:HG22	1.91	0.53
1:AQ:60:ASN:O	1:AQ:60:ASN:ND2	2.41	0.53
1:AR:90:VAL:HG11	1:AU:69:ALA:HB2	1.91	0.53
1:BW:25:VAL:HG23	1:BW:25:VAL:O	2.09	0.53
1:BW:54:LEU:HD23	1:BW:55:ALA:O	2.09	0.53
1:BX:131:GLY:CA	1:BX:180:VAL:HG13	2.39	0.53
1:BX:241:HIS:NE2	1:BX:291:THR:O	2.40	0.53
1:CU:308:ARG:NH2	1:CU:327:GLU:OE1	2.41	0.53
3:DU:171:THR:HG23	3:DU:172:ILE:N	2.23	0.53
7:ED:376:LYS:NZ	7:ED:408:PRO:HD3	2.24	0.53
1:AS:73:GLU:CG	1:CS:3:ASN:CB	2.87	0.53
1:BB:290:PRO:O	1:BB:291:THR:HG22	2.09	0.53
1:CE:125:GLU:OE2	1:CE:286:ASN:ND2	2.42	0.53
1:CM:82:ASN:OD1	1:CM:83:VAL:N	2.38	0.53
1:CS:218:ILE:O	1:CS:222:THR:HG23	2.09	0.53
3:DU:83:ALA:HA	5:DZ:25:ILE:O	2.09	0.53
1:AD:290:PRO:O	1:AD:291:THR:HG22	2.09	0.53
1:AK:214:ASP:HB3	1:AK:217:ASP:HB2	1.90	0.53
1:AP:141:GLN:HE22	1:CR:143:LEU:H	1.57	0.53
1:AP:141:GLN:HB3	1:CR:143:LEU:O	1.95	0.53
1:AW:108:GLU:HB2	1:BK:7:PHE:HE2	1.63	0.53
1:BL:230:SER:OG	1:BL:339:ALA:O	2.17	0.53
1:BS:33:PHE:N	1:BS:125:GLU:OE2	2.42	0.53
1:BU:12:GLN:HB2	1:DP:97:ALA:N	2.21	0.53
1:BU:14:GLY:C	1:DP:102:ASN:OD1	2.47	0.53
1:BU:16:LYS:CD	1:DP:102:ASN:OD1	2.57	0.53
1:BU:93:VAL:HA	1:DP:7:PHE:HB3	1.90	0.53
1:BU:100:THR:HG23	1:DH:307:LEU:CB	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CF:237:ILE:HD11	1:CF:241:HIS:CB	2.38	0.53
1:CK:255:SER:OG	1:CZ:250:GLU:O	2.23	0.53
1:CL:298:ARG:NH1	1:CL:301:ASP:OD1	2.42	0.53
1:CN:237:ILE:HD11	1:CN:241:HIS:HB2	1.89	0.53
1:CO:258:ARG:NH2	1:CO:267:ILE:O	2.42	0.53
1:DL:298:ARG:O	1:DL:299:SER:OG	2.20	0.53
1:DN:157:ASP:O	1:DN:158:THR:OG1	2.22	0.53
2:DS:51:ILE:HD11	2:DT:42:PHE:HA	1.90	0.53
3:DU:83:ALA:CA	5:DZ:25:ILE:O	2.57	0.53
3:DV:29:ASP:HA	3:DV:32:VAL:HG22	1.91	0.53
1:AO:203:ASN:O	1:AO:349:LYS:NZ	2.40	0.53
1:AT:231:GLU:OE1	1:AT:298:ARG:NH1	2.41	0.53
1:BF:25:VAL:HG13	1:BL:53:ALA:HA	1.91	0.53
1:BL:33:PHE:HE1	1:BL:37:THR:HG21	1.73	0.53
1:BR:249:GLN:OE1	1:BR:249:GLN:N	2.42	0.53
1:CW:88:ARG:NE	1:CW:327:GLU:OE2	2.38	0.53
1:CY:31:THR:HB	1:CY:34:VAL:HG12	1.91	0.53
1:DB:16:LYS:HG3	3:DV:234:ARG:HG2	1.88	0.53
6:EA:102:SER:O	6:EA:104:GLU:CA	2.56	0.53
7:EE:376:LYS:NZ	7:EE:408:PRO:HD3	2.24	0.53
1:AG:125:GLU:OE2	1:AG:286:ASN:ND2	2.38	0.52
1:AU:33:PHE:N	1:AU:125:GLU:OE2	2.42	0.52
1:BH:144:THR:HG22	1:BP:144:THR:HA	1.91	0.52
1:BI:7:PHE:HZ	1:DM:69:ALA:HB1	1.74	0.52
1:CQ:224:GLN:O	1:CQ:227:THR:OG1	2.27	0.52
1:DA:186:ASN:OD1	1:DA:187:GLY:N	2.42	0.52
2:DT:21:ARG:O	4:DW:838:ILE:HG23	2.09	0.52
2:DT:59:MET:HA	2:DT:62:LYS:HG2	1.91	0.52
3:DV:32:VAL:O	3:DV:35:ILE:N	2.41	0.52
3:DV:55:LEU:C	3:DV:55:LEU:HD12	2.30	0.52
5:DX:71:GLN:HA	5:DZ:77:LYS:HE3	1.91	0.52
1:AP:92:ARG:CB	1:CS:6:LEU:CA	2.84	0.52
1:AV:317:LYS:NZ	1:AV:319:GLY:O	2.30	0.52
1:BU:231:GLU:OE1	1:BU:298:ARG:NH2	2.42	0.52
1:BX:69:ALA:HB1	1:CB:90:VAL:HG21	1.91	0.52
3:DV:60:TYR:CD1	5:DX:3:VAL:N	2.77	0.52
3:DV:71:PRO:HB3	5:DX:5:ASN:HD21	1.73	0.52
3:DV:158:ALA:CB	5:DY:24:SER:HB2	2.38	0.52
1:BI:298:ARG:NH1	1:BI:301:ASP:OD1	2.42	0.52
1:BT:95:ASP:O	1:BT:99:THR:OG1	2.28	0.52
1:BU:92:ARG:CZ	1:DP:6:LEU:N	2.70	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BV:215:GLU:O	1:BV:216:ALA:HB3	2.10	0.52
1:BZ:240:ALA:O	1:BZ:243:LYS:NZ	2.39	0.52
1:CA:237:ILE:HG22	1:CA:285:VAL:HA	1.91	0.52
1:CE:263:THR:HG22	1:CE:263:THR:O	2.10	0.52
1:CG:180:VAL:HG22	1:CG:181:VAL:H	1.74	0.52
1:CT:196:VAL:N	1:CT:224:GLN:OE1	2.42	0.52
1:CU:262:ASN:OD1	1:CU:263:THR:N	2.42	0.52
1:DE:13:ASN:ND2	1:DN:77:THR:O	2.43	0.52
2:DT:17:TYR:CG	2:DT:18:PRO:N	2.77	0.52
3:DV:175:ILE:CD1	5:DY:15:VAL:CA	2.70	0.52
7:ED:557:GLN:NE2	7:EE:579:LEU:H	1.97	0.52
1:AF:230:SER:OG	1:AF:339:ALA:O	2.22	0.52
1:AN:206:ASN:O	1:AN:349:LYS:N	2.43	0.52
1:AS:65:GLU:CA	1:CN:320:SER:OG	2.54	0.52
1:BI:17:LEU:H	1:DM:143:LEU:HD11	1.74	0.52
1:BU:96:THR:OG1	1:DP:9:SER:CB	2.53	0.52
1:BY:182:ASP:OD2	1:BY:185:LYS:NZ	2.40	0.52
1:CC:134:ARG:NH1	1:CC:168:GLN:OE1	2.43	0.52
1:CJ:205:SER:OG	1:CJ:214:ASP:OD2	2.28	0.52
1:CO:26:LEU:HD12	1:CS:336:ASN:HB3	1.90	0.52
1:CO:240:ALA:H	1:CS:223:LEU:HD11	1.75	0.52
1:CU:96:THR:HG22	1:CU:96:THR:O	2.10	0.52
1:DC:143:LEU:HB3	3:DV:84:LYS:CE	2.39	0.52
2:DS:32:ARG:NE	2:DT:15:PRO:O	2.37	0.52
3:DU:65:ASP:O	3:DU:67:VAL:HG13	2.10	0.52
5:DX:41:TRP:HB3	5:DZ:45:ALA:HB1	1.91	0.52
7:ED:244:ILE:O	7:ED:245:GLU:C	2.44	0.52
7:ED:611:SER:HB3	7:EE:606:ASN:ND2	2.25	0.52
7:EE:416:ILE:O	7:EE:417:ASP:C	2.46	0.52
1:BE:213:PHE:HB2	1:BE:218:ILE:HD11	1.91	0.52
1:BH:271:ASN:OD1	1:BH:272:SER:N	2.41	0.52
1:CM:213:PHE:CE1	1:CM:218:ILE:HD11	2.44	0.52
1:CP:236:MET:O	1:CP:294:VAL:HG13	2.10	0.52
1:DC:143:LEU:HB3	3:DV:84:LYS:HE3	1.90	0.52
1:DD:74:MET:N	1:DD:74:MET:SD	2.82	0.52
1:DG:298:ARG:O	1:DG:299:SER:OG	2.23	0.52
2:DT:80:VAL:O	2:DT:81:THR:OG1	2.23	0.52
3:DV:26:ARG:HD3	4:DW:967:HIS:CE1	2.43	0.52
1:AH:25:VAL:HG13	1:AN:53:ALA:HA	1.91	0.52
1:AS:44:GLN:CG	1:CS:101:ALA:N	2.65	0.52
1:BK:190:ASP:OD1	1:BK:192:ASP:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BL:206:ASN:O	1:BL:349:LYS:N	2.43	0.52
1:BU:222:THR:OG1	1:BU:275:ASP:OD1	2.12	0.52
1:CE:124:LEU:HD13	1:CE:330:VAL:HG21	1.91	0.52
1:CN:83:VAL:O	1:CN:164:THR:HG22	2.10	0.52
1:DH:298:ARG:O	1:DH:299:SER:OG	2.19	0.52
3:DV:55:LEU:HD12	3:DV:56:GLU:N	2.24	0.52
4:DW:748:ALA:HB2	6:EC:22:GLY:HA2	1.92	0.52
7:ED:628:GLU:HB3	7:EE:627:PHE:CE2	2.41	0.52
7:EE:239:PHE:CZ	7:EE:245:GLU:OE2	2.63	0.52
1:AV:190:ASP:OD1	1:AV:192:ASP:N	2.42	0.52
1:CS:250:GLU:OE2	1:CW:256:ARG:NH1	2.43	0.52
1:DD:94:SER:OG	1:DD:95:ASP:N	2.42	0.52
1:DI:187:GLY:N	1:DI:198:VAL:O	2.37	0.52
3:DU:3:MET:N	3:DU:4:PRO:CD	2.73	0.52
1:AK:298:ARG:NH1	1:AK:301:ASP:OD1	2.42	0.52
1:AP:92:ARG:NH2	1:CS:6:LEU:H	1.89	0.52
1:AU:220:ASP:OD1	1:AU:221:MET:N	2.43	0.52
1:BA:101:ALA:O	1:BJ:44:GLN:NE2	2.43	0.52
1:BL:224:GLN:O	1:BL:227:THR:OG1	2.26	0.52
1:BP:90:VAL:HG11	1:BS:69:ALA:HB2	1.91	0.52
1:BU:5:THR:N	1:DH:73:GLU:O	2.43	0.52
1:BX:186:ASN:OD1	1:BX:200:VAL:N	2.39	0.52
1:CF:198:VAL:HG22	1:CF:342:VAL:HB	1.92	0.52
1:DB:177:ALA:N	1:DB:180:VAL:O	2.39	0.52
1:DB:203:ASN:ND2	1:DB:210:ASN:O	2.43	0.52
3:DU:55:LEU:HD11	3:DU:157:TYR:HD2	1.74	0.52
1:AJ:144:THR:HG22	1:AR:144:THR:HA	1.91	0.52
1:AM:93:VAL:O	1:CN:8:VAL:CG1	2.53	0.52
1:AM:190:ASP:OD1	1:AM:192:ASP:N	2.43	0.52
1:AN:33:PHE:HE1	1:AN:37:THR:HG21	1.73	0.52
1:AT:249:GLN:N	1:AT:249:GLN:OE1	2.42	0.52
1:AV:213:PHE:O	1:AV:214:ASP:HB2	2.10	0.52
1:BT:190:ASP:OD1	1:BT:192:ASP:N	2.42	0.52
1:BU:5:THR:N	1:DH:73:GLU:C	2.63	0.52
1:CD:315:LEU:HD13	1:CD:324:TRP:HA	1.92	0.52
1:CG:33:PHE:O	1:CG:37:THR:HG23	2.09	0.52
1:CU:224:GLN:O	1:CU:227:THR:OG1	2.28	0.52
1:CU:263:THR:O	1:CU:263:THR:HG22	2.10	0.52
1:CV:82:ASN:ND2	1:CV:332:LEU:O	2.43	0.52
1:DG:138:LEU:HD13	1:DG:141:GLN:H	1.74	0.52
1:DI:306:VAL:HG12	1:DI:330:VAL:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DU:26:ARG:H	4:DW:973:ASN:ND2	2.07	0.52
3:DU:96:GLU:OE1	3:DU:97:ILE:N	2.43	0.52
3:DV:53:PRO:O	3:DV:55:LEU:N	2.43	0.52
1:AC:96:THR:O	1:AC:99:THR:OG1	2.28	0.52
1:AP:5:THR:HG21	1:CW:74:MET:CB	2.03	0.52
1:AP:316:ALA:HB2	1:CN:316:ALA:HB1	1.92	0.52
1:AP:321:TYR:CE2	1:CZ:68:ARG:NE	2.78	0.52
1:AW:105:ARG:CG	1:BK:15:LYS:HA	2.15	0.52
1:CA:88:ARG:NE	1:CA:327:GLU:OE1	2.38	0.52
1:CF:249:GLN:OE1	1:CF:258:ARG:NH1	2.43	0.52
1:CK:231:GLU:O	1:CK:232:ALA:HB3	2.10	0.52
1:DB:9:SER:O	1:DB:15:LYS:NZ	2.32	0.52
1:DJ:124:LEU:HA	1:DJ:127:ILE:HG22	1.91	0.52
3:DU:138:TYR:HD1	3:DU:145:LEU:HD21	1.70	0.52
1:AK:315:LEU:HD22	1:BK:317:LYS:HG2	1.92	0.51
1:AW:231:GLU:OE1	1:AW:298:ARG:NH2	2.42	0.51
1:CH:30:ASP:O	1:CH:31:THR:OG1	2.27	0.51
1:CT:5:THR:C	1:CT:6:LEU:HD23	2.30	0.51
1:DC:172:ALA:O	1:DC:198:VAL:HG21	2.10	0.51
1:DL:31:THR:HG22	1:DL:125:GLU:OE1	2.10	0.51
1:DQ:83:VAL:O	1:DQ:164:THR:HG22	2.10	0.51
3:DU:26:ARG:CB	4:DW:973:ASN:CG	2.63	0.51
3:DU:66:GLY:O	3:DU:127:PHE:N	2.43	0.51
5:DY:79:ASP:HA	5:DY:82:ASP:HB3	1.92	0.51
1:AK:145:ASN:OD1	1:BN:142:TYR:HD1	1.91	0.51
1:AP:321:TYR:CD2	1:CZ:68:ARG:NE	2.78	0.51
1:AS:154:GLY:C	1:CW:71:ASP:HA	2.31	0.51
1:AU:103:TYR:O	1:AX:50:GLN:NE2	2.39	0.51
1:BI:7:PHE:CZ	1:DM:69:ALA:O	2.64	0.51
1:BR:220:ASP:OD1	1:BR:221:MET:N	2.44	0.51
1:BU:3:ASN:CB	1:DP:115:LYS:HZ2	2.03	0.51
1:BX:132:GLN:OE1	1:BX:164:THR:N	2.43	0.51
1:BX:267:ILE:HD12	1:CB:262:ASN:HB3	1.90	0.51
1:DA:95:ASP:O	1:DA:96:THR:OG1	2.16	0.51
1:DD:170:LEU:HD12	1:DD:170:LEU:O	2.09	0.51
1:DL:291:THR:HG22	1:DL:291:THR:O	2.09	0.51
3:DU:230:ASN:ND2	7:EE:369:ASN:ND2	2.58	0.51
4:DW:301:VAL:CG2	4:DW:372:ARG:HG2	2.40	0.51
7:ED:372:TYR:CD2	7:EE:392:PRO:HG3	2.45	0.51
1:AI:215:GLU:HG2	1:AI:248:LEU:CD2	2.41	0.51
1:AN:142:TYR:O	1:AN:145:ASN:ND2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:213:PHE:CZ	1:AT:294:VAL:HG21	2.46	0.51
1:AV:95:ASP:O	1:AV:99:THR:OG1	2.28	0.51
1:BS:220:ASP:OD1	1:BS:221:MET:N	2.43	0.51
1:BU:13:ASN:ND2	1:DH:77:THR:N	2.56	0.51
1:CE:197:THR:HG21	1:CE:338:TYR:HA	1.92	0.51
1:CG:290:PRO:O	1:CG:291:THR:HG22	2.10	0.51
1:CI:291:THR:O	1:CI:291:THR:HG22	2.09	0.51
1:CQ:307:LEU:HD22	1:CQ:329:GLU:OE1	2.10	0.51
1:AC:101:ALA:O	1:AL:44:GLN:NE2	2.43	0.51
1:AK:145:ASN:OD1	1:BN:142:TYR:CD1	2.63	0.51
1:AS:296:PHE:O	1:AS:341:GLY:N	2.40	0.51
1:AX:215:GLU:O	1:AX:216:ALA:HB3	2.10	0.51
1:BR:213:PHE:CZ	1:BR:294:VAL:HG21	2.46	0.51
1:BT:248:LEU:O	1:BT:256:ARG:NH2	2.43	0.51
1:CH:199:LYS:NZ	1:CH:220:ASP:OD2	2.39	0.51
1:CT:172:ALA:O	1:CT:198:VAL:HG21	2.11	0.51
1:DC:246:ALA:O	1:DC:258:ARG:NH1	2.42	0.51
3:DV:56:GLU:O	5:DY:21:THR:OG1	2.28	0.51
3:DV:70:ILE:HD12	3:DV:123:SER:HA	1.92	0.51
5:DY:12:VAL:HG13	5:DY:12:VAL:O	2.11	0.51
7:ED:458:MET:SD	7:EE:437:GLY:O	2.69	0.51
7:ED:507:VAL:O	7:ED:508:ASN:C	2.48	0.51
7:EE:507:VAL:O	7:EE:508:ASN:C	2.48	0.51
1:AS:74:MET:HB3	1:CW:154:GLY:O	1.58	0.51
1:AW:222:THR:OG1	1:AW:275:ASP:OD1	2.12	0.51
1:BE:234:ILE:HG23	1:BE:284:ILE:HD12	1.92	0.51
1:BG:215:GLU:HG2	1:BG:248:LEU:CD2	2.41	0.51
1:BW:161:ALA:O	1:BW:162:ARG:HG2	2.11	0.51
1:CY:8:VAL:HG13	1:CY:9:SER:N	2.26	0.51
1:DC:143:LEU:HG	3:DV:84:LYS:NZ	2.24	0.51
3:DV:131:ILE:HG22	3:DV:132:GLU:N	2.26	0.51
7:ED:625:THR:HG22	7:EE:624:ARG:HH12	1.73	0.51
7:ED:646:LYS:HB2	7:EE:644:GLN:CD	2.30	0.51
1:AO:192:ASP:OD1	1:AO:193:THR:N	2.44	0.51
1:AT:220:ASP:OD1	1:AT:221:MET:N	2.44	0.51
1:AY:256:ARG:NE	1:AZ:250:GLU:OE2	2.40	0.51
1:BI:74:MET:SD	1:DP:7:PHE:CB	2.80	0.51
1:BK:196:VAL:N	1:BK:224:GLN:OE1	2.43	0.51
1:BY:92:ARG:NH1	1:BZ:71:ASP:OD2	2.44	0.51
1:CG:203:ASN:OD1	1:CG:206:ASN:N	2.44	0.51
1:CL:49:TRP:NE1	1:CL:334:HIS:O	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DC:30:ASP:N	1:DC:30:ASP:OD1	2.42	0.51
3:DV:60:TYR:CZ	5:DX:2:ILE:CA	2.89	0.51
1:AP:7:PHE:CD2	1:CS:112:GLN:NE2	2.79	0.51
1:AS:154:GLY:O	1:CW:71:ASP:HA	2.10	0.51
1:AV:248:LEU:O	1:AV:256:ARG:NH2	2.43	0.51
1:BF:234:ILE:HG23	1:BF:284:ILE:HD12	1.93	0.51
1:BN:137:VAL:O	1:BN:137:VAL:HG22	2.11	0.51
1:BY:315:LEU:HG	1:BY:316:ALA:H	1.75	0.51
1:CO:250:GLU:OE2	1:CS:256:ARG:NH1	2.44	0.51
1:CQ:25:VAL:HG23	1:CQ:25:VAL:O	2.11	0.51
1:CV:82:ASN:OD1	1:CV:83:VAL:N	2.43	0.51
1:DK:248:LEU:O	1:DK:256:ARG:NH2	2.43	0.51
3:DU:137:TYR:HB3	3:DU:146:ILE:HG23	1.91	0.51
7:ED:372:TYR:CD2	7:EE:392:PRO:CG	2.94	0.51
1:AG:136:ASP:OD1	1:AG:137:VAL:N	2.44	0.51
1:AM:201:ALA:N	1:AM:344:PHE:O	2.43	0.51
1:AP:94:SER:HG	1:CZ:65:GLU:HB3	1.76	0.51
1:BF:65:GLU:OE2	1:DP:99:THR:CG2	2.59	0.51
1:BK:201:ALA:N	1:BK:344:PHE:O	2.43	0.51
1:BK:205:SER:OG	1:BK:214:ASP:OD1	2.26	0.51
1:BL:142:TYR:O	1:BL:145:ASN:ND2	2.43	0.51
1:BU:12:GLN:HB2	1:DP:97:ALA:HB2	1.93	0.51
1:CA:41:SER:OG	1:CA:42:ILE:N	2.44	0.51
1:CD:218:ILE:O	1:CD:222:THR:HG23	2.10	0.51
1:CQ:203:ASN:ND2	1:CQ:212:GLY:O	2.43	0.51
1:DD:187:GLY:H	1:DD:198:VAL:HG13	1.75	0.51
3:DU:224:SER:HB2	3:DV:90:GLN:HA	1.93	0.51
3:DV:53:PRO:N	3:DV:54:PRO:HD2	2.26	0.51
3:DV:192:VAL:CG2	4:DW:926:ASN:CG	2.79	0.51
7:ED:376:LYS:HG2	7:EE:397:GLU:HB2	1.91	0.51
1:AA:114:GLU:OE1	1:AA:114:GLU:N	2.44	0.51
1:AD:214:ASP:HB3	1:AD:217:ASP:OD1	2.11	0.51
1:AY:114:GLU:OE1	1:AY:114:GLU:N	2.44	0.51
1:BA:8:VAL:HG22	1:BA:9:SER:H	1.76	0.51
1:BI:71:ASP:N	1:DP:5:THR:OG1	2.44	0.51
1:BK:27:SER:OG	1:BN:192:ASP:OD2	2.29	0.51
1:BK:224:GLN:O	1:BK:227:THR:OG1	2.27	0.51
1:BW:184:THR:HG23	1:BW:185:LYS:H	1.75	0.51
1:CA:74:MET:SD	1:CA:74:MET:N	2.84	0.51
1:CG:149:ASP:N	1:CG:149:ASP:OD1	2.44	0.51
1:CH:253:GLN:NE2	1:CX:251:ASN:OD1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:34:VAL:HG23	1:DA:125:GLU:OE1	2.11	0.51
1:DF:292:ASP:O	1:DF:345:THR:HG23	2.10	0.51
1:DJ:290:PRO:O	1:DJ:291:THR:OG1	2.22	0.51
2:DS:27:GLY:HA3	4:DW:847:TRP:HZ2	1.75	0.51
5:DY:70:LYS:O	5:DY:73:ILE:HG13	2.11	0.51
1:AC:8:VAL:HG22	1:AC:9:SER:H	1.76	0.51
1:AF:238:ASN:OD1	1:AF:240:ALA:N	2.39	0.51
1:AG:234:ILE:HG23	1:AG:284:ILE:HD12	1.92	0.51
1:AM:94:SER:OG	1:CV:65:GLU:HB2	2.10	0.51
1:AP:5:THR:HG23	1:CW:74:MET:CA	2.40	0.51
1:AP:6:LEU:HA	1:CS:93:VAL:HA	1.92	0.51
1:AP:92:ARG:HD3	1:CS:5:THR:HG22	1.93	0.51
1:AQ:214:ASP:HB3	1:AQ:217:ASP:OD2	2.11	0.51
1:AX:34:VAL:HG23	1:AX:125:GLU:OE1	2.11	0.51
1:BI:103:TYR:CZ	1:DM:145:ASN:OD1	2.62	0.51
1:BJ:50:GLN:NE2	1:BV:103:TYR:O	2.44	0.51
1:BU:7:PHE:CE2	1:DP:97:ALA:CB	2.85	0.51
1:BU:318:ASP:CA	1:DH:315:LEU:HD23	2.34	0.51
1:CG:83:VAL:HG12	1:CG:84:THR:N	2.26	0.51
1:DO:64:VAL:HG12	1:DO:65:GLU:H	1.76	0.51
2:DR:86:ASP:O	2:DR:89:VAL:HG23	2.11	0.51
3:DV:26:ARG:CD	4:DW:967:HIS:HE1	2.23	0.51
3:DV:71:PRO:C	5:DY:30:GLN:HE22	2.12	0.51
3:DV:72:PRO:CG	5:DY:28:TYR:CE2	2.93	0.51
3:DV:124:ARG:HH12	5:DZ:28:TYR:N	2.08	0.51
4:DW:828:VAL:HG22	4:DW:829:ASP:N	2.26	0.51
4:DW:863:ASN:OD1	4:DW:864:PHE:N	2.44	0.51
7:ED:98:ALA:N	7:EE:572:LYS:NZ	2.58	0.51
7:ED:336:ILE:CA	7:EE:125:GLN:NE2	2.72	0.51
7:ED:362:GLY:HA2	7:EE:371:ASN:HD21	1.75	0.51
7:ED:372:TYR:HD2	7:EE:392:PRO:CG	2.24	0.51
1:AC:27:SER:OG	1:AD:192:ASP:OD2	2.27	0.50
1:AW:3:ASN:N	1:BN:75:LYS:HG2	2.24	0.50
1:AW:105:ARG:HB2	1:BN:44:GLN:HE22	1.76	0.50
1:BA:306:VAL:HG13	1:BA:330:VAL:HG22	1.93	0.50
1:BI:95:ASP:C	1:DK:10:TYR:CE2	2.82	0.50
1:BI:144:THR:C	1:DP:19:PHE:CE2	2.84	0.50
1:BI:146:SER:CA	1:DH:143:LEU:HD11	2.40	0.50
1:BU:102:ASN:OD1	1:DP:18:SER:HB3	2.12	0.50
1:BW:315:LEU:HD22	1:BW:323:LYS:O	2.11	0.50
1:BY:27:SER:OG	1:BY:29:GLN:OE1	2.06	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CH:52:ASP:OD1	1:CH:53:ALA:N	2.45	0.50
1:CJ:40:GLU:OE1	1:CJ:333:ARG:NH1	2.44	0.50
1:CR:55:ALA:O	1:CR:56:SER:OG	2.25	0.50
1:CS:197:THR:HG23	1:CS:198:VAL:HG23	1.93	0.50
1:DB:312:ARG:NH2	7:ED:27:GLY:C	2.63	0.50
1:DC:143:LEU:CD2	3:DV:84:LYS:HZ3	2.22	0.50
1:DJ:203:ASN:OD1	1:DJ:204:ALA:N	2.43	0.50
1:DP:31:THR:OG1	1:DP:125:GLU:OE1	2.24	0.50
3:DV:188:ALA:O	3:DV:191:PHE:N	2.44	0.50
1:AB:143:LEU:HB3	1:AQ:144:THR:HG23	1.93	0.50
1:AM:93:VAL:CG1	1:CN:8:VAL:HG23	2.41	0.50
1:BB:214:ASP:HB3	1:BB:217:ASP:OD1	2.11	0.50
1:BD:190:ASP:OD1	1:BD:192:ASP:N	2.45	0.50
1:BI:7:PHE:HZ	1:DM:69:ALA:CB	2.23	0.50
1:BI:145:ASN:O	1:DH:48:SER:OG	2.29	0.50
1:BI:146:SER:H	1:DH:143:LEU:HD12	1.76	0.50
1:BO:49:TRP:NE1	1:BO:334:HIS:O	2.45	0.50
1:CE:135:THR:HG22	1:CE:163:LYS:HB2	1.93	0.50
1:CL:240:ALA:O	1:CL:243:LYS:NZ	2.44	0.50
1:CN:88:ARG:NH2	1:CR:67:SER:O	2.44	0.50
1:DF:168:GLN:NE2	1:DF:176:LEU:HD13	2.25	0.50
2:DT:28:ALA:HB2	4:DW:857:TRP:CE2	2.45	0.50
3:DU:53:PRO:N	3:DU:54:PRO:HD2	2.25	0.50
3:DV:60:TYR:N	5:DX:3:VAL:O	2.31	0.50
5:DX:71:GLN:HA	5:DZ:77:LYS:CE	2.41	0.50
7:ED:21:ARG:HH22	7:ED:294:ILE:HG13	1.63	0.50
1:AH:70:GLU:O	1:AK:90:VAL:HG11	2.11	0.50
1:AL:50:GLN:NE2	1:AX:103:TYR:O	2.44	0.50
1:AM:6:LEU:HD11	1:CN:92:ARG:NH1	2.20	0.50
1:AP:137:VAL:O	1:AP:137:VAL:HG22	2.11	0.50
1:AQ:49:TRP:NE1	1:AQ:334:HIS:O	2.45	0.50
1:AW:103:TYR:N	1:BN:44:GLN:CG	2.66	0.50
1:AZ:143:LEU:HB3	1:BO:144:THR:HG23	1.93	0.50
1:BI:103:TYR:C	1:DK:14:GLY:O	2.48	0.50
1:BI:145:ASN:HB3	1:DP:19:PHE:CD2	2.44	0.50
1:CF:58:ASP:OD1	1:CF:59:GLY:N	2.45	0.50
1:CL:224:GLN:O	1:CL:227:THR:OG1	2.30	0.50
1:CO:192:ASP:OD1	1:CO:193:THR:N	2.45	0.50
1:CW:214:ASP:O	1:CW:215:GLU:HG2	2.11	0.50
1:DE:144:THR:HG22	1:DE:145:ASN:ND2	2.26	0.50
1:DG:238:ASN:ND2	1:DG:289:MET:O	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DQ:95:ASP:O	1:DQ:99:THR:OG1	2.20	0.50
5:DY:80:PHE:CA	5:DY:83:GLN:HB3	2.40	0.50
1:AD:212:GLY:O	1:AD:213:PHE:HB2	2.12	0.50
1:AI:152:VAL:O	1:AI:152:VAL:HG12	2.11	0.50
1:AI:218:ILE:O	1:AI:222:THR:HG23	2.11	0.50
1:AP:96:THR:HG21	1:CZ:64:VAL:CA	2.41	0.50
1:AP:100:THR:HG22	1:CW:44:GLN:CG	2.40	0.50
1:AQ:137:VAL:O	1:AQ:137:VAL:HG13	2.12	0.50
1:BX:54:LEU:HD22	1:CB:27:SER:OG	2.11	0.50
1:BY:57:VAL:HG11	1:CC:126:LYS:HD3	1.93	0.50
1:CG:180:VAL:HG22	1:CG:181:VAL:N	2.26	0.50
1:CW:233:ASP:OD1	1:CW:234:ILE:N	2.44	0.50
1:CY:64:VAL:HG21	1:CY:67:SER:OG	2.11	0.50
1:CZ:131:GLY:O	1:CZ:181:VAL:HG21	2.12	0.50
3:DU:53:PRO:HD2	5:DX:17:GLN:OE1	2.10	0.50
5:DY:65:GLN:HG3	5:DY:68:LEU:HD12	1.94	0.50
1:AP:14:GLY:H	1:CS:105:ARG:CZ	2.23	0.50
1:AT:152:VAL:HG13	1:AT:155:LEU:HB2	1.94	0.50
1:BM:305:MET:N	1:BM:305:MET:SD	2.85	0.50
1:BO:137:VAL:HG13	1:BO:137:VAL:O	2.12	0.50
1:BP:81:SER:O	1:BP:134:ARG:NH2	2.45	0.50
1:BV:34:VAL:HG23	1:BV:125:GLU:OE1	2.11	0.50
1:CK:180:VAL:HG22	1:CK:181:VAL:H	1.77	0.50
1:CQ:286:ASN:OD1	1:CQ:287:ARG:N	2.44	0.50
1:CR:33:PHE:O	1:CR:37:THR:HG23	2.11	0.50
1:CU:275:ASP:OD1	1:CU:279:GLN:N	2.44	0.50
1:CV:25:VAL:O	1:CV:25:VAL:HG13	2.12	0.50
1:CV:96:THR:O	1:CV:100:THR:HG23	2.10	0.50
1:DA:52:ASP:OD2	1:DE:111:TYR:OH	2.27	0.50
1:DM:263:THR:HG22	1:DM:265:GLN:H	1.77	0.50
1:DQ:184:THR:O	1:DQ:184:THR:HG22	2.12	0.50
2:DR:21:ARG:CA	4:DW:856:VAL:HG11	2.33	0.50
3:DU:8:TYR:CD1	3:DV:36:PRO:HB2	2.46	0.50
3:DV:70:ILE:O	5:DY:30:GLN:NE2	2.45	0.50
7:ED:416:ILE:O	7:ED:417:ASP:C	2.46	0.50
7:ED:470:ARG:O	7:EE:117:TYR:CZ	2.65	0.50
7:EE:384:ARG:O	7:EE:385:ARG:C	2.49	0.50
1:AR:81:SER:O	1:AR:134:ARG:NH2	2.45	0.50
1:AW:7:PHE:CZ	1:BK:97:ALA:O	2.64	0.50
1:BI:105:ARG:CG	1:DK:13:ASN:CA	2.70	0.50
1:BM:27:SER:O	1:BM:29:GLN:NE2	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BM:192:ASP:OD1	1:BM:193:THR:N	2.44	0.50
1:BO:214:ASP:HB3	1:BO:217:ASP:OD2	2.11	0.50
1:BP:254:GLY:O	1:BP:255:SER:OG	2.28	0.50
1:BW:291:THR:O	1:BW:291:THR:HG22	2.11	0.50
1:CB:164:THR:HG21	1:CB:331:GLY:HA2	1.93	0.50
1:CJ:339:ALA:HB2	1:CY:26:LEU:HD12	1.93	0.50
1:CL:70:GLU:OE2	1:CL:70:GLU:N	2.39	0.50
1:CL:96:THR:HG22	1:CL:96:THR:O	2.12	0.50
1:CM:291:THR:HG22	1:CM:291:THR:O	2.12	0.50
1:CS:45:THR:OG1	1:CS:84:THR:OG1	2.25	0.50
1:CW:237:ILE:HD11	1:CW:241:HIS:HB3	1.92	0.50
1:DQ:233:ASP:OD1	1:DQ:233:ASP:N	2.44	0.50
3:DU:26:ARG:HE	4:DW:973:ASN:CG	2.02	0.50
3:DU:173:LEU:HD12	3:DU:173:LEU:N	2.27	0.50
3:DV:72:PRO:HD3	5:DY:30:GLN:HE22	1.77	0.50
5:DX:74:GLU:HG2	5:DZ:77:LYS:CE	2.42	0.50
6:EC:97:GLN:O	6:EC:98:MET:C	2.49	0.50
1:AB:196:VAL:N	1:AB:224:GLN:OE1	2.44	0.50
1:BB:212:GLY:O	1:BB:213:PHE:HB2	2.12	0.50
1:BG:152:VAL:HG12	1:BG:152:VAL:O	2.11	0.50
1:BO:231:GLU:OE1	1:BO:298:ARG:NH2	2.45	0.50
1:BR:152:VAL:HG13	1:BR:155:LEU:HB2	1.94	0.50
1:BY:64:VAL:O	1:BY:64:VAL:HG12	2.12	0.50
1:CE:25:VAL:HG23	1:CE:25:VAL:O	2.12	0.50
1:CG:144:THR:OG1	1:CG:146:SER:OG	2.24	0.50
1:CH:215:GLU:HB2	1:CH:248:LEU:HD21	1.94	0.50
1:CJ:73:GLU:O	1:CY:116:LYS:NZ	2.45	0.50
1:CR:25:VAL:HG13	1:CR:25:VAL:O	2.11	0.50
1:DD:137:VAL:O	1:DD:137:VAL:HG12	2.12	0.50
1:DM:323:LYS:NZ	1:DO:71:ASP:OD1	2.44	0.50
1:DN:136:ASP:OD1	1:DN:137:VAL:N	2.45	0.50
3:DU:35:ILE:HB	3:DU:36:PRO:HD3	1.93	0.50
3:DV:26:ARG:CG	4:DW:969:SER:OG	2.59	0.50
5:DX:86:ARG:HH12	5:DZ:87:LEU:C	2.14	0.50
7:ED:456:LEU:HD23	7:EE:438:MET:SD	2.52	0.50
1:AP:215:GLU:O	1:AP:216:ALA:HB3	2.12	0.50
1:AS:30:ASP:OD2	1:AS:30:ASP:N	2.45	0.50
1:AT:15:LYS:NZ	1:AW:141:GLN:O	2.32	0.50
1:BY:23:ILE:HG22	1:BZ:50:GLN:HG3	1.92	0.50
1:CF:87:LEU:CB	1:CF:120:ILE:HD11	2.41	0.50
1:CP:122:ARG:NH1	1:CT:55:ALA:O	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DP:83:VAL:O	1:DP:164:THR:OG1	2.18	0.50
2:DR:20:ASP:HA	4:DW:856:VAL:HG12	1.93	0.50
3:DV:175:ILE:CD1	5:DY:15:VAL:C	2.80	0.50
1:AM:27:SER:OG	1:AP:192:ASP:OD2	2.29	0.50
1:AM:205:SER:OG	1:AM:214:ASP:OD1	2.26	0.50
1:AP:13:ASN:H	1:CS:105:ARG:NH1	1.89	0.50
1:AP:13:ASN:CB	1:CS:105:ARG:HH22	2.25	0.50
1:AS:73:GLU:HG3	1:CS:4:PRO:CA	2.28	0.50
1:AW:101:ALA:H	1:BN:42:ILE:CB	2.23	0.50
1:BD:271:ASN:OD1	1:BD:272:SER:N	2.45	0.50
1:BF:144:THR:O	1:DM:144:THR:HB	2.12	0.50
1:BU:16:LYS:HE3	1:DP:102:ASN:OD1	2.03	0.50
1:BU:105:ARG:HD3	1:DP:15:LYS:HA	1.83	0.50
1:CA:149:ASP:N	1:CA:150:PRO:HD3	2.27	0.50
1:CH:50:GLN:NE2	1:CH:77:THR:OG1	2.45	0.50
1:CQ:255:SER:O	1:CQ:274:THR:HG21	2.12	0.50
3:DU:222:SER:OG	3:DU:223:GLY:N	2.44	0.50
6:EB:167:MET:O	6:EB:168:LYS:C	2.49	0.50
1:AB:30:ASP:O	1:AB:31:THR:OG1	2.28	0.49
1:AC:127:ILE:O	1:AC:130:SER:OG	2.16	0.49
1:AC:142:TYR:O	1:AC:145:ASN:ND2	2.45	0.49
1:AN:224:GLN:O	1:AN:227:THR:OG1	2.26	0.49
1:AO:8:VAL:HG23	1:AU:65:GLU:OE1	2.11	0.49
1:AP:102:ASN:O	1:CS:16:LYS:HB2	2.05	0.49
1:BF:308:ARG:HG2	1:DK:99:THR:HG21	1.94	0.49
1:BH:30:ASP:O	1:BH:31:THR:OG1	2.25	0.49
1:BI:99:THR:CB	1:DK:10:TYR:CG	2.76	0.49
1:BT:213:PHE:O	1:BT:214:ASP:HB2	2.10	0.49
1:BT:250:GLU:OE1	1:BT:258:ARG:NH2	2.43	0.49
1:BU:8:VAL:HB	1:DP:96:THR:OG1	2.12	0.49
1:BU:249:GLN:O	1:BU:256:ARG:NH1	2.45	0.49
1:CC:203:ASN:ND2	1:CC:346:ALA:O	2.42	0.49
1:CD:134:ARG:NE	1:CD:136:ASP:OD2	2.44	0.49
1:CK:30:ASP:OD1	1:CK:30:ASP:N	2.45	0.49
1:CM:90:VAL:HG11	1:CQ:70:GLU:O	2.12	0.49
1:CQ:291:THR:O	1:CQ:291:THR:HG22	2.11	0.49
1:DA:128:LEU:HB3	1:DA:332:LEU:HD11	1.93	0.49
1:DD:216:ALA:HB2	1:DD:248:LEU:HD21	1.93	0.49
1:DJ:257:LYS:NZ	1:DJ:274:THR:OG1	2.45	0.49
1:DO:305:MET:N	1:DO:331:GLY:O	2.44	0.49
2:DT:16:LEU:O	2:DT:18:PRO:HD3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DV:3:MET:N	3:DV:4:PRO:CD	2.75	0.49
3:DV:175:ILE:HG23	3:DV:176:ALA:N	2.26	0.49
5:DX:52:ILE:HD11	5:DZ:56:ILE:HD12	1.93	0.49
1:AM:101:ALA:H	1:CR:44:GLN:CD	2.03	0.49
1:AM:317:LYS:O	1:CV:68:ARG:NE	2.15	0.49
1:AO:27:SER:O	1:AO:29:GLN:NE2	2.44	0.49
1:AW:249:GLN:O	1:AW:256:ARG:NH1	2.45	0.49
1:BE:136:ASP:OD1	1:BE:137:VAL:N	2.44	0.49
1:BF:70:GLU:O	1:BI:90:VAL:HG11	2.11	0.49
1:CG:200:VAL:HG21	1:CG:343:LEU:HA	1.94	0.49
1:CM:136:ASP:OD1	1:CM:137:VAL:N	2.46	0.49
1:CU:49:TRP:NE1	1:CU:334:HIS:O	2.46	0.49
1:DC:143:LEU:CG	3:DV:84:LYS:HZ3	2.23	0.49
1:DL:171:CYS:SG	1:DL:172:ALA:N	2.86	0.49
1:DN:8:VAL:HG13	1:DN:8:VAL:O	2.12	0.49
3:DU:52:ILE:HB	3:DU:53:PRO:HD2	1.94	0.49
3:DU:53:PRO:O	3:DU:55:LEU:N	2.45	0.49
5:DY:69:MET:HA	5:DY:72:ASP:HB2	1.94	0.49
7:ED:474:HIS:ND1	7:EE:117:TYR:CE2	2.45	0.49
1:AF:271:ASN:OD1	1:AF:272:SER:N	2.45	0.49
1:AH:234:ILE:HG23	1:AH:284:ILE:HD12	1.93	0.49
1:AM:16:LYS:HZ2	1:CN:19:PHE:HD2	1.53	0.49
1:AP:96:THR:HA	1:CW:308:ARG:NH2	2.25	0.49
1:BG:218:ILE:O	1:BG:222:THR:HG23	2.11	0.49
1:BM:8:VAL:HG23	1:BS:65:GLU:OE1	2.11	0.49
1:BN:190:ASP:O	1:BN:194:GLY:N	2.43	0.49
1:BN:215:GLU:O	1:BN:216:ALA:HB3	2.13	0.49
1:BX:172:ALA:O	1:BX:198:VAL:HG21	2.12	0.49
1:BY:317:LYS:HG2	1:BY:318:ASP:H	1.78	0.49
1:CB:46:ILE:HD13	1:CB:142:TYR:HD1	1.77	0.49
1:CC:167:PHE:CD2	1:CC:181:VAL:HG23	2.48	0.49
1:CN:190:ASP:O	1:CN:194:GLY:N	2.41	0.49
1:DI:97:ALA:O	1:DI:100:THR:OG1	2.30	0.49
1:DN:40:GLU:OE1	1:DN:333:ARG:NH1	2.45	0.49
3:DU:145:LEU:O	3:DU:146:ILE:C	2.50	0.49
5:DX:74:GLU:HG2	5:DZ:77:LYS:HZ1	1.75	0.49
7:EE:533:ALA:HB2	7:EE:568:LEU:HD12	1.95	0.49
1:AF:190:ASP:OD1	1:AF:192:ASP:N	2.45	0.49
1:AH:65:GLU:OE2	1:BK:97:ALA:N	2.45	0.49
1:AP:92:ARG:NH2	1:CS:5:THR:HG22	2.27	0.49
1:AP:148:ALA:CA	1:CR:143:LEU:HA	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:104:GLY:HA2	1:BK:16:LYS:CE	2.13	0.49
1:AZ:78:VAL:HG12	1:AZ:79:ILE:H	1.77	0.49
1:BG:30:ASP:O	1:BG:31:THR:OG1	2.28	0.49
1:BM:213:PHE:HB3	1:BM:244:ILE:HG21	1.95	0.49
1:CF:77:THR:O	1:CL:13:ASN:ND2	2.41	0.49
1:CQ:8:VAL:O	1:CQ:8:VAL:HG13	2.12	0.49
1:CW:158:THR:O	1:CW:158:THR:HG22	2.12	0.49
1:DB:334:HIS:NE2	1:DB:336:ASN:O	2.46	0.49
1:DC:143:LEU:C	3:DV:85:ASP:OD2	2.51	0.49
1:DD:190:ASP:O	1:DD:194:GLY:N	2.45	0.49
1:DL:141:GLN:O	1:DL:144:THR:HG22	2.13	0.49
2:DR:22:ASP:C	4:DW:856:VAL:HG22	2.31	0.49
3:DU:13:TYR:HE1	3:DU:17:LYS:HZ3	1.60	0.49
4:DW:215:LEU:HD21	4:DW:232:ALA:HB2	1.95	0.49
5:DY:81:LYS:HA	5:DZ:80:PHE:CE1	2.39	0.49
7:ED:384:ARG:O	7:ED:385:ARG:C	2.49	0.49
1:AO:305:MET:SD	1:AO:305:MET:N	2.85	0.49
1:AP:79:ILE:HD11	1:CN:13:ASN:HB2	1.94	0.49
1:AP:215:GLU:OE1	1:AP:256:ARG:NH2	2.41	0.49
1:AW:215:GLU:HG2	1:AW:244:ILE:HG23	1.94	0.49
1:BA:96:THR:O	1:BA:99:THR:OG1	2.28	0.49
1:BI:49:TRP:NE1	1:BI:334:HIS:O	2.46	0.49
1:BI:92:ARG:O	1:DK:6:LEU:CD1	2.27	0.49
1:BI:312:ARG:O	1:DP:317:LYS:NZ	2.45	0.49
1:BW:71:ASP:OD1	1:BW:72:GLY:N	2.43	0.49
1:CG:98:ASN:O	1:CG:99:THR:OG1	2.26	0.49
1:CH:129:LEU:HD13	1:CH:289:MET:HG2	1.94	0.49
1:CJ:275:ASP:OD1	1:CJ:279:GLN:N	2.42	0.49
1:CK:96:THR:O	1:CK:97:ALA:HB3	2.13	0.49
1:CL:315:LEU:HD11	1:CL:325:MET:HB2	1.93	0.49
1:CO:103:TYR:O	1:CS:50:GLN:NE2	2.45	0.49
1:CO:136:ASP:OD1	1:CO:137:VAL:N	2.43	0.49
1:CS:123:ASP:O	1:CS:127:ILE:HD12	2.12	0.49
1:CU:199:LYS:NZ	1:CU:220:ASP:OD2	2.25	0.49
1:DF:84:THR:HG22	1:DF:85:GLN:H	1.76	0.49
1:DJ:45:THR:OG1	1:DJ:162:ARG:NH2	2.46	0.49
2:DR:10:ILE:O	2:DR:10:ILE:HG22	2.12	0.49
5:DY:67:VAL:CA	5:DY:70:LYS:HB3	2.39	0.49
7:ED:336:ILE:CA	7:EE:125:GLN:HE22	2.24	0.49
1:AM:101:ALA:C	1:CR:44:GLN:HE22	2.12	0.49
1:AM:224:GLN:O	1:AM:227:THR:OG1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:231:GLU:OE1	1:AQ:298:ARG:NH2	2.45	0.49
1:AS:144:THR:CB	1:CW:142:TYR:C	2.78	0.49
1:AV:131:GLY:O	1:AV:180:VAL:HG23	2.12	0.49
1:AW:100:THR:HG21	1:BN:45:THR:HA	1.92	0.49
1:BT:131:GLY:O	1:BT:180:VAL:HG23	2.12	0.49
1:BW:144:THR:O	1:BW:146:SER:N	2.46	0.49
1:CB:105:ARG:NH2	1:CM:13:ASN:O	2.44	0.49
1:CL:52:ASP:OD1	1:CL:53:ALA:N	2.45	0.49
1:CM:206:ASN:ND2	1:CM:214:ASP:OD1	2.45	0.49
1:CO:116:LYS:NZ	1:CS:73:GLU:O	2.39	0.49
3:DU:91:VAL:O	3:DU:92:THR:HG23	2.13	0.49
3:DV:72:PRO:HG2	5:DY:28:TYR:CZ	2.47	0.49
3:DV:171:THR:HG23	3:DV:172:ILE:N	2.27	0.49
3:DV:193:GLN:OE1	3:DV:193:GLN:N	2.41	0.49
1:AK:223:LEU:O	1:AK:227:THR:OG1	2.24	0.49
1:AM:97:ALA:HB3	1:CN:9:SER:CB	2.32	0.49
1:AO:213:PHE:HB3	1:AO:244:ILE:HG21	1.95	0.49
1:BU:92:ARG:CB	1:DP:5:THR:C	2.81	0.49
1:CA:44:GLN:O	1:CA:46:ILE:N	2.45	0.49
1:CE:218:ILE:H	1:CE:218:ILE:HD12	1.78	0.49
1:CI:322:GLU:OE2	1:CI:324:TRP:NE1	2.45	0.49
1:CZ:157:ASP:O	1:CZ:158:THR:OG1	2.22	0.49
1:DG:50:GLN:O	1:DI:23:ILE:HD12	2.12	0.49
1:DH:46:ILE:O	1:DP:18:SER:OG	2.30	0.49
3:DU:172:ILE:O	3:DU:176:ALA:N	2.43	0.49
3:DU:230:ASN:ND2	7:EE:369:ASN:CG	2.63	0.49
4:DW:215:LEU:CD2	4:DW:232:ALA:CB	2.90	0.49
4:DW:334:ILE:HG13	4:DW:349:LEU:HD12	1.94	0.49
5:DX:86:ARG:HE	5:DX:86:ARG:HA	1.76	0.49
1:AC:306:VAL:HG13	1:AC:330:VAL:HG22	1.93	0.49
1:AP:76:PRO:HD3	1:CR:152:VAL:O	2.12	0.49
1:AP:79:ILE:HG21	1:CR:147:ALA:HB2	1.95	0.49
1:AT:30:ASP:N	1:AT:30:ASP:OD1	2.46	0.49
1:BB:49:TRP:NE1	1:BB:334:HIS:O	2.46	0.49
1:BU:3:ASN:CA	1:DP:115:LYS:NZ	2.74	0.49
1:BX:131:GLY:HA2	1:BX:180:VAL:HG13	1.95	0.49
1:BZ:233:ASP:C	1:BZ:234:ILE:HD12	2.33	0.49
1:CQ:213:PHE:HE1	1:CQ:345:THR:HG22	1.78	0.49
1:CU:42:ILE:HD13	1:CU:305:MET:SD	2.52	0.49
1:CV:213:PHE:CZ	1:CV:294:VAL:HG21	2.48	0.49
1:CW:211:ILE:HG23	1:CW:211:ILE:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CY:85:GLN:HB2	1:CY:164:THR:HG23	1.94	0.49
1:DI:82:ASN:ND2	1:DI:332:LEU:O	2.44	0.49
2:DR:13:LEU:HD23	2:DT:35:LYS:HE2	1.94	0.49
1:AD:132:GLN:HA	1:AD:180:VAL:HG12	1.94	0.49
1:AG:122:ARG:NH1	1:AM:192:ASP:OD1	2.46	0.49
1:AZ:196:VAL:N	1:AZ:224:GLN:OE1	2.44	0.49
1:BD:238:ASN:OD1	1:BD:240:ALA:N	2.39	0.49
1:BI:91:VAL:HG21	1:BI:113:LEU:HD23	1.95	0.49
1:BN:25:VAL:HG13	1:BQ:53:ALA:HB1	1.95	0.49
1:BN:254:GLY:O	1:BN:255:SER:OG	2.24	0.49
1:CJ:336:ASN:O	1:CJ:339:ALA:N	2.45	0.49
1:CO:125:GLU:OE2	1:CO:129:LEU:HD12	2.13	0.49
1:DD:30:ASP:O	1:DD:31:THR:OG1	2.27	0.49
1:DE:223:LEU:HA	1:DE:277:LEU:HD11	1.95	0.49
1:DK:223:LEU:HG	1:DK:277:LEU:HD11	1.95	0.49
1:DM:67:SER:OG	1:DM:70:GLU:OE2	2.27	0.49
1:DN:90:VAL:HG21	1:DP:70:GLU:O	2.13	0.49
4:DW:327:TRP:CZ2	4:DW:343:GLN:HG2	2.48	0.49
5:DX:52:ILE:HG22	5:DX:53:ASP:N	2.27	0.49
1:AB:206:ASN:ND2	1:AB:210:ASN:OD1	2.43	0.49
1:AK:49:TRP:NE1	1:AK:334:HIS:O	2.45	0.49
1:AP:18:SER:H	1:CS:103:TYR:HE1	1.60	0.49
1:AS:143:LEU:N	1:CW:143:LEU:C	2.65	0.49
1:AW:102:ASN:C	1:BN:43:ASN:CB	2.63	0.49
1:BA:27:SER:OG	1:BB:192:ASP:OD2	2.27	0.49
1:BA:142:TYR:O	1:BA:145:ASN:ND2	2.46	0.49
1:BI:192:ASP:OD1	1:BI:193:THR:N	2.44	0.49
1:BX:152:VAL:HG23	1:BX:152:VAL:O	2.13	0.49
1:BX:171:CYS:SG	1:BX:172:ALA:N	2.83	0.49
1:CC:176:LEU:HD23	1:CC:176:LEU:H	1.78	0.49
1:CE:224:GLN:O	1:CE:227:THR:OG1	2.29	0.49
1:CU:98:ASN:ND2	1:CU:108:GLU:OE1	2.42	0.49
1:DK:305:MET:O	1:DK:331:GLY:N	2.44	0.49
1:DO:64:VAL:HG12	1:DO:65:GLU:N	2.27	0.49
7:ED:24:TYR:CE2	7:EE:277:GLY:HA2	2.47	0.49
1:AD:49:TRP:NE1	1:AD:334:HIS:O	2.46	0.48
1:AM:36:MET:O	1:AM:299:SER:OG	2.31	0.48
1:BN:182:ASP:OD1	1:BN:183:LYS:N	2.46	0.48
1:BX:132:GLN:NE2	1:BX:164:THR:OG1	2.46	0.48
1:CC:304:GLN:OE1	1:CC:304:GLN:N	2.41	0.48
1:CD:132:GLN:NE2	1:CD:164:THR:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:105:ARG:NH2	1:CE:108:GLU:OE1	2.46	0.48
1:CJ:190:ASP:O	1:CJ:194:GLY:N	2.41	0.48
1:CS:269:GLU:OE2	1:CW:278:GLY:N	2.43	0.48
1:DK:11:ASP:OD1	1:DK:12:GLN:N	2.44	0.48
1:DK:237:ILE:HD11	1:DK:241:HIS:O	2.13	0.48
3:DU:131:ILE:HD13	3:DU:131:ILE:N	2.26	0.48
7:ED:628:GLU:HG2	7:EE:627:PHE:CE2	2.23	0.48
1:AP:108:GLU:O	1:CS:7:PHE:CE1	2.62	0.48
1:AV:250:GLU:OE1	1:AV:258:ARG:NH2	2.43	0.48
1:BF:234:ILE:CG2	1:BF:284:ILE:HD12	2.44	0.48
1:BI:148:ALA:HB2	1:DH:79:ILE:HD11	1.95	0.48
1:BQ:296:PHE:O	1:BQ:341:GLY:N	2.40	0.48
1:BS:305:MET:O	1:BS:331:GLY:N	2.45	0.48
1:BU:215:GLU:HG2	1:BU:244:ILE:HG23	1.94	0.48
1:BW:52:ASP:OD1	1:BW:52:ASP:N	2.46	0.48
1:BZ:33:PHE:O	1:BZ:37:THR:HG23	2.13	0.48
1:CK:112:GLN:OE1	1:CK:112:GLN:N	2.41	0.48
1:CQ:213:PHE:CD1	1:CQ:345:THR:HG22	2.48	0.48
1:CS:240:ALA:O	1:CS:243:LYS:NZ	2.45	0.48
1:CT:30:ASP:N	1:CT:30:ASP:OD1	2.46	0.48
1:DA:62:ALA:HB3	1:DE:161:ALA:HB1	1.95	0.48
1:DB:92:ARG:NH2	1:DB:94:SER:OG	2.45	0.48
1:DG:90:VAL:HG22	1:DG:325:MET:HB2	1.94	0.48
1:DI:196:VAL:HG23	1:DI:196:VAL:O	2.12	0.48
1:DJ:8:VAL:O	1:DJ:8:VAL:HG13	2.13	0.48
2:DS:23:TYR:CB	2:DS:25:TYR:CD1	2.96	0.48
1:AK:91:VAL:HG21	1:AK:113:LEU:HD23	1.95	0.48
1:AK:143:LEU:CD1	1:BN:147:ALA:O	2.50	0.48
1:AP:14:GLY:N	1:CS:105:ARG:NH1	2.61	0.48
1:AP:105:ARG:HB2	1:CS:12:GLN:CB	2.43	0.48
1:AP:182:ASP:OD1	1:AP:183:LYS:N	2.47	0.48
1:AP:271:ASN:OD1	1:AP:272:SER:N	2.46	0.48
1:BX:182:ASP:OD1	1:BX:183:LYS:N	2.46	0.48
1:BZ:180:VAL:HG22	1:BZ:181:VAL:N	2.28	0.48
1:BZ:196:VAL:O	1:BZ:196:VAL:HG22	2.13	0.48
1:BZ:334:HIS:NE2	1:BZ:336:ASN:O	2.46	0.48
1:CD:206:ASN:O	1:CD:349:LYS:N	2.45	0.48
1:CF:8:VAL:HG11	1:CW:108:GLU:OE2	2.12	0.48
1:CF:88:ARG:NH1	1:CF:327:GLU:OE2	2.42	0.48
1:CG:91:VAL:O	1:CG:91:VAL:HG12	2.13	0.48
1:CI:203:ASN:OD1	1:CI:348:GLY:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CN:33:PHE:O	1:CN:37:THR:HG23	2.14	0.48
1:CZ:172:ALA:HB3	1:CZ:198:VAL:HG23	1.95	0.48
3:DV:175:ILE:HA	5:DY:14:ASN:O	2.14	0.48
7:ED:32:ALA:O	7:EE:269:ARG:HG2	2.13	0.48
1:AB:78:VAL:HG12	1:AB:79:ILE:H	1.77	0.48
1:AI:30:ASP:O	1:AI:31:THR:OG1	2.28	0.48
1:AM:196:VAL:N	1:AM:224:GLN:OE1	2.43	0.48
1:AP:7:PHE:HD2	1:CS:112:GLN:NE2	2.11	0.48
1:BQ:203:ASN:ND2	1:BQ:210:ASN:OD1	2.47	0.48
1:CA:64:VAL:HG12	1:CA:65:GLU:N	2.28	0.48
1:CN:275:ASP:OD1	1:CN:279:GLN:N	2.46	0.48
1:CQ:92:ARG:NE	1:CU:71:ASP:OD1	2.46	0.48
1:CR:33:PHE:CD2	1:CR:129:LEU:HD21	2.48	0.48
1:CZ:93:VAL:HG21	1:CZ:109:LEU:HD13	1.95	0.48
1:DA:250:GLU:OE2	1:DA:258:ARG:NH1	2.46	0.48
1:DL:125:GLU:OE2	1:DL:286:ASN:ND2	2.45	0.48
1:DO:213:PHE:CD1	1:DO:218:ILE:HD11	2.48	0.48
1:DP:273:ILE:CG2	1:DP:283:ILE:HD11	2.42	0.48
6:EB:165:GLN:O	6:EB:166:TYR:C	2.51	0.48
1:AM:7:PHE:HE2	1:CN:108:GLU:HG2	1.75	0.48
1:AP:12:GLN:HB3	1:CS:105:ARG:NH1	2.26	0.48
1:AR:336:ASN:OD1	1:AR:338:TYR:N	2.43	0.48
1:AU:162:ARG:NH1	1:AU:329:GLU:OE2	2.47	0.48
1:BE:30:ASP:OD2	1:BE:287:ARG:NH2	2.45	0.48
1:BI:7:PHE:HZ	1:DM:69:ALA:O	1.96	0.48
1:BR:30:ASP:OD1	1:BR:30:ASP:N	2.46	0.48
1:BU:96:THR:O	1:DH:307:LEU:CD2	2.59	0.48
1:CA:135:THR:HG22	1:CA:135:THR:O	2.12	0.48
1:CI:82:ASN:ND2	1:CI:332:LEU:O	2.41	0.48
1:CK:308:ARG:NH2	1:CK:327:GLU:OE1	2.46	0.48
1:CQ:316:ALA:HB1	1:CT:316:ALA:HB2	1.94	0.48
1:CV:250:GLU:OE2	1:CY:256:ARG:NE	2.47	0.48
1:DK:262:ASN:HA	1:DM:267:ILE:HD11	1.95	0.48
3:DU:192:VAL:HG22	4:DW:1004:ARG:N	2.28	0.48
3:DV:32:VAL:CG2	3:DV:33:ASN:N	2.76	0.48
3:DV:171:THR:O	3:DV:174:THR:OG1	2.15	0.48
4:DW:837:PRO:O	4:DW:838:ILE:HG13	2.14	0.48
7:ED:625:THR:CG2	7:EE:624:ARG:HH12	2.27	0.48
1:AI:49:TRP:NE1	1:AI:334:HIS:O	2.47	0.48
1:AJ:50:GLN:NE2	1:AV:103:TYR:O	2.46	0.48
1:AP:141:GLN:HE22	1:CR:143:LEU:N	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:71:ASP:OD1	1:CS:4:PRO:HD3	2.12	0.48
1:AW:108:GLU:HB2	1:BK:7:PHE:CD2	2.43	0.48
1:BI:100:THR:H	1:DK:10:TYR:HA	1.79	0.48
1:BK:180:VAL:HG22	1:BK:181:VAL:H	1.79	0.48
1:BR:34:VAL:HG23	1:BR:125:GLU:OE1	2.13	0.48
1:BU:99:THR:HB	1:DH:307:LEU:HG	1.94	0.48
1:BZ:213:PHE:CD2	1:BZ:244:ILE:HG21	2.48	0.48
1:CR:87:LEU:CB	1:CR:120:ILE:HD11	2.43	0.48
1:CR:259:ILE:HD11	1:CV:259:ILE:HB	1.95	0.48
1:CV:213:PHE:HE1	1:CV:343:LEU:HD23	1.77	0.48
1:DB:235:ILE:O	1:DB:283:ILE:HD12	2.13	0.48
1:DB:317:LYS:O	1:DB:318:ASP:HB2	2.14	0.48
1:DC:180:VAL:HG22	1:DC:181:VAL:N	2.29	0.48
1:DL:95:ASP:O	1:DL:99:THR:OG1	2.30	0.48
1:DM:29:GLN:NE2	1:DM:31:THR:OG1	2.47	0.48
1:DN:235:ILE:HD11	1:DN:281:TYR:HD1	1.78	0.48
3:DU:195:ASP:O	3:DU:196:ASN:C	2.51	0.48
3:DV:94:PRO:HA	3:DV:97:ILE:HG22	1.94	0.48
7:ED:448:ASP:CG	7:EE:441:ASN:HD21	2.12	0.48
1:AA:60:ASN:O	1:AA:60:ASN:ND2	2.47	0.48
1:AH:234:ILE:CG2	1:AH:284:ILE:HD12	2.44	0.48
1:AM:102:ASN:HA	1:CN:14:GLY:O	2.12	0.48
1:AP:16:LYS:NZ	1:CS:103:TYR:HB2	2.29	0.48
1:BN:142:TYR:O	1:BN:145:ASN:ND2	2.44	0.48
1:CZ:88:ARG:NE	1:CZ:327:GLU:OE2	2.47	0.48
1:DB:312:ARG:NH1	7:ED:31:MET:HG3	2.28	0.48
1:DC:128:LEU:CD2	1:DC:332:LEU:HD21	2.43	0.48
1:DD:305:MET:N	1:DD:331:GLY:O	2.45	0.48
1:DG:275:ASP:OD1	1:DG:279:GLN:N	2.47	0.48
1:DQ:134:ARG:NE	1:DQ:142:TYR:OH	2.46	0.48
3:DV:137:TYR:HD1	5:DY:37:ASP:OD1	1.97	0.48
4:DW:295:SER:OG	4:DW:314:THR:OG1	2.18	0.48
5:DY:49:PHE:CD1	5:DZ:48:LYS:HB3	2.49	0.48
1:AH:202:GLN:NE2	1:AH:216:ALA:O	2.47	0.48
1:AN:90:VAL:HG11	1:AQ:70:GLU:O	2.14	0.48
1:AY:271:ASN:OD1	1:AY:272:SER:N	2.47	0.48
1:BH:50:GLN:NE2	1:BT:103:TYR:O	2.46	0.48
1:BX:10:TYR:OH	1:CC:162:ARG:NH2	2.47	0.48
1:CA:118:LYS:CB	1:CB:54:LEU:HD21	2.44	0.48
1:CB:182:ASP:OD1	1:CB:183:LYS:N	2.47	0.48
1:CD:137:VAL:HG22	1:CD:162:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:16:LYS:HB2	3:DV:234:ARG:HD3	1.95	0.48
2:DT:23:TYR:N	4:DW:838:ILE:HA	2.29	0.48
3:DV:124:ARG:CZ	5:DZ:28:TYR:CD2	2.79	0.48
7:ED:533:ALA:HB2	7:ED:568:LEU:HD12	1.95	0.48
1:AE:213:PHE:O	1:AE:244:ILE:HG21	2.14	0.48
1:AJ:136:ASP:OD1	1:AJ:137:VAL:N	2.46	0.48
1:AW:213:PHE:HD2	1:AW:244:ILE:HD13	1.79	0.48
1:BB:132:GLN:HA	1:BB:180:VAL:HG12	1.94	0.48
1:BV:263:THR:OG1	1:BV:265:GLN:O	2.31	0.48
1:BY:235:ILE:HG23	1:BY:296:PHE:CE1	2.49	0.48
1:DD:176:LEU:H	1:DD:176:LEU:HD23	1.78	0.48
1:DE:305:MET:O	1:DE:331:GLY:N	2.45	0.48
1:DH:211:ILE:O	1:DH:211:ILE:HG13	2.14	0.48
1:DJ:236:MET:O	1:DJ:294:VAL:HG23	2.13	0.48
1:DQ:81:SER:O	1:DQ:134:ARG:NH2	2.47	0.48
4:DW:305:ARG:HA	4:DW:347:ASN:OD1	2.13	0.48
4:DW:961:THR:HG23	4:DW:961:THR:O	2.14	0.48
1:AA:271:ASN:OD1	1:AA:272:SER:N	2.47	0.48
1:AP:144:THR:HG21	1:CR:141:GLN:HG3	0.70	0.48
1:AT:34:VAL:HG23	1:AT:125:GLU:OE1	2.14	0.48
1:BB:306:VAL:HG12	1:BB:330:VAL:CG1	2.43	0.48
1:BI:146:SER:C	1:DH:143:LEU:CD1	2.72	0.48
1:BZ:275:ASP:OD1	1:BZ:279:GLN:N	2.47	0.48
1:CD:152:VAL:O	1:CD:152:VAL:HG22	2.14	0.48
1:CF:152:VAL:HG12	1:CF:152:VAL:O	2.14	0.48
1:CS:45:THR:HG21	1:CS:162:ARG:HH12	1.79	0.48
5:DY:65:GLN:O	5:DY:68:LEU:HB2	2.14	0.48
7:ED:410:HIS:HE2	7:EE:374:ARG:N	1.99	0.48
7:ED:410:HIS:N	7:EE:406:LEU:CD1	2.76	0.48
1:AH:56:SER:OG	1:AH:57:VAL:N	2.47	0.47
1:AK:140:ASP:O	1:BN:144:THR:HG21	2.13	0.47
1:AS:203:ASN:ND2	1:AS:210:ASN:OD1	2.47	0.47
1:AZ:30:ASP:O	1:AZ:31:THR:OG1	2.27	0.47
1:BE:122:ARG:NH1	1:BK:192:ASP:OD1	2.46	0.47
1:BL:90:VAL:HG11	1:BO:70:GLU:O	2.14	0.47
1:BP:90:VAL:HG11	1:BS:69:ALA:HB1	1.96	0.47
1:BU:16:LYS:CE	1:DP:102:ASN:OD1	2.61	0.47
1:BU:92:ARG:HB3	1:DP:5:THR:C	2.35	0.47
1:CD:91:VAL:HG12	1:CD:324:TRP:HB2	1.95	0.47
1:CE:213:PHE:HD1	1:CE:218:ILE:HD11	1.78	0.47
1:CM:171:CYS:SG	1:CM:340:SER:OG	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CP:295:TYR:CD1	1:CP:342:VAL:HG22	2.49	0.47
1:CR:122:ARG:NH1	1:CV:57:VAL:HG13	2.29	0.47
1:DB:288:TRP:CZ3	1:DC:57:VAL:HG11	2.49	0.47
1:DM:12:GLN:O	1:DO:145:ASN:ND2	2.46	0.47
1:DP:184:THR:O	1:DP:184:THR:HG22	2.13	0.47
2:DR:66:THR:H	2:DR:70:MET:HE1	1.79	0.47
3:DV:52:ILE:HB	3:DV:53:PRO:CD	2.43	0.47
3:DV:94:PRO:HG3	3:DV:121:PHE:CE1	2.49	0.47
7:ED:467:MET:CE	7:EE:72:LEU:HD21	2.36	0.47
1:AF:95:ASP:OD2	1:AQ:308:ARG:NH1	2.47	0.47
1:AK:142:TYR:C	1:BN:144:THR:CA	2.60	0.47
1:AQ:30:ASP:OD2	1:AQ:30:ASP:N	2.47	0.47
1:AS:77:THR:C	1:CW:149:ASP:O	2.44	0.47
1:AS:79:ILE:HG13	1:CW:148:ALA:HB1	1.25	0.47
1:BD:95:ASP:OD2	1:BO:308:ARG:NH1	2.47	0.47
1:BW:199:LYS:NZ	1:BW:220:ASP:OD1	2.47	0.47
1:BX:73:GLU:O	1:CB:116:LYS:NZ	2.41	0.47
1:BX:342:VAL:HG11	1:BX:344:PHE:CE1	2.50	0.47
1:BY:156:ASN:OD1	1:CC:3:ASN:ND2	2.47	0.47
1:DH:158:THR:O	1:DH:158:THR:HG22	2.14	0.47
1:DH:261:GLU:N	1:DH:268:TYR:O	2.47	0.47
3:DU:70:ILE:HD12	3:DU:123:SER:C	2.35	0.47
3:DU:83:ALA:C	5:DZ:25:ILE:HB	2.32	0.47
6:EB:113:PRO:C	6:EB:115:VAL:N	2.63	0.47
7:ED:301:LYS:CA	7:EE:283:ILE:HG22	2.43	0.47
7:ED:407:PHE:HE1	7:EE:375:TYR:CZ	2.32	0.47
7:ED:471:ASN:N	7:EE:117:TYR:OH	2.47	0.47
1:AI:30:ASP:N	1:AI:30:ASP:OD1	2.47	0.47
1:AO:235:ILE:N	1:AO:282:LYS:O	2.45	0.47
1:AS:156:ASN:HD22	1:CS:92:ARG:HD3	1.76	0.47
1:AT:131:GLY:C	1:AT:180:VAL:HG23	2.34	0.47
1:AW:215:GLU:HG2	1:AW:244:ILE:CG2	2.45	0.47
1:AY:215:GLU:HB2	1:AY:248:LEU:CD1	2.44	0.47
1:BC:305:MET:O	1:BC:331:GLY:N	2.46	0.47
1:BN:49:TRP:NE1	1:BN:334:HIS:O	2.47	0.47
1:BN:271:ASN:OD1	1:BN:272:SER:N	2.47	0.47
1:BU:100:THR:HG23	1:DH:307:LEU:HA	1.96	0.47
1:BW:176:LEU:HD23	1:BW:176:LEU:O	2.14	0.47
1:CZ:8:VAL:HG12	1:CZ:9:SER:N	2.28	0.47
1:DA:252:THR:HG22	1:DA:253:GLN:N	2.30	0.47
1:DE:30:ASP:O	1:DE:31:THR:OG1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DO:30:ASP:O	1:DO:31:THR:OG1	2.23	0.47
1:DO:197:THR:OG1	1:DO:340:SER:O	2.31	0.47
2:DR:21:ARG:HD3	4:DW:859:LYS:HA	1.95	0.47
2:DR:87:LYS:H	2:DR:87:LYS:HD2	1.79	0.47
5:DZ:67:VAL:HG12	5:DZ:68:LEU:N	2.29	0.47
1:AE:305:MET:O	1:AE:331:GLY:N	2.46	0.47
1:AP:13:ASN:CB	1:CW:77:THR:O	2.35	0.47
1:BB:88:ARG:NH2	1:BC:70:GLU:OE2	2.45	0.47
1:BP:83:VAL:HG22	1:BP:84:THR:H	1.79	0.47
1:BQ:224:GLN:O	1:BQ:227:THR:OG1	2.26	0.47
1:BU:215:GLU:HG2	1:BU:244:ILE:CG2	2.45	0.47
1:BX:334:HIS:NE2	1:BX:336:ASN:O	2.47	0.47
1:DM:37:THR:HG22	1:DM:37:THR:O	2.14	0.47
1:DN:305:MET:N	1:DN:305:MET:SD	2.88	0.47
1:DO:210:ASN:OD1	1:DO:211:ILE:N	2.47	0.47
3:DV:54:PRO:HA	5:DY:20:ALA:O	2.15	0.47
1:AD:306:VAL:HG12	1:AD:330:VAL:CG1	2.43	0.47
1:AI:222:THR:OG1	1:AI:275:ASP:OD1	2.08	0.47
1:BC:213:PHE:O	1:BC:244:ILE:HG21	2.14	0.47
1:BF:28:PRO:O	1:BF:122:ARG:NH2	2.47	0.47
1:BG:215:GLU:HG2	1:BG:248:LEU:HD22	1.97	0.47
1:BG:288:TRP:CZ3	1:BM:57:VAL:HG11	2.49	0.47
1:BH:157:ASP:OD1	1:BH:157:ASP:N	2.48	0.47
1:BI:109:LEU:HD13	1:DK:7:PHE:CD2	2.49	0.47
1:BU:14:GLY:CA	1:DP:102:ASN:OD1	2.63	0.47
1:CC:30:ASP:O	1:CC:31:THR:OG1	2.27	0.47
1:CC:97:ALA:O	1:CC:100:THR:OG1	2.32	0.47
1:CG:231:GLU:O	1:CG:232:ALA:HB3	2.13	0.47
1:CG:275:ASP:OD1	1:CG:279:GLN:N	2.48	0.47
1:CI:200:VAL:O	1:CI:200:VAL:HG13	2.14	0.47
1:CL:102:ASN:N	1:CL:108:GLU:OE1	2.46	0.47
1:DB:39:LYS:HG2	7:ED:16:VAL:HG22	1.95	0.47
1:DH:326:ILE:HG23	1:DH:326:ILE:O	2.14	0.47
1:DN:124:LEU:HA	1:DN:127:ILE:HG22	1.95	0.47
2:DR:87:LYS:HD2	2:DR:87:LYS:N	2.30	0.47
3:DU:45:GLU:HA	3:DU:48:ARG:NH1	2.29	0.47
5:DY:81:LYS:O	5:DY:85:ALA:N	2.40	0.47
7:ED:94:GLN:NE2	7:EE:502:ARG:HG3	2.28	0.47
1:AS:78:VAL:O	1:CW:147:ALA:O	2.33	0.47
1:AS:146:SER:C	1:CW:79:ILE:HB	2.35	0.47
1:AX:263:THR:OG1	1:AX:265:GLN:O	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:202:GLN:NE2	1:BF:216:ALA:O	2.47	0.47
1:BX:93:VAL:HG21	1:BX:109:LEU:HD23	1.95	0.47
1:BY:171:CYS:SG	1:BY:342:VAL:HG23	2.55	0.47
1:CZ:273:ILE:HG22	1:CZ:274:THR:N	2.30	0.47
1:DE:202:GLN:OE1	1:DE:202:GLN:N	2.46	0.47
1:DE:306:VAL:HG23	1:DE:306:VAL:O	2.14	0.47
5:DX:82:ASP:OD1	5:DX:82:ASP:N	2.48	0.47
5:DY:75:ASP:HA	5:DY:78:GLN:HB2	1.97	0.47
7:ED:397:GLU:O	7:ED:398:MET:C	2.52	0.47
1:AF:95:ASP:OD1	1:AF:96:THR:N	2.47	0.47
1:AO:308:ARG:NH1	1:AO:327:GLU:OE1	2.43	0.47
1:AP:25:VAL:HG13	1:AS:53:ALA:HB1	1.95	0.47
1:AR:90:VAL:HG11	1:AU:69:ALA:HB1	1.96	0.47
1:AS:142:TYR:O	1:CW:145:ASN:OD1	2.33	0.47
1:AY:60:ASN:O	1:AY:60:ASN:ND2	2.47	0.47
1:BD:95:ASP:OD1	1:BD:96:THR:N	2.47	0.47
1:BF:56:SER:OG	1:BF:57:VAL:N	2.47	0.47
1:BF:202:GLN:NE2	1:BF:215:GLU:HB2	2.29	0.47
1:BG:30:ASP:OD1	1:BG:30:ASP:N	2.48	0.47
1:BI:100:THR:OG1	1:DK:12:GLN:HB2	2.14	0.47
1:BI:144:THR:HA	1:DH:143:LEU:HA	1.97	0.47
1:BP:171:CYS:SG	1:BP:340:SER:OG	2.62	0.47
1:BU:100:THR:HG22	1:DH:42:ILE:H	1.18	0.47
1:BW:208:THR:HG22	1:BW:208:THR:O	2.15	0.47
1:CA:142:TYR:HA	1:CA:146:SER:HA	1.97	0.47
1:CB:83:VAL:O	1:CB:164:THR:HG22	2.14	0.47
1:CC:90:VAL:HG12	1:CC:325:MET:SD	2.55	0.47
1:CG:42:ILE:O	1:CG:307:LEU:HD12	2.15	0.47
1:CI:203:ASN:OD1	1:CI:204:ALA:N	2.46	0.47
1:CK:25:VAL:HG12	1:CK:26:LEU:N	2.30	0.47
1:CS:180:VAL:HG22	1:CS:181:VAL:N	2.30	0.47
1:CU:113:LEU:HD22	1:CU:312:ARG:HG2	1.96	0.47
1:CV:336:ASN:O	1:CV:339:ALA:N	2.43	0.47
1:CX:85:GLN:HB2	1:CX:164:THR:HG23	1.96	0.47
1:CZ:152:VAL:HG23	1:CZ:152:VAL:O	2.14	0.47
1:DB:83:VAL:HG12	1:DB:84:THR:N	2.30	0.47
1:DD:124:LEU:HD11	1:DD:330:VAL:HG21	1.96	0.47
1:DF:130:SER:OG	1:DF:131:GLY:N	2.47	0.47
1:DM:155:LEU:H	1:DM:155:LEU:HD23	1.80	0.47
1:DP:70:GLU:OE1	1:DP:70:GLU:N	2.47	0.47
2:DR:24:ILE:HB	4:DW:857:TRP:HE1	1.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DV:72:PRO:HG2	5:DY:28:TYR:CD2	2.49	0.47
5:DZ:79:ASP:O	5:DZ:83:GLN:CG	2.62	0.47
1:AA:215:GLU:HB2	1:AA:248:LEU:CD1	2.44	0.47
1:AP:306:VAL:HG12	1:AP:330:VAL:HG12	1.97	0.47
1:AW:16:LYS:CG	1:BK:103:TYR:CG	2.75	0.47
1:AW:145:ASN:O	1:AW:145:ASN:ND2	2.48	0.47
1:BI:55:ALA:O	1:BU:122:ARG:NH1	2.48	0.47
1:BI:146:SER:H	1:DH:143:LEU:CD1	2.27	0.47
1:BO:30:ASP:OD2	1:BO:30:ASP:N	2.47	0.47
1:BS:162:ARG:NH1	1:BS:329:GLU:OE2	2.47	0.47
1:CB:91:VAL:HG11	1:CB:113:LEU:HD12	1.96	0.47
1:CL:32:PRO:O	1:CL:35:SER:N	2.46	0.47
1:CQ:95:ASP:OD2	1:CT:308:ARG:NH2	2.48	0.47
1:CZ:176:LEU:HD23	1:CZ:181:VAL:HG13	1.95	0.47
1:DK:208:THR:O	1:DK:208:THR:HG22	2.15	0.47
1:DK:237:ILE:HD12	1:DK:245:PHE:CE2	2.49	0.47
3:DU:52:ILE:HB	3:DU:53:PRO:CD	2.45	0.47
3:DV:52:ILE:HB	3:DV:53:PRO:HD2	1.97	0.47
1:AI:288:TRP:CZ3	1:AO:57:VAL:HG11	2.49	0.47
1:AJ:25:VAL:HG13	1:AJ:26:LEU:N	2.30	0.47
1:AW:105:ARG:HD2	1:BK:15:LYS:HA	0.79	0.47
1:BA:180:VAL:HG22	1:BA:181:VAL:H	1.80	0.47
1:BH:36:MET:O	1:BH:37:THR:OG1	2.27	0.47
1:BI:76:PRO:HG3	1:DP:13:ASN:HB3	1.30	0.47
1:BI:144:THR:C	1:DP:17:LEU:HD12	2.34	0.47
1:BK:30:ASP:O	1:BK:31:THR:OG1	2.33	0.47
1:BL:196:VAL:N	1:BL:224:GLN:OE1	2.48	0.47
1:BL:211:ILE:HG22	1:BL:212:GLY:N	2.30	0.47
1:BR:131:GLY:C	1:BR:180:VAL:HG23	2.34	0.47
1:BW:184:THR:HG23	1:BW:185:LYS:N	2.30	0.47
1:CJ:231:GLU:OE1	1:CJ:231:GLU:N	2.48	0.47
1:CL:131:GLY:O	1:CL:181:VAL:HG23	2.15	0.47
1:CM:328:MET:HG2	1:CM:330:VAL:HG13	1.96	0.47
1:CV:318:ASP:OD1	1:CV:318:ASP:N	2.48	0.47
1:DC:45:THR:O	1:DC:84:THR:OG1	2.25	0.47
1:DD:42:ILE:HG22	1:DD:307:LEU:O	2.15	0.47
1:DD:64:VAL:HG12	1:DD:65:GLU:N	2.29	0.47
1:DJ:199:LYS:O	1:DJ:343:LEU:HD23	2.15	0.47
1:DO:9:SER:OG	1:DQ:162:ARG:NH1	2.47	0.47
5:DZ:88:MET:CA	5:DZ:91:ILE:HD12	2.37	0.47
6:EB:83:ILE:O	6:EB:84:THR:C	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:180:VAL:HG22	1:AC:181:VAL:H	1.80	0.47
1:AH:28:PRO:O	1:AH:122:ARG:NH2	2.47	0.47
1:AH:202:GLN:NE2	1:AH:215:GLU:HB2	2.29	0.47
1:AR:290:PRO:O	1:AR:291:THR:HG22	2.15	0.47
1:AU:305:MET:O	1:AU:331:GLY:N	2.45	0.47
1:CG:303:THR:OG1	1:CG:305:MET:SD	2.55	0.47
1:CV:85:GLN:NE2	1:CY:61:ASN:O	2.47	0.47
1:CV:136:ASP:OD2	1:CV:136:ASP:N	2.48	0.47
1:DH:52:ASP:OD1	1:DH:53:ALA:N	2.46	0.47
1:DI:168:GLN:OE1	1:DI:168:GLN:N	2.48	0.47
1:DQ:214:ASP:OD1	1:DQ:215:GLU:N	2.45	0.47
2:DR:214:ASN:H	2:DT:229:ASP:H	1.61	0.47
2:DS:28:ALA:HB1	2:DT:19:ARG:HH11	1.80	0.47
1:AK:55:ALA:O	1:AW:122:ARG:NH1	2.48	0.46
1:AM:180:VAL:HG22	1:AM:181:VAL:H	1.79	0.46
1:AS:141:GLN:NE2	1:CW:141:GLN:OE1	2.46	0.46
1:AW:7:PHE:CB	1:BK:93:VAL:CB	2.93	0.46
1:BC:190:ASP:O	1:BC:194:GLY:N	2.48	0.46
1:BH:222:THR:HG22	1:BH:281:TYR:CZ	2.50	0.46
1:BM:235:ILE:N	1:BM:282:LYS:O	2.45	0.46
1:BZ:124:LEU:HD13	1:BZ:330:VAL:HG21	1.97	0.46
1:CH:53:ALA:HA	1:CX:25:VAL:HG23	1.97	0.46
1:CI:235:ILE:HG23	1:CI:296:PHE:HE1	1.80	0.46
1:CO:290:PRO:O	1:CO:291:THR:HG22	2.15	0.46
1:CT:315:LEU:HD11	1:CT:325:MET:HB2	1.96	0.46
1:CU:235:ILE:HG23	1:CU:296:PHE:CE1	2.50	0.46
1:DA:46:ILE:HG12	1:DA:83:VAL:HG12	1.96	0.46
1:DK:30:ASP:O	1:DK:31:THR:OG1	2.32	0.46
1:DM:71:ASP:OD1	1:DM:72:GLY:N	2.48	0.46
2:DT:23:TYR:H	4:DW:838:ILE:HA	1.80	0.46
4:DW:334:ILE:HA	4:DW:349:LEU:HB2	1.97	0.46
4:DW:472:VAL:HG22	4:DW:506:LYS:HA	1.98	0.46
4:DW:845:ILE:HG22	4:DW:846:THR:N	2.30	0.46
7:ED:552:LEU:HD23	7:EE:578:LEU:CA	2.44	0.46
1:AI:215:GLU:HG2	1:AI:248:LEU:HD22	1.97	0.46
1:AJ:83:VAL:O	1:AJ:164:THR:HG22	2.15	0.46
1:BG:49:TRP:NE1	1:BG:334:HIS:O	2.47	0.46
1:BI:9:SER:HB3	1:DK:95:ASP:HA	1.43	0.46
1:BI:95:ASP:OD1	1:BI:96:THR:N	2.47	0.46
1:BU:145:ASN:O	1:BU:145:ASN:ND2	2.48	0.46
1:BW:213:PHE:CD1	1:BW:343:LEU:HD23	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CI:141:GLN:O	1:CI:144:THR:HG22	2.16	0.46
1:CI:157:ASP:O	1:CI:158:THR:OG1	2.26	0.46
1:CV:308:ARG:NH2	1:CV:327:GLU:OE2	2.48	0.46
1:CW:57:VAL:HG23	1:CW:57:VAL:O	2.16	0.46
1:DC:52:ASP:OD2	1:DC:53:ALA:N	2.48	0.46
1:DF:245:PHE:O	1:DF:248:LEU:HD22	2.15	0.46
1:DF:263:THR:HG22	1:DF:265:GLN:H	1.80	0.46
3:DU:8:TYR:HA	3:DV:37:ASN:ND2	2.30	0.46
5:DX:79:ASP:O	5:DX:82:ASP:OD1	2.34	0.46
7:EE:397:GLU:O	7:EE:398:MET:C	2.52	0.46
1:AP:49:TRP:NE1	1:AP:334:HIS:O	2.47	0.46
1:BH:83:VAL:O	1:BH:164:THR:HG22	2.15	0.46
1:BI:223:LEU:O	1:BI:227:THR:OG1	2.24	0.46
1:CE:170:LEU:HD23	1:CE:334:HIS:HB2	1.96	0.46
1:CE:313:THR:OG1	1:CE:325:MET:O	2.32	0.46
1:CG:30:ASP:OD2	1:CG:30:ASP:N	2.47	0.46
1:CK:25:VAL:HG12	1:CK:26:LEU:H	1.80	0.46
1:CN:9:SER:N	1:CV:65:GLU:OE1	2.48	0.46
1:CV:64:VAL:HG12	1:CV:65:GLU:N	2.30	0.46
1:CY:302:TRP:HE1	1:CY:340:SER:HG	1.64	0.46
1:DI:152:VAL:HG12	1:DI:159:HIS:CE1	2.51	0.46
1:DK:336:ASN:OD1	1:DK:338:TYR:N	2.48	0.46
3:DU:82:ARG:HA	3:DU:152:VAL:HA	1.97	0.46
7:ED:131:ARG:NH2	7:EE:269:ARG:HH22	2.06	0.46
7:ED:301:LYS:HE2	7:EE:282:ASP:OD1	2.16	0.46
7:ED:655:THR:O	7:ED:659:ARG:N	2.48	0.46
1:AK:95:ASP:OD1	1:AK:96:THR:N	2.47	0.46
1:AM:6:LEU:N	1:CR:74:MET:HE2	2.30	0.46
1:AO:213:PHE:CB	1:AO:244:ILE:HD13	2.46	0.46
1:AP:14:GLY:H	1:CS:105:ARG:NH1	2.12	0.46
1:AP:142:TYR:O	1:AP:145:ASN:ND2	2.44	0.46
1:AZ:133:ALA:HB1	1:AZ:176:LEU:HD22	1.97	0.46
1:BI:105:ARG:CA	1:DK:14:GLY:N	2.66	0.46
1:BI:243:LYS:O	1:BI:247:GLY:N	2.46	0.46
1:BU:8:VAL:HG23	1:DP:96:THR:HB	1.91	0.46
1:BX:54:LEU:HD22	1:CB:27:SER:CB	2.45	0.46
1:BZ:131:GLY:O	1:BZ:180:VAL:HG23	2.15	0.46
1:CB:213:PHE:CD1	1:CB:345:THR:HG22	2.50	0.46
1:CP:172:ALA:O	1:CP:198:VAL:HG21	2.14	0.46
1:CQ:52:ASP:OD1	1:CQ:53:ALA:N	2.41	0.46
1:CR:152:VAL:O	1:CR:152:VAL:HG22	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CS:64:VAL:HG12	1:CS:65:GLU:N	2.30	0.46
1:CS:259:ILE:HD12	1:CW:259:ILE:HD11	1.96	0.46
1:DG:54:LEU:HD13	1:DI:27:SER:CB	2.46	0.46
1:DI:236:MET:O	1:DI:294:VAL:HG13	2.15	0.46
2:DR:21:ARG:CD	4:DW:859:LYS:HA	2.37	0.46
2:DS:22:ASP:O	2:DS:23:TYR:HB2	2.13	0.46
3:DU:145:LEU:O	3:DU:147:PRO:N	2.48	0.46
4:DW:852:ILE:O	4:DW:852:ILE:HG13	2.15	0.46
7:ED:449:ASN:ND2	7:EE:441:ASN:OD1	2.49	0.46
1:AP:96:THR:HG21	1:CZ:64:VAL:HG12	1.96	0.46
1:AR:83:VAL:HG22	1:AR:84:THR:H	1.79	0.46
1:AU:30:ASP:OD1	1:AU:288:TRP:NE1	2.48	0.46
1:AV:65:GLU:HG3	1:CS:99:THR:HG21	1.98	0.46
1:AW:14:GLY:CA	1:BK:103:TYR:CD1	2.91	0.46
1:BH:25:VAL:HG13	1:BH:26:LEU:N	2.30	0.46
1:BN:290:PRO:O	1:BN:291:THR:HG22	2.16	0.46
1:BP:290:PRO:O	1:BP:291:THR:HG22	2.15	0.46
1:CB:85:GLN:HB2	1:CB:164:THR:HG23	1.98	0.46
1:CQ:303:THR:OG1	1:CQ:333:ARG:NH1	2.49	0.46
1:CV:58:ASP:OD1	1:CV:59:GLY:N	2.48	0.46
1:DB:238:ASN:OD1	1:DB:239:PRO:HD2	2.16	0.46
1:DN:213:PHE:CZ	1:DN:343:LEU:HD22	2.50	0.46
1:DP:192:ASP:OD1	1:DP:193:THR:N	2.48	0.46
2:DR:23:TYR:CZ	4:DW:853:LYS:HB2	2.50	0.46
2:DT:10:ILE:HG23	2:DT:37:THR:HB	1.98	0.46
3:DV:82:ARG:HA	3:DV:152:VAL:HA	1.97	0.46
7:EE:534:GLN:O	7:EE:537:ILE:HG13	2.16	0.46
1:AJ:36:MET:HG3	1:AJ:37:THR:HG23	1.98	0.46
1:AK:143:LEU:HD21	1:BN:146:SER:C	2.34	0.46
1:AY:259:ILE:HG23	1:BA:259:ILE:HG12	1.96	0.46
1:BL:60:ASN:ND2	1:BL:60:ASN:O	2.49	0.46
1:BM:334:HIS:HE2	1:BM:340:SER:HG	1.63	0.46
1:BP:143:LEU:H	1:BP:143:LEU:HD12	1.81	0.46
1:BS:30:ASP:OD1	1:BS:288:TRP:NE1	2.48	0.46
1:BT:67:SER:OG	1:BT:68:ARG:N	2.48	0.46
1:BU:213:PHE:HD2	1:BU:244:ILE:HD13	1.79	0.46
1:BZ:162:ARG:NH1	1:BZ:329:GLU:OE2	2.48	0.46
1:DA:88:ARG:NH2	1:DF:67:SER:O	2.49	0.46
1:DF:84:THR:HG22	1:DF:85:GLN:N	2.30	0.46
2:DT:27:GLY:HA3	4:DW:839:TRP:HZ2	1.80	0.46
4:DW:120:VAL:HG12	4:DW:121:SER:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EE:229:ARG:O	7:EE:287:VAL:N	2.48	0.46
1:AA:259:ILE:HG23	1:AC:259:ILE:HG12	1.97	0.46
1:AD:88:ARG:NH2	1:AE:70:GLU:OE2	2.45	0.46
1:AD:237:ILE:HD11	1:AD:241:HIS:ND1	2.31	0.46
1:AJ:157:ASP:OD1	1:AJ:157:ASP:N	2.48	0.46
1:AJ:222:THR:HG22	1:AJ:281:TYR:CZ	2.50	0.46
1:AM:16:LYS:CG	1:CN:102:ASN:C	2.78	0.46
1:AN:211:ILE:HG22	1:AN:212:GLY:N	2.30	0.46
1:AO:196:VAL:N	1:AO:224:GLN:OE1	2.48	0.46
1:AP:5:THR:HA	1:CW:74:MET:HE3	1.32	0.46
1:AP:147:ALA:N	1:CR:142:TYR:HB3	2.31	0.46
1:AW:49:TRP:NE1	1:AW:334:HIS:O	2.48	0.46
1:AZ:206:ASN:ND2	1:AZ:210:ASN:OD1	2.43	0.46
1:BH:136:ASP:OD1	1:BH:137:VAL:N	2.47	0.46
1:BI:92:ARG:NH2	1:DK:6:LEU:HD21	2.04	0.46
1:BO:195:ALA:HB2	1:BO:227:THR:HG23	1.98	0.46
1:BT:252:THR:CB	1:BT:255:SER:HG	2.27	0.46
1:CM:294:VAL:HG22	1:CM:343:LEU:HB2	1.98	0.46
1:CS:200:VAL:O	1:CS:200:VAL:HG12	2.16	0.46
1:DB:84:THR:OG1	1:DB:329:GLU:OE2	2.21	0.46
1:DG:237:ILE:HD11	1:DG:241:HIS:HB3	1.98	0.46
1:DQ:149:ASP:OD2	1:DQ:149:ASP:N	2.49	0.46
4:DW:274:ALA:O	4:DW:275:ASP:HB2	2.16	0.46
4:DW:344:GLY:O	4:DW:346:ILE:HD12	2.16	0.46
7:ED:534:GLN:O	7:ED:537:ILE:HG13	2.16	0.46
1:AM:13:ASN:OD1	1:CR:76:PRO:HB2	2.16	0.46
1:AM:100:THR:CG2	1:CR:44:GLN:OE1	2.63	0.46
1:AP:18:SER:N	1:CS:103:TYR:HE1	2.13	0.46
1:AP:290:PRO:O	1:AP:291:THR:HG22	2.16	0.46
1:AU:238:ASN:O	1:AU:240:ALA:N	2.49	0.46
1:BQ:30:ASP:OD2	1:BQ:30:ASP:N	2.45	0.46
1:BY:105:ARG:NH1	1:BZ:50:GLN:OE1	2.48	0.46
1:CQ:263:THR:HG22	1:CQ:263:THR:O	2.16	0.46
1:CR:149:ASP:OD2	1:CR:149:ASP:N	2.49	0.46
1:CS:180:VAL:HG22	1:CS:181:VAL:H	1.81	0.46
1:CU:136:ASP:OD1	1:CU:137:VAL:N	2.49	0.46
1:DC:27:SER:HB3	1:DD:54:LEU:HD13	1.98	0.46
1:AL:213:PHE:HE2	1:AL:218:ILE:HA	1.81	0.46
1:AM:6:LEU:N	1:CR:74:MET:SD	2.88	0.46
1:AV:67:SER:OG	1:AV:68:ARG:N	2.48	0.46
1:AV:252:THR:CB	1:AV:255:SER:HG	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:230:SER:OG	1:AW:339:ALA:O	2.32	0.46
1:BT:214:ASP:HB2	1:BT:217:ASP:OD2	2.16	0.46
1:BU:49:TRP:NE1	1:BU:334:HIS:O	2.48	0.46
1:BU:214:ASP:OD2	1:BU:215:GLU:N	2.49	0.46
1:BW:237:ILE:HG13	1:BW:285:VAL:HG12	1.97	0.46
1:CI:170:LEU:HD23	1:CI:334:HIS:HB2	1.98	0.46
1:CO:93:VAL:HG21	1:CO:109:LEU:HD12	1.97	0.46
1:DD:182:ASP:OD1	1:DD:183:LYS:N	2.49	0.46
1:DN:98:ASN:OD1	1:DN:107:ARG:NH2	2.48	0.46
3:DU:188:ALA:O	3:DU:191:PHE:N	2.48	0.46
3:DV:146:ILE:O	3:DV:147:PRO:C	2.54	0.46
5:DX:74:GLU:CG	5:DZ:81:LYS:HE2	2.45	0.46
5:DY:65:GLN:HA	5:DY:68:LEU:HB2	1.98	0.46
5:DY:81:LYS:O	5:DY:85:ALA:CB	2.64	0.46
1:AG:52:ASP:OD2	1:AJ:25:VAL:HG23	2.16	0.46
1:AG:222:THR:HB	1:AG:279:GLN:OE1	2.16	0.46
1:AP:254:GLY:O	1:AP:255:SER:OG	2.24	0.46
1:AP:308:ARG:CZ	1:CN:95:ASP:OD2	2.64	0.46
1:AS:33:PHE:O	1:AS:37:THR:HG23	2.16	0.46
1:BA:254:GLY:O	1:BA:255:SER:OG	2.30	0.46
1:BH:36:MET:HG3	1:BH:37:THR:HG23	1.98	0.46
1:BI:101:ALA:O	1:DK:15:LYS:HG2	2.15	0.46
1:BJ:213:PHE:HE2	1:BJ:218:ILE:HA	1.81	0.46
1:CA:12:GLN:NE2	1:CT:108:GLU:OE2	2.49	0.46
1:CG:58:ASP:OD2	1:CK:122:ARG:NH1	2.44	0.46
1:CK:238:ASN:ND2	1:CK:293:ALA:O	2.49	0.46
1:CN:318:ASP:OD1	1:CN:318:ASP:N	2.49	0.46
1:DB:309:ALA:CB	7:ED:23:ASN:OD1	2.63	0.46
1:DF:168:GLN:O	1:DF:169:PHE:HB2	2.15	0.46
1:DG:30:ASP:O	1:DG:31:THR:OG1	2.32	0.46
2:DR:50:ASP:HB2	2:DT:59:MET:CE	2.45	0.46
3:DU:14:GLY:O	3:DU:18:LYS:NZ	2.44	0.46
3:DU:46:ILE:HG22	3:DU:47:TYR:N	2.31	0.46
3:DV:179:LEU:C	3:DV:179:LEU:HD23	2.36	0.46
7:ED:24:TYR:HD2	7:EE:277:GLY:HA3	1.81	0.46
7:EE:302:ASN:OD1	7:EE:303:LYS:N	2.49	0.46
1:AK:192:ASP:OD1	1:AK:193:THR:N	2.44	0.45
1:AK:271:ASN:OD1	1:AK:272:SER:N	2.49	0.45
1:AL:48:SER:OG	1:AL:143:LEU:HD21	2.16	0.45
1:AM:143:LEU:O	1:AM:144:THR:OG1	2.20	0.45
1:AO:298:ARG:NE	1:AO:301:ASP:OD2	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:16:LYS:HE2	1:CS:103:TYR:C	2.36	0.45
1:AV:162:ARG:NH1	1:AV:329:GLU:OE2	2.48	0.45
1:BQ:193:THR:HG21	1:BQ:227:THR:O	2.17	0.45
1:BX:158:THR:O	1:BX:158:THR:HG23	2.15	0.45
1:CA:112:GLN:NE2	1:CB:74:MET:SD	2.85	0.45
1:CN:88:ARG:NE	1:CN:327:GLU:OE2	2.49	0.45
1:CP:14:GLY:O	1:CQ:105:ARG:NH1	2.49	0.45
1:CU:197:THR:HG21	1:CU:338:TYR:HA	1.97	0.45
1:DA:28:PRO:O	1:DA:122:ARG:NH1	2.49	0.45
1:DA:127:ILE:O	1:DA:132:GLN:NE2	2.49	0.45
1:DD:315:LEU:HD23	1:DD:316:ALA:H	1.81	0.45
1:DH:206:ASN:OD1	1:DH:207:PRO:HD2	2.15	0.45
1:DO:294:VAL:N	1:DO:343:LEU:O	2.49	0.45
3:DU:197:GLY:O	3:DU:201:TRP:CD1	2.69	0.45
3:DV:160:PRO:HB3	5:DY:22:GLU:CD	2.36	0.45
5:DX:78:GLN:OE1	5:DZ:81:LYS:CA	2.64	0.45
7:ED:302:ASN:OD1	7:ED:303:LYS:N	2.49	0.45
1:AD:173:HIS:HB2	1:AD:181:VAL:HG13	1.99	0.45
1:AP:139:ALA:C	1:CR:144:THR:CG2	2.84	0.45
1:BC:238:ASN:O	1:BC:240:ALA:N	2.49	0.45
1:BJ:48:SER:OG	1:BJ:143:LEU:HD21	2.16	0.45
1:BL:213:PHE:CE2	1:BL:218:ILE:HD11	2.51	0.45
1:BM:298:ARG:NE	1:BM:301:ASP:OD2	2.43	0.45
1:BS:238:ASN:O	1:BS:240:ALA:N	2.49	0.45
1:BY:235:ILE:HD12	1:BY:281:TYR:HB3	1.98	0.45
1:CA:259:ILE:HD12	1:CB:259:ILE:HD11	1.97	0.45
1:CA:332:LEU:HD23	1:CA:332:LEU:H	1.81	0.45
1:CB:306:VAL:HG23	1:CB:306:VAL:O	2.16	0.45
1:CJ:70:GLU:OE2	1:CJ:70:GLU:N	2.50	0.45
1:CN:265:GLN:OE1	1:CN:265:GLN:N	2.48	0.45
1:CS:172:ALA:HB2	1:CS:198:VAL:HG21	1.97	0.45
1:DB:90:VAL:HG21	1:DC:70:GLU:O	2.16	0.45
1:DB:311:LYS:NZ	7:ED:26:GLN:OE1	2.43	0.45
1:DL:97:ALA:O	1:DL:100:THR:OG1	2.33	0.45
1:DN:272:SER:OG	1:DN:272:SER:O	2.35	0.45
2:DR:23:TYR:HE1	4:DW:853:LYS:C	2.16	0.45
2:DS:19:ARG:HG3	2:DS:21:ARG:CG	2.46	0.45
3:DV:26:ARG:HH21	3:DV:27:ASP:N	2.14	0.45
3:DV:73:ASP:OD2	5:DY:24:SER:CB	2.64	0.45
4:DW:968:VAL:O	4:DW:968:VAL:HG23	2.15	0.45
5:DX:44:LEU:O	5:DX:47:SER:HB2	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ED:566:PHE:O	7:ED:570:GLY:N	2.49	0.45
1:AE:136:ASP:OD1	1:AE:137:VAL:N	2.50	0.45
1:AM:306:VAL:HA	1:AM:330:VAL:HG22	1.99	0.45
1:AS:71:ASP:CG	1:CS:4:PRO:HD2	2.36	0.45
1:AU:308:ARG:NH1	1:AU:327:GLU:OE1	2.45	0.45
1:AZ:271:ASN:OD1	1:AZ:272:SER:N	2.49	0.45
1:BE:222:THR:HB	1:BE:279:GLN:OE1	2.16	0.45
1:BF:65:GLU:CD	1:DP:95:ASP:O	2.51	0.45
1:BI:95:ASP:HB3	1:DO:65:GLU:HB3	1.96	0.45
1:BI:203:ASN:ND2	1:BI:211:ILE:O	2.50	0.45
1:BI:317:LYS:NZ	1:DO:65:GLU:CB	2.76	0.45
1:BO:215:GLU:HG2	1:BO:248:LEU:HD23	1.98	0.45
1:CA:215:GLU:O	1:CA:217:ASP:N	2.49	0.45
1:CE:263:THR:O	1:CE:264:LYS:HB3	2.16	0.45
1:CH:30:ASP:OD1	1:CH:30:ASP:N	2.49	0.45
1:CL:205:SER:O	1:CL:206:ASN:ND2	2.49	0.45
1:CN:82:ASN:ND2	1:CN:332:LEU:O	2.43	0.45
1:CO:180:VAL:HG12	1:CO:181:VAL:N	2.32	0.45
3:DU:15:TRP:HA	3:DU:18:LYS:NZ	2.31	0.45
3:DU:174:THR:O	5:DX:14:ASN:HA	2.15	0.45
3:DV:26:ARG:CD	4:DW:967:HIS:CE1	3.00	0.45
3:DV:35:ILE:HB	3:DV:36:PRO:HD3	1.99	0.45
3:DV:46:ILE:HG22	3:DV:47:TYR:N	2.30	0.45
5:DY:63:TYR:N	5:DY:63:TYR:CD1	2.83	0.45
7:EE:566:PHE:O	7:EE:570:GLY:N	2.49	0.45
1:AE:213:PHE:HE1	1:AE:294:VAL:HG21	1.82	0.45
1:AM:322:GLU:H	1:CV:67:SER:CB	2.28	0.45
1:AN:196:VAL:N	1:AN:224:GLN:OE1	2.48	0.45
1:AN:213:PHE:CE2	1:AN:218:ILE:HD11	2.51	0.45
1:AU:305:MET:N	1:AU:331:GLY:O	2.49	0.45
1:AY:213:PHE:HE2	1:AY:218:ILE:HD11	1.81	0.45
1:BI:271:ASN:OD1	1:BI:272:SER:N	2.49	0.45
1:BM:213:PHE:CB	1:BM:244:ILE:HD13	2.46	0.45
1:BX:66:GLY:O	1:CB:88:ARG:NH2	2.45	0.45
1:CB:143:LEU:O	1:CB:144:THR:CG2	2.61	0.45
1:CC:198:VAL:HG13	1:CC:198:VAL:O	2.17	0.45
1:CE:136:ASP:OD1	1:CE:137:VAL:N	2.49	0.45
1:CI:8:VAL:O	1:CI:8:VAL:HG13	2.16	0.45
1:CK:273:ILE:HG22	1:CK:274:THR:N	2.31	0.45
1:CP:113:LEU:HD21	1:CP:312:ARG:CD	2.46	0.45
1:CU:307:LEU:HD23	1:CU:329:GLU:OE1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:186:ASN:OD1	1:DB:200:VAL:HG23	2.15	0.45
1:DD:263:THR:HG22	1:DD:265:GLN:H	1.80	0.45
1:DO:127:ILE:O	1:DO:130:SER:OG	2.28	0.45
1:DQ:33:PHE:O	1:DQ:37:THR:OG1	2.28	0.45
3:DV:210:ASP:O	3:DV:213:VAL:HG22	2.16	0.45
7:ED:660:LYS:NZ	7:EE:658:ASN:C	2.68	0.45
1:AE:190:ASP:O	1:AE:194:GLY:N	2.48	0.45
1:AE:238:ASN:O	1:AE:240:ALA:N	2.49	0.45
1:AM:262:ASN:HB3	1:AP:267:ILE:HD12	1.98	0.45
1:AQ:195:ALA:HB2	1:AQ:227:THR:HG23	1.98	0.45
1:AS:145:ASN:CA	1:CW:143:LEU:O	2.64	0.45
1:BK:262:ASN:HB3	1:BN:267:ILE:HD12	1.99	0.45
1:BN:306:VAL:HG12	1:BN:330:VAL:HG12	1.97	0.45
1:CA:136:ASP:OD1	1:CA:137:VAL:N	2.49	0.45
1:CA:334:HIS:CD2	1:CA:337:PRO:HA	2.51	0.45
1:CC:143:LEU:C	1:CC:144:THR:HG1	2.11	0.45
1:CF:237:ILE:HD11	1:CF:241:HIS:HB2	1.98	0.45
1:CJ:173:HIS:ND1	1:CJ:173:HIS:O	2.49	0.45
1:CS:83:VAL:HG12	1:CS:84:THR:N	2.31	0.45
1:CS:240:ALA:HA	1:CW:223:LEU:HD11	1.97	0.45
1:DB:275:ASP:OD1	1:DB:279:GLN:N	2.41	0.45
1:DD:103:TYR:O	1:DE:50:GLN:NE2	2.48	0.45
1:DH:85:GLN:NE2	1:DH:86:ILE:O	2.50	0.45
1:DN:299:SER:O	1:DN:299:SER:OG	2.29	0.45
7:ED:374:ARG:HA	7:EE:393:GLY:HA2	1.98	0.45
7:ED:419:LEU:HD21	7:EE:363:TYR:CE2	2.52	0.45
7:EE:351:ASP:N	7:EE:351:ASP:OD1	2.48	0.45
1:AG:250:GLU:OE1	1:AM:256:ARG:NE	2.46	0.45
1:AQ:215:GLU:HG2	1:AQ:248:LEU:HD23	1.98	0.45
1:AW:96:THR:HG22	1:BN:308:ARG:NH2	2.32	0.45
1:BA:167:PHE:HE1	1:BA:342:VAL:HG22	1.82	0.45
1:BC:132:GLN:HA	1:BC:180:VAL:HG12	1.98	0.45
1:BE:215:GLU:O	1:BE:216:ALA:HB3	2.17	0.45
1:BI:103:TYR:HH	1:DM:142:TYR:HA	1.80	0.45
1:BU:238:ASN:ND2	1:BU:289:MET:O	2.50	0.45
1:BX:213:PHE:HD2	1:BX:244:ILE:HG21	1.82	0.45
1:CA:241:HIS:NE2	1:CA:291:THR:O	2.48	0.45
1:CO:117:GLY:O	1:CO:120:ILE:HG22	2.16	0.45
1:CP:16:LYS:C	1:CP:17:LEU:HD12	2.36	0.45
1:CY:131:GLY:O	1:CY:180:VAL:HG23	2.16	0.45
1:CZ:322:GLU:OE2	1:CZ:324:TRP:NE1	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DH:82:ASN:ND2	1:DH:332:LEU:O	2.41	0.45
1:DJ:305:MET:N	1:DJ:305:MET:SD	2.90	0.45
1:DN:222:THR:HG22	1:DN:281:TYR:HE1	1.82	0.45
3:DV:90:GLN:O	3:DV:117:ASN:HA	2.17	0.45
3:DV:219:GLN:NE2	3:DV:219:GLN:C	2.69	0.45
1:AA:213:PHE:HE2	1:AA:218:ILE:HD11	1.81	0.45
1:AB:133:ALA:HB1	1:AB:176:LEU:HD22	1.97	0.45
1:AG:253:GLN:OE1	1:AG:253:GLN:N	2.49	0.45
1:AK:145:ASN:CG	1:BN:142:TYR:O	2.55	0.45
1:AK:203:ASN:ND2	1:AK:211:ILE:O	2.50	0.45
1:AT:131:GLY:O	1:AT:181:VAL:HG23	2.17	0.45
1:BB:144:THR:HA	1:BJ:144:THR:HA	1.99	0.45
1:BB:237:ILE:HD11	1:BB:241:HIS:ND1	2.31	0.45
1:BF:43:ASN:HB3	1:DK:98:ASN:OD1	2.16	0.45
1:BK:204:ALA:O	1:BK:205:SER:OG	2.35	0.45
1:BQ:33:PHE:O	1:BQ:37:THR:HG23	2.16	0.45
1:BR:15:LYS:NZ	1:BU:141:GLN:O	2.32	0.45
1:CB:124:LEU:HD13	1:CB:330:VAL:HG21	1.97	0.45
1:CO:220:ASP:OD1	1:CO:221:MET:N	2.50	0.45
1:CP:27:SER:CB	1:CT:54:LEU:HD12	2.47	0.45
1:CX:140:ASP:C	1:CX:140:ASP:OD1	2.55	0.45
1:DO:77:THR:HG22	1:DO:78:VAL:N	2.32	0.45
3:DV:124:ARG:HH11	5:DZ:28:TYR:HA	1.80	0.45
5:DX:49:PHE:CE2	5:DZ:52:ILE:HD11	2.51	0.45
7:ED:20:ARG:NH2	7:EE:279:ASP:CB	2.33	0.45
1:AC:30:ASP:O	1:AC:31:THR:OG1	2.31	0.45
1:AC:254:GLY:O	1:AC:255:SER:OG	2.30	0.45
1:AJ:17:LEU:O	1:AJ:18:SER:OG	2.33	0.45
1:AK:243:LYS:O	1:AK:247:GLY:N	2.46	0.45
1:AP:139:ALA:O	1:CR:144:THR:OG1	2.35	0.45
1:AS:193:THR:HG21	1:AS:227:THR:O	2.17	0.45
1:CZ:157:ASP:N	1:CZ:157:ASP:OD2	2.49	0.45
1:DB:12:GLN:HE22	3:DV:234:ARG:HH22	1.65	0.45
1:DN:294:VAL:O	1:DN:342:VAL:HG13	2.17	0.45
5:DX:46:GLU:O	5:DX:50:GLY:CA	2.61	0.45
7:ED:100:ASP:N	7:ED:100:ASP:OD1	2.50	0.45
7:ED:378:LEU:HG	7:EE:401:GLN:NE2	2.32	0.45
7:ED:474:HIS:ND1	7:EE:117:TYR:CG	2.66	0.45
7:EE:377:ALA:HB3	7:EE:382:TYR:CE1	2.52	0.45
1:AD:144:THR:HA	1:AL:144:THR:HA	1.99	0.45
1:AM:96:THR:OG1	1:CR:308:ARG:NH2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:204:ALA:O	1:AM:205:SER:OG	2.35	0.45
1:AR:143:LEU:H	1:AR:143:LEU:HD12	1.81	0.45
1:AV:334:HIS:NE2	1:AV:340:SER:OG	2.50	0.45
1:BE:52:ASP:OD2	1:BH:25:VAL:HG23	2.16	0.45
1:BI:103:TYR:HA	1:DK:15:LYS:HB2	0.45	0.45
1:BI:147:ALA:HB2	1:DH:79:ILE:CG2	2.43	0.45
1:BR:131:GLY:O	1:BR:181:VAL:HG23	2.17	0.45
1:BU:230:SER:OG	1:BU:339:ALA:O	2.31	0.45
1:CF:117:GLY:O	1:CF:120:ILE:HG22	2.17	0.45
1:CL:101:ALA:O	1:CL:102:ASN:HB2	2.17	0.45
1:CM:248:LEU:C	1:CM:248:LEU:HD23	2.37	0.45
1:CU:291:THR:HG22	1:CU:291:THR:O	2.17	0.45
1:CY:71:ASP:OD1	1:CY:71:ASP:N	2.49	0.45
1:CY:82:ASN:ND2	1:CY:332:LEU:O	2.50	0.45
1:CY:250:GLU:OE1	1:CY:258:ARG:NH2	2.49	0.45
1:DA:65:GLU:OE1	1:DD:8:VAL:HG12	2.15	0.45
1:DD:149:ASP:N	1:DD:150:PRO:CD	2.80	0.45
1:DG:176:LEU:HD12	1:DG:176:LEU:O	2.17	0.45
1:DJ:224:GLN:O	1:DJ:227:THR:OG1	2.30	0.45
3:DU:84:LYS:HD2	3:DU:85:ASP:HB2	1.97	0.45
3:DV:162:GLU:OE2	5:DX:14:ASN:ND2	2.49	0.45
5:DY:91:ILE:HG13	5:DZ:87:LEU:CD2	2.47	0.45
7:EE:381:ALA:O	7:EE:383:ASP:N	2.50	0.45
1:AC:213:PHE:CE2	1:AC:294:VAL:HG21	2.52	0.45
1:AG:215:GLU:O	1:AG:216:ALA:HB3	2.17	0.45
1:AL:271:ASN:N	1:AX:264:LYS:O	2.44	0.45
1:AP:190:ASP:O	1:AP:194:GLY:N	2.43	0.45
1:AW:101:ALA:H	1:BN:42:ILE:CD1	2.29	0.45
1:AW:214:ASP:OD2	1:AW:215:GLU:N	2.49	0.45
1:BT:91:VAL:O	1:BT:91:VAL:HG13	2.17	0.45
1:BT:162:ARG:NH1	1:BT:329:GLU:OE2	2.48	0.45
1:BZ:231:GLU:OE1	1:BZ:231:GLU:N	2.49	0.45
1:CD:214:ASP:OD1	1:CD:244:ILE:HG22	2.17	0.45
1:CF:25:VAL:O	1:CF:25:VAL:HG13	2.17	0.45
1:CO:314:GLU:C	1:CO:315:LEU:HD12	2.38	0.45
1:CR:318:ASP:OD2	1:CR:318:ASP:N	2.48	0.45
1:DC:15:LYS:NZ	1:DD:46:ILE:HD13	2.32	0.45
1:DC:91:VAL:HG23	1:DC:112:GLN:HG3	1.98	0.45
1:DE:330:VAL:HG12	1:DE:331:GLY:N	2.32	0.45
1:DH:46:ILE:HD12	1:DH:82:ASN:O	2.17	0.45
1:DM:236:MET:SD	1:DM:286:ASN:ND2	2.89	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DN:215:GLU:OE1	1:DN:215:GLU:N	2.50	0.45
2:DR:50:ASP:HB2	2:DT:59:MET:HE3	1.98	0.45
3:DV:70:ILE:HD12	3:DV:123:SER:C	2.37	0.45
7:ED:20:ARG:NH2	7:EE:279:ASP:CA	2.80	0.45
7:ED:381:ALA:O	7:ED:383:ASP:N	2.50	0.45
1:AN:60:ASN:O	1:AN:60:ASN:ND2	2.49	0.44
1:AP:7:PHE:HE1	1:CW:75:LYS:O	1.99	0.44
1:AP:99:THR:HB	1:CW:307:LEU:HD23	0.85	0.44
1:AV:214:ASP:HB2	1:AV:217:ASP:OD2	2.16	0.44
1:AW:157:ASP:OD1	1:AW:157:ASP:N	2.50	0.44
1:BK:98:ASN:OD1	1:BK:109:LEU:N	2.50	0.44
1:BL:271:ASN:OD1	1:BL:272:SER:N	2.51	0.44
1:BS:254:GLY:O	1:BS:255:SER:OG	2.28	0.44
1:BZ:182:ASP:OD1	1:BZ:183:LYS:N	2.51	0.44
1:CA:132:GLN:O	1:CA:166:ALA:N	2.48	0.44
1:CG:102:ASN:OD1	1:CG:105:ARG:NH2	2.49	0.44
1:CG:184:THR:O	1:CG:184:THR:HG22	2.17	0.44
1:CQ:10:TYR:OH	1:CU:162:ARG:NH1	2.49	0.44
1:CW:224:GLN:O	1:CW:227:THR:HG22	2.17	0.44
1:DA:197:THR:O	1:DA:342:VAL:N	2.41	0.44
1:DF:159:HIS:O	1:DF:159:HIS:ND1	2.46	0.44
1:DJ:128:LEU:HD11	1:DJ:332:LEU:HB2	1.99	0.44
1:DM:275:ASP:OD1	1:DM:279:GLN:N	2.50	0.44
2:DT:47:GLU:HG3	2:DT:49:VAL:HG13	1.99	0.44
3:DU:32:VAL:CG2	3:DU:33:ASN:N	2.80	0.44
3:DU:235:LEU:HD11	7:ED:354:ASP:CB	2.35	0.44
3:DV:193:GLN:NE2	4:DW:924:HIS:ND1	2.62	0.44
5:DY:59:VAL:HG13	5:DY:63:TYR:CZ	2.51	0.44
7:ED:97:ASP:CG	7:EE:575:HIS:HE2	1.97	0.44
7:ED:415:GLY:HA3	7:EE:367:VAL:CG2	2.45	0.44
1:AP:79:ILE:HD12	1:CR:147:ALA:HB3	1.90	0.44
1:AS:144:THR:CB	1:CW:141:GLN:O	2.54	0.44
1:AV:34:VAL:HG23	1:AV:125:GLU:OE1	2.17	0.44
1:BI:143:LEU:CA	1:DP:17:LEU:HD11	2.41	0.44
1:BX:122:ARG:NH1	1:CC:192:ASP:OD1	2.49	0.44
1:CF:43:ASN:OD1	1:CL:100:THR:OG1	2.30	0.44
1:CP:152:VAL:HG22	1:CP:152:VAL:O	2.17	0.44
1:DA:87:LEU:O	1:DA:120:ILE:HD11	2.17	0.44
1:DD:44:GLN:HG2	1:DD:45:THR:H	1.81	0.44
1:DE:63:HIS:ND1	1:DE:64:VAL:O	2.50	0.44
1:DG:237:ILE:HD11	1:DG:241:HIS:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DH:171:CYS:SG	1:DH:172:ALA:N	2.91	0.44
1:DN:18:SER:HB2	1:DP:42:ILE:HD11	2.00	0.44
1:DP:151:ALA:O	1:DP:155:LEU:HD13	2.17	0.44
2:DR:26:GLU:O	2:DR:30:GLN:HG2	2.17	0.44
3:DU:204:LEU:HD13	3:DV:190:LEU:HD11	1.99	0.44
3:DU:210:ASP:OD1	3:DU:210:ASP:C	2.55	0.44
3:DV:118:PHE:HB2	3:DV:126:ILE:O	2.16	0.44
3:DV:173:LEU:H	3:DV:173:LEU:CD2	2.27	0.44
5:DX:63:TYR:O	5:DX:67:VAL:HG13	2.17	0.44
7:ED:448:ASP:CG	7:EE:441:ASN:ND2	2.70	0.44
7:EE:517:ASN:OD1	7:EE:517:ASN:N	2.49	0.44
1:AC:167:PHE:HE1	1:AC:342:VAL:HG22	1.82	0.44
1:AC:213:PHE:CE1	1:AC:218:ILE:HD11	2.52	0.44
1:AJ:36:MET:O	1:AJ:37:THR:OG1	2.27	0.44
1:AS:44:GLN:CG	1:CS:101:ALA:C	2.69	0.44
1:BA:213:PHE:CE1	1:BA:218:ILE:HD11	2.52	0.44
1:BA:213:PHE:CE2	1:BA:294:VAL:HG21	2.52	0.44
1:BX:101:ALA:HB2	1:BX:107:ARG:HB2	1.99	0.44
1:BY:57:VAL:HG11	1:CC:126:LYS:CD	2.46	0.44
1:CB:102:ASN:ND2	1:CM:12:GLN:OE1	2.47	0.44
1:CC:166:ALA:C	1:CC:167:PHE:CG	2.91	0.44
1:CD:137:VAL:C	1:CD:138:LEU:HD12	2.37	0.44
1:CD:214:ASP:O	1:CD:215:GLU:HG2	2.17	0.44
1:CE:294:VAL:HG22	1:CE:343:LEU:HB2	1.98	0.44
1:DD:262:ASN:CA	1:DE:267:ILE:HD11	2.47	0.44
1:DE:5:THR:O	1:DE:6:LEU:HD22	2.18	0.44
1:DF:198:VAL:HG13	1:DF:198:VAL:O	2.17	0.44
1:DF:298:ARG:HG2	1:DF:299:SER:H	1.82	0.44
3:DV:118:PHE:HA	3:DV:126:ILE:O	2.17	0.44
4:DW:215:LEU:CD2	4:DW:232:ALA:CA	2.94	0.44
7:ED:377:ALA:HB3	7:ED:382:TYR:CE1	2.52	0.44
1:AB:33:PHE:N	1:AB:125:GLU:OE2	2.48	0.44
1:AJ:306:VAL:HG23	1:AJ:306:VAL:O	2.18	0.44
1:AK:313:THR:OG1	1:AK:325:MET:O	2.36	0.44
1:BC:205:SER:O	1:BC:205:SER:OG	2.27	0.44
1:BC:261:GLU:HB2	1:BD:259:ILE:HD11	2.00	0.44
1:BI:105:ARG:N	1:DK:13:ASN:C	2.70	0.44
1:BX:50:GLN:NE2	1:CB:103:TYR:O	2.49	0.44
1:BX:95:ASP:OD1	1:BX:96:THR:N	2.45	0.44
1:BY:259:ILE:HD12	1:BZ:259:ILE:HD11	1.98	0.44
1:CD:302:TRP:O	1:CD:303:THR:HG23	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CF:273:ILE:HG22	1:CF:274:THR:N	2.32	0.44
1:CG:320:SER:O	1:CG:320:SER:OG	2.30	0.44
1:CW:96:THR:O	1:CW:100:THR:HG23	2.18	0.44
1:CZ:238:ASN:OD1	1:CZ:239:PRO:HD2	2.17	0.44
1:CZ:290:PRO:O	1:CZ:291:THR:HG22	2.17	0.44
1:DH:328:MET:HG3	1:DH:330:VAL:HG23	1.99	0.44
1:DI:237:ILE:HD11	1:DI:241:HIS:HB3	2.00	0.44
2:DR:25:TYR:HE1	4:DW:849:ASP:OD2	2.00	0.44
3:DU:30:GLU:OE2	4:DW:1005:ARG:HG2	2.17	0.44
3:DU:50:LEU:O	3:DU:51:ARG:NH1	2.37	0.44
3:DU:70:ILE:HD12	3:DU:123:SER:HA	1.98	0.44
3:DU:210:ASP:O	3:DU:213:VAL:HG22	2.17	0.44
3:DV:60:TYR:HD2	3:DV:151:SER:HG	1.64	0.44
3:DV:62:ASP:HB3	3:DV:135:THR:HG23	1.99	0.44
7:ED:464:ARG:N	7:EE:73:GLN:OE1	2.48	0.44
7:ED:525:SER:OG	7:ED:527:ASN:OD1	2.33	0.44
1:AB:271:ASN:OD1	1:AB:272:SER:N	2.49	0.44
1:AC:30:ASP:N	1:AC:30:ASP:OD1	2.50	0.44
1:AE:132:GLN:HA	1:AE:180:VAL:HG12	1.98	0.44
1:AE:306:VAL:HG13	1:AE:330:VAL:HG12	2.00	0.44
1:AP:100:THR:HG22	1:CW:44:GLN:HG3	1.99	0.44
1:AV:91:VAL:HG13	1:AV:91:VAL:O	2.17	0.44
1:BB:173:HIS:HB2	1:BB:181:VAL:HG13	1.99	0.44
1:BI:100:THR:CB	1:DK:12:GLN:HB2	2.48	0.44
1:BI:313:THR:OG1	1:BI:325:MET:O	2.36	0.44
1:BN:215:GLU:OE1	1:BN:256:ARG:NH2	2.41	0.44
1:BR:237:ILE:HG22	1:BR:285:VAL:HA	1.99	0.44
1:BZ:213:PHE:HE1	1:BZ:294:VAL:HG21	1.82	0.44
1:CA:81:SER:OG	1:CA:82:ASN:N	2.51	0.44
1:CE:162:ARG:NE	1:CU:10:TYR:OH	2.51	0.44
1:CN:52:ASP:OD1	1:CN:53:ALA:N	2.49	0.44
1:CS:171:CYS:SG	1:CS:340:SER:OG	2.76	0.44
1:CS:237:ILE:HG23	1:CS:238:ASN:N	2.30	0.44
1:CT:220:ASP:OD1	1:CT:221:MET:N	2.51	0.44
1:CW:317:LYS:NZ	1:CW:322:GLU:OE1	2.46	0.44
1:DA:8:VAL:HG13	1:DA:11:ASP:HB2	1.99	0.44
1:DB:311:LYS:NZ	7:ED:26:GLN:CD	2.46	0.44
1:DG:99:THR:HG22	1:DG:99:THR:O	2.18	0.44
1:DI:305:MET:N	1:DI:331:GLY:O	2.46	0.44
1:DK:218:ILE:O	1:DK:222:THR:HG23	2.17	0.44
1:DM:169:PHE:HE1	1:DM:176:LEU:HD11	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DM:296:PHE:O	1:DM:341:GLY:N	2.42	0.44
1:DO:123:ASP:OD1	1:DQ:57:VAL:HG13	2.17	0.44
1:DP:318:ASP:OD1	1:DP:319:GLY:N	2.50	0.44
1:DP:319:GLY:O	1:DP:320:SER:OG	2.27	0.44
3:DU:7:GLN:NE2	3:DU:15:TRP:CH2	2.86	0.44
4:DW:838:ILE:C	4:DW:840:SER:N	2.70	0.44
7:ED:351:ASP:OD1	7:ED:351:ASP:N	2.48	0.44
7:EE:43:TYR:CE1	7:EE:48:LEU:HD12	2.53	0.44
1:AM:30:ASP:O	1:AM:31:THR:OG1	2.33	0.44
1:AN:131:GLY:O	1:AN:181:VAL:HG23	2.17	0.44
1:AQ:301:ASP:O	1:AQ:334:HIS:ND1	2.49	0.44
1:AW:93:VAL:HG13	1:BK:7:PHE:CD2	2.45	0.44
1:BU:157:ASP:N	1:BU:157:ASP:OD1	2.50	0.44
1:BZ:30:ASP:OD1	1:BZ:30:ASP:N	2.50	0.44
1:CD:65:GLU:OE1	1:CH:162:ARG:NH1	2.51	0.44
1:CD:93:VAL:HG21	1:CD:108:GLU:O	2.18	0.44
1:CF:180:VAL:HG12	1:CF:181:VAL:N	2.33	0.44
1:CP:315:LEU:HG	1:CP:316:ALA:H	1.82	0.44
1:CY:136:ASP:OD2	1:CY:142:TYR:OH	2.34	0.44
1:CZ:52:ASP:OD1	1:CZ:53:ALA:N	2.50	0.44
1:DB:84:THR:HG22	1:DB:331:GLY:HA3	2.00	0.44
1:DB:266:PHE:HB3	1:DC:273:ILE:HG22	2.00	0.44
1:DC:143:LEU:CG	3:DV:84:LYS:CE	2.95	0.44
1:DC:305:MET:SD	1:DC:333:ARG:HB2	2.57	0.44
1:DD:100:THR:HG22	1:DD:101:ALA:N	2.31	0.44
1:DJ:237:ILE:HD11	1:DJ:285:VAL:HG22	1.98	0.44
1:DL:246:ALA:HB2	1:DN:276:PRO:HG3	2.00	0.44
1:DM:149:ASP:OD1	1:DM:149:ASP:N	2.51	0.44
1:DN:37:THR:OG1	1:DN:304:GLN:OE1	2.32	0.44
2:DR:28:ALA:HB1	2:DS:18:PRO:HB3	2.00	0.44
5:DY:84:ASP:CA	5:DY:87:LEU:HB3	2.40	0.44
7:ED:416:ILE:CG2	7:ED:417:ASP:N	2.81	0.44
1:AH:49:TRP:NE1	1:AH:334:HIS:O	2.51	0.44
1:AO:46:ILE:HG23	1:AO:82:ASN:O	2.18	0.44
1:AP:101:ALA:CB	1:CW:43:ASN:H	2.29	0.44
1:AP:108:GLU:CA	1:CS:7:PHE:CZ	2.98	0.44
1:AP:144:THR:O	1:CR:141:GLN:C	2.53	0.44
1:BM:203:ASN:O	1:BM:349:LYS:NZ	2.40	0.44
1:BP:183:LYS:NZ	1:BP:292:ASP:OD2	2.38	0.44
1:BS:305:MET:N	1:BS:331:GLY:O	2.49	0.44
1:BY:207:PRO:HG2	1:BY:209:THR:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:272:SER:HG	1:CE:280:SER:HG	1.61	0.44
1:CL:67:SER:O	1:CL:67:SER:OG	2.34	0.44
1:CS:273:ILE:HG22	1:CS:274:THR:N	2.32	0.44
1:CV:302:TRP:CE3	1:CV:332:LEU:HD21	2.52	0.44
1:DA:25:VAL:HG13	1:DA:26:LEU:N	2.33	0.44
1:DC:137:VAL:O	1:DC:137:VAL:HG12	2.18	0.44
1:DE:94:SER:OG	1:DL:7:PHE:O	2.25	0.44
2:DR:21:ARG:HD3	4:DW:859:LYS:CG	2.40	0.44
2:DS:32:ARG:NH2	2:DT:19:ARG:HB2	2.33	0.44
3:DV:52:ILE:HD12	3:DV:54:PRO:CG	2.47	0.44
3:DV:69:TYR:HE2	5:DZ:28:TYR:CE2	2.35	0.44
3:DV:197:GLY:O	3:DV:201:TRP:CD1	2.71	0.44
7:ED:489:ARG:NE	7:ED:513:PRO:O	2.51	0.44
7:EE:489:ARG:NE	7:EE:513:PRO:O	2.51	0.44
1:AI:5:THR:OG1	1:AO:156:ASN:OD1	2.36	0.44
1:AP:94:SER:O	1:CS:7:PHE:C	2.56	0.44
1:BE:253:GLN:OE1	1:BE:253:GLN:N	2.49	0.44
1:BP:336:ASN:OD1	1:BP:338:TYR:N	2.43	0.44
1:BT:34:VAL:HG23	1:BT:125:GLU:OE1	2.17	0.44
1:CJ:252:THR:OG1	1:CJ:256:ARG:O	2.36	0.44
1:CL:222:THR:HG21	1:CL:275:ASP:OD2	2.17	0.44
1:CP:237:ILE:HD11	1:CP:241:HIS:HB2	2.00	0.44
1:CQ:202:GLN:O	1:CQ:203:ASN:OD1	2.35	0.44
1:DB:306:VAL:HG22	1:DB:330:VAL:HG23	2.00	0.44
1:DF:188:PRO:O	1:DF:196:VAL:HG22	2.18	0.44
1:DJ:93:VAL:HG12	1:DJ:94:SER:N	2.32	0.44
1:DK:202:GLN:NE2	1:DK:216:ALA:O	2.51	0.44
1:DO:110:MET:O	1:DO:114:GLU:OE1	2.35	0.44
4:DW:858:ARG:HE	4:DW:859:LYS:N	2.16	0.44
5:DX:45:ALA:O	5:DX:46:GLU:C	2.55	0.44
5:DX:49:PHE:CE2	5:DY:49:PHE:HA	2.53	0.44
5:DX:85:ALA:HB3	5:DX:86:ARG:CZ	2.48	0.44
5:DX:88:MET:N	5:DX:88:MET:SD	2.90	0.44
1:AG:30:ASP:OD2	1:AG:287:ARG:NH2	2.45	0.44
1:AJ:275:ASP:OD1	1:AJ:279:GLN:N	2.43	0.44
1:AM:98:ASN:OD1	1:AM:109:LEU:N	2.50	0.44
1:AP:17:LEU:HD12	1:CS:17:LEU:HD11	2.00	0.44
1:AV:306:VAL:HG13	1:AV:330:VAL:CG1	2.47	0.44
1:AW:13:ASN:HB3	1:BN:77:THR:OG1	1.94	0.44
1:AW:15:LYS:N	1:BK:103:TYR:CE1	2.77	0.44
1:BA:30:ASP:OD1	1:BA:30:ASP:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:262:ASN:HB3	1:BB:267:ILE:HD12	2.00	0.44
1:BI:95:ASP:HA	1:DK:8:VAL:O	2.18	0.44
1:BI:320:SER:H	1:DO:66:GLY:C	2.20	0.44
1:BW:137:VAL:HG23	1:BW:137:VAL:O	2.18	0.44
1:BW:197:THR:O	1:BW:198:VAL:HG13	2.18	0.44
1:CH:149:ASP:OD1	1:CH:149:ASP:N	2.51	0.44
1:CQ:275:ASP:OD1	1:CQ:279:GLN:N	2.51	0.44
1:CQ:292:ASP:O	1:CQ:345:THR:HG23	2.18	0.44
1:CR:87:LEU:HB3	1:CR:120:ILE:HD11	2.00	0.44
1:CW:237:ILE:HD11	1:CW:241:HIS:CB	2.48	0.44
1:DF:64:VAL:HG12	1:DF:65:GLU:N	2.33	0.44
1:DI:237:ILE:HD11	1:DI:241:HIS:CB	2.48	0.44
1:DP:134:ARG:NH2	1:DP:142:TYR:OH	2.50	0.44
2:DT:23:TYR:HD1	2:DT:23:TYR:HA	1.46	0.44
3:DV:3:MET:N	3:DV:4:PRO:HD2	2.33	0.44
4:DW:838:ILE:HG23	4:DW:840:SER:H	1.83	0.44
7:ED:41:TRP:CD1	7:ED:266:THR:HG22	2.53	0.44
7:ED:229:ARG:O	7:ED:287:VAL:N	2.48	0.44
1:AF:305:MET:N	1:AF:331:GLY:O	2.51	0.43
1:AM:308:ARG:NH1	1:AM:327:GLU:OE1	2.51	0.43
1:AP:30:ASP:O	1:AP:31:THR:OG1	2.31	0.43
1:AS:142:TYR:CD2	1:CW:144:THR:O	2.71	0.43
1:AW:103:TYR:HB2	1:BK:16:LYS:HB3	1.82	0.43
1:BM:46:ILE:HG23	1:BM:82:ASN:O	2.18	0.43
1:BX:314:GLU:OE1	1:BX:324:TRP:NE1	2.50	0.43
1:BY:52:ASP:OD2	1:BY:53:ALA:N	2.46	0.43
1:CH:88:ARG:NE	1:CH:327:GLU:OE2	2.50	0.43
1:CL:56:SER:OG	1:CL:191:PRO:O	2.30	0.43
1:CN:143:LEU:H	1:CN:143:LEU:HD23	1.82	0.43
1:CQ:200:VAL:O	1:CQ:200:VAL:HG13	2.18	0.43
1:CS:290:PRO:O	1:CS:291:THR:HG22	2.18	0.43
1:DF:25:VAL:HG13	1:DF:25:VAL:O	2.17	0.43
2:DS:59:MET:HG3	2:DS:65:PHE:CE2	2.53	0.43
3:DU:187:HIS:O	3:DU:190:LEU:HB2	2.17	0.43
7:EE:525:SER:OG	7:EE:527:ASN:OD1	2.33	0.43
7:EE:564:GLN:O	7:EE:568:LEU:HG	2.18	0.43
1:AC:171:CYS:SG	1:AC:340:SER:OG	2.50	0.43
1:AE:261:GLU:HB2	1:AF:259:ILE:HD11	2.00	0.43
1:AG:140:ASP:HA	1:AG:143:LEU:HD12	2.00	0.43
1:AN:271:ASN:OD1	1:AN:272:SER:N	2.51	0.43
1:AP:4:PRO:C	1:CS:92:ARG:HE	2.09	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:9:SER:N	1:CS:96:THR:CG2	2.77	0.43
1:AS:141:GLN:HA	1:CW:141:GLN:NE2	2.30	0.43
1:AW:100:THR:HG21	1:BN:84:THR:HG23	1.96	0.43
1:BD:81:SER:O	1:BD:134:ARG:NH2	2.52	0.43
1:BF:63:HIS:O	1:BI:86:ILE:HD13	2.19	0.43
1:BK:90:VAL:HG11	1:BN:70:GLU:O	2.18	0.43
1:BL:131:GLY:O	1:BL:181:VAL:HG23	2.17	0.43
1:CO:262:ASN:ND2	1:CS:265:GLN:O	2.47	0.43
1:CV:87:LEU:CB	1:CV:120:ILE:HD11	2.48	0.43
1:CX:52:ASP:OD1	1:CX:53:ALA:N	2.50	0.43
1:CY:105:ARG:NH2	1:CY:108:GLU:OE1	2.51	0.43
1:DC:100:THR:HG22	1:DC:101:ALA:N	2.26	0.43
1:DE:91:VAL:HG13	1:DE:91:VAL:O	2.16	0.43
1:DF:167:PHE:O	1:DF:168:GLN:HB2	2.18	0.43
1:DJ:137:VAL:O	1:DJ:137:VAL:HG22	2.18	0.43
3:DV:62:ASP:OD1	3:DV:62:ASP:N	2.50	0.43
5:DX:63:TYR:HB2	5:DZ:70:LYS:NZ	2.33	0.43
7:ED:549:LEU:HD11	7:EE:558:ASP:OD2	2.18	0.43
7:ED:552:LEU:HG	7:EE:579:LEU:H	1.23	0.43
7:ED:564:GLN:O	7:ED:568:LEU:HG	2.18	0.43
7:EE:41:TRP:CD1	7:EE:266:THR:HG22	2.53	0.43
7:EE:100:ASP:OD1	7:EE:100:ASP:N	2.50	0.43
1:AX:234:ILE:HG23	1:AX:284:ILE:HD12	1.99	0.43
1:AY:21:ASN:O	1:AY:21:ASN:ND2	2.51	0.43
1:BD:230:SER:OG	1:BD:339:ALA:O	2.21	0.43
1:BE:250:GLU:OE1	1:BK:256:ARG:NE	2.46	0.43
1:BI:109:LEU:HD12	1:DK:7:PHE:CD1	2.50	0.43
1:CH:275:ASP:OD1	1:CH:279:GLN:N	2.38	0.43
1:CO:180:VAL:HG12	1:CO:181:VAL:H	1.82	0.43
1:DB:26:LEU:HD13	1:DC:336:ASN:HD22	1.84	0.43
1:DC:91:VAL:HG13	1:DC:91:VAL:O	2.18	0.43
1:DE:57:VAL:HG23	1:DE:57:VAL:O	2.18	0.43
1:DJ:334:HIS:ND1	1:DJ:336:ASN:O	2.51	0.43
2:DT:5:THR:O	2:DT:6:ASN:HB3	2.18	0.43
3:DU:165:GLU:OE1	3:DU:166:ASP:N	2.39	0.43
3:DV:81:MET:HB2	3:DV:87:THR:O	2.18	0.43
3:DV:128:TYR:CB	3:DV:129:PRO:HD3	2.48	0.43
7:ED:32:ALA:O	7:EE:269:ARG:CG	2.66	0.43
7:ED:32:ALA:CB	7:EE:269:ARG:HB3	2.31	0.43
7:ED:43:TYR:CE1	7:ED:48:LEU:HD12	2.53	0.43
7:ED:376:LYS:HZ3	7:ED:408:PRO:HD3	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ED:638:LEU:O	7:ED:641:GLU:HB3	2.19	0.43
7:EE:655:THR:O	7:EE:659:ARG:N	2.48	0.43
1:AA:21:ASN:O	1:AA:21:ASN:ND2	2.51	0.43
1:AM:210:ASN:OD1	1:AM:211:ILE:N	2.52	0.43
1:AT:237:ILE:HG22	1:AT:285:VAL:HA	1.99	0.43
1:BG:5:THR:OG1	1:BM:156:ASN:OD1	2.36	0.43
1:BI:209:THR:OG1	1:BI:210:ASN:N	2.51	0.43
1:BK:306:VAL:HA	1:BK:330:VAL:HG22	1.99	0.43
1:BY:156:ASN:O	1:BY:159:HIS:NE2	2.51	0.43
1:BZ:43:ASN:OD1	1:BZ:44:GLN:N	2.50	0.43
1:CJ:96:THR:O	1:CJ:100:THR:HG23	2.19	0.43
1:CN:83:VAL:HG12	1:CN:84:THR:N	2.34	0.43
1:CP:290:PRO:O	1:CP:291:THR:HG22	2.18	0.43
1:CQ:136:ASP:OD1	1:CQ:137:VAL:N	2.51	0.43
1:CS:25:VAL:O	1:CS:25:VAL:HG13	2.18	0.43
1:CX:164:THR:HG21	1:CX:331:GLY:HA2	1.99	0.43
1:DB:52:ASP:HB3	1:DB:78:VAL:HG23	2.00	0.43
1:DF:257:LYS:NZ	1:DF:259:ILE:HD11	2.33	0.43
1:DK:83:VAL:HG21	1:DK:162:ARG:HG2	2.01	0.43
1:DL:184:THR:O	1:DL:184:THR:HG22	2.18	0.43
1:DO:259:ILE:HG21	1:DQ:259:ILE:HD13	2.00	0.43
1:DP:91:VAL:O	1:DP:91:VAL:HG13	2.18	0.43
3:DV:55:LEU:HB3	5:DY:22:GLU:OE2	2.18	0.43
3:DV:153:ILE:HD12	5:DX:2:ILE:N	2.32	0.43
7:ED:304:GLU:CB	7:EE:232:GLU:OE1	2.64	0.43
7:ED:430:ARG:NH2	7:EE:69:ASN:ND2	2.66	0.43
7:EE:416:ILE:CG2	7:EE:417:ASP:N	2.81	0.43
1:AA:65:GLU:OE1	1:AB:162:ARG:NH1	2.51	0.43
1:AC:131:GLY:O	1:AC:181:VAL:HG23	2.18	0.43
1:AC:262:ASN:HB3	1:AD:267:ILE:HD12	2.00	0.43
1:AG:56:SER:OG	1:AG:57:VAL:N	2.52	0.43
1:AO:64:VAL:HG12	1:AO:65:GLU:N	2.34	0.43
1:AP:7:PHE:CE2	1:CW:75:LYS:HD2	2.54	0.43
1:BH:306:VAL:HG23	1:BH:306:VAL:O	2.18	0.43
1:BI:92:ARG:NH1	1:DK:6:LEU:HD21	2.27	0.43
1:BI:109:LEU:HD21	1:DK:7:PHE:CZ	2.53	0.43
1:BK:91:VAL:HG13	1:BK:91:VAL:O	2.19	0.43
1:CA:237:ILE:HG21	1:CA:285:VAL:HG22	1.99	0.43
1:CD:96:THR:HG21	1:CD:108:GLU:OE2	2.18	0.43
1:CM:125:GLU:OE2	1:CM:286:ASN:ND2	2.48	0.43
1:CR:117:GLY:O	1:CR:120:ILE:HG22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CV:162:ARG:NH1	1:CV:329:GLU:OE2	2.51	0.43
1:CW:147:ALA:HB1	1:CW:150:PRO:HG3	2.01	0.43
1:DI:31:THR:OG1	1:DI:31:THR:O	2.37	0.43
1:DI:64:VAL:O	1:DQ:86:ILE:HD11	2.18	0.43
1:DJ:83:VAL:HG12	1:DJ:84:THR:N	2.33	0.43
1:DK:267:ILE:HG22	1:DM:274:THR:HB	2.00	0.43
1:DL:26:LEU:HD22	1:DN:336:ASN:HB2	2.00	0.43
1:DO:24:SER:OG	1:DQ:335:ARG:O	2.24	0.43
1:DO:203:ASN:ND2	1:DO:212:GLY:O	2.52	0.43
1:DQ:90:VAL:HG12	1:DQ:91:VAL:N	2.33	0.43
2:DR:19:ARG:NE	2:DR:23:TYR:O	2.46	0.43
3:DV:79:TRP:CZ2	3:DV:155:SER:HB2	2.54	0.43
3:DV:143:SER:N	3:DV:144:PRO:CD	2.80	0.43
3:DV:191:PHE:CD1	3:DV:191:PHE:C	2.91	0.43
4:DW:838:ILE:O	4:DW:839:TRP:C	2.56	0.43
5:DY:73:ILE:O	5:DY:76:LEU:HB2	2.18	0.43
7:ED:94:GLN:HE21	7:EE:502:ARG:HG3	1.84	0.43
1:AS:79:ILE:HG22	1:AS:80:LYS:N	2.34	0.43
1:AV:252:THR:OG1	1:AV:255:SER:OG	2.14	0.43
1:BF:49:TRP:NE1	1:BF:334:HIS:O	2.51	0.43
1:BM:196:VAL:N	1:BM:224:GLN:OE1	2.49	0.43
1:BU:4:PRO:C	1:DH:74:MET:HB3	1.96	0.43
1:BU:8:VAL:H	1:DP:94:SER:HB2	1.54	0.43
1:BY:33:PHE:CZ	1:BY:37:THR:HG21	2.53	0.43
1:CF:96:THR:O	1:CF:100:THR:HG23	2.19	0.43
1:CH:267:ILE:HD13	1:CX:262:ASN:HA	2.01	0.43
1:CI:262:ASN:OD1	1:CI:263:THR:N	2.52	0.43
1:CJ:17:LEU:HG	1:CJ:18:SER:N	2.33	0.43
1:CY:152:VAL:O	1:CY:152:VAL:HG12	2.18	0.43
1:DA:124:LEU:HD11	1:DA:128:LEU:HD11	2.00	0.43
1:DC:84:THR:HG22	1:DC:85:GLN:N	2.34	0.43
1:DF:237:ILE:HD11	1:DF:241:HIS:HB3	1.99	0.43
1:DH:203:ASN:ND2	1:DH:203:ASN:O	2.52	0.43
1:DK:182:ASP:OD1	1:DK:184:THR:OG1	2.23	0.43
2:DR:59:MET:SD	2:DS:50:ASP:HB3	2.58	0.43
5:DY:49:PHE:HE1	5:DZ:52:ILE:HD12	1.84	0.43
1:AA:305:MET:N	1:AA:331:GLY:O	2.47	0.43
1:AK:209:THR:OG1	1:AK:210:ASN:N	2.51	0.43
1:AK:314:GLU:OE1	1:AK:314:GLU:HA	2.19	0.43
1:AM:91:VAL:O	1:AM:91:VAL:HG13	2.19	0.43
1:AR:254:GLY:O	1:AR:255:SER:OG	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:203:ASN:O	1:BE:349:LYS:NZ	2.48	0.43
1:BW:326:ILE:HG23	1:BW:326:ILE:O	2.19	0.43
1:BX:79:ILE:HD11	1:CM:13:ASN:HB3	2.00	0.43
1:CF:51:THR:O	1:CF:51:THR:HG23	2.19	0.43
1:CO:88:ARG:NH2	1:CS:68:ARG:O	2.52	0.43
1:CT:164:THR:O	1:CT:164:THR:HG22	2.18	0.43
1:DA:145:ASN:O	1:DA:149:ASP:N	2.46	0.43
1:DI:164:THR:HG22	1:DI:165:GLY:N	2.34	0.43
1:DN:310:PRO:CB	1:DN:326:ILE:HD11	2.46	0.43
2:DR:90:VAL:HG21	2:DS:96:GLU:HB3	2.01	0.43
3:DU:53:PRO:HA	3:DU:56:GLU:HG3	2.01	0.43
3:DU:88:ILE:HD13	3:DU:88:ILE:N	2.33	0.43
3:DV:73:ASP:HB3	5:DY:24:SER:HG	1.75	0.43
7:EE:638:LEU:O	7:EE:641:GLU:HB3	2.19	0.43
1:AD:134:ARG:O	1:AD:135:THR:OG1	2.32	0.43
1:AF:81:SER:O	1:AF:134:ARG:NH2	2.51	0.43
1:AK:213:PHE:HE1	1:AK:218:ILE:HD11	1.84	0.43
1:AP:4:PRO:HB3	1:CW:75:LYS:HD2	1.61	0.43
1:AS:224:GLN:O	1:AS:227:THR:OG1	2.26	0.43
1:BA:25:VAL:O	1:BA:25:VAL:HG13	2.19	0.43
1:BA:131:GLY:O	1:BA:181:VAL:HG23	2.18	0.43
1:BI:12:GLN:HB2	1:DK:96:THR:HG23	1.07	0.43
1:BI:314:GLU:HA	1:BI:314:GLU:OE1	2.19	0.43
1:BM:64:VAL:HG12	1:BM:65:GLU:N	2.33	0.43
1:BM:308:ARG:NH1	1:BM:327:GLU:OE1	2.43	0.43
1:BN:30:ASP:O	1:BN:31:THR:OG1	2.31	0.43
1:BT:306:VAL:HG13	1:BT:330:VAL:CG1	2.47	0.43
1:BW:42:ILE:HG23	1:BW:42:ILE:O	2.19	0.43
1:BZ:25:VAL:O	1:BZ:26:LEU:HD12	2.19	0.43
1:BZ:91:VAL:O	1:BZ:91:VAL:HG13	2.18	0.43
1:CM:45:THR:HG1	1:CM:84:THR:HG1	1.63	0.43
1:CQ:310:PRO:HB3	1:CQ:326:ILE:HD11	2.01	0.43
1:CV:211:ILE:O	1:CV:211:ILE:HG23	2.19	0.43
1:DI:186:ASN:OD1	1:DI:187:GLY:N	2.51	0.43
3:DU:171:THR:CB	5:DX:21:THR:HG21	2.45	0.43
3:DV:10:ILE:HG13	3:DV:10:ILE:O	2.19	0.43
4:DW:748:ALA:HB1	6:EC:23:PHE:N	1.95	0.43
5:DY:73:ILE:HA	5:DY:76:LEU:CB	2.44	0.43
5:DY:76:LEU:HD23	5:DY:76:LEU:HA	1.80	0.43
7:ED:305:SER:OG	7:EE:284:ALA:N	2.52	0.43
1:AP:317:LYS:H	1:CW:315:LEU:HB3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:65:GLU:OE2	1:CN:94:SER:HB3	2.19	0.43
1:AW:105:ARG:HD2	1:BK:15:LYS:CB	1.80	0.43
1:BI:93:VAL:O	1:DK:6:LEU:O	2.35	0.43
1:BI:145:ASN:OD1	1:DH:142:TYR:HE2	1.99	0.43
1:BJ:271:ASN:N	1:BV:264:LYS:O	2.44	0.43
1:BK:36:MET:O	1:BK:299:SER:OG	2.31	0.43
1:CE:143:LEU:HD13	1:CU:17:LEU:HD22	1.99	0.43
1:CP:64:VAL:O	1:CP:65:GLU:HG3	2.18	0.43
1:CT:190:ASP:O	1:CT:194:GLY:N	2.45	0.43
1:CV:87:LEU:HB2	1:CV:120:ILE:HD11	2.01	0.43
1:CZ:315:LEU:N	1:CZ:315:LEU:HD12	2.34	0.43
1:DA:57:VAL:HG21	1:DE:126:LYS:HE3	2.01	0.43
1:DB:16:LYS:HE2	3:DV:234:ARG:HB2	2.01	0.43
1:DB:167:PHE:HE2	1:DB:342:VAL:HG22	1.83	0.43
1:DH:307:LEU:HD22	1:DH:329:GLU:OE1	2.19	0.43
2:DS:48:PRO:HB2	2:DT:41:THR:O	2.18	0.43
2:DS:55:THR:O	2:DS:59:MET:HB2	2.19	0.43
3:DV:99:TYR:CE1	3:DV:103:HIS:HB2	2.54	0.43
4:DW:65:PHE:CZ	4:DW:870:ILE:HG23	2.54	0.43
4:DW:355:GLU:OE2	4:DW:371:VAL:CG2	2.57	0.43
5:DX:52:ILE:HD11	5:DZ:56:ILE:CD1	2.49	0.43
7:ED:98:ALA:N	7:EE:572:LYS:HZ1	2.14	0.43
7:ED:467:MET:HE2	7:EE:72:LEU:CD2	2.33	0.43
1:AA:256:ARG:NE	1:AB:250:GLU:OE2	2.40	0.43
1:AH:63:HIS:O	1:AK:86:ILE:HD13	2.19	0.43
1:AM:7:PHE:CB	1:CR:74:MET:SD	2.95	0.43
1:AP:52:ASP:OD1	1:AP:53:ALA:N	2.52	0.43
1:AR:213:PHE:CE1	1:AR:294:VAL:HG22	2.54	0.43
1:AT:210:ASN:C	1:AT:211:ILE:HD13	2.40	0.43
1:BF:31:THR:O	1:BF:35:SER:OG	2.30	0.43
1:BG:64:VAL:HG12	1:BG:65:GLU:H	1.83	0.43
1:BK:308:ARG:NH1	1:BK:327:GLU:OE1	2.51	0.43
1:BS:46:ILE:HD13	1:BS:138:LEU:HD11	2.00	0.43
1:BU:318:ASP:HA	1:DH:314:GLU:C	2.20	0.43
1:CE:205:SER:OG	1:CE:214:ASP:OD2	2.37	0.43
1:DE:230:SER:OG	1:DE:339:ALA:O	2.30	0.43
1:DG:83:VAL:HG12	1:DG:84:THR:N	2.34	0.43
1:DH:8:VAL:O	1:DH:8:VAL:HG13	2.18	0.43
3:DV:26:ARG:HH21	3:DV:27:ASP:H	1.67	0.43
3:DV:59:VAL:CG1	3:DV:154:LEU:HB3	2.49	0.43
4:DW:275:ASP:HB3	4:DW:279:LYS:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DW:355:GLU:CD	4:DW:371:VAL:HG22	2.39	0.43
5:DY:82:ASP:O	5:DY:86:ARG:HG2	2.19	0.43
7:ED:93:GLN:CG	7:EE:574:THR:HG21	2.25	0.43
1:AD:186:ASN:OD1	1:AD:186:ASN:N	2.52	0.42
1:AM:90:VAL:HG11	1:AP:70:GLU:O	2.18	0.42
1:AM:171:CYS:SG	1:AM:340:SER:OG	2.51	0.42
1:AP:16:LYS:NZ	1:CS:103:TYR:CB	2.80	0.42
1:AQ:214:ASP:O	1:AQ:217:ASP:N	2.34	0.42
1:AS:44:GLN:HB3	1:CS:100:THR:HG21	1.59	0.42
1:AS:307:LEU:HD11	1:CS:98:ASN:O	2.19	0.42
1:BE:56:SER:OG	1:BE:57:VAL:N	2.52	0.42
1:BH:17:LEU:O	1:BH:18:SER:OG	2.33	0.42
1:BI:72:GLY:N	1:DP:5:THR:HA	2.32	0.42
1:BI:91:VAL:HG12	1:DK:7:PHE:CD1	2.47	0.42
1:BU:96:THR:N	1:DH:308:ARG:NH1	2.63	0.42
1:BU:286:ASN:OD1	1:BU:289:MET:N	2.52	0.42
1:BX:132:GLN:O	1:BX:166:ALA:N	2.51	0.42
1:BY:83:VAL:HG12	1:BY:84:THR:N	2.34	0.42
1:BY:192:ASP:OD2	1:CC:27:SER:OG	2.27	0.42
1:CA:213:PHE:HB2	1:CA:244:ILE:HG21	2.00	0.42
1:CB:271:ASN:OD1	1:CB:272:SER:N	2.52	0.42
1:CF:81:SER:OG	1:CF:134:ARG:NH2	2.51	0.42
1:CR:52:ASP:OD1	1:CR:53:ALA:N	2.50	0.42
1:CS:275:ASP:OD1	1:CS:279:GLN:N	2.52	0.42
1:DB:273:ILE:HG22	1:DB:274:THR:N	2.33	0.42
1:DD:44:GLN:O	1:DD:46:ILE:N	2.52	0.42
1:DD:90:VAL:HG22	1:DD:91:VAL:N	2.34	0.42
1:DH:263:THR:O	1:DH:264:LYS:HB3	2.19	0.42
1:DJ:25:VAL:HG23	1:DJ:25:VAL:O	2.19	0.42
2:DT:22:ASP:HA	4:DW:838:ILE:HA	2.00	0.42
5:DX:63:TYR:CB	5:DZ:70:LYS:NZ	2.81	0.42
1:AE:218:ILE:O	1:AE:222:THR:HG23	2.19	0.42
1:AI:64:VAL:HG12	1:AI:65:GLU:H	1.83	0.42
1:AK:143:LEU:CD2	1:BN:146:SER:C	2.75	0.42
1:AM:6:LEU:N	1:CR:74:MET:CE	2.82	0.42
1:AP:96:THR:CG2	1:CZ:64:VAL:HG13	2.48	0.42
1:AW:238:ASN:ND2	1:AW:289:MET:O	2.50	0.42
1:AX:273:ILE:HD12	1:AX:283:ILE:HD11	2.00	0.42
1:BC:306:VAL:HG13	1:BC:330:VAL:HG12	2.00	0.42
1:BD:334:HIS:NE2	1:BD:336:ASN:O	2.53	0.42
1:BI:146:SER:CA	1:DH:143:LEU:CD1	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BK:143:LEU:O	1:BK:144:THR:OG1	2.20	0.42
1:BU:108:GLU:OE1	1:DP:7:PHE:CZ	2.71	0.42
1:BX:141:GLN:HG3	1:BX:144:THR:HG23	2.01	0.42
1:CE:241:HIS:NE2	1:CE:291:THR:O	2.52	0.42
1:CJ:293:ALA:HB2	1:CJ:344:PHE:HD1	1.84	0.42
1:CR:307:LEU:HD23	1:CR:329:GLU:OE1	2.19	0.42
1:CT:138:LEU:N	1:CT:138:LEU:HD12	2.33	0.42
1:CU:25:VAL:HG23	1:CU:25:VAL:O	2.19	0.42
1:CX:85:GLN:CB	1:CX:164:THR:HG23	2.49	0.42
1:CZ:275:ASP:OD1	1:CZ:279:GLN:N	2.48	0.42
1:DB:312:ARG:HH22	7:ED:27:GLY:CA	2.31	0.42
1:DF:70:GLU:N	1:DF:70:GLU:OE2	2.51	0.42
1:DG:58:ASP:OD1	1:DG:59:GLY:N	2.50	0.42
1:DL:198:VAL:HG12	1:DL:342:VAL:HG22	2.01	0.42
3:DV:59:VAL:CB	5:DX:3:VAL:HG23	2.49	0.42
4:DW:2:ALA:O	4:DW:3:LEU:HB3	2.19	0.42
4:DW:336:THR:HG22	4:DW:337:VAL:N	2.34	0.42
5:DX:60:GLU:OE2	5:DX:64:GLN:HG2	2.18	0.42
1:AA:90:VAL:HG11	1:AC:70:GLU:O	2.19	0.42
1:AG:153:ALA:O	1:AG:155:LEU:N	2.49	0.42
1:AI:64:VAL:HG11	1:AL:157:ASP:O	2.19	0.42
1:AO:64:VAL:HG12	1:AO:65:GLU:H	1.85	0.42
1:AV:40:GLU:OE1	1:AV:333:ARG:NH2	2.53	0.42
1:AY:65:GLU:OE1	1:AZ:162:ARG:NH1	2.51	0.42
1:BF:74:MET:HE1	1:DK:6:LEU:CB	2.46	0.42
1:BM:64:VAL:HG12	1:BM:65:GLU:H	1.85	0.42
1:BQ:250:GLU:OE2	1:BT:256:ARG:NH1	2.50	0.42
1:BS:237:ILE:HG22	1:BS:285:VAL:HA	2.01	0.42
1:BU:13:ASN:HB2	1:DP:105:ARG:NH1	2.26	0.42
1:BV:234:ILE:HG23	1:BV:284:ILE:HD12	1.99	0.42
1:BV:273:ILE:HD12	1:BV:283:ILE:HD11	2.00	0.42
1:BW:95:ASP:OD1	1:BW:96:THR:N	2.51	0.42
1:BX:107:ARG:NH1	1:BX:108:GLU:O	2.53	0.42
1:CC:64:VAL:HG12	1:CC:65:GLU:N	2.33	0.42
1:CG:177:ALA:HB2	1:CG:182:ASP:HB2	2.00	0.42
1:CK:290:PRO:O	1:CK:291:THR:HG22	2.19	0.42
1:CQ:308:ARG:HG2	1:CQ:329:GLU:HB2	2.02	0.42
1:CU:34:VAL:HG13	1:CU:304:GLN:HE22	1.84	0.42
1:CU:263:THR:O	1:CU:264:LYS:HB3	2.19	0.42
1:CV:33:PHE:O	1:CV:37:THR:HG23	2.19	0.42
1:CZ:4:PRO:O	1:CZ:5:THR:OG1	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:12:GLN:NE2	3:DV:234:ARG:NH2	2.67	0.42
1:DF:315:LEU:HD11	1:DF:321:TYR:CE1	2.54	0.42
1:DN:252:THR:O	1:DN:256:ARG:N	2.52	0.42
3:DV:209:LEU:O	3:DV:212:MET:HG3	2.19	0.42
7:ED:517:ASN:N	7:ED:517:ASN:OD1	2.49	0.42
7:EE:536:LEU:HB3	7:EE:565:ILE:HD11	2.01	0.42
1:AC:25:VAL:HG13	1:AC:25:VAL:O	2.19	0.42
1:AL:51:THR:O	1:AL:51:THR:OG1	2.33	0.42
1:AW:286:ASN:OD1	1:AW:289:MET:N	2.52	0.42
1:AY:152:VAL:O	1:AY:152:VAL:HG12	2.19	0.42
1:BI:12:GLN:HG2	1:DK:94:SER:O	2.19	0.42
1:BK:210:ASN:OD1	1:BK:211:ILE:N	2.52	0.42
1:BQ:79:ILE:HG22	1:BQ:80:LYS:N	2.34	0.42
1:BT:40:GLU:OE1	1:BT:333:ARG:NH2	2.52	0.42
1:BU:14:GLY:HA3	1:DP:102:ASN:OD1	2.17	0.42
1:BZ:58:ASP:OD1	1:BZ:59:GLY:N	2.52	0.42
1:CA:117:GLY:O	1:CA:120:ILE:HG22	2.20	0.42
1:CE:18:SER:O	1:CE:18:SER:OG	2.35	0.42
1:CF:250:GLU:OE2	1:CN:256:ARG:NE	2.52	0.42
1:CS:253:GLN:OE1	1:CS:253:GLN:N	2.41	0.42
1:CT:156:ASN:C	1:CT:156:ASN:OD1	2.57	0.42
1:CX:30:ASP:N	1:CX:30:ASP:OD1	2.52	0.42
1:CZ:30:ASP:OD1	1:CZ:31:THR:N	2.49	0.42
1:DB:312:ARG:NE	7:ED:31:MET:HE3	2.29	0.42
1:DC:143:LEU:CG	3:DV:84:LYS:NZ	2.82	0.42
1:DN:95:ASP:N	1:DN:95:ASP:OD2	2.52	0.42
1:DQ:137:VAL:HG22	1:DQ:137:VAL:O	2.19	0.42
3:DU:192:VAL:HG23	4:DW:1004:ARG:O	2.16	0.42
3:DV:7:GLN:HB2	3:DV:9:PRO:HD2	2.00	0.42
3:DV:138:TYR:C	3:DV:140:ASP:N	2.71	0.42
3:DV:164:HIS:CG	3:DV:164:HIS:O	2.71	0.42
3:DV:175:ILE:HG13	5:DY:15:VAL:HA	1.86	0.42
5:DZ:55:LEU:O	5:DZ:59:VAL:HG23	2.19	0.42
6:EA:97:GLN:O	6:EA:98:MET:C	2.55	0.42
7:ED:41:TRP:NE1	7:ED:266:THR:HG22	2.34	0.42
7:ED:543:ILE:HD12	7:EE:578:LEU:HD21	1.98	0.42
1:AF:334:HIS:NE2	1:AF:336:ASN:O	2.53	0.42
1:AS:145:ASN:CB	1:CW:145:ASN:HD21	2.32	0.42
1:AU:46:ILE:HD13	1:AU:138:LEU:HD11	2.00	0.42
1:BE:83:VAL:HG22	1:BE:84:THR:N	2.35	0.42
1:BE:140:ASP:HA	1:BE:143:LEU:HD12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:96:THR:CA	1:DM:152:VAL:CG2	2.75	0.42
1:BI:98:ASN:H	1:DK:8:VAL:HG12	1.84	0.42
1:BI:213:PHE:HE1	1:BI:218:ILE:HD11	1.84	0.42
1:BP:206:ASN:ND2	1:BP:214:ASP:OD1	2.50	0.42
1:BQ:250:GLU:OE1	1:BQ:258:ARG:NH1	2.50	0.42
1:BW:180:VAL:HG13	1:BW:185:LYS:HZ2	1.84	0.42
1:BW:181:VAL:HG23	1:BW:181:VAL:O	2.20	0.42
1:BX:117:GLY:O	1:BX:120:ILE:HG22	2.20	0.42
1:BY:221:MET:HG3	1:BY:296:PHE:CE2	2.54	0.42
1:CA:83:VAL:HG21	1:CA:164:THR:HA	2.00	0.42
1:CE:87:LEU:HD23	1:CE:87:LEU:H	1.84	0.42
1:CE:339:ALA:HA	1:CU:26:LEU:HD21	2.01	0.42
1:CK:157:ASP:O	1:CK:158:THR:OG1	2.30	0.42
1:CL:248:LEU:O	1:CL:256:ARG:NH2	2.53	0.42
1:CM:45:THR:OG1	1:CM:84:THR:OG1	2.29	0.42
1:CQ:148:ALA:O	1:CQ:152:VAL:HG22	2.19	0.42
1:DE:322:GLU:OE2	1:DE:324:TRP:NE1	2.52	0.42
1:DF:170:LEU:H	1:DF:170:LEU:HD12	1.83	0.42
3:DU:224:SER:H	3:DV:91:VAL:HG12	1.84	0.42
3:DV:99:TYR:HE1	3:DV:103:HIS:CG	2.37	0.42
3:DV:138:TYR:O	3:DV:140:ASP:N	2.52	0.42
4:DW:460:ILE:CG2	4:DW:461:VAL:N	2.83	0.42
7:ED:95:ASP:OD1	7:ED:95:ASP:N	2.51	0.42
1:AC:213:PHE:HE1	1:AC:218:ILE:HD11	1.85	0.42
1:AE:238:ASN:O	1:AE:239:PRO:C	2.58	0.42
1:AG:192:ASP:O	1:AG:193:THR:OG1	2.37	0.42
1:AL:21:ASN:O	1:AL:21:ASN:ND2	2.52	0.42
1:AP:8:VAL:C	1:CS:96:THR:OG1	2.57	0.42
1:AR:145:ASN:OD1	1:AR:146:SER:N	2.53	0.42
1:AT:234:ILE:HG23	1:AT:284:ILE:HD12	2.02	0.42
1:AX:305:MET:N	1:AX:305:MET:SD	2.93	0.42
1:BC:136:ASP:OD1	1:BC:137:VAL:N	2.50	0.42
1:BO:127:ILE:O	1:BO:130:SER:OG	2.22	0.42
1:BS:215:GLU:OE1	1:BS:215:GLU:N	2.53	0.42
1:BW:248:LEU:O	1:BW:252:THR:HG22	2.20	0.42
1:CC:167:PHE:HA	1:CC:170:LEU:HA	2.01	0.42
1:CD:57:VAL:HG23	1:CH:123:ASP:OD1	2.19	0.42
1:CE:69:ALA:HB1	1:CU:90:VAL:HG11	2.02	0.42
1:CF:11:ASP:OD1	1:CF:11:ASP:N	2.53	0.42
1:CN:231:GLU:OE1	1:CN:298:ARG:NH2	2.52	0.42
1:DC:90:VAL:HG11	1:DD:71:ASP:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DG:17:LEU:HD13	1:DG:19:PHE:CZ	2.55	0.42
1:DI:149:ASP:N	1:DI:149:ASP:OD1	2.52	0.42
1:DM:46:ILE:HA	1:DM:83:VAL:HG21	2.02	0.42
1:DM:306:VAL:HG23	1:DM:306:VAL:O	2.19	0.42
1:DP:40:GLU:OE1	1:DP:333:ARG:NH1	2.52	0.42
5:DX:70:LYS:C	5:DZ:77:LYS:NZ	2.72	0.42
7:EE:540:LYS:HA	7:EE:543:ILE:HG22	2.01	0.42
1:AA:49:TRP:NE1	1:AA:334:HIS:O	2.53	0.42
1:AP:103:TYR:HB3	1:CS:16:LYS:HD2	1.66	0.42
1:AU:237:ILE:HG22	1:AU:285:VAL:HA	2.01	0.42
1:BC:218:ILE:O	1:BC:222:THR:HG23	2.19	0.42
1:BP:243:LYS:O	1:BP:247:GLY:N	2.51	0.42
1:CH:180:VAL:HG12	1:CH:181:VAL:N	2.35	0.42
1:CX:96:THR:O	1:CX:100:THR:HG23	2.19	0.42
1:CZ:145:ASN:O	1:CZ:146:SER:CB	2.68	0.42
1:DA:165:GLY:O	1:DA:332:LEU:HD12	2.19	0.42
1:DB:50:GLN:O	1:DF:23:ILE:HG22	2.20	0.42
1:DC:93:VAL:HG12	1:DC:95:ASP:H	1.84	0.42
1:DC:180:VAL:HG22	1:DC:181:VAL:H	1.84	0.42
1:DC:233:ASP:OD2	1:DC:233:ASP:N	2.53	0.42
1:DD:96:THR:O	1:DD:100:THR:N	2.50	0.42
1:DG:290:PRO:O	1:DG:291:THR:HG22	2.19	0.42
1:DK:308:ARG:NH1	1:DK:329:GLU:OE2	2.49	0.42
1:DM:124:LEU:HA	1:DM:127:ILE:HG22	2.02	0.42
2:DR:71:ASP:H	2:DS:75:LEU:HD22	1.84	0.42
2:DS:21:ARG:O	2:DS:21:ARG:HG3	2.20	0.42
2:DT:17:TYR:C	2:DT:19:ARG:N	2.72	0.42
3:DU:25:ASP:HB3	4:DW:973:ASN:HB3	0.69	0.42
3:DV:72:PRO:CD	5:DY:30:GLN:NE2	2.74	0.42
3:DV:178:GLU:O	3:DV:182:TYR:CD2	2.72	0.42
4:DW:995:LEU:O	4:DW:996:THR:OG1	2.32	0.42
7:ED:372:TYR:HD2	7:EE:392:PRO:HG3	1.84	0.42
7:ED:378:LEU:CG	7:EE:401:GLN:HE21	2.33	0.42
1:AD:30:ASP:O	1:AD:31:THR:OG1	2.35	0.42
1:AK:74:MET:H	1:BK:6:LEU:N	2.16	0.42
1:AS:45:THR:HG23	1:CS:99:THR:CB	2.43	0.42
1:AU:64:VAL:HG12	1:AU:65:GLU:N	2.35	0.42
1:AW:100:THR:HG22	1:BN:307:LEU:HB2	1.98	0.42
1:AY:49:TRP:NE1	1:AY:334:HIS:O	2.53	0.42
1:BE:237:ILE:HD13	1:BE:294:VAL:HG22	2.02	0.42
1:BF:74:MET:HE3	1:DK:6:LEU:CG	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BO:301:ASP:O	1:BO:334:HIS:ND1	2.49	0.42
1:BP:145:ASN:OD1	1:BP:146:SER:N	2.53	0.42
1:BU:15:LYS:HG2	1:DP:100:THR:CG2	2.35	0.42
1:BV:306:VAL:HG22	1:BV:330:VAL:HG12	2.01	0.42
1:CL:213:PHE:CE1	1:CL:244:ILE:HG21	2.55	0.42
1:CS:139:ALA:O	1:CS:141:GLN:NE2	2.51	0.42
1:CS:233:ASP:OD2	1:CS:234:ILE:N	2.52	0.42
1:DA:24:SER:O	1:DF:336:ASN:ND2	2.45	0.42
1:DB:315:LEU:HG	1:DB:316:ALA:H	1.84	0.42
1:DO:237:ILE:HG22	1:DO:285:VAL:HA	2.01	0.42
2:DS:18:PRO:HG3	2:DS:30:GLN:HE22	1.85	0.42
3:DU:75:LEU:HD11	3:DU:159:ASP:HA	2.01	0.42
3:DV:53:PRO:HA	3:DV:56:GLU:HG3	2.02	0.42
3:DV:143:SER:O	3:DV:144:PRO:C	2.58	0.42
3:DV:187:HIS:O	3:DV:190:LEU:HB2	2.19	0.42
7:ED:48:LEU:HD13	7:ED:48:LEU:C	2.40	0.42
7:ED:540:LYS:HA	7:ED:543:ILE:HG22	2.01	0.42
7:EE:41:TRP:NE1	7:EE:266:THR:HG22	2.34	0.42
7:EE:48:LEU:C	7:EE:48:LEU:HD13	2.40	0.42
1:AM:251:ASN:OD1	1:AM:251:ASN:N	2.52	0.42
1:AP:148:ALA:C	1:CR:143:LEU:CA	2.80	0.42
1:AR:30:ASP:O	1:AR:31:THR:OG1	2.32	0.42
1:AX:306:VAL:HG22	1:AX:330:VAL:HG12	2.01	0.42
1:AZ:83:VAL:HG22	1:AZ:84:THR:H	1.85	0.42
1:BK:8:VAL:HG22	1:BK:9:SER:N	2.35	0.42
1:BL:213:PHE:HZ	1:BL:245:PHE:CE2	2.38	0.42
1:BM:286:ASN:OD1	1:BM:288:TRP:N	2.52	0.42
1:BQ:136:ASP:OD1	1:BQ:137:VAL:N	2.51	0.42
1:BV:305:MET:N	1:BV:305:MET:SD	2.93	0.42
1:BY:8:VAL:HG22	1:BY:9:SER:H	1.85	0.42
1:CR:336:ASN:O	1:CR:339:ALA:N	2.47	0.42
1:DD:84:THR:HG21	1:DD:307:LEU:HB2	2.02	0.42
1:DI:339:ALA:HB2	1:DQ:26:LEU:HD11	2.01	0.42
1:DN:269:GLU:OE1	1:DP:258:ARG:N	2.53	0.42
3:DU:36:PRO:HA	3:DU:39:ILE:HD12	2.01	0.42
3:DV:59:VAL:O	3:DV:153:ILE:HA	2.19	0.42
3:DV:175:ILE:CG2	3:DV:176:ALA:N	2.82	0.42
5:DX:68:LEU:HD13	5:DX:68:LEU:HA	1.94	0.42
5:DX:85:ALA:CB	5:DX:86:ARG:CZ	2.98	0.42
5:DY:83:GLN:NE2	5:DY:84:ASP:HB3	2.35	0.42
1:AA:152:VAL:O	1:AA:152:VAL:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:83:VAL:HG22	1:AG:84:THR:N	2.35	0.42
1:AP:6:LEU:HA	1:CS:93:VAL:CA	2.49	0.42
1:AS:73:GLU:CG	1:CS:3:ASN:CG	2.81	0.42
1:BE:292:ASP:OD1	1:BE:345:THR:OG1	2.36	0.42
1:BQ:222:THR:HG22	1:BQ:281:TYR:CE2	2.55	0.42
1:BV:308:ARG:NH1	1:BV:327:GLU:OE1	2.50	0.42
1:BY:241:HIS:NE2	1:BY:291:THR:O	2.52	0.42
1:CI:202:GLN:N	1:CI:217:ASP:OD2	2.47	0.42
1:CL:186:ASN:OD1	1:CL:200:VAL:HG23	2.20	0.42
1:CM:263:THR:O	1:CM:264:LYS:HB3	2.19	0.42
1:CN:180:VAL:HG12	1:CN:181:VAL:N	2.34	0.42
1:CN:230:SER:OG	1:CN:231:GLU:N	2.52	0.42
1:CO:225:LEU:O	1:CO:230:SER:OG	2.34	0.42
1:CP:117:GLY:O	1:CP:120:ILE:HG22	2.19	0.42
1:CY:57:VAL:HG23	1:CY:57:VAL:O	2.19	0.42
1:CZ:214:ASP:N	1:CZ:214:ASP:OD1	2.53	0.42
1:DQ:155:LEU:HD12	1:DQ:155:LEU:H	1.84	0.42
3:DU:172:ILE:HG21	3:DU:180:LEU:HD11	2.02	0.42
1:AM:16:LYS:HG3	1:CN:103:TYR:HA	1.66	0.41
1:AM:213:PHE:CZ	1:AM:237:ILE:HD11	2.55	0.41
1:AW:7:PHE:CB	1:BK:93:VAL:HG22	2.31	0.41
1:AW:250:GLU:HG2	1:AW:256:ARG:HB3	2.01	0.41
1:BB:186:ASN:N	1:BB:186:ASN:OD1	2.52	0.41
1:BJ:259:ILE:O	1:BV:261:GLU:HA	2.20	0.41
1:BM:33:PHE:CE1	1:BM:37:THR:HG22	2.55	0.41
1:BO:100:THR:OG1	1:BO:101:ALA:N	2.53	0.41
1:BU:3:ASN:HA	1:DP:115:LYS:NZ	2.35	0.41
1:BX:54:LEU:HD22	1:CB:27:SER:HB3	2.02	0.41
1:BX:131:GLY:HA3	1:BX:180:VAL:HG13	2.01	0.41
1:BY:134:ARG:NE	1:BY:142:TYR:OH	2.53	0.41
1:CA:83:VAL:HG11	1:CA:164:THR:CA	2.47	0.41
1:CG:76:PRO:O	1:CG:77:THR:HG22	2.20	0.41
1:CI:92:ARG:NE	1:CM:71:ASP:OD2	2.53	0.41
1:CN:236:MET:HG3	1:CN:289:MET:SD	2.60	0.41
1:CP:134:ARG:NH1	1:CP:137:VAL:HG22	2.34	0.41
1:CV:237:ILE:HD11	1:CV:241:HIS:CB	2.49	0.41
1:CX:90:VAL:HG12	1:CX:91:VAL:N	2.35	0.41
1:DB:25:VAL:HG23	1:DB:25:VAL:O	2.20	0.41
1:DB:336:ASN:HD22	1:DF:26:LEU:HD11	1.85	0.41
1:DD:117:GLY:O	1:DD:120:ILE:HG22	2.20	0.41
1:DD:131:GLY:N	1:DD:168:GLN:OE1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DJ:87:LEU:HD23	1:DJ:87:LEU:H	1.85	0.41
2:DR:28:ALA:O	2:DR:32:ARG:HG3	2.20	0.41
3:DU:22:LEU:C	3:DU:22:LEU:HD12	2.39	0.41
3:DU:57:LYS:O	3:DU:155:SER:HA	2.20	0.41
3:DU:94:PRO:HG3	3:DU:121:PHE:CE1	2.53	0.41
3:DU:171:THR:CG2	3:DU:172:ILE:N	2.83	0.41
7:ED:519:GLN:HA	7:EE:112:ARG:HE	1.80	0.41
1:AM:8:VAL:HG22	1:AM:9:SER:N	2.35	0.41
1:AP:92:ARG:CG	1:CS:6:LEU:HA	2.47	0.41
1:AP:141:GLN:NE2	1:CR:143:LEU:H	2.17	0.41
1:AT:180:VAL:HG22	1:AT:181:VAL:N	2.35	0.41
1:AU:215:GLU:N	1:AU:215:GLU:OE1	2.53	0.41
1:AU:296:PHE:O	1:AU:341:GLY:N	2.45	0.41
1:AY:90:VAL:HG11	1:BA:70:GLU:O	2.19	0.41
1:BC:238:ASN:O	1:BC:239:PRO:C	2.58	0.41
1:BI:97:ALA:CB	1:DK:11:ASP:N	2.82	0.41
1:BI:144:THR:CG2	1:DH:143:LEU:CG	2.94	0.41
1:BR:210:ASN:C	1:BR:211:ILE:HD13	2.40	0.41
1:BU:3:ASN:OD1	1:DP:115:LYS:CE	2.67	0.41
1:BU:213:PHE:CD1	1:BU:345:THR:HG22	2.55	0.41
1:CD:83:VAL:HG22	1:CD:84:THR:H	1.86	0.41
1:CE:135:THR:HG23	1:CE:135:THR:O	2.19	0.41
1:CK:180:VAL:HG22	1:CK:181:VAL:N	2.35	0.41
1:CL:8:VAL:O	1:CL:9:SER:OG	2.31	0.41
1:DB:39:LYS:HG2	7:ED:16:VAL:CG2	2.50	0.41
1:DC:30:ASP:O	1:DC:31:THR:OG1	2.34	0.41
1:DL:90:VAL:HG12	1:DL:91:VAL:N	2.36	0.41
3:DU:32:VAL:O	3:DU:35:ILE:HB	2.20	0.41
3:DV:51:ARG:O	3:DV:52:ILE:HG23	2.19	0.41
3:DV:62:ASP:HB2	3:DV:64:LYS:NZ	2.35	0.41
3:DV:129:PRO:HB2	3:DV:131:ILE:HD11	2.02	0.41
4:DW:837:PRO:HB2	4:DW:838:ILE:H	1.75	0.41
4:DW:852:ILE:O	4:DW:852:ILE:CG1	2.68	0.41
6:EA:7:ARG:C	6:EA:9:ASN:H	2.22	0.41
6:EB:90:ALA:O	6:EB:91:ILE:C	2.58	0.41
7:ED:76:ILE:O	7:ED:77:ASN:C	2.59	0.41
1:AL:213:PHE:CZ	1:AL:218:ILE:HG12	2.55	0.41
1:AP:321:TYR:HE2	1:CZ:68:ARG:CD	2.31	0.41
1:AQ:33:PHE:O	1:AQ:37:THR:HG23	2.21	0.41
1:AQ:100:THR:OG1	1:AQ:101:ALA:N	2.53	0.41
1:AS:145:ASN:HD22	1:CW:145:ASN:CG	2.16	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:74:MET:HE1	1:BI:92:ARG:O	2.20	0.41
1:BN:64:VAL:HG12	1:BN:65:GLU:N	2.35	0.41
1:BO:33:PHE:O	1:BO:37:THR:HG23	2.20	0.41
1:BP:213:PHE:CE1	1:BP:294:VAL:HG22	2.54	0.41
1:BY:90:VAL:HG12	1:BY:91:VAL:N	2.35	0.41
1:BY:235:ILE:HG12	1:BY:296:PHE:CD1	2.54	0.41
1:CH:303:THR:HG22	1:CH:304:GLN:N	2.35	0.41
1:CM:3:ASN:N	1:CM:4:PRO:CD	2.83	0.41
1:CX:86:ILE:HG22	1:CX:87:LEU:N	2.36	0.41
1:CY:215:GLU:O	1:CY:216:ALA:HB3	2.20	0.41
1:DB:184:THR:O	1:DB:184:THR:HG22	2.21	0.41
1:DG:94:SER:OG	1:DG:95:ASP:N	2.53	0.41
1:DG:239:PRO:O	1:DG:240:ALA:HB3	2.20	0.41
1:DQ:144:THR:HG23	1:DQ:145:ASN:N	2.34	0.41
2:DT:21:ARG:HB3	4:DW:840:SER:HB2	2.03	0.41
2:DT:22:ASP:HA	4:DW:838:ILE:CG1	2.49	0.41
3:DU:41:PHE:N	3:DU:41:PHE:CD1	2.86	0.41
3:DV:13:TYR:CD1	3:DV:17:LYS:HD2	2.56	0.41
5:DY:49:PHE:CE1	5:DZ:52:ILE:HD12	2.55	0.41
5:DZ:69:MET:HE2	5:DZ:69:MET:HB3	1.78	0.41
7:ED:448:ASP:OD1	7:EE:441:ASN:CG	2.59	0.41
7:ED:597:LEU:HD12	7:EE:595:LEU:HD22	2.01	0.41
1:AK:312:ARG:NE	1:AK:312:ARG:HA	2.35	0.41
1:AL:259:ILE:O	1:AX:261:GLU:HA	2.20	0.41
1:AM:6:LEU:HB2	1:CR:71:ASP:HB3	1.76	0.41
1:AP:92:ARG:HH11	1:CS:6:LEU:HB2	1.33	0.41
1:AP:171:CYS:SG	1:AP:340:SER:OG	2.53	0.41
1:AS:250:GLU:OE2	1:AV:256:ARG:NH1	2.50	0.41
1:AY:305:MET:N	1:AY:331:GLY:O	2.47	0.41
1:BB:213:PHE:N	1:BB:213:PHE:CD2	2.89	0.41
1:BD:233:ASP:N	1:BD:233:ASP:OD1	2.53	0.41
1:BI:7:PHE:CZ	1:DM:69:ALA:HB1	2.53	0.41
1:BJ:51:THR:O	1:BJ:51:THR:OG1	2.34	0.41
1:BJ:213:PHE:CZ	1:BJ:218:ILE:HG12	2.55	0.41
1:BP:305:MET:O	1:BP:331:GLY:N	2.53	0.41
1:BR:261:GLU:O	1:BR:262:ASN:OD1	2.39	0.41
1:BU:16:LYS:HD2	1:DP:102:ASN:OD1	2.20	0.41
1:CA:33:PHE:O	1:CA:37:THR:HG23	2.20	0.41
1:CA:316:ALA:HB1	1:CX:316:ALA:HB2	2.02	0.41
1:CG:5:THR:O	1:CG:5:THR:HG22	2.19	0.41
1:CG:273:ILE:HG22	1:CG:274:THR:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:200:VAL:O	1:CK:200:VAL:HG13	2.20	0.41
1:CK:211:ILE:HG13	1:CK:212:GLY:N	2.35	0.41
1:CK:263:THR:HG21	1:CZ:262:ASN:OD1	2.21	0.41
1:CN:336:ASN:O	1:CN:339:ALA:N	2.42	0.41
1:CV:117:GLY:O	1:CV:120:ILE:HG22	2.20	0.41
1:DC:91:VAL:HG23	1:DC:112:GLN:CG	2.50	0.41
1:DL:70:GLU:OE2	1:DL:70:GLU:N	2.52	0.41
3:DU:81:MET:HB2	3:DU:86:GLY:O	2.20	0.41
3:DU:159:ASP:OD1	3:DU:159:ASP:N	2.52	0.41
3:DV:23:TRP:N	3:DV:23:TRP:CD1	2.89	0.41
5:DX:58:GLU:O	5:DX:62:LEU:HB2	2.20	0.41
5:DY:21:THR:HG23	5:DY:21:THR:O	2.20	0.41
7:ED:382:TYR:OH	7:EE:396:VAL:HG13	2.20	0.41
1:AD:213:PHE:N	1:AD:213:PHE:CD2	2.89	0.41
1:AN:213:PHE:HZ	1:AN:245:PHE:CE2	2.38	0.41
1:AO:33:PHE:CE1	1:AO:37:THR:HG22	2.55	0.41
1:AP:148:ALA:HA	1:CR:143:LEU:O	2.21	0.41
1:AS:250:GLU:OE1	1:AS:258:ARG:NE	2.50	0.41
1:AW:13:ASN:O	1:BN:79:ILE:HD11	2.19	0.41
1:BC:196:VAL:N	1:BC:224:GLN:OE1	2.50	0.41
1:BI:312:ARG:NE	1:BI:312:ARG:HA	2.35	0.41
1:BQ:164:THR:O	1:BQ:164:THR:HG22	2.21	0.41
1:BX:40:GLU:OE1	1:BX:333:ARG:NH1	2.53	0.41
1:BX:66:GLY:O	1:CB:88:ARG:NH1	2.51	0.41
1:CB:91:VAL:HG11	1:CB:113:LEU:CD1	2.51	0.41
1:CE:256:ARG:HA	1:CE:274:THR:HG22	2.02	0.41
1:CK:215:GLU:CG	1:CK:248:LEU:HD13	2.50	0.41
1:CU:97:ALA:O	1:CU:100:THR:OG1	2.34	0.41
1:DF:46:ILE:O	1:DF:46:ILE:HG23	2.21	0.41
1:DH:277:LEU:HD11	1:DP:239:PRO:HB3	2.03	0.41
2:DT:76:MET:SD	2:DT:76:MET:N	2.87	0.41
3:DU:6:VAL:HG23	3:DU:7:GLN:O	2.21	0.41
3:DU:8:TYR:N	3:DU:9:PRO:CD	2.84	0.41
3:DU:67:VAL:HG23	3:DU:68:ALA:N	2.34	0.41
3:DV:75:LEU:HD11	3:DV:159:ASP:HA	2.03	0.41
3:DV:154:LEU:HD12	3:DV:154:LEU:HA	1.78	0.41
3:DV:219:GLN:O	3:DV:222:SER:CB	2.68	0.41
4:DW:3:LEU:HD12	4:DW:3:LEU:C	2.41	0.41
4:DW:838:ILE:O	4:DW:840:SER:N	2.53	0.41
5:DX:86:ARG:CA	5:DX:86:ARG:NE	2.64	0.41
7:ED:20:ARG:HH22	7:EE:279:ASP:CA	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:ED:552:LEU:HD23	7:EE:578:LEU:HB3	2.02	0.41
7:EE:87:THR:HG23	7:EE:87:THR:O	2.20	0.41
1:AA:248:LEU:O	1:AA:256:ARG:NH2	2.53	0.41
1:AP:143:LEU:HD22	1:CR:148:ALA:HB2	1.84	0.41
1:AR:206:ASN:ND2	1:AR:214:ASP:OD1	2.50	0.41
1:AX:218:ILE:O	1:AX:222:THR:HG23	2.21	0.41
1:BA:64:VAL:HG12	1:BA:65:GLU:N	2.36	0.41
1:BA:171:CYS:SG	1:BA:340:SER:OG	2.50	0.41
1:BI:143:LEU:O	1:DP:17:LEU:HD13	2.16	0.41
1:BI:238:ASN:OD1	1:BI:240:ALA:N	2.42	0.41
1:BM:83:VAL:HG12	1:BM:134:ARG:HG3	2.03	0.41
1:BN:38:GLY:O	1:BN:304:GLN:N	2.46	0.41
1:BP:218:ILE:O	1:BP:222:THR:HG23	2.21	0.41
1:BU:261:GLU:HA	1:BU:261:GLU:OE1	2.21	0.41
1:CB:93:VAL:HG22	1:CM:7:PHE:CD2	2.55	0.41
1:CD:90:VAL:HG11	1:CL:69:ALA:HB2	2.01	0.41
1:CK:137:VAL:HG22	1:CK:137:VAL:O	2.21	0.41
1:CO:137:VAL:HG22	1:CO:137:VAL:O	2.20	0.41
1:CU:234:ILE:HD12	1:CU:299:SER:HB3	2.02	0.41
1:CW:88:ARG:NH1	1:CZ:64:VAL:O	2.46	0.41
1:CY:213:PHE:O	1:CY:214:ASP:C	2.59	0.41
1:DF:315:LEU:HD12	1:DF:316:ALA:N	2.36	0.41
1:DG:51:THR:OG1	1:DG:336:ASN:ND2	2.53	0.41
1:DI:69:ALA:HB1	1:DQ:90:VAL:HG21	2.02	0.41
1:DJ:119:GLU:OE2	1:DJ:122:ARG:NE	2.54	0.41
1:DJ:244:ILE:HD12	1:DJ:244:ILE:H	1.85	0.41
1:DO:54:LEU:HD12	1:DO:55:ALA:O	2.20	0.41
3:DU:173:LEU:N	3:DU:173:LEU:CD1	2.83	0.41
3:DV:11:ASN:O	3:DV:12:THR:HG23	2.21	0.41
3:DV:91:VAL:O	3:DV:92:THR:HG23	2.21	0.41
5:DX:50:GLY:O	5:DX:51:THR:O	2.38	0.41
7:ED:536:LEU:HB3	7:ED:565:ILE:HD11	2.01	0.41
7:EE:441:ASN:HB3	7:EE:442:PRO:HD2	2.03	0.41
1:AE:213:PHE:HB2	1:AE:217:ASP:HB2	2.02	0.41
1:AS:76:PRO:N	1:CW:153:ALA:HA	1.93	0.41
1:AW:99:THR:HA	1:BN:308:ARG:CB	2.34	0.41
1:AW:100:THR:OG1	1:BN:44:GLN:O	2.37	0.41
1:BA:213:PHE:HE1	1:BA:218:ILE:HD11	1.85	0.41
1:BB:134:ARG:O	1:BB:135:THR:OG1	2.32	0.41
1:BG:64:VAL:HG11	1:BJ:157:ASP:O	2.19	0.41
1:BI:93:VAL:H	1:DK:7:PHE:CB	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BK:251:ASN:OD1	1:BK:251:ASN:N	2.52	0.41
1:BL:180:VAL:HG12	1:BL:181:VAL:N	2.35	0.41
1:BM:225:LEU:HD22	1:BM:230:SER:CB	2.50	0.41
1:BR:180:VAL:HG22	1:BR:181:VAL:N	2.35	0.41
1:BR:234:ILE:HG23	1:BR:284:ILE:HD12	2.01	0.41
1:BU:334:HIS:NE2	1:BU:340:SER:OG	2.49	0.41
1:BW:144:THR:O	1:BW:146:SER:OG	2.31	0.41
1:BY:273:ILE:HD12	1:BY:283:ILE:HD11	2.03	0.41
1:CG:223:LEU:C	1:CG:223:LEU:HD23	2.40	0.41
1:CI:70:GLU:OE1	1:CI:70:GLU:N	2.54	0.41
1:CK:171:CYS:SG	1:CK:172:ALA:N	2.94	0.41
1:CX:253:GLN:OE1	1:CX:253:GLN:N	2.50	0.41
1:CY:214:ASP:O	1:CY:215:GLU:C	2.58	0.41
1:CY:273:ILE:HG22	1:CY:274:THR:N	2.36	0.41
1:CZ:239:PRO:O	1:CZ:240:ALA:HB3	2.21	0.41
1:DH:173:HIS:HB2	1:DH:181:VAL:HG13	2.03	0.41
2:DR:18:PRO:O	2:DR:19:ARG:HB3	2.21	0.41
3:DU:32:VAL:O	3:DU:35:ILE:N	2.54	0.41
3:DU:63:ILE:HD13	3:DU:68:ALA:HB2	2.02	0.41
3:DU:230:ASN:HD21	7:EE:369:ASN:ND2	2.18	0.41
7:ED:382:TYR:O	7:ED:383:ASP:HB2	2.21	0.41
7:ED:416:ILE:HG22	7:ED:417:ASP:N	2.36	0.41
7:EE:416:ILE:HG22	7:EE:417:ASP:N	2.36	0.41
1:AE:196:VAL:N	1:AE:224:GLN:OE1	2.50	0.41
1:AP:5:THR:HA	1:CS:92:ARG:HG2	1.56	0.41
1:AP:6:LEU:HA	1:CS:93:VAL:N	2.36	0.41
1:AP:16:LYS:HE2	1:CS:103:TYR:CB	2.43	0.41
1:AP:143:LEU:HB3	1:CR:148:ALA:HA	1.37	0.41
1:AR:243:LYS:O	1:AR:247:GLY:N	2.51	0.41
1:AU:238:ASN:O	1:AU:239:PRO:C	2.59	0.41
1:AW:3:ASN:OD1	1:BN:52:ASP:OD1	2.39	0.41
1:AW:11:ASP:N	1:AW:11:ASP:OD1	2.54	0.41
1:AZ:46:ILE:O	1:BD:18:SER:OG	2.39	0.41
1:BA:30:ASP:O	1:BA:31:THR:OG1	2.31	0.41
1:BA:61:ASN:OD1	1:BA:63:HIS:NE2	2.54	0.41
1:BH:211:ILE:HG23	1:BH:212:GLY:N	2.36	0.41
1:BR:263:THR:O	1:BU:249:GLN:NE2	2.54	0.41
1:BU:250:GLU:HG2	1:BU:256:ARG:HB3	2.02	0.41
1:BW:213:PHE:HD1	1:BW:343:LEU:HD23	1.85	0.41
1:BX:198:VAL:O	1:BX:198:VAL:HG12	2.20	0.41
1:CB:237:ILE:HD11	1:CB:241:HIS:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CF:203:ASN:ND2	1:CF:210:ASN:OD1	2.53	0.41
1:CK:125:GLU:OE2	1:CK:286:ASN:ND2	2.53	0.41
1:CM:141:GLN:O	1:CM:144:THR:HG22	2.21	0.41
1:CS:17:LEU:O	1:CS:18:SER:OG	2.38	0.41
1:CT:210:ASN:OD1	1:CT:211:ILE:N	2.53	0.41
1:DD:40:GLU:O	1:DD:41:SER:OG	2.22	0.41
1:DD:88:ARG:HB2	1:DE:63:HIS:NE2	2.36	0.41
2:DR:28:ALA:HB2	4:DW:847:TRP:CE2	2.55	0.41
3:DU:235:LEU:HD13	3:DU:235:LEU:HA	1.81	0.41
3:DV:66:GLY:C	3:DV:68:ALA:H	2.17	0.41
3:DV:72:PRO:CB	5:DY:28:TYR:CZ	3.04	0.41
3:DV:161:PRO:HD3	5:DY:23:GLY:O	2.21	0.41
7:ED:263:TRP:CE3	7:ED:266:THR:HG21	2.56	0.41
7:ED:456:LEU:HB3	7:EE:438:MET:SD	2.60	0.41
7:ED:458:MET:H	7:EE:438:MET:CE	2.31	0.41
7:ED:660:LYS:HD2	7:EE:658:ASN:HB3	1.99	0.41
7:EE:263:TRP:CE3	7:EE:266:THR:HG21	2.56	0.41
1:AC:64:VAL:HG12	1:AC:65:GLU:N	2.36	0.41
1:AC:222:THR:HB	1:AC:275:ASP:OD2	2.21	0.41
1:AG:292:ASP:OD1	1:AG:345:THR:OG1	2.36	0.41
1:AP:64:VAL:HG12	1:AP:65:GLU:N	2.35	0.41
1:AP:105:ARG:CG	1:CS:15:LYS:HB3	2.36	0.41
1:AR:30:ASP:OD1	1:AR:30:ASP:N	2.54	0.41
1:AS:80:LYS:HA	1:CW:147:ALA:CA	2.48	0.41
1:AU:273:ILE:HD12	1:AU:283:ILE:HD11	2.03	0.41
1:AV:334:HIS:HE2	1:AV:340:SER:HG	1.65	0.41
1:AW:213:PHE:CD1	1:AW:345:THR:HG22	2.55	0.41
1:AX:110:MET:N	1:AX:110:MET:SD	2.93	0.41
1:AZ:78:VAL:HG12	1:AZ:79:ILE:N	2.36	0.41
1:BC:65:GLU:OE2	1:BV:96:THR:HG21	2.21	0.41
1:BC:213:PHE:HE1	1:BC:294:VAL:HG21	1.82	0.41
1:BI:103:TYR:OH	1:DM:145:ASN:OD1	2.38	0.41
1:BN:52:ASP:OD1	1:BN:53:ALA:N	2.52	0.41
1:BO:237:ILE:CD1	1:BO:294:VAL:HG22	2.51	0.41
1:BR:254:GLY:O	1:BR:255:SER:OG	2.33	0.41
1:BS:273:ILE:HD12	1:BS:283:ILE:HD11	2.03	0.41
1:BU:93:VAL:N	1:DP:6:LEU:O	2.45	0.41
1:CB:95:ASP:O	1:CQ:308:ARG:NH2	2.54	0.41
1:CD:96:THR:O	1:CD:96:THR:HG22	2.21	0.41
1:CD:108:GLU:OE2	1:CZ:12:GLN:NE2	2.54	0.41
1:CG:88:ARG:NH1	1:CO:64:VAL:O	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CG:314:GLU:CG	1:CG:314:GLU:O	2.68	0.41
1:CI:90:VAL:HG12	1:CI:91:VAL:N	2.36	0.41
1:CJ:286:ASN:OD1	1:CJ:288:TRP:N	2.53	0.41
1:CK:70:GLU:O	1:CZ:90:VAL:HG11	2.21	0.41
1:CL:73:GLU:HG3	1:CL:73:GLU:O	2.20	0.41
1:CO:177:ALA:N	1:CO:180:VAL:O	2.40	0.41
1:CR:290:PRO:O	1:CR:291:THR:HG22	2.21	0.41
1:CS:30:ASP:N	1:CS:30:ASP:OD1	2.53	0.41
1:CU:87:LEU:HD23	1:CU:87:LEU:H	1.85	0.41
1:CW:70:GLU:HA	1:CW:70:GLU:OE2	2.21	0.41
1:CZ:203:ASN:O	1:CZ:206:ASN:ND2	2.51	0.41
1:CZ:293:ALA:HB2	1:CZ:344:PHE:HD1	1.85	0.41
1:DA:23:ILE:HG22	1:DF:50:GLN:O	2.21	0.41
1:DA:315:LEU:N	1:DA:315:LEU:HD23	2.36	0.41
1:DB:12:GLN:HE22	3:DV:234:ARG:NH2	2.19	0.41
1:DD:79:ILE:H	1:DD:79:ILE:HD12	1.85	0.41
1:DE:326:ILE:HG23	1:DE:326:ILE:O	2.21	0.41
1:DF:277:LEU:HD11	1:DF:279:GLN:HB2	2.02	0.41
1:DG:152:VAL:O	1:DG:152:VAL:HG22	2.20	0.41
1:DH:142:TYR:O	1:DH:143:LEU:HB2	2.21	0.41
1:DJ:273:ILE:O	1:DJ:281:TYR:N	2.54	0.41
1:DM:314:GLU:OE1	1:DM:314:GLU:N	2.54	0.41
1:DP:31:THR:CG2	1:DP:34:VAL:HG22	2.51	0.41
2:DR:44:ASN:OD1	2:DR:44:ASN:N	2.53	0.41
2:DS:32:ARG:HA	2:DS:32:ARG:HD2	1.92	0.41
3:DU:26:ARG:N	4:DW:973:ASN:ND2	2.68	0.41
3:DU:128:TYR:HB3	3:DU:129:PRO:HD3	2.03	0.41
3:DV:41:PHE:N	3:DV:41:PHE:CD1	2.89	0.41
3:DV:44:LYS:NZ	5:DX:14:ASN:O	2.53	0.41
3:DV:44:LYS:CE	5:DX:14:ASN:OD1	2.66	0.41
3:DV:78:GLN:HG2	3:DV:155:SER:O	2.21	0.41
3:DV:171:THR:CG2	3:DV:172:ILE:N	2.84	0.41
3:DV:232:MET:HE3	3:DV:232:MET:HB3	1.95	0.41
5:DX:71:GLN:CA	5:DZ:77:LYS:NZ	2.84	0.41
5:DY:86:ARG:HA	5:DY:86:ARG:HD3	1.94	0.41
6:EC:83:ILE:O	6:EC:84:THR:C	2.58	0.41
1:AB:46:ILE:O	1:AF:18:SER:OG	2.39	0.41
1:AO:33:PHE:O	1:AO:37:THR:HG23	2.21	0.41
1:AS:74:MET:HB3	1:CW:155:LEU:HG	2.03	0.41
1:AS:222:THR:HG22	1:AS:281:TYR:CE2	2.55	0.41
1:AT:261:GLU:O	1:AT:262:ASN:OD1	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:263:THR:O	1:AW:249:GLN:NE2	2.54	0.41
1:AZ:33:PHE:N	1:AZ:125:GLU:OE2	2.48	0.41
1:AZ:193:THR:HG21	1:AZ:227:THR:O	2.21	0.41
1:BA:180:VAL:HG22	1:BA:181:VAL:N	2.36	0.41
1:BA:222:THR:HB	1:BA:275:ASP:OD2	2.21	0.41
1:BB:145:ASN:OD1	1:BB:146:SER:N	2.53	0.41
1:BE:64:VAL:HG12	1:BE:65:GLU:N	2.35	0.41
1:BK:213:PHE:CZ	1:BK:237:ILE:HD11	2.55	0.41
1:BU:6:LEU:HG	1:DP:94:SER:HA	2.03	0.41
1:BW:168:GLN:NE2	1:BW:344:PHE:CZ	2.88	0.41
1:CB:40:GLU:OE1	1:CB:333:ARG:NH1	2.54	0.41
1:CD:213:PHE:O	1:CD:213:PHE:CG	2.74	0.41
1:CD:237:ILE:O	1:CD:285:VAL:HA	2.21	0.41
1:CI:208:THR:O	1:CI:208:THR:HG22	2.20	0.41
1:CS:18:SER:OG	1:CW:46:ILE:O	2.39	0.41
1:CS:21:ASN:OD1	1:CS:22:TRP:N	2.53	0.41
1:CW:127:ILE:HD11	1:CZ:60:ASN:HB3	2.02	0.41
1:CY:336:ASN:O	1:CY:339:ALA:N	2.48	0.41
1:CZ:298:ARG:O	1:CZ:299:SER:HB3	2.21	0.41
1:DC:231:GLU:N	1:DC:231:GLU:OE1	2.55	0.41
1:DG:98:ASN:O	1:DG:100:THR:HG23	2.21	0.41
1:DG:177:ALA:N	1:DG:180:VAL:O	2.49	0.41
1:DG:210:ASN:O	1:DG:210:ASN:ND2	2.54	0.41
1:DH:196:VAL:HG12	1:DH:198:VAL:O	2.21	0.41
1:DL:231:GLU:N	1:DL:231:GLU:OE2	2.54	0.41
1:DM:117:GLY:O	1:DM:120:ILE:HG22	2.21	0.41
1:DO:56:SER:OG	1:DO:57:VAL:N	2.54	0.41
1:DO:213:PHE:HD1	1:DO:218:ILE:HD11	1.86	0.41
3:DU:51:ARG:O	3:DU:52:ILE:HG23	2.21	0.41
4:DW:928:PHE:CD1	4:DW:928:PHE:N	2.87	0.41
5:DY:81:LYS:O	5:DY:82:ASP:C	2.59	0.41
7:ED:608:GLN:OE1	7:EE:602:ALA:HB2	2.18	0.41
1:AC:61:ASN:OD1	1:AC:63:HIS:NE2	2.54	0.40
1:AE:122:ARG:NH1	1:AF:192:ASP:OD1	2.48	0.40
1:AJ:211:ILE:HG23	1:AJ:212:GLY:N	2.36	0.40
1:AP:104:GLY:O	1:CS:13:ASN:O	2.39	0.40
1:AR:183:LYS:NZ	1:AR:292:ASP:OD2	2.38	0.40
1:AR:305:MET:O	1:AR:331:GLY:N	2.53	0.40
1:AS:69:ALA:CB	1:CS:5:THR:HG23	2.48	0.40
1:BA:136:ASP:OD1	1:BA:137:VAL:N	2.54	0.40
1:BR:238:ASN:O	1:BR:239:PRO:C	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BV:110:MET:N	1:BV:110:MET:SD	2.94	0.40
1:CD:25:VAL:HG23	1:CD:25:VAL:O	2.21	0.40
1:CF:253:GLN:OE1	1:CF:253:GLN:N	2.44	0.40
1:CN:85:GLN:HB2	1:CN:164:THR:HG23	2.02	0.40
1:CP:105:ARG:NH2	1:CP:108:GLU:OE2	2.54	0.40
1:CU:91:VAL:O	1:CU:91:VAL:HG13	2.20	0.40
1:CU:279:GLN:OE1	1:CU:281:TYR:OH	2.39	0.40
1:CZ:9:SER:O	1:CZ:9:SER:OG	2.36	0.40
1:DD:144:THR:O	1:DD:145:ASN:CB	2.69	0.40
1:DG:296:PHE:N	1:DG:341:GLY:O	2.54	0.40
1:DI:21:ASN:O	1:DI:21:ASN:ND2	2.54	0.40
1:DJ:293:ALA:O	1:DJ:294:VAL:C	2.59	0.40
3:DU:95:GLU:OE2	7:EE:385:ARG:HG3	2.21	0.40
3:DU:234:ARG:O	3:DU:235:LEU:HB2	2.20	0.40
3:DV:27:ASP:N	3:DV:27:ASP:OD2	2.48	0.40
4:DW:311:LEU:HD11	4:DW:372:ARG:NH2	2.25	0.40
5:DX:25:ILE:HD12	5:DX:25:ILE:HA	1.96	0.40
7:ED:87:THR:HG23	7:ED:87:THR:O	2.20	0.40
7:ED:611:SER:HB3	7:EE:606:ASN:HD22	1.86	0.40
1:AB:83:VAL:HG22	1:AB:84:THR:H	1.85	0.40
1:AF:233:ASP:OD1	1:AF:233:ASP:N	2.53	0.40
1:AH:283:ILE:HD12	1:AH:283:ILE:N	2.36	0.40
1:AM:16:LYS:HG2	1:CN:103:TYR:H	1.70	0.40
1:AM:246:ALA:O	1:AM:258:ARG:NH1	2.49	0.40
1:AO:83:VAL:HG12	1:AO:134:ARG:HG3	2.03	0.40
1:AO:131:GLY:O	1:AO:181:VAL:N	2.47	0.40
1:AQ:237:ILE:CD1	1:AQ:294:VAL:HG22	2.52	0.40
1:AR:251:ASN:O	1:AR:252:THR:HG22	2.21	0.40
1:AS:88:ARG:NE	1:AS:327:GLU:OE2	2.54	0.40
1:BB:219:PHE:O	1:BB:222:THR:OG1	2.29	0.40
1:BK:230:SER:OG	1:BK:339:ALA:O	2.39	0.40
1:BN:113:LEU:O	1:BN:117:GLY:N	2.51	0.40
1:BS:238:ASN:O	1:BS:239:PRO:C	2.59	0.40
1:BV:218:ILE:O	1:BV:222:THR:HG23	2.21	0.40
1:BY:124:LEU:HD13	1:BY:330:VAL:HG11	2.04	0.40
1:BY:266:PHE:O	1:BY:266:PHE:CG	2.72	0.40
1:CG:136:ASP:OD1	1:CG:137:VAL:N	2.49	0.40
1:CR:82:ASN:OD1	1:CR:165:GLY:N	2.54	0.40
1:CR:87:LEU:HB2	1:CR:120:ILE:HD11	2.02	0.40
1:CV:259:ILE:HD11	1:CY:259:ILE:HB	2.02	0.40
1:CX:252:THR:HG1	1:CX:256:ARG:H	1.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CZ:117:GLY:O	1:CZ:120:ILE:HG22	2.21	0.40
1:DB:141:GLN:O	1:DB:144:THR:OG1	2.38	0.40
1:DD:42:ILE:O	1:DD:43:ASN:HB3	2.21	0.40
1:DH:248:LEU:C	1:DH:248:LEU:HD23	2.41	0.40
3:DU:129:PRO:HB2	3:DU:131:ILE:HD11	2.03	0.40
3:DV:7:GLN:HG3	3:DV:9:PRO:O	2.21	0.40
5:DY:42:ALA:HB1	5:DZ:41:TRP:CE3	2.57	0.40
7:ED:343:GLN:NE2	7:EE:65:TRP:NE1	2.67	0.40
7:ED:409:TYR:HA	7:EE:375:TYR:HH	1.78	0.40
7:ED:443:ASP:OD1	7:ED:444:VAL:N	2.54	0.40
7:EE:226:ARG:HD3	7:EE:290:TYR:CE2	2.57	0.40
1:AG:64:VAL:HG12	1:AG:65:GLU:N	2.35	0.40
1:AM:299:SER:OG	1:AM:299:SER:O	2.39	0.40
1:AS:90:VAL:HG11	1:AV:70:GLU:O	2.21	0.40
1:AY:248:LEU:O	1:AY:256:ARG:NH2	2.53	0.40
1:BB:17:LEU:O	1:BB:18:SER:OG	2.28	0.40
1:BF:92:ARG:NH2	1:BL:74:MET:SD	2.94	0.40
1:BF:283:ILE:N	1:BF:283:ILE:HD12	2.36	0.40
1:BI:74:MET:CG	1:DP:4:PRO:HB2	2.50	0.40
1:BQ:90:VAL:HG11	1:BT:70:GLU:O	2.21	0.40
1:BS:64:VAL:HG12	1:BS:65:GLU:N	2.35	0.40
1:BY:326:ILE:HG22	1:BY:327:GLU:N	2.35	0.40
1:CA:238:ASN:O	1:CA:239:PRO:C	2.60	0.40
1:CB:52:ASP:OD1	1:CB:53:ALA:N	2.54	0.40
1:CB:317:LYS:O	1:CB:318:ASP:OD1	2.39	0.40
1:CC:57:VAL:HG22	1:CC:58:ASP:N	2.37	0.40
1:CD:187:GLY:N	1:CD:198:VAL:O	2.51	0.40
1:CL:263:THR:HG22	1:CL:265:GLN:H	1.85	0.40
1:CN:31:THR:HB	1:CN:34:VAL:HG22	2.02	0.40
1:CP:88:ARG:NH1	1:CT:65:GLU:O	2.54	0.40
1:CT:81:SER:O	1:CT:134:ARG:NH2	2.54	0.40
1:CT:298:ARG:NH1	1:CT:301:ASP:OD1	2.52	0.40
1:CZ:231:GLU:O	1:CZ:232:ALA:HB3	2.21	0.40
1:DB:143:LEU:HD22	1:DB:143:LEU:N	2.36	0.40
1:DJ:245:PHE:CD2	1:DJ:283:ILE:HD11	2.57	0.40
1:DN:12:GLN:O	1:DN:15:LYS:NZ	2.54	0.40
1:DN:25:VAL:HG23	1:DN:29:GLN:NE2	2.36	0.40
3:DU:78:GLN:HG2	3:DU:155:SER:O	2.20	0.40
3:DU:79:TRP:CZ2	3:DU:155:SER:HB2	2.56	0.40
3:DV:64:LYS:O	3:DV:65:ASP:OD1	2.40	0.40
3:DV:86:GLY:O	3:DV:87:THR:OG1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DW:460:ILE:HG22	4:DW:461:VAL:N	2.35	0.40
5:DX:59:VAL:HG12	5:DX:63:TYR:CE1	2.51	0.40
7:ED:24:TYR:CD2	7:EE:277:GLY:CA	3.04	0.40
7:ED:441:ASN:HB3	7:ED:442:PRO:HD2	2.03	0.40
1:AA:285:VAL:HG11	1:AC:277:LEU:HD22	2.03	0.40
1:AF:52:ASP:OD1	1:AF:53:ALA:N	2.48	0.40
1:AO:213:PHE:HB3	1:AO:244:ILE:HD13	2.03	0.40
1:AO:225:LEU:HD22	1:AO:230:SER:CB	2.50	0.40
1:AP:92:ARG:CG	1:CS:6:LEU:CA	2.98	0.40
1:AS:164:THR:HG22	1:AS:164:THR:O	2.21	0.40
1:AW:6:LEU:HD21	1:BK:92:ARG:HH11	1.54	0.40
1:AW:11:ASP:O	1:BN:76:PRO:HB3	2.21	0.40
1:BG:214:ASP:N	1:BG:214:ASP:OD2	2.55	0.40
1:BJ:171:CYS:HG	1:BJ:340:SER:HG	1.68	0.40
1:BP:30:ASP:N	1:BP:30:ASP:OD1	2.54	0.40
1:BX:322:GLU:N	1:BX:322:GLU:OE1	2.54	0.40
1:CA:42:ILE:O	1:CA:43:ASN:CB	2.70	0.40
1:CB:64:VAL:HG12	1:CB:65:GLU:N	2.36	0.40
1:CD:83:VAL:HG22	1:CD:84:THR:N	2.36	0.40
1:CE:286:ASN:OD1	1:CE:287:ARG:N	2.54	0.40
1:CF:213:PHE:CD1	1:CF:218:ILE:HD11	2.56	0.40
1:CM:152:VAL:O	1:CM:152:VAL:HG12	2.21	0.40
1:CN:33:PHE:CG	1:CN:129:LEU:HD21	2.56	0.40
1:CR:82:ASN:ND2	1:CR:332:LEU:O	2.50	0.40
1:CU:141:GLN:O	1:CU:144:THR:HG22	2.20	0.40
1:CZ:162:ARG:O	1:CZ:164:THR:HG23	2.22	0.40
1:DB:138:LEU:HD23	1:DB:141:GLN:O	2.21	0.40
1:DH:49:TRP:NE1	1:DH:334:HIS:O	2.54	0.40
1:DK:219:PHE:O	1:DK:223:LEU:HD13	2.21	0.40
1:DM:238:ASN:ND2	1:DM:291:THR:HG22	2.36	0.40
3:DU:22:LEU:HD11	3:DV:191:PHE:HZ	1.86	0.40
3:DV:65:ASP:HA	3:DV:131:ILE:O	2.20	0.40
3:DV:69:TYR:HE2	5:DZ:28:TYR:HE2	1.69	0.40
4:DW:278:THR:O	4:DW:278:THR:HG22	2.22	0.40
4:DW:295:SER:O	4:DW:296:LEU:HD23	2.22	0.40
4:DW:487:TRP:CG	4:DW:505:ILE:HG13	2.56	0.40
5:DY:49:PHE:O	5:DY:50:GLY:C	2.59	0.40
7:ED:94:GLN:HE21	7:EE:502:ARG:CG	2.34	0.40
7:ED:226:ARG:HD3	7:ED:290:TYR:CE2	2.56	0.40
7:ED:557:GLN:OE1	7:EE:577:TYR:O	2.38	0.40
7:EE:95:ASP:OD1	7:EE:95:ASP:N	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EE:654:MET:SD	7:EE:655:THR:N	2.95	0.40
1:AA:13:ASN:OD1	1:AC:148:ALA:HB2	2.21	0.40
1:AD:143:LEU:HB3	1:AL:144:THR:O	2.22	0.40
1:AE:64:VAL:HG12	1:AE:65:GLU:N	2.37	0.40
1:AH:259:ILE:HG13	1:AK:259:ILE:CD1	2.52	0.40
1:AP:147:ALA:H	1:CR:142:TYR:HB3	1.85	0.40
1:AR:186:ASN:OD1	1:AR:186:ASN:N	2.55	0.40
1:AR:218:ILE:O	1:AR:222:THR:HG23	2.21	0.40
1:AS:155:LEU:HD13	1:AS:158:THR:OG1	2.22	0.40
1:AS:250:GLU:OE1	1:AS:258:ARG:NH1	2.50	0.40
1:AW:104:GLY:HA2	1:BK:16:LYS:HE3	2.01	0.40
1:AX:32:PRO:O	1:AX:35:SER:OG	2.38	0.40
1:AY:13:ASN:OD1	1:BA:148:ALA:HB2	2.21	0.40
1:BQ:237:ILE:HG22	1:BQ:285:VAL:HA	2.03	0.40
1:BU:5:THR:CA	1:DH:74:MET:HB3	2.25	0.40
1:BU:11:ASP:N	1:BU:11:ASP:OD1	2.54	0.40
1:BW:166:ALA:O	1:BW:170:LEU:HD23	2.22	0.40
1:CA:144:THR:N	1:CA:146:SER:OG	2.55	0.40
1:CE:237:ILE:CG1	1:CE:285:VAL:HG12	2.50	0.40
1:CJ:31:THR:HB	1:CJ:34:VAL:HG12	2.03	0.40
1:CO:25:VAL:O	1:CO:25:VAL:HG13	2.20	0.40
1:CP:113:LEU:HD21	1:CP:312:ARG:HD3	2.03	0.40
1:CQ:328:MET:HG2	1:CQ:330:VAL:HG13	2.04	0.40
1:CS:34:VAL:HG13	1:CS:39:LYS:HZ3	1.86	0.40
1:CY:303:THR:OG1	1:CY:304:GLN:N	2.53	0.40
1:DC:90:VAL:O	1:DC:90:VAL:HG13	2.21	0.40
1:DD:86:ILE:HA	1:DD:329:GLU:HA	2.03	0.40
1:DM:47:PHE:CE2	1:DM:83:VAL:HG22	2.57	0.40
1:DP:262:ASN:OD1	1:DP:263:THR:N	2.55	0.40
3:DU:26:ARG:HD2	4:DW:974:HIS:HA	1.56	0.40
3:DU:146:ILE:HG23	3:DU:146:ILE:O	2.21	0.40
3:DV:209:LEU:O	3:DV:212:MET:N	2.46	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AA	345/352 (98%)	327 (95%)	18 (5%)	0	100	100
1	AB	345/352 (98%)	318 (92%)	27 (8%)	0	100	100
1	AC	342/352 (97%)	320 (94%)	22 (6%)	0	100	100
1	AD	345/352 (98%)	321 (93%)	24 (7%)	0	100	100
1	AE	344/352 (98%)	308 (90%)	36 (10%)	0	100	100
1	AF	344/352 (98%)	317 (92%)	27 (8%)	0	100	100
1	AG	345/352 (98%)	314 (91%)	31 (9%)	0	100	100
1	AH	345/352 (98%)	319 (92%)	26 (8%)	0	100	100
1	AI	345/352 (98%)	322 (93%)	23 (7%)	0	100	100
1	AJ	345/352 (98%)	313 (91%)	32 (9%)	0	100	100
1	AK	345/352 (98%)	318 (92%)	27 (8%)	0	100	100
1	AL	345/352 (98%)	313 (91%)	32 (9%)	0	100	100
1	AM	342/352 (97%)	319 (93%)	22 (6%)	1 (0%)	41	77
1	AN	342/352 (97%)	311 (91%)	31 (9%)	0	100	100
1	AO	342/352 (97%)	315 (92%)	27 (8%)	0	100	100
1	AP	345/352 (98%)	318 (92%)	27 (8%)	0	100	100
1	AQ	345/352 (98%)	321 (93%)	24 (7%)	0	100	100
1	AR	345/352 (98%)	324 (94%)	21 (6%)	0	100	100
1	AS	344/352 (98%)	316 (92%)	28 (8%)	0	100	100
1	AT	344/352 (98%)	309 (90%)	35 (10%)	0	100	100
1	AU	344/352 (98%)	300 (87%)	44 (13%)	0	100	100
1	AV	344/352 (98%)	320 (93%)	24 (7%)	0	100	100
1	AW	344/352 (98%)	319 (93%)	25 (7%)	0	100	100
1	AX	344/352 (98%)	321 (93%)	23 (7%)	0	100	100
1	AY	345/352 (98%)	327 (95%)	18 (5%)	0	100	100
1	AZ	345/352 (98%)	319 (92%)	26 (8%)	0	100	100
1	BA	342/352 (97%)	319 (93%)	23 (7%)	0	100	100
1	BB	345/352 (98%)	320 (93%)	25 (7%)	0	100	100
1	BC	344/352 (98%)	308 (90%)	36 (10%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	BD	344/352 (98%)	319 (93%)	25 (7%)	0	100	100
1	BE	345/352 (98%)	314 (91%)	31 (9%)	0	100	100
1	BF	345/352 (98%)	319 (92%)	26 (8%)	0	100	100
1	BG	345/352 (98%)	323 (94%)	22 (6%)	0	100	100
1	BH	345/352 (98%)	314 (91%)	31 (9%)	0	100	100
1	BI	345/352 (98%)	316 (92%)	29 (8%)	0	100	100
1	BJ	345/352 (98%)	315 (91%)	30 (9%)	0	100	100
1	BK	342/352 (97%)	319 (93%)	22 (6%)	1 (0%)	41	77
1	BL	342/352 (97%)	311 (91%)	31 (9%)	0	100	100
1	BM	342/352 (97%)	316 (92%)	26 (8%)	0	100	100
1	BN	345/352 (98%)	318 (92%)	27 (8%)	0	100	100
1	BO	345/352 (98%)	321 (93%)	24 (7%)	0	100	100
1	BP	345/352 (98%)	323 (94%)	22 (6%)	0	100	100
1	BQ	344/352 (98%)	317 (92%)	27 (8%)	0	100	100
1	BR	344/352 (98%)	308 (90%)	36 (10%)	0	100	100
1	BS	344/352 (98%)	300 (87%)	44 (13%)	0	100	100
1	BT	344/352 (98%)	320 (93%)	24 (7%)	0	100	100
1	BU	344/352 (98%)	320 (93%)	24 (7%)	0	100	100
1	BV	344/352 (98%)	321 (93%)	23 (7%)	0	100	100
1	BW	343/352 (97%)	286 (83%)	57 (17%)	0	100	100
1	BX	344/352 (98%)	284 (83%)	59 (17%)	1 (0%)	41	77
1	BY	345/352 (98%)	309 (90%)	36 (10%)	0	100	100
1	BZ	343/352 (97%)	308 (90%)	35 (10%)	0	100	100
1	CA	344/352 (98%)	275 (80%)	65 (19%)	4 (1%)	13	50
1	CB	344/352 (98%)	298 (87%)	46 (13%)	0	100	100
1	CC	345/352 (98%)	288 (84%)	56 (16%)	1 (0%)	41	77
1	CD	339/352 (96%)	305 (90%)	34 (10%)	0	100	100
1	CE	344/352 (98%)	322 (94%)	22 (6%)	0	100	100
1	CF	340/352 (97%)	307 (90%)	33 (10%)	0	100	100
1	CG	345/352 (98%)	276 (80%)	68 (20%)	1 (0%)	41	77
1	CH	345/352 (98%)	314 (91%)	31 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	CI	344/352 (98%)	318 (92%)	26 (8%)	0	100	100
1	CJ	345/352 (98%)	315 (91%)	30 (9%)	0	100	100
1	CK	345/352 (98%)	264 (76%)	81 (24%)	0	100	100
1	CL	341/352 (97%)	294 (86%)	47 (14%)	0	100	100
1	CM	344/352 (98%)	324 (94%)	20 (6%)	0	100	100
1	CN	340/352 (97%)	310 (91%)	30 (9%)	0	100	100
1	CO	339/352 (96%)	286 (84%)	53 (16%)	0	100	100
1	CP	343/352 (97%)	306 (89%)	37 (11%)	0	100	100
1	CQ	344/352 (98%)	313 (91%)	31 (9%)	0	100	100
1	CR	343/352 (97%)	307 (90%)	36 (10%)	0	100	100
1	CS	345/352 (98%)	298 (86%)	47 (14%)	0	100	100
1	CT	344/352 (98%)	312 (91%)	32 (9%)	0	100	100
1	CU	344/352 (98%)	319 (93%)	25 (7%)	0	100	100
1	CV	345/352 (98%)	323 (94%)	22 (6%)	0	100	100
1	CW	344/352 (98%)	284 (83%)	60 (17%)	0	100	100
1	CX	344/352 (98%)	328 (95%)	16 (5%)	0	100	100
1	CY	345/352 (98%)	311 (90%)	34 (10%)	0	100	100
1	CZ	345/352 (98%)	285 (83%)	60 (17%)	0	100	100
1	DA	344/352 (98%)	288 (84%)	54 (16%)	2 (1%)	25	66
1	DB	345/352 (98%)	317 (92%)	28 (8%)	0	100	100
1	DC	343/352 (97%)	305 (89%)	38 (11%)	0	100	100
1	DD	344/352 (98%)	290 (84%)	51 (15%)	3 (1%)	17	57
1	DE	344/352 (98%)	302 (88%)	42 (12%)	0	100	100
1	DF	345/352 (98%)	286 (83%)	58 (17%)	1 (0%)	41	77
1	DG	339/352 (96%)	303 (89%)	36 (11%)	0	100	100
1	DH	344/352 (98%)	315 (92%)	29 (8%)	0	100	100
1	DI	345/352 (98%)	313 (91%)	32 (9%)	0	100	100
1	DJ	344/352 (98%)	322 (94%)	22 (6%)	0	100	100
1	DK	341/352 (97%)	303 (89%)	38 (11%)	0	100	100
1	DL	344/352 (98%)	324 (94%)	20 (6%)	0	100	100
1	DM	343/352 (97%)	312 (91%)	31 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	DN	344/352 (98%)	326 (95%)	18 (5%)	0	100	100
1	DO	344/352 (98%)	317 (92%)	27 (8%)	0	100	100
1	DP	344/352 (98%)	327 (95%)	17 (5%)	0	100	100
1	DQ	344/352 (98%)	318 (92%)	26 (8%)	0	100	100
2	DR	261/267 (98%)	212 (81%)	43 (16%)	6 (2%)	6	34
2	DS	261/267 (98%)	219 (84%)	37 (14%)	5 (2%)	8	38
2	DT	261/267 (98%)	222 (85%)	30 (12%)	9 (3%)	3	26
3	DU	218/250 (87%)	163 (75%)	47 (22%)	8 (4%)	3	24
3	DV	218/250 (87%)	170 (78%)	43 (20%)	5 (2%)	6	34
4	DW	904/1005 (90%)	758 (84%)	131 (14%)	15 (2%)	9	42
5	DX	85/786 (11%)	63 (74%)	15 (18%)	7 (8%)	1	12
5	DY	76/786 (10%)	61 (80%)	13 (17%)	2 (3%)	5	31
5	DZ	66/786 (8%)	58 (88%)	7 (11%)	1 (2%)	10	46
6	EA	320/322 (99%)	272 (85%)	33 (10%)	15 (5%)	2	21
6	EB	320/322 (99%)	269 (84%)	37 (12%)	14 (4%)	2	22
6	EC	320/322 (99%)	271 (85%)	32 (10%)	17 (5%)	2	19
7	ED	598/747 (80%)	533 (89%)	56 (9%)	9 (2%)	10	46
7	EE	598/747 (80%)	533 (89%)	57 (10%)	8 (1%)	12	48
All	All	37172/40564 (92%)	33351 (90%)	3685 (10%)	136 (0%)	38	72

All (136) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	DR	6	ASN
2	DR	18	PRO
2	DR	126	ILE
2	DR	139	VAL
2	DR	158	VAL
2	DS	126	ILE
2	DT	6	ASN
2	DT	10	ILE
2	DT	17	TYR
2	DT	18	PRO
2	DT	81	THR
2	DT	126	ILE
3	DU	139	PRO

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Mol	Chain	Res	Type
3	DU	140	ASP
3	DV	67	VAL
3	DV	141	ASP
3	DV	143	SER
3	DV	147	PRO
3	DV	150	ASN
4	DW	39	GLU
5	DX	51	THR
5	DX	52	ILE
5	DX	53	ASP
5	DX	55	LEU
6	EA	16	THR
6	EA	90	ALA
6	EA	91	ILE
6	EA	104	GLU
6	EA	109	ASN
6	EA	113	PRO
6	EA	115	VAL
6	EB	16	THR
6	EB	83	ILE
6	EB	113	PRO
6	EB	114	PRO
6	EC	2	GLY
6	EC	103	THR
6	EC	166	TYR
7	ED	245	GLU
7	ED	382	TYR
7	ED	392	PRO
7	ED	401	GLN
7	EE	382	TYR
7	EE	392	PRO
7	EE	401	GLN
1	CA	44	GLN
2	DR	145	VAL
2	DS	10	ILE
2	DT	23	TYR
3	DU	144	PRO
3	DU	223	GLY
4	DW	341	SER
4	DW	549	THR
4	DW	556	GLN
4	DW	642	ALA

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Mol	Chain	Res	Type
4	DW	676	ASN
4	DW	837	PRO
4	DW	839	TRP
5	DX	49	PHE
5	DX	50	GLY
5	DZ	40	TYR
6	EA	3	ALA
6	EB	3	ALA
6	EB	111	VAL
6	EC	83	ILE
6	EC	90	ALA
6	EC	91	ILE
6	EC	114	PRO
6	EC	180	SER
7	ED	395	VAL
7	ED	454	VAL
7	EE	395	VAL
7	EE	454	VAL
1	CC	168	GLN
1	DD	45	THR
1	DD	145	ASN
4	DW	613	SER
6	EA	167	MET
6	EB	108	ASP
6	EB	167	MET
6	EB	168	LYS
6	EC	104	GLU
7	ED	381	ALA
7	EE	381	ALA
1	AM	142	TYR
1	BK	142	TYR
1	BX	20	ALA
1	CA	145	ASN
1	CG	204	ALA
1	DD	44	GLN
3	DU	143	SER
3	DU	231	ASN
4	DW	151	ASN
5	DX	60	GLU
5	DY	49	PHE
6	EA	4	GLY
6	EA	8	LYS

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Mol	Chain	Res	Type
6	EA	97	GLN
6	EA	105	ASP
6	EB	96	THR
6	EB	166	TYR
6	EC	3	ALA
6	EC	92	ALA
7	ED	504	MET
1	CA	45	THR
1	DA	20	ALA
1	DF	168	GLN
3	DU	138	TYR
4	DW	160	ASN
5	DY	56	ILE
6	EB	85	THR
6	EC	4	GLY
6	EC	5	GLY
6	EC	8	LYS
6	EC	159	ILE
6	EC	167	MET
7	EE	504	MET
1	DA	59	GLY
2	DS	158	VAL
2	DS	176	GLU
3	DU	150	ASN
4	DW	552	TYR
4	DW	838	ILE
6	EA	94	ILE
7	ED	383	ASP
7	EE	383	ASP
2	DT	24	ILE
4	DW	500	VAL
6	EA	274	GLY
6	EB	91	ILE
2	DT	158	VAL
4	DW	207	ILE
6	EB	274	GLY
6	EC	274	GLY
1	CA	42	ILE
2	DS	145	VAL

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AA	286/287 (100%)	279 (98%)	7 (2%)	49	69
1	AB	286/287 (100%)	284 (99%)	2 (1%)	84	90
1	AC	283/287 (99%)	282 (100%)	1 (0%)	91	94
1	AD	286/287 (100%)	281 (98%)	5 (2%)	60	78
1	AE	285/287 (99%)	282 (99%)	3 (1%)	73	84
1	AF	285/287 (99%)	281 (99%)	4 (1%)	67	80
1	AG	286/287 (100%)	282 (99%)	4 (1%)	67	80
1	AH	286/287 (100%)	285 (100%)	1 (0%)	92	95
1	AI	286/287 (100%)	283 (99%)	3 (1%)	76	86
1	AJ	286/287 (100%)	284 (99%)	2 (1%)	84	90
1	AK	286/287 (100%)	282 (99%)	4 (1%)	67	80
1	AL	286/287 (100%)	281 (98%)	5 (2%)	60	78
1	AM	283/287 (99%)	280 (99%)	3 (1%)	73	84
1	AN	283/287 (99%)	281 (99%)	2 (1%)	84	90
1	AO	283/287 (99%)	278 (98%)	5 (2%)	59	77
1	AP	286/287 (100%)	284 (99%)	2 (1%)	84	90
1	AQ	286/287 (100%)	280 (98%)	6 (2%)	53	72
1	AR	286/287 (100%)	281 (98%)	5 (2%)	60	78
1	AS	285/287 (99%)	282 (99%)	3 (1%)	73	84
1	AT	285/287 (99%)	285 (100%)	0	100	100
1	AU	285/287 (99%)	280 (98%)	5 (2%)	59	77
1	AV	285/287 (99%)	282 (99%)	3 (1%)	73	84
1	AW	285/287 (99%)	284 (100%)	1 (0%)	91	94
1	AX	285/287 (99%)	281 (99%)	4 (1%)	67	80
1	AY	286/287 (100%)	279 (98%)	7 (2%)	49	69
1	AZ	286/287 (100%)	284 (99%)	2 (1%)	84	90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	BA	283/287 (99%)	282 (100%)	1 (0%)	91	94
1	BB	286/287 (100%)	281 (98%)	5 (2%)	60	78
1	BC	285/287 (99%)	282 (99%)	3 (1%)	73	84
1	BD	285/287 (99%)	282 (99%)	3 (1%)	73	84
1	BE	286/287 (100%)	282 (99%)	4 (1%)	67	80
1	BF	286/287 (100%)	285 (100%)	1 (0%)	92	95
1	BG	286/287 (100%)	283 (99%)	3 (1%)	76	86
1	BH	286/287 (100%)	284 (99%)	2 (1%)	84	90
1	BI	286/287 (100%)	282 (99%)	4 (1%)	67	80
1	BJ	286/287 (100%)	281 (98%)	5 (2%)	60	78
1	BK	283/287 (99%)	280 (99%)	3 (1%)	73	84
1	BL	283/287 (99%)	281 (99%)	2 (1%)	84	90
1	BM	283/287 (99%)	278 (98%)	5 (2%)	59	77
1	BN	286/287 (100%)	284 (99%)	2 (1%)	84	90
1	BO	286/287 (100%)	281 (98%)	5 (2%)	60	78
1	BP	286/287 (100%)	281 (98%)	5 (2%)	60	78
1	BQ	285/287 (99%)	282 (99%)	3 (1%)	73	84
1	BR	285/287 (99%)	285 (100%)	0	100	100
1	BS	285/287 (99%)	280 (98%)	5 (2%)	59	77
1	BT	285/287 (99%)	282 (99%)	3 (1%)	73	84
1	BU	285/287 (99%)	284 (100%)	1 (0%)	91	94
1	BV	285/287 (99%)	281 (99%)	4 (1%)	67	80
1	BW	285/287 (99%)	284 (100%)	1 (0%)	91	94
1	BX	285/287 (99%)	284 (100%)	1 (0%)	91	94
1	BY	286/287 (100%)	286 (100%)	0	100	100
1	BZ	284/287 (99%)	284 (100%)	0	100	100
1	CA	285/287 (99%)	285 (100%)	0	100	100
1	CB	285/287 (99%)	285 (100%)	0	100	100
1	CC	286/287 (100%)	286 (100%)	0	100	100
1	CD	283/287 (99%)	283 (100%)	0	100	100
1	CE	285/287 (99%)	285 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	CF	281/287 (98%)	281 (100%)	0	100	100
1	CG	286/287 (100%)	286 (100%)	0	100	100
1	CH	286/287 (100%)	284 (99%)	2 (1%)	84	90
1	CI	285/287 (99%)	283 (99%)	2 (1%)	84	90
1	CJ	286/287 (100%)	286 (100%)	0	100	100
1	CK	286/287 (100%)	286 (100%)	0	100	100
1	CL	282/287 (98%)	282 (100%)	0	100	100
1	CM	285/287 (99%)	283 (99%)	2 (1%)	84	90
1	CN	281/287 (98%)	281 (100%)	0	100	100
1	CO	280/287 (98%)	279 (100%)	1 (0%)	91	94
1	CP	284/287 (99%)	284 (100%)	0	100	100
1	CQ	285/287 (99%)	283 (99%)	2 (1%)	84	90
1	CR	284/287 (99%)	283 (100%)	1 (0%)	91	94
1	CS	286/287 (100%)	285 (100%)	1 (0%)	92	95
1	CT	285/287 (99%)	284 (100%)	1 (0%)	91	94
1	CU	285/287 (99%)	283 (99%)	2 (1%)	84	90
1	CV	286/287 (100%)	286 (100%)	0	100	100
1	CW	285/287 (99%)	285 (100%)	0	100	100
1	CX	285/287 (99%)	285 (100%)	0	100	100
1	CY	286/287 (100%)	286 (100%)	0	100	100
1	CZ	286/287 (100%)	286 (100%)	0	100	100
1	DA	285/287 (99%)	285 (100%)	0	100	100
1	DB	286/287 (100%)	286 (100%)	0	100	100
1	DC	284/287 (99%)	284 (100%)	0	100	100
1	DD	285/287 (99%)	285 (100%)	0	100	100
1	DE	285/287 (99%)	284 (100%)	1 (0%)	91	94
1	DF	286/287 (100%)	285 (100%)	1 (0%)	92	95
1	DG	283/287 (99%)	283 (100%)	0	100	100
1	DH	285/287 (99%)	285 (100%)	0	100	100
1	DI	286/287 (100%)	286 (100%)	0	100	100
1	DJ	285/287 (99%)	285 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	DK	282/287 (98%)	282 (100%)	0	100	100
1	DL	285/287 (99%)	285 (100%)	0	100	100
1	DM	284/287 (99%)	284 (100%)	0	100	100
1	DN	285/287 (99%)	285 (100%)	0	100	100
1	DO	285/287 (99%)	285 (100%)	0	100	100
1	DP	285/287 (99%)	285 (100%)	0	100	100
1	DQ	285/287 (99%)	285 (100%)	0	100	100
2	DR	85/227 (37%)	84 (99%)	1 (1%)	71	83
2	DS	86/227 (38%)	84 (98%)	2 (2%)	50	70
2	DT	86/227 (38%)	83 (96%)	3 (4%)	36	59
3	DU	197/223 (88%)	179 (91%)	18 (9%)	9	29
3	DV	197/223 (88%)	183 (93%)	14 (7%)	14	39
4	DW	792/870 (91%)	782 (99%)	10 (1%)	69	81
5	DX	69/640 (11%)	51 (74%)	18 (26%)	0	3
5	DY	64/640 (10%)	41 (64%)	23 (36%)	0	1
5	DZ	56/640 (9%)	45 (80%)	11 (20%)	1	8
7	ED	523/647 (81%)	493 (94%)	30 (6%)	20	45
7	EE	523/647 (81%)	493 (94%)	30 (6%)	20	45
All	All	29746/32476 (92%)	29410 (99%)	336 (1%)	74	84

All (336) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AA	7	PHE
1	AA	19	PHE
1	AA	155	LEU
1	AA	176	LEU
1	AA	243	LYS
1	AA	291	THR
1	AA	313	THR
1	AB	21	ASN
1	AB	126	LYS
1	AC	287	ARG
1	AD	7	PHE
1	AD	19	PHE
1	AD	68	ARG

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Mol	Chain	Res	Type
1	AD	185	LYS
1	AD	186	ASN
1	AE	19	PHE
1	AE	21	ASN
1	AE	143	LEU
1	AF	19	PHE
1	AF	129	LEU
1	AF	143	LEU
1	AF	145	ASN
1	AG	19	PHE
1	AG	155	LEU
1	AG	210	ASN
1	AG	213	PHE
1	AH	336	ASN
1	AI	26	LEU
1	AI	213	PHE
1	AI	349	LYS
1	AJ	7	PHE
1	AJ	60	ASN
1	AK	58	ASP
1	AK	60	ASN
1	AK	213	PHE
1	AK	259	ILE
1	AL	19	PHE
1	AL	60	ASN
1	AL	83	VAL
1	AL	145	ASN
1	AL	167	PHE
1	AM	19	PHE
1	AM	142	TYR
1	AM	213	PHE
1	AN	19	PHE
1	AN	107	ARG
1	AO	13	ASN
1	AO	19	PHE
1	AO	107	ARG
1	AO	213	PHE
1	AO	250	GLU
1	AP	19	PHE
1	AP	213	PHE
1	AQ	19	PHE
1	AQ	140	ASP

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Mol	Chain	Res	Type
1	AQ	143	LEU
1	AQ	210	ASN
1	AQ	274	THR
1	AQ	282	LYS
1	AR	7	PHE
1	AR	98	ASN
1	AR	186	ASN
1	AR	213	PHE
1	AR	258	ARG
1	AS	19	PHE
1	AS	68	ARG
1	AS	275	ASP
1	AU	19	PHE
1	AU	142	TYR
1	AU	143	LEU
1	AU	213	PHE
1	AU	275	ASP
1	AV	19	PHE
1	AV	141	GLN
1	AV	243	LYS
1	AW	258	ARG
1	AX	7	PHE
1	AX	19	PHE
1	AX	123	ASP
1	AX	223	LEU
1	AY	7	PHE
1	AY	19	PHE
1	AY	155	LEU
1	AY	176	LEU
1	AY	243	LYS
1	AY	291	THR
1	AY	313	THR
1	AZ	21	ASN
1	AZ	126	LYS
1	BA	287	ARG
1	BB	7	PHE
1	BB	19	PHE
1	BB	68	ARG
1	BB	185	LYS
1	BB	186	ASN
1	BC	19	PHE
1	BC	21	ASN

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Mol	Chain	Res	Type
1	BC	143	LEU
1	BD	19	PHE
1	BD	129	LEU
1	BD	145	ASN
1	BE	19	PHE
1	BE	155	LEU
1	BE	210	ASN
1	BE	213	PHE
1	BF	336	ASN
1	BG	26	LEU
1	BG	213	PHE
1	BG	349	LYS
1	BH	7	PHE
1	BH	60	ASN
1	BI	58	ASP
1	BI	60	ASN
1	BI	213	PHE
1	BI	259	ILE
1	BJ	19	PHE
1	BJ	60	ASN
1	BJ	83	VAL
1	BJ	145	ASN
1	BJ	167	PHE
1	BK	19	PHE
1	BK	142	TYR
1	BK	213	PHE
1	BL	19	PHE
1	BL	107	ARG
1	BM	13	ASN
1	BM	19	PHE
1	BM	107	ARG
1	BM	213	PHE
1	BM	250	GLU
1	BN	19	PHE
1	BN	213	PHE
1	BO	19	PHE
1	BO	143	LEU
1	BO	210	ASN
1	BO	274	THR
1	BO	282	LYS
1	BP	7	PHE
1	BP	98	ASN

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Mol	Chain	Res	Type
1	BP	186	ASN
1	BP	213	PHE
1	BP	258	ARG
1	BQ	19	PHE
1	BQ	68	ARG
1	BQ	275	ASP
1	BS	19	PHE
1	BS	142	TYR
1	BS	143	LEU
1	BS	213	PHE
1	BS	275	ASP
1	BT	19	PHE
1	BT	141	GLN
1	BT	243	LYS
1	BU	258	ARG
1	BV	7	PHE
1	BV	19	PHE
1	BV	123	ASP
1	BV	223	LEU
1	BW	105	ARG
1	BX	105	ARG
1	CH	107	ARG
1	CH	256	ARG
1	CI	92	ARG
1	CI	122	ARG
1	CM	122	ARG
1	CM	264	LYS
1	CO	68	ARG
1	CQ	122	ARG
1	CQ	298	ARG
1	CR	92	ARG
1	CS	107	ARG
1	CT	256	ARG
1	CU	105	ARG
1	CU	298	ARG
1	DE	312	ARG
1	DF	311	LYS
2	DR	92	LYS
2	DS	23	TYR
2	DS	64	LYS
2	DT	23	TYR
2	DT	24	ILE

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Mol	Chain	Res	Type
2	DT	25	TYR
3	DU	8	TYR
3	DU	15	TRP
3	DU	84	LYS
3	DU	101	ARG
3	DU	117	ASN
3	DU	132	GLU
3	DU	134	ASP
3	DU	135	THR
3	DU	139	PRO
3	DU	143	SER
3	DU	144	PRO
3	DU	150	ASN
3	DU	183	PHE
3	DU	219	GLN
3	DU	230	ASN
3	DU	232	MET
3	DU	234	ARG
3	DU	235	LEU
3	DV	7	GLN
3	DV	8	TYR
3	DV	12	THR
3	DV	26	ARG
3	DV	28	ASP
3	DV	55	LEU
3	DV	140	ASP
3	DV	145	LEU
3	DV	147	PRO
3	DV	183	PHE
3	DV	194	ASP
3	DV	219	GLN
3	DV	232	MET
3	DV	234	ARG
4	DW	71	ASP
4	DW	178	LEU
4	DW	577	VAL
4	DW	608	ARG
4	DW	724	PRO
4	DW	786	TRP
4	DW	838	ILE
4	DW	928	PHE
4	DW	951	TYR

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Mol	Chain	Res	Type
4	DW	1004	ARG
5	DX	14	ASN
5	DX	17	GLN
5	DX	53	ASP
5	DX	56	ILE
5	DX	58	GLU
5	DX	59	VAL
5	DX	61	ARG
5	DX	62	LEU
5	DX	63	TYR
5	DX	65	GLN
5	DX	68	LEU
5	DX	70	LYS
5	DX	77	LYS
5	DX	78	GLN
5	DX	81	LYS
5	DX	82	ASP
5	DX	86	ARG
5	DX	88	MET
5	DY	12	VAL
5	DY	14	ASN
5	DY	24	SER
5	DY	53	ASP
5	DY	54	ASP
5	DY	56	ILE
5	DY	60	GLU
5	DY	61	ARG
5	DY	64	GLN
5	DY	65	GLN
5	DY	67	VAL
5	DY	70	LYS
5	DY	71	GLN
5	DY	77	LYS
5	DY	79	ASP
5	DY	81	LYS
5	DY	82	ASP
5	DY	83	GLN
5	DY	86	ARG
5	DY	87	LEU
5	DY	88	MET
5	DY	90	LEU
5	DY	91	ILE

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Mol	Chain	Res	Type
5	DZ	40	TYR
5	DZ	47	SER
5	DZ	52	ILE
5	DZ	56	ILE
5	DZ	59	VAL
5	DZ	67	VAL
5	DZ	69	MET
5	DZ	71	GLN
5	DZ	79	ASP
5	DZ	80	PHE
5	DZ	83	GLN
7	ED	13	GLU
7	ED	28	TYR
7	ED	93	GLN
7	ED	96	SER
7	ED	133	SER
7	ED	136	LYS
7	ED	230	SER
7	ED	233	ASP
7	ED	288	TRP
7	ED	299	LEU
7	ED	363	TYR
7	ED	376	LYS
7	ED	384	ARG
7	ED	392	PRO
7	ED	406	LEU
7	ED	414	GLN
7	ED	416	ILE
7	ED	420	LEU
7	ED	430	ARG
7	ED	516	HIS
7	ED	517	ASN
7	ED	584	TYR
7	ED	599	MET
7	ED	613	LYS
7	ED	617	ASP
7	ED	621	GLN
7	ED	622	ARG
7	ED	631	LYS
7	ED	637	SER
7	ED	647	GLN
7	EE	13	GLU

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Mol	Chain	Res	Type
7	EE	28	TYR
7	EE	93	GLN
7	EE	96	SER
7	EE	133	SER
7	EE	136	LYS
7	EE	230	SER
7	EE	233	ASP
7	EE	288	TRP
7	EE	299	LEU
7	EE	363	TYR
7	EE	376	LYS
7	EE	384	ARG
7	EE	392	PRO
7	EE	406	LEU
7	EE	414	GLN
7	EE	416	ILE
7	EE	420	LEU
7	EE	430	ARG
7	EE	516	HIS
7	EE	517	ASN
7	EE	584	TYR
7	EE	599	MET
7	EE	613	LYS
7	EE	617	ASP
7	EE	621	GLN
7	EE	622	ARG
7	EE	631	LYS
7	EE	637	SER
7	EE	647	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (212) such sidechains are listed below:

Mol	Chain	Res	Type
1	AA	206	ASN
1	AC	145	ASN
1	AD	98	ASN
1	AE	238	ASN
1	AE	251	ASN
1	AF	206	ASN
1	AG	210	ASN
1	AH	156	ASN
1	AH	202	GLN

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Mol	Chain	Res	Type
1	AH	203	ASN
1	AH	206	ASN
1	AH	210	ASN
1	AH	238	ASN
1	AI	253	GLN
1	AJ	141	GLN
1	AK	251	ASN
1	AK	262	ASN
1	AM	262	ASN
1	AO	102	ASN
1	AO	210	ASN
1	AP	12	GLN
1	AP	60	ASN
1	AS	44	GLN
1	AS	145	ASN
1	AU	63	HIS
1	AU	210	ASN
1	AV	253	GLN
1	AY	206	ASN
1	BA	145	ASN
1	BA	253	GLN
1	BB	98	ASN
1	BC	12	GLN
1	BC	156	ASN
1	BC	238	ASN
1	BC	251	ASN
1	BD	206	ASN
1	BE	210	ASN
1	BF	43	ASN
1	BF	156	ASN
1	BF	202	GLN
1	BF	203	ASN
1	BF	206	ASN
1	BF	210	ASN
1	BF	238	ASN
1	BG	253	GLN
1	BH	141	GLN
1	BI	98	ASN
1	BI	102	ASN
1	BI	251	ASN
1	BK	12	GLN
1	BK	262	ASN

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Mol	Chain	Res	Type
1	BL	249	GLN
1	BM	102	ASN
1	BM	210	ASN
1	BN	44	GLN
1	BS	63	HIS
1	BS	210	ASN
1	BT	253	GLN
1	BW	156	ASN
1	BW	203	ASN
1	BW	249	GLN
1	BX	271	ASN
1	BY	50	GLN
1	BZ	63	HIS
1	BZ	206	ASN
1	CA	12	GLN
1	CB	145	ASN
1	CC	112	GLN
1	CC	262	ASN
1	CC	279	GLN
1	CD	203	ASN
1	CE	168	GLN
1	CE	279	GLN
1	CE	304	GLN
1	CF	145	ASN
1	CF	238	ASN
1	CG	186	ASN
1	CH	50	GLN
1	CI	249	GLN
1	CI	304	GLN
1	CK	145	ASN
1	CK	173	HIS
1	CL	262	ASN
1	CN	12	GLN
1	CN	238	ASN
1	CO	238	ASN
1	CO	251	ASN
1	CP	132	GLN
1	CR	44	GLN
1	CR	61	ASN
1	CR	141	GLN
1	CR	156	ASN
1	CR	279	GLN

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Mol	Chain	Res	Type
1	CS	262	ASN
1	CT	60	ASN
1	CU	102	ASN
1	CU	141	GLN
1	CV	203	ASN
1	CV	265	GLN
1	CW	102	ASN
1	CW	145	ASN
1	CW	279	GLN
1	CX	145	ASN
1	CY	13	ASN
1	CZ	13	ASN
1	CZ	251	ASN
1	DA	203	ASN
1	DA	262	ASN
1	DA	336	ASN
1	DB	50	GLN
1	DB	61	ASN
1	DB	168	GLN
1	DC	145	ASN
1	DC	168	GLN
1	DD	63	HIS
1	DD	202	GLN
1	DD	224	GLN
1	DD	238	ASN
1	DD	334	HIS
1	DE	60	ASN
1	DE	112	GLN
1	DE	145	ASN
1	DF	82	ASN
1	DF	102	ASN
1	DF	112	GLN
1	DF	141	GLN
1	DG	82	ASN
1	DG	141	GLN
1	DG	186	ASN
1	DG	210	ASN
1	DH	29	GLN
1	DH	61	ASN
1	DH	186	ASN
1	DH	253	GLN
1	DH	271	ASN

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Mol	Chain	Res	Type
1	DI	21	ASN
1	DI	85	GLN
1	DI	159	HIS
1	DI	206	ASN
1	DI	265	GLN
1	DJ	168	GLN
1	DJ	241	HIS
1	DJ	265	GLN
1	DJ	336	ASN
1	DK	12	GLN
1	DK	29	GLN
1	DK	145	ASN
1	DK	159	HIS
1	DK	168	GLN
1	DK	224	GLN
1	DL	132	GLN
1	DL	206	ASN
1	DM	29	GLN
1	DM	253	GLN
1	DM	304	GLN
1	DN	145	ASN
1	DN	156	ASN
1	DN	334	HIS
1	DO	241	HIS
1	DO	253	GLN
1	DP	13	ASN
1	DP	61	ASN
1	DP	98	ASN
1	DP	156	ASN
1	DP	286	ASN
1	DQ	61	ASN
1	DQ	112	GLN
1	DQ	156	ASN
1	DQ	203	ASN
1	DQ	251	ASN
3	DU	117	ASN
3	DU	150	ASN
3	DU	199	GLN
3	DU	215	GLN
3	DU	216	ASN
3	DU	219	GLN
3	DU	230	ASN

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Mol	Chain	Res	Type
3	DV	7	GLN
3	DV	11	ASN
3	DV	193	GLN
3	DV	216	ASN
3	DV	219	GLN
4	DW	276	ASN
4	DW	926	ASN
4	DW	967	HIS
5	DY	30	GLN
7	ED	26	GLN
7	ED	69	ASN
7	ED	221	GLN
7	ED	343	GLN
7	ED	401	GLN
7	ED	441	ASN
7	ED	449	ASN
7	ED	459	ASN
7	ED	557	GLN
7	ED	564	GLN
7	ED	585	GLN
7	ED	630	GLN
7	EE	69	ASN
7	EE	77	ASN
7	EE	108	GLN
7	EE	118	ASN
7	EE	125	GLN
7	EE	369	ASN
7	EE	371	ASN
7	EE	401	GLN
7	EE	459	ASN
7	EE	564	GLN
7	EE	585	GLN
7	EE	621	GLN
7	EE	630	GLN
7	EE	644	GLN

5.3.3 RNA ⓘ

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
5	DY	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	DY	81:LYS	C	82:ASP	N	3.02

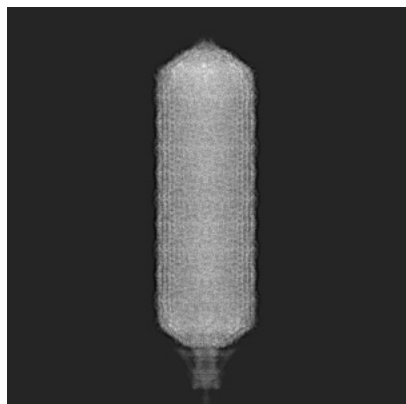
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-14492. These allow visual inspection of the internal detail of the map and identification of artifacts.

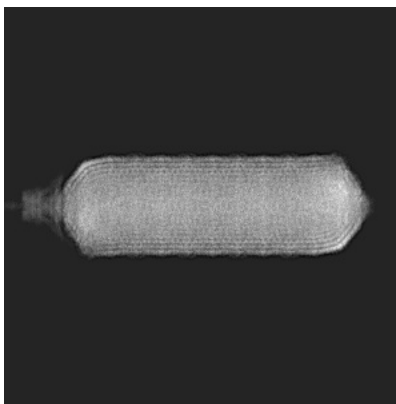
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

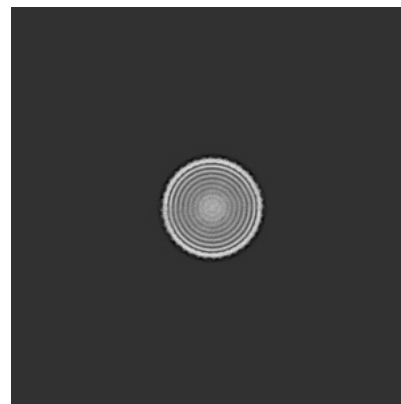
6.1.1 Primary map



X

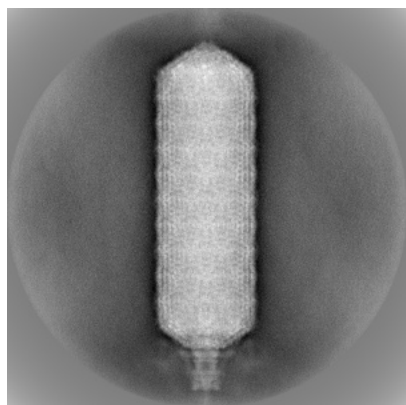


Y

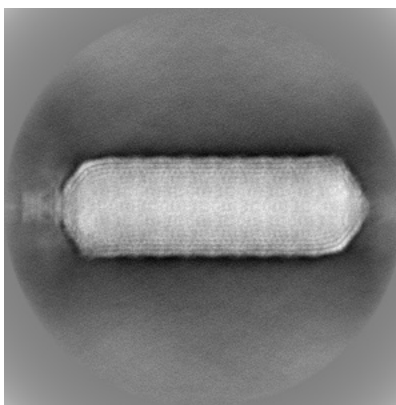


Z

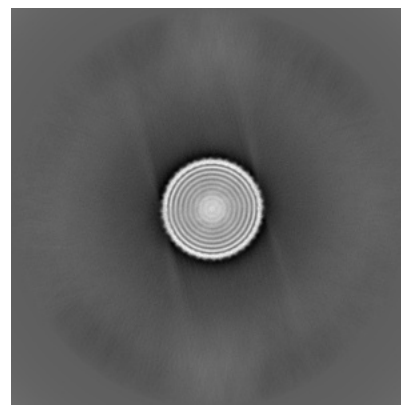
6.1.2 Raw map



X



Y

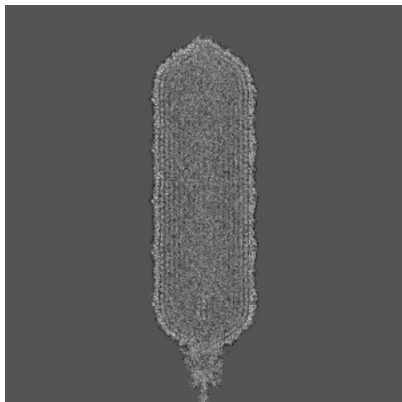


Z

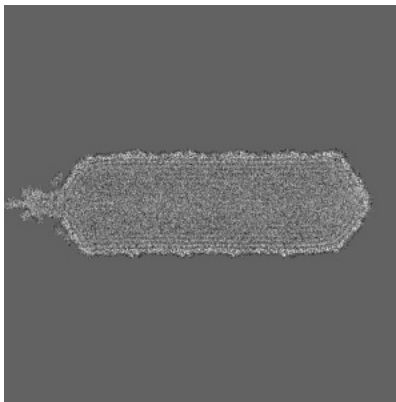
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

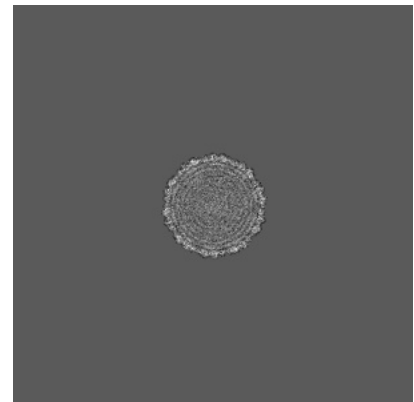
6.2.1 Primary map



X Index: 648

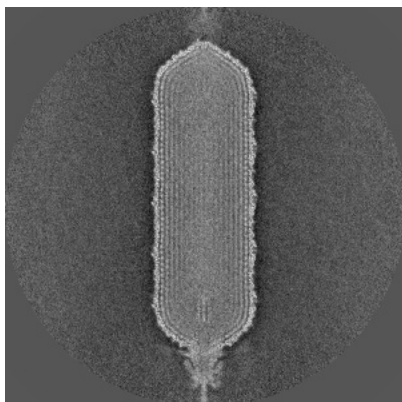


Y Index: 648

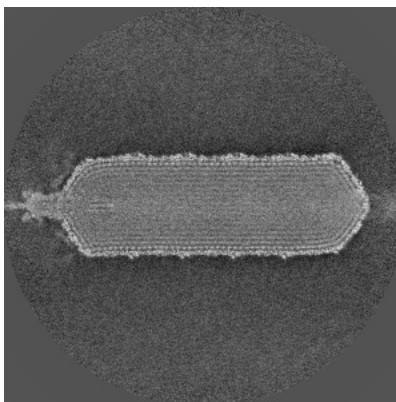


Z Index: 648

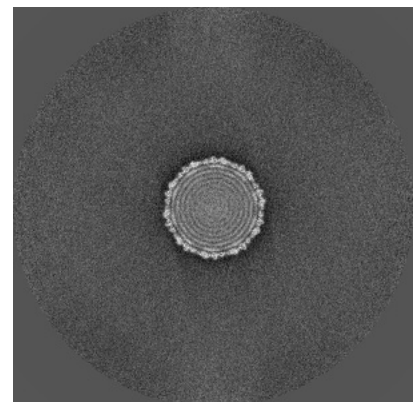
6.2.2 Raw map



X Index: 648



Y Index: 648

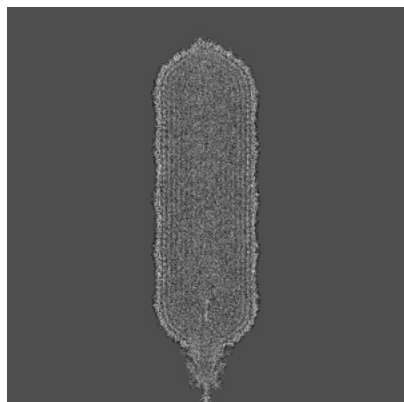


Z Index: 648

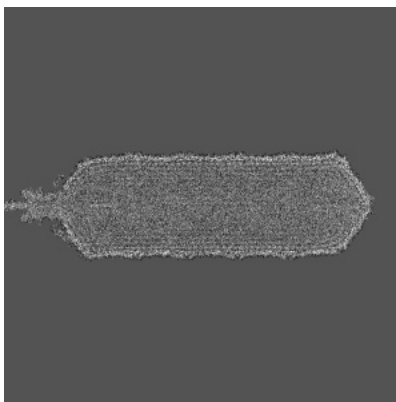
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

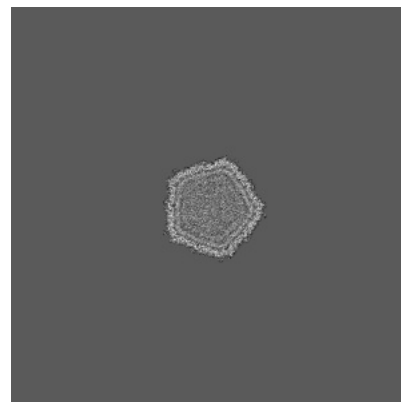
6.3.1 Primary map



X Index: 651

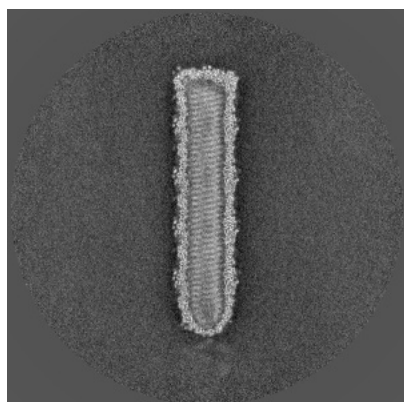


Y Index: 644

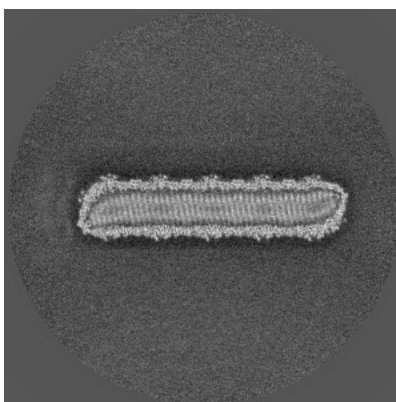


Z Index: 1085

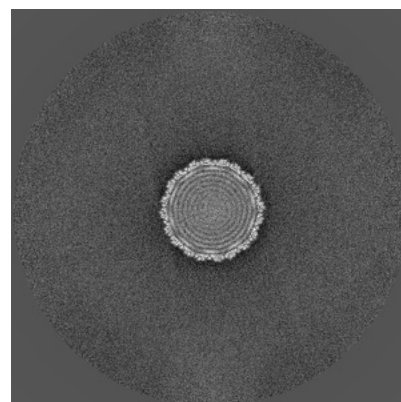
6.3.2 Raw map



X Index: 519



Y Index: 511

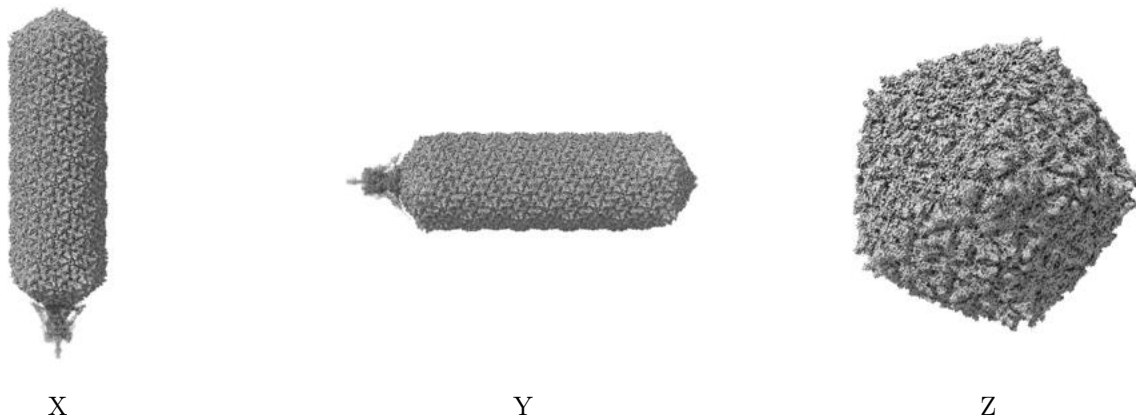


Z Index: 757

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

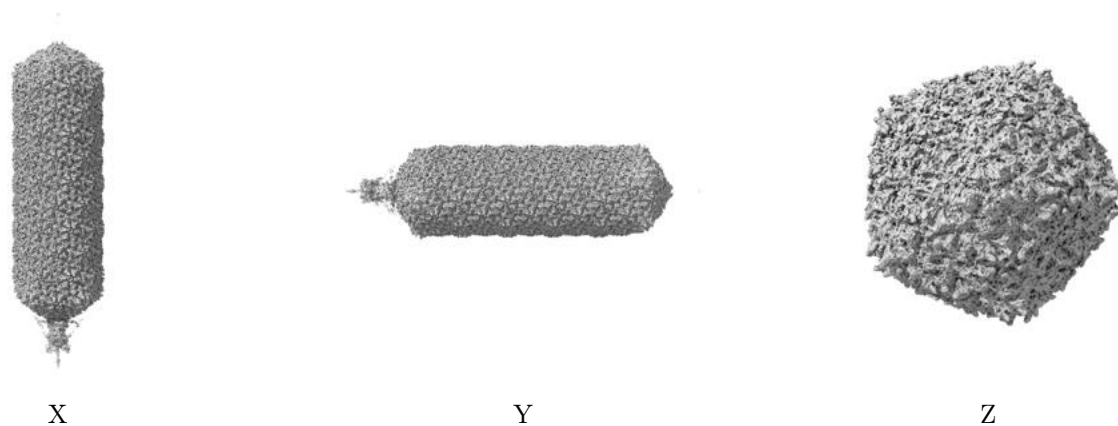
6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.04. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.4.2 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.

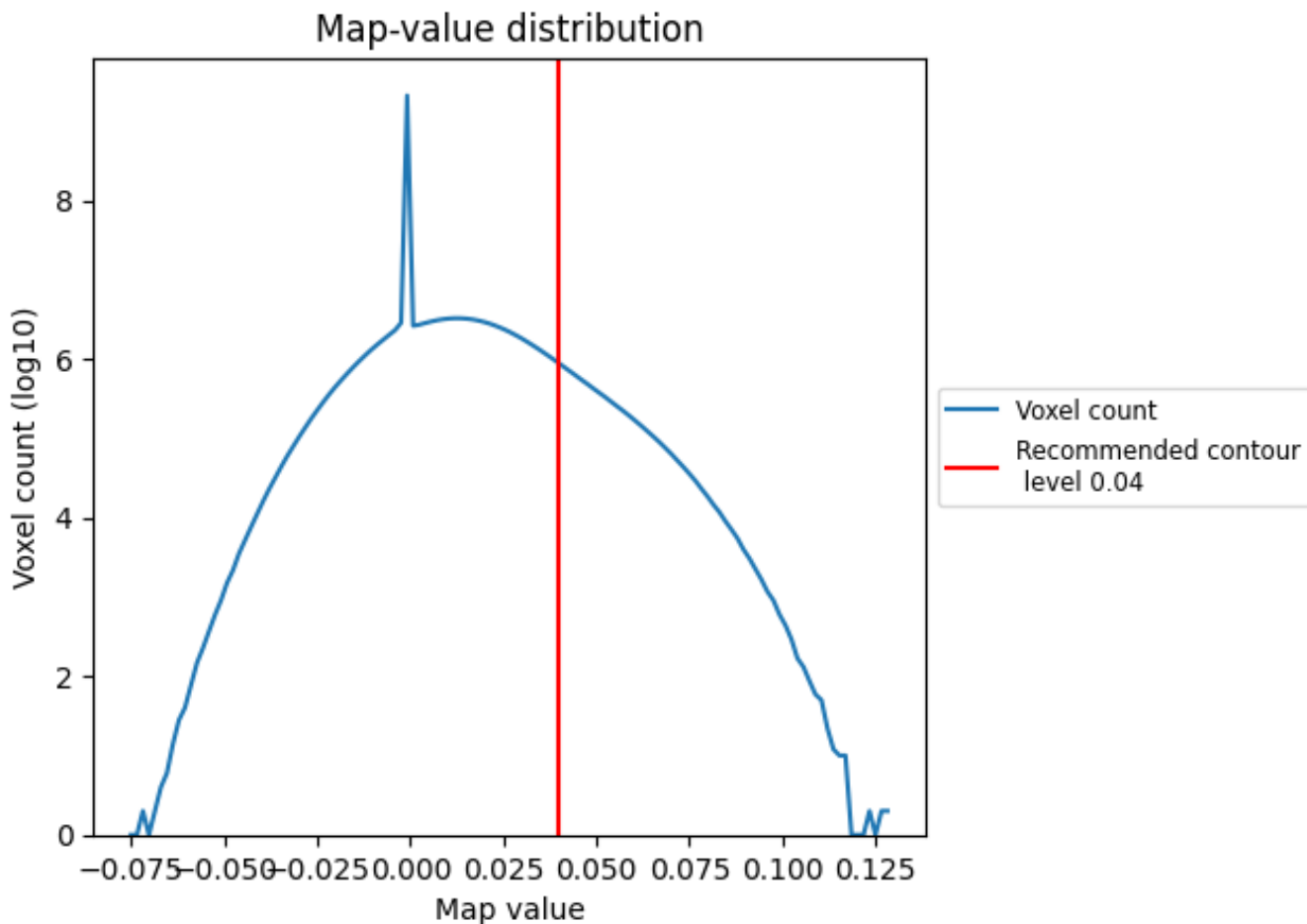
6.5 Mask visualisation [i](#)

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

7 Map analysis [i](#)

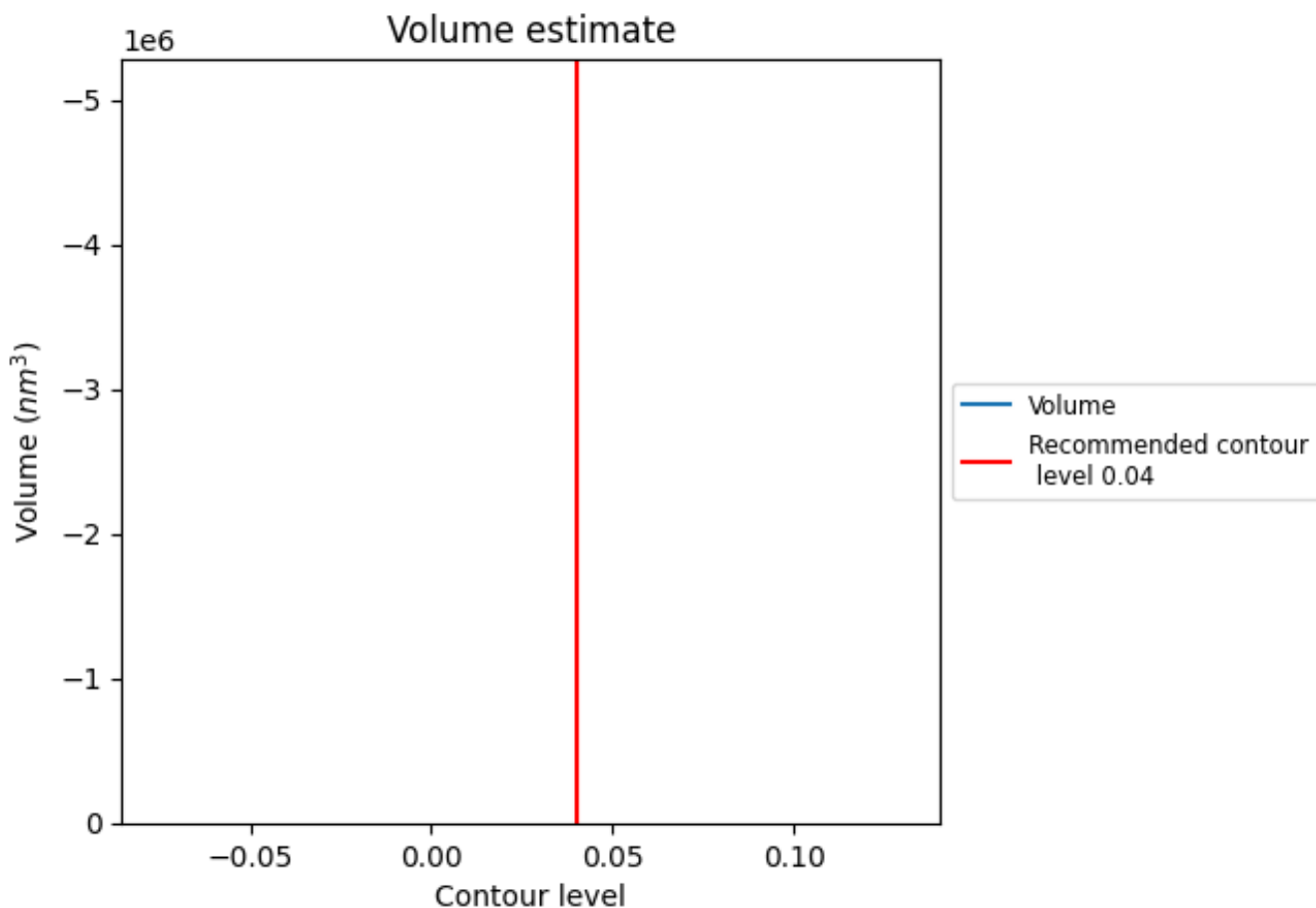
This section contains the results of statistical analysis of the map.

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.

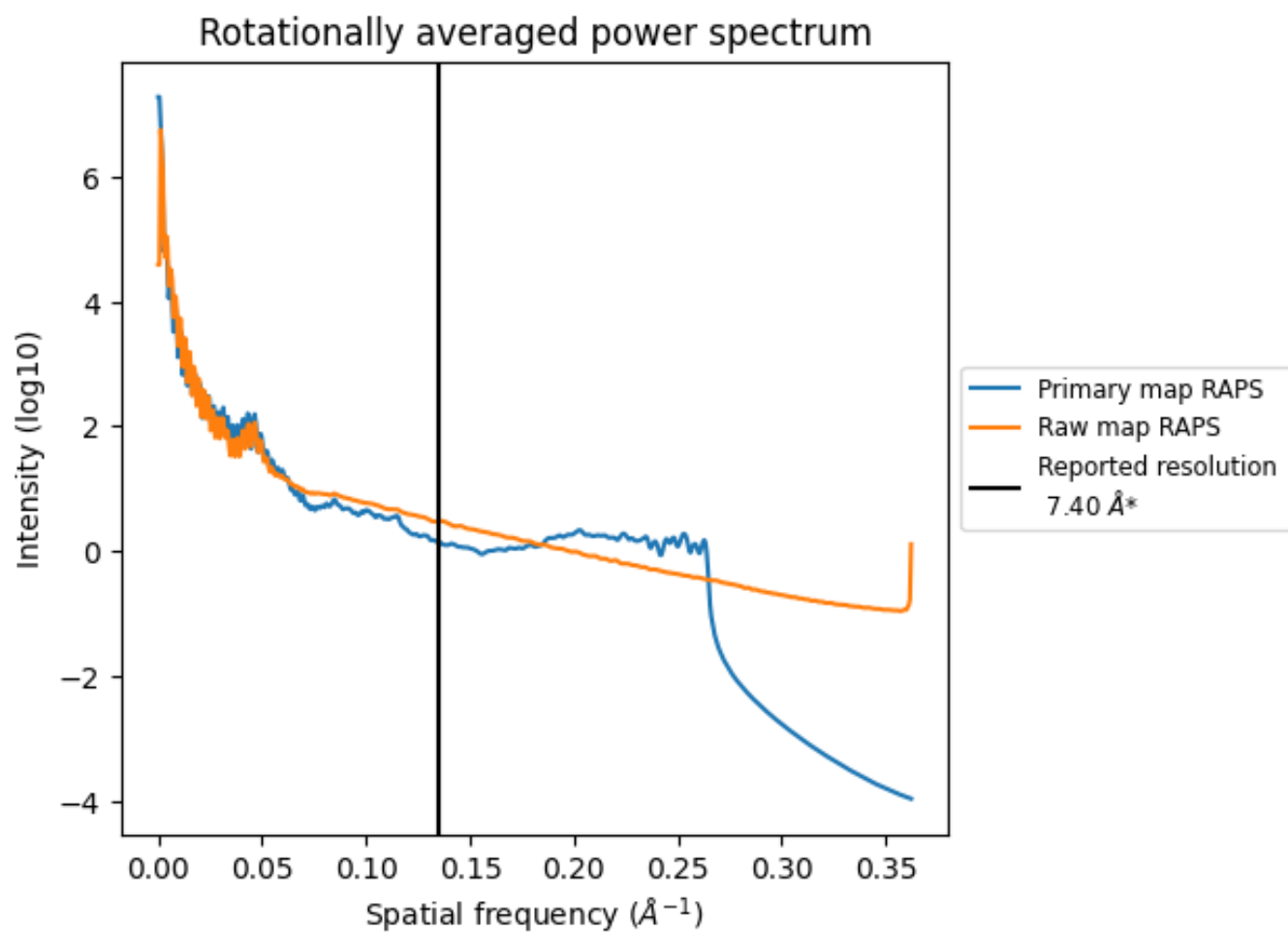
7.2 Volume estimate [i](#)



The volume at the recommended contour level is -11269269 nm^3 ; this corresponds to an approximate mass of -10179824 kDa .

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

7.3 Rotationally averaged power spectrum [i](#)

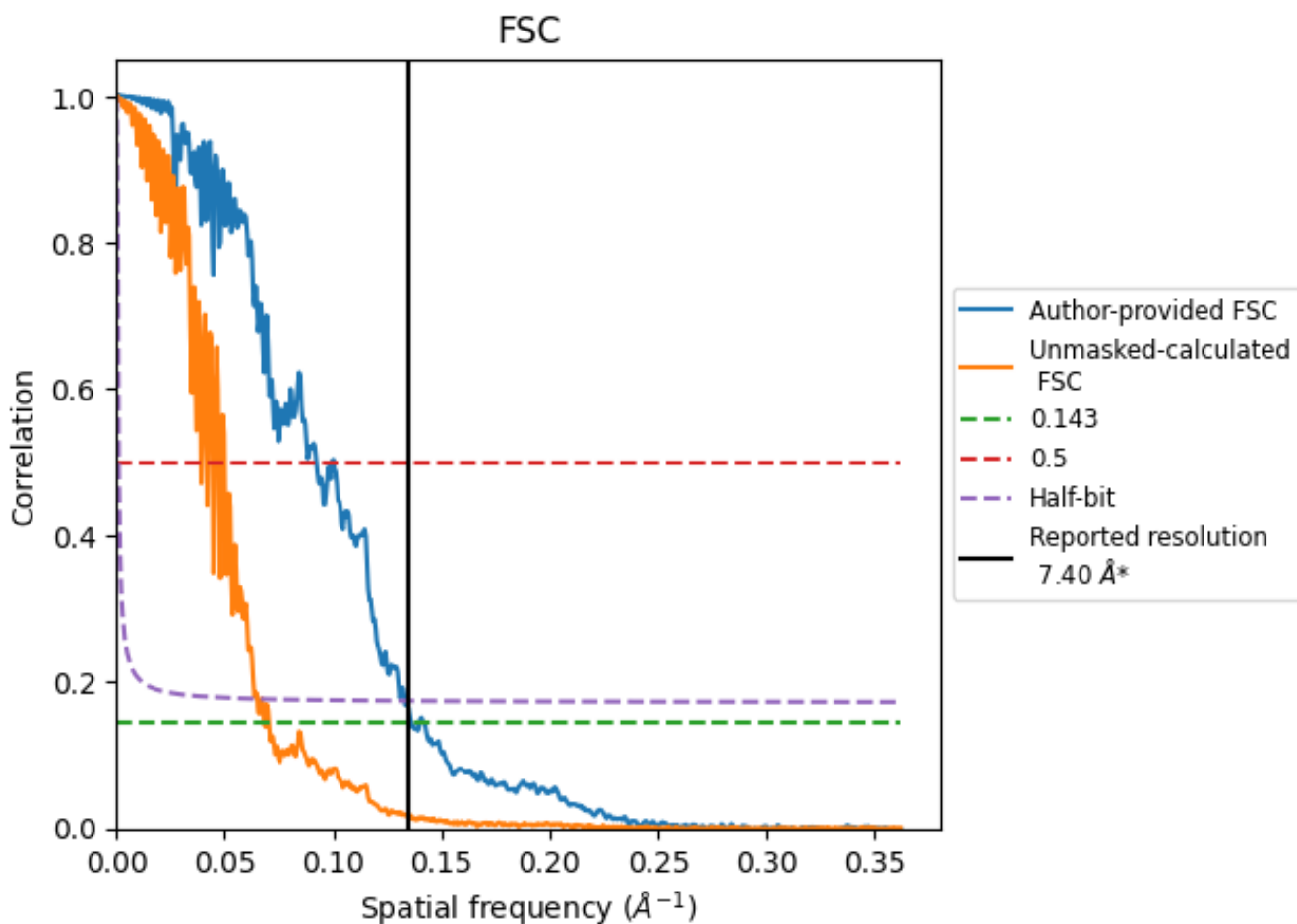


*Reported resolution corresponds to spatial frequency of 0.135 \AA^{-1}

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 0.135\AA^{-1}

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	7.40	-	-
Author-provided FSC curve	7.33	10.83	7.50
Unmasked-calculated*	14.66	25.64	15.38

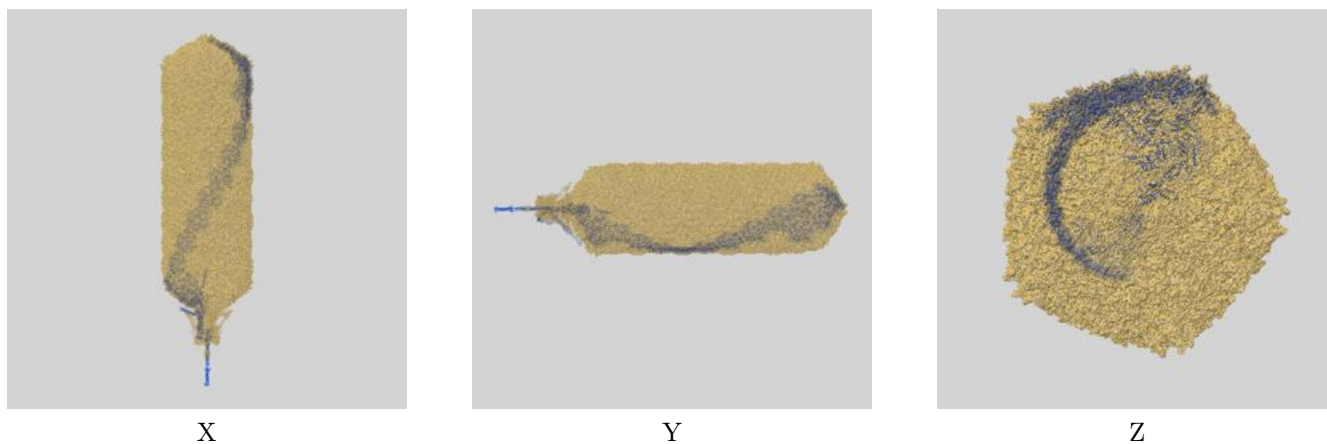
*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 14.66 differs from the reported value 7.4 by more than 10 %

9 Map-model fit [i](#)

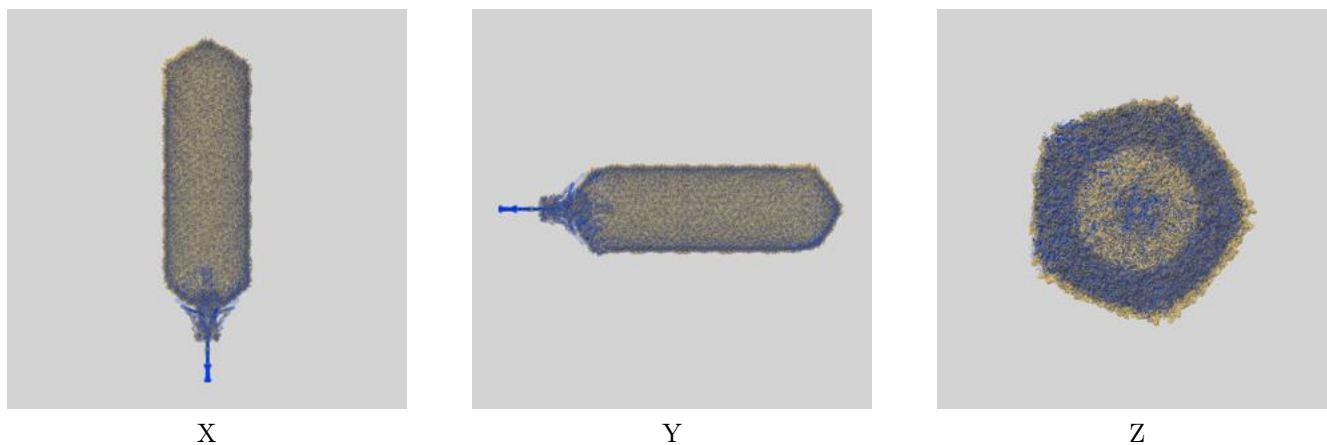
This section contains information regarding the fit between EMDB map EMD-14492 and PDB model 7Z4B. Per-residue inclusion information can be found in section 3 on page 14.

9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)



9.1.2 Map-model assembly overlay [i](#)



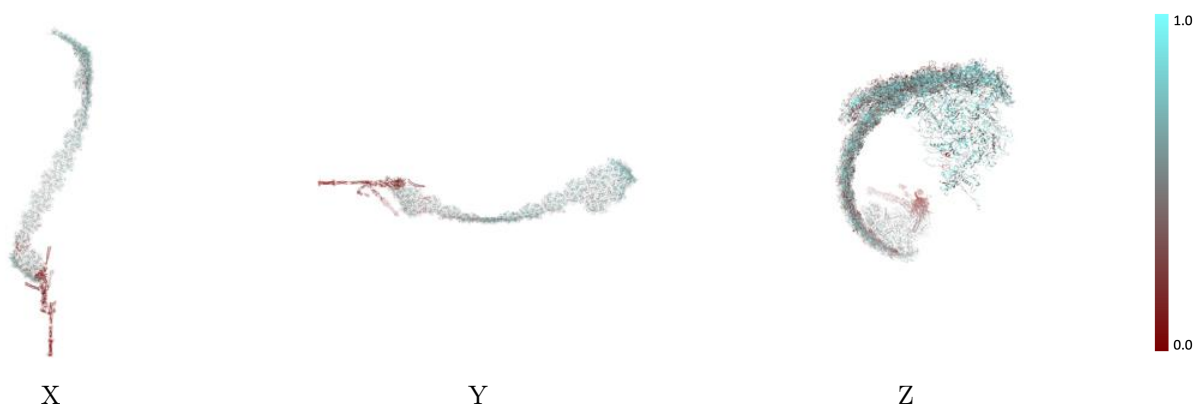
The images above show the 3D surface view of the map at the recommended contour level 0.04 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



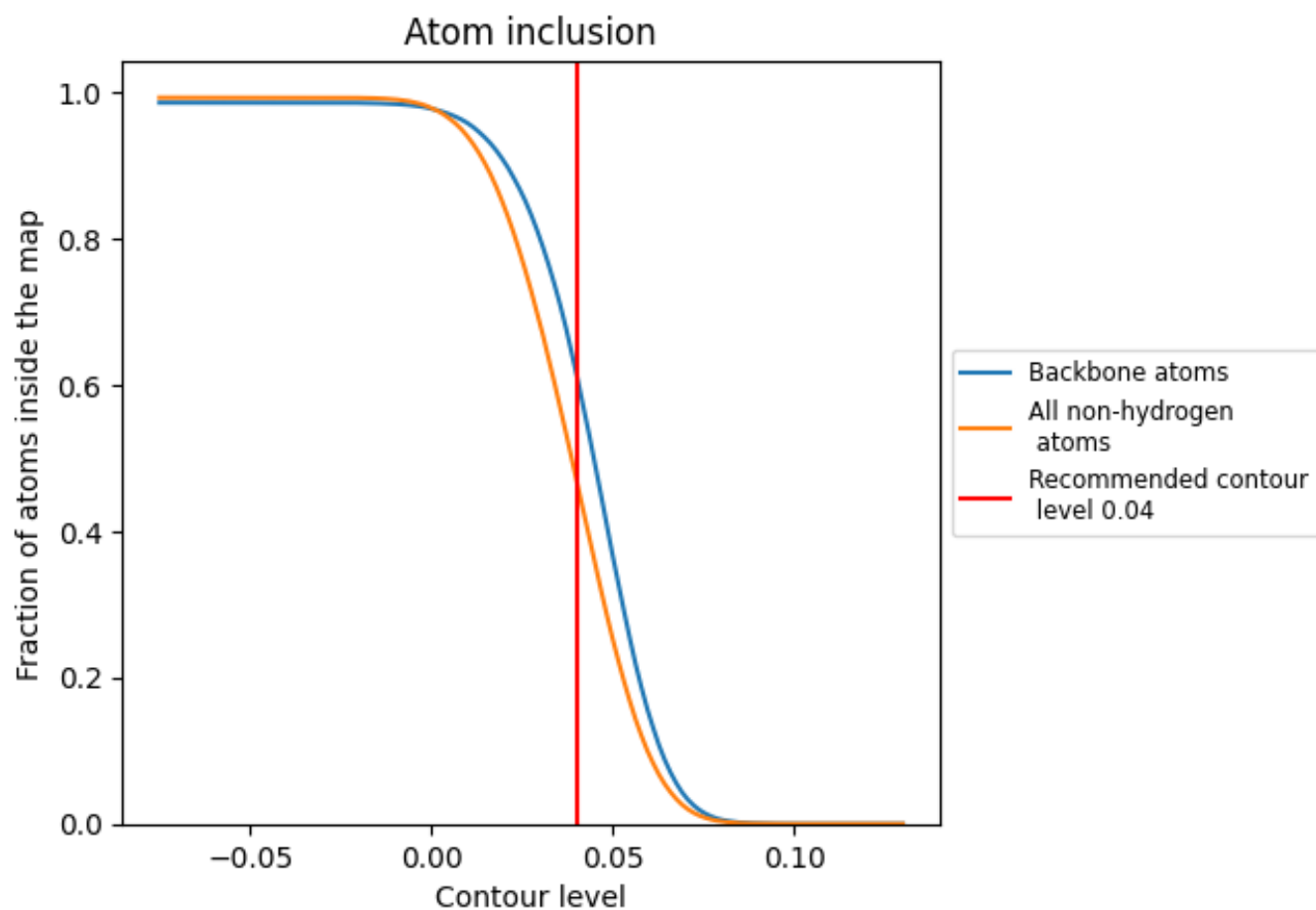
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.04).

9.4 Atom inclusion [i](#)



At the recommended contour level, 61% of all backbone atoms, 47% 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 (0.04) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.4684	0.1940
AA	0.5569	0.2700
AB	0.5493	0.2600
AC	0.5700	0.2630
AD	0.5311	0.2520
AE	0.5262	0.2670
AF	0.5344	0.2620
AG	0.5425	0.2370
AH	0.5500	0.2540
AI	0.5504	0.2470
AJ	0.5466	0.2380
AK	0.5349	0.2540
AL	0.5318	0.2460
AM	0.5665	0.2400
AN	0.5413	0.2570
AO	0.5531	0.2440
AP	0.5030	0.2270
AQ	0.5326	0.2620
AR	0.5428	0.2470
AS	0.5194	0.2230
AT	0.5388	0.2620
AU	0.5228	0.2280
AV	0.5455	0.2460
AW	0.5181	0.2690
AX	0.5363	0.2510
AY	0.4124	0.2240
AZ	0.4587	0.2310
BA	0.4442	0.2390
BB	0.4905	0.2560
BC	0.5190	0.2480
BD	0.5223	0.2500
BE	0.5379	0.2600
BF	0.2707	0.0450
BG	0.5042	0.2510
BH	0.4958	0.2480





































































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Chain	Atom inclusion	Q-score
BI	0.4064	0.0790
BJ	0.4814	0.2490
BK	0.5573	0.2580
BL	0.3865	0.1680
BM	0.4870	0.2550
BN	0.5102	0.2570
BO	0.4719	0.2200
BP	0.4947	0.2580
BQ	0.4643	0.2360
BR	0.4433	0.1820
BS	0.5259	0.2500
BT	0.4998	0.2690
BU	0.3648	0.0680
BV	0.5257	0.2660
BW	0.5470	0.1400
BX	0.5985	0.1870
BY	0.5940	0.1890
BZ	0.6100	0.1870
CA	0.6004	0.1820
CB	0.6025	0.2020
CC	0.6016	0.1780
CD	0.5460	0.1730
CE	0.5793	0.1950
CF	0.5414	0.2090
CG	0.5167	0.1720
CH	0.5773	0.2020
CI	0.5854	0.2030
CJ	0.5679	0.2190
CK	0.4780	0.1710
CL	0.5036	0.1870
CM	0.6056	0.2050
CN	0.5144	0.2080
CO	0.5042	0.1970
CP	0.5174	0.1650
CQ	0.6086	0.2020
CR	0.4865	0.1950
CS	0.4841	0.1760
CT	0.5913	0.1860
CU	0.6059	0.1940
CV	0.5273	0.2090
CW	0.4624	0.1900
CX	0.5976	0.2030

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Chain	Atom inclusion	Q-score
CY	 0.5474	 0.1940
CZ	 0.5042	 0.1900
DA	 0.4871	 0.1930
DB	 0.4227	 0.1710
DC	 0.4083	 0.1790
DD	 0.4624	 0.1710
DE	 0.4766	 0.1880
DF	 0.4890	 0.1940
DG	 0.4747	 0.1930
DH	 0.5143	 0.1840
DI	 0.4780	 0.1910
DJ	 0.5325	 0.1800
DK	 0.4331	 0.1770
DL	 0.5447	 0.1930
DM	 0.4910	 0.1860
DN	 0.5143	 0.1900
DO	 0.5030	 0.2040
DP	 0.5143	 0.1780
DQ	 0.4332	 0.1780
DR	 0.0333	 0.0210
DS	 0.0375	 0.0130
DT	 0.0572	 0.0350
DU	 0.1420	 0.0390
DV	 0.0952	 0.0290
DW	 0.0666	 0.0320
DX	 0.1085	 0.0360
DY	 0.0372	 0.0310
DZ	 0.0448	 0.0160
EA	 0.0543	 0.0050
EB	 0.0357	 0.0050
EC	 0.0225	 -0.0070
ED	 0.0826	 0.0630
EE	 0.0896	 0.0770