



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 09:57 AM UTC

PDB ID : 7SQD / pdb_00007sqd
EMDB ID : EMD-25382
Title : Cryo-EM structure of the Achromobacter flagellar filament
Authors : Kreutzberger, M.A.; Wang, F.; Egelman, E.H.
Deposited on : 2021-11-05
Resolution : 3.70 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

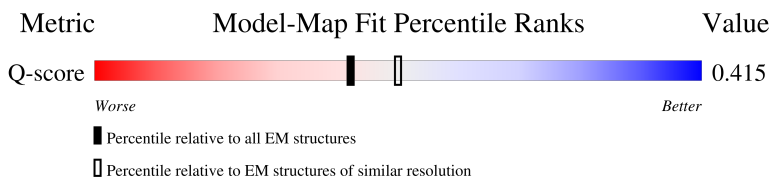
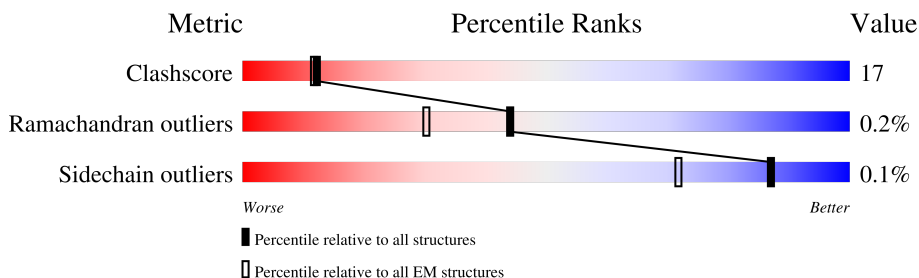
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.70 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	11569 (3.20 - 4.20)

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

Mol	Chain	Length	Quality of chain
1	A	559	
1	B	559	
1	C	559	
1	D	559	

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Mol	Chain	Length	Quality of chain	
1	E	559	8%	65% 35%
1	F	559	7%	63% 37%
1	G	559	7%	62% 38%
1	H	559	8%	62% 37%
1	I	559	7%	62% 38%
1	J	559	8%	62% 38%
1	K	559	8%	61% 38%
1	L	559	7%	63% 36%
1	M	559	8%	63% 36%
1	N	559	7%	65% 35%
1	O	559	7%	66% 33%
1	P	559	8%	69% 30%
1	Q	559	8%	68% 32%
1	R	559	8%	66% 33%
1	S	559	8%	67% 32%
1	T	559	8%	66% 33%
1	U	559	7%	65% 34%
1	V	559	8%	64% 35%
1	W	559	8%	64% 35%
1	X	559	8%	67% 33%
1	Y	559	8%	68% 32%
1	Z	559	8%	68% 32%
1	a	559	9%	67% 33%
1	b	559	9%	67% 33%
1	c	559	8%	65% 34%

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Mol	Chain	Length	Quality of chain	
1	d	559	8%	63% 37%
1	e	559	9%	66% 34%
1	f	559	9%	66% 34%
1	g	559	9%	64% 35%
1	h	559	9%	65% 34%
1	i	559	9%	69% 30%
1	j	559	9%	64% 35%
1	k	559	8%	71% 29%
1	l	559	7%	70% 30%
1	m	559	7%	69% 30%
1	n	559	7%	67% 33%
1	o	559	7%	68% 32%
1	p	559	7%	69% 31%
1	q	559	7%	67% 32%
1	r	559	8%	67% 32%
1	s	559	7%	67% 32%
1	t	559	6%	70% 29%
1	u	559	7%	69% 30%
1	v	559	8%	69% 30%

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 192480 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 Flagellin.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	B	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	C	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	D	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	E	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	F	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	G	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	H	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	I	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	J	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	K	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	L	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	M	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	N	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	O	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	P	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	Q	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	S	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	T	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	U	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	V	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	W	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	X	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	Y	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	Z	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	a	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	b	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	c	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	d	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	e	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	f	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	g	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	h	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	i	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	j	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	k	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	l	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		

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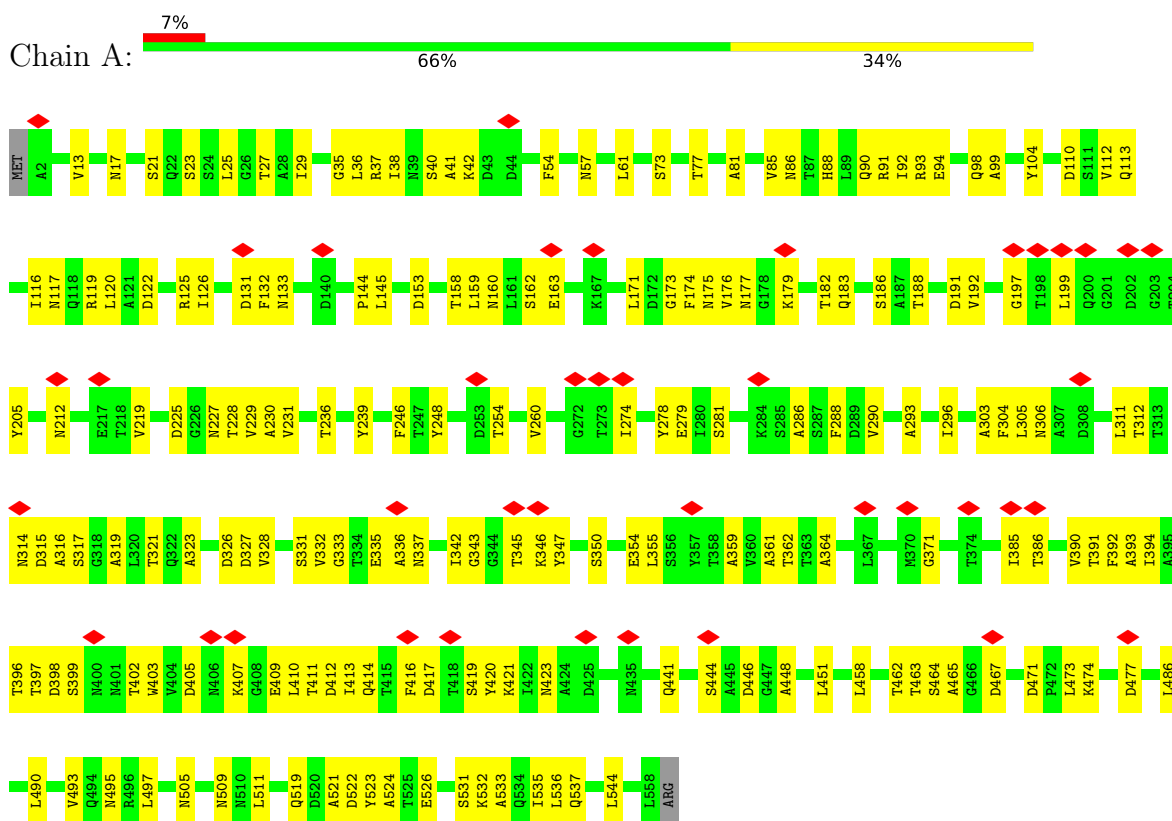
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	n	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	o	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	p	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	q	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	r	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	s	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	t	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	u	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		
1	v	557	Total	C	N	O	S	0	0
			4010	2436	691	880	3		

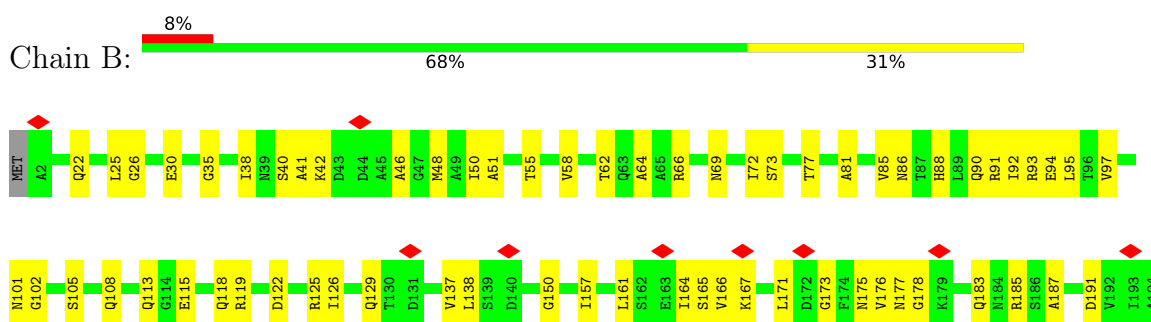
3 Residue-property plots

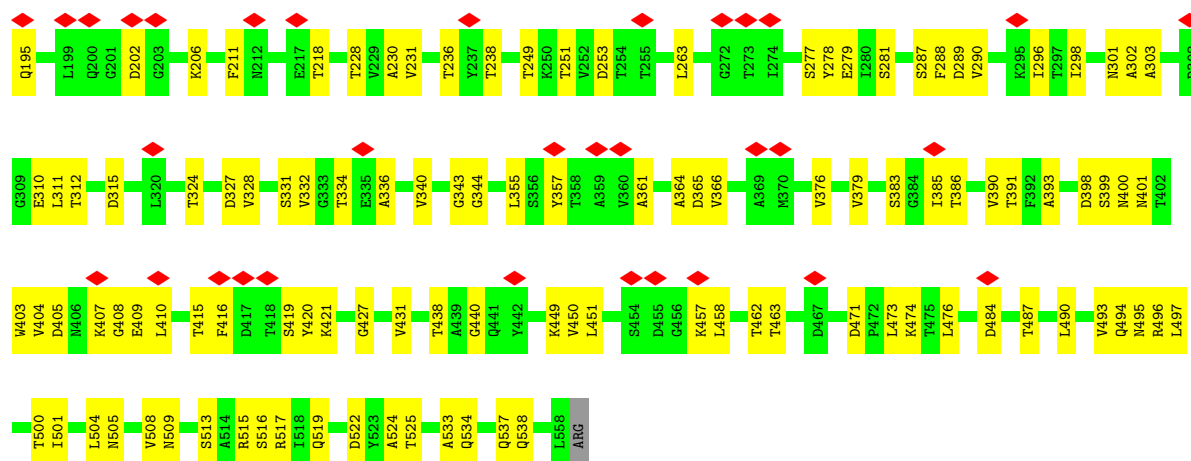
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: Flagellin

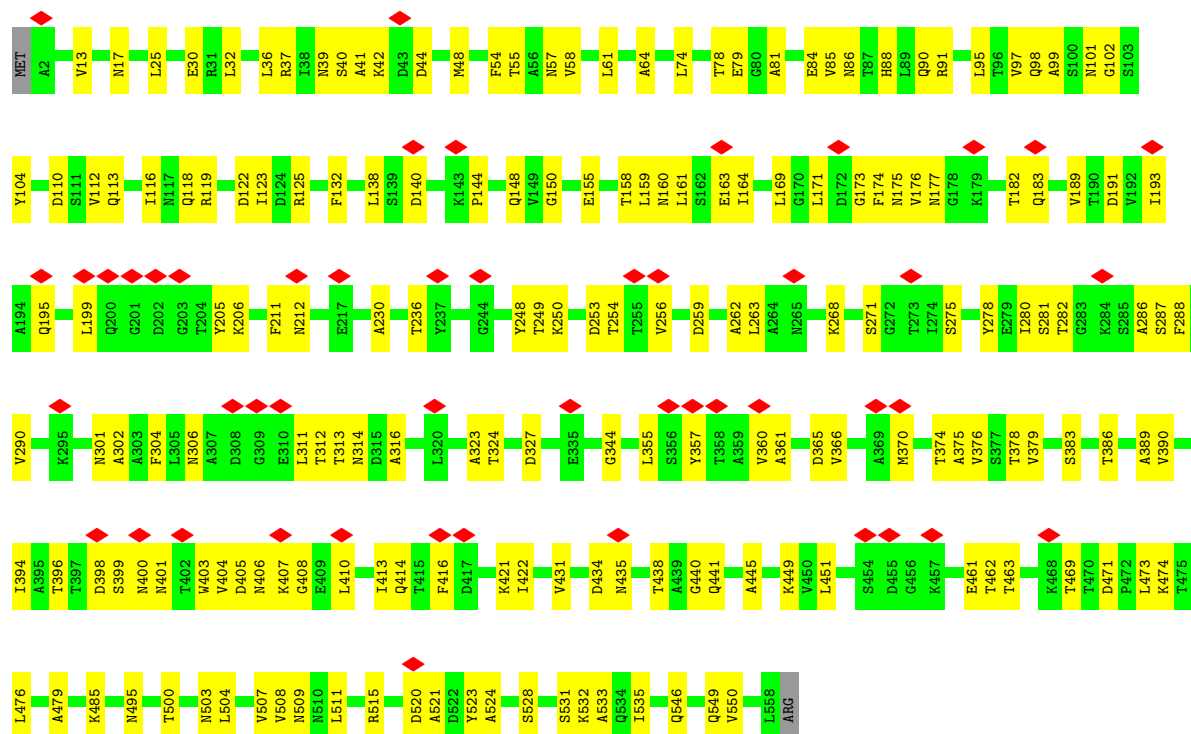


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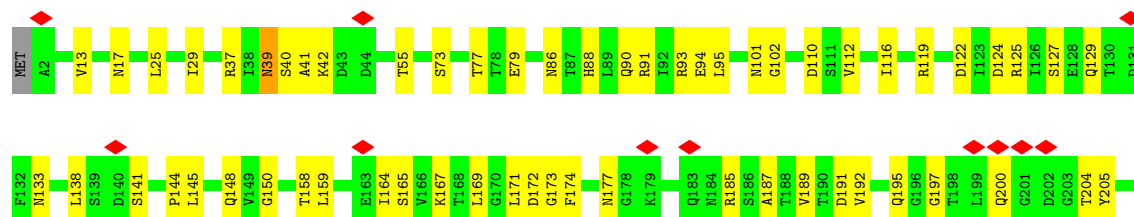


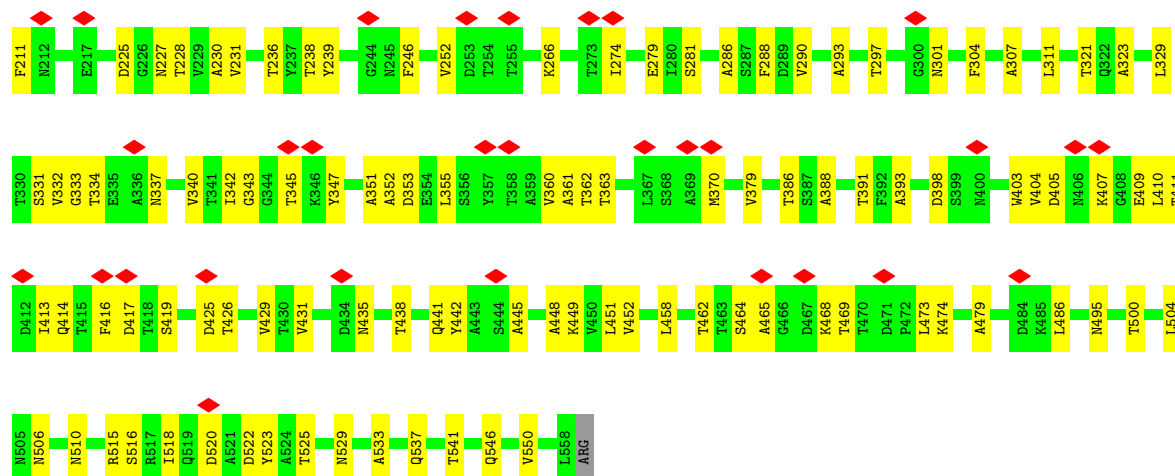


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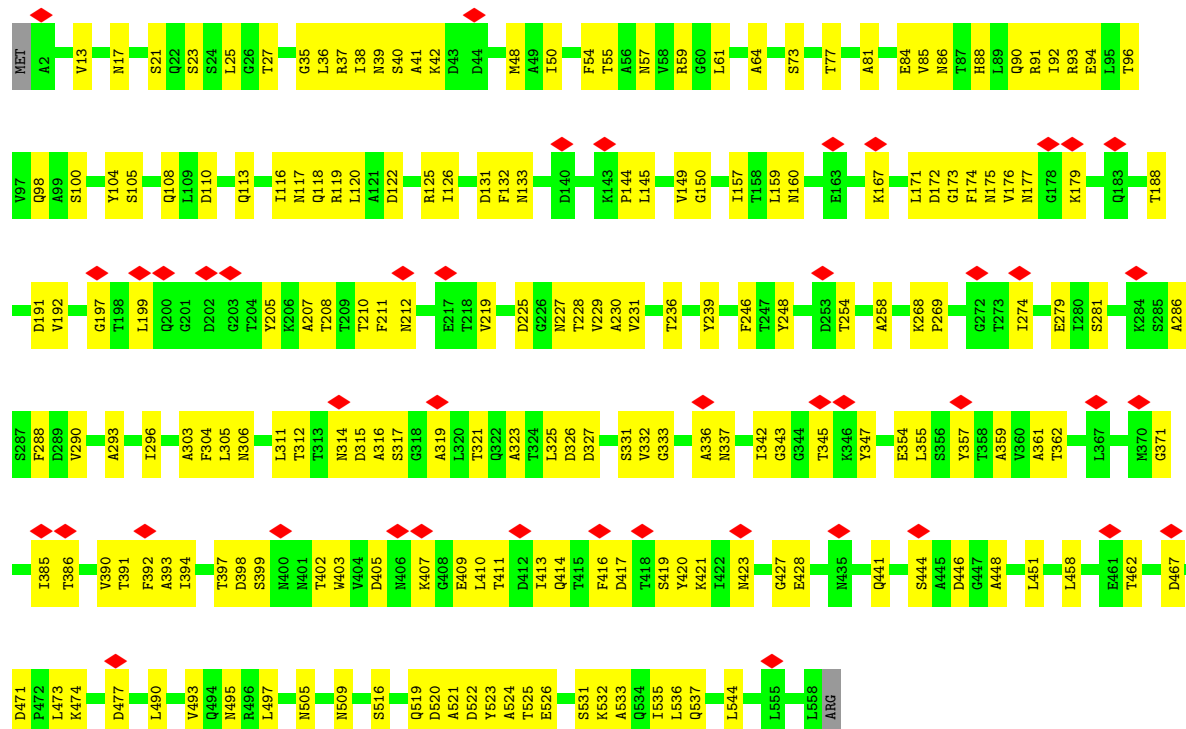


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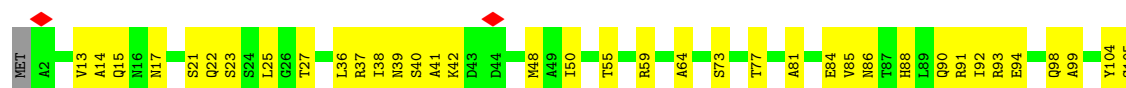


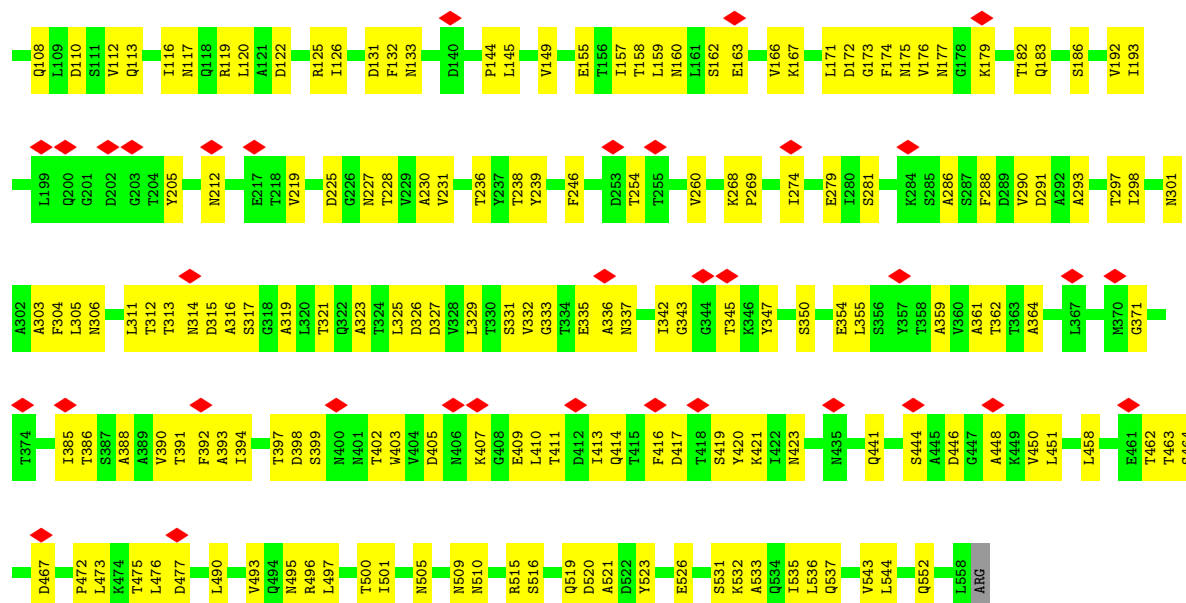


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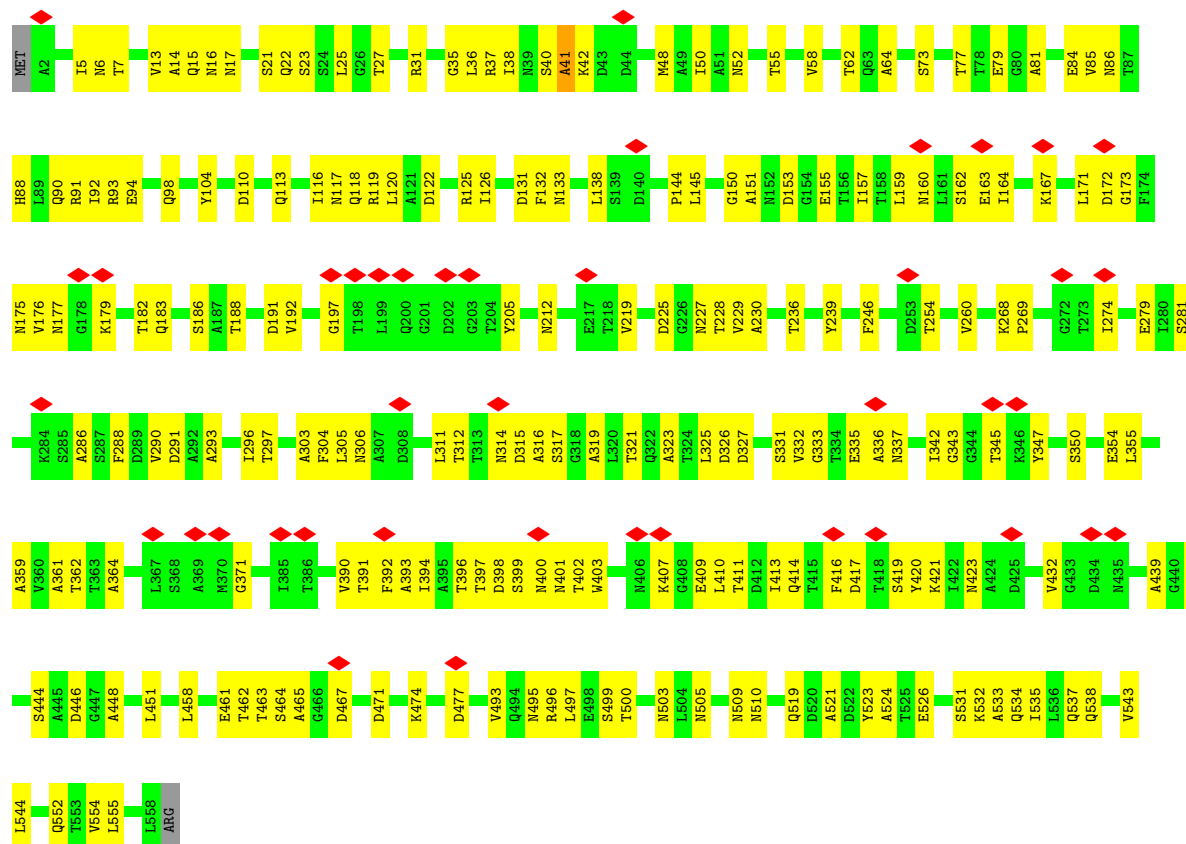


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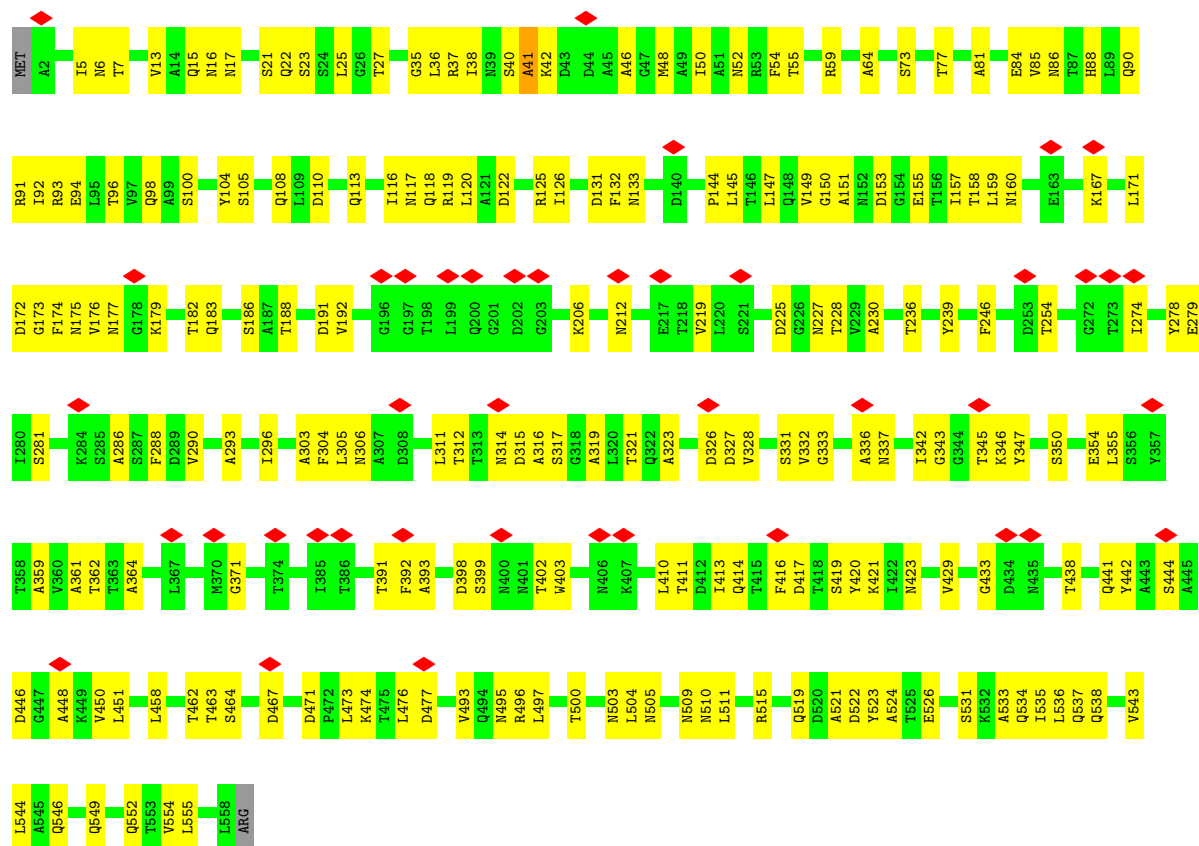


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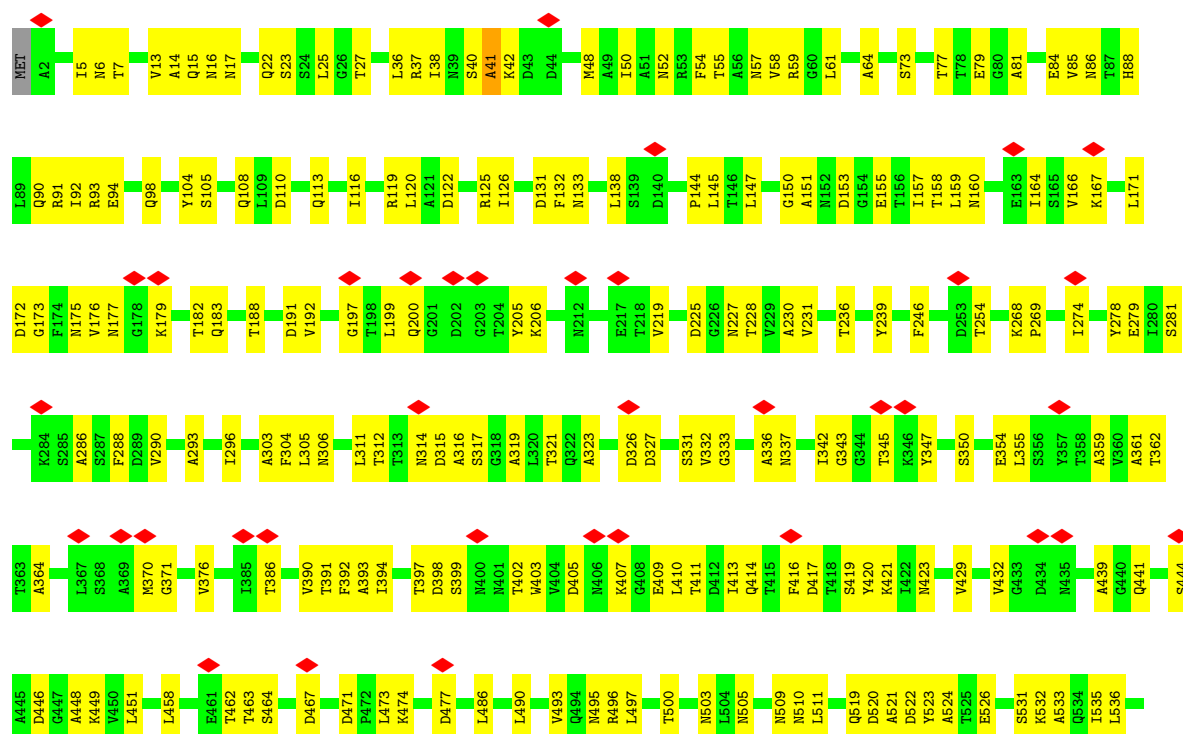


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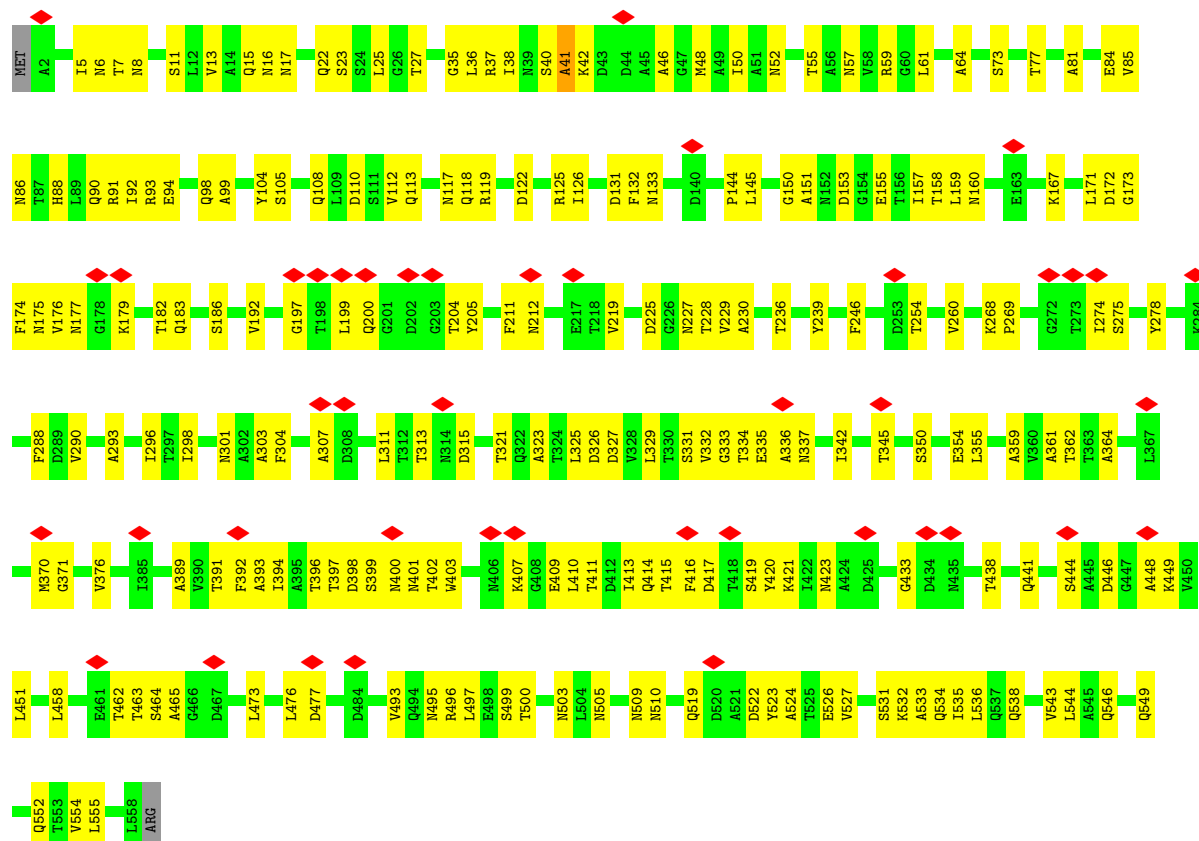


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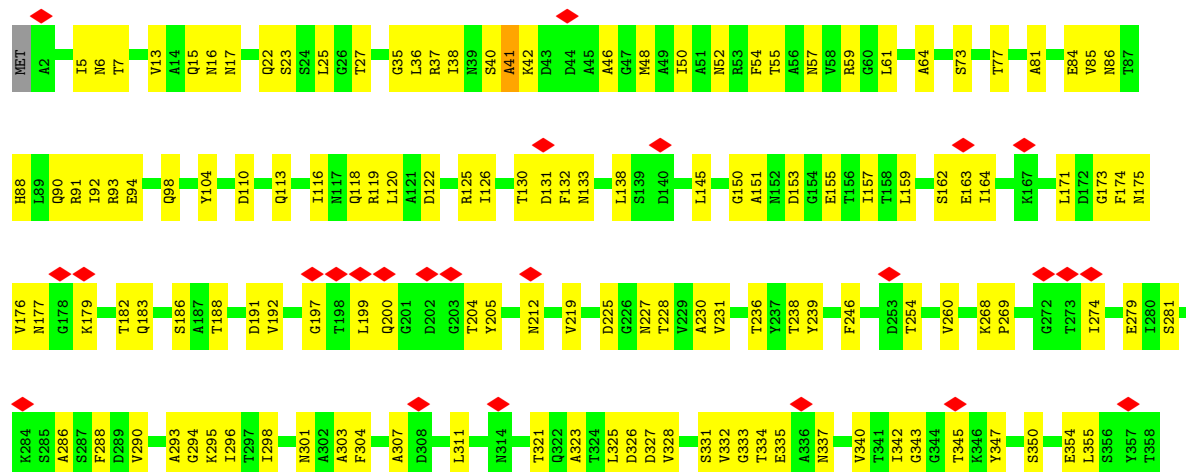


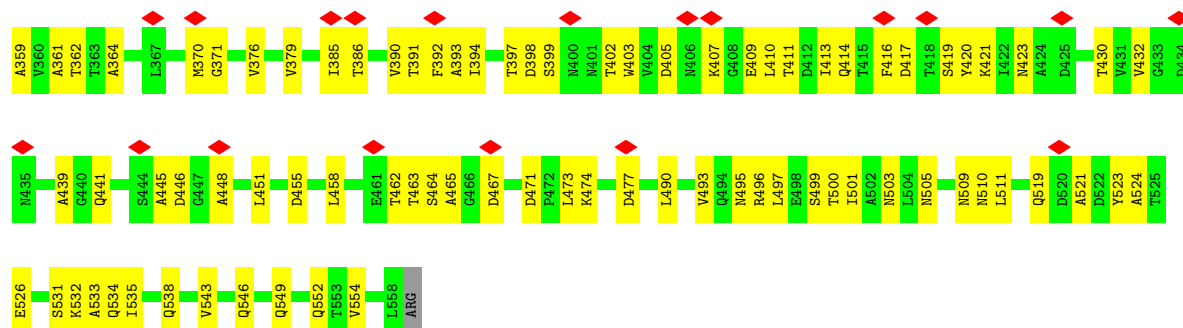


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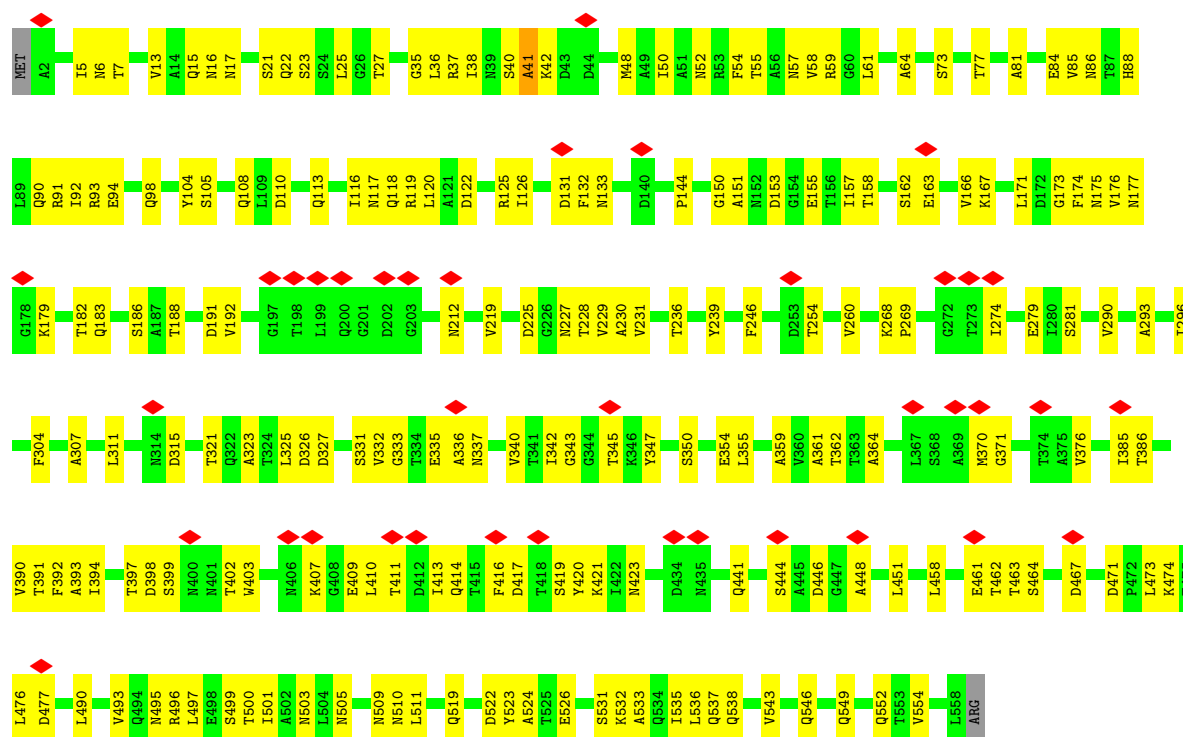


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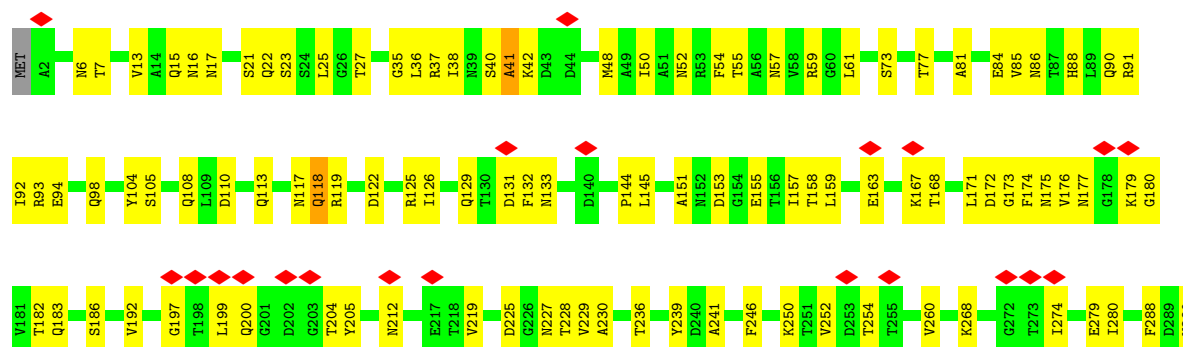


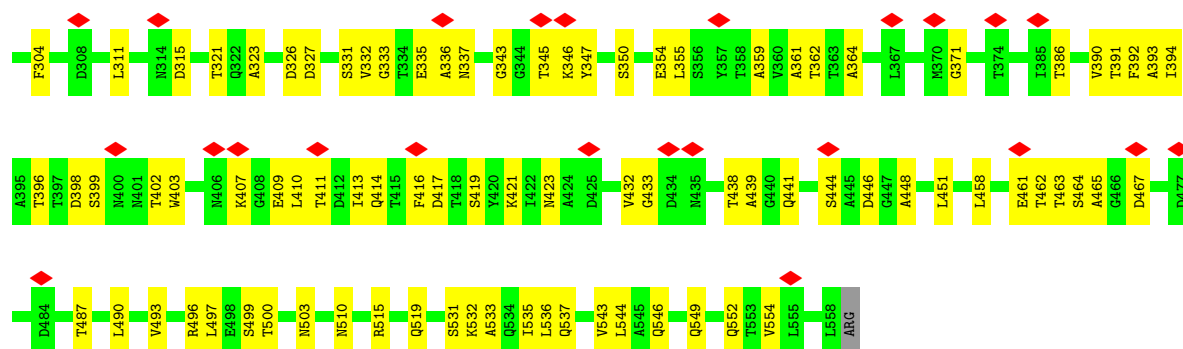


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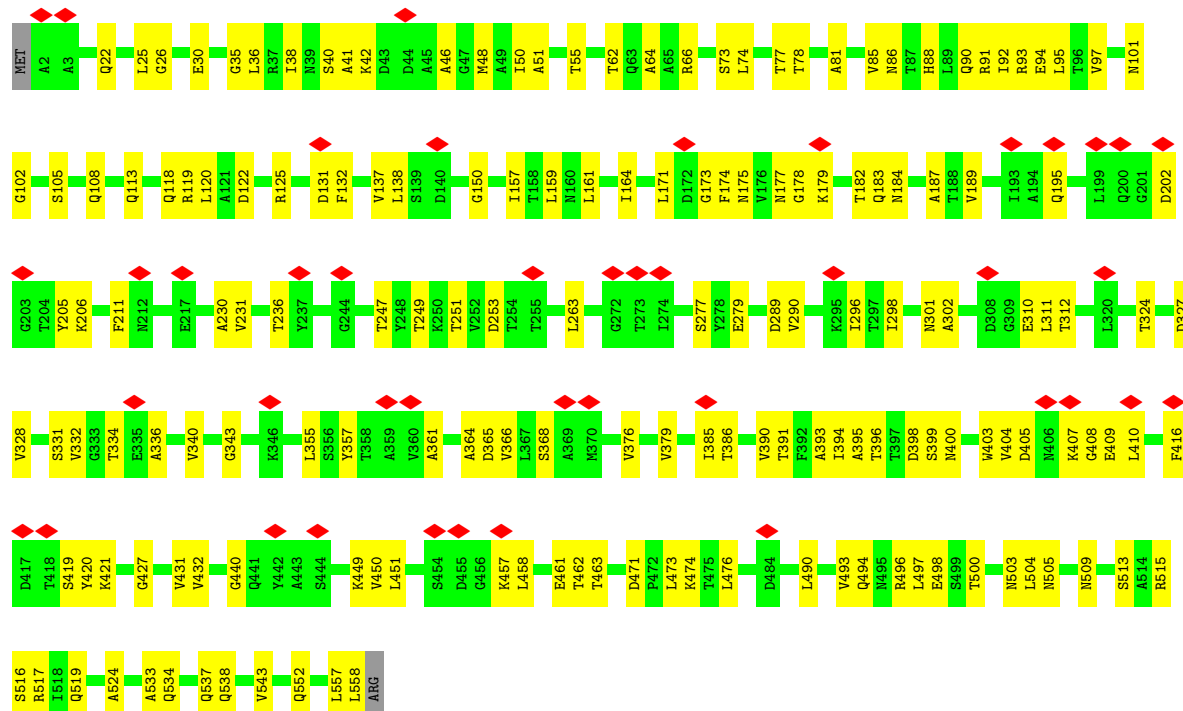


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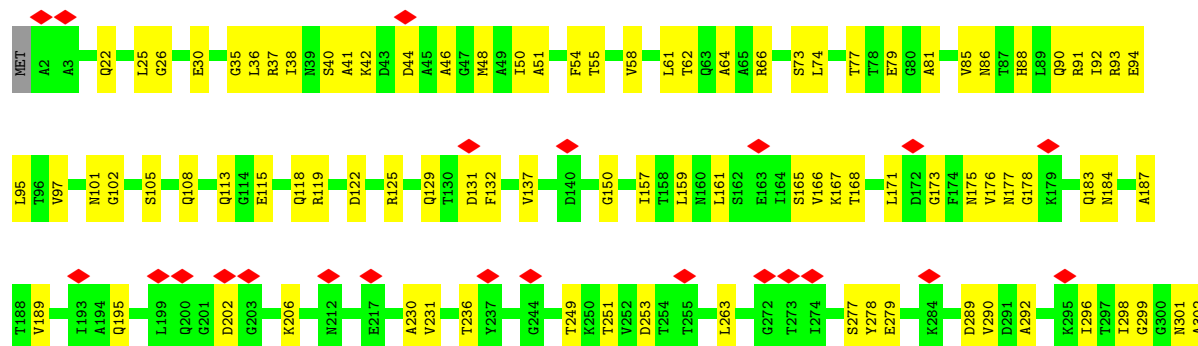


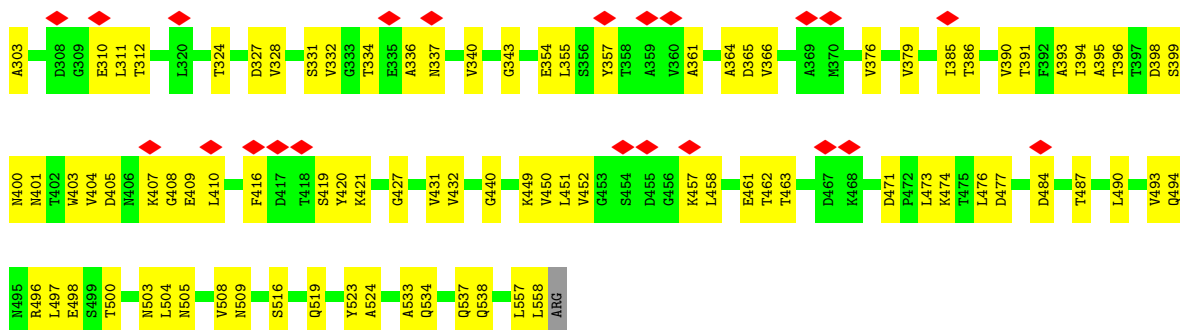


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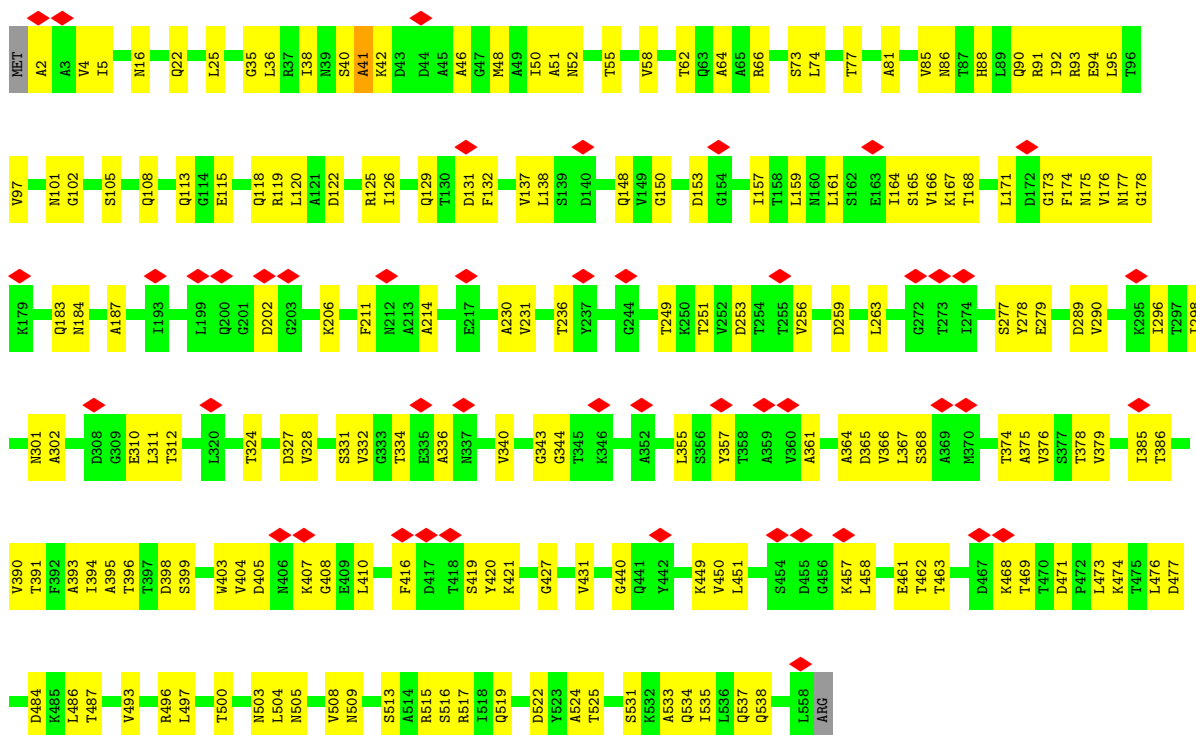


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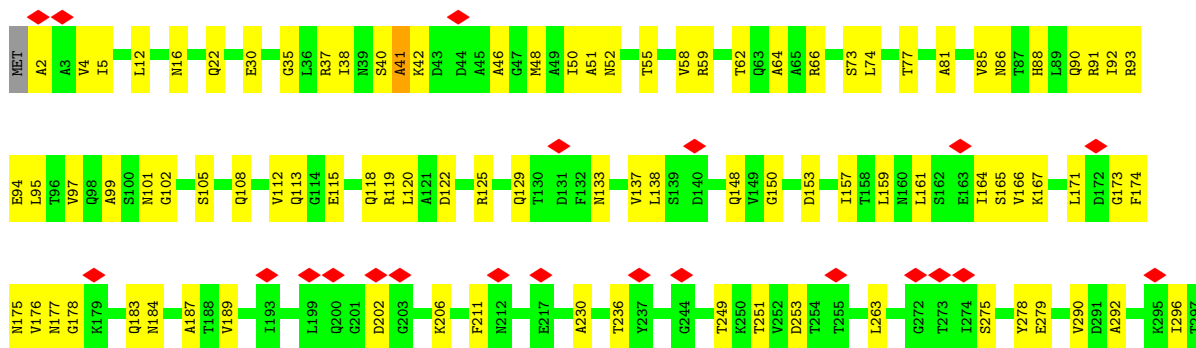


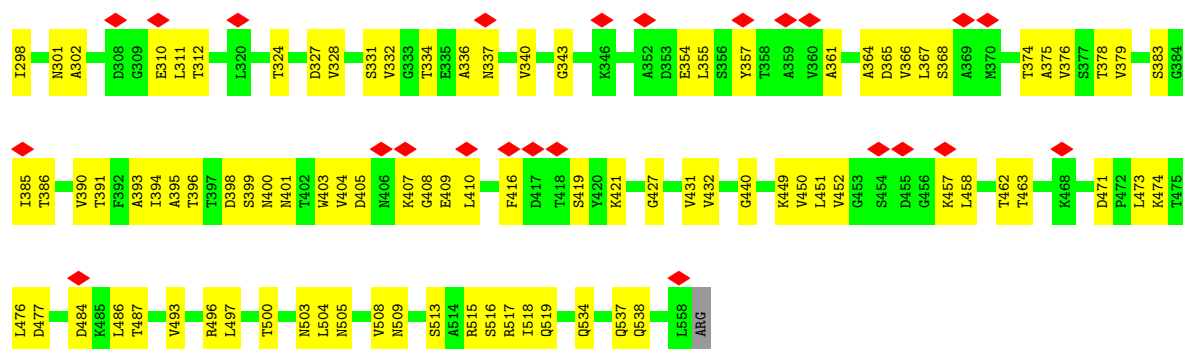


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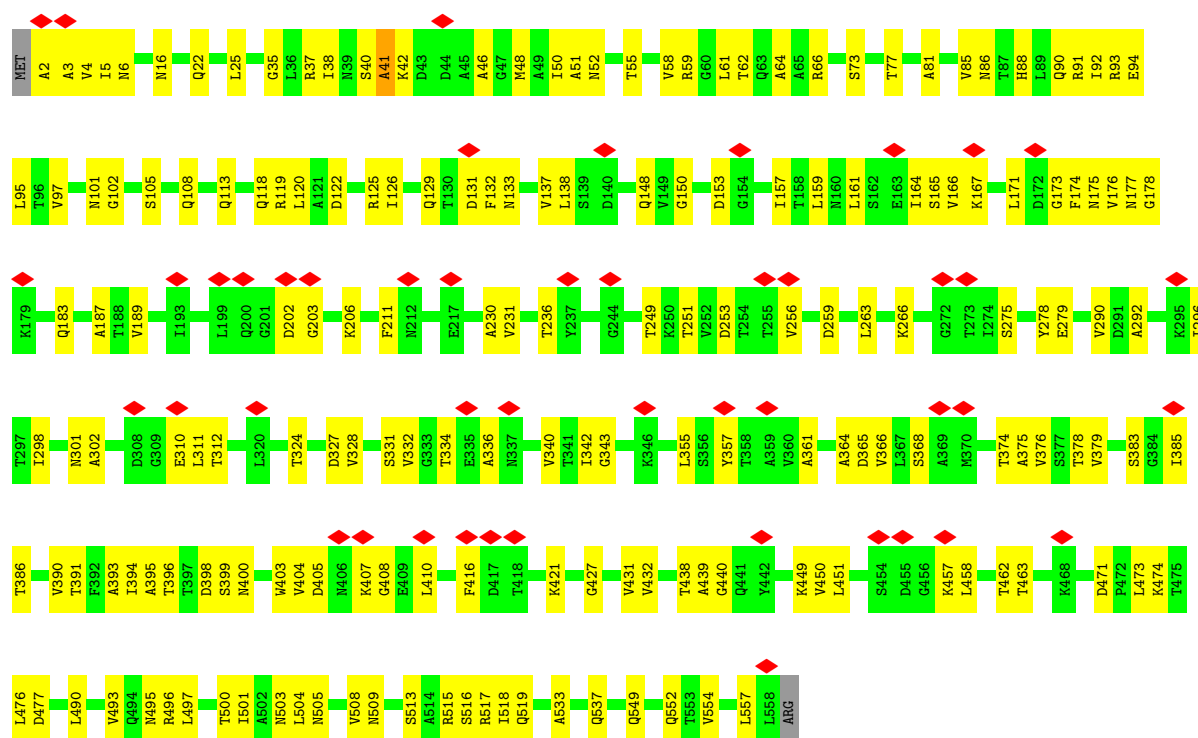


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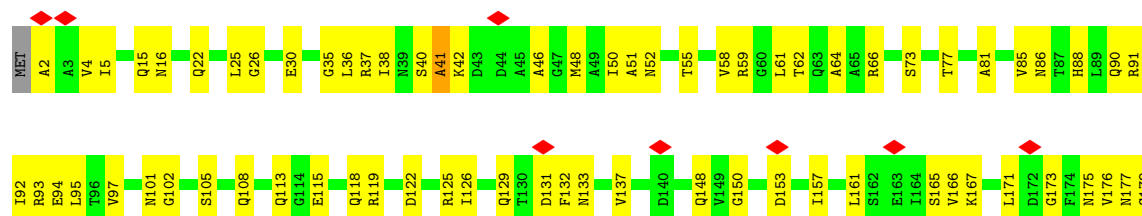


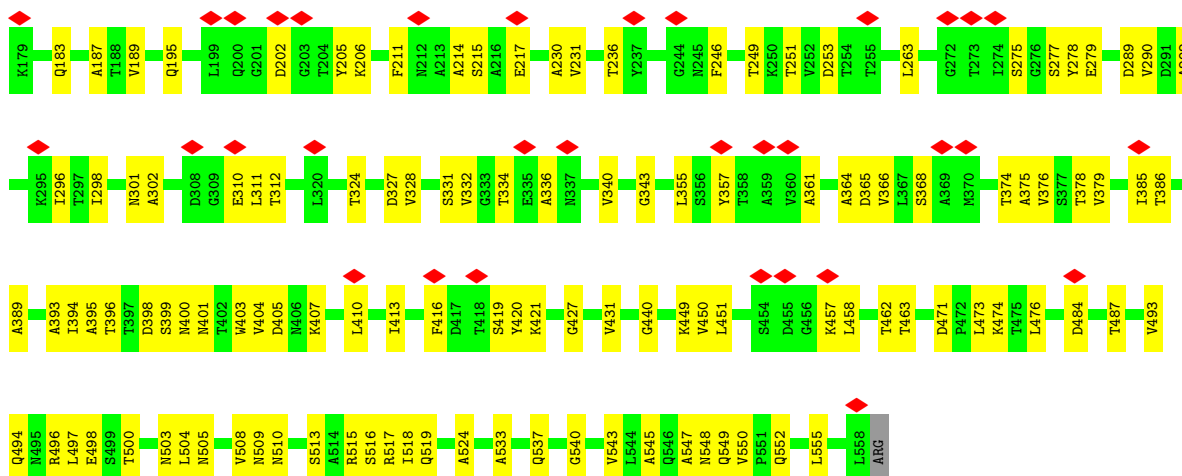


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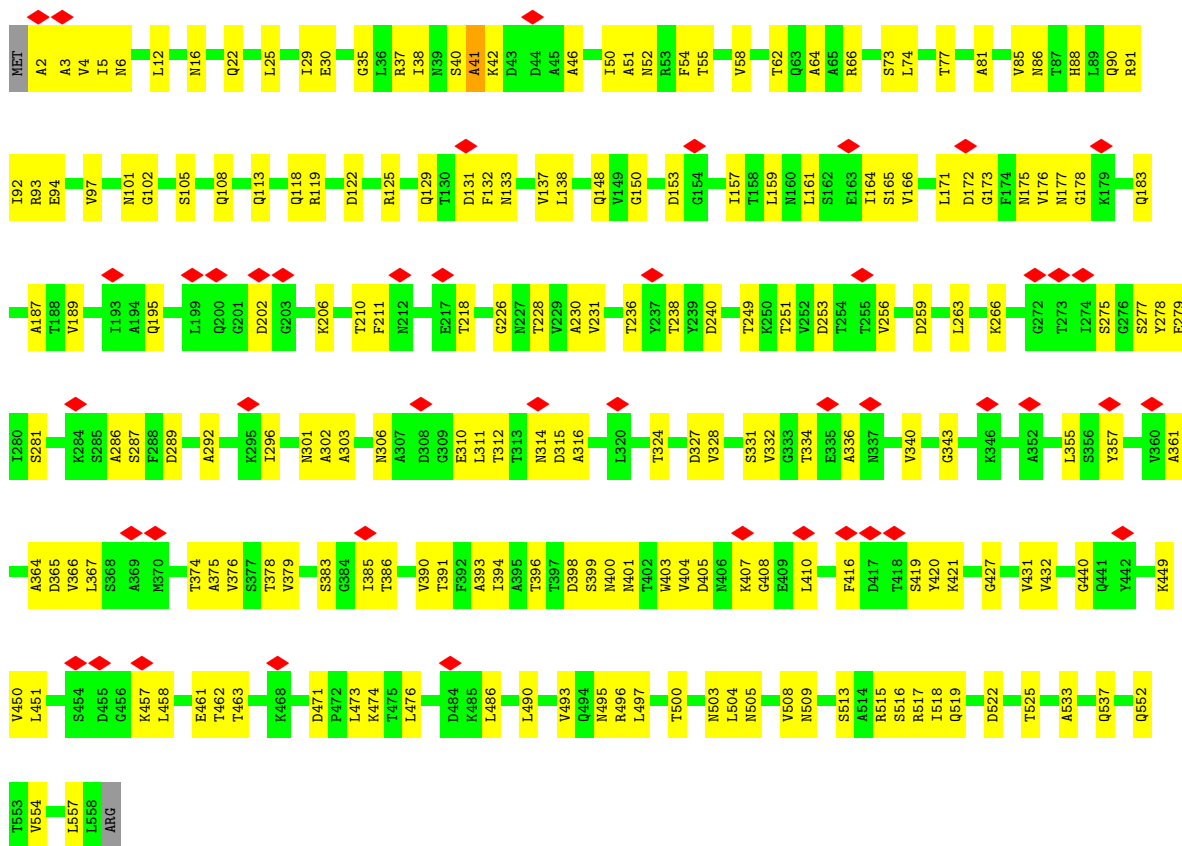


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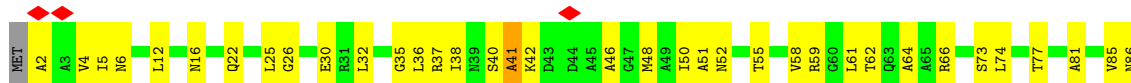


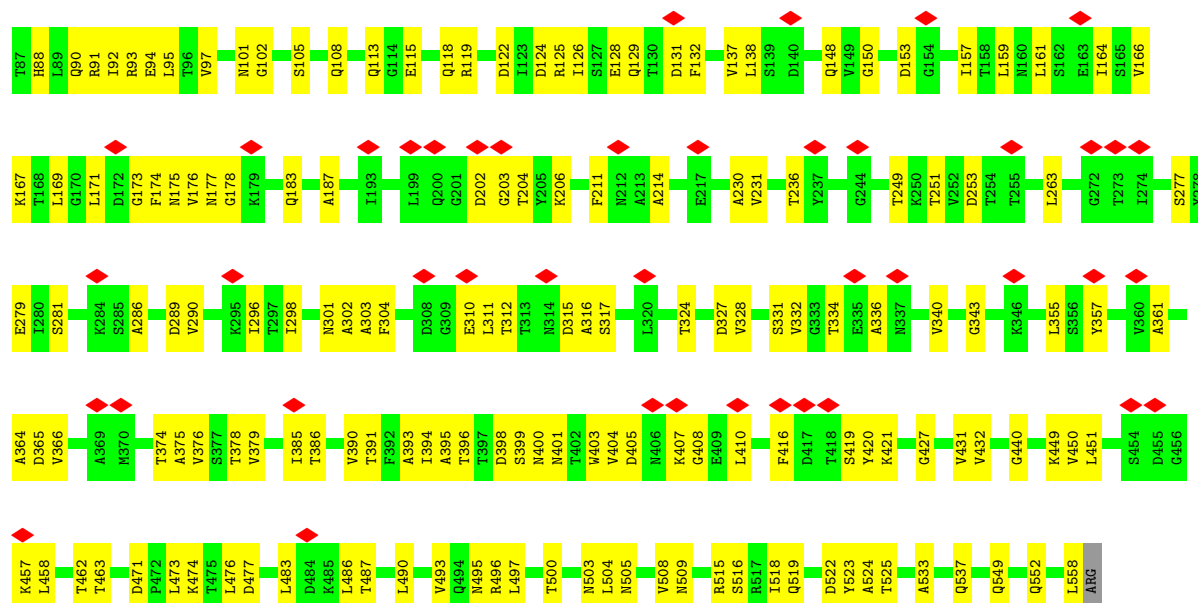


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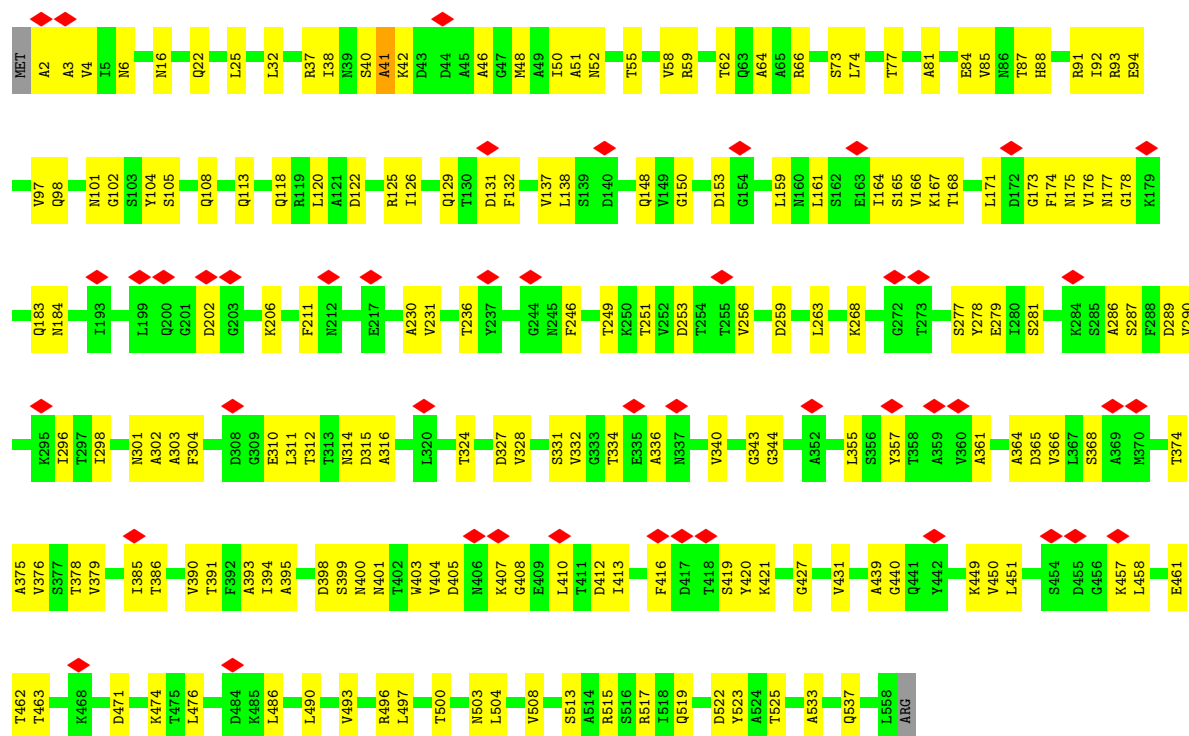


• Molecule 1: Flagellin



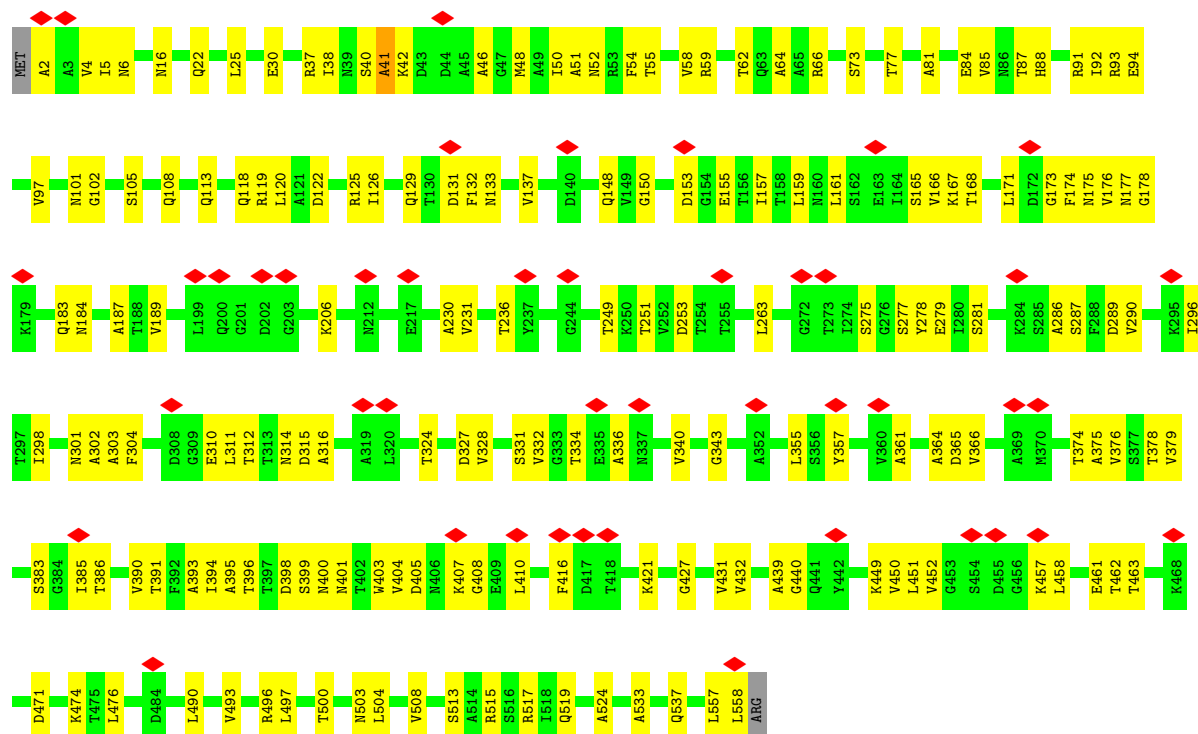


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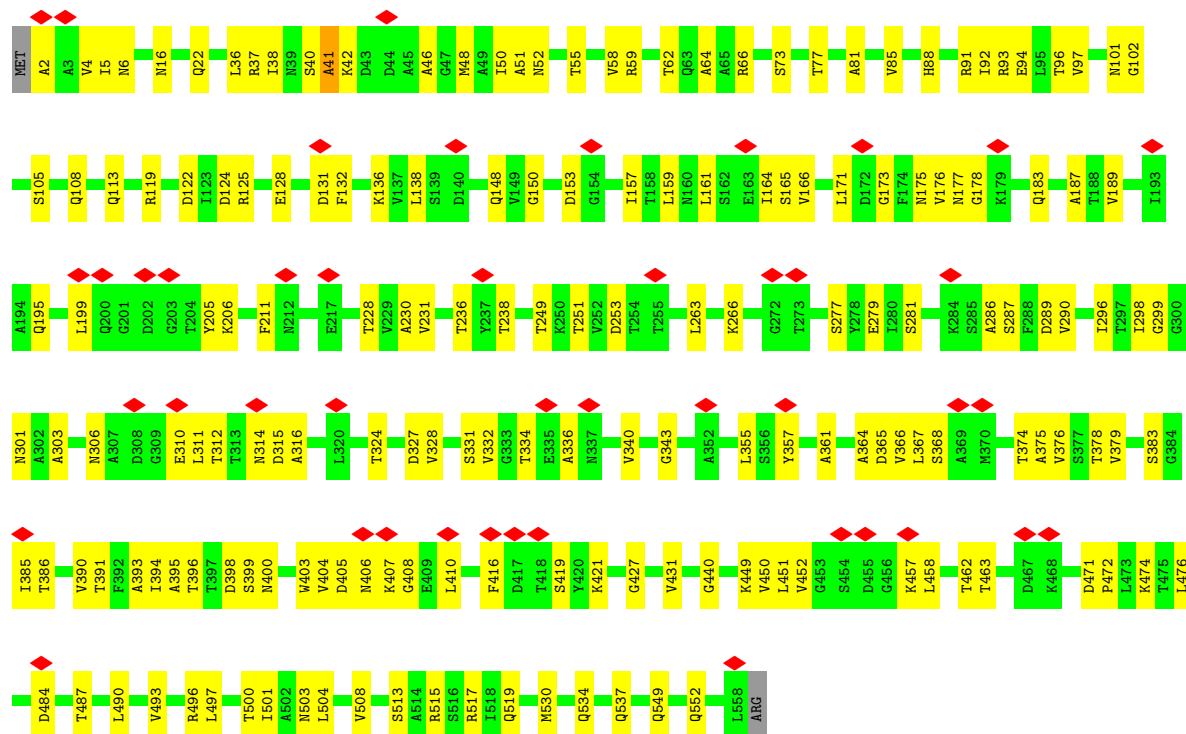


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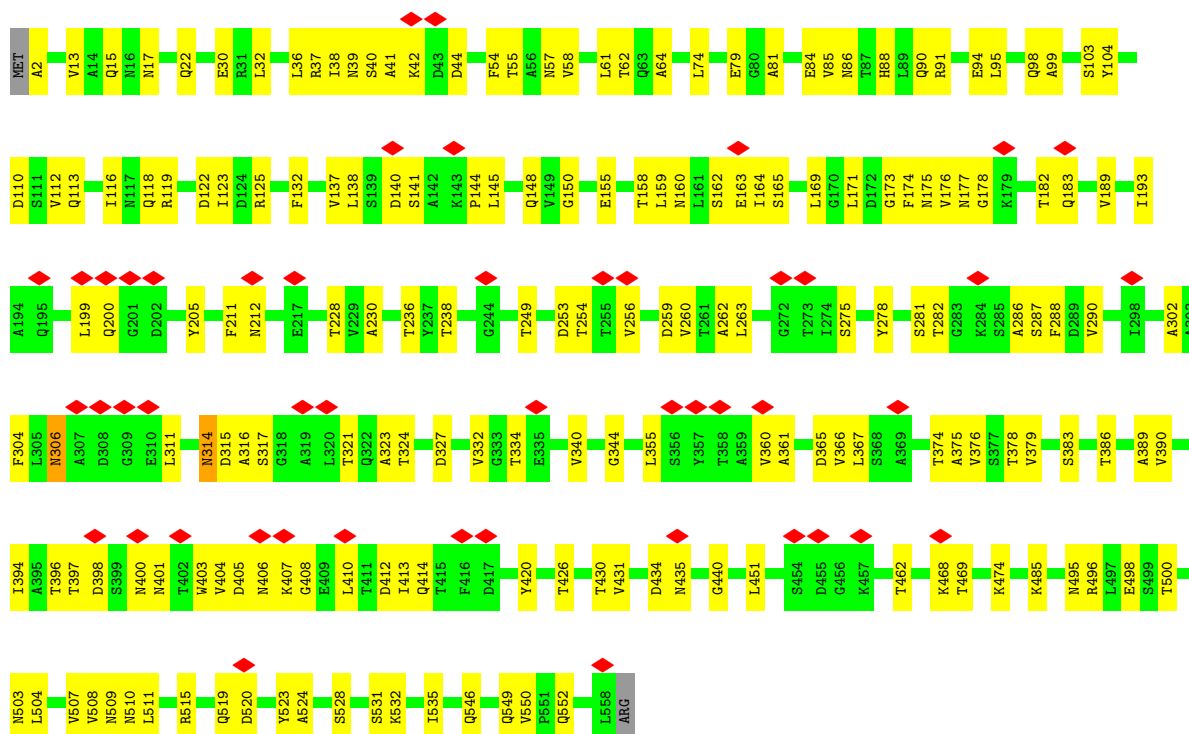




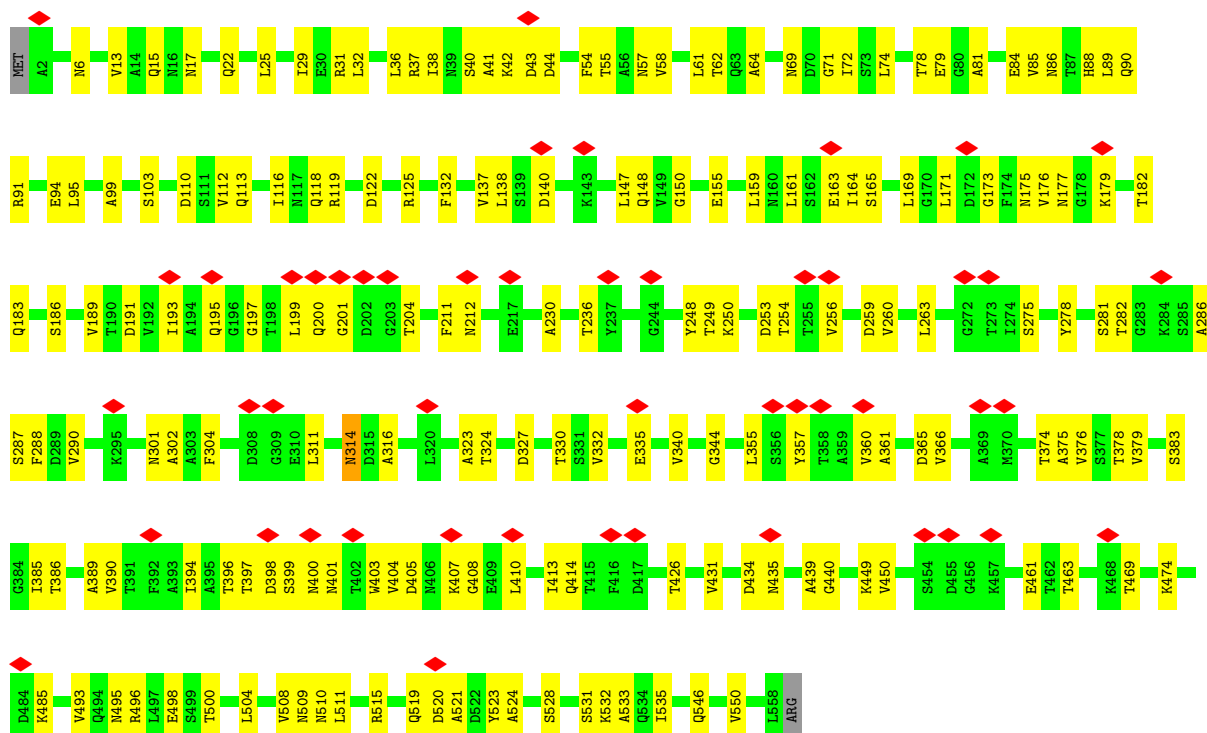
• Molecule 1: Flagellin



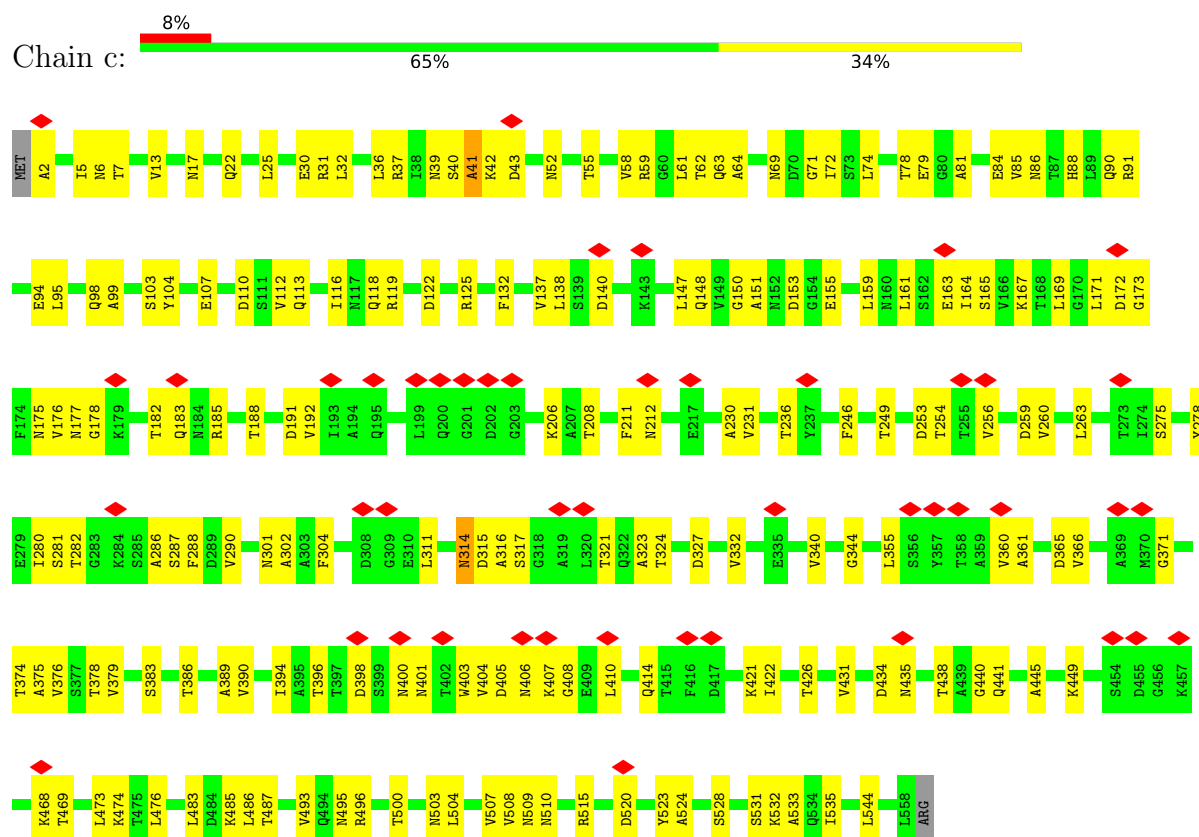
• Molecule 1: Flagellin



• Molecule 1: Flagellin

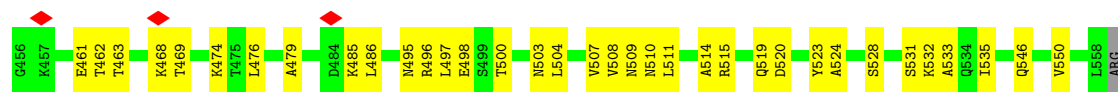


- Molecule 1: Flagellin

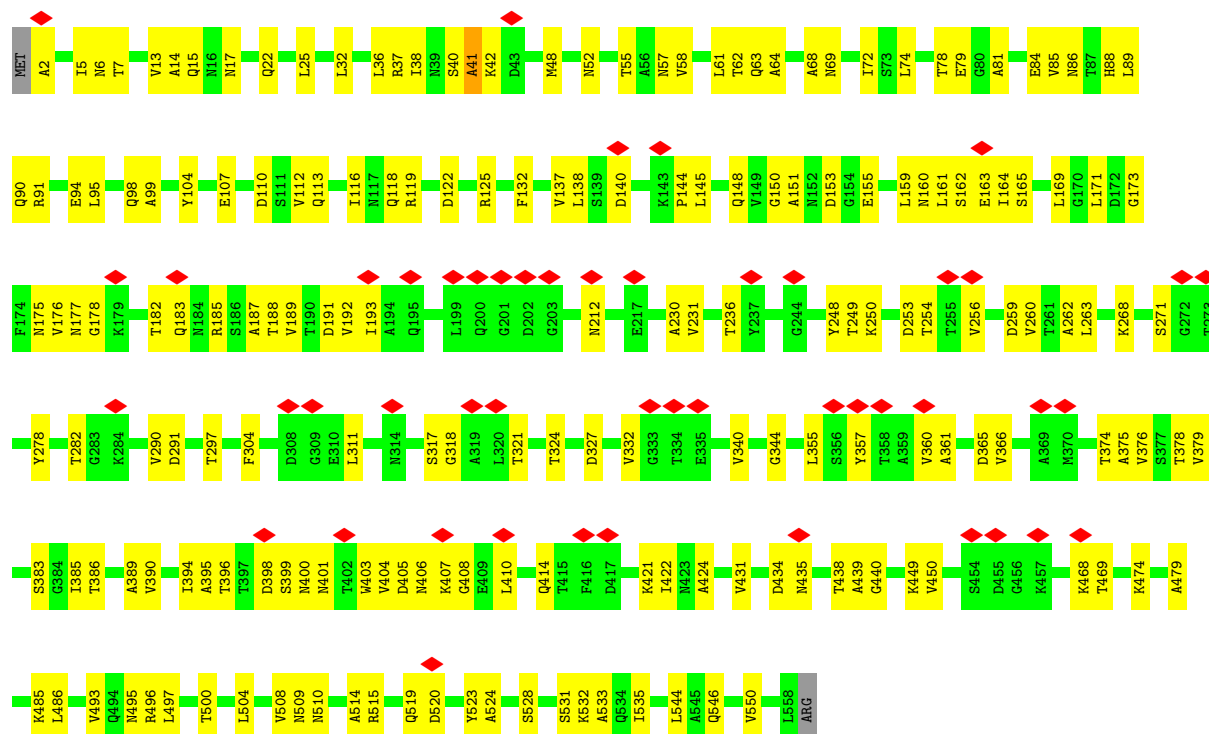


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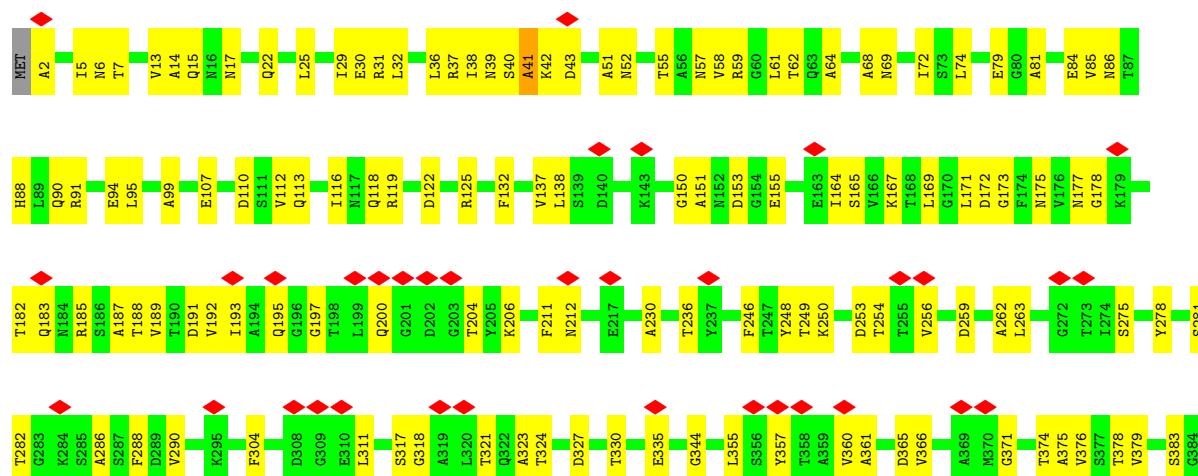


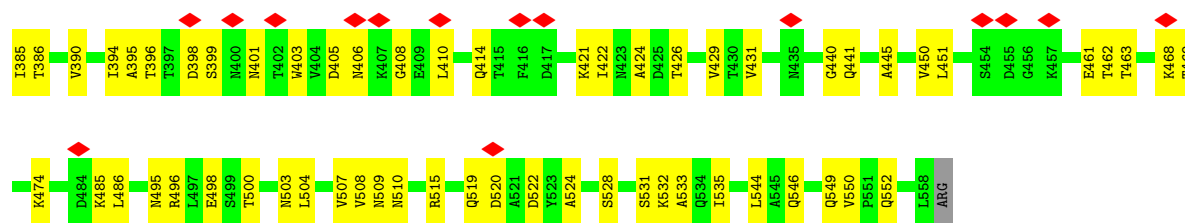


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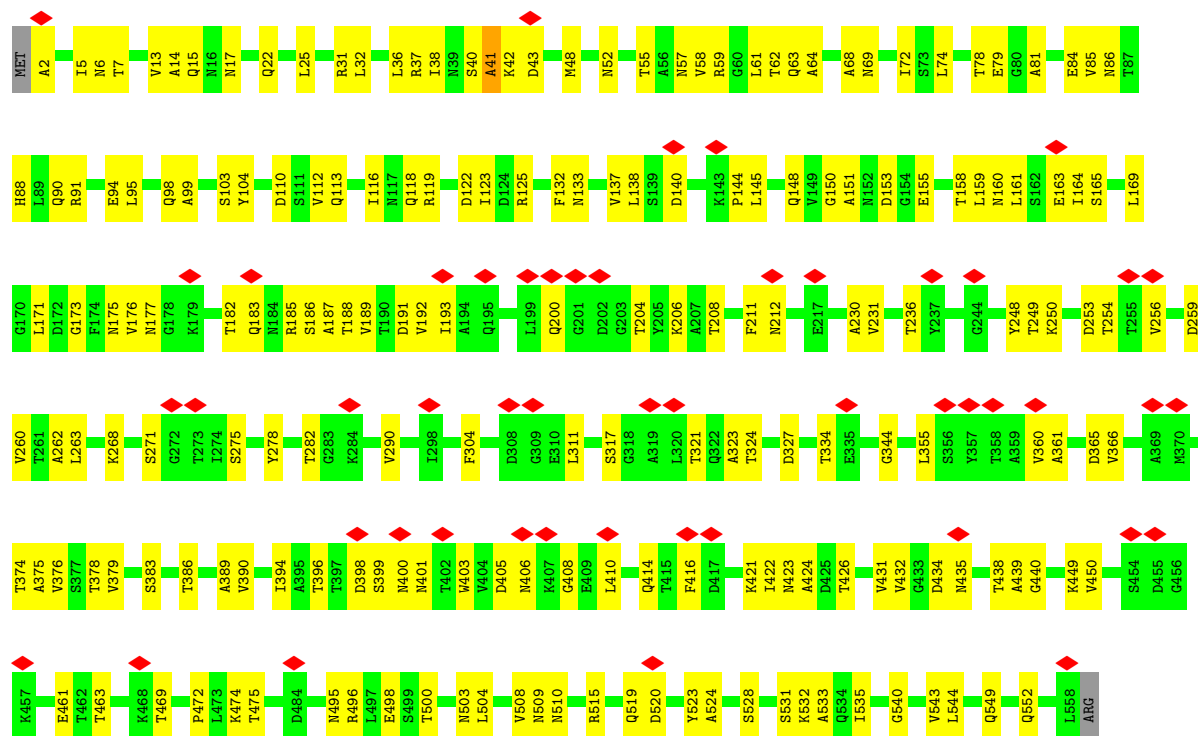


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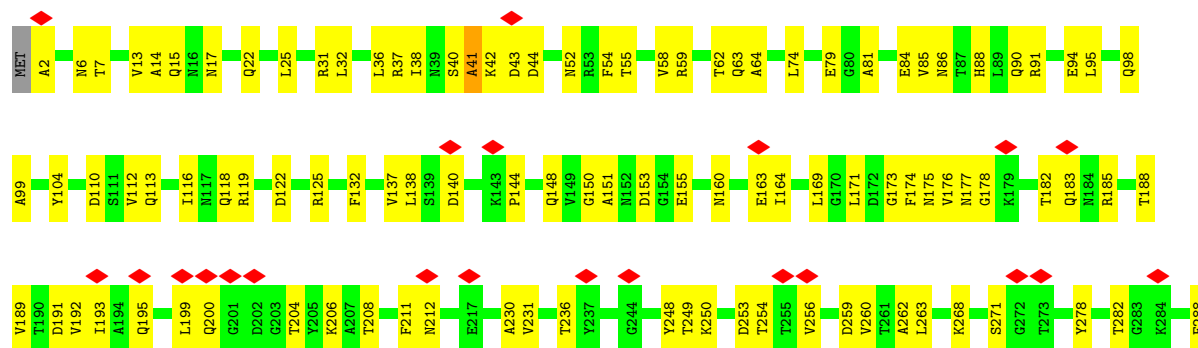


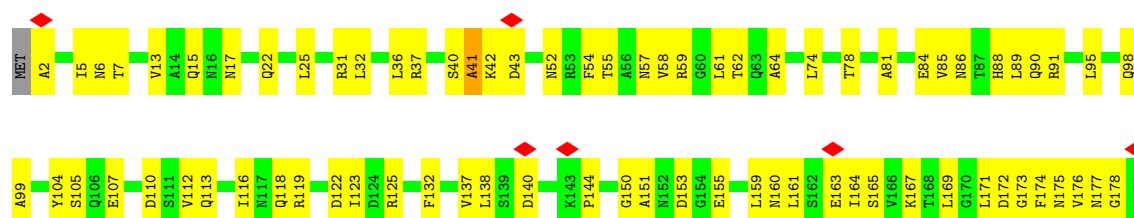


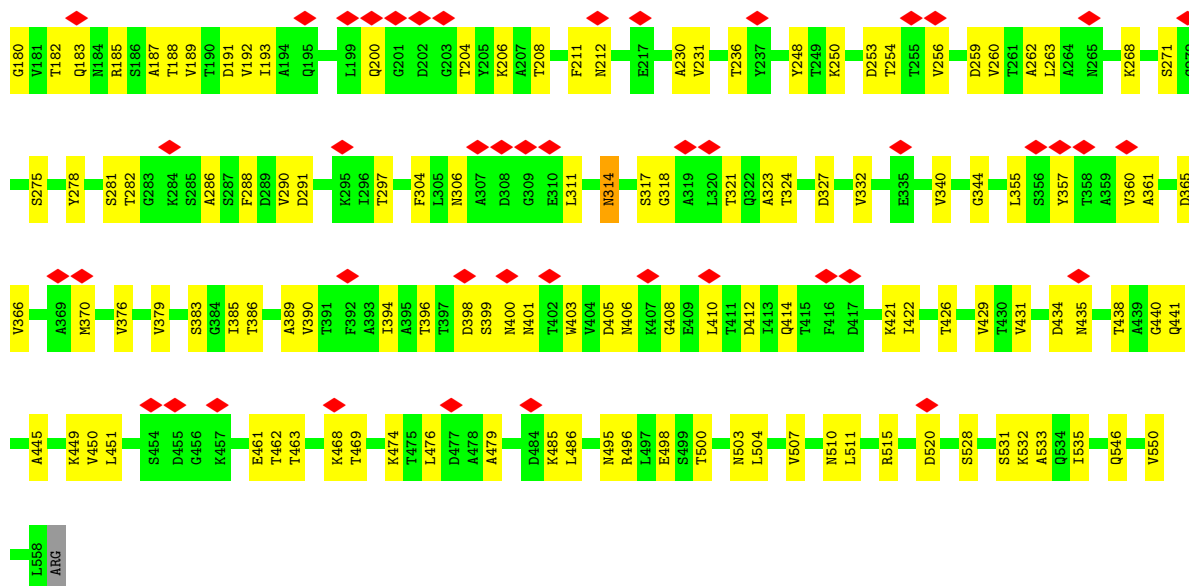
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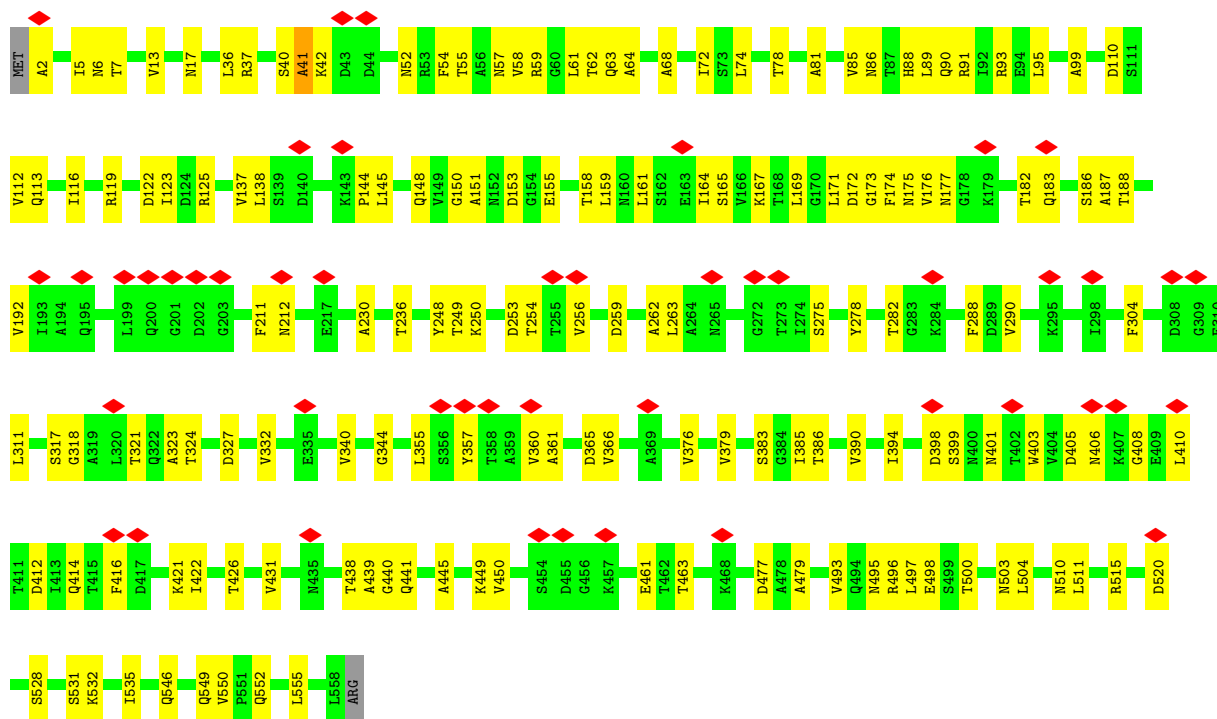
• Molecule 1: Flagellin





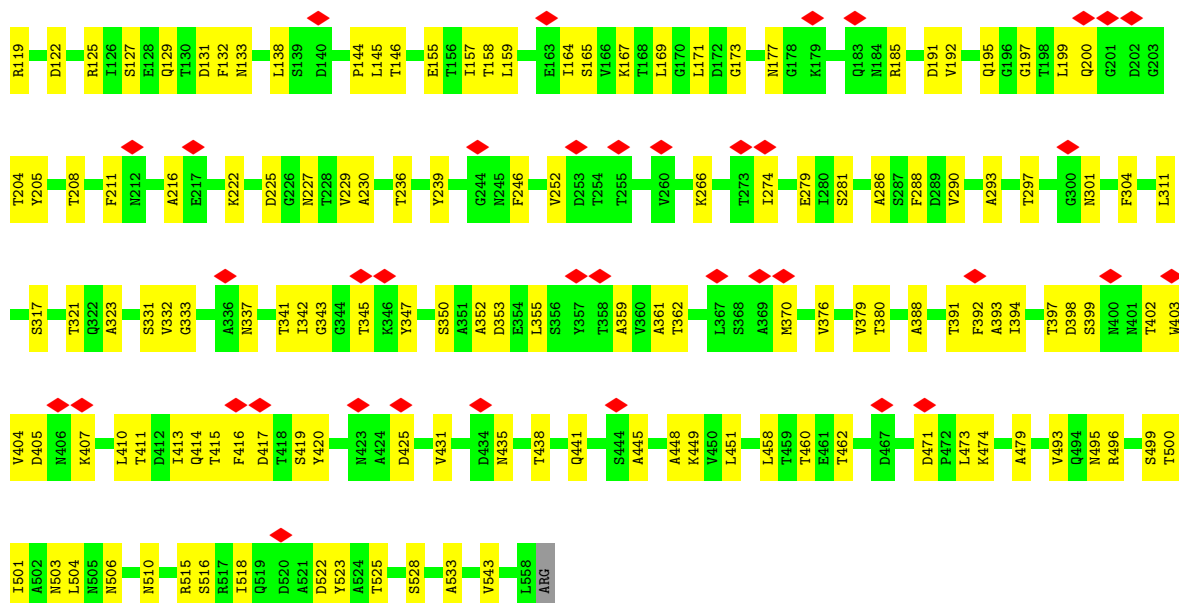


• Molecule 1: Flagellin

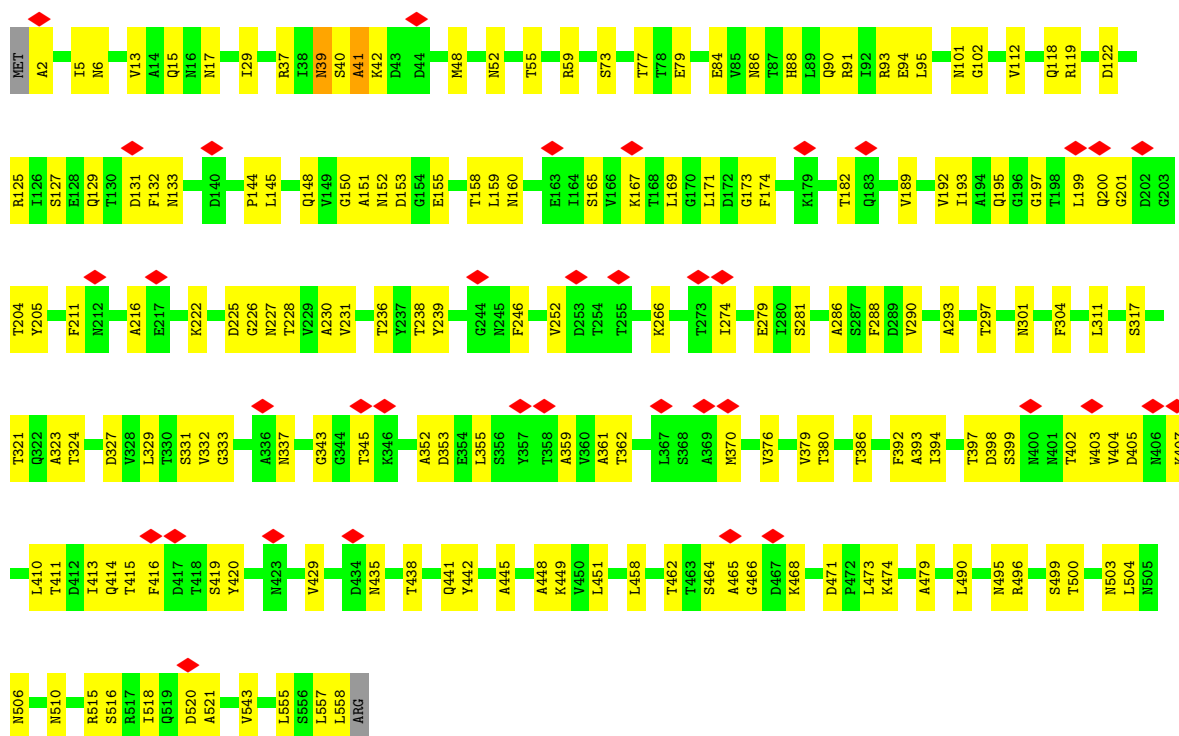


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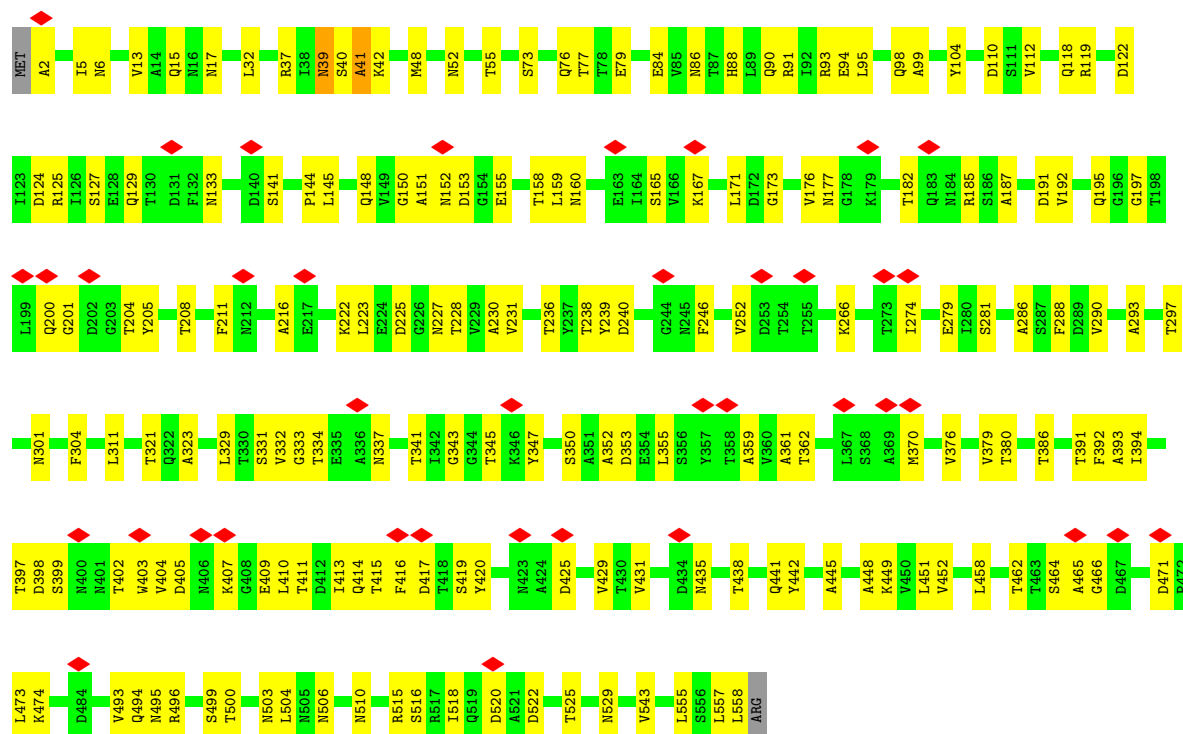


• Molecule 1: Flagellin

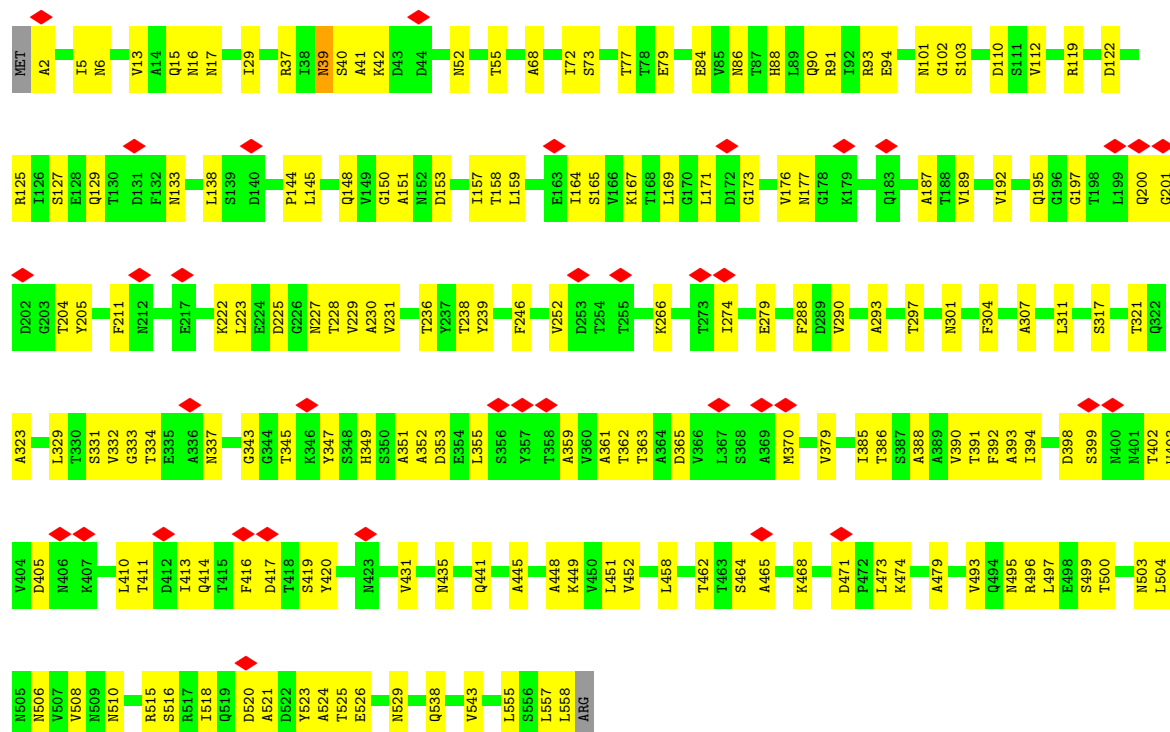


• Molecule 1: Flagellin

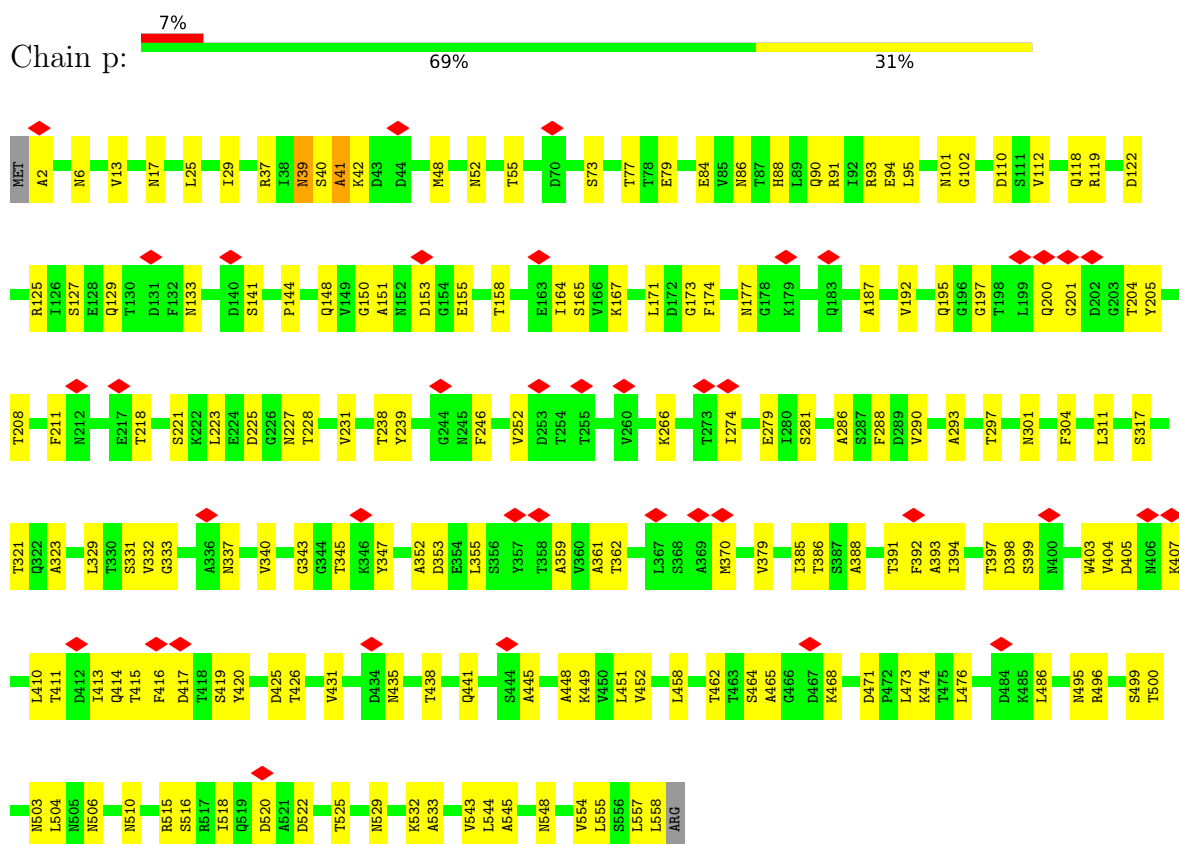




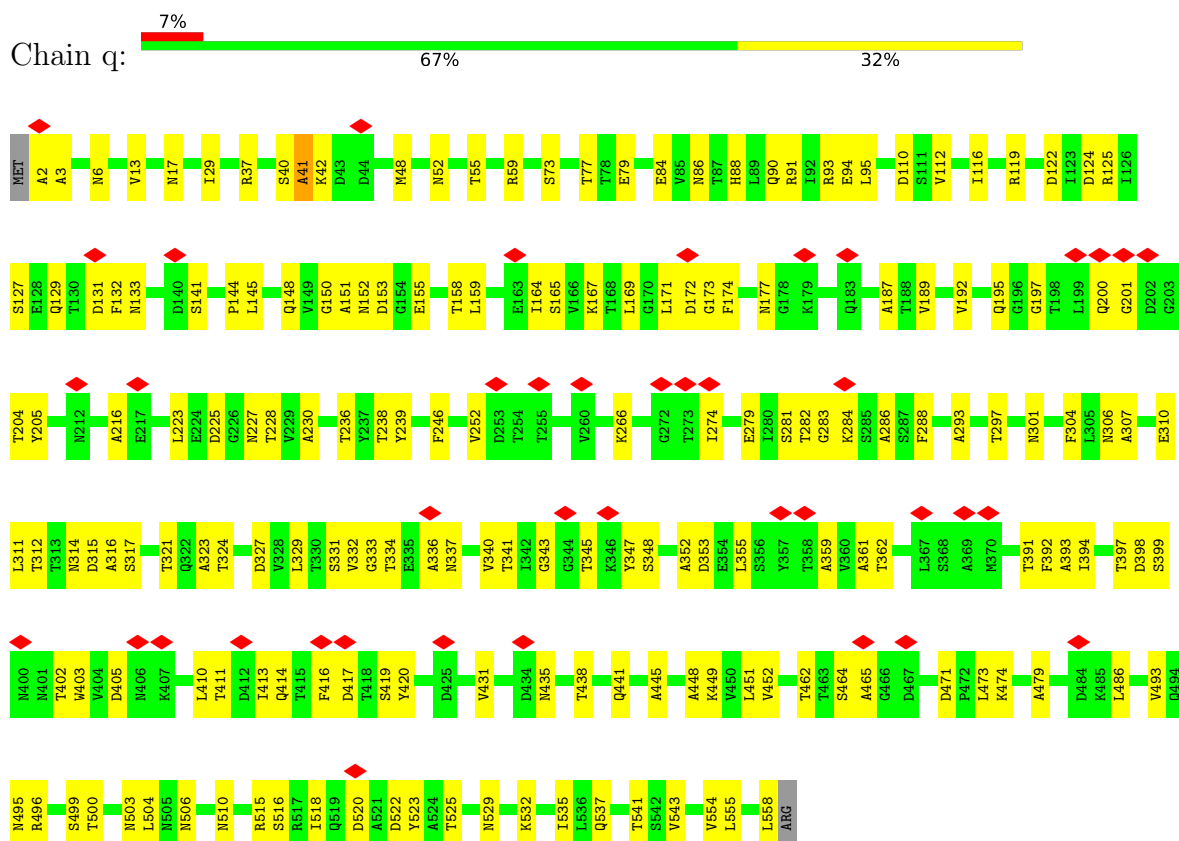
• Molecule 1: Flagellin



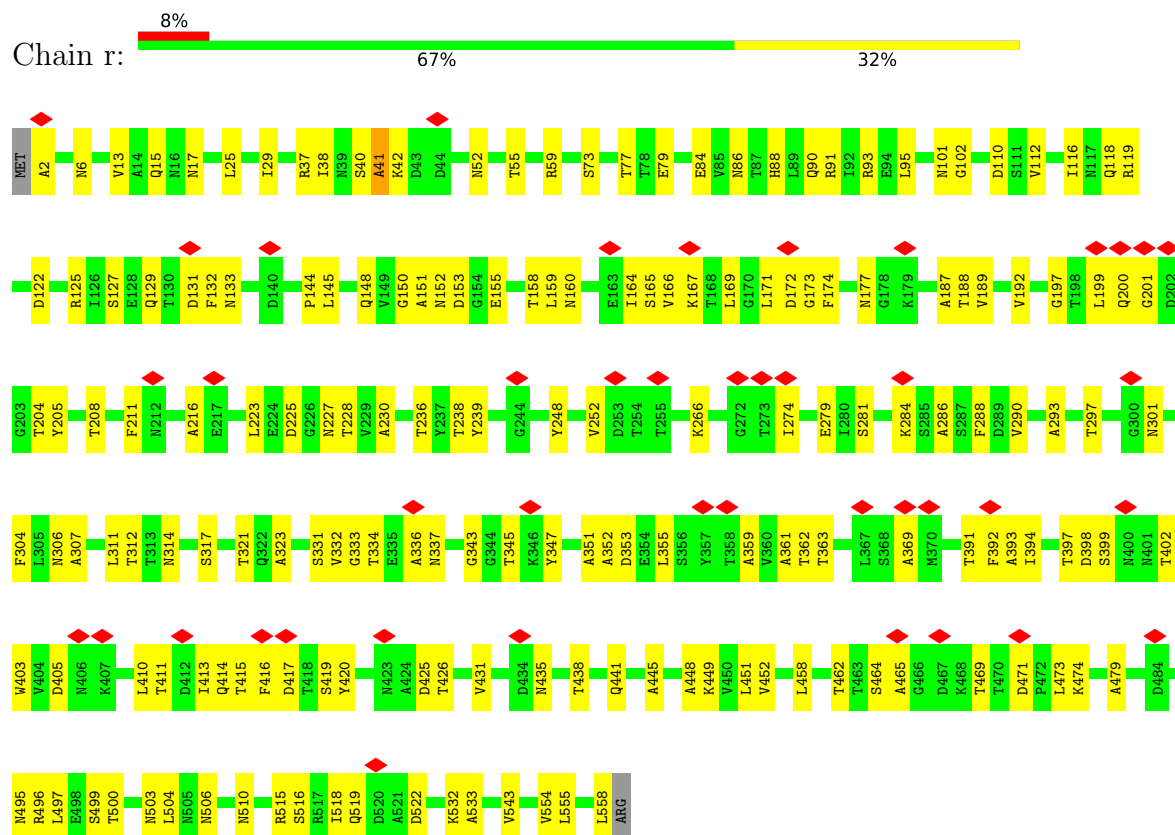
• Molecule 1: Flagellin



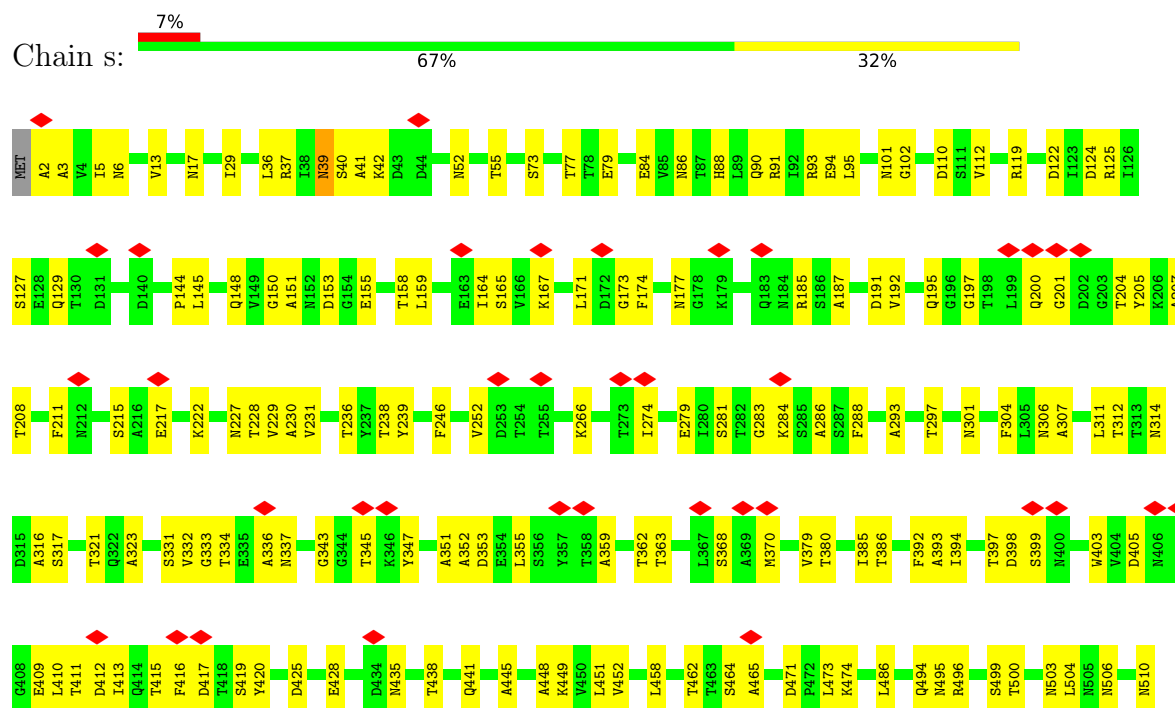
• Molecule 1: Flagellin



● Molecule 1: Flagellin

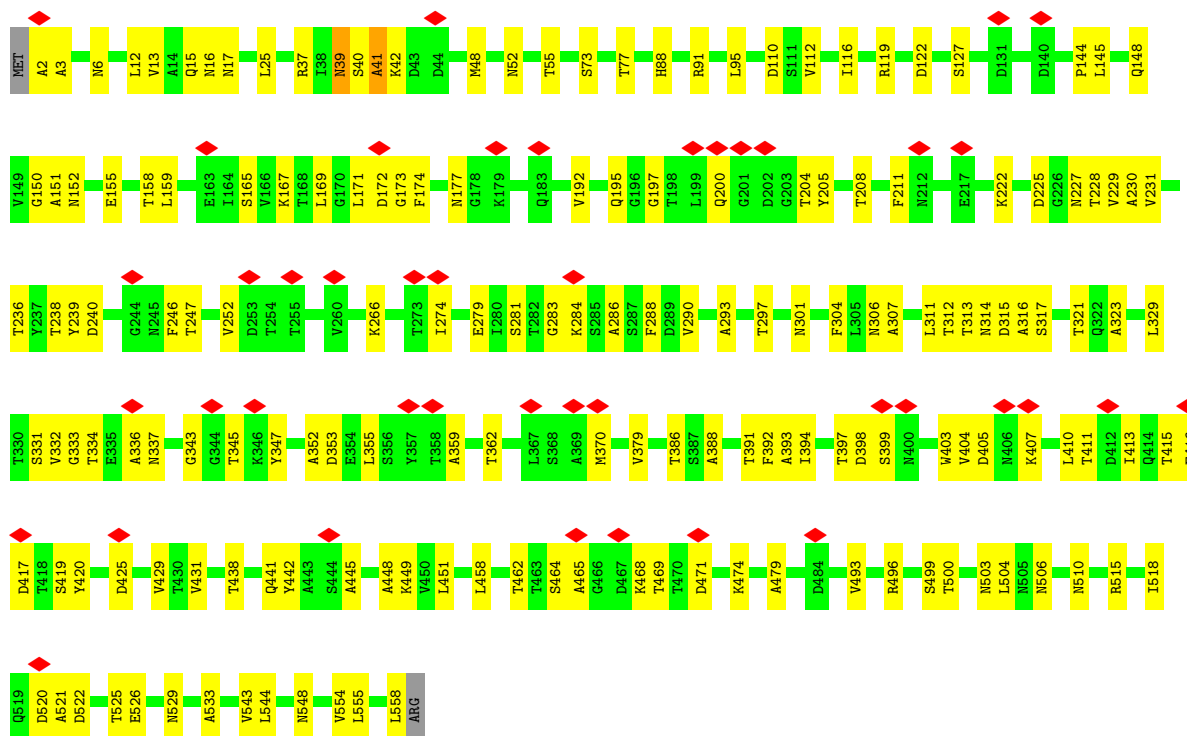


● Molecule 1: Flagellin





• Molecule 1: Flagellin



4 Experimental information

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=-98.4°, rise=18.9 Å, axial sym=C1	Depositor
Number of segments used	200000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{Å}^2$)	50	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	0.077	Depositor
Minimum map value	-0.030	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.007	Depositor
Recommended contour level	0.0214	Depositor
Map size (Å)	407.03998, 407.03998, 476.99997	wwPDB
Map dimensions	384, 384, 450	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.06, 1.06, 1.06	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	A	0.15	0/4039	0.37	0/5498
1	B	0.14	0/4039	0.35	0/5498
1	C	0.14	0/4039	0.34	0/5498
1	D	0.15	0/4039	0.36	0/5498
1	E	0.16	0/4039	0.38	0/5498
1	F	0.16	0/4039	0.38	0/5498
1	G	0.16	0/4039	0.38	0/5498
1	H	0.16	0/4039	0.38	0/5498
1	I	0.16	0/4039	0.38	0/5498
1	J	0.16	0/4039	0.38	0/5498
1	K	0.16	0/4039	0.38	0/5498
1	L	0.16	0/4039	0.38	0/5498
1	M	0.16	0/4039	0.39	0/5498
1	N	0.16	0/4039	0.38	0/5498
1	O	0.15	0/4039	0.37	0/5498
1	P	0.15	0/4039	0.36	0/5498
1	Q	0.15	0/4039	0.35	0/5498
1	R	0.15	0/4039	0.36	0/5498
1	S	0.15	0/4039	0.35	0/5498
1	T	0.15	0/4039	0.36	0/5498
1	U	0.16	0/4039	0.36	0/5498
1	V	0.16	0/4039	0.37	0/5498
1	W	0.16	0/4039	0.37	0/5498
1	X	0.15	0/4039	0.35	0/5498
1	Y	0.15	0/4039	0.35	0/5498
1	Z	0.15	0/4039	0.37	0/5498
1	a	0.14	0/4039	0.35	0/5498
1	b	0.15	0/4039	0.35	0/5498
1	c	0.15	0/4039	0.35	0/5498
1	d	0.15	0/4039	0.35	0/5498
1	e	0.15	0/4039	0.35	0/5498
1	f	0.15	0/4039	0.35	0/5498
1	g	0.15	0/4039	0.34	0/5498
1	h	0.15	0/4039	0.35	0/5498

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	i	0.15	0/4039	0.35	0/5498
1	j	0.15	0/4039	0.36	0/5498
1	k	0.14	0/4039	0.36	0/5498
1	l	0.15	0/4039	0.37	0/5498
1	m	0.16	0/4039	0.37	0/5498
1	n	0.16	0/4039	0.37	0/5498
1	o	0.16	0/4039	0.36	0/5498
1	p	0.16	0/4039	0.36	0/5498
1	q	0.15	0/4039	0.36	0/5498
1	r	0.17	0/4039	0.37	0/5498
1	s	0.16	0/4039	0.37	0/5498
1	t	0.15	0/4039	0.36	0/5498
1	u	0.15	0/4039	0.35	0/5498
1	v	0.15	0/4039	0.37	0/5498
All	All	0.15	0/193872	0.36	0/263904

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4010	0	3942	161	0
1	B	4010	0	3942	126	0
1	C	4010	0	3942	153	0
1	D	4010	0	3942	122	0
1	E	4010	0	3942	159	0
1	F	4010	0	3942	188	0
1	G	4010	0	3942	190	0
1	H	4010	0	3942	194	0
1	I	4010	0	3942	197	0
1	J	4010	0	3942	186	0
1	K	4010	0	3942	179	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L	4010	0	3942	170	0
1	M	4010	0	3942	172	0
1	N	4010	0	3942	158	0
1	O	4010	0	3942	147	0
1	P	4010	0	3942	142	0
1	Q	4010	0	3942	145	0
1	R	4010	0	3942	158	0
1	S	4010	0	3942	157	0
1	T	4010	0	3942	159	0
1	U	4010	0	3942	158	0
1	V	4010	0	3942	177	0
1	W	4010	0	3942	172	0
1	X	4010	0	3942	148	0
1	Y	4010	0	3942	150	0
1	Z	4010	0	3942	151	0
1	a	4010	0	3942	156	0
1	b	4010	0	3942	158	0
1	c	4010	0	3942	170	0
1	d	4010	0	3942	182	0
1	e	4010	0	3942	161	0
1	f	4010	0	3942	159	0
1	g	4010	0	3942	161	0
1	h	4010	0	3942	162	0
1	i	4010	0	3942	136	0
1	j	4010	0	3942	158	0
1	k	4010	0	3942	132	0
1	l	4010	0	3942	135	0
1	m	4010	0	3942	143	0
1	n	4010	0	3942	150	0
1	o	4010	0	3942	149	0
1	p	4010	0	3942	144	0
1	q	4010	0	3942	158	0
1	r	4010	0	3942	158	0
1	s	4010	0	3942	160	0
1	t	4010	0	3942	135	0
1	u	4010	0	3942	136	0
1	v	4010	0	3942	143	0
All	All	192480	0	189216	6510	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 17.

All (6510) 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:K:118:GLN:HG3	1:W:496:ARG:HD3	1.46	0.98
1:v:39:ASN:C	1:v:39:ASN:HD22	1.81	0.88
1:m:39:ASN:HD22	1:m:39:ASN:C	1.80	0.88
1:o:39:ASN:C	1:o:39:ASN:HD22	1.81	0.88
1:o:200:GLN:HE21	1:o:204:THR:HB	1.39	0.88
1:r:200:GLN:HE21	1:r:204:THR:HB	1.37	0.87
1:t:200:GLN:HE21	1:t:204:THR:HB	1.39	0.87
1:q:200:GLN:HE21	1:q:204:THR:HB	1.40	0.86
1:m:200:GLN:HE21	1:m:204:THR:HB	1.40	0.86
1:D:39:ASN:C	1:D:39:ASN:HD22	1.84	0.86
1:n:200:GLN:HE21	1:n:204:THR:HB	1.40	0.86
1:M:167:LYS:N	1:M:172:ASP:OD1	2.10	0.85
1:X:153:ASP:O	1:f:474:LYS:NZ	2.10	0.85
1:G:441:GLN:HE22	1:G:444:SER:H	1.25	0.84
1:H:441:GLN:HE22	1:H:444:SER:H	1.25	0.84
1:U:153:ASP:O	1:c:474:LYS:NZ	2.11	0.84
1:V:153:ASP:O	1:d:474:LYS:NZ	2.11	0.84
1:j:403:TRP:HB3	1:j:410:LEU:HD23	1.60	0.84
1:d:403:TRP:HB3	1:d:410:LEU:HD23	1.60	0.83
1:F:315:ASP:H	1:s:314:ASN:HD21	1.26	0.83
1:S:153:ASP:O	1:a:474:LYS:NZ	2.11	0.83
1:G:495:ASN:ND2	1:p:42:LYS:O	2.12	0.82
1:s:200:GLN:HE21	1:s:204:THR:HB	1.43	0.82
1:u:200:GLN:HE21	1:u:204:THR:HB	1.44	0.82
1:O:441:GLN:HE22	1:O:444:SER:H	1.27	0.82
1:v:200:GLN:HE21	1:v:204:THR:HB	1.41	0.82
1:p:39:ASN:HD22	1:p:39:ASN:C	1.88	0.82
1:p:200:GLN:HE21	1:p:204:THR:HB	1.44	0.82
1:Y:153:ASP:O	1:g:474:LYS:NZ	2.13	0.82
1:e:403:TRP:HB3	1:e:410:LEU:HD23	1.62	0.82
1:F:313:THR:O	1:s:314:ASN:ND2	2.12	0.81
1:V:52:ASN:OD1	1:d:90:GLN:NE2	2.13	0.81
1:f:403:TRP:HB3	1:f:410:LEU:HD23	1.62	0.81
1:J:441:GLN:HE22	1:J:444:SER:H	1.27	0.81
1:T:153:ASP:O	1:b:474:LYS:NZ	2.12	0.81
1:i:52:ASN:OD1	1:q:90:GLN:NE2	2.13	0.81
1:s:39:ASN:HD22	1:s:39:ASN:C	1.87	0.81
1:W:153:ASP:O	1:e:474:LYS:NZ	2.13	0.81
1:U:52:ASN:OD1	1:c:90:GLN:NE2	2.14	0.81
1:d:52:ASN:OD1	1:l:90:GLN:NE2	2.14	0.81
1:D:90:GLN:NE2	1:c:52:ASN:OD1	2.13	0.81
1:H:167:LYS:N	1:H:172:ASP:OD1	2.12	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:503:ASN:HB2	1:o:84:GLU:HG2	1.63	0.81
1:W:52:ASN:OD1	1:e:90:GLN:NE2	2.13	0.81
1:Z:52:ASN:OD1	1:h:90:GLN:NE2	2.13	0.81
1:I:122:ASP:HB2	1:U:496:ARG:HD2	1.63	0.81
1:B:403:TRP:HB3	1:B:410:LEU:HD23	1.62	0.81
1:G:122:ASP:HB2	1:S:496:ARG:HD2	1.61	0.81
1:P:403:TRP:HB3	1:P:410:LEU:HD23	1.62	0.81
1:j:52:ASN:OD1	1:r:90:GLN:NE2	2.14	0.81
1:l:200:GLN:HE21	1:l:204:THR:HB	1.45	0.81
1:C:90:GLN:NE2	1:R:52:ASN:OD1	2.14	0.81
1:S:52:ASN:OD1	1:a:90:GLN:NE2	2.14	0.81
1:Y:52:ASN:OD1	1:g:90:GLN:NE2	2.14	0.81
1:g:403:TRP:HB3	1:g:410:LEU:HD23	1.63	0.81
1:G:319:ALA:HB2	1:t:284:LYS:HZ1	1.46	0.80
1:A:122:ASP:HB2	1:P:496:ARG:HD2	1.63	0.80
1:K:122:ASP:HB2	1:W:496:ARG:HD2	1.63	0.80
1:Q:403:TRP:HB3	1:Q:410:LEU:HD23	1.64	0.80
1:X:52:ASN:OD1	1:f:90:GLN:NE2	2.15	0.80
1:C:403:TRP:HB3	1:C:410:LEU:HD23	1.64	0.80
1:H:495:ASN:ND2	1:q:42:LYS:O	2.13	0.80
1:a:403:TRP:HB3	1:a:410:LEU:HD23	1.64	0.80
1:f:138:LEU:HD11	1:f:164:ILE:HD12	1.63	0.80
1:T:52:ASN:OD1	1:b:90:GLN:NE2	2.15	0.80
1:M:122:ASP:HB2	1:Y:496:ARG:HD2	1.64	0.80
1:N:503:ASN:HB2	1:s:84:GLU:HG2	1.61	0.80
1:F:122:ASP:HB2	1:R:496:ARG:HD2	1.63	0.80
1:l:252:VAL:HG23	1:l:266:LYS:HD2	1.62	0.79
1:N:122:ASP:HB2	1:Z:496:ARG:HD2	1.64	0.79
1:c:84:GLU:HG2	1:o:503:ASN:HB2	1.65	0.79
1:t:252:VAL:HG23	1:t:266:LYS:HD2	1.63	0.79
1:g:22:GLN:OE1	1:s:2:ALA:N	2.15	0.79
1:L:441:GLN:HE22	1:L:444:SER:H	1.29	0.79
1:V:403:TRP:HB3	1:V:410:LEU:HD23	1.62	0.79
1:h:52:ASN:OD1	1:p:90:GLN:NE2	2.15	0.79
1:j:22:GLN:OE1	1:v:2:ALA:N	2.16	0.79
1:k:52:ASN:OD1	1:s:90:GLN:NE2	2.14	0.79
1:p:252:VAL:HG23	1:p:266:LYS:HD2	1.64	0.79
1:q:252:VAL:HG23	1:q:266:LYS:HD2	1.63	0.79
1:N:441:GLN:HE22	1:N:444:SER:H	1.29	0.79
1:R:403:TRP:HB3	1:R:410:LEU:HD23	1.64	0.79
1:k:403:TRP:HB3	1:k:410:LEU:HD23	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:122:ASP:HB2	1:T:496:ARG:HD2	1.64	0.79
1:K:495:ASN:ND2	1:t:42:LYS:O	2.16	0.79
1:S:403:TRP:HB3	1:S:410:LEU:HD23	1.64	0.79
1:W:403:TRP:HB3	1:W:410:LEU:HD23	1.63	0.79
1:i:403:TRP:HB3	1:i:410:LEU:HD23	1.63	0.79
1:Y:403:TRP:HB3	1:Y:410:LEU:HD23	1.65	0.78
1:g:52:ASN:OD1	1:o:90:GLN:NE2	2.15	0.78
1:T:378:THR:HG22	1:b:378:THR:HG22	1.64	0.78
1:D:252:VAL:HG23	1:D:266:LYS:HD2	1.65	0.78
1:o:252:VAL:HG23	1:o:266:LYS:HD2	1.63	0.78
1:j:138:LEU:HD11	1:j:164:ILE:HD12	1.66	0.78
1:l:370:MET:HE2	1:l:379:VAL:HG21	1.66	0.78
1:M:118:GLN:HG3	1:Y:496:ARG:HD3	1.64	0.78
1:X:403:TRP:HB3	1:X:410:LEU:HD23	1.66	0.78
1:J:495:ASN:ND2	1:s:42:LYS:O	2.16	0.78
1:H:474:LYS:NZ	1:q:153:ASP:O	2.17	0.78
1:r:252:VAL:HG23	1:r:266:LYS:HD2	1.64	0.78
1:Z:378:THR:HG22	1:h:378:THR:HG22	1.66	0.78
1:k:55:THR:HG22	1:k:515:ARG:HH11	1.47	0.78
1:M:441:GLN:HE22	1:M:444:SER:H	1.31	0.78
1:Z:403:TRP:HB3	1:Z:410:LEU:HD23	1.64	0.78
1:e:52:ASN:OD1	1:m:90:GLN:NE2	2.17	0.78
1:e:84:GLU:HG2	1:q:503:ASN:HB2	1.66	0.78
1:d:153:ASP:O	1:l:474:LYS:NZ	2.16	0.77
1:N:52:ASN:OD1	1:V:90:GLN:NE2	2.17	0.77
1:k:74:LEU:HD11	1:k:137:VAL:HG11	1.65	0.77
1:m:252:VAL:HG23	1:m:266:LYS:HD2	1.64	0.77
1:M:503:ASN:HB2	1:r:84:GLU:HG2	1.65	0.77
1:L:495:ASN:ND2	1:u:42:LYS:O	2.15	0.77
1:W:138:LEU:HD11	1:W:164:ILE:HB	1.65	0.77
1:k:153:ASP:O	1:s:474:LYS:NZ	2.17	0.77
1:v:252:VAL:HG23	1:v:266:LYS:HD2	1.65	0.77
1:E:315:ASP:OD1	1:r:314:ASN:ND2	2.17	0.77
1:E:495:ASN:ND2	1:n:42:LYS:O	2.16	0.77
1:I:441:GLN:HE22	1:I:444:SER:H	1.32	0.77
1:E:122:ASP:HB2	1:Q:496:ARG:HD2	1.65	0.77
1:h:403:TRP:HB3	1:h:410:LEU:HD23	1.66	0.77
1:L:52:ASN:OD1	1:T:90:GLN:NE2	2.18	0.77
1:X:378:THR:HG22	1:f:378:THR:HG22	1.66	0.77
1:h:55:THR:HG22	1:h:515:ARG:HH11	1.50	0.77
1:F:495:ASN:ND2	1:o:42:LYS:O	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:474:LYS:NZ	1:t:153:ASP:O	2.18	0.77
1:M:495:ASN:ND2	1:v:42:LYS:O	2.16	0.77
1:U:549:GLN:HB3	1:U:552:GLN:HE22	1.47	0.77
1:i:84:GLU:HG2	1:u:503:ASN:HB2	1.66	0.77
1:l:39:ASN:C	1:l:39:ASN:HD22	1.91	0.77
1:B:474:LYS:NZ	1:G:153:ASP:O	2.18	0.77
1:E:474:LYS:NZ	1:n:153:ASP:O	2.18	0.77
1:g:55:THR:HG22	1:g:515:ARG:HH11	1.49	0.77
1:j:55:THR:HG22	1:j:515:ARG:HH11	1.48	0.77
1:I:153:ASP:O	1:Q:474:LYS:NZ	2.18	0.76
1:I:474:LYS:NZ	1:r:153:ASP:O	2.18	0.76
1:T:403:TRP:HB3	1:T:410:LEU:HD23	1.65	0.76
1:g:84:GLU:HG2	1:s:503:ASN:HB2	1.67	0.76
1:u:252:VAL:HG23	1:u:266:LYS:HD2	1.65	0.76
1:g:88:HIS:NE2	1:g:122:ASP:OD2	2.19	0.76
1:n:252:VAL:HG23	1:n:266:LYS:HD2	1.67	0.76
1:C:88:HIS:NE2	1:C:122:ASP:OD2	2.19	0.76
1:u:370:MET:HE2	1:u:379:VAL:HG21	1.65	0.76
1:B:90:GLN:NE2	1:G:52:ASN:OD1	2.19	0.76
1:a:55:THR:HG22	1:a:515:ARG:HH11	1.50	0.76
1:t:370:MET:HE2	1:t:379:VAL:HG21	1.67	0.76
1:j:84:GLU:HG2	1:v:503:ASN:HB2	1.68	0.76
1:A:474:LYS:NZ	1:m:153:ASP:O	2.19	0.76
1:b:403:TRP:HB3	1:b:410:LEU:HD23	1.66	0.76
1:c:403:TRP:HB3	1:c:410:LEU:HD23	1.67	0.76
1:d:55:THR:HG22	1:d:515:ARG:HH11	1.50	0.76
1:A:441:GLN:HE22	1:A:444:SER:H	1.30	0.76
1:O:52:ASN:OD1	1:W:90:GLN:NE2	2.19	0.76
1:S:378:THR:HG22	1:a:378:THR:HG22	1.67	0.76
1:i:153:ASP:O	1:q:474:LYS:NZ	2.18	0.76
1:s:252:VAL:HG23	1:s:266:LYS:HD2	1.66	0.76
1:K:153:ASP:O	1:S:474:LYS:NZ	2.18	0.75
1:U:378:THR:HG22	1:c:378:THR:HG22	1.67	0.75
1:f:88:HIS:NE2	1:f:122:ASP:OD2	2.19	0.75
1:j:88:HIS:NE2	1:j:122:ASP:OD2	2.20	0.75
1:D:200:GLN:HE21	1:D:204:THR:HB	1.51	0.75
1:N:153:ASP:O	1:V:474:LYS:NZ	2.20	0.75
1:i:55:THR:HG22	1:i:515:ARG:HH11	1.51	0.75
1:N:69:ASN:HA	1:N:72:ILE:HD12	1.68	0.75
1:W:378:THR:HG22	1:e:378:THR:HG22	1.67	0.75
1:f:84:GLU:HG2	1:r:503:ASN:HB2	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:153:ASP:O	1:W:474:LYS:NZ	2.20	0.75
1:a:88:HIS:NE2	1:a:122:ASP:OD2	2.20	0.75
1:c:138:LEU:HD11	1:c:164:ILE:HD12	1.67	0.75
1:r:88:HIS:NE2	1:r:122:ASP:OD2	2.19	0.75
1:H:84:GLU:HG2	1:T:503:ASN:HB2	1.68	0.75
1:l:88:HIS:NE2	1:l:122:ASP:OD2	2.20	0.75
1:o:88:HIS:NE2	1:o:122:ASP:OD2	2.20	0.75
1:q:88:HIS:NE2	1:q:122:ASP:OD2	2.20	0.75
1:H:153:ASP:O	1:P:474:LYS:NZ	2.19	0.75
1:L:503:ASN:HB2	1:q:84:GLU:HG2	1.66	0.75
1:A:495:ASN:ND2	1:m:42:LYS:O	2.18	0.75
1:I:495:ASN:ND2	1:r:42:LYS:O	2.17	0.75
1:L:153:ASP:O	1:T:474:LYS:NZ	2.19	0.75
1:b:88:HIS:NE2	1:b:122:ASP:OD2	2.20	0.75
1:J:52:ASN:OD1	1:R:90:GLN:NE2	2.20	0.75
1:M:52:ASN:OD1	1:U:90:GLN:NE2	2.19	0.74
1:c:55:THR:HG22	1:c:515:ARG:HH11	1.52	0.74
1:I:52:ASN:OD1	1:Q:90:GLN:NE2	2.20	0.74
1:M:153:ASP:O	1:U:474:LYS:NZ	2.21	0.74
1:e:22:GLN:OE1	1:q:2:ALA:N	2.20	0.74
1:K:7:THR:HG1	1:S:516:SER:HG	1.31	0.74
1:c:88:HIS:NE2	1:c:122:ASP:OD2	2.21	0.74
1:h:88:HIS:NE2	1:h:122:ASP:OD2	2.20	0.74
1:s:88:HIS:NE2	1:s:122:ASP:OD2	2.20	0.74
1:I:88:HIS:NE2	1:I:122:ASP:OD2	2.21	0.74
1:A:315:ASP:OD1	1:q:314:ASN:ND2	2.20	0.74
1:C:84:GLU:HG2	1:l:503:ASN:HB2	1.68	0.74
1:R:177:ASN:OD1	1:R:178:GLY:N	2.21	0.74
1:Y:378:THR:HG22	1:g:378:THR:HG22	1.68	0.74
1:V:378:THR:HG22	1:d:378:THR:HG22	1.69	0.74
1:e:138:LEU:HD11	1:e:164:ILE:HD12	1.68	0.74
1:F:315:ASP:OD1	1:s:314:ASN:ND2	2.21	0.74
1:I:315:ASP:OD1	1:v:314:ASN:ND2	2.20	0.74
1:v:544:LEU:O	1:v:548:ASN:ND2	2.21	0.74
1:F:88:HIS:NE2	1:F:122:ASP:OD2	2.21	0.74
1:A:88:HIS:NE2	1:A:122:ASP:OD2	2.21	0.73
1:P:177:ASN:OD1	1:P:178:GLY:N	2.21	0.73
1:T:177:ASN:OD1	1:T:178:GLY:N	2.21	0.73
1:m:88:HIS:NE2	1:m:122:ASP:OD2	2.21	0.73
1:J:84:GLU:HG2	1:V:503:ASN:HB2	1.70	0.73
1:h:84:GLU:HG2	1:t:503:ASN:HB2	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:52:ASN:OD1	1:P:90:GLN:NE2	2.21	0.73
1:a:84:GLU:HG2	1:m:503:ASN:HB2	1.69	0.73
1:i:88:HIS:NE2	1:i:122:ASP:OD2	2.20	0.73
1:E:441:GLN:HE22	1:E:444:SER:H	1.34	0.73
1:K:52:ASN:OD1	1:S:90:GLN:NE2	2.22	0.73
1:D:88:HIS:NE2	1:D:122:ASP:OD2	2.21	0.73
1:e:88:HIS:NE2	1:e:122:ASP:OD2	2.21	0.73
1:d:88:HIS:NE2	1:d:122:ASP:OD2	2.21	0.73
1:b:55:THR:HG22	1:b:515:ARG:HH11	1.53	0.73
1:e:55:THR:HG22	1:e:515:ARG:HH11	1.52	0.73
1:n:88:HIS:NE2	1:n:122:ASP:OD2	2.21	0.73
1:p:88:HIS:NE2	1:p:122:ASP:OD2	2.20	0.73
1:O:69:ASN:HA	1:O:72:ILE:HD12	1.70	0.72
1:Y:471:ASP:HB3	1:Y:474:LYS:HG2	1.71	0.72
1:d:84:GLU:HG2	1:p:503:ASN:HB2	1.68	0.72
1:e:7:THR:HG1	1:m:516:SER:HG	1.28	0.72
1:f:55:THR:HG22	1:f:515:ARG:HH11	1.55	0.72
1:E:84:GLU:HG2	1:Q:503:ASN:HB2	1.71	0.72
1:G:315:ASP:OD1	1:t:314:ASN:ND2	2.22	0.72
1:h:22:GLN:OE1	1:t:2:ALA:N	2.22	0.72
1:I:175:ASN:ND2	1:I:177:ASN:O	2.23	0.72
1:C:378:THR:HG22	1:R:378:THR:HG22	1.72	0.72
1:Y:177:ASN:OD1	1:Y:178:GLY:N	2.22	0.72
1:Z:177:ASN:OD1	1:Z:178:GLY:N	2.22	0.72
1:O:393:ALA:N	1:O:398:ASP:OD2	2.22	0.72
1:X:177:ASN:OD1	1:X:178:GLY:N	2.23	0.72
1:u:222:LYS:HE2	1:u:392:PHE:HE2	1.54	0.72
1:U:16:ASN:ND2	1:c:509:ASN:OD1	2.22	0.72
1:t:88:HIS:NE2	1:t:122:ASP:OD2	2.22	0.72
1:E:88:HIS:NE2	1:E:122:ASP:OD2	2.23	0.72
1:o:304:PHE:HA	1:o:323:ALA:HB2	1.72	0.72
1:O:16:ASN:OD1	1:W:509:ASN:ND2	2.23	0.71
1:J:90:GLN:NE2	1:s:52:ASN:OD1	2.23	0.71
1:W:177:ASN:OD1	1:W:178:GLY:N	2.22	0.71
1:N:7:THR:HG1	1:V:516:SER:HG	1.34	0.71
1:p:304:PHE:HA	1:p:323:ALA:HB2	1.71	0.71
1:E:175:ASN:ND2	1:E:177:ASN:O	2.24	0.71
1:J:16:ASN:OD1	1:R:509:ASN:ND2	2.24	0.71
1:M:304:PHE:HB3	1:M:321:THR:HB	1.72	0.71
1:N:16:ASN:OD1	1:V:509:ASN:ND2	2.24	0.71
1:N:88:HIS:NE2	1:N:122:ASP:OD2	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:177:ASN:OD1	1:B:178:GLY:N	2.24	0.71
1:J:175:ASN:ND2	1:J:177:ASN:O	2.22	0.71
1:L:219:VAL:HG21	1:L:403:TRP:HZ2	1.56	0.71
1:S:177:ASN:OD1	1:S:178:GLY:N	2.23	0.71
1:L:471:ASP:HB3	1:L:474:LYS:HB2	1.72	0.71
1:M:88:HIS:NE2	1:M:122:ASP:OD2	2.24	0.71
1:O:175:ASN:ND2	1:O:177:ASN:O	2.23	0.71
1:s:304:PHE:HA	1:s:323:ALA:HB2	1.73	0.71
1:t:304:PHE:HA	1:t:323:ALA:HB2	1.73	0.71
1:A:393:ALA:N	1:A:398:ASP:OD2	2.24	0.71
1:F:441:GLN:HE22	1:F:444:SER:H	1.37	0.71
1:H:304:PHE:HB3	1:H:321:THR:HB	1.72	0.71
1:K:88:HIS:NE2	1:K:122:ASP:OD2	2.23	0.71
1:K:175:ASN:ND2	1:K:177:ASN:O	2.24	0.71
1:K:304:PHE:HB3	1:K:321:THR:HB	1.73	0.71
1:m:304:PHE:HA	1:m:323:ALA:HB2	1.73	0.71
1:J:304:PHE:HB3	1:J:321:THR:HB	1.71	0.71
1:U:177:ASN:OD1	1:U:178:GLY:N	2.22	0.71
1:V:278:TYR:HE1	1:V:292:ALA:HB3	1.54	0.71
1:C:55:THR:HG22	1:C:515:ARG:HH11	1.55	0.71
1:G:304:PHE:HB3	1:G:321:THR:HB	1.72	0.71
1:f:52:ASN:OD1	1:n:90:GLN:NE2	2.24	0.71
1:H:16:ASN:OD1	1:P:509:ASN:ND2	2.24	0.70
1:L:16:ASN:OD1	1:T:509:ASN:ND2	2.24	0.70
1:G:175:ASN:ND2	1:G:177:ASN:O	2.23	0.70
1:H:7:THR:HG1	1:P:516:SER:HG	1.33	0.70
1:M:16:ASN:OD1	1:U:509:ASN:ND2	2.24	0.70
1:b:84:GLU:HG2	1:n:503:ASN:HB2	1.73	0.70
1:d:138:LEU:HD11	1:d:164:ILE:HD12	1.73	0.70
1:u:304:PHE:HA	1:u:323:ALA:HB2	1.73	0.70
1:A:390:VAL:HG23	1:A:403:TRP:HH2	1.56	0.70
1:F:175:ASN:ND2	1:F:177:ASN:O	2.25	0.70
1:J:219:VAL:HG21	1:J:403:TRP:HZ2	1.55	0.70
1:W:16:ASN:ND2	1:e:509:ASN:OD1	2.22	0.70
1:n:222:LYS:HE2	1:n:392:PHE:HE2	1.56	0.70
1:C:509:ASN:OD1	1:R:16:ASN:ND2	2.25	0.70
1:G:503:ASN:HB2	1:l:84:GLU:HG2	1.72	0.70
1:s:222:LYS:HE2	1:s:392:PHE:HE2	1.56	0.70
1:v:222:LYS:HE2	1:v:392:PHE:HE2	1.56	0.70
1:K:16:ASN:OD1	1:S:509:ASN:ND2	2.25	0.70
1:V:16:ASN:ND2	1:d:509:ASN:OD1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:16:ASN:ND2	1:g:509:ASN:OD1	2.25	0.70
1:G:471:ASP:HB3	1:G:474:LYS:HB2	1.73	0.69
1:v:304:PHE:HA	1:v:323:ALA:HB2	1.74	0.69
1:F:505:ASN:O	1:F:509:ASN:ND2	2.25	0.69
1:V:177:ASN:OD1	1:V:178:GLY:N	2.25	0.69
1:E:254:THR:HG22	1:E:362:THR:HB	1.75	0.69
1:I:16:ASN:OD1	1:Q:509:ASN:ND2	2.25	0.69
1:T:16:ASN:ND2	1:b:509:ASN:OD1	2.24	0.69
1:V:5:ILE:HG12	1:d:523:TYR:HE1	1.58	0.69
1:M:304:PHE:HA	1:M:323:ALA:HB2	1.73	0.69
1:i:138:LEU:HD11	1:i:164:ILE:HD12	1.74	0.69
1:N:175:ASN:ND2	1:N:177:ASN:O	2.26	0.69
1:U:5:ILE:HG12	1:c:523:TYR:HE2	1.57	0.69
1:J:393:ALA:N	1:J:398:ASP:OD2	2.24	0.69
1:M:175:ASN:ND2	1:M:177:ASN:O	2.25	0.69
1:X:16:ASN:ND2	1:f:509:ASN:OD1	2.23	0.69
1:G:393:ALA:N	1:G:398:ASP:OD2	2.26	0.69
1:B:509:ASN:ND2	1:G:16:ASN:OD1	2.25	0.69
1:F:315:ASP:N	1:s:314:ASN:HD21	1.91	0.69
1:G:88:HIS:NE2	1:G:122:ASP:OD2	2.24	0.69
1:I:133:ASN:HD21	1:U:50:ILE:HD12	1.57	0.69
1:K:90:GLN:NE2	1:t:52:ASN:OD1	2.26	0.69
1:Z:42:LYS:O	1:h:495:ASN:ND2	2.25	0.69
1:c:544:LEU:HD22	1:o:557:LEU:HD22	1.75	0.69
1:A:90:GLN:NE2	1:m:52:ASN:OD1	2.26	0.69
1:A:125:ARG:NH2	1:P:500:THR:HG22	2.08	0.69
1:E:393:ALA:N	1:E:398:ASP:OD2	2.25	0.69
1:K:125:ARG:NH2	1:W:500:THR:HG22	2.08	0.69
1:K:393:ALA:N	1:K:398:ASP:OD2	2.26	0.69
1:L:118:GLN:OE1	1:X:496:ARG:NH1	2.26	0.69
1:f:396:THR:O	1:r:399:SER:OG	2.11	0.69
1:u:88:HIS:NE2	1:u:122:ASP:OD2	2.26	0.69
1:F:298:ILE:HG23	1:F:301:ASN:HB2	1.75	0.68
1:G:125:ARG:NH2	1:S:500:THR:HG22	2.08	0.68
1:O:510:ASN:HD22	1:t:77:THR:HA	1.57	0.68
1:C:78:THR:HG21	1:C:161:LEU:HD12	1.74	0.68
1:F:304:PHE:HB3	1:F:321:THR:HB	1.74	0.68
1:H:13:VAL:O	1:H:17:ASN:ND2	2.24	0.68
1:L:304:PHE:HB3	1:L:321:THR:HB	1.75	0.68
1:N:304:PHE:HB3	1:N:321:THR:HB	1.74	0.68
1:Y:42:LYS:O	1:g:495:ASN:ND2	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:78:THR:HG21	1:d:161:LEU:HD12	1.75	0.68
1:E:133:ASN:HD21	1:Q:50:ILE:HD12	1.59	0.68
1:L:88:HIS:NE2	1:L:122:ASP:OD2	2.27	0.68
1:Z:16:ASN:ND2	1:h:509:ASN:OD1	2.24	0.68
1:e:78:THR:HG21	1:e:161:LEU:HD12	1.74	0.68
1:f:191:ASP:O	1:f:195:GLN:NE2	2.27	0.68
1:D:451:LEU:HD22	1:D:462:THR:HA	1.75	0.68
1:F:393:ALA:N	1:F:398:ASP:OD2	2.25	0.68
1:J:304:PHE:HA	1:J:323:ALA:HB2	1.73	0.68
1:k:88:HIS:NE2	1:k:122:ASP:OD2	2.26	0.68
1:H:88:HIS:NE2	1:H:122:ASP:OD2	2.27	0.68
1:E:90:GLN:NE2	1:n:52:ASN:OD1	2.27	0.68
1:J:122:ASP:HB2	1:V:496:ARG:HD2	1.76	0.68
1:a:74:LEU:HD11	1:a:137:VAL:HG11	1.75	0.68
1:h:191:ASP:O	1:h:195:GLN:NE2	2.26	0.68
1:j:7:THR:OG1	1:r:516:SER:OG	2.09	0.68
1:k:138:LEU:HD11	1:k:164:ILE:HD12	1.75	0.68
1:L:474:LYS:NZ	1:u:153:ASP:O	2.26	0.68
1:M:13:VAL:O	1:M:17:ASN:ND2	2.24	0.68
1:e:396:THR:O	1:q:399:SER:OG	2.11	0.68
1:r:304:PHE:HA	1:r:323:ALA:HB2	1.75	0.68
1:v:167:LYS:HA	1:v:172:ASP:HB2	1.73	0.68
1:F:303:ALA:HA	1:F:315:ASP:HB3	1.75	0.68
1:G:219:VAL:HG21	1:G:403:TRP:HZ2	1.57	0.68
1:I:93:ARG:HH21	1:r:151:ALA:HB1	1.58	0.68
1:J:88:HIS:NE2	1:J:122:ASP:OD2	2.27	0.68
1:M:393:ALA:N	1:M:398:ASP:OD2	2.26	0.68
1:b:191:ASP:O	1:b:195:GLN:NE2	2.27	0.68
1:v:88:HIS:NE2	1:v:122:ASP:OD2	2.25	0.68
1:L:175:ASN:ND2	1:L:177:ASN:O	2.26	0.68
1:G:474:LYS:NZ	1:p:153:ASP:O	2.27	0.67
1:s:370:MET:HE2	1:s:379:VAL:HG21	1.75	0.67
1:A:175:ASN:ND2	1:A:177:ASN:O	2.27	0.67
1:C:471:ASP:HB3	1:C:474:LYS:HE2	1.76	0.67
1:H:393:ALA:N	1:H:398:ASP:OD2	2.27	0.67
1:W:549:GLN:HA	1:W:552:GLN:OE1	1.94	0.67
1:I:393:ALA:N	1:I:398:ASP:OD2	2.27	0.67
1:S:16:ASN:ND2	1:a:509:ASN:OD1	2.25	0.67
1:H:319:ALA:HB2	1:u:284:LYS:HZ1	1.59	0.67
1:I:55:THR:O	1:I:59:ARG:HG3	1.95	0.67
1:N:393:ALA:N	1:N:398:ASP:OD2	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:191:ASP:O	1:C:195:GLN:NE2	2.27	0.67
1:G:5:ILE:HD11	1:G:554:VAL:HG11	1.76	0.67
1:J:38:ILE:HG12	1:J:519:GLN:HA	1.77	0.67
1:N:55:THR:O	1:N:59:ARG:HG3	1.95	0.67
1:u:451:LEU:HD22	1:u:462:THR:HA	1.76	0.67
1:K:505:ASN:O	1:K:509:ASN:ND2	2.28	0.67
1:L:55:THR:O	1:L:59:ARG:HG3	1.95	0.67
1:h:471:ASP:HB3	1:h:474:LYS:HE2	1.77	0.67
1:F:90:GLN:NE2	1:o:52:ASN:OD1	2.28	0.67
1:L:393:ALA:N	1:L:398:ASP:OD2	2.27	0.67
1:W:5:ILE:HG12	1:e:523:TYR:HE1	1.59	0.67
1:n:441:GLN:HG2	1:n:445:ALA:HB3	1.77	0.67
1:e:68:ALA:O	1:e:72:ILE:HD12	1.95	0.67
1:A:113:GLN:HE21	1:A:176:VAL:H	1.40	0.67
1:I:38:ILE:HG12	1:I:519:GLN:HA	1.77	0.67
1:O:304:PHE:HB3	1:O:321:THR:HB	1.77	0.67
1:Y:5:ILE:HG12	1:g:523:TYR:HE2	1.60	0.67
1:c:22:GLN:OE1	1:o:2:ALA:N	2.28	0.67
1:d:171:LEU:HD22	1:d:174:PHE:HD1	1.58	0.67
1:G:505:ASN:O	1:G:509:ASN:ND2	2.28	0.67
1:N:510:ASN:HD22	1:s:77:THR:HA	1.60	0.67
1:m:39:ASN:C	1:m:39:ASN:ND2	2.53	0.67
1:J:7:THR:HG1	1:R:516:SER:HG	1.36	0.66
1:i:36:LEU:HA	1:i:520:ASP:HA	1.76	0.66
1:n:39:ASN:C	1:n:39:ASN:HD22	2.03	0.66
1:H:125:ARG:NH2	1:T:500:THR:HG22	2.10	0.66
1:I:219:VAL:HG21	1:I:403:TRP:HZ2	1.60	0.66
1:I:304:PHE:HB3	1:I:321:THR:HB	1.77	0.66
1:L:90:GLN:NE2	1:u:52:ASN:OD1	2.25	0.66
1:M:219:VAL:HG21	1:M:403:TRP:HZ2	1.58	0.66
1:N:254:THR:HG22	1:N:362:THR:HB	1.77	0.66
1:Z:549:GLN:HA	1:Z:552:GLN:OE1	1.95	0.66
1:k:78:THR:HG21	1:k:161:LEU:HD12	1.76	0.66
1:k:122:ASP:OD1	1:k:125:ARG:NH2	2.29	0.66
1:H:505:ASN:O	1:H:509:ASN:ND2	2.28	0.66
1:m:222:LYS:HE2	1:m:392:PHE:HE2	1.60	0.66
1:J:153:ASP:H	1:R:473:LEU:HD12	1.59	0.66
1:L:505:ASN:O	1:L:509:ASN:ND2	2.28	0.66
1:M:38:ILE:HG12	1:M:519:GLN:HA	1.77	0.66
1:F:125:ARG:NH2	1:R:500:THR:HG22	2.11	0.66
1:o:451:LEU:HD22	1:o:462:THR:HA	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:175:ASN:ND2	1:H:177:ASN:O	2.29	0.66
1:K:13:VAL:O	1:K:17:ASN:ND2	2.25	0.66
1:O:38:ILE:HG12	1:O:519:GLN:HA	1.76	0.66
1:a:22:GLN:OE1	1:m:2:ALA:N	2.28	0.66
1:Q:177:ASN:OD1	1:Q:178:GLY:N	2.25	0.66
1:d:396:THR:O	1:p:399:SER:OG	2.12	0.66
1:i:74:LEU:HD11	1:i:137:VAL:HG11	1.77	0.66
1:E:93:ARG:HH21	1:n:151:ALA:HB1	1.60	0.66
1:F:523:TYR:HE2	1:o:5:ILE:HG12	1.61	0.66
1:G:90:GLN:NE2	1:p:52:ASN:OD1	2.29	0.66
1:I:105:SER:OG	1:I:108:GLN:OE1	2.13	0.66
1:J:505:ASN:O	1:J:509:ASN:ND2	2.29	0.66
1:J:510:ASN:HD22	1:o:77:THR:HA	1.59	0.66
1:h:36:LEU:HA	1:h:520:ASP:HA	1.78	0.66
1:n:95:LEU:HD12	1:n:112:VAL:HG13	1.77	0.66
1:q:522:ASP:OD1	1:q:525:THR:OG1	2.14	0.66
1:s:471:ASP:HB3	1:s:474:LYS:HB2	1.78	0.66
1:F:133:ASN:HD21	1:R:50:ILE:HD12	1.61	0.66
1:J:5:ILE:HD11	1:J:554:VAL:HG11	1.78	0.66
1:K:93:ARG:HH21	1:t:151:ALA:HB1	1.61	0.66
1:P:138:LEU:HD11	1:P:164:ILE:HB	1.78	0.66
1:U:386:THR:H	1:U:405:ASP:HB2	1.61	0.66
1:d:7:THR:OG1	1:l:516:SER:OG	2.13	0.66
1:g:68:ALA:O	1:g:72:ILE:HD12	1.95	0.66
1:H:90:GLN:NE2	1:q:52:ASN:OD1	2.26	0.65
1:M:90:GLN:NE2	1:v:52:ASN:OD1	2.27	0.65
1:N:219:VAL:HG21	1:N:403:TRP:HZ2	1.60	0.65
1:f:68:ALA:O	1:f:72:ILE:HD12	1.96	0.65
1:j:13:VAL:O	1:j:17:ASN:ND2	2.29	0.65
1:l:13:VAL:O	1:l:17:ASN:ND2	2.29	0.65
1:D:13:VAL:O	1:D:17:ASN:ND2	2.30	0.65
1:E:523:TYR:CE2	1:n:5:ILE:HG12	2.30	0.65
1:J:113:GLN:HE21	1:J:176:VAL:H	1.43	0.65
1:c:314:ASN:HD22	1:c:314:ASN:C	2.04	0.65
1:f:74:LEU:HD11	1:f:137:VAL:HG11	1.76	0.65
1:j:36:LEU:HA	1:j:520:ASP:HA	1.77	0.65
1:j:171:LEU:HD22	1:j:174:PHE:HD1	1.60	0.65
1:n:55:THR:HG22	1:n:515:ARG:HH11	1.61	0.65
1:A:304:PHE:HB3	1:A:321:THR:HB	1.77	0.65
1:A:505:ASN:O	1:A:509:ASN:ND2	2.29	0.65
1:F:113:GLN:HE21	1:F:176:VAL:H	1.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:183:GLN:HA	1:F:463:THR:HA	1.78	0.65
1:N:38:ILE:HG12	1:N:519:GLN:HA	1.78	0.65
1:O:219:VAL:HG21	1:O:403:TRP:HZ2	1.60	0.65
1:p:522:ASP:OD1	1:p:525:THR:OG1	2.14	0.65
1:s:195:GLN:HE22	1:s:458:LEU:HG	1.60	0.65
1:u:522:ASP:OD1	1:u:525:THR:OG1	2.13	0.65
1:E:416:PHE:N	1:E:419:SER:O	2.30	0.65
1:F:298:ILE:HG22	1:F:303:ALA:HB2	1.79	0.65
1:J:13:VAL:O	1:J:17:ASN:ND2	2.25	0.65
1:K:38:ILE:HG12	1:K:519:GLN:HA	1.78	0.65
1:c:36:LEU:HA	1:c:520:ASP:HA	1.77	0.65
1:f:64:ALA:HB1	1:f:150:GLY:H	1.61	0.65
1:q:471:ASP:HB3	1:q:474:LYS:HB2	1.78	0.65
1:v:522:ASP:OD1	1:v:525:THR:OG1	2.14	0.65
1:C:523:TYR:HE2	1:R:5:ILE:HG12	1.61	0.65
1:p:195:GLN:HE22	1:p:458:LEU:HG	1.62	0.65
1:G:13:VAL:O	1:G:17:ASN:ND2	2.27	0.65
1:G:38:ILE:HG12	1:G:519:GLN:HA	1.77	0.65
1:G:133:ASN:HD21	1:S:50:ILE:HD12	1.62	0.65
1:H:38:ILE:HG12	1:H:519:GLN:HA	1.78	0.65
1:I:471:ASP:HB3	1:I:474:LYS:HB2	1.78	0.65
1:X:471:ASP:HB3	1:X:474:LYS:HG2	1.77	0.65
1:h:64:ALA:HB1	1:h:150:GLY:H	1.62	0.65
1:s:441:GLN:HG2	1:s:445:ALA:HB3	1.79	0.65
1:I:505:ASN:O	1:I:509:ASN:ND2	2.30	0.65
1:J:227:ASN:O	1:J:239:TYR:N	2.28	0.65
1:O:503:ASN:HB2	1:t:84:GLU:HG2	1.79	0.65
1:k:36:LEU:HA	1:k:520:ASP:HA	1.79	0.65
1:l:222:LYS:HE2	1:l:392:PHE:HE2	1.61	0.65
1:C:495:ASN:ND2	1:R:42:LYS:O	2.23	0.65
1:D:355:LEU:HD12	1:D:360:VAL:HA	1.78	0.65
1:H:93:ARG:HH21	1:q:151:ALA:HB1	1.61	0.65
1:H:510:ASN:HD22	1:m:77:THR:HA	1.60	0.65
1:J:133:ASN:HD21	1:V:50:ILE:HD12	1.61	0.65
1:K:471:ASP:HB3	1:K:474:LYS:HB2	1.78	0.65
1:N:118:GLN:HG2	1:Z:496:ARG:HD3	1.79	0.65
1:O:167:LYS:N	1:O:172:ASP:OD2	2.29	0.65
1:Z:403:TRP:CD1	1:Z:408:GLY:HA2	2.32	0.65
1:o:195:GLN:HE22	1:o:458:LEU:HG	1.62	0.65
1:q:13:VAL:O	1:q:17:ASN:ND2	2.30	0.65
1:D:304:PHE:HA	1:D:323:ALA:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:113:GLN:HE21	1:H:176:VAL:H	1.43	0.65
1:L:93:ARG:HH21	1:u:151:ALA:HB1	1.62	0.65
1:Y:157:ILE:HG23	1:Y:496:ARG:HH21	1.61	0.65
1:G:227:ASN:O	1:G:239:TYR:N	2.30	0.65
1:K:503:ASN:HB2	1:p:84:GLU:HG2	1.77	0.65
1:J:125:ARG:NH2	1:V:500:THR:HG22	2.11	0.64
1:K:5:ILE:HD11	1:K:554:VAL:HG11	1.78	0.64
1:s:451:LEU:HD22	1:s:462:THR:HA	1.78	0.64
1:C:288:PHE:HE2	1:C:313:THR:HB	1.63	0.64
1:H:219:VAL:HG21	1:H:403:TRP:HZ2	1.61	0.64
1:O:5:ILE:HD11	1:O:554:VAL:HG11	1.80	0.64
1:O:333:GLY:H	1:O:337:ASN:HB2	1.62	0.64
1:W:157:ILE:HG12	1:W:496:ARG:HH22	1.62	0.64
1:p:55:THR:HG22	1:p:515:ARG:HH11	1.62	0.64
1:q:451:LEU:HD22	1:q:462:THR:HA	1.78	0.64
1:E:304:PHE:HB3	1:E:321:THR:HB	1.79	0.64
1:N:5:ILE:HD11	1:N:554:VAL:HG11	1.80	0.64
1:O:390:VAL:HG23	1:O:403:TRP:HH2	1.62	0.64
1:r:55:THR:HG22	1:r:515:ARG:HH11	1.61	0.64
1:F:84:GLU:HG2	1:R:503:ASN:HB2	1.79	0.64
1:K:113:GLN:HE21	1:K:176:VAL:H	1.44	0.64
1:M:93:ARG:HH21	1:v:151:ALA:HB1	1.62	0.64
1:v:13:VAL:O	1:v:17:ASN:ND2	2.31	0.64
1:L:38:ILE:HG12	1:L:519:GLN:HA	1.78	0.64
1:L:523:TYR:CE2	1:u:5:ILE:HG12	2.33	0.64
1:R:74:LEU:HD22	1:R:159:LEU:HD21	1.80	0.64
1:R:471:ASP:HB3	1:R:474:LYS:HG2	1.79	0.64
1:Y:22:GLN:HB2	1:Y:537:GLN:HE22	1.63	0.64
1:b:31:ARG:NH2	1:b:43:ASP:OD2	2.30	0.64
1:g:31:ARG:NH2	1:g:43:ASP:OD2	2.31	0.64
1:o:222:LYS:HE2	1:o:392:PHE:HE2	1.62	0.64
1:u:13:VAL:O	1:u:17:ASN:ND2	2.31	0.64
1:B:72:ILE:HG13	1:B:494:GLN:HG3	1.80	0.64
1:D:55:THR:HG22	1:D:515:ARG:HH11	1.62	0.64
1:E:105:SER:OG	1:E:108:GLN:OE1	2.13	0.64
1:E:505:ASN:O	1:E:509:ASN:ND2	2.31	0.64
1:H:5:ILE:HD11	1:H:554:VAL:HG11	1.80	0.64
1:O:13:VAL:O	1:O:17:ASN:ND2	2.26	0.64
1:b:278:TYR:HD1	1:b:344:GLY:HA3	1.60	0.64
1:d:36:LEU:HA	1:d:520:ASP:HA	1.79	0.64
1:l:441:GLN:HG2	1:l:445:ALA:HB3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:451:LEU:HD22	1:p:462:THR:HA	1.79	0.64
1:A:471:ASP:HB3	1:A:474:LYS:HB2	1.79	0.64
1:G:84:GLU:HG2	1:S:503:ASN:HB2	1.79	0.64
1:W:42:LYS:O	1:e:495:ASN:ND2	2.23	0.64
1:b:36:LEU:HA	1:b:520:ASP:HA	1.80	0.64
1:m:195:GLN:HE22	1:m:458:LEU:HG	1.63	0.64
1:t:55:THR:HG22	1:t:515:ARG:HH11	1.63	0.64
1:F:105:SER:OG	1:F:108:GLN:OE1	2.13	0.64
1:G:510:ASN:HD22	1:l:77:THR:HA	1.63	0.64
1:J:219:VAL:HG21	1:J:403:TRP:CZ2	2.32	0.64
1:N:13:VAL:O	1:N:17:ASN:ND2	2.25	0.64
1:b:314:ASN:C	1:b:314:ASN:HD22	2.05	0.64
1:b:365:ASP:OD1	1:b:366:VAL:N	2.30	0.64
1:v:227:ASN:O	1:v:239:TYR:N	2.31	0.64
1:v:451:LEU:HD22	1:v:462:THR:HA	1.79	0.64
1:F:38:ILE:HG12	1:F:519:GLN:HA	1.80	0.64
1:H:183:GLN:HA	1:H:463:THR:HA	1.80	0.64
1:I:219:VAL:HG21	1:I:403:TRP:CZ2	2.33	0.64
1:M:7:THR:HG1	1:U:516:SER:HG	1.30	0.64
1:O:7:THR:HG1	1:W:516:SER:HG	1.38	0.64
1:I:90:GLN:NE2	1:r:52:ASN:OD1	2.29	0.63
1:M:125:ARG:NH2	1:Y:500:THR:HG22	2.13	0.63
1:O:304:PHE:HA	1:O:323:ALA:HB2	1.80	0.63
1:c:31:ARG:NH2	1:c:43:ASP:OD2	2.30	0.63
1:g:461:GLU:HG3	1:g:463:THR:H	1.63	0.63
1:E:471:ASP:HB3	1:E:474:LYS:HB2	1.79	0.63
1:K:133:ASN:HD21	1:W:50:ILE:HD12	1.63	0.63
1:D:195:GLN:HE22	1:D:458:LEU:HG	1.62	0.63
1:J:93:ARG:HH21	1:s:151:ALA:HB1	1.62	0.63
1:L:254:THR:HG22	1:L:362:THR:HB	1.79	0.63
1:a:36:LEU:HA	1:a:520:ASP:HA	1.80	0.63
1:k:175:ASN:ND2	1:k:177:ASN:O	2.27	0.63
1:l:304:PHE:HB3	1:l:321:THR:HB	1.80	0.63
1:H:227:ASN:O	1:H:239:TYR:N	2.28	0.63
1:H:471:ASP:HB3	1:H:474:LYS:HB2	1.79	0.63
1:N:183:GLN:HA	1:N:463:THR:HA	1.81	0.63
1:S:42:LYS:O	1:a:495:ASN:ND2	2.24	0.63
1:T:549:GLN:HA	1:T:552:GLN:OE1	1.99	0.63
1:v:506:ASN:O	1:v:510:ASN:ND2	2.32	0.63
1:G:113:GLN:HE21	1:G:176:VAL:H	1.44	0.63
1:A:319:ALA:HB2	1:q:284:LYS:HZ1	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:64:ALA:HB1	1:C:150:GLY:H	1.64	0.63
1:F:319:ALA:HB2	1:s:284:LYS:HZ1	1.63	0.63
1:F:520:ASP:OD1	1:o:6:ASN:HB2	1.98	0.63
1:G:219:VAL:HG21	1:G:403:TRP:CZ2	2.33	0.63
1:I:510:ASN:HD22	1:n:77:THR:HA	1.63	0.63
1:g:5:ILE:HG12	1:o:523:TYR:HE2	1.64	0.63
1:r:451:LEU:HD22	1:r:462:THR:HA	1.79	0.63
1:C:461:GLU:OE1	1:C:463:THR:OG1	2.11	0.63
1:C:474:LYS:NZ	1:R:153:ASP:O	2.32	0.63
1:L:227:ASN:O	1:L:239:TYR:N	2.27	0.63
1:U:157:ILE:HG12	1:U:496:ARG:HH21	1.62	0.63
1:t:355:LEU:HD12	1:t:360:VAL:HA	1.80	0.63
1:G:183:GLN:HA	1:G:463:THR:HA	1.81	0.63
1:H:227:ASN:HB3	1:H:239:TYR:HB2	1.79	0.63
1:I:84:GLU:HG2	1:U:503:ASN:HB2	1.80	0.63
1:a:314:ASN:HD22	1:a:314:ASN:C	2.05	0.63
1:g:36:LEU:HA	1:g:520:ASP:HA	1.79	0.63
1:l:411:THR:O	1:l:414:GLN:NE2	2.32	0.63
1:n:451:LEU:HD22	1:n:462:THR:HA	1.80	0.63
1:p:13:VAL:O	1:p:17:ASN:ND2	2.32	0.63
1:t:451:LEU:HD22	1:t:462:THR:HA	1.81	0.63
1:D:77:THR:HA	1:F:510:ASN:HD22	1.64	0.63
1:E:167:LYS:N	1:E:172:ASP:OD2	2.27	0.63
1:G:118:GLN:HG3	1:S:496:ARG:HD3	1.81	0.63
1:I:113:GLN:HE21	1:I:176:VAL:H	1.44	0.63
1:I:254:THR:HG22	1:I:362:THR:HB	1.81	0.63
1:K:510:ASN:HD22	1:p:77:THR:HA	1.63	0.63
1:L:510:ASN:HD22	1:q:77:THR:HA	1.63	0.63
1:N:538:GLN:HB2	1:k:555:LEU:HD11	1.80	0.63
1:P:404:VAL:HB	1:P:407:LYS:HG2	1.80	0.63
1:Y:301:ASN:ND2	1:c:287:SER:O	2.32	0.63
1:c:74:LEU:HD11	1:c:137:VAL:HG11	1.81	0.63
1:e:36:LEU:HA	1:e:520:ASP:HA	1.80	0.63
1:m:393:ALA:HB3	1:m:398:ASP:HA	1.81	0.63
1:D:227:ASN:O	1:D:239:TYR:N	2.29	0.62
1:F:13:VAL:O	1:F:17:ASN:ND2	2.25	0.62
1:F:333:GLY:H	1:F:337:ASN:HB2	1.62	0.62
1:W:187:ALA:HB3	1:W:450:VAL:HG13	1.81	0.62
1:F:227:ASN:O	1:F:239:TYR:N	2.28	0.62
1:G:304:PHE:HA	1:G:323:ALA:HB2	1.81	0.62
1:I:227:ASN:O	1:I:239:TYR:N	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:55:THR:O	1:K:59:ARG:HG3	1.99	0.62
1:L:13:VAL:O	1:L:17:ASN:ND2	2.25	0.62
1:R:278:TYR:HD1	1:R:344:GLY:HA3	1.64	0.62
1:T:42:LYS:O	1:b:495:ASN:ND2	2.28	0.62
1:e:64:ALA:HB1	1:e:150:GLY:H	1.64	0.62
1:m:441:GLN:HG2	1:m:445:ALA:HB3	1.81	0.62
1:n:76:GLN:HG3	1:n:494:GLN:HE22	1.62	0.62
1:n:304:PHE:HA	1:n:323:ALA:HB2	1.80	0.62
1:s:13:VAL:O	1:s:17:ASN:ND2	2.32	0.62
1:A:183:GLN:HA	1:A:463:THR:HA	1.82	0.62
1:G:254:THR:HG22	1:G:362:THR:HB	1.82	0.62
1:H:105:SER:OG	1:H:108:GLN:OE1	2.14	0.62
1:N:219:VAL:HG21	1:N:403:TRP:CZ2	2.33	0.62
1:a:64:ALA:HB1	1:a:150:GLY:H	1.64	0.62
1:d:22:GLN:NE2	1:p:2:ALA:O	2.30	0.62
1:e:159:LEU:HB3	1:e:161:LEU:HD22	1.81	0.62
1:n:13:VAL:O	1:n:17:ASN:ND2	2.33	0.62
1:t:304:PHE:HB3	1:t:321:THR:HB	1.81	0.62
1:u:441:GLN:HB2	1:u:448:ALA:H	1.64	0.62
1:L:6:ASN:ND2	1:T:35:GLY:O	2.33	0.62
1:L:219:VAL:HG21	1:L:403:TRP:CZ2	2.34	0.62
1:N:125:ARG:NH2	1:Z:500:THR:HG22	2.14	0.62
1:j:42:LYS:O	1:r:495:ASN:ND2	2.29	0.62
1:l:185:ARG:NH1	1:l:191:ASP:OD2	2.32	0.62
1:l:333:GLY:H	1:l:337:ASN:HB2	1.64	0.62
1:l:416:PHE:N	1:l:419:SER:O	2.33	0.62
1:r:411:THR:O	1:r:414:GLN:NE2	2.33	0.62
1:t:471:ASP:HB3	1:t:474:LYS:HB2	1.80	0.62
1:u:317:SER:HA	1:u:321:THR:HG21	1.81	0.62
1:D:522:ASP:OD1	1:D:525:THR:OG1	2.16	0.62
1:I:520:ASP:OD2	1:r:6:ASN:HB2	1.99	0.62
1:M:505:ASN:O	1:M:509:ASN:ND2	2.32	0.62
1:O:227:ASN:O	1:O:239:TYR:N	2.27	0.62
1:c:30:GLU:OE2	1:c:39:ASN:ND2	2.32	0.62
1:c:164:ILE:HG23	1:c:169:LEU:HD21	1.81	0.62
1:j:78:THR:HG21	1:j:161:LEU:HD12	1.80	0.62
1:m:416:PHE:N	1:m:419:SER:O	2.32	0.62
1:q:55:THR:HG22	1:q:515:ARG:HH11	1.64	0.62
1:r:13:VAL:O	1:r:17:ASN:ND2	2.32	0.62
1:u:281:SER:HA	1:u:286:ALA:HB3	1.81	0.62
1:C:36:LEU:HA	1:C:520:ASP:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:206:LYS:HE3	1:H:429:VAL:HG22	1.82	0.62
1:d:64:ALA:HB1	1:d:150:GLY:H	1.64	0.62
1:f:164:ILE:HG23	1:f:169:LEU:HD21	1.80	0.62
1:m:13:VAL:O	1:m:17:ASN:ND2	2.32	0.62
1:B:278:TYR:HD1	1:B:344:GLY:HA3	1.65	0.62
1:D:93:ARG:HH21	1:c:151:ALA:HB1	1.65	0.62
1:G:93:ARG:HH21	1:p:151:ALA:HB1	1.64	0.62
1:I:333:GLY:H	1:I:337:ASN:HB2	1.63	0.62
1:i:42:LYS:O	1:q:495:ASN:ND2	2.29	0.62
1:s:185:ARG:NH1	1:s:191:ASP:OD2	2.32	0.62
1:s:317:SER:HA	1:s:321:THR:HG21	1.82	0.62
1:s:441:GLN:HB3	1:s:448:ALA:H	1.63	0.62
1:F:125:ARG:HH21	1:R:500:THR:HG22	1.65	0.62
1:G:333:GLY:H	1:G:337:ASN:HB2	1.64	0.62
1:I:312:THR:O	1:I:314:ASN:ND2	2.33	0.62
1:g:138:LEU:HD11	1:g:164:ILE:HD12	1.82	0.62
1:g:365:ASP:OD1	1:g:366:VAL:N	2.33	0.62
1:s:506:ASN:O	1:s:510:ASN:ND2	2.32	0.62
1:u:506:ASN:O	1:u:510:ASN:ND2	2.33	0.62
1:v:471:ASP:HB3	1:v:474:LYS:HB2	1.82	0.62
1:A:38:ILE:HG12	1:A:519:GLN:HA	1.82	0.62
1:F:317:SER:HG	1:s:284:LYS:H	1.46	0.62
1:I:13:VAL:O	1:I:17:ASN:ND2	2.25	0.62
1:K:523:TYR:HD2	1:t:554:VAL:HG11	1.65	0.62
1:e:282:THR:OG1	1:e:311:LEU:O	2.18	0.62
1:f:99:ALA:HB2	1:f:112:VAL:HG11	1.81	0.62
1:j:64:ALA:HB1	1:j:150:GLY:H	1.64	0.62
1:t:281:SER:HA	1:t:286:ALA:HB3	1.82	0.62
1:A:93:ARG:NH1	1:A:477:ASP:OD1	2.33	0.61
1:E:110:ASP:HA	1:E:177:ASN:HD22	1.65	0.61
1:I:93:ARG:NH1	1:I:477:ASP:OD1	2.33	0.61
1:M:230:ALA:HB2	1:M:236:THR:HG23	1.82	0.61
1:V:311:LEU:HB3	1:V:331:SER:HB2	1.82	0.61
1:e:365:ASP:OD1	1:e:366:VAL:N	2.33	0.61
1:h:31:ARG:NH2	1:h:43:ASP:OD2	2.32	0.61
1:j:365:ASP:OD1	1:j:366:VAL:N	2.33	0.61
1:A:93:ARG:HH21	1:m:151:ALA:HB1	1.64	0.61
1:E:55:THR:O	1:E:59:ARG:HG3	2.01	0.61
1:U:189:VAL:HG23	1:U:205:TYR:HE2	1.64	0.61
1:Z:311:LEU:HB3	1:Z:331:SER:HB2	1.82	0.61
1:M:510:ASN:HD22	1:r:77:THR:HA	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:195:GLN:HE22	1:Q:457:LYS:HA	1.65	0.61
1:V:74:LEU:HD22	1:V:159:LEU:HD21	1.82	0.61
1:X:183:GLN:HA	1:X:463:THR:HA	1.80	0.61
1:g:64:ALA:HB1	1:g:150:GLY:H	1.65	0.61
1:l:393:ALA:HB3	1:l:398:ASP:HA	1.82	0.61
1:m:506:ASN:O	1:m:510:ASN:ND2	2.33	0.61
1:t:506:ASN:O	1:t:510:ASN:ND2	2.33	0.61
1:C:37:ARG:NH1	1:C:44:ASP:OD2	2.30	0.61
1:C:175:ASN:ND2	1:C:177:ASN:O	2.30	0.61
1:C:438:THR:HG23	1:C:449:LYS:HE3	1.82	0.61
1:F:227:ASN:OD1	1:F:228:THR:N	2.33	0.61
1:G:523:TYR:HD2	1:p:554:VAL:HG11	1.64	0.61
1:N:333:GLY:H	1:N:337:ASN:HB2	1.65	0.61
1:Q:395:ALA:HA	1:Q:398:ASP:HB2	1.82	0.61
1:f:42:LYS:O	1:n:495:ASN:ND2	2.29	0.61
1:h:41:ALA:N	1:p:79:GLU:OE2	2.33	0.61
1:u:227:ASN:O	1:u:239:TYR:N	2.33	0.61
1:H:110:ASP:HA	1:H:177:ASN:HD22	1.65	0.61
1:H:254:THR:HG22	1:H:362:THR:HB	1.82	0.61
1:O:138:LEU:HD11	1:O:164:ILE:HD12	1.81	0.61
1:V:386:THR:H	1:V:405:ASP:HB2	1.64	0.61
1:Z:159:LEU:HD23	1:Z:161:LEU:HD22	1.81	0.61
1:l:451:LEU:HD22	1:l:462:THR:HA	1.81	0.61
1:p:39:ASN:C	1:p:39:ASN:ND2	2.57	0.61
1:p:227:ASN:O	1:p:239:TYR:N	2.33	0.61
1:t:195:GLN:HE22	1:t:458:LEU:HG	1.64	0.61
1:v:148:GLN:NE2	1:v:150:GLY:O	2.33	0.61
1:G:50:ILE:HD12	1:l:133:ASN:HD21	1.65	0.61
1:H:219:VAL:HG21	1:H:403:TRP:CZ2	2.35	0.61
1:N:304:PHE:HA	1:N:323:ALA:HB2	1.81	0.61
1:P:195:GLN:HE22	1:P:457:LYS:HA	1.65	0.61
1:W:105:SER:OG	1:W:108:GLN:OE1	2.17	0.61
1:X:105:SER:OG	1:X:108:GLN:OE1	2.16	0.61
1:h:365:ASP:OD1	1:h:366:VAL:N	2.33	0.61
1:p:506:ASN:O	1:p:510:ASN:ND2	2.33	0.61
1:r:416:PHE:N	1:r:419:SER:O	2.34	0.61
1:B:195:GLN:HE22	1:B:457:LYS:HA	1.65	0.61
1:L:183:GLN:HA	1:L:463:THR:HA	1.82	0.61
1:N:113:GLN:HE21	1:N:176:VAL:H	1.49	0.61
1:d:31:ARG:NH2	1:d:43:ASP:OD2	2.33	0.61
1:m:451:LEU:HD22	1:m:462:THR:HA	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:227:ASN:O	1:q:239:TYR:N	2.30	0.61
1:A:133:ASN:HD21	1:P:50:ILE:HD12	1.64	0.61
1:E:118:GLN:HG3	1:Q:496:ARG:HD3	1.81	0.61
1:M:183:GLN:HA	1:M:463:THR:HA	1.82	0.61
1:c:365:ASP:OD1	1:c:366:VAL:N	2.34	0.61
1:l:55:THR:HG22	1:l:515:ARG:HH11	1.65	0.61
1:l:471:ASP:HB3	1:l:474:LYS:HB2	1.83	0.61
1:C:278:TYR:HB2	1:C:290:VAL:HG23	1.83	0.61
1:L:304:PHE:HA	1:L:323:ALA:HB2	1.81	0.61
1:M:219:VAL:HG21	1:M:403:TRP:CZ2	2.36	0.61
1:N:392:PHE:N	1:N:398:ASP:OD2	2.34	0.61
1:T:449:LYS:HE3	1:T:451:LEU:HD11	1.82	0.61
1:f:365:ASP:OD1	1:f:366:VAL:N	2.34	0.61
1:g:74:LEU:HD11	1:g:137:VAL:HG11	1.83	0.61
1:l:352:ALA:HB3	1:l:362:THR:HG23	1.83	0.61
1:n:506:ASN:O	1:n:510:ASN:ND2	2.34	0.61
1:o:227:ASN:O	1:o:239:TYR:N	2.32	0.61
1:o:506:ASN:O	1:o:510:ASN:ND2	2.34	0.61
1:t:13:VAL:O	1:t:17:ASN:ND2	2.34	0.61
1:u:55:THR:HG22	1:u:515:ARG:HH11	1.65	0.61
1:u:195:GLN:HE22	1:u:458:LEU:HG	1.66	0.61
1:K:304:PHE:HA	1:K:323:ALA:HB2	1.83	0.61
1:K:392:PHE:N	1:K:398:ASP:OD2	2.34	0.61
1:L:290:VAL:HG11	1:L:296:ILE:HG23	1.83	0.61
1:O:113:GLN:HE21	1:O:176:VAL:H	1.47	0.61
1:Q:93:ARG:NH1	1:Q:477:ASP:OD1	2.33	0.61
1:Y:449:LYS:HE3	1:Y:451:LEU:HD11	1.83	0.61
1:p:148:GLN:NE2	1:p:150:GLY:O	2.34	0.61
1:p:416:PHE:N	1:p:419:SER:O	2.34	0.61
1:q:506:ASN:O	1:q:510:ASN:ND2	2.34	0.61
1:B:516:SER:HG	1:G:7:THR:HG1	1.35	0.60
1:E:113:GLN:HE21	1:E:176:VAL:H	1.46	0.60
1:K:416:PHE:N	1:K:419:SER:O	2.34	0.60
1:K:441:GLN:HE21	1:K:448:ALA:H	1.49	0.60
1:O:192:VAL:HG12	1:O:458:LEU:HD11	1.83	0.60
1:a:365:ASP:OD1	1:a:366:VAL:N	2.34	0.60
1:b:13:VAL:O	1:b:17:ASN:ND2	2.34	0.60
1:d:383:SER:OG	1:d:405:ASP:O	2.19	0.60
1:j:31:ARG:NH2	1:j:43:ASP:OD2	2.34	0.60
1:n:48:MET:O	1:n:48:MET:HE3	2.01	0.60
1:o:55:THR:HG22	1:o:515:ARG:HH11	1.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:281:SER:HA	1:r:286:ALA:HB3	1.83	0.60
1:A:227:ASN:O	1:A:239:TYR:N	2.27	0.60
1:E:333:GLY:H	1:E:337:ASN:HB2	1.64	0.60
1:F:521:ALA:HB1	1:F:526:GLU:HG3	1.82	0.60
1:J:402:THR:O	1:J:410:LEU:HD13	2.01	0.60
1:L:133:ASN:HD21	1:X:50:ILE:HD12	1.66	0.60
1:M:113:GLN:HE21	1:M:176:VAL:H	1.47	0.60
1:R:93:ARG:NH1	1:R:477:ASP:OD1	2.34	0.60
1:U:105:SER:OG	1:U:108:GLN:OE1	2.18	0.60
1:U:187:ALA:HB3	1:U:450:VAL:HG13	1.83	0.60
1:b:64:ALA:HB1	1:b:150:GLY:H	1.65	0.60
1:l:441:GLN:HB3	1:l:448:ALA:H	1.66	0.60
1:m:55:THR:HG22	1:m:515:ARG:HH11	1.66	0.60
1:u:307:ALA:O	1:u:311:LEU:N	2.23	0.60
1:D:79:GLU:OE2	1:c:41:ALA:N	2.33	0.60
1:F:254:THR:HG22	1:F:362:THR:HB	1.83	0.60
1:H:93:ARG:NH1	1:H:477:ASP:OD1	2.34	0.60
1:I:303:ALA:HA	1:I:315:ASP:HB3	1.83	0.60
1:J:325:LEU:HD23	1:J:329:LEU:HD23	1.83	0.60
1:N:290:VAL:HG11	1:N:296:ILE:HG23	1.83	0.60
1:N:416:PHE:N	1:N:419:SER:O	2.33	0.60
1:j:314:ASN:C	1:j:314:ASN:HD22	2.08	0.60
1:t:393:ALA:HB3	1:t:398:ASP:HA	1.84	0.60
1:v:317:SER:HA	1:v:321:THR:HG21	1.83	0.60
1:E:219:VAL:HG21	1:E:403:TRP:HZ2	1.67	0.60
1:J:55:THR:O	1:J:59:ARG:HG3	2.01	0.60
1:J:183:GLN:HA	1:J:463:THR:HA	1.83	0.60
1:L:416:PHE:N	1:L:419:SER:O	2.34	0.60
1:M:290:VAL:HG11	1:M:296:ILE:HG23	1.82	0.60
1:M:332:VAL:HG11	1:M:342:ILE:HD11	1.82	0.60
1:f:36:LEU:HA	1:f:520:ASP:HA	1.83	0.60
1:p:544:LEU:O	1:p:548:ASN:ND2	2.34	0.60
1:v:393:ALA:HB3	1:v:398:ASP:HA	1.84	0.60
1:A:227:ASN:OD1	1:A:228:THR:N	2.35	0.60
1:D:506:ASN:O	1:D:510:ASN:ND2	2.34	0.60
1:E:38:ILE:HG12	1:E:519:GLN:HA	1.83	0.60
1:F:110:ASP:HA	1:F:177:ASN:HD22	1.65	0.60
1:H:304:PHE:HA	1:H:323:ALA:HB2	1.83	0.60
1:I:523:TYR:HD2	1:r:554:VAL:HG11	1.65	0.60
1:J:332:VAL:HG11	1:J:342:ILE:HD11	1.84	0.60
1:N:105:SER:OG	1:N:108:GLN:OE1	2.14	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:183:GLN:HA	1:U:463:THR:HA	1.82	0.60
1:X:92:ILE:HG22	1:X:476:LEU:HD11	1.84	0.60
1:c:13:VAL:O	1:c:17:ASN:ND2	2.34	0.60
1:c:64:ALA:HB1	1:c:150:GLY:H	1.66	0.60
1:e:13:VAL:O	1:e:17:ASN:ND2	2.34	0.60
1:h:282:THR:OG1	1:h:311:LEU:O	2.19	0.60
1:i:153:ASP:H	1:q:473:LEU:HD12	1.67	0.60
1:i:396:THR:HG21	1:u:420:TYR:HD2	1.67	0.60
1:r:506:ASN:O	1:r:510:ASN:ND2	2.34	0.60
1:E:93:ARG:NH1	1:E:477:ASP:OD1	2.35	0.60
1:G:312:THR:O	1:G:314:ASN:ND2	2.35	0.60
1:I:500:THR:HG22	1:n:125:ARG:HH21	1.67	0.60
1:Q:74:LEU:HD22	1:Q:159:LEU:HD21	1.82	0.60
1:U:195:GLN:HE22	1:U:457:LYS:HA	1.66	0.60
1:X:278:TYR:HD1	1:X:344:GLY:HA3	1.65	0.60
1:X:311:LEU:HB3	1:X:331:SER:HB2	1.83	0.60
1:i:31:ARG:NH2	1:i:43:ASP:OD2	2.35	0.60
1:l:304:PHE:HA	1:l:323:ALA:HB2	1.83	0.60
1:u:333:GLY:H	1:u:337:ASN:HB2	1.66	0.60
1:A:312:THR:O	1:A:314:ASN:ND2	2.33	0.60
1:H:413:ILE:HD12	1:T:396:THR:HG22	1.83	0.60
1:J:392:PHE:N	1:J:398:ASP:OD2	2.35	0.60
1:S:105:SER:OG	1:S:108:GLN:OE1	2.17	0.60
1:W:74:LEU:HD22	1:W:159:LEU:HD21	1.82	0.60
1:i:365:ASP:OD1	1:i:366:VAL:N	2.34	0.60
1:l:506:ASN:O	1:l:510:ASN:ND2	2.35	0.60
1:M:227:ASN:O	1:M:239:TYR:N	2.29	0.60
1:O:183:GLN:HA	1:O:463:THR:HA	1.84	0.60
1:X:138:LEU:HD11	1:X:164:ILE:HB	1.84	0.60
1:e:151:ALA:HB1	1:m:93:ARG:HH21	1.64	0.60
1:e:164:ILE:HG23	1:e:169:LEU:HD21	1.83	0.60
1:i:317:SER:OG	1:i:321:THR:OG1	2.19	0.60
1:I:183:GLN:HA	1:I:463:THR:HA	1.83	0.60
1:R:403:TRP:CD1	1:R:408:GLY:HA2	2.37	0.60
1:Y:30:GLU:HG2	1:k:13:VAL:HG11	1.84	0.60
1:c:99:ALA:HB2	1:c:112:VAL:HG11	1.84	0.60
1:m:169:LEU:HD23	1:m:479:ALA:HB1	1.82	0.60
1:o:148:GLN:NE2	1:o:150:GLY:O	2.35	0.60
1:o:304:PHE:HB3	1:o:321:THR:HB	1.83	0.60
1:t:522:ASP:OD1	1:t:525:THR:OG1	2.19	0.60
1:B:138:LEU:HD11	1:B:164:ILE:HB	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:157:ILE:HG12	1:B:496:ARG:HH21	1.66	0.60
1:C:365:ASP:OD1	1:C:366:VAL:N	2.34	0.60
1:N:402:THR:O	1:N:410:LEU:HD13	2.01	0.60
1:R:22:GLN:HB2	1:R:537:GLN:HE22	1.67	0.60
1:W:92:ILE:HG22	1:W:476:LEU:HD11	1.84	0.60
1:X:22:GLN:NE2	1:j:2:ALA:O	2.34	0.60
1:g:42:LYS:O	1:o:495:ASN:ND2	2.28	0.60
1:v:195:GLN:HE22	1:v:458:LEU:HG	1.66	0.60
1:A:254:THR:HG22	1:A:362:THR:HB	1.83	0.59
1:M:392:PHE:N	1:M:398:ASP:OD2	2.34	0.59
1:Q:22:GLN:HB2	1:Q:537:GLN:HE22	1.67	0.59
1:T:230:ALA:HB2	1:T:236:THR:HG23	1.84	0.59
1:W:386:THR:H	1:W:405:ASP:HB2	1.67	0.59
1:X:42:LYS:O	1:f:495:ASN:ND2	2.31	0.59
1:X:64:ALA:HB1	1:X:150:GLY:H	1.67	0.59
1:f:282:THR:OG1	1:f:311:LEU:O	2.20	0.59
1:h:99:ALA:HB2	1:h:112:VAL:HG11	1.84	0.59
1:k:151:ALA:HB1	1:s:93:ARG:HH21	1.67	0.59
1:l:197:GLY:N	1:l:205:TYR:OH	2.32	0.59
1:n:304:PHE:HB3	1:n:321:THR:HB	1.84	0.59
1:B:26:GLY:O	1:B:30:GLU:HG3	2.02	0.59
1:E:332:VAL:HG11	1:E:342:ILE:HD11	1.84	0.59
1:K:183:GLN:HA	1:K:463:THR:HA	1.84	0.59
1:M:133:ASN:HD21	1:Y:50:ILE:HD12	1.67	0.59
1:N:36:LEU:HD22	1:N:519:GLN:HG2	1.83	0.59
1:T:105:SER:OG	1:T:108:GLN:OE1	2.17	0.59
1:k:41:ALA:N	1:s:79:GLU:OE2	2.34	0.59
1:F:312:THR:O	1:F:314:ASN:ND2	2.35	0.59
1:O:500:THR:HG22	1:t:125:ARG:HH21	1.67	0.59
1:Q:88:HIS:NE2	1:Q:122:ASP:OD2	2.36	0.59
1:l:39:ASN:C	1:l:39:ASN:ND2	2.60	0.59
1:A:36:LEU:HD22	1:A:519:GLN:HG2	1.83	0.59
1:K:93:ARG:NH1	1:K:477:ASP:OD1	2.36	0.59
1:S:187:ALA:HB3	1:S:450:VAL:HG13	1.84	0.59
1:T:138:LEU:HD11	1:T:164:ILE:HB	1.85	0.59
1:Y:22:GLN:NE2	1:k:2:ALA:O	2.34	0.59
1:k:63:GLN:HB2	1:s:94:GLU:OE2	2.02	0.59
1:t:416:PHE:N	1:t:419:SER:O	2.36	0.59
1:v:352:ALA:HB3	1:v:362:THR:HG23	1.84	0.59
1:v:416:PHE:N	1:v:419:SER:O	2.35	0.59
1:A:416:PHE:N	1:A:419:SER:O	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:421:LYS:NZ	1:A:423:ASN:O	2.28	0.59
1:B:183:GLN:HA	1:B:463:THR:HA	1.85	0.59
1:F:230:ALA:HB2	1:F:236:THR:HG23	1.84	0.59
1:G:110:ASP:OD1	1:G:177:ASN:ND2	2.35	0.59
1:H:416:PHE:N	1:H:419:SER:O	2.35	0.59
1:L:392:PHE:N	1:L:398:ASP:OD2	2.36	0.59
1:Q:92:ILE:HG22	1:Q:476:LEU:HD11	1.85	0.59
1:f:153:ASP:H	1:n:473:LEU:HD12	1.68	0.59
1:i:383:SER:OG	1:i:405:ASP:O	2.20	0.59
1:m:304:PHE:HB3	1:m:321:THR:HB	1.84	0.59
1:r:192:VAL:O	1:r:205:TYR:OH	2.19	0.59
1:D:230:ALA:HB2	1:D:236:THR:HG23	1.84	0.59
1:L:402:THR:O	1:L:410:LEU:HD13	2.03	0.59
1:M:36:LEU:HD22	1:M:519:GLN:HG2	1.85	0.59
1:M:55:THR:O	1:M:59:ARG:HG3	2.02	0.59
1:R:138:LEU:HD11	1:R:164:ILE:HD12	1.84	0.59
1:S:419:SER:OG	1:S:421:LYS:NZ	2.36	0.59
1:d:281:SER:HA	1:d:286:ALA:HB3	1.85	0.59
1:d:365:ASP:OD1	1:d:366:VAL:N	2.35	0.59
1:e:153:ASP:H	1:m:473:LEU:HD12	1.68	0.59
1:f:31:ARG:NH2	1:f:43:ASP:OD2	2.35	0.59
1:i:64:ALA:HB1	1:i:150:GLY:H	1.66	0.59
1:o:393:ALA:HB3	1:o:398:ASP:HA	1.85	0.59
1:q:317:SER:HA	1:q:321:THR:HG21	1.82	0.59
1:u:393:ALA:HB3	1:u:398:ASP:HA	1.84	0.59
1:C:99:ALA:HB2	1:C:112:VAL:HG11	1.83	0.59
1:G:125:ARG:HH21	1:S:500:THR:HG22	1.68	0.59
1:I:91:ARG:NH1	1:I:94:GLU:OE1	2.35	0.59
1:I:500:THR:HG22	1:n:125:ARG:NH2	2.16	0.59
1:J:523:TYR:HA	1:J:526:GLU:OE2	2.02	0.59
1:K:36:LEU:HD22	1:K:519:GLN:HG2	1.85	0.59
1:L:35:GLY:O	1:u:6:ASN:ND2	2.36	0.59
1:W:183:GLN:HA	1:W:463:THR:HA	1.85	0.59
1:a:99:ALA:HB2	1:a:112:VAL:HG11	1.84	0.59
1:d:249:THR:HG22	1:d:366:VAL:HG22	1.85	0.59
1:g:383:SER:OG	1:g:405:ASP:O	2.21	0.59
1:i:41:ALA:N	1:q:79:GLU:OE2	2.36	0.59
1:k:365:ASP:OD1	1:k:366:VAL:N	2.34	0.59
1:r:227:ASN:O	1:r:239:TYR:N	2.35	0.59
1:E:392:PHE:N	1:E:398:ASP:OD2	2.36	0.59
1:G:110:ASP:HA	1:G:177:ASN:HD22	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:281:SER:HA	1:G:286:ALA:HB3	1.85	0.59
1:J:167:LYS:N	1:J:172:ASP:OD2	2.29	0.59
1:J:416:PHE:N	1:J:419:SER:O	2.35	0.59
1:L:497:LEU:O	1:L:501:ILE:HG12	2.03	0.59
1:M:93:ARG:NH1	1:M:477:ASP:OD1	2.36	0.59
1:M:499:SER:HG	1:r:88:HIS:CE1	2.21	0.59
1:N:397:THR:HA	1:Z:399:SER:HB3	1.85	0.59
1:P:449:LYS:HE3	1:P:451:LEU:HD11	1.85	0.59
1:T:92:ILE:HG22	1:T:476:LEU:HD11	1.85	0.59
1:Z:301:ASN:ND2	1:d:287:SER:O	2.35	0.59
1:n:393:ALA:HB3	1:n:398:ASP:HA	1.85	0.59
1:E:227:ASN:O	1:E:239:TYR:N	2.27	0.59
1:G:402:THR:O	1:G:410:LEU:HD13	2.02	0.59
1:I:397:THR:HA	1:U:399:SER:HB3	1.85	0.59
1:b:74:LEU:HD11	1:b:137:VAL:HG11	1.85	0.59
1:b:461:GLU:HG3	1:b:463:THR:H	1.68	0.59
1:e:42:LYS:O	1:m:495:ASN:ND2	2.27	0.59
1:h:386:THR:H	1:h:405:ASP:HB2	1.68	0.59
1:o:441:GLN:HG2	1:o:445:ALA:HB3	1.85	0.59
1:s:393:ALA:HB3	1:s:398:ASP:HA	1.85	0.59
1:v:55:THR:HG22	1:v:515:ARG:HH11	1.68	0.59
1:D:185:ARG:NH1	1:D:191:ASP:OD2	2.35	0.59
1:D:200:GLN:NE2	1:D:204:THR:HB	2.18	0.59
1:E:227:ASN:OD1	1:E:228:THR:N	2.36	0.59
1:E:312:THR:O	1:E:314:ASN:ND2	2.35	0.59
1:Z:195:GLN:HE22	1:Z:457:LYS:HA	1.68	0.59
1:k:13:VAL:O	1:k:17:ASN:ND2	2.35	0.59
1:E:402:THR:O	1:E:410:LEU:HD13	2.03	0.58
1:F:392:PHE:N	1:F:398:ASP:OD2	2.36	0.58
1:L:93:ARG:NH1	1:L:477:ASP:OD1	2.35	0.58
1:M:254:THR:HG22	1:M:362:THR:HB	1.85	0.58
1:P:22:GLN:HB2	1:P:537:GLN:HE22	1.68	0.58
1:P:183:GLN:HA	1:P:463:THR:HA	1.85	0.58
1:P:403:TRP:CD1	1:P:408:GLY:HA2	2.38	0.58
1:c:386:THR:H	1:c:405:ASP:HB2	1.68	0.58
1:d:13:VAL:O	1:d:17:ASN:ND2	2.35	0.58
1:d:164:ILE:HG23	1:d:169:LEU:HD21	1.84	0.58
1:p:197:GLY:N	1:p:205:TYR:OH	2.35	0.58
1:A:110:ASP:HA	1:A:177:ASN:HD22	1.67	0.58
1:B:393:ALA:HB3	1:B:398:ASP:HA	1.85	0.58
1:G:332:VAL:HG11	1:G:342:ILE:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:421:LYS:NZ	1:G:423:ASN:O	2.30	0.58
1:J:421:LYS:NZ	1:J:423:ASN:O	2.29	0.58
1:K:500:THR:HG22	1:p:125:ARG:NH2	2.18	0.58
1:Q:337:ASN:HA	1:Q:354:GLU:HG2	1.84	0.58
1:U:148:GLN:NE2	1:U:153:ASP:OD1	2.36	0.58
1:X:22:GLN:HB2	1:X:537:GLN:HE22	1.67	0.58
1:a:13:VAL:O	1:a:17:ASN:ND2	2.35	0.58
1:q:304:PHE:HA	1:q:323:ALA:HB2	1.84	0.58
1:s:307:ALA:O	1:s:311:LEU:N	2.22	0.58
1:u:416:PHE:N	1:u:419:SER:O	2.36	0.58
1:A:332:VAL:HG11	1:A:342:ILE:HD11	1.84	0.58
1:B:386:THR:H	1:B:405:ASP:HB2	1.67	0.58
1:G:392:PHE:N	1:G:398:ASP:OD2	2.36	0.58
1:J:125:ARG:HH21	1:V:500:THR:HG22	1.67	0.58
1:L:91:ARG:NH1	1:L:94:GLU:OE1	2.35	0.58
1:L:227:ASN:OD1	1:L:228:THR:N	2.36	0.58
1:T:355:LEU:HG	1:T:357:TYR:H	1.69	0.58
1:W:93:ARG:NH1	1:W:477:ASP:OD1	2.36	0.58
1:W:311:LEU:HB3	1:W:331:SER:HB2	1.84	0.58
1:d:41:ALA:N	1:l:79:GLU:OE2	2.36	0.58
1:h:151:ALA:HB1	1:p:93:ARG:HH21	1.67	0.58
1:m:411:THR:O	1:m:414:GLN:NE2	2.37	0.58
1:s:416:PHE:N	1:s:419:SER:O	2.36	0.58
1:B:187:ALA:HB3	1:B:450:VAL:HG13	1.86	0.58
1:D:393:ALA:HB3	1:D:398:ASP:HA	1.85	0.58
1:H:312:THR:O	1:H:314:ASN:ND2	2.36	0.58
1:K:230:ALA:HB2	1:K:236:THR:HG23	1.83	0.58
1:Q:105:SER:OG	1:Q:108:GLN:OE1	2.17	0.58
1:Q:187:ALA:HB3	1:Q:450:VAL:HG13	1.84	0.58
1:R:386:THR:H	1:R:405:ASP:HB2	1.68	0.58
1:T:183:GLN:HA	1:T:463:THR:HA	1.85	0.58
1:V:187:ALA:HB3	1:V:450:VAL:HG13	1.85	0.58
1:a:306:ASN:HD22	1:a:306:ASN:C	2.10	0.58
1:f:317:SER:OG	1:f:321:THR:OG1	2.20	0.58
1:g:63:GLN:HB2	1:o:94:GLU:OE2	2.02	0.58
1:A:288:PHE:HE2	1:q:316:ALA:HB2	1.69	0.58
1:H:421:LYS:NZ	1:H:423:ASN:O	2.31	0.58
1:I:304:PHE:HA	1:I:323:ALA:HB2	1.83	0.58
1:I:416:PHE:N	1:I:419:SER:O	2.37	0.58
1:J:157:ILE:HG21	1:J:497:LEU:HD21	1.86	0.58
1:O:37:ARG:N	1:O:519:GLN:O	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:88:HIS:NE2	1:O:122:ASP:OD2	2.36	0.58
1:O:177:ASN:HD21	1:O:179:LYS:NZ	2.01	0.58
1:R:183:GLN:HA	1:R:463:THR:HA	1.86	0.58
1:U:22:GLN:HB2	1:U:537:GLN:HE22	1.68	0.58
1:U:92:ILE:HG22	1:U:476:LEU:HD11	1.86	0.58
1:V:296:ILE:HD13	1:V:328:VAL:HG21	1.85	0.58
1:X:386:THR:H	1:X:405:ASP:HB2	1.68	0.58
1:Y:183:GLN:HA	1:Y:463:THR:HA	1.84	0.58
1:d:63:GLN:HB2	1:l:94:GLU:OE2	2.04	0.58
1:g:99:ALA:HB2	1:g:112:VAL:HG11	1.86	0.58
1:E:390:VAL:HG23	1:E:403:TRP:HH2	1.68	0.58
1:K:110:ASP:HA	1:K:177:ASN:HD22	1.68	0.58
1:K:227:ASN:OD1	1:K:228:THR:N	2.36	0.58
1:M:84:GLU:HG2	1:Y:503:ASN:HB2	1.86	0.58
1:O:411:THR:O	1:O:414:GLN:NE2	2.36	0.58
1:Q:484:ASP:HA	1:Q:487:THR:HG22	1.85	0.58
1:S:337:ASN:HA	1:S:354:GLU:HG2	1.84	0.58
1:T:88:HIS:NE2	1:T:122:ASP:OD2	2.36	0.58
1:Y:311:LEU:HB3	1:Y:331:SER:HB2	1.85	0.58
1:g:13:VAL:O	1:g:17:ASN:ND2	2.37	0.58
1:h:431:VAL:O	1:h:440:GLY:N	2.35	0.58
1:q:281:SER:HA	1:q:286:ALA:HB3	1.85	0.58
1:N:227:ASN:OD1	1:N:228:THR:N	2.36	0.58
1:Q:449:LYS:HE3	1:Q:451:LEU:HD11	1.85	0.58
1:i:461:GLU:HG3	1:i:463:THR:H	1.68	0.58
1:j:41:ALA:N	1:r:79:GLU:OE2	2.35	0.58
1:t:441:GLN:HG2	1:t:445:ALA:HB3	1.86	0.58
1:u:471:ASP:HB3	1:u:474:LYS:HB2	1.84	0.58
1:D:125:ARG:NH2	1:F:500:THR:HG22	2.18	0.58
1:D:192:VAL:O	1:D:205:TYR:OH	2.21	0.58
1:D:473:LEU:HD12	1:c:153:ASP:H	1.68	0.58
1:I:200:GLN:HE22	1:I:206:LYS:HG2	1.69	0.58
1:L:36:LEU:HD22	1:L:519:GLN:HG2	1.86	0.58
1:M:144:PRO:HB2	1:M:158:THR:HG23	1.86	0.58
1:N:157:ILE:HG21	1:N:497:LEU:HD21	1.86	0.58
1:N:332:VAL:HG11	1:N:342:ILE:HD11	1.85	0.58
1:R:187:ALA:HB3	1:R:450:VAL:HG13	1.86	0.58
1:Z:105:SER:OG	1:Z:108:GLN:OE1	2.15	0.58
1:a:138:LEU:HD11	1:a:164:ILE:HD12	1.85	0.58
1:e:383:SER:OG	1:e:405:ASP:O	2.22	0.58
1:f:13:VAL:O	1:f:17:ASN:ND2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:386:THR:H	1:f:405:ASP:HB2	1.69	0.58
1:p:353:ASP:HB2	1:p:362:THR:HG22	1.86	0.58
1:s:281:SER:HA	1:s:286:ALA:HB3	1.85	0.58
1:A:392:PHE:N	1:A:398:ASP:OD2	2.37	0.58
1:H:303:ALA:HA	1:H:315:ASP:HB3	1.86	0.58
1:I:41:ALA:HB2	1:I:48:MET:SD	2.44	0.58
1:K:441:GLN:HE22	1:K:446:ASP:N	2.02	0.58
1:U:449:LYS:HE3	1:U:451:LEU:HD11	1.86	0.58
1:X:301:ASN:ND2	1:b:287:SER:O	2.37	0.58
1:Z:230:ALA:HB2	1:Z:236:THR:HG23	1.86	0.58
1:a:383:SER:OG	1:a:405:ASP:O	2.22	0.58
1:b:248:TYR:HE2	1:b:250:LYS:HG3	1.68	0.58
1:c:278:TYR:HB2	1:c:290:VAL:HG23	1.86	0.58
1:e:99:ALA:HB2	1:e:112:VAL:HG11	1.84	0.58
1:i:5:ILE:HG12	1:q:523:TYR:HE1	1.68	0.58
1:s:304:PHE:O	1:s:314:ASN:N	2.36	0.58
1:B:92:ILE:HG22	1:B:476:LEU:HD11	1.85	0.58
1:D:333:GLY:H	1:D:337:ASN:HB2	1.68	0.58
1:H:21:SER:OG	1:H:537:GLN:OE1	2.22	0.58
1:H:317:SER:HG	1:u:284:LYS:H	1.51	0.58
1:I:392:PHE:N	1:I:398:ASP:OD2	2.37	0.58
1:L:113:GLN:HE21	1:L:176:VAL:H	1.52	0.58
1:M:40:SER:O	1:M:42:LYS:N	2.37	0.58
1:O:500:THR:HG22	1:t:125:ARG:NH2	2.19	0.58
1:Q:157:ILE:HG23	1:Q:496:ARG:HH21	1.69	0.58
1:S:22:GLN:HB2	1:S:537:GLN:HE22	1.68	0.58
1:T:55:THR:HG22	1:T:515:ARG:HH11	1.69	0.58
1:V:92:ILE:HG22	1:V:476:LEU:HD11	1.86	0.58
1:Z:138:LEU:HD11	1:Z:164:ILE:HB	1.86	0.58
1:e:278:TYR:HB2	1:e:290:VAL:HG23	1.84	0.58
1:g:41:ALA:N	1:o:79:GLU:OE2	2.36	0.58
1:j:318:GLY:H	1:j:321:THR:HG21	1.69	0.58
1:n:185:ARG:NH1	1:n:191:ASP:OD2	2.36	0.58
1:o:416:PHE:N	1:o:419:SER:O	2.37	0.58
1:q:353:ASP:HB2	1:q:362:THR:HG22	1.86	0.58
1:r:352:ALA:HB3	1:r:362:THR:HG23	1.86	0.58
1:F:304:PHE:HA	1:F:323:ALA:HB2	1.85	0.57
1:H:177:ASN:HD21	1:H:179:LYS:NZ	2.02	0.57
1:H:500:THR:HG22	1:m:125:ARG:NH2	2.18	0.57
1:S:148:GLN:NE2	1:S:153:ASP:OD1	2.37	0.57
1:T:148:GLN:NE2	1:T:153:ASP:OD1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:230:ALA:HB2	1:U:236:THR:HG23	1.84	0.57
1:g:95:LEU:HD11	1:g:116:ILE:HG12	1.86	0.57
1:i:13:VAL:O	1:i:17:ASN:ND2	2.36	0.57
1:n:410:LEU:HG	1:n:413:ILE:H	1.69	0.57
1:n:522:ASP:OD1	1:n:525:THR:OG1	2.21	0.57
1:o:441:GLN:HB3	1:o:448:ALA:H	1.67	0.57
1:s:353:ASP:HB2	1:s:362:THR:HG22	1.85	0.57
1:v:171:LEU:HB3	1:v:174:PHE:HB2	1.86	0.57
1:A:21:SER:OG	1:A:537:GLN:OE1	2.22	0.57
1:C:383:SER:OG	1:C:405:ASP:O	2.22	0.57
1:I:227:ASN:OD1	1:I:228:THR:N	2.37	0.57
1:L:21:SER:OG	1:L:537:GLN:OE1	2.22	0.57
1:M:41:ALA:HB2	1:M:48:MET:SD	2.44	0.57
1:O:36:LEU:HD22	1:O:519:GLN:HG2	1.86	0.57
1:O:91:ARG:NH1	1:O:94:GLU:OE1	2.37	0.57
1:P:230:ALA:HB2	1:P:236:THR:HG23	1.85	0.57
1:U:88:HIS:NE2	1:U:122:ASP:OD2	2.38	0.57
1:Y:324:THR:HG23	1:Y:327:ASP:H	1.69	0.57
1:a:95:LEU:HD11	1:a:116:ILE:HG12	1.87	0.57
1:e:212:ASN:HA	1:e:414:GLN:HG3	1.86	0.57
1:n:227:ASN:O	1:n:239:TYR:N	2.34	0.57
1:r:311:LEU:HB3	1:r:331:SER:HB2	1.86	0.57
1:u:410:LEU:HG	1:u:413:ILE:H	1.69	0.57
1:F:421:LYS:NZ	1:F:423:ASN:O	2.31	0.57
1:H:91:ARG:NH1	1:H:94:GLU:OE1	2.37	0.57
1:J:298:ILE:HG22	1:J:303:ALA:HB2	1.86	0.57
1:K:254:THR:HG22	1:K:362:THR:HB	1.85	0.57
1:N:500:THR:HG22	1:s:125:ARG:HH21	1.67	0.57
1:Y:230:ALA:HB2	1:Y:236:THR:HG23	1.86	0.57
1:b:95:LEU:HD11	1:b:116:ILE:HG12	1.87	0.57
1:f:41:ALA:N	1:n:79:GLU:OE2	2.38	0.57
1:j:461:GLU:HG3	1:j:463:THR:H	1.69	0.57
1:q:416:PHE:N	1:q:419:SER:O	2.37	0.57
1:C:140:ASP:HA	1:C:163:GLU:HG3	1.87	0.57
1:D:307:ALA:O	1:D:311:LEU:N	2.23	0.57
1:H:36:LEU:HD22	1:H:519:GLN:HG2	1.85	0.57
1:I:319:ALA:HB2	1:v:284:LYS:HZ1	1.68	0.57
1:P:105:SER:OG	1:P:108:GLN:OE1	2.18	0.57
1:R:484:ASP:HA	1:R:487:THR:HG22	1.85	0.57
1:T:22:GLN:HB2	1:T:537:GLN:HE22	1.69	0.57
1:V:30:GLU:HG2	1:h:13:VAL:HG11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:42:LYS:O	1:d:495:ASN:ND2	2.28	0.57
1:V:230:ALA:HB2	1:V:236:THR:HG23	1.85	0.57
1:W:301:ASN:ND2	1:a:287:SER:O	2.37	0.57
1:e:95:LEU:HD11	1:e:116:ILE:HG12	1.86	0.57
1:g:145:LEU:HB2	1:g:159:LEU:HD12	1.85	0.57
1:j:159:LEU:HB3	1:j:161:LEU:HD22	1.85	0.57
1:j:396:THR:HG21	1:v:420:TYR:HD2	1.67	0.57
1:k:64:ALA:HB1	1:k:150:GLY:H	1.69	0.57
1:l:341:THR:HG22	1:l:350:SER:HA	1.86	0.57
1:t:148:GLN:NE2	1:t:150:GLY:O	2.37	0.57
1:u:12:LEU:O	1:u:16:ASN:ND2	2.37	0.57
1:F:397:THR:HA	1:R:399:SER:HB3	1.86	0.57
1:H:288:PHE:CE1	1:u:315:ASP:HB3	2.40	0.57
1:K:91:ARG:NH1	1:K:94:GLU:OE1	2.38	0.57
1:N:37:ARG:N	1:N:519:GLN:O	2.37	0.57
1:T:64:ALA:HB1	1:T:150:GLY:H	1.69	0.57
1:V:22:GLN:HB2	1:V:537:GLN:HE22	1.68	0.57
1:b:138:LEU:HD11	1:b:164:ILE:HD12	1.87	0.57
1:d:99:ALA:HB2	1:d:112:VAL:HG11	1.86	0.57
1:g:278:TYR:HB2	1:g:290:VAL:HG23	1.87	0.57
1:l:297:THR:OG1	1:l:301:ASN:O	2.23	0.57
1:m:192:VAL:HG12	1:m:458:LEU:HD11	1.84	0.57
1:q:393:ALA:HB3	1:q:398:ASP:HA	1.86	0.57
1:r:230:ALA:HB2	1:r:236:THR:HG23	1.86	0.57
1:r:441:GLN:HB3	1:r:448:ALA:H	1.69	0.57
1:D:228:THR:HG22	1:D:238:THR:HG23	1.86	0.57
1:F:416:PHE:N	1:F:419:SER:O	2.36	0.57
1:G:91:ARG:NH1	1:G:94:GLU:OE1	2.37	0.57
1:I:86:ASN:O	1:I:90:GLN:HG2	2.04	0.57
1:L:192:VAL:HG12	1:L:458:LEU:HD11	1.86	0.57
1:L:332:VAL:HG11	1:L:342:ILE:HD11	1.86	0.57
1:N:407:LYS:HZ3	1:N:409:GLU:HB3	1.69	0.57
1:Q:64:ALA:HB1	1:Q:150:GLY:H	1.70	0.57
1:Q:91:ARG:NH1	1:Q:94:GLU:OE1	2.38	0.57
1:T:279:GLU:HB2	1:T:343:GLY:HA3	1.86	0.57
1:V:22:GLN:NE2	1:h:2:ALA:O	2.38	0.57
1:V:88:HIS:NE2	1:V:122:ASP:OD2	2.37	0.57
1:Z:332:VAL:HG13	1:Z:340:VAL:HG12	1.85	0.57
1:e:41:ALA:N	1:m:79:GLU:OE2	2.37	0.57
1:i:63:GLN:HB2	1:q:94:GLU:OE2	2.04	0.57
1:l:216:ALA:HA	1:l:403:TRP:CH2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:227:ASN:O	1:l:239:TYR:N	2.35	0.57
1:o:169:LEU:HD23	1:o:479:ALA:HB1	1.85	0.57
1:s:55:THR:HG22	1:s:515:ARG:HH11	1.68	0.57
1:v:281:SER:HA	1:v:286:ALA:HB3	1.86	0.57
1:F:227:ASN:HB3	1:F:239:TYR:HB2	1.85	0.57
1:G:86:ASN:O	1:G:90:GLN:HG2	2.05	0.57
1:H:333:GLY:H	1:H:337:ASN:HB2	1.69	0.57
1:I:524:ALA:HB1	1:f:15:GLN:HG2	1.85	0.57
1:O:88:HIS:O	1:O:92:ILE:HG12	2.04	0.57
1:V:41:ALA:N	1:d:79:GLU:OE2	2.38	0.57
1:W:230:ALA:HB2	1:W:236:THR:HG23	1.87	0.57
1:X:315:ASP:N	1:X:315:ASP:OD1	2.38	0.57
1:c:401:ASN:HB3	1:c:410:LEU:HD21	1.87	0.57
1:d:304:PHE:N	1:d:314:ASN:O	2.37	0.57
1:d:461:GLU:HG3	1:d:463:THR:H	1.70	0.57
1:h:95:LEU:HD11	1:h:116:ILE:HG12	1.86	0.57
1:v:12:LEU:O	1:v:16:ASN:ND2	2.38	0.57
1:A:86:ASN:O	1:A:90:GLN:HG2	2.04	0.57
1:C:138:LEU:HD11	1:C:164:ILE:HD12	1.87	0.57
1:E:21:SER:OG	1:E:537:GLN:OE1	2.23	0.57
1:E:290:VAL:HG11	1:E:296:ILE:HG23	1.87	0.57
1:F:304:PHE:HB2	1:F:314:ASN:O	2.05	0.57
1:J:40:SER:O	1:J:42:LYS:N	2.38	0.57
1:J:227:ASN:OD1	1:J:228:THR:N	2.38	0.57
1:O:110:ASP:HA	1:O:177:ASN:HD22	1.68	0.57
1:Y:105:SER:OG	1:Y:108:GLN:OE1	2.17	0.57
1:a:37:ARG:NH1	1:a:44:ASP:OD2	2.33	0.57
1:f:95:LEU:HD11	1:f:116:ILE:HG12	1.87	0.57
1:f:151:ALA:HB1	1:n:93:ARG:HH21	1.70	0.57
1:i:151:ALA:HB1	1:q:93:ARG:HH21	1.69	0.57
1:E:317:SER:HG	1:r:284:LYS:H	1.52	0.57
1:H:392:PHE:N	1:H:398:ASP:OD2	2.38	0.57
1:H:523:TYR:HD2	1:q:554:VAL:HG11	1.69	0.57
1:I:36:LEU:HD22	1:I:519:GLN:HG2	1.87	0.57
1:J:407:LYS:HZ3	1:J:409:GLU:HB3	1.69	0.57
1:K:183:GLN:HG3	1:K:463:THR:HG22	1.87	0.57
1:M:91:ARG:NH1	1:M:94:GLU:OE1	2.37	0.57
1:O:40:SER:O	1:O:42:LYS:N	2.37	0.57
1:P:64:ALA:CB	1:P:150:GLY:H	2.18	0.57
1:P:157:ILE:HG12	1:P:496:ARG:HH21	1.69	0.57
1:Q:403:TRP:CD1	1:Q:408:GLY:HA2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:365:ASP:OD1	1:S:366:VAL:N	2.38	0.57
1:S:403:TRP:CD1	1:S:408:GLY:HA2	2.40	0.57
1:U:42:LYS:O	1:c:495:ASN:ND2	2.26	0.57
1:U:332:VAL:HG13	1:U:340:VAL:HG12	1.87	0.57
1:Z:153:ASP:O	1:h:474:LYS:NZ	2.37	0.57
1:a:278:TYR:HD1	1:a:344:GLY:HA3	1.70	0.57
1:b:375:ALA:O	1:b:378:THR:OG1	2.21	0.57
1:f:278:TYR:HD1	1:f:344:GLY:HA3	1.70	0.57
1:n:197:GLY:N	1:n:205:TYR:OH	2.35	0.57
1:t:227:ASN:O	1:t:239:TYR:N	2.34	0.57
1:t:317:SER:HA	1:t:321:THR:HG21	1.87	0.57
1:A:333:GLY:H	1:A:337:ASN:HB2	1.69	0.57
1:F:332:VAL:HG11	1:F:342:ILE:HD11	1.87	0.57
1:F:441:GLN:HB3	1:F:448:ALA:H	1.70	0.57
1:G:227:ASN:OD1	1:G:228:THR:N	2.38	0.57
1:O:21:SER:OG	1:O:537:GLN:OE1	2.23	0.57
1:O:227:ASN:OD1	1:O:228:THR:N	2.38	0.57
1:P:92:ILE:HG22	1:P:476:LEU:HD11	1.87	0.57
1:P:355:LEU:HG	1:P:357:TYR:H	1.69	0.57
1:Q:386:THR:H	1:Q:405:ASP:HB2	1.69	0.57
1:R:365:ASP:OD1	1:R:366:VAL:N	2.38	0.57
1:S:183:GLN:HA	1:S:463:THR:HA	1.87	0.57
1:V:391:THR:OG1	1:V:400:ASN:OD1	2.23	0.57
1:Y:167:LYS:HD2	1:Y:167:LYS:O	2.05	0.57
1:Y:365:ASP:OD1	1:Y:366:VAL:N	2.38	0.57
1:Z:88:HIS:NE2	1:Z:122:ASP:OD2	2.37	0.57
1:b:175:ASN:ND2	1:b:177:ASN:O	2.35	0.57
1:d:140:ASP:HA	1:d:163:GLU:HG3	1.86	0.57
1:p:393:ALA:HB3	1:p:398:ASP:HA	1.87	0.57
1:C:13:VAL:O	1:C:17:ASN:ND2	2.35	0.56
1:C:159:LEU:HB3	1:C:161:LEU:HD22	1.86	0.56
1:D:523:TYR:HE2	1:c:5:ILE:HG12	1.69	0.56
1:F:21:SER:OG	1:F:537:GLN:OE1	2.22	0.56
1:H:40:SER:O	1:H:42:LYS:N	2.37	0.56
1:H:522:ASP:OD1	1:q:3:ALA:N	2.37	0.56
1:J:91:ARG:NH1	1:J:94:GLU:OE1	2.38	0.56
1:K:402:THR:O	1:K:410:LEU:HD13	2.05	0.56
1:O:86:ASN:O	1:O:90:GLN:HG2	2.05	0.56
1:P:91:ARG:NH1	1:P:94:GLU:OE1	2.38	0.56
1:S:64:ALA:HB1	1:S:150:GLY:H	1.70	0.56
1:S:138:LEU:HD11	1:S:164:ILE:HB	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:64:ALA:CB	1:h:150:GLY:H	2.18	0.56
1:o:13:VAL:O	1:o:17:ASN:ND2	2.38	0.56
1:H:86:ASN:O	1:H:90:GLN:HG2	2.05	0.56
1:N:500:THR:HG22	1:s:125:ARG:NH2	2.20	0.56
1:P:431:VAL:O	1:P:440:GLY:N	2.39	0.56
1:U:22:GLN:NE2	1:g:2:ALA:O	2.37	0.56
1:X:230:ALA:HB2	1:X:236:THR:HG23	1.87	0.56
1:a:278:TYR:HB2	1:a:290:VAL:HG23	1.85	0.56
1:d:153:ASP:H	1:l:473:LEU:HD12	1.70	0.56
1:f:212:ASN:HA	1:f:414:GLN:HG3	1.87	0.56
1:g:386:THR:H	1:g:405:ASP:HB2	1.70	0.56
1:h:63:GLN:HB2	1:p:94:GLU:OE2	2.05	0.56
1:h:175:ASN:ND2	1:h:177:ASN:O	2.31	0.56
1:j:151:ALA:HB1	1:r:93:ARG:HH21	1.69	0.56
1:j:386:THR:H	1:j:405:ASP:HB2	1.70	0.56
1:q:306:ASN:HD22	1:q:314:ASN:HB2	1.70	0.56
1:r:167:LYS:HA	1:r:172:ASP:HB2	1.88	0.56
1:r:306:ASN:HD22	1:r:314:ASN:HB2	1.70	0.56
1:A:40:SER:O	1:A:42:LYS:N	2.38	0.56
1:A:402:THR:O	1:A:410:LEU:HD13	2.05	0.56
1:B:105:SER:OG	1:B:108:GLN:OE1	2.17	0.56
1:B:365:ASP:OD1	1:B:366:VAL:N	2.39	0.56
1:D:370:MET:HE2	1:D:379:VAL:HG21	1.86	0.56
1:D:525:THR:O	1:D:529:ASN:ND2	2.38	0.56
1:E:91:ARG:NH1	1:E:94:GLU:OE1	2.37	0.56
1:E:411:THR:O	1:E:414:GLN:NE2	2.38	0.56
1:F:91:ARG:NH1	1:F:94:GLU:OE1	2.38	0.56
1:F:183:GLN:HG3	1:F:463:THR:HG22	1.87	0.56
1:G:230:ALA:HB2	1:G:236:THR:HG23	1.87	0.56
1:K:219:VAL:HG21	1:K:403:TRP:HZ2	1.70	0.56
1:L:155:GLU:CD	1:q:129:GLN:HE22	2.13	0.56
1:M:227:ASN:OD1	1:M:228:THR:N	2.38	0.56
1:R:105:SER:OG	1:R:108:GLN:OE1	2.17	0.56
1:S:91:ARG:NH1	1:S:94:GLU:OE1	2.38	0.56
1:S:391:THR:OG1	1:S:400:ASN:OD1	2.22	0.56
1:V:416:PHE:CD2	1:V:421:LYS:HG3	2.40	0.56
1:X:365:ASP:OD1	1:X:366:VAL:N	2.39	0.56
1:Y:38:ILE:HG12	1:Y:519:GLN:HA	1.88	0.56
1:Z:449:LYS:HE3	1:Z:451:LEU:HD11	1.86	0.56
1:d:95:LEU:HD11	1:d:116:ILE:HG12	1.87	0.56
1:e:175:ASN:ND2	1:e:177:ASN:O	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:383:SER:OG	1:f:405:ASP:O	2.23	0.56
1:h:153:ASP:H	1:p:473:LEU:HD12	1.69	0.56
1:j:164:ILE:HG23	1:j:169:LEU:HD21	1.87	0.56
1:s:39:ASN:C	1:s:39:ASN:ND2	2.56	0.56
1:B:230:ALA:HB2	1:B:236:THR:HG23	1.87	0.56
1:H:227:ASN:OD1	1:H:228:THR:N	2.38	0.56
1:M:402:THR:O	1:M:410:LEU:HD13	2.06	0.56
1:N:110:ASP:OD1	1:N:177:ASN:ND2	2.36	0.56
1:P:187:ALA:HB3	1:P:450:VAL:HG13	1.88	0.56
1:Q:290:VAL:HG12	1:Q:298:ILE:HG12	1.86	0.56
1:Q:296:ILE:HD13	1:Q:328:VAL:HG21	1.86	0.56
1:R:22:GLN:NE2	1:d:2:ALA:O	2.38	0.56
1:R:332:VAL:HG13	1:R:340:VAL:HG12	1.86	0.56
1:T:187:ALA:HB3	1:T:450:VAL:HG13	1.87	0.56
1:T:332:VAL:HG13	1:T:340:VAL:HG12	1.87	0.56
1:U:484:ASP:HA	1:U:487:THR:HG22	1.87	0.56
1:X:449:LYS:HE3	1:X:451:LEU:HD11	1.86	0.56
1:Z:365:ASP:OD1	1:Z:366:VAL:N	2.39	0.56
1:h:317:SER:OG	1:h:321:THR:OG1	2.19	0.56
1:m:353:ASP:HB2	1:m:362:THR:HG22	1.87	0.56
1:r:37:ARG:NH2	1:r:518:ILE:O	2.39	0.56
1:B:449:LYS:HE3	1:B:451:LEU:HD11	1.87	0.56
1:F:93:ARG:NH1	1:F:477:ASP:OD1	2.37	0.56
1:G:21:SER:OG	1:G:537:GLN:OE1	2.24	0.56
1:H:41:ALA:HB2	1:H:48:MET:SD	2.45	0.56
1:H:155:GLU:CD	1:m:129:GLN:HE22	2.14	0.56
1:H:288:PHE:HE2	1:u:316:ALA:HB2	1.69	0.56
1:I:40:SER:O	1:I:42:LYS:N	2.38	0.56
1:J:86:ASN:O	1:J:90:GLN:HG2	2.05	0.56
1:J:420:TYR:H	1:V:394:ILE:HG21	1.71	0.56
1:K:332:VAL:HG11	1:K:342:ILE:HD11	1.87	0.56
1:O:155:GLU:CD	1:t:129:GLN:HE22	2.13	0.56
1:Q:332:VAL:HG13	1:Q:340:VAL:HG12	1.88	0.56
1:Y:386:THR:H	1:Y:405:ASP:HB2	1.71	0.56
1:c:64:ALA:CB	1:c:150:GLY:H	2.19	0.56
1:i:278:TYR:HB2	1:i:290:VAL:HG23	1.88	0.56
1:m:227:ASN:O	1:m:239:TYR:N	2.35	0.56
1:n:416:PHE:N	1:n:419:SER:O	2.39	0.56
1:v:306:ASN:HD22	1:v:314:ASN:HB2	1.70	0.56
1:A:219:VAL:HG21	1:A:403:TRP:HZ2	1.70	0.56
1:A:441:GLN:HB3	1:A:448:ALA:H	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:290:VAL:HG11	1:G:296:ILE:HG23	1.88	0.56
1:M:411:THR:O	1:M:414:GLN:NE2	2.38	0.56
1:N:21:SER:OG	1:N:537:GLN:OE1	2.24	0.56
1:T:365:ASP:OD1	1:T:366:VAL:N	2.38	0.56
1:Y:88:HIS:NE2	1:Y:122:ASP:OD2	2.39	0.56
1:Y:355:LEU:HG	1:Y:357:TYR:H	1.70	0.56
1:Z:92:ILE:HG22	1:Z:476:LEU:HD11	1.87	0.56
1:d:386:THR:H	1:d:405:ASP:HB2	1.70	0.56
1:e:63:GLN:HB2	1:m:94:GLU:OE2	2.05	0.56
1:i:78:THR:HG21	1:i:161:LEU:HD12	1.88	0.56
1:j:175:ASN:ND2	1:j:177:ASN:O	2.39	0.56
1:q:333:GLY:H	1:q:337:ASN:HB2	1.69	0.56
1:q:525:THR:O	1:q:529:ASN:ND2	2.39	0.56
1:A:303:ALA:HA	1:A:315:ASP:HB3	1.88	0.56
1:C:376:VAL:HA	1:C:379:VAL:HG12	1.88	0.56
1:D:94:GLU:OE2	1:c:63:GLN:HB2	2.05	0.56
1:F:86:ASN:O	1:F:90:GLN:HG2	2.05	0.56
1:F:157:ILE:HG21	1:F:497:LEU:HD21	1.87	0.56
1:I:110:ASP:HA	1:I:177:ASN:HD22	1.71	0.56
1:M:416:PHE:N	1:M:419:SER:O	2.38	0.56
1:N:86:ASN:O	1:N:90:GLN:HG2	2.06	0.56
1:O:230:ALA:HB2	1:O:236:THR:HG23	1.86	0.56
1:P:64:ALA:HB1	1:P:150:GLY:H	1.70	0.56
1:Q:311:LEU:HB3	1:Q:331:SER:HB2	1.87	0.56
1:R:38:ILE:HG12	1:R:519:GLN:HA	1.87	0.56
1:S:133:ASN:ND2	1:a:103:SER:O	2.38	0.56
1:T:431:VAL:O	1:T:440:GLY:N	2.39	0.56
1:V:404:VAL:HB	1:V:407:LYS:HB2	1.88	0.56
1:W:365:ASP:OD1	1:W:366:VAL:N	2.38	0.56
1:Y:91:ARG:NH1	1:Y:94:GLU:OE1	2.38	0.56
1:Z:375:ALA:O	1:Z:378:THR:OG1	2.19	0.56
1:d:395:ALA:HA	1:d:398:ASP:HB2	1.88	0.56
1:B:38:ILE:HG12	1:B:519:GLN:HA	1.88	0.56
1:B:431:VAL:O	1:B:440:GLY:N	2.39	0.56
1:E:145:LEU:HB2	1:E:159:LEU:HD12	1.86	0.56
1:F:402:THR:O	1:F:410:LEU:HD13	2.06	0.56
1:K:227:ASN:O	1:K:239:TYR:N	2.28	0.56
1:N:420:TYR:H	1:Z:394:ILE:HG21	1.71	0.56
1:O:279:GLU:O	1:O:343:GLY:N	2.33	0.56
1:Q:365:ASP:OD1	1:Q:366:VAL:N	2.39	0.56
1:W:157:ILE:HG12	1:W:496:ARG:NH2	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:375:ALA:O	1:W:378:THR:OG1	2.21	0.56
1:h:401:ASN:HB3	1:h:410:LEU:HD21	1.88	0.56
1:h:500:THR:O	1:h:504:LEU:HD23	2.06	0.56
1:i:64:ALA:CB	1:i:150:GLY:H	2.19	0.56
1:k:278:TYR:HD1	1:k:344:GLY:HA3	1.70	0.56
1:H:500:THR:HG22	1:m:125:ARG:HH21	1.70	0.56
1:J:118:GLN:HG2	1:V:496:ARG:HD3	1.88	0.56
1:J:155:GLU:CD	1:o:129:GLN:HE22	2.14	0.56
1:K:298:ILE:HG22	1:K:303:ALA:HB2	1.86	0.56
1:M:421:LYS:NZ	1:M:423:ASN:O	2.32	0.56
1:P:38:ILE:HG12	1:P:519:GLN:HA	1.87	0.56
1:Q:64:ALA:CB	1:Q:150:GLY:H	2.19	0.56
1:Q:167:LYS:HD2	1:Q:167:LYS:O	2.05	0.56
1:U:311:LEU:HB3	1:U:331:SER:HB2	1.88	0.56
1:V:195:GLN:HE22	1:V:457:LYS:HB2	1.70	0.56
1:X:206:LYS:NZ	1:X:427:GLY:O	2.39	0.56
1:Y:403:TRP:CD1	1:Y:408:GLY:HA2	2.40	0.56
1:e:140:ASP:HA	1:e:163:GLU:HG3	1.87	0.56
1:g:151:ALA:HB1	1:o:93:ARG:HH21	1.71	0.56
1:j:140:ASP:HA	1:j:163:GLU:HG3	1.88	0.56
1:n:216:ALA:HA	1:n:403:TRP:CH2	2.41	0.56
1:E:177:ASN:HD21	1:E:179:LYS:NZ	2.04	0.56
1:G:303:ALA:HA	1:G:315:ASP:HB3	1.88	0.56
1:S:88:HIS:NE2	1:S:122:ASP:OD2	2.38	0.56
1:V:55:THR:HG22	1:V:515:ARG:HH11	1.71	0.56
1:X:332:VAL:HG13	1:X:340:VAL:HG12	1.88	0.56
1:Z:91:ARG:NH1	1:Z:94:GLU:OE1	2.39	0.56
1:b:278:TYR:HB2	1:b:290:VAL:HG23	1.88	0.56
1:p:171:LEU:HB3	1:p:174:PHE:HB2	1.88	0.56
1:p:304:PHE:HB3	1:p:321:THR:HB	1.87	0.56
1:A:86:ASN:OD1	1:A:90:GLN:NE2	2.38	0.55
1:B:64:ALA:HB1	1:B:150:GLY:H	1.71	0.55
1:C:386:THR:H	1:C:405:ASP:HB2	1.71	0.55
1:G:500:THR:HG22	1:l:125:ARG:NH2	2.21	0.55
1:H:316:ALA:HB2	1:u:288:PHE:HE2	1.70	0.55
1:I:317:SER:HG	1:v:284:LYS:H	1.54	0.55
1:K:155:GLU:CD	1:p:129:GLN:HE22	2.14	0.55
1:L:110:ASP:HA	1:L:177:ASN:HD22	1.71	0.55
1:O:290:VAL:HG11	1:O:296:ILE:HG23	1.87	0.55
1:Q:278:TYR:HE1	1:Q:292:ALA:HB3	1.71	0.55
1:R:157:ILE:HG12	1:R:496:ARG:HH21	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:355:LEU:HG	1:R:357:TYR:H	1.70	0.55
1:W:431:VAL:O	1:W:440:GLY:N	2.39	0.55
1:a:355:LEU:HB2	1:a:361:ALA:HB2	1.88	0.55
1:c:500:THR:O	1:c:504:LEU:HD23	2.05	0.55
1:h:211:PHE:HE2	1:h:426:THR:H	1.54	0.55
1:h:248:TYR:HE2	1:h:250:LYS:HG3	1.69	0.55
1:j:376:VAL:HA	1:j:379:VAL:HG12	1.87	0.55
1:j:383:SER:OG	1:j:405:ASP:O	2.24	0.55
1:k:282:THR:OG1	1:k:311:LEU:O	2.22	0.55
1:n:341:THR:HG22	1:n:350:SER:HA	1.87	0.55
1:o:370:MET:HE1	1:o:379:VAL:HG11	1.88	0.55
1:u:306:ASN:HD22	1:u:314:ASN:HB2	1.70	0.55
1:J:500:THR:HG22	1:o:125:ARG:NH2	2.21	0.55
1:L:421:LYS:NZ	1:L:423:ASN:O	2.33	0.55
1:M:523:TYR:HD2	1:v:554:VAL:HG11	1.70	0.55
1:O:402:THR:O	1:O:410:LEU:HD13	2.06	0.55
1:S:46:ALA:O	1:S:50:ILE:HG12	2.06	0.55
1:V:375:ALA:O	1:V:378:THR:OG1	2.19	0.55
1:X:148:GLN:NE2	1:X:153:ASP:OD1	2.38	0.55
1:Z:5:ILE:HG12	1:h:523:TYR:HE2	1.72	0.55
1:b:403:TRP:CD1	1:b:408:GLY:HA2	2.41	0.55
1:r:216:ALA:HA	1:r:403:TRP:CH2	2.41	0.55
1:t:306:ASN:HD22	1:t:314:ASN:HB2	1.71	0.55
1:u:148:GLN:NE2	1:u:150:GLY:O	2.40	0.55
1:v:441:GLN:HG2	1:v:445:ALA:HB3	1.88	0.55
1:A:91:ARG:NH1	1:A:94:GLU:OE1	2.38	0.55
1:B:296:ILE:HD13	1:B:328:VAL:HG21	1.87	0.55
1:E:421:LYS:NZ	1:E:423:ASN:O	2.32	0.55
1:G:40:SER:O	1:G:42:LYS:N	2.39	0.55
1:G:317:SER:HG	1:t:284:LYS:H	1.55	0.55
1:G:416:PHE:N	1:G:419:SER:O	2.38	0.55
1:P:74:LEU:HD22	1:P:159:LEU:HD21	1.88	0.55
1:Q:324:THR:HG23	1:Q:327:ASP:H	1.72	0.55
1:S:449:LYS:HE3	1:S:451:LEU:HD11	1.87	0.55
1:Z:431:VAL:O	1:Z:440:GLY:N	2.40	0.55
1:c:39:ASN:OD1	1:c:40:SER:N	2.39	0.55
1:e:278:TYR:HD1	1:e:344:GLY:HA3	1.71	0.55
1:k:383:SER:OG	1:k:405:ASP:O	2.24	0.55
1:n:370:MET:HE2	1:n:379:VAL:HG21	1.89	0.55
1:t:197:GLY:N	1:t:205:TYR:OH	2.38	0.55
1:O:157:ILE:HG21	1:O:497:LEU:HD21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:355:LEU:HG	1:V:357:TYR:H	1.70	0.55
1:W:355:LEU:HG	1:W:357:TYR:H	1.72	0.55
1:X:64:ALA:CB	1:X:150:GLY:H	2.19	0.55
1:k:64:ALA:CB	1:k:150:GLY:H	2.18	0.55
1:o:402:THR:O	1:o:410:LEU:HD13	2.07	0.55
1:s:304:PHE:HB3	1:s:321:THR:HB	1.87	0.55
1:E:520:ASP:OD1	1:n:6:ASN:HB2	2.06	0.55
1:F:39:ASN:OD1	1:F:40:SER:N	2.40	0.55
1:I:332:VAL:HG11	1:I:342:ILE:HD11	1.89	0.55
1:K:86:ASN:O	1:K:90:GLN:HG2	2.05	0.55
1:L:40:SER:O	1:L:42:LYS:N	2.39	0.55
1:L:86:ASN:O	1:L:90:GLN:HG2	2.06	0.55
1:M:155:GLU:CD	1:r:129:GLN:HE22	2.15	0.55
1:N:411:THR:O	1:N:414:GLN:NE2	2.38	0.55
1:P:187:ALA:H	1:P:451:LEU:HA	1.72	0.55
1:Q:62:THR:O	1:Q:66:ARG:HG2	2.07	0.55
1:S:58:VAL:HG13	1:S:508:VAL:HG13	1.88	0.55
1:V:64:ALA:HB1	1:V:150:GLY:H	1.71	0.55
1:X:91:ARG:NH1	1:X:94:GLU:OE1	2.40	0.55
1:f:22:GLN:OE1	1:r:2:ALA:N	2.40	0.55
1:i:282:THR:OG1	1:i:311:LEU:O	2.21	0.55
1:t:525:THR:O	1:t:529:ASN:ND2	2.39	0.55
1:v:171:LEU:C	1:v:173:GLY:H	2.15	0.55
1:A:125:ARG:HH21	1:P:500:THR:HG22	1.70	0.55
1:C:95:LEU:HD11	1:C:116:ILE:HG12	1.87	0.55
1:P:365:ASP:OD1	1:P:366:VAL:N	2.39	0.55
1:W:391:THR:OG1	1:W:400:ASN:OD1	2.24	0.55
1:Y:375:ALA:O	1:Y:378:THR:OG1	2.22	0.55
1:a:390:VAL:HG23	1:a:403:TRP:CH2	2.42	0.55
1:b:140:ASP:HA	1:b:163:GLU:HG3	1.89	0.55
1:i:6:ASN:HB2	1:q:520:ASP:OD2	2.06	0.55
1:o:39:ASN:C	1:o:39:ASN:ND2	2.55	0.55
1:p:48:MET:O	1:p:48:MET:HE3	2.07	0.55
1:r:471:ASP:HB3	1:r:474:LYS:HB2	1.88	0.55
1:t:333:GLY:H	1:t:337:ASN:HB2	1.70	0.55
1:D:129:GLN:HE22	1:F:155:GLU:CD	2.14	0.55
1:E:144:PRO:HB3	1:E:160:ASN:H	1.70	0.55
1:G:177:ASN:HD21	1:G:179:LYS:NZ	2.05	0.55
1:I:230:ALA:HB2	1:I:236:THR:HG23	1.87	0.55
1:L:144:PRO:HB2	1:L:158:THR:HG23	1.89	0.55
1:N:40:SER:O	1:N:42:LYS:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:334:THR:HG23	1:Q:355:LEU:HD23	1.89	0.55
1:S:375:ALA:O	1:S:378:THR:OG1	2.20	0.55
1:V:332:VAL:HG13	1:V:340:VAL:HG12	1.87	0.55
1:V:365:ASP:OD1	1:V:366:VAL:N	2.40	0.55
1:Z:38:ILE:HG12	1:Z:519:GLN:HA	1.87	0.55
1:b:37:ARG:NH1	1:b:44:ASP:OD2	2.37	0.55
1:d:59:ARG:NH2	1:l:90:GLN:HB3	2.22	0.55
1:l:332:VAL:HG11	1:l:342:ILE:HD11	1.89	0.55
1:o:230:ALA:HB2	1:o:236:THR:HG23	1.88	0.55
1:q:230:ALA:HB2	1:q:236:THR:HG23	1.89	0.55
1:A:113:GLN:NE2	1:A:176:VAL:H	2.03	0.55
1:E:281:SER:HA	1:E:286:ALA:HB3	1.89	0.55
1:I:345:THR:HB	1:I:347:TYR:CE1	2.41	0.55
1:J:500:THR:HG22	1:o:125:ARG:HH21	1.72	0.55
1:M:451:LEU:HD22	1:M:462:THR:HA	1.88	0.55
1:N:531:SER:O	1:N:535:ILE:HG12	2.07	0.55
1:P:88:HIS:NE2	1:P:122:ASP:OD2	2.39	0.55
1:R:449:LYS:HE3	1:R:451:LEU:HD11	1.89	0.55
1:T:386:THR:H	1:T:405:ASP:HB2	1.71	0.55
1:U:38:ILE:HG12	1:U:519:GLN:HA	1.89	0.55
1:V:38:ILE:HG12	1:V:519:GLN:HA	1.88	0.55
1:a:249:THR:HG22	1:a:366:VAL:HG22	1.88	0.55
1:e:253:ASP:HA	1:e:263:LEU:HD13	1.88	0.55
1:f:278:TYR:HB2	1:f:290:VAL:HG23	1.89	0.55
1:g:175:ASN:ND2	1:g:177:ASN:O	2.34	0.55
1:n:525:THR:O	1:n:529:ASN:ND2	2.39	0.55
1:p:333:GLY:H	1:p:337:ASN:HB2	1.71	0.55
1:q:91:ARG:HG2	1:q:119:ARG:NH2	2.21	0.55
1:q:411:THR:O	1:q:414:GLN:NE2	2.39	0.55
1:s:410:LEU:HG	1:s:413:ILE:H	1.72	0.55
1:t:230:ALA:HB2	1:t:236:THR:HG23	1.89	0.55
1:u:230:ALA:HB2	1:u:236:THR:HG23	1.88	0.55
1:v:307:ALA:O	1:v:311:LEU:N	2.24	0.55
1:C:434:ASP:OD1	1:C:435:ASN:N	2.40	0.55
1:E:304:PHE:HA	1:E:323:ALA:HB2	1.89	0.55
1:H:55:THR:O	1:H:59:ARG:HG3	2.07	0.55
1:I:155:GLU:CD	1:n:129:GLN:HE22	2.14	0.55
1:L:411:THR:O	1:L:414:GLN:NE2	2.40	0.55
1:P:189:VAL:HG23	1:P:205:TYR:HE2	1.71	0.55
1:V:42:LYS:NZ	1:d:498:GLU:OE1	2.38	0.55
1:W:91:ARG:NH1	1:W:94:GLU:OE1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:55:THR:HG22	1:Y:515:ARG:HH11	1.70	0.55
1:Y:92:ILE:HG22	1:Y:476:LEU:HD11	1.88	0.55
1:a:281:SER:HA	1:a:286:ALA:HB3	1.89	0.55
1:c:159:LEU:HB3	1:c:161:LEU:HD22	1.89	0.55
1:d:278:TYR:HD1	1:d:344:GLY:HA3	1.72	0.55
1:g:140:ASP:HA	1:g:163:GLU:HG3	1.88	0.55
1:h:394:ILE:O	1:h:398:ASP:N	2.40	0.55
1:i:386:THR:H	1:i:405:ASP:HB2	1.72	0.55
1:C:394:ILE:O	1:C:398:ASP:N	2.40	0.55
1:D:37:ARG:NH2	1:D:518:ILE:O	2.40	0.55
1:I:167:LYS:N	1:I:172:ASP:OD1	2.36	0.55
1:I:394:ILE:HG21	1:U:420:TYR:HB2	1.89	0.55
1:U:253:ASP:HA	1:U:263:LEU:HD12	1.89	0.55
1:U:296:ILE:HD13	1:U:328:VAL:HG21	1.89	0.55
1:V:91:ARG:NH1	1:V:94:GLU:OE1	2.40	0.55
1:V:403:TRP:CD1	1:V:408:GLY:HA2	2.43	0.55
1:W:38:ILE:HG12	1:W:519:GLN:HA	1.88	0.55
1:W:125:ARG:NH2	1:i:500:THR:HG22	2.22	0.55
1:X:38:ILE:HG12	1:X:519:GLN:HA	1.89	0.55
1:Z:296:ILE:HD13	1:Z:328:VAL:HG21	1.88	0.55
1:a:64:ALA:CB	1:a:150:GLY:H	2.20	0.55
1:b:394:ILE:O	1:b:398:ASP:N	2.40	0.55
1:k:386:THR:H	1:k:405:ASP:HB2	1.72	0.55
1:l:353:ASP:HB2	1:l:362:THR:HG22	1.89	0.55
1:r:333:GLY:H	1:r:337:ASN:HB2	1.70	0.55
1:r:393:ALA:HB3	1:r:398:ASP:HA	1.89	0.55
1:B:206:LYS:NZ	1:B:427:GLY:O	2.40	0.54
1:C:64:ALA:CB	1:C:150:GLY:H	2.20	0.54
1:D:441:GLN:HG2	1:D:445:ALA:HB3	1.88	0.54
1:J:523:TYR:HD2	1:s:554:VAL:HG11	1.72	0.54
1:R:64:ALA:HB1	1:R:150:GLY:H	1.72	0.54
1:W:206:LYS:NZ	1:W:427:GLY:O	2.39	0.54
1:Y:148:GLN:NE2	1:Y:153:ASP:OD1	2.39	0.54
1:j:211:PHE:HE2	1:j:426:THR:H	1.55	0.54
1:k:7:THR:HG1	1:s:516:SER:HG	1.34	0.54
1:B:118:GLN:O	1:a:496:ARG:HD2	2.07	0.54
1:B:403:TRP:CD1	1:B:408:GLY:HA2	2.42	0.54
1:E:40:SER:O	1:E:42:LYS:N	2.39	0.54
1:F:316:ALA:HB2	1:s:288:PHE:HE2	1.72	0.54
1:H:133:ASN:HD21	1:T:50:ILE:HD12	1.73	0.54
1:K:390:VAL:HG23	1:K:403:TRP:HH2	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:524:ALA:HB1	1:h:15:GLN:HG2	1.89	0.54
1:L:157:ILE:HG21	1:L:497:LEU:HD21	1.88	0.54
1:O:183:GLN:HG3	1:O:463:THR:HG22	1.90	0.54
1:R:296:ILE:HD13	1:R:328:VAL:HG21	1.90	0.54
1:S:230:ALA:HB2	1:S:236:THR:HG23	1.89	0.54
1:S:431:VAL:O	1:S:440:GLY:N	2.40	0.54
1:T:471:ASP:HB3	1:T:474:LYS:HD3	1.88	0.54
1:U:187:ALA:H	1:U:451:LEU:HA	1.72	0.54
1:U:189:VAL:HG23	1:U:205:TYR:CE2	2.42	0.54
1:U:365:ASP:OD1	1:U:366:VAL:N	2.40	0.54
1:X:287:SER:O	1:b:301:ASN:ND2	2.40	0.54
1:Z:64:ALA:HB1	1:Z:150:GLY:H	1.72	0.54
1:c:304:PHE:N	1:c:314:ASN:O	2.40	0.54
1:d:64:ALA:CB	1:d:150:GLY:H	2.20	0.54
1:i:59:ARG:NH2	1:q:90:GLN:HB3	2.22	0.54
1:j:317:SER:OG	1:j:321:THR:OG1	2.22	0.54
1:l:230:ALA:HB2	1:l:236:THR:HG23	1.89	0.54
1:o:525:THR:O	1:o:529:ASN:ND2	2.40	0.54
1:s:110:ASP:OD1	1:s:177:ASN:ND2	2.41	0.54
1:s:549:GLN:HB3	1:s:552:GLN:HG3	1.89	0.54
1:C:278:TYR:HD1	1:C:344:GLY:HA3	1.71	0.54
1:F:177:ASN:HD21	1:F:179:LYS:NZ	2.05	0.54
1:G:93:ARG:NH1	1:G:477:ASP:OD1	2.40	0.54
1:G:274:ILE:HG23	1:G:293:ALA:HA	1.89	0.54
1:K:40:SER:O	1:K:42:LYS:N	2.39	0.54
1:Q:431:VAL:O	1:Q:440:GLY:N	2.40	0.54
1:W:403:TRP:CD1	1:W:408:GLY:HA2	2.42	0.54
1:Z:391:THR:OG1	1:Z:400:ASN:OD1	2.23	0.54
1:c:212:ASN:HA	1:c:414:GLN:HG3	1.90	0.54
1:c:383:SER:OG	1:c:405:ASP:O	2.25	0.54
1:h:13:VAL:O	1:h:17:ASN:ND2	2.37	0.54
1:h:74:LEU:HD11	1:h:137:VAL:HG11	1.90	0.54
1:h:383:SER:OG	1:h:405:ASP:O	2.26	0.54
1:n:353:ASP:HB2	1:n:362:THR:HG22	1.90	0.54
1:n:429:VAL:HG12	1:n:442:TYR:HB3	1.90	0.54
1:u:211:PHE:HE2	1:u:426:THR:HG23	1.72	0.54
1:u:304:PHE:HB3	1:u:321:THR:HB	1.89	0.54
1:B:64:ALA:CB	1:B:150:GLY:H	2.20	0.54
1:E:230:ALA:HB2	1:E:236:THR:HG23	1.88	0.54
1:G:155:GLU:CD	1:l:129:GLN:HE22	2.16	0.54
1:J:93:ARG:NH1	1:J:477:ASP:OD1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:183:GLN:HG3	1:J:463:THR:HG22	1.90	0.54
1:M:38:ILE:HG13	1:M:38:ILE:O	2.08	0.54
1:O:394:ILE:HG22	1:O:396:THR:H	1.72	0.54
1:P:391:THR:OG1	1:P:400:ASN:OD1	2.24	0.54
1:R:230:ALA:HB2	1:R:236:THR:HG23	1.88	0.54
1:S:38:ILE:HG12	1:S:519:GLN:HA	1.88	0.54
1:T:22:GLN:NE2	1:f:2:ALA:O	2.39	0.54
1:U:64:ALA:HB1	1:U:150:GLY:H	1.73	0.54
1:W:55:THR:HG22	1:W:515:ARG:HH11	1.72	0.54
1:W:449:LYS:HE3	1:W:451:LEU:HD11	1.88	0.54
1:X:403:TRP:CD1	1:X:408:GLY:HA2	2.42	0.54
1:X:431:VAL:O	1:X:440:GLY:N	2.41	0.54
1:Z:206:LYS:NZ	1:Z:427:GLY:O	2.40	0.54
1:b:99:ALA:HB2	1:b:112:VAL:HG11	1.89	0.54
1:f:375:ALA:O	1:f:378:THR:OG1	2.23	0.54
1:h:178:GLY:HA2	1:h:468:LYS:HZ2	1.72	0.54
1:i:278:TYR:HD1	1:i:344:GLY:HA3	1.72	0.54
1:i:431:VAL:O	1:i:440:GLY:N	2.40	0.54
1:v:525:THR:O	1:v:529:ASN:ND2	2.40	0.54
1:B:88:HIS:NE2	1:B:122:ASP:OD2	2.40	0.54
1:E:86:ASN:O	1:E:90:GLN:HG2	2.07	0.54
1:F:192:VAL:HG12	1:F:458:LEU:HD11	1.89	0.54
1:H:183:GLN:HG3	1:H:463:THR:HG22	1.90	0.54
1:K:6:ASN:ND2	1:S:35:GLY:O	2.40	0.54
1:K:125:ARG:HH21	1:W:500:THR:HG22	1.69	0.54
1:L:38:ILE:O	1:L:38:ILE:HG13	2.08	0.54
1:V:419:SER:OG	1:V:421:LYS:NZ	2.40	0.54
1:V:431:VAL:O	1:V:440:GLY:N	2.40	0.54
1:W:332:VAL:HG13	1:W:340:VAL:HG12	1.89	0.54
1:W:493:VAL:O	1:W:497:LEU:HD23	2.07	0.54
1:Y:64:ALA:HB1	1:Y:150:GLY:H	1.73	0.54
1:a:394:ILE:CD1	1:m:419:SER:HB2	2.38	0.54
1:e:386:THR:H	1:e:405:ASP:HB2	1.72	0.54
1:g:431:VAL:O	1:g:440:GLY:N	2.40	0.54
1:m:352:ALA:HB3	1:m:362:THR:HG23	1.90	0.54
1:r:38:ILE:HD12	1:r:519:GLN:HA	1.90	0.54
1:u:520:ASP:OD1	1:u:521:ALA:N	2.40	0.54
1:F:40:SER:O	1:F:42:LYS:N	2.40	0.54
1:M:86:ASN:O	1:M:90:GLN:HG2	2.07	0.54
1:N:15:GLN:HG2	1:h:524:ALA:HB1	1.88	0.54
1:N:471:ASP:HB3	1:N:474:LYS:HB2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:187:ALA:H	1:R:451:LEU:HA	1.73	0.54
1:T:91:ARG:NH1	1:T:94:GLU:OE1	2.40	0.54
1:T:403:TRP:CD1	1:T:408:GLY:HA2	2.42	0.54
1:U:91:ARG:NH1	1:U:94:GLU:OE1	2.41	0.54
1:V:449:LYS:HE3	1:V:451:LEU:HD11	1.88	0.54
1:W:64:ALA:HB1	1:W:150:GLY:H	1.72	0.54
1:b:383:SER:OG	1:b:405:ASP:O	2.26	0.54
1:g:64:ALA:CB	1:g:150:GLY:H	2.21	0.54
1:g:175:ASN:HB3	1:g:469:THR:HG23	1.90	0.54
1:u:68:ALA:O	1:u:72:ILE:HG13	2.08	0.54
1:u:353:ASP:HB2	1:u:362:THR:HG22	1.90	0.54
1:C:403:TRP:CD1	1:C:408:GLY:HA2	2.43	0.54
1:F:167:LYS:N	1:F:172:ASP:OD2	2.35	0.54
1:H:332:VAL:HG11	1:H:342:ILE:HD11	1.88	0.54
1:I:7:THR:OG1	1:Q:516:SER:OG	2.17	0.54
1:I:288:PHE:HE2	1:v:316:ALA:HB2	1.72	0.54
1:K:84:GLU:HG2	1:W:503:ASN:HB2	1.90	0.54
1:K:192:VAL:HG12	1:K:458:LEU:HD11	1.89	0.54
1:K:296:ILE:HG13	1:K:328:VAL:HG21	1.90	0.54
1:M:6:ASN:ND2	1:U:35:GLY:O	2.39	0.54
1:M:21:SER:OG	1:M:537:GLN:OE1	2.24	0.54
1:P:493:VAL:O	1:P:497:LEU:HD23	2.07	0.54
1:U:401:ASN:HB3	1:U:410:LEU:HD21	1.90	0.54
1:V:277:SER:OG	1:V:289:ASP:OD1	2.22	0.54
1:W:88:HIS:NE2	1:W:122:ASP:OD2	2.39	0.54
1:Y:40:SER:O	1:Y:42:LYS:N	2.41	0.54
1:Z:40:SER:O	1:Z:42:LYS:N	2.41	0.54
1:Z:253:ASP:HA	1:Z:263:LEU:HD12	1.89	0.54
1:c:281:SER:HA	1:c:286:ALA:HB3	1.88	0.54
1:g:278:TYR:HD1	1:g:344:GLY:HA3	1.73	0.54
1:i:175:ASN:ND2	1:i:177:ASN:O	2.35	0.54
1:k:59:ARG:NH2	1:s:90:GLN:HB3	2.23	0.54
1:l:311:LEU:HD13	1:l:331:SER:HB2	1.89	0.54
1:o:410:LEU:HD23	1:o:413:ILE:HB	1.90	0.54
1:p:311:LEU:HD13	1:p:331:SER:HB2	1.89	0.54
1:q:394:ILE:HB	1:q:397:THR:HG22	1.90	0.54
1:u:192:VAL:O	1:u:205:TYR:OH	2.22	0.54
1:v:230:ALA:HB2	1:v:236:THR:HG23	1.88	0.54
1:A:317:SER:HG	1:q:284:LYS:H	1.54	0.54
1:B:91:ARG:NH1	1:B:94:GLU:OE1	2.41	0.54
1:F:288:PHE:HE2	1:s:316:ALA:HB2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:531:SER:O	1:F:535:ILE:HG12	2.08	0.54
1:R:431:VAL:O	1:R:440:GLY:N	2.39	0.54
1:S:118:GLN:O	1:e:496:ARG:HD2	2.08	0.54
1:a:394:ILE:O	1:a:398:ASP:N	2.41	0.54
1:d:171:LEU:HD22	1:d:174:PHE:CD1	2.42	0.54
1:d:278:TYR:HB2	1:d:290:VAL:HG23	1.88	0.54
1:f:55:THR:O	1:f:59:ARG:HG2	2.07	0.54
1:h:32:LEU:HB3	1:t:543:VAL:HG21	1.89	0.54
1:m:230:ALA:HB2	1:m:236:THR:HG23	1.89	0.54
1:r:169:LEU:HD23	1:r:479:ALA:HB1	1.89	0.54
1:r:304:PHE:O	1:r:314:ASN:N	2.40	0.54
1:r:317:SER:HA	1:r:321:THR:HG21	1.89	0.54
1:A:37:ARG:N	1:A:519:GLN:O	2.41	0.54
1:D:311:LEU:HD13	1:D:331:SER:HB2	1.90	0.54
1:E:88:HIS:O	1:E:92:ILE:HD12	2.08	0.54
1:E:303:ALA:HA	1:E:315:ASP:HB3	1.90	0.54
1:E:441:GLN:HB3	1:E:448:ALA:H	1.73	0.54
1:J:38:ILE:O	1:J:38:ILE:HG13	2.08	0.54
1:J:110:ASP:HA	1:J:177:ASN:HD22	1.73	0.54
1:M:88:HIS:O	1:M:92:ILE:HD12	2.08	0.54
1:N:91:ARG:NH1	1:N:94:GLU:OE1	2.40	0.54
1:N:451:LEU:HD22	1:N:462:THR:HA	1.89	0.54
1:P:332:VAL:HG13	1:P:340:VAL:HG12	1.89	0.54
1:Q:391:THR:OG1	1:Q:400:ASN:OD1	2.23	0.54
1:R:55:THR:HG22	1:R:515:ARG:HH11	1.72	0.54
1:S:64:ALA:CB	1:S:150:GLY:H	2.21	0.54
1:T:38:ILE:HG12	1:T:519:GLN:HA	1.89	0.54
1:T:40:SER:O	1:T:42:LYS:N	2.41	0.54
1:Y:46:ALA:O	1:Y:50:ILE:HG12	2.07	0.54
1:c:71:GLY:HA3	1:c:147:LEU:HD21	1.90	0.54
1:f:253:ASP:HA	1:f:263:LEU:HD13	1.90	0.54
1:f:390:VAL:HG23	1:f:403:TRP:CH2	2.43	0.54
1:g:59:ARG:NH2	1:o:90:GLN:HB3	2.23	0.54
1:j:212:ASN:HA	1:j:414:GLN:HG3	1.89	0.54
1:q:304:PHE:HB3	1:q:321:THR:HB	1.90	0.54
1:r:211:PHE:HE1	1:r:426:THR:HG23	1.73	0.54
1:B:332:VAL:HG13	1:B:340:VAL:HG12	1.89	0.54
1:C:79:GLU:OE2	1:R:41:ALA:N	2.41	0.54
1:H:441:GLN:OE1	1:H:446:ASP:N	2.41	0.54
1:L:84:GLU:HG2	1:X:503:ASN:HB2	1.89	0.54
1:Q:183:GLN:HA	1:Q:463:THR:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:230:ALA:HB2	1:Q:236:THR:HG23	1.88	0.54
1:R:88:HIS:NE2	1:R:122:ASP:OD2	2.41	0.54
1:S:279:GLU:HB2	1:S:343:GLY:HA3	1.90	0.54
1:V:211:PHE:CD1	1:V:416:PHE:HA	2.43	0.54
1:V:393:ALA:HB3	1:V:398:ASP:HA	1.90	0.54
1:X:88:HIS:NE2	1:X:122:ASP:OD2	2.41	0.54
1:c:253:ASP:HA	1:c:263:LEU:HD13	1.89	0.54
1:c:278:TYR:HD1	1:c:344:GLY:HA3	1.73	0.54
1:d:531:SER:O	1:d:535:ILE:HG12	2.08	0.54
1:e:317:SER:OG	1:e:321:THR:OG1	2.22	0.54
1:h:212:ASN:HA	1:h:414:GLN:HG3	1.89	0.54
1:l:402:THR:O	1:l:410:LEU:HD13	2.07	0.54
1:m:370:MET:HE3	1:m:379:VAL:HB	1.90	0.54
1:o:37:ARG:NH2	1:o:518:ILE:O	2.41	0.54
1:o:311:LEU:HD13	1:o:331:SER:HB2	1.90	0.54
1:q:148:GLN:NE2	1:q:150:GLY:O	2.41	0.54
1:s:227:ASN:O	1:s:239:TYR:N	2.35	0.54
1:s:230:ALA:HB2	1:s:236:THR:HG23	1.90	0.54
1:v:333:GLY:H	1:v:337:ASN:HB2	1.73	0.54
1:I:6:ASN:ND2	1:Q:35:GLY:O	2.39	0.53
1:I:38:ILE:O	1:I:38:ILE:HG13	2.08	0.53
1:J:298:ILE:HG23	1:J:301:ASN:HB2	1.89	0.53
1:N:326:ASP:OD1	1:N:327:ASP:N	2.41	0.53
1:Q:450:VAL:HG21	1:Q:458:LEU:HD12	1.90	0.53
1:Q:493:VAL:O	1:Q:497:LEU:HD23	2.08	0.53
1:S:324:THR:HG23	1:S:327:ASP:H	1.74	0.53
1:S:332:VAL:HG13	1:S:340:VAL:HG12	1.89	0.53
1:T:375:ALA:O	1:T:378:THR:OG1	2.20	0.53
1:U:38:ILE:HG13	1:U:38:ILE:O	2.08	0.53
1:b:159:LEU:HB3	1:b:161:LEU:HD22	1.90	0.53
1:e:40:SER:O	1:e:42:LYS:N	2.41	0.53
1:e:64:ALA:CB	1:e:150:GLY:H	2.21	0.53
1:e:390:VAL:HG23	1:e:403:TRP:CH2	2.43	0.53
1:f:395:ALA:HA	1:f:398:ASP:HB2	1.90	0.53
1:A:316:ALA:HB2	1:q:288:PHE:HE2	1.73	0.53
1:E:288:PHE:HB3	1:E:290:VAL:HG23	1.89	0.53
1:H:451:LEU:HD22	1:H:462:THR:HA	1.90	0.53
1:J:290:VAL:HG11	1:J:296:ILE:HG23	1.90	0.53
1:K:38:ILE:HG13	1:K:38:ILE:O	2.08	0.53
1:N:110:ASP:HA	1:N:177:ASN:HD22	1.71	0.53
1:N:230:ALA:HB2	1:N:236:THR:HG23	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:55:THR:O	1:O:59:ARG:HG3	2.08	0.53
1:T:296:ILE:HD13	1:T:328:VAL:HG21	1.90	0.53
1:W:38:ILE:O	1:W:38:ILE:HG13	2.08	0.53
1:b:401:ASN:HB3	1:b:410:LEU:HD21	1.89	0.53
1:c:175:ASN:ND2	1:c:177:ASN:O	2.41	0.53
1:j:431:VAL:O	1:j:440:GLY:N	2.40	0.53
1:s:95:LEU:HD12	1:s:112:VAL:HG13	1.90	0.53
1:s:352:ALA:HB3	1:s:362:THR:HG23	1.88	0.53
1:t:216:ALA:HA	1:t:403:TRP:CH2	2.43	0.53
1:A:523:TYR:HE1	1:m:5:ILE:HG12	1.74	0.53
1:F:93:ARG:HH21	1:o:151:ALA:HB1	1.72	0.53
1:H:420:TYR:H	1:T:394:ILE:HG21	1.73	0.53
1:J:88:HIS:O	1:J:92:ILE:HD12	2.09	0.53
1:J:307:ALA:O	1:J:311:LEU:N	2.29	0.53
1:K:421:LYS:NZ	1:K:423:ASN:O	2.33	0.53
1:L:88:HIS:O	1:L:92:ILE:HD12	2.08	0.53
1:L:441:GLN:OE1	1:L:446:ASP:N	2.42	0.53
1:N:155:GLU:CD	1:s:129:GLN:HE22	2.16	0.53
1:Q:38:ILE:HG12	1:Q:519:GLN:HA	1.90	0.53
1:R:311:LEU:HB3	1:R:331:SER:HB2	1.90	0.53
1:d:376:VAL:HA	1:d:379:VAL:HG12	1.89	0.53
1:g:375:ALA:O	1:g:378:THR:OG1	2.23	0.53
1:g:531:SER:O	1:g:535:ILE:HG12	2.07	0.53
1:i:394:ILE:O	1:i:398:ASP:N	2.41	0.53
1:j:278:TYR:HD1	1:j:344:GLY:HA3	1.74	0.53
1:r:171:LEU:HB3	1:r:174:PHE:HB2	1.90	0.53
1:t:410:LEU:HG	1:t:413:ILE:H	1.73	0.53
1:D:91:ARG:HG2	1:D:119:ARG:NH2	2.23	0.53
1:G:183:GLN:HG3	1:G:463:THR:HG22	1.90	0.53
1:M:145:LEU:HB2	1:M:159:LEU:HD12	1.90	0.53
1:Q:249:THR:HB	1:Q:366:VAL:HG22	1.90	0.53
1:R:450:VAL:HG21	1:R:458:LEU:HD12	1.89	0.53
1:S:484:ASP:HA	1:S:487:THR:HG22	1.89	0.53
1:T:493:VAL:O	1:T:497:LEU:HD23	2.08	0.53
1:U:157:ILE:HG12	1:U:496:ARG:NH2	2.24	0.53
1:U:493:VAL:O	1:U:497:LEU:HD23	2.08	0.53
1:W:324:THR:HG23	1:W:327:ASP:H	1.73	0.53
1:X:391:THR:OG1	1:X:400:ASN:OD1	2.21	0.53
1:Y:38:ILE:O	1:Y:38:ILE:HG13	2.09	0.53
1:a:531:SER:O	1:a:535:ILE:HG12	2.09	0.53
1:b:64:ALA:CB	1:b:150:GLY:H	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:171:LEU:C	1:c:173:GLY:H	2.17	0.53
1:e:431:VAL:O	1:e:440:GLY:N	2.41	0.53
1:i:376:VAL:HA	1:i:379:VAL:HG12	1.89	0.53
1:o:192:VAL:O	1:o:205:TYR:OH	2.22	0.53
1:o:279:GLU:O	1:o:343:GLY:N	2.39	0.53
1:r:307:ALA:O	1:r:311:LEU:N	2.24	0.53
1:t:195:GLN:NE2	1:t:458:LEU:HG	2.22	0.53
1:t:411:THR:O	1:t:414:GLN:NE2	2.41	0.53
1:E:311:LEU:HB3	1:E:331:SER:OG	2.09	0.53
1:E:531:SER:O	1:E:535:ILE:HG12	2.09	0.53
1:H:192:VAL:HG12	1:H:458:LEU:HD11	1.91	0.53
1:I:177:ASN:HD21	1:I:179:LYS:NZ	2.07	0.53
1:J:441:GLN:OE1	1:J:446:ASP:N	2.41	0.53
1:J:531:SER:O	1:J:535:ILE:HG12	2.07	0.53
1:P:26:GLY:O	1:P:30:GLU:HG3	2.08	0.53
1:P:62:THR:O	1:P:66:ARG:HG2	2.08	0.53
1:P:253:ASP:HA	1:P:263:LEU:HD12	1.91	0.53
1:P:385:ILE:HA	1:P:405:ASP:HB2	1.89	0.53
1:W:316:ALA:HA	1:a:286:ALA:HA	1.89	0.53
1:W:450:VAL:HG21	1:W:458:LEU:HD12	1.90	0.53
1:Y:450:VAL:HG21	1:Y:458:LEU:HD12	1.91	0.53
1:Z:251:THR:HG22	1:Z:364:ALA:HB2	1.90	0.53
1:g:394:ILE:O	1:g:398:ASP:N	2.41	0.53
1:h:6:ASN:HB2	1:p:520:ASP:OD2	2.07	0.53
1:l:91:ARG:HG2	1:l:119:ARG:NH2	2.23	0.53
1:m:192:VAL:HB	1:m:205:TYR:CE2	2.43	0.53
1:m:216:ALA:HA	1:m:403:TRP:CH2	2.44	0.53
1:q:307:ALA:O	1:q:311:LEU:N	2.23	0.53
1:A:420:TYR:H	1:P:394:ILE:HG21	1.74	0.53
1:C:509:ASN:CG	1:R:16:ASN:HD21	2.16	0.53
1:E:192:VAL:HG12	1:E:458:LEU:HD11	1.90	0.53
1:H:6:ASN:ND2	1:P:35:GLY:O	2.41	0.53
1:J:110:ASP:HA	1:J:177:ASN:ND2	2.24	0.53
1:J:113:GLN:NE2	1:J:176:VAL:H	2.06	0.53
1:J:333:GLY:H	1:J:337:ASN:HB2	1.73	0.53
1:J:411:THR:O	1:J:414:GLN:NE2	2.40	0.53
1:L:6:ASN:HD21	1:T:35:GLY:C	2.16	0.53
1:M:126:ILE:HG12	1:Y:503:ASN:ND2	2.24	0.53
1:R:38:ILE:O	1:R:38:ILE:HG13	2.09	0.53
1:R:171:LEU:C	1:R:173:GLY:H	2.17	0.53
1:S:206:LYS:NZ	1:S:427:GLY:O	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:251:THR:HG22	1:U:364:ALA:HB2	1.91	0.53
1:W:471:ASP:HB3	1:W:474:LYS:HD3	1.91	0.53
1:Z:38:ILE:O	1:Z:38:ILE:HG13	2.09	0.53
1:Z:324:THR:HG23	1:Z:327:ASP:H	1.74	0.53
1:a:396:THR:O	1:m:399:SER:OG	2.25	0.53
1:c:125:ARG:NH2	1:o:500:THR:HG22	2.23	0.53
1:d:375:ALA:O	1:d:378:THR:OG1	2.22	0.53
1:f:59:ARG:HG3	1:n:94:GLU:OE1	2.09	0.53
1:g:212:ASN:HA	1:g:414:GLN:HG3	1.90	0.53
1:i:248:TYR:HE2	1:i:250:LYS:HG3	1.74	0.53
1:k:253:ASP:HA	1:k:263:LEU:HD13	1.90	0.53
1:n:37:ARG:NH2	1:n:518:ILE:O	2.41	0.53
1:p:91:ARG:HG2	1:p:119:ARG:NH2	2.23	0.53
1:A:88:HIS:O	1:A:92:ILE:HD12	2.09	0.53
1:F:288:PHE:CE2	1:s:316:ALA:HB2	2.44	0.53
1:G:500:THR:HG22	1:l:125:ARG:HH21	1.72	0.53
1:H:88:HIS:O	1:H:92:ILE:HD12	2.09	0.53
1:K:88:HIS:O	1:K:92:ILE:HD12	2.08	0.53
1:K:177:ASN:HD21	1:K:179:LYS:NZ	2.06	0.53
1:L:531:SER:O	1:L:535:ILE:HG12	2.08	0.53
1:N:227:ASN:O	1:N:239:TYR:N	2.29	0.53
1:P:471:ASP:HB3	1:P:474:LYS:HD3	1.90	0.53
1:R:277:SER:OG	1:R:289:ASP:OD1	2.25	0.53
1:T:171:LEU:C	1:T:173:GLY:H	2.17	0.53
1:T:253:ASP:HA	1:T:263:LEU:HD12	1.91	0.53
1:V:58:VAL:HG13	1:V:508:VAL:HG13	1.89	0.53
1:W:40:SER:O	1:W:42:LYS:N	2.41	0.53
1:d:98:GLN:HG2	1:d:104:TYR:HE2	1.74	0.53
1:e:125:ARG:NH2	1:q:500:THR:HG22	2.23	0.53
1:g:98:GLN:HG2	1:g:104:TYR:HE2	1.74	0.53
1:h:355:LEU:HB2	1:h:361:ALA:HB2	1.91	0.53
1:n:195:GLN:NE2	1:n:458:LEU:HG	2.23	0.53
1:o:352:ALA:HB3	1:o:362:THR:HG23	1.90	0.53
1:v:228:THR:HG22	1:v:238:THR:HG23	1.91	0.53
1:v:304:PHE:HB3	1:v:321:THR:HB	1.90	0.53
1:B:471:ASP:HB3	1:B:474:LYS:HD3	1.91	0.53
1:B:500:THR:O	1:B:504:LEU:HD23	2.09	0.53
1:H:113:GLN:NE2	1:H:176:VAL:H	2.07	0.53
1:H:274:ILE:HG23	1:H:293:ALA:HA	1.91	0.53
1:H:524:ALA:HB1	1:e:15:GLN:HG2	1.89	0.53
1:I:157:ILE:HG21	1:I:497:LEU:HD21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:175:ASN:ND2	1:K:467:ASP:O	2.42	0.53
1:L:420:TYR:H	1:X:394:ILE:HG21	1.74	0.53
1:P:206:LYS:NZ	1:P:427:GLY:O	2.41	0.53
1:S:38:ILE:HG13	1:S:38:ILE:O	2.09	0.53
1:S:386:THR:H	1:S:405:ASP:HB2	1.73	0.53
1:S:395:ALA:HA	1:S:398:ASP:HB2	1.90	0.53
1:T:38:ILE:O	1:T:38:ILE:HG13	2.08	0.53
1:T:118:GLN:O	1:f:496:ARG:HD2	2.09	0.53
1:T:125:ARG:NH2	1:f:500:THR:HG22	2.24	0.53
1:U:37:ARG:NH2	1:U:518:ILE:O	2.42	0.53
1:W:249:THR:HB	1:W:366:VAL:HG22	1.89	0.53
1:W:500:THR:O	1:W:504:LEU:HD23	2.09	0.53
1:X:312:THR:HB	1:b:316:ALA:HB3	1.90	0.53
1:d:125:ARG:NH2	1:p:500:THR:HG22	2.24	0.53
1:e:376:VAL:HA	1:e:379:VAL:HG12	1.90	0.53
1:g:390:VAL:HG23	1:g:403:TRP:CH2	2.44	0.53
1:h:98:GLN:HG2	1:h:104:TYR:HE2	1.74	0.53
1:k:171:LEU:C	1:k:173:GLY:H	2.16	0.53
1:v:192:VAL:O	1:v:205:TYR:OH	2.23	0.53
1:A:441:GLN:OE1	1:A:446:ASP:N	2.42	0.53
1:F:37:ARG:N	1:F:519:GLN:O	2.42	0.53
1:I:88:HIS:O	1:I:92:ILE:HD12	2.09	0.53
1:J:254:THR:HG22	1:J:362:THR:HB	1.90	0.53
1:P:38:ILE:HG13	1:P:38:ILE:O	2.09	0.53
1:R:40:SER:O	1:R:42:LYS:N	2.42	0.53
1:S:157:ILE:HG23	1:S:496:ARG:HH21	1.73	0.53
1:U:118:GLN:O	1:g:496:ARG:HD2	2.08	0.53
1:V:187:ALA:H	1:V:451:LEU:HA	1.74	0.53
1:V:253:ASP:HA	1:V:263:LEU:HD12	1.89	0.53
1:X:38:ILE:HG13	1:X:38:ILE:O	2.09	0.53
1:Y:393:ALA:HB3	1:Y:398:ASP:HA	1.91	0.53
1:a:212:ASN:HA	1:a:414:GLN:HG3	1.91	0.53
1:c:95:LEU:HD11	1:c:116:ILE:HG12	1.89	0.53
1:f:461:GLU:OE2	1:f:463:THR:OG1	2.20	0.53
1:g:40:SER:O	1:g:42:LYS:N	2.42	0.53
1:h:59:ARG:NH2	1:p:90:GLN:HB3	2.24	0.53
1:h:175:ASN:HB3	1:h:469:THR:HG23	1.91	0.53
1:k:40:SER:O	1:k:42:LYS:N	2.42	0.53
1:r:304:PHE:HB3	1:r:321:THR:HB	1.90	0.53
1:A:304:PHE:HA	1:A:323:ALA:HB2	1.89	0.53
1:C:281:SER:HA	1:C:286:ALA:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:301:ASN:ND2	1:V:287:SER:O	2.41	0.53
1:E:38:ILE:HD12	1:E:48:MET:HA	1.91	0.53
1:F:274:ILE:HG23	1:F:293:ALA:HA	1.91	0.53
1:R:118:GLN:O	1:d:496:ARG:HD2	2.09	0.53
1:S:334:THR:HG23	1:S:355:LEU:HD23	1.91	0.53
1:S:471:ASP:HB3	1:S:474:LYS:HD3	1.90	0.53
1:S:493:VAL:O	1:S:497:LEU:HD23	2.09	0.53
1:T:404:VAL:HB	1:T:407:LYS:HB2	1.90	0.53
1:U:249:THR:HB	1:U:366:VAL:HG22	1.91	0.53
1:V:118:GLN:O	1:h:496:ARG:HD2	2.08	0.53
1:a:403:TRP:CD1	1:a:408:GLY:HA2	2.44	0.53
1:b:253:ASP:HA	1:b:263:LEU:HD13	1.90	0.53
1:b:390:VAL:HG23	1:b:403:TRP:CH2	2.44	0.53
1:c:394:ILE:O	1:c:398:ASP:N	2.42	0.53
1:u:525:THR:O	1:u:529:ASN:ND2	2.42	0.53
1:B:493:VAL:O	1:B:497:LEU:HD23	2.09	0.52
1:E:13:VAL:O	1:E:17:ASN:ND2	2.33	0.52
1:E:407:LYS:HZ3	1:E:409:GLU:HB3	1.74	0.52
1:F:228:THR:HA	1:F:238:THR:HA	1.91	0.52
1:F:314:ASN:HA	1:s:314:ASN:ND2	2.24	0.52
1:F:315:ASP:H	1:s:314:ASN:ND2	2.02	0.52
1:G:88:HIS:O	1:G:92:ILE:HD12	2.09	0.52
1:G:531:SER:O	1:G:535:ILE:HG12	2.09	0.52
1:K:212:ASN:HA	1:K:414:GLN:HG3	1.90	0.52
1:N:133:ASN:HD21	1:Z:50:ILE:HD12	1.74	0.52
1:O:398:ASP:OD1	1:O:399:SER:N	2.39	0.52
1:O:407:LYS:HZ3	1:O:409:GLU:HB3	1.74	0.52
1:P:189:VAL:HG23	1:P:205:TYR:CE2	2.44	0.52
1:R:64:ALA:CB	1:R:150:GLY:H	2.22	0.52
1:R:290:VAL:HG12	1:R:298:ILE:HG12	1.91	0.52
1:S:40:SER:O	1:S:42:LYS:N	2.42	0.52
1:S:125:ARG:NH2	1:e:500:THR:HG22	2.24	0.52
1:S:251:THR:HG22	1:S:364:ALA:HB2	1.91	0.52
1:X:296:ILE:HD13	1:X:328:VAL:HG21	1.89	0.52
1:Y:332:VAL:HG13	1:Y:340:VAL:HG12	1.90	0.52
1:b:125:ARG:NH2	1:n:500:THR:HG22	2.23	0.52
1:d:175:ASN:ND2	1:d:177:ASN:O	2.41	0.52
1:e:98:GLN:HG2	1:e:104:TYR:HE2	1.73	0.52
1:f:531:SER:O	1:f:535:ILE:HG12	2.09	0.52
1:h:125:ARG:NH2	1:t:500:THR:HG22	2.24	0.52
1:i:403:TRP:CD1	1:i:408:GLY:HA2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:394:ILE:O	1:j:398:ASP:N	2.41	0.52
1:A:177:ASN:HD21	1:A:179:LYS:NZ	2.06	0.52
1:B:77:THR:HG22	1:a:510:ASN:HB3	1.91	0.52
1:E:38:ILE:HG13	1:E:38:ILE:O	2.09	0.52
1:F:38:ILE:HG13	1:F:38:ILE:O	2.10	0.52
1:J:177:ASN:HD21	1:J:179:LYS:NZ	2.08	0.52
1:K:420:TYR:H	1:W:394:ILE:HG21	1.75	0.52
1:M:420:TYR:H	1:Y:394:ILE:HG21	1.73	0.52
1:P:125:ARG:NH2	1:b:500:THR:HG22	2.24	0.52
1:Q:26:GLY:O	1:Q:30:GLU:HG3	2.10	0.52
1:R:91:ARG:NH1	1:R:94:GLU:OE1	2.41	0.52
1:S:22:GLN:NE2	1:e:2:ALA:O	2.42	0.52
1:T:393:ALA:HB3	1:T:398:ASP:HA	1.91	0.52
1:W:22:GLN:HB2	1:W:537:GLN:HE22	1.74	0.52
1:X:55:THR:HG22	1:X:515:ARG:HH11	1.74	0.52
1:a:140:ASP:HA	1:a:163:GLU:HG3	1.90	0.52
1:a:175:ASN:ND2	1:a:177:ASN:O	2.39	0.52
1:a:253:ASP:HA	1:a:263:LEU:HD13	1.91	0.52
1:c:394:ILE:CD1	1:o:419:SER:HB2	2.40	0.52
1:m:311:LEU:HD13	1:m:331:SER:HB2	1.91	0.52
1:n:230:ALA:HB2	1:n:236:THR:HG23	1.90	0.52
1:o:68:ALA:O	1:o:72:ILE:HG13	2.09	0.52
1:r:402:THR:O	1:r:410:LEU:HD13	2.10	0.52
1:u:216:ALA:HA	1:u:403:TRP:CH2	2.44	0.52
1:v:197:GLY:N	1:v:205:TYR:OH	2.37	0.52
1:v:410:LEU:HG	1:v:413:ILE:H	1.75	0.52
1:A:246:PHE:H	1:A:371:GLY:HA2	1.74	0.52
1:C:288:PHE:CZ	1:V:316:ALA:HB2	2.44	0.52
1:D:353:ASP:HB2	1:D:362:THR:HG22	1.90	0.52
1:G:38:ILE:O	1:G:38:ILE:HG13	2.09	0.52
1:G:157:ILE:HG21	1:G:497:LEU:HD21	1.90	0.52
1:G:411:THR:O	1:G:414:GLN:NE2	2.42	0.52
1:H:110:ASP:HA	1:H:177:ASN:ND2	2.24	0.52
1:I:6:ASN:HD21	1:Q:35:GLY:C	2.17	0.52
1:I:413:ILE:HD12	1:U:396:THR:HG22	1.91	0.52
1:K:157:ILE:HG21	1:K:497:LEU:HD21	1.91	0.52
1:Q:38:ILE:O	1:Q:38:ILE:HG13	2.09	0.52
1:S:249:THR:HB	1:S:366:VAL:HG22	1.90	0.52
1:Y:118:GLN:O	1:k:496:ARG:HD2	2.08	0.52
1:e:504:LEU:O	1:e:508:VAL:HG23	2.09	0.52
1:f:125:ARG:NH2	1:r:500:THR:HG22	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:504:LEU:O	1:f:508:VAL:HG23	2.09	0.52
1:h:138:LEU:HD11	1:h:164:ILE:HD12	1.91	0.52
1:o:333:GLY:H	1:o:337:ASN:HB2	1.73	0.52
1:p:370:MET:HE2	1:p:379:VAL:HG21	1.90	0.52
1:p:525:THR:O	1:p:529:ASN:ND2	2.42	0.52
1:q:441:GLN:HG2	1:q:445:ALA:HB3	1.91	0.52
1:r:171:LEU:C	1:r:173:GLY:H	2.18	0.52
1:A:183:GLN:HG3	1:A:463:THR:HG22	1.92	0.52
1:D:352:ALA:HB3	1:D:362:THR:HG23	1.89	0.52
1:E:110:ASP:HA	1:E:177:ASN:ND2	2.24	0.52
1:E:451:LEU:HD22	1:E:462:THR:HA	1.89	0.52
1:H:38:ILE:HG13	1:H:38:ILE:O	2.08	0.52
1:H:304:PHE:HB2	1:H:314:ASN:O	2.09	0.52
1:I:290:VAL:HG11	1:I:296:ILE:HG23	1.92	0.52
1:R:92:ILE:HG22	1:R:476:LEU:HD11	1.91	0.52
1:T:391:THR:OG1	1:T:400:ASN:OD1	2.22	0.52
1:U:40:SER:O	1:U:42:LYS:N	2.42	0.52
1:U:334:THR:HG23	1:U:355:LEU:HD23	1.91	0.52
1:V:210:THR:C	1:V:211:PHE:HD2	2.17	0.52
1:V:334:THR:HG23	1:V:355:LEU:HD23	1.91	0.52
1:W:312:THR:HB	1:a:316:ALA:HB3	1.91	0.52
1:h:253:ASP:HA	1:h:263:LEU:HD13	1.90	0.52
1:i:29:ILE:HD11	1:i:530:MET:HE3	1.91	0.52
1:l:37:ARG:NH2	1:l:518:ILE:O	2.43	0.52
1:s:40:SER:O	1:s:42:LYS:N	2.42	0.52
1:u:195:GLN:NE2	1:u:458:LEU:HG	2.24	0.52
1:D:429:VAL:HG12	1:D:442:TYR:HB3	1.91	0.52
1:E:420:TYR:H	1:Q:394:ILE:HG21	1.73	0.52
1:F:88:HIS:O	1:F:92:ILE:HD12	2.09	0.52
1:F:325:LEU:HD23	1:F:329:LEU:HD23	1.92	0.52
1:J:192:VAL:HG12	1:J:458:LEU:HD11	1.91	0.52
1:P:118:GLN:O	1:b:496:ARG:HD2	2.09	0.52
1:P:324:THR:HG23	1:P:327:ASP:H	1.74	0.52
1:Q:118:GLN:O	1:c:496:ARG:HD2	2.09	0.52
1:Q:206:LYS:NZ	1:Q:427:GLY:O	2.43	0.52
1:S:55:THR:HG22	1:S:515:ARG:HH11	1.74	0.52
1:S:311:LEU:HB3	1:S:331:SER:HB2	1.91	0.52
1:X:40:SER:O	1:X:42:LYS:N	2.42	0.52
1:Z:4:VAL:HG21	1:h:520:ASP:CG	2.35	0.52
1:e:531:SER:O	1:e:535:ILE:HG12	2.10	0.52
1:g:401:ASN:HB3	1:g:410:LEU:HD21	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:95:LEU:HD11	1:i:116:ILE:HG12	1.91	0.52
1:i:155:GLU:OE1	1:i:155:GLU:N	2.43	0.52
1:j:278:TYR:HB2	1:j:290:VAL:HG23	1.91	0.52
1:m:55:THR:O	1:m:59:ARG:HG2	2.09	0.52
1:o:297:THR:OG1	1:o:301:ASN:O	2.27	0.52
1:s:91:ARG:HG2	1:s:119:ARG:NH2	2.24	0.52
1:t:297:THR:OG1	1:t:301:ASN:O	2.27	0.52
1:A:350:SER:N	1:A:364:ALA:O	2.43	0.52
1:I:86:ASN:HD21	1:r:52:ASN:ND2	2.08	0.52
1:N:88:HIS:O	1:N:92:ILE:HD12	2.10	0.52
1:P:334:THR:HG23	1:P:355:LEU:HD23	1.92	0.52
1:Q:40:SER:O	1:Q:42:LYS:N	2.42	0.52
1:U:403:TRP:HD1	1:U:404:VAL:O	1.92	0.52
1:U:431:VAL:O	1:U:440:GLY:N	2.42	0.52
1:V:38:ILE:HG13	1:V:38:ILE:O	2.09	0.52
1:W:315:ASP:OD1	1:W:315:ASP:N	2.39	0.52
1:X:355:LEU:HG	1:X:357:TYR:H	1.75	0.52
1:Z:148:GLN:NE2	1:Z:153:ASP:OD1	2.43	0.52
1:Z:316:ALA:HA	1:d:286:ALA:HA	1.91	0.52
1:c:288:PHE:HB3	1:c:290:VAL:HG13	1.90	0.52
1:f:390:VAL:HG23	1:f:403:TRP:HH2	1.75	0.52
1:g:7:THR:OG1	1:o:516:SER:OG	2.13	0.52
1:g:153:ASP:H	1:o:473:LEU:HD12	1.74	0.52
1:g:282:THR:OG1	1:g:311:LEU:O	2.26	0.52
1:j:99:ALA:HB1	1:j:176:VAL:HG11	1.92	0.52
1:j:164:ILE:HD11	1:j:486:LEU:HD22	1.92	0.52
1:o:91:ARG:HG2	1:o:119:ARG:NH2	2.24	0.52
1:o:157:ILE:HG21	1:o:497:LEU:HD21	1.91	0.52
1:p:195:GLN:NE2	1:p:458:LEU:HG	2.25	0.52
1:r:200:GLN:NE2	1:r:201:GLY:O	2.43	0.52
1:v:95:LEU:HD12	1:v:112:VAL:HG13	1.91	0.52
1:v:370:MET:HE1	1:v:379:VAL:HG11	1.91	0.52
1:B:22:GLN:OE1	1:a:2:ALA:N	2.43	0.52
1:C:390:VAL:HG23	1:C:403:TRP:CH2	2.44	0.52
1:F:113:GLN:NE2	1:F:176:VAL:H	2.07	0.52
1:G:110:ASP:HA	1:G:177:ASN:ND2	2.24	0.52
1:I:421:LYS:NZ	1:I:423:ASN:O	2.36	0.52
1:M:6:ASN:HD21	1:U:35:GLY:C	2.16	0.52
1:N:84:GLU:HG2	1:Z:503:ASN:HB2	1.92	0.52
1:N:421:LYS:NZ	1:N:423:ASN:O	2.34	0.52
1:O:254:THR:HG22	1:O:362:THR:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:279:GLU:HB2	1:P:343:GLY:HA3	1.91	0.52
1:Q:253:ASP:HA	1:Q:263:LEU:HD12	1.92	0.52
1:R:148:GLN:NE2	1:R:153:ASP:OD1	2.43	0.52
1:R:468:LYS:HD3	1:R:469:THR:O	2.09	0.52
1:R:500:THR:O	1:R:504:LEU:HD23	2.10	0.52
1:T:311:LEU:HB3	1:T:331:SER:HB2	1.90	0.52
1:U:125:ARG:NH2	1:g:500:THR:HG22	2.24	0.52
1:U:279:GLU:HB2	1:U:343:GLY:HA3	1.91	0.52
1:V:40:SER:O	1:V:42:LYS:N	2.43	0.52
1:V:62:THR:O	1:V:66:ARG:HG2	2.10	0.52
1:V:125:ARG:NH2	1:h:500:THR:HG22	2.24	0.52
1:Z:16:ASN:HD21	1:h:509:ASN:CG	2.18	0.52
1:Z:355:LEU:HG	1:Z:357:TYR:H	1.74	0.52
1:b:112:VAL:O	1:b:116:ILE:HG13	2.10	0.52
1:b:434:ASP:OD1	1:b:435:ASN:N	2.41	0.52
1:b:531:SER:O	1:b:535:ILE:HG12	2.10	0.52
1:d:42:LYS:O	1:l:495:ASN:ND2	2.30	0.52
1:e:390:VAL:HG23	1:e:403:TRP:HH2	1.75	0.52
1:g:504:LEU:O	1:g:508:VAL:HG23	2.10	0.52
1:h:403:TRP:CD1	1:h:408:GLY:HA2	2.45	0.52
1:j:64:ALA:CB	1:j:150:GLY:H	2.23	0.52
1:m:91:ARG:HG2	1:m:119:ARG:NH2	2.25	0.52
1:u:312:THR:OG1	1:u:314:ASN:ND2	2.42	0.52
1:v:222:LYS:HE2	1:v:392:PHE:CE2	2.42	0.52
1:E:416:PHE:CD1	1:E:417:ASP:N	2.73	0.52
1:F:441:GLN:OE1	1:F:446:ASP:N	2.43	0.52
1:I:73:SER:O	1:I:77:THR:HG23	2.10	0.52
1:I:316:ALA:HB2	1:v:288:PHE:HE2	1.74	0.52
1:K:246:PHE:H	1:K:371:GLY:HA2	1.75	0.52
1:K:290:VAL:HG11	1:K:296:ILE:HG23	1.91	0.52
1:O:531:SER:O	1:O:535:ILE:HG12	2.10	0.52
1:R:38:ILE:HD12	1:R:48:MET:HA	1.92	0.52
1:R:125:ARG:NH2	1:d:500:THR:HG22	2.24	0.52
1:T:249:THR:HB	1:T:366:VAL:HG22	1.90	0.52
1:V:77:THR:HG22	1:h:510:ASN:HB3	1.92	0.52
1:V:101:ASN:OD1	1:V:102:GLY:N	2.43	0.52
1:W:303:ALA:HA	1:W:315:ASP:HA	1.92	0.52
1:Y:404:VAL:HB	1:Y:407:LYS:HB2	1.92	0.52
1:Z:395:ALA:HA	1:Z:398:ASP:HB2	1.91	0.52
1:d:40:SER:O	1:d:42:LYS:N	2.43	0.52
1:l:169:LEU:HD23	1:l:479:ALA:HB1	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:515:ARG:HA	1:n:518:ILE:HG22	1.92	0.52
1:r:110:ASP:OD1	1:r:177:ASN:ND2	2.43	0.52
1:B:187:ALA:H	1:B:451:LEU:HA	1.75	0.52
1:B:251:THR:HG22	1:B:364:ALA:HB2	1.91	0.52
1:B:334:THR:HG23	1:B:355:LEU:HD23	1.92	0.52
1:F:110:ASP:HA	1:F:177:ASN:ND2	2.24	0.52
1:G:35:GLY:O	1:p:6:ASN:ND2	2.42	0.52
1:H:175:ASN:ND2	1:H:467:ASP:O	2.43	0.52
1:I:113:GLN:NE2	1:I:176:VAL:H	2.08	0.52
1:K:531:SER:O	1:K:535:ILE:HG12	2.10	0.52
1:T:61:LEU:HD23	1:T:150:GLY:HA2	1.91	0.52
1:T:324:THR:HG23	1:T:327:ASP:H	1.75	0.52
1:U:355:LEU:HG	1:U:357:TYR:H	1.74	0.52
1:Z:5:ILE:HG12	1:h:523:TYR:CE2	2.44	0.52
1:b:212:ASN:HA	1:b:414:GLN:HG3	1.92	0.52
1:c:249:THR:HG22	1:c:366:VAL:HG22	1.91	0.52
1:d:113:GLN:NE2	1:d:175:ASN:HA	2.25	0.52
1:h:390:VAL:HG23	1:h:403:TRP:CH2	2.44	0.52
1:i:396:THR:O	1:u:399:SER:OG	2.27	0.52
1:s:195:GLN:NE2	1:s:458:LEU:HG	2.23	0.52
1:s:333:GLY:H	1:s:337:ASN:HB2	1.74	0.52
1:A:212:ASN:HA	1:A:414:GLN:HG3	1.91	0.52
1:A:315:ASP:OD1	1:A:315:ASP:N	2.42	0.52
1:B:62:THR:O	1:B:66:ARG:HG2	2.09	0.52
1:B:355:LEU:HG	1:B:357:TYR:H	1.73	0.52
1:C:524:ALA:HB1	1:F:15:GLN:HG2	1.91	0.52
1:D:125:ARG:HH21	1:F:500:THR:HG22	1.75	0.52
1:G:227:ASN:HB3	1:G:239:TYR:HB2	1.91	0.52
1:H:345:THR:HB	1:H:347:TYR:CE1	2.44	0.52
1:J:311:LEU:HB3	1:J:331:SER:OG	2.10	0.52
1:K:411:THR:O	1:K:414:GLN:NE2	2.42	0.52
1:L:230:ALA:HB2	1:L:236:THR:HG23	1.92	0.52
1:L:345:THR:HB	1:L:347:TYR:CE1	2.45	0.52
1:M:441:GLN:OE1	1:M:446:ASP:N	2.43	0.52
1:N:345:THR:HB	1:N:347:TYR:CE1	2.45	0.52
1:P:296:ILE:HD13	1:P:328:VAL:HG21	1.91	0.52
1:T:64:ALA:CB	1:T:150:GLY:H	2.23	0.52
1:U:64:ALA:CB	1:U:150:GLY:H	2.23	0.52
1:U:393:ALA:HB3	1:U:398:ASP:HA	1.92	0.52
1:U:395:ALA:HA	1:U:398:ASP:HB2	1.92	0.52
1:U:403:TRP:HB3	1:U:410:LEU:HD23	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:404:VAL:HB	1:W:407:LYS:HB2	1.91	0.52
1:X:16:ASN:HD21	1:f:509:ASN:CG	2.17	0.52
1:Y:125:ARG:NH2	1:k:500:THR:HG22	2.25	0.52
1:Y:316:ALA:HA	1:c:286:ALA:HA	1.92	0.52
1:b:396:THR:O	1:n:399:SER:OG	2.24	0.52
1:d:118:GLN:OE1	1:p:496:ARG:NH2	2.43	0.52
1:d:155:GLU:OE1	1:d:155:GLU:N	2.43	0.52
1:h:278:TYR:HB2	1:h:290:VAL:HG23	1.91	0.52
1:i:171:LEU:C	1:i:173:GLY:H	2.17	0.52
1:j:32:LEU:HB3	1:v:543:VAL:HG21	1.92	0.52
1:k:401:ASN:HB3	1:k:410:LEU:HD21	1.91	0.52
1:m:297:THR:OG1	1:m:301:ASN:O	2.28	0.52
1:m:520:ASP:OD1	1:m:521:ALA:N	2.43	0.52
1:p:41:ALA:HB2	1:p:48:MET:HG2	1.91	0.52
1:p:471:ASP:HB3	1:p:474:LYS:HB2	1.92	0.52
1:q:352:ALA:HB3	1:q:362:THR:HG23	1.90	0.52
1:r:353:ASP:HB2	1:r:362:THR:HG22	1.92	0.52
1:A:288:PHE:CE2	1:q:316:ALA:HB2	2.45	0.51
1:B:473:LEU:HD12	1:G:153:ASP:H	1.73	0.51
1:C:375:ALA:O	1:C:378:THR:OG1	2.23	0.51
1:C:396:THR:HG21	1:l:420:TYR:HD2	1.75	0.51
1:E:175:ASN:ND2	1:E:467:ASP:O	2.43	0.51
1:I:206:LYS:HE2	1:I:206:LYS:HA	1.92	0.51
1:K:441:GLN:HE21	1:K:448:ALA:N	2.08	0.51
1:L:126:ILE:HG12	1:X:503:ASN:ND2	2.25	0.51
1:M:326:ASP:OD1	1:M:327:ASP:N	2.43	0.51
1:Q:505:ASN:O	1:Q:509:ASN:ND2	2.44	0.51
1:S:171:LEU:C	1:S:173:GLY:H	2.18	0.51
1:S:404:VAL:HB	1:S:407:LYS:HB2	1.92	0.51
1:W:118:GLN:O	1:i:496:ARG:HD2	2.09	0.51
1:p:441:GLN:HG2	1:p:445:ALA:HB3	1.92	0.51
1:q:171:LEU:HB3	1:q:174:PHE:HB2	1.92	0.51
1:s:197:GLY:N	1:s:205:TYR:OH	2.40	0.51
1:t:520:ASP:OD1	1:t:521:ALA:N	2.41	0.51
1:u:197:GLY:N	1:u:205:TYR:OH	2.37	0.51
1:v:345:THR:HB	1:v:347:TYR:HE1	1.75	0.51
1:B:171:LEU:C	1:B:173:GLY:H	2.17	0.51
1:B:324:THR:HG23	1:B:327:ASP:H	1.76	0.51
1:H:230:ALA:HB2	1:H:236:THR:HG23	1.92	0.51
1:I:441:GLN:HB3	1:I:448:ALA:H	1.76	0.51
1:K:22:GLN:OE1	1:W:2:ALA:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:153:ASP:H	1:T:473:LEU:HD12	1.74	0.51
1:N:38:ILE:HG13	1:N:38:ILE:O	2.09	0.51
1:T:5:ILE:HG12	1:b:523:TYR:CE2	2.45	0.51
1:T:62:THR:O	1:T:66:ARG:HG2	2.10	0.51
1:T:450:VAL:HG21	1:T:458:LEU:HD12	1.91	0.51
1:U:55:THR:HG22	1:U:515:ARG:HH11	1.73	0.51
1:X:404:VAL:HB	1:X:407:LYS:HB2	1.91	0.51
1:a:282:THR:OG1	1:a:311:LEU:O	2.25	0.51
1:g:155:GLU:OE1	1:g:155:GLU:N	2.43	0.51
1:B:516:SER:OG	1:G:7:THR:OG1	2.12	0.51
1:C:212:ASN:HA	1:C:414:GLN:HG3	1.91	0.51
1:C:500:THR:O	1:C:504:LEU:HD23	2.10	0.51
1:H:206:LYS:HE2	1:H:206:LYS:HA	1.92	0.51
1:K:110:ASP:OD1	1:K:177:ASN:ND2	2.43	0.51
1:K:113:GLN:NE2	1:K:176:VAL:H	2.08	0.51
1:L:397:THR:HA	1:X:399:SER:HB3	1.92	0.51
1:O:171:LEU:HD22	1:O:174:PHE:CD1	2.44	0.51
1:S:296:ILE:HD13	1:S:328:VAL:HG21	1.91	0.51
1:T:41:ALA:N	1:b:79:GLU:OE2	2.43	0.51
1:T:500:THR:O	1:T:504:LEU:HD23	2.11	0.51
1:U:324:THR:HG23	1:U:327:ASP:H	1.75	0.51
1:V:73:SER:O	1:V:77:THR:HG23	2.10	0.51
1:V:416:PHE:CE2	1:V:421:LYS:HG3	2.46	0.51
1:W:22:GLN:NE2	1:i:2:ALA:O	2.41	0.51
1:W:296:ILE:HD13	1:W:328:VAL:HG21	1.91	0.51
1:Y:253:ASP:HA	1:Y:263:LEU:HD12	1.92	0.51
1:Y:279:GLU:HB2	1:Y:343:GLY:HA3	1.92	0.51
1:Z:183:GLN:HA	1:Z:463:THR:HA	1.91	0.51
1:d:230:ALA:HB2	1:d:236:THR:HG23	1.93	0.51
1:j:248:TYR:HE2	1:j:250:LYS:HG3	1.75	0.51
1:m:40:SER:O	1:m:42:LYS:N	2.43	0.51
1:n:148:GLN:NE2	1:n:150:GLY:O	2.44	0.51
1:q:192:VAL:O	1:q:205:TYR:OH	2.21	0.51
1:r:197:GLY:N	1:r:205:TYR:OH	2.40	0.51
1:s:222:LYS:HE2	1:s:392:PHE:CE2	2.43	0.51
1:v:195:GLN:NE2	1:v:458:LEU:HG	2.25	0.51
1:C:110:ASP:OD1	1:C:177:ASN:ND2	2.40	0.51
1:C:113:GLN:NE2	1:C:175:ASN:HA	2.25	0.51
1:D:86:ASN:HD21	1:c:52:ASN:ND2	2.08	0.51
1:E:91:ARG:HG2	1:E:119:ARG:NH2	2.26	0.51
1:E:326:ASP:OD1	1:E:327:ASP:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:399:SER:OG	1:Q:396:THR:O	2.28	0.51
1:F:38:ILE:HD12	1:F:48:MET:HA	1.92	0.51
1:G:311:LEU:HB3	1:G:331:SER:OG	2.11	0.51
1:H:91:ARG:HG2	1:H:119:ARG:NH2	2.26	0.51
1:I:274:ILE:HG23	1:I:293:ALA:HA	1.91	0.51
1:J:441:GLN:HB3	1:J:448:ALA:H	1.75	0.51
1:K:6:ASN:HD21	1:S:35:GLY:C	2.18	0.51
1:K:110:ASP:HA	1:K:177:ASN:ND2	2.26	0.51
1:K:298:ILE:HG23	1:K:301:ASN:HB2	1.93	0.51
1:K:397:THR:HA	1:W:399:SER:HB3	1.92	0.51
1:L:162:SER:OG	1:L:163:GLU:OE2	2.29	0.51
1:M:192:VAL:HG12	1:M:458:LEU:HD11	1.91	0.51
1:O:145:LEU:HB2	1:O:159:LEU:HD12	1.91	0.51
1:Q:125:ARG:NH2	1:c:500:THR:HG22	2.25	0.51
1:S:500:THR:O	1:S:504:LEU:HD23	2.10	0.51
1:U:500:THR:O	1:U:504:LEU:HD23	2.10	0.51
1:X:74:LEU:HD22	1:X:159:LEU:HD21	1.92	0.51
1:X:118:GLN:O	1:j:496:ARG:HD2	2.08	0.51
1:b:376:VAL:HA	1:b:379:VAL:HG12	1.92	0.51
1:d:504:LEU:O	1:d:508:VAL:HG23	2.10	0.51
1:f:401:ASN:HB3	1:f:410:LEU:HD21	1.92	0.51
1:g:125:ARG:NH2	1:s:500:THR:HG22	2.25	0.51
1:i:167:LYS:HA	1:i:172:ASP:HB2	1.93	0.51
1:k:7:THR:OG1	1:s:516:SER:OG	2.11	0.51
1:o:307:ALA:O	1:o:311:LEU:N	2.24	0.51
1:o:345:THR:HB	1:o:347:TYR:HE1	1.75	0.51
1:p:40:SER:O	1:p:42:LYS:N	2.43	0.51
1:q:306:ASN:ND2	1:q:314:ASN:HB2	2.26	0.51
1:r:441:GLN:HG2	1:r:445:ALA:HB3	1.92	0.51
1:A:145:LEU:HB2	1:A:159:LEU:HD12	1.92	0.51
1:F:162:SER:OG	1:F:163:GLU:OE2	2.29	0.51
1:F:451:LEU:HD22	1:F:462:THR:HA	1.92	0.51
1:I:314:ASN:HA	1:v:314:ASN:ND2	2.25	0.51
1:M:333:GLY:H	1:M:337:ASN:HB2	1.75	0.51
1:O:133:ASN:OD1	1:W:108:GLN:NE2	2.43	0.51
1:Q:277:SER:OG	1:Q:289:ASP:OD1	2.24	0.51
1:R:404:VAL:HG11	1:R:407:LYS:HD3	1.92	0.51
1:S:41:ALA:N	1:a:79:GLU:OE2	2.43	0.51
1:S:157:ILE:HG12	1:S:496:ARG:HH21	1.75	0.51
1:U:26:GLY:O	1:U:30:GLU:HG3	2.11	0.51
1:U:46:ALA:O	1:U:50:ILE:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:137:VAL:HB	1:V:161:LEU:HD11	1.92	0.51
1:X:73:SER:O	1:X:77:THR:HG23	2.11	0.51
1:X:324:THR:HG23	1:X:327:ASP:H	1.74	0.51
1:X:450:VAL:HG21	1:X:458:LEU:HD12	1.91	0.51
1:Y:251:THR:HG22	1:Y:364:ALA:HB2	1.92	0.51
1:Y:296:ILE:HD13	1:Y:328:VAL:HG21	1.92	0.51
1:a:125:ARG:NH2	1:m:500:THR:HG22	2.25	0.51
1:c:175:ASN:HB3	1:c:469:THR:HG23	1.92	0.51
1:e:394:ILE:CD1	1:q:419:SER:HB2	2.40	0.51
1:f:113:GLN:NE2	1:f:175:ASN:HA	2.26	0.51
1:g:32:LEU:HB3	1:s:543:VAL:HG21	1.92	0.51
1:g:78:THR:HG21	1:g:161:LEU:HD12	1.91	0.51
1:g:112:VAL:O	1:g:116:ILE:HG13	2.11	0.51
1:g:118:GLN:OE1	1:s:496:ARG:NH2	2.43	0.51
1:h:7:THR:OG1	1:p:516:SER:OG	2.16	0.51
1:j:110:ASP:HA	1:j:177:ASN:ND2	2.25	0.51
1:j:125:ARG:NH2	1:v:500:THR:HG22	2.25	0.51
1:s:520:ASP:OD1	1:s:521:ALA:N	2.44	0.51
1:t:353:ASP:HB2	1:t:362:THR:HG22	1.92	0.51
1:B:40:SER:O	1:B:42:LYS:N	2.44	0.51
1:B:125:ARG:NH2	1:a:500:THR:HG22	2.25	0.51
1:C:125:ARG:NH2	1:l:500:THR:HG22	2.26	0.51
1:G:91:ARG:HG2	1:G:119:ARG:NH2	2.24	0.51
1:I:315:ASP:OD1	1:I:315:ASP:N	2.42	0.51
1:J:153:ASP:N	1:R:473:LEU:HD12	2.25	0.51
1:P:73:SER:O	1:P:77:THR:HG23	2.10	0.51
1:T:505:ASN:O	1:T:509:ASN:ND2	2.44	0.51
1:V:133:ASN:ND2	1:d:103:SER:O	2.43	0.51
1:V:303:ALA:HA	1:V:315:ASP:HA	1.93	0.51
1:W:253:ASP:HA	1:W:263:LEU:HD12	1.93	0.51
1:W:279:GLU:HB2	1:W:343:GLY:HA3	1.93	0.51
1:Z:386:THR:H	1:Z:405:ASP:HB2	1.75	0.51
1:a:288:PHE:HB3	1:a:290:VAL:HG13	1.93	0.51
1:a:306:ASN:O	1:a:306:ASN:ND2	2.36	0.51
1:a:504:LEU:O	1:a:508:VAL:HG23	2.11	0.51
1:c:110:ASP:HA	1:c:177:ASN:ND2	2.26	0.51
1:c:375:ALA:O	1:c:378:THR:OG1	2.25	0.51
1:f:376:VAL:HA	1:f:379:VAL:HG12	1.92	0.51
1:h:40:SER:O	1:h:42:LYS:N	2.44	0.51
1:h:52:ASN:ND2	1:p:86:ASN:HD21	2.09	0.51
1:h:376:VAL:HA	1:h:379:VAL:HG12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:140:ASP:HA	1:i:163:GLU:HG3	1.91	0.51
1:j:390:VAL:HG23	1:j:403:TRP:HH2	1.76	0.51
1:k:144:PRO:HB2	1:k:158:THR:HG23	1.91	0.51
1:m:148:GLN:NE2	1:m:150:GLY:O	2.43	0.51
1:m:195:GLN:NE2	1:m:458:LEU:HG	2.24	0.51
1:n:40:SER:O	1:n:42:LYS:N	2.44	0.51
1:o:40:SER:O	1:o:42:LYS:N	2.42	0.51
1:q:279:GLU:O	1:q:343:GLY:N	2.40	0.51
1:t:192:VAL:O	1:t:205:TYR:OH	2.21	0.51
1:v:297:THR:OG1	1:v:301:ASN:O	2.28	0.51
1:I:110:ASP:HA	1:I:177:ASN:ND2	2.26	0.51
1:I:288:PHE:CE2	1:v:316:ALA:HB2	2.46	0.51
1:L:91:ARG:HG2	1:L:119:ARG:NH2	2.25	0.51
1:N:126:ILE:HG12	1:Z:503:ASN:ND2	2.25	0.51
1:P:500:THR:O	1:P:504:LEU:HD23	2.11	0.51
1:V:279:GLU:HB2	1:V:343:GLY:HA3	1.90	0.51
1:W:16:ASN:HD21	1:e:509:ASN:CG	2.19	0.51
1:W:281:SER:HA	1:W:286:ALA:HB3	1.92	0.51
1:W:390:VAL:HG23	1:W:403:TRP:CH2	2.46	0.51
1:X:46:ALA:O	1:X:50:ILE:HG12	2.10	0.51
1:Y:500:THR:O	1:Y:504:LEU:HD23	2.10	0.51
1:b:304:PHE:HA	1:b:323:ALA:HB2	1.93	0.51
1:e:375:ALA:O	1:e:378:THR:OG1	2.25	0.51
1:e:401:ASN:HB3	1:e:410:LEU:HD21	1.91	0.51
1:h:375:ALA:O	1:h:378:THR:OG1	2.24	0.51
1:j:155:GLU:OE1	1:j:155:GLU:N	2.43	0.51
1:k:155:GLU:N	1:k:155:GLU:OE1	2.43	0.51
1:k:376:VAL:HA	1:k:379:VAL:HG12	1.91	0.51
1:n:352:ALA:HB3	1:n:362:THR:HG23	1.93	0.51
1:n:411:THR:O	1:n:414:GLN:NE2	2.43	0.51
1:q:345:THR:HB	1:q:347:TYR:HE1	1.76	0.51
1:s:192:VAL:HB	1:s:205:TYR:CE2	2.45	0.51
1:B:450:VAL:HG21	1:B:458:LEU:HD12	1.93	0.51
1:C:98:GLN:HG2	1:C:104:TYR:HE2	1.76	0.51
1:C:253:ASP:HA	1:C:263:LEU:HD13	1.93	0.51
1:D:345:THR:HB	1:D:347:TYR:HE1	1.76	0.51
1:G:398:ASP:OD1	1:G:399:SER:N	2.42	0.51
1:J:126:ILE:HG12	1:V:503:ASN:ND2	2.26	0.51
1:L:177:ASN:HD21	1:L:179:LYS:NZ	2.09	0.51
1:M:345:THR:HB	1:M:347:TYR:CE1	2.46	0.51
1:O:38:ILE:O	1:O:38:ILE:HG13	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:16:ASN:HD21	1:c:509:ASN:CG	2.19	0.51
1:U:206:LYS:NZ	1:U:427:GLY:O	2.44	0.51
1:V:206:LYS:NZ	1:V:427:GLY:O	2.44	0.51
1:V:390:VAL:HG23	1:V:403:TRP:CH2	2.45	0.51
1:X:125:ARG:NH2	1:j:500:THR:HG22	2.25	0.51
1:Z:450:VAL:HG21	1:Z:458:LEU:HD12	1.93	0.51
1:a:386:THR:H	1:a:405:ASP:HB2	1.74	0.51
1:b:32:LEU:HB3	1:n:543:VAL:HG21	1.93	0.51
1:b:386:THR:H	1:b:405:ASP:HB2	1.76	0.51
1:c:140:ASP:HA	1:c:163:GLU:HG3	1.91	0.51
1:c:211:PHE:HE2	1:c:426:THR:H	1.59	0.51
1:i:164:ILE:HG23	1:i:169:LEU:HD21	1.93	0.51
1:i:187:ALA:HB3	1:i:450:VAL:HG13	1.93	0.51
1:i:390:VAL:HG23	1:i:403:TRP:CH2	2.46	0.51
1:o:144:PRO:HB2	1:o:158:THR:HG23	1.92	0.51
1:r:199:LEU:HD22	1:r:205:TYR:HD1	1.75	0.51
1:s:279:GLU:O	1:s:343:GLY:N	2.40	0.51
1:A:230:ALA:HB2	1:A:236:THR:HG23	1.92	0.51
1:B:390:VAL:HG23	1:B:403:TRP:CH2	2.46	0.51
1:C:504:LEU:O	1:C:508:VAL:HG23	2.11	0.51
1:E:113:GLN:NE2	1:E:176:VAL:H	2.08	0.51
1:L:113:GLN:NE2	1:L:176:VAL:H	2.09	0.51
1:M:174:PHE:HA	1:M:469:THR:HG21	1.92	0.51
1:N:192:VAL:HG12	1:N:458:LEU:HD11	1.93	0.51
1:N:413:ILE:HD12	1:Z:396:THR:HG22	1.93	0.51
1:O:175:ASN:ND2	1:O:467:ASP:O	2.44	0.51
1:P:55:THR:HG22	1:P:515:ARG:HH11	1.76	0.51
1:Q:404:VAL:HB	1:Q:407:LYS:HB2	1.92	0.51
1:R:101:ASN:OD1	1:R:102:GLY:N	2.44	0.51
1:R:324:THR:HG23	1:R:327:ASP:H	1.76	0.51
1:T:77:THR:HG22	1:f:510:ASN:HB3	1.92	0.51
1:V:16:ASN:HD21	1:d:509:ASN:CG	2.18	0.51
1:W:334:THR:HG23	1:W:355:LEU:HD23	1.93	0.51
1:X:251:THR:HG22	1:X:364:ALA:HB2	1.92	0.51
1:e:52:ASN:ND2	1:m:86:ASN:HD21	2.09	0.51
1:f:7:THR:OG1	1:n:516:SER:OG	2.13	0.51
1:f:155:GLU:N	1:f:155:GLU:OE1	2.44	0.51
1:i:125:ARG:NH2	1:u:500:THR:HG22	2.25	0.51
1:i:504:LEU:O	1:i:508:VAL:HG23	2.11	0.51
1:j:105:SER:OG	1:j:107:GLU:OE1	2.29	0.51
1:j:153:ASP:H	1:r:473:LEU:HD12	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:278:TYR:HB2	1:k:290:VAL:HG23	1.92	0.51
1:m:40:SER:O	1:m:42:LYS:HG3	2.11	0.51
1:n:333:GLY:H	1:n:337:ASN:HB2	1.76	0.51
1:r:192:VAL:HB	1:r:205:TYR:CE2	2.46	0.51
1:r:297:THR:OG1	1:r:301:ASN:O	2.29	0.51
1:A:281:SER:HA	1:A:286:ALA:HB3	1.92	0.51
1:A:411:THR:O	1:A:414:GLN:NE2	2.43	0.51
1:B:484:ASP:HA	1:B:487:THR:HG22	1.91	0.51
1:C:155:GLU:N	1:C:155:GLU:OE1	2.44	0.51
1:C:531:SER:O	1:C:535:ILE:HG12	2.10	0.51
1:G:315:ASP:OD1	1:G:315:ASP:N	2.43	0.51
1:H:6:ASN:HD21	1:P:35:GLY:C	2.19	0.51
1:K:500:THR:HG22	1:p:125:ARG:HH21	1.76	0.51
1:L:451:LEU:HD22	1:L:462:THR:HA	1.93	0.51
1:P:40:SER:O	1:P:42:LYS:N	2.43	0.51
1:Q:171:LEU:C	1:Q:173:GLY:H	2.19	0.51
1:S:62:THR:O	1:S:66:ARG:HG2	2.10	0.51
1:S:450:VAL:HG21	1:S:458:LEU:HD12	1.93	0.51
1:T:251:THR:HG22	1:T:364:ALA:HB2	1.93	0.51
1:U:59:ARG:HD2	1:c:94:GLU:HB2	1.92	0.51
1:U:398:ASP:OD1	1:U:399:SER:N	2.44	0.51
1:W:505:ASN:O	1:W:509:ASN:ND2	2.44	0.51
1:Z:64:ALA:CB	1:Z:150:GLY:H	2.24	0.51
1:a:155:GLU:OE1	1:a:155:GLU:N	2.44	0.51
1:g:376:VAL:HA	1:g:379:VAL:HG12	1.92	0.51
1:g:394:ILE:CD1	1:s:419:SER:HB2	2.41	0.51
1:n:297:THR:OG1	1:n:301:ASN:O	2.29	0.51
1:p:297:THR:OG1	1:p:301:ASN:O	2.28	0.51
1:p:545:ALA:HA	1:p:548:ASN:HD22	1.76	0.51
1:A:288:PHE:CE1	1:q:315:ASP:HB3	2.47	0.50
1:B:311:LEU:HB3	1:B:331:SER:HB2	1.93	0.50
1:F:73:SER:O	1:F:77:THR:HG23	2.10	0.50
1:G:25:LEU:HB2	1:G:533:ALA:HB1	1.93	0.50
1:I:411:THR:O	1:I:414:GLN:NE2	2.44	0.50
1:J:398:ASP:OD1	1:J:399:SER:N	2.41	0.50
1:K:345:THR:HB	1:K:347:TYR:CE1	2.46	0.50
1:M:416:PHE:HD2	1:M:418:THR:H	1.59	0.50
1:M:531:SER:O	1:M:535:ILE:HG12	2.10	0.50
1:W:62:THR:O	1:W:66:ARG:HG2	2.10	0.50
1:X:62:THR:O	1:X:66:ARG:HG2	2.10	0.50
1:X:202:ASP:OD1	1:X:202:ASP:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:334:THR:HG23	1:X:355:LEU:HD23	1.93	0.50
1:X:390:VAL:HG23	1:X:403:TRP:CH2	2.46	0.50
1:Y:416:PHE:CD2	1:Y:421:LYS:HG3	2.46	0.50
1:Y:431:VAL:O	1:Y:440:GLY:N	2.44	0.50
1:Z:484:ASP:HA	1:Z:487:THR:HG22	1.92	0.50
1:a:110:ASP:HA	1:a:177:ASN:ND2	2.26	0.50
1:c:98:GLN:HG2	1:c:104:TYR:HE2	1.75	0.50
1:c:531:SER:O	1:c:535:ILE:HG12	2.11	0.50
1:d:151:ALA:HB1	1:l:93:ARG:HH21	1.75	0.50
1:h:390:VAL:HG23	1:h:403:TRP:HH2	1.76	0.50
1:j:40:SER:O	1:j:42:LYS:N	2.44	0.50
1:j:390:VAL:HG23	1:j:403:TRP:CH2	2.46	0.50
1:k:153:ASP:H	1:s:473:LEU:HD12	1.73	0.50
1:o:171:LEU:C	1:o:173:GLY:H	2.19	0.50
1:o:197:GLY:N	1:o:205:TYR:OH	2.39	0.50
1:q:197:GLY:N	1:q:205:TYR:OH	2.37	0.50
1:v:520:ASP:OD1	1:v:521:ALA:N	2.44	0.50
1:G:441:GLN:OE1	1:G:446:ASP:N	2.43	0.50
1:I:441:GLN:OE1	1:I:446:ASP:N	2.44	0.50
1:M:73:SER:O	1:M:77:THR:HG23	2.11	0.50
1:M:524:ALA:HB1	1:j:15:GLN:HG2	1.92	0.50
1:Q:355:LEU:HB2	1:Q:361:ALA:HB2	1.92	0.50
1:S:505:ASN:O	1:S:509:ASN:ND2	2.44	0.50
1:X:277:SER:OG	1:X:289:ASP:OD1	2.28	0.50
1:Z:419:SER:OG	1:Z:421:LYS:NZ	2.44	0.50
1:a:230:ALA:HB2	1:a:236:THR:HG23	1.93	0.50
1:c:355:LEU:HB2	1:c:361:ALA:HB2	1.94	0.50
1:d:390:VAL:HG23	1:d:403:TRP:HH2	1.76	0.50
1:d:394:ILE:CD1	1:p:419:SER:HB2	2.41	0.50
1:i:99:ALA:HB2	1:i:112:VAL:HG11	1.93	0.50
1:j:171:LEU:HD21	1:j:476:LEU:HD23	1.93	0.50
1:j:282:THR:OG1	1:j:311:LEU:O	2.28	0.50
1:m:429:VAL:HG12	1:m:442:TYR:HB3	1.93	0.50
1:n:192:VAL:O	1:n:205:TYR:OH	2.25	0.50
1:C:40:SER:O	1:C:42:LYS:N	2.45	0.50
1:E:314:ASN:HA	1:r:314:ASN:ND2	2.26	0.50
1:G:175:ASN:ND2	1:G:467:ASP:O	2.44	0.50
1:H:288:PHE:CE2	1:u:316:ALA:HB2	2.46	0.50
1:I:199:LEU:HB2	1:I:205:TYR:HD1	1.76	0.50
1:I:531:SER:O	1:I:535:ILE:HG12	2.12	0.50
1:J:397:THR:HA	1:V:399:SER:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:398:ASP:OD1	1:K:399:SER:N	2.40	0.50
1:K:430:THR:HA	1:K:441:GLN:HA	1.93	0.50
1:Q:471:ASP:HB3	1:Q:474:LYS:HD3	1.93	0.50
1:S:113:GLN:NE2	1:S:175:ASN:HA	2.27	0.50
1:T:355:LEU:HB2	1:T:361:ALA:HB2	1.93	0.50
1:U:5:ILE:HG12	1:c:523:TYR:CE2	2.42	0.50
1:U:62:THR:O	1:U:66:ARG:HG2	2.10	0.50
1:U:214:ALA:HB1	1:U:410:LEU:HD12	1.93	0.50
1:V:5:ILE:HG12	1:d:523:TYR:CE1	2.42	0.50
1:W:26:GLY:O	1:W:30:GLU:HG3	2.10	0.50
1:W:73:SER:O	1:W:77:THR:HG23	2.11	0.50
1:X:395:ALA:HA	1:X:398:ASP:HB2	1.94	0.50
1:X:500:THR:O	1:X:504:LEU:HD23	2.11	0.50
1:Y:355:LEU:HB2	1:Y:361:ALA:HB2	1.94	0.50
1:b:71:GLY:HA3	1:b:147:LEU:HD21	1.93	0.50
1:b:355:LEU:HB2	1:b:361:ALA:HB2	1.94	0.50
1:c:256:VAL:HG12	1:c:259:ASP:H	1.77	0.50
1:d:110:ASP:HA	1:d:177:ASN:ND2	2.26	0.50
1:e:155:GLU:OE1	1:e:155:GLU:N	2.44	0.50
1:f:52:ASN:ND2	1:n:86:ASN:HD21	2.09	0.50
1:i:355:LEU:HB2	1:i:361:ALA:HB2	1.93	0.50
1:i:390:VAL:HG23	1:i:403:TRP:HH2	1.76	0.50
1:j:253:ASP:HA	1:j:263:LEU:HD13	1.92	0.50
1:k:416:PHE:HE2	1:k:421:LYS:HB3	1.76	0.50
1:o:195:GLN:NE2	1:o:458:LEU:HG	2.25	0.50
1:t:341:THR:HG22	1:t:350:SER:HA	1.94	0.50
1:A:407:LYS:HZ3	1:A:409:GLU:HB3	1.76	0.50
1:D:192:VAL:HB	1:D:205:TYR:CE2	2.46	0.50
1:D:197:GLY:N	1:D:205:TYR:OH	2.39	0.50
1:F:413:ILE:HD12	1:R:396:THR:HG22	1.93	0.50
1:H:37:ARG:N	1:H:519:GLN:O	2.43	0.50
1:H:311:LEU:HB3	1:H:331:SER:OG	2.11	0.50
1:I:15:GLN:HG2	1:c:524:ALA:HB1	1.94	0.50
1:I:288:PHE:CE1	1:v:315:ASP:HB3	2.47	0.50
1:J:6:ASN:HD21	1:R:35:GLY:C	2.19	0.50
1:J:326:ASP:OD1	1:J:327:ASP:N	2.44	0.50
1:M:52:ASN:ND2	1:U:86:ASN:HD21	2.09	0.50
1:M:433:GLY:N	1:M:438:THR:O	2.38	0.50
1:N:6:ASN:HD21	1:V:35:GLY:C	2.19	0.50
1:N:183:GLN:HG3	1:N:463:THR:HG22	1.93	0.50
1:O:110:ASP:HA	1:O:177:ASN:ND2	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:441:GLN:OE1	1:O:446:ASP:N	2.44	0.50
1:P:451:LEU:HD13	1:P:462:THR:HA	1.94	0.50
1:R:62:THR:O	1:R:66:ARG:HG2	2.11	0.50
1:R:419:SER:OG	1:R:421:LYS:NZ	2.44	0.50
1:T:390:VAL:HG23	1:T:403:TRP:CH2	2.47	0.50
1:U:73:SER:O	1:U:77:THR:HG23	2.10	0.50
1:Y:334:THR:HG23	1:Y:355:LEU:HD23	1.92	0.50
1:b:504:LEU:O	1:b:508:VAL:HG23	2.11	0.50
1:d:390:VAL:HG23	1:d:403:TRP:CH2	2.46	0.50
1:e:164:ILE:HD11	1:e:486:LEU:HD22	1.93	0.50
1:g:230:ALA:HB2	1:g:236:THR:HG23	1.94	0.50
1:j:230:ALA:HB2	1:j:236:THR:HG23	1.93	0.50
1:r:345:THR:HB	1:r:347:TYR:CE1	2.46	0.50
1:u:91:ARG:HG2	1:u:119:ARG:NH2	2.27	0.50
1:u:311:LEU:HD13	1:u:331:SER:HB2	1.93	0.50
1:A:326:ASP:OD1	1:A:327:ASP:N	2.44	0.50
1:A:398:ASP:OD1	1:A:399:SER:N	2.41	0.50
1:F:311:LEU:HB3	1:F:331:SER:OG	2.12	0.50
1:K:126:ILE:HG12	1:W:503:ASN:ND2	2.26	0.50
1:M:113:GLN:NE2	1:M:176:VAL:H	2.08	0.50
1:N:153:ASP:H	1:V:473:LEU:HD12	1.77	0.50
1:O:225:ASP:HB3	1:O:391:THR:O	2.12	0.50
1:P:251:THR:HG22	1:P:364:ALA:HB2	1.93	0.50
1:P:290:VAL:HG12	1:P:298:ILE:HG12	1.94	0.50
1:P:450:VAL:HG21	1:P:458:LEU:HD12	1.94	0.50
1:Q:390:VAL:HG23	1:Q:403:TRP:CH2	2.46	0.50
1:U:77:THR:HG22	1:g:510:ASN:HB3	1.94	0.50
1:V:315:ASP:N	1:V:315:ASP:OD1	2.42	0.50
1:b:314:ASN:C	1:b:314:ASN:ND2	2.70	0.50
1:b:431:VAL:O	1:b:440:GLY:N	2.43	0.50
1:f:175:ASN:ND2	1:f:177:ASN:O	2.39	0.50
1:g:200:GLN:N	1:g:204:THR:O	2.39	0.50
1:h:112:VAL:O	1:h:116:ILE:HG13	2.11	0.50
1:h:396:THR:HG21	1:t:420:TYR:HD2	1.76	0.50
1:i:40:SER:O	1:i:42:LYS:N	2.44	0.50
1:i:212:ASN:HA	1:i:414:GLN:HG3	1.93	0.50
1:j:403:TRP:CD1	1:j:408:GLY:HA2	2.47	0.50
1:k:390:VAL:HG23	1:k:403:TRP:CH2	2.47	0.50
1:o:353:ASP:HB2	1:o:362:THR:HG22	1.94	0.50
1:u:167:LYS:HA	1:u:172:ASP:HB2	1.93	0.50
1:F:91:ARG:HG2	1:F:119:ARG:NH2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:153:ASP:H	1:P:473:LEU:HD12	1.75	0.50
1:I:37:ARG:N	1:I:519:GLN:O	2.45	0.50
1:L:274:ILE:HG23	1:L:293:ALA:HA	1.93	0.50
1:M:279:GLU:O	1:M:343:GLY:N	2.41	0.50
1:N:113:GLN:NE2	1:N:176:VAL:H	2.08	0.50
1:N:335:GLU:OE2	1:N:357:TYR:OH	2.25	0.50
1:O:110:ASP:OD1	1:O:177:ASN:ND2	2.44	0.50
1:Q:101:ASN:OD1	1:Q:102:GLY:N	2.45	0.50
1:Q:187:ALA:H	1:Q:451:LEU:HA	1.75	0.50
1:R:390:VAL:HG23	1:R:403:TRP:CH2	2.46	0.50
1:V:46:ALA:O	1:V:50:ILE:HG12	2.12	0.50
1:V:355:LEU:HB2	1:V:361:ALA:HB2	1.93	0.50
1:Z:314:ASN:ND2	1:d:314:ASN:HB3	2.26	0.50
1:g:206:LYS:NZ	1:g:208:THR:HG22	2.27	0.50
1:g:355:LEU:HB2	1:g:361:ALA:HB2	1.94	0.50
1:i:99:ALA:HB1	1:i:176:VAL:HG11	1.93	0.50
1:k:88:HIS:CE1	1:k:119:ARG:HH11	2.30	0.50
1:k:495:ASN:HA	1:k:498:GLU:OE1	2.12	0.50
1:l:192:VAL:HB	1:l:205:TYR:CE2	2.46	0.50
1:l:522:ASP:OD1	1:l:525:THR:OG1	2.24	0.50
1:r:148:GLN:NE2	1:r:150:GLY:O	2.45	0.50
1:v:91:ARG:HG2	1:v:119:ARG:NH2	2.27	0.50
1:v:353:ASP:HB2	1:v:362:THR:HG22	1.92	0.50
1:C:520:ASP:CG	1:R:4:VAL:HG21	2.36	0.50
1:H:157:ILE:HG21	1:H:497:LEU:HD21	1.93	0.50
1:I:304:PHE:HB2	1:I:314:ASN:O	2.12	0.50
1:I:311:LEU:HB3	1:I:331:SER:OG	2.10	0.50
1:K:145:LEU:HB2	1:K:159:LEU:HD12	1.93	0.50
1:L:7:THR:OG1	1:T:516:SER:OG	2.10	0.50
1:M:183:GLN:HG3	1:M:463:THR:HG22	1.94	0.50
1:M:312:THR:O	1:M:314:ASN:ND2	2.45	0.50
1:N:110:ASP:HA	1:N:177:ASN:ND2	2.27	0.50
1:S:164:ILE:HD11	1:S:486:LEU:HD22	1.94	0.50
1:T:73:SER:O	1:T:77:THR:HG23	2.12	0.50
1:U:38:ILE:HD12	1:U:48:MET:HA	1.94	0.50
1:V:251:THR:HG22	1:V:364:ALA:HB2	1.94	0.50
1:X:4:VAL:HG21	1:f:520:ASP:CG	2.36	0.50
1:X:281:SER:HA	1:X:286:ALA:HB3	1.93	0.50
1:Y:62:THR:O	1:Y:66:ARG:HG2	2.12	0.50
1:Y:390:VAL:HG23	1:Y:403:TRP:CH2	2.46	0.50
1:Z:62:THR:O	1:Z:66:ARG:HG2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:493:VAL:O	1:Z:497:LEU:HD23	2.12	0.50
1:a:375:ALA:O	1:a:378:THR:OG1	2.26	0.50
1:a:376:VAL:HA	1:a:379:VAL:HG12	1.92	0.50
1:b:281:SER:HA	1:b:286:ALA:HB3	1.93	0.50
1:c:282:THR:OG1	1:c:311:LEU:O	2.25	0.50
1:d:403:TRP:CD1	1:d:408:GLY:HA2	2.46	0.50
1:h:531:SER:O	1:h:535:ILE:HG12	2.11	0.50
1:i:52:ASN:ND2	1:q:86:ASN:HD21	2.09	0.50
1:m:211:PHE:CD2	1:m:416:PHE:HA	2.46	0.50
1:t:73:SER:O	1:t:77:THR:HG23	2.12	0.50
1:A:38:ILE:O	1:A:38:ILE:HG13	2.10	0.50
1:E:73:SER:O	1:E:77:THR:HG23	2.12	0.50
1:G:345:THR:HB	1:G:347:TYR:CE1	2.47	0.50
1:I:490:LEU:HA	1:I:493:VAL:HG12	1.93	0.50
1:N:499:SER:OG	1:s:84:GLU:OE1	2.22	0.50
1:P:390:VAL:HG23	1:P:403:TRP:CH2	2.47	0.50
1:Q:202:ASP:OD1	1:Q:202:ASP:N	2.45	0.50
1:Q:355:LEU:HG	1:Q:357:TYR:H	1.76	0.50
1:S:376:VAL:HA	1:S:379:VAL:HG12	1.93	0.50
1:U:375:ALA:O	1:U:378:THR:OG1	2.22	0.50
1:U:471:ASP:HB3	1:U:474:LYS:HD3	1.94	0.50
1:V:457:LYS:HG3	1:V:458:LEU:H	1.77	0.50
1:Z:390:VAL:HG23	1:Z:403:TRP:CH2	2.47	0.50
1:b:288:PHE:HB3	1:b:290:VAL:HG13	1.92	0.50
1:c:155:GLU:N	1:c:155:GLU:OE1	2.45	0.50
1:c:390:VAL:HG23	1:c:403:TRP:CH2	2.46	0.50
1:e:84:GLU:OE2	1:q:499:SER:OG	2.29	0.50
1:h:206:LYS:HG2	1:h:429:VAL:HG22	1.94	0.50
1:i:304:PHE:HA	1:i:323:ALA:HB2	1.92	0.50
1:n:171:LEU:C	1:n:173:GLY:H	2.20	0.50
1:o:211:PHE:CD2	1:o:416:PHE:HA	2.47	0.50
1:q:410:LEU:HG	1:q:413:ILE:H	1.77	0.50
1:v:429:VAL:HG12	1:v:442:TYR:HB3	1.93	0.50
1:A:531:SER:O	1:A:535:ILE:HG12	2.11	0.50
1:D:416:PHE:N	1:D:419:SER:O	2.45	0.50
1:G:288:PHE:HB3	1:G:290:VAL:HG23	1.93	0.50
1:G:305:LEU:HA	1:G:314:ASN:H	1.77	0.50
1:I:183:GLN:HG3	1:I:463:THR:HG22	1.94	0.50
1:J:225:ASP:HB3	1:J:391:THR:O	2.12	0.50
1:J:230:ALA:HB2	1:J:236:THR:HG23	1.93	0.50
1:N:6:ASN:ND2	1:V:35:GLY:O	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:274:ILE:HG23	1:N:293:ALA:HA	1.94	0.50
1:O:6:ASN:HD21	1:W:35:GLY:C	2.20	0.50
1:O:392:PHE:N	1:O:398:ASP:OD2	2.45	0.50
1:Q:73:SER:O	1:Q:77:THR:HG23	2.12	0.50
1:R:157:ILE:HG12	1:R:496:ARG:NH2	2.27	0.50
1:T:46:ALA:O	1:T:50:ILE:HG12	2.12	0.50
1:T:101:ASN:OD1	1:T:102:GLY:N	2.45	0.50
1:T:187:ALA:H	1:T:451:LEU:HA	1.76	0.50
1:T:202:ASP:OD1	1:T:202:ASP:N	2.45	0.50
1:V:64:ALA:CB	1:V:150:GLY:H	2.25	0.50
1:V:500:THR:O	1:V:504:LEU:HD23	2.12	0.50
1:X:375:ALA:O	1:X:378:THR:OG1	2.22	0.50
1:Y:385:ILE:HA	1:Y:405:ASP:HB2	1.94	0.50
1:Z:159:LEU:HD12	1:Z:493:VAL:HG21	1.93	0.50
1:b:175:ASN:HB3	1:b:469:THR:HG23	1.94	0.50
1:c:394:ILE:HD13	1:o:420:TYR:H	1.77	0.50
1:f:431:VAL:O	1:f:440:GLY:N	2.45	0.50
1:g:5:ILE:HG12	1:o:523:TYR:CE2	2.44	0.50
1:h:504:LEU:O	1:h:508:VAL:HG23	2.11	0.50
1:k:461:GLU:HG3	1:k:463:THR:H	1.77	0.50
1:o:40:SER:O	1:o:42:LYS:HG3	2.12	0.50
1:u:297:THR:OG1	1:u:301:ASN:O	2.29	0.50
1:u:394:ILE:HB	1:u:397:THR:HG22	1.93	0.50
1:J:543:VAL:HG22	1:o:29:ILE:HG23	1.94	0.49
1:L:37:ARG:N	1:L:519:GLN:O	2.44	0.49
1:L:41:ALA:HB2	1:L:48:MET:SD	2.52	0.49
1:M:15:GLN:HG2	1:g:524:ALA:HB1	1.94	0.49
1:M:105:SER:N	1:M:108:GLN:OE1	2.44	0.49
1:N:91:ARG:HG2	1:N:119:ARG:NH2	2.26	0.49
1:O:86:ASN:OD1	1:O:90:GLN:NE2	2.45	0.49
1:O:260:VAL:HG21	1:O:335:GLU:HG3	1.94	0.49
1:Q:22:GLN:NE2	1:c:2:ALA:O	2.44	0.49
1:R:253:ASP:HA	1:R:263:LEU:HD12	1.92	0.49
1:T:42:LYS:NZ	1:b:498:GLU:OE2	2.41	0.49
1:T:497:LEU:O	1:T:501:ILE:HG12	2.12	0.49
1:W:137:VAL:HB	1:W:161:LEU:HD11	1.94	0.49
1:b:155:GLU:OE1	1:b:155:GLU:N	2.44	0.49
1:e:113:GLN:NE2	1:e:175:ASN:HA	2.27	0.49
1:g:390:VAL:HG23	1:g:403:TRP:HH2	1.77	0.49
1:h:118:GLN:OE1	1:t:496:ARG:NH2	2.45	0.49
1:j:112:VAL:O	1:j:116:ILE:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:37:ARG:NH2	1:p:518:ILE:O	2.45	0.49
1:p:288:PHE:HB3	1:p:290:VAL:HG13	1.94	0.49
1:p:515:ARG:HA	1:p:518:ILE:HG22	1.93	0.49
1:s:171:LEU:HB3	1:s:174:PHE:HB2	1.94	0.49
1:u:182:THR:HG23	1:u:466:GLY:HA2	1.93	0.49
1:v:39:ASN:C	1:v:39:ASN:ND2	2.56	0.49
1:A:110:ASP:HA	1:A:177:ASN:ND2	2.27	0.49
1:C:394:ILE:CD1	1:l:419:SER:HB2	2.43	0.49
1:D:279:GLU:O	1:D:343:GLY:N	2.41	0.49
1:E:212:ASN:HA	1:E:414:GLN:HG3	1.94	0.49
1:H:145:LEU:HB2	1:H:159:LEU:HD12	1.93	0.49
1:H:281:SER:HA	1:H:286:ALA:HB3	1.94	0.49
1:J:6:ASN:ND2	1:R:35:GLY:O	2.45	0.49
1:K:268:LYS:HE3	1:K:325:LEU:HD23	1.95	0.49
1:O:490:LEU:HA	1:O:493:VAL:HG12	1.94	0.49
1:Q:66:ARG:HH12	1:c:37:ARG:NH2	2.09	0.49
1:R:251:THR:HG22	1:R:364:ALA:HB2	1.93	0.49
1:V:451:LEU:HD13	1:V:462:THR:HA	1.93	0.49
1:W:64:ALA:CB	1:W:150:GLY:H	2.25	0.49
1:W:419:SER:OG	1:W:421:LYS:NZ	2.46	0.49
1:X:419:SER:OG	1:X:421:LYS:NZ	2.45	0.49
1:Y:73:SER:O	1:Y:77:THR:HG23	2.12	0.49
1:Y:159:LEU:HD12	1:Y:493:VAL:HG21	1.94	0.49
1:b:110:ASP:HA	1:b:177:ASN:ND2	2.27	0.49
1:b:113:GLN:NE2	1:b:175:ASN:HA	2.28	0.49
1:c:40:SER:O	1:c:42:LYS:N	2.45	0.49
1:d:52:ASN:ND2	1:l:86:ASN:HD21	2.09	0.49
1:d:431:VAL:O	1:d:440:GLY:N	2.44	0.49
1:f:112:VAL:O	1:f:116:ILE:HG13	2.12	0.49
1:h:110:ASP:HA	1:h:177:ASN:ND2	2.26	0.49
1:s:368:SER:O	1:s:368:SER:OG	2.30	0.49
1:B:22:GLN:HB2	1:B:537:GLN:HE22	1.77	0.49
1:B:253:ASP:HA	1:B:263:LEU:HD12	1.95	0.49
1:D:90:GLN:HB3	1:c:59:ARG:NH2	2.26	0.49
1:E:258:ALA:HA	1:E:357:TYR:HD1	1.77	0.49
1:F:86:ASN:OD1	1:F:90:GLN:NE2	2.45	0.49
1:F:355:LEU:N	1:F:361:ALA:HB2	2.27	0.49
1:F:407:LYS:HZ3	1:F:409:GLU:HB3	1.76	0.49
1:G:192:VAL:HG12	1:G:458:LEU:HD11	1.94	0.49
1:H:52:ASN:ND2	1:P:86:ASN:HD21	2.11	0.49
1:I:52:ASN:ND2	1:Q:86:ASN:HD21	2.09	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:22:GLN:OE1	1:V:2:ALA:N	2.46	0.49
1:J:73:SER:O	1:J:77:THR:HG23	2.12	0.49
1:L:183:GLN:HG3	1:L:463:THR:HG22	1.94	0.49
1:P:395:ALA:HA	1:P:398:ASP:HB2	1.94	0.49
1:Q:251:THR:HG22	1:Q:364:ALA:HB2	1.93	0.49
1:R:73:SER:O	1:R:77:THR:HG23	2.12	0.49
1:R:374:THR:O	1:R:378:THR:HG23	2.12	0.49
1:V:471:ASP:HB3	1:V:474:LYS:HD3	1.93	0.49
1:b:40:SER:O	1:b:42:LYS:N	2.46	0.49
1:c:389:ALA:HB1	1:c:400:ASN:OD1	2.13	0.49
1:c:390:VAL:HG23	1:c:403:TRP:HH2	1.76	0.49
1:e:395:ALA:HA	1:e:398:ASP:HB2	1.94	0.49
1:i:110:ASP:OD1	1:i:177:ASN:ND2	2.41	0.49
1:m:192:VAL:O	1:m:205:TYR:OH	2.25	0.49
1:A:274:ILE:HG23	1:A:293:ALA:HA	1.94	0.49
1:A:314:ASN:HA	1:q:314:ASN:ND2	2.27	0.49
1:E:36:LEU:HD22	1:E:519:GLN:HG2	1.94	0.49
1:G:451:LEU:HD22	1:G:462:THR:HA	1.94	0.49
1:H:290:VAL:HG11	1:H:296:ILE:HG23	1.95	0.49
1:H:441:GLN:HB3	1:H:448:ALA:H	1.77	0.49
1:L:81:ALA:O	1:L:85:VAL:HG23	2.13	0.49
1:M:37:ARG:N	1:M:519:GLN:O	2.43	0.49
1:O:246:PHE:H	1:O:371:GLY:HA2	1.78	0.49
1:T:37:ARG:NH2	1:T:518:ILE:O	2.46	0.49
1:T:113:GLN:NE2	1:T:175:ASN:HA	2.26	0.49
1:T:334:THR:HG23	1:T:355:LEU:HD23	1.95	0.49
1:V:505:ASN:O	1:V:509:ASN:ND2	2.45	0.49
1:W:202:ASP:OD1	1:W:202:ASP:N	2.45	0.49
1:Z:303:ALA:HA	1:Z:315:ASP:HA	1.94	0.49
1:b:282:THR:OG1	1:b:311:LEU:O	2.28	0.49
1:c:178:GLY:HA2	1:c:468:LYS:HZ2	1.76	0.49
1:c:504:LEU:O	1:c:508:VAL:HG23	2.12	0.49
1:e:175:ASN:HB3	1:e:469:THR:HG23	1.94	0.49
1:e:248:TYR:HE2	1:e:250:LYS:HG3	1.77	0.49
1:g:6:ASN:HB2	1:o:520:ASP:OD2	2.13	0.49
1:i:144:PRO:HB2	1:i:158:THR:HG23	1.94	0.49
1:s:37:ARG:NH2	1:s:518:ILE:O	2.45	0.49
1:u:352:ALA:HB3	1:u:362:THR:HG23	1.94	0.49
1:u:411:THR:O	1:u:414:GLN:NE2	2.45	0.49
1:D:515:ARG:HA	1:D:518:ILE:HG22	1.94	0.49
1:E:398:ASP:OD1	1:E:399:SER:N	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:314:ASN:HA	1:u:314:ASN:OD1	2.11	0.49
1:H:411:THR:O	1:H:414:GLN:NE2	2.45	0.49
1:I:420:TYR:H	1:U:394:ILE:HG21	1.77	0.49
1:J:41:ALA:HB2	1:J:48:MET:SD	2.52	0.49
1:L:52:ASN:ND2	1:T:86:ASN:HD21	2.09	0.49
1:L:333:GLY:H	1:L:337:ASN:HB2	1.77	0.49
1:M:22:GLN:OE1	1:Y:2:ALA:N	2.45	0.49
1:N:177:ASN:HD21	1:N:179:LYS:NZ	2.10	0.49
1:O:416:PHE:N	1:O:419:SER:O	2.45	0.49
1:P:386:THR:H	1:P:405:ASP:HB2	1.77	0.49
1:R:395:ALA:HA	1:R:398:ASP:HB2	1.94	0.49
1:T:16:ASN:HD21	1:b:509:ASN:CG	2.21	0.49
1:U:171:LEU:C	1:U:173:GLY:H	2.21	0.49
1:V:157:ILE:HG12	1:V:496:ARG:HH22	1.77	0.49
1:W:46:ALA:O	1:W:50:ILE:HG12	2.12	0.49
1:W:77:THR:HG22	1:i:510:ASN:HB3	1.93	0.49
1:W:395:ALA:HA	1:W:398:ASP:HB2	1.93	0.49
1:Y:64:ALA:CB	1:Y:150:GLY:H	2.26	0.49
1:a:390:VAL:HG23	1:a:403:TRP:HH2	1.77	0.49
1:g:91:ARG:HG2	1:g:119:ARG:NH2	2.28	0.49
1:g:113:GLN:NE2	1:g:175:ASN:HA	2.27	0.49
1:h:155:GLU:OE1	1:h:155:GLU:N	2.45	0.49
1:i:389:ALA:HB1	1:i:400:ASN:OD1	2.13	0.49
1:i:531:SER:O	1:i:535:ILE:HG12	2.13	0.49
1:j:175:ASN:HB3	1:j:469:THR:HG23	1.94	0.49
1:k:212:ASN:HA	1:k:414:GLN:HG3	1.93	0.49
1:n:91:ARG:HG2	1:n:119:ARG:NH2	2.27	0.49
1:o:228:THR:HG22	1:o:238:THR:HG23	1.93	0.49
1:q:37:ARG:NH2	1:q:518:ILE:O	2.46	0.49
1:q:297:THR:OG1	1:q:301:ASN:O	2.30	0.49
1:r:91:ARG:HG2	1:r:119:ARG:NH2	2.28	0.49
1:t:40:SER:O	1:t:42:LYS:N	2.45	0.49
1:t:171:LEU:C	1:t:173:GLY:H	2.20	0.49
1:v:40:SER:O	1:v:42:LYS:N	2.45	0.49
1:B:66:ARG:HH12	1:a:37:ARG:NH2	2.11	0.49
1:D:195:GLN:NE2	1:D:458:LEU:HG	2.25	0.49
1:D:304:PHE:HB3	1:D:321:THR:HB	1.93	0.49
1:E:171:LEU:HD22	1:E:174:PHE:CD1	2.48	0.49
1:F:473:LEU:HD13	1:o:153:ASP:OD2	2.13	0.49
1:I:22:GLN:OE1	1:U:2:ALA:N	2.45	0.49
1:I:281:SER:HA	1:I:286:ALA:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:355:LEU:N	1:I:361:ALA:HB2	2.27	0.49
1:J:91:ARG:HG2	1:J:119:ARG:NH2	2.27	0.49
1:M:91:ARG:HG2	1:M:119:ARG:NH2	2.28	0.49
1:M:398:ASP:OD1	1:M:399:SER:N	2.41	0.49
1:N:7:THR:OG1	1:V:516:SER:OG	2.13	0.49
1:O:144:PRO:HB2	1:O:158:THR:HG23	1.95	0.49
1:R:137:VAL:HB	1:R:161:LEU:HD11	1.95	0.49
1:X:41:ALA:N	1:f:79:GLU:OE2	2.45	0.49
1:a:118:GLN:OE1	1:m:496:ARG:NH2	2.46	0.49
1:c:431:VAL:O	1:c:440:GLY:N	2.45	0.49
1:f:394:ILE:CD1	1:r:419:SER:HB2	2.43	0.49
1:h:230:ALA:HB2	1:h:236:THR:HG23	1.94	0.49
1:i:113:GLN:NE2	1:i:175:ASN:HA	2.27	0.49
1:j:88:HIS:CE1	1:j:119:ARG:HH11	2.30	0.49
1:j:118:GLN:OE1	1:v:496:ARG:NH2	2.45	0.49
1:j:206:LYS:HG2	1:j:429:VAL:HG22	1.93	0.49
1:m:127:SER:CB	1:m:165:SER:HB3	2.42	0.49
1:n:288:PHE:HB3	1:n:290:VAL:HG13	1.95	0.49
1:p:345:THR:HB	1:p:347:TYR:CE1	2.48	0.49
1:r:95:LEU:HD12	1:r:112:VAL:HG13	1.94	0.49
1:A:397:THR:HA	1:P:399:SER:HB3	1.94	0.49
1:E:126:ILE:HG12	1:Q:503:ASN:ND2	2.27	0.49
1:G:38:ILE:HD12	1:G:48:MET:HA	1.95	0.49
1:G:73:SER:O	1:G:77:THR:HG23	2.12	0.49
1:J:144:PRO:HB3	1:J:160:ASN:H	1.76	0.49
1:L:73:SER:O	1:L:77:THR:HG23	2.13	0.49
1:M:355:LEU:N	1:M:361:ALA:HB2	2.28	0.49
1:Q:77:THR:HG22	1:c:510:ASN:HB3	1.95	0.49
1:S:385:ILE:HA	1:S:405:ASP:HB2	1.94	0.49
1:S:390:VAL:HG23	1:S:403:TRP:CH2	2.47	0.49
1:W:148:GLN:NE2	1:W:153:ASP:OD1	2.41	0.49
1:X:59:ARG:HD2	1:f:94:GLU:HB2	1.94	0.49
1:X:77:THR:HG22	1:j:510:ASN:HB3	1.94	0.49
1:Y:4:VAL:HG21	1:g:520:ASP:CG	2.38	0.49
1:Z:55:THR:HG22	1:Z:515:ARG:HH11	1.77	0.49
1:a:112:VAL:O	1:a:116:ILE:HG13	2.12	0.49
1:b:394:ILE:HD11	1:n:419:SER:HB2	1.95	0.49
1:d:32:LEU:HB3	1:p:543:VAL:HG21	1.94	0.49
1:d:59:ARG:HG2	1:l:94:GLU:OE1	2.13	0.49
1:f:40:SER:O	1:f:42:LYS:N	2.45	0.49
1:j:389:ALA:HB1	1:j:400:ASN:OD1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:394:ILE:HD11	1:v:419:SER:HB2	1.95	0.49
1:q:55:THR:O	1:q:59:ARG:HG2	2.12	0.49
1:t:441:GLN:HB3	1:t:448:ALA:H	1.78	0.49
1:A:73:SER:O	1:A:77:THR:HG23	2.13	0.49
1:B:404:VAL:HB	1:B:407:LYS:HB2	1.94	0.49
1:E:521:ALA:HB1	1:E:526:GLU:HG3	1.95	0.49
1:E:525:THR:HG22	1:b:15:GLN:NE2	2.28	0.49
1:H:306:ASN:H	1:H:314:ASN:HD22	1.60	0.49
1:J:355:LEU:N	1:J:361:ALA:HB2	2.28	0.49
1:K:41:ALA:HB2	1:K:48:MET:SD	2.52	0.49
1:L:7:THR:HG1	1:T:516:SER:HG	1.33	0.49
1:L:441:GLN:HB3	1:L:448:ALA:H	1.77	0.49
1:M:151:ALA:HB1	1:U:93:ARG:NH2	2.27	0.49
1:M:413:ILE:HD12	1:Y:396:THR:HG22	1.94	0.49
1:N:52:ASN:ND2	1:V:86:ASN:HD21	2.10	0.49
1:O:345:THR:HB	1:O:347:TYR:CE1	2.47	0.49
1:S:5:ILE:HG12	1:a:523:TYR:HE2	1.76	0.49
1:S:93:ARG:NH1	1:S:477:ASP:OD1	2.46	0.49
1:U:202:ASP:OD1	1:U:202:ASP:N	2.46	0.49
1:X:66:ARG:HH22	1:j:37:ARG:HH21	1.61	0.49
1:X:393:ALA:HB3	1:X:398:ASP:HA	1.95	0.49
1:Z:277:SER:OG	1:Z:289:ASP:OD1	2.23	0.49
1:b:304:PHE:N	1:b:314:ASN:O	2.46	0.49
1:e:110:ASP:HA	1:e:177:ASN:ND2	2.26	0.49
1:e:399:SER:HB3	1:q:397:THR:HA	1.95	0.49
1:h:42:LYS:O	1:p:495:ASN:ND2	2.34	0.49
1:j:52:ASN:ND2	1:r:86:ASN:HD21	2.10	0.49
1:j:200:GLN:N	1:j:204:THR:O	2.43	0.49
1:k:317:SER:OG	1:k:321:THR:OG1	2.22	0.49
1:p:127:SER:CB	1:p:165:SER:HB3	2.43	0.49
1:t:352:ALA:HB3	1:t:362:THR:HG23	1.95	0.49
1:A:311:LEU:HB3	1:A:331:SER:OG	2.12	0.49
1:B:279:GLU:HB2	1:B:343:GLY:HA3	1.95	0.49
1:B:505:ASN:O	1:B:509:ASN:ND2	2.46	0.49
1:D:410:LEU:HD12	1:D:411:THR:N	2.27	0.49
1:E:25:LEU:HB2	1:E:533:ALA:HB1	1.95	0.49
1:F:22:GLN:OE1	1:R:2:ALA:N	2.46	0.49
1:G:41:ALA:HB2	1:G:48:MET:SD	2.53	0.49
1:G:86:ASN:HD21	1:p:52:ASN:ND2	2.10	0.49
1:G:113:GLN:NE2	1:G:176:VAL:H	2.10	0.49
1:H:399:SER:OG	1:T:396:THR:O	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:182:THR:O	1:O:464:SER:N	2.46	0.49
1:P:157:ILE:HG12	1:P:496:ARG:NH2	2.27	0.49
1:R:301:ASN:OD1	1:R:302:ALA:N	2.46	0.49
1:U:58:VAL:HG23	1:U:508:VAL:HG13	1.95	0.49
1:X:290:VAL:HG12	1:X:298:ILE:HG12	1.95	0.49
1:Y:312:THR:HB	1:c:316:ALA:HB3	1.94	0.49
1:Y:416:PHE:CE2	1:Y:421:LYS:HG3	2.48	0.49
1:Z:41:ALA:N	1:h:79:GLU:OE2	2.46	0.49
1:b:230:ALA:HB2	1:b:236:THR:HG23	1.94	0.49
1:b:394:ILE:CD1	1:n:419:SER:HB2	2.43	0.49
1:b:500:THR:O	1:b:504:LEU:HD23	2.13	0.49
1:c:32:LEU:HB3	1:o:543:VAL:HG21	1.95	0.49
1:c:171:LEU:O	1:c:173:GLY:N	2.46	0.49
1:d:22:GLN:OE1	1:p:2:ALA:N	2.46	0.49
1:d:212:ASN:HA	1:d:414:GLN:HG3	1.94	0.49
1:e:394:ILE:O	1:e:398:ASP:N	2.46	0.49
1:f:399:SER:HB3	1:r:397:THR:HA	1.94	0.49
1:h:140:ASP:HA	1:h:163:GLU:HG3	1.94	0.49
1:j:95:LEU:HD11	1:j:116:ILE:HG12	1.94	0.49
1:j:248:TYR:CE2	1:j:250:LYS:HG3	2.48	0.49
1:j:355:LEU:HG	1:j:357:TYR:H	1.78	0.49
1:l:279:GLU:O	1:l:343:GLY:N	2.38	0.49
1:m:333:GLY:H	1:m:337:ASN:HB2	1.76	0.49
1:n:76:GLN:HG3	1:n:494:GLN:NE2	2.27	0.49
1:s:40:SER:O	1:s:42:LYS:HG3	2.12	0.49
1:u:55:THR:O	1:u:59:ARG:HG2	2.12	0.49
1:A:304:PHE:HB2	1:A:314:ASN:O	2.12	0.49
1:B:101:ASN:OD1	1:B:102:GLY:N	2.46	0.49
1:C:316:ALA:HB3	1:V:312:THR:HB	1.93	0.49
1:D:141:SER:O	1:D:141:SER:OG	2.31	0.49
1:D:297:THR:OG1	1:D:301:ASN:O	2.31	0.49
1:G:279:GLU:O	1:G:343:GLY:N	2.43	0.49
1:G:397:THR:HA	1:S:399:SER:HB3	1.95	0.49
1:H:35:GLY:O	1:q:6:ASN:ND2	2.46	0.49
1:H:73:SER:O	1:H:77:THR:HG23	2.13	0.49
1:H:86:ASN:OD1	1:H:90:GLN:NE2	2.44	0.49
1:H:346:LYS:O	1:H:346:LYS:HD3	2.13	0.49
1:H:433:GLY:N	1:H:438:THR:O	2.38	0.49
1:I:402:THR:O	1:I:410:LEU:HD13	2.13	0.49
1:N:73:SER:O	1:N:77:THR:HG23	2.13	0.49
1:O:355:LEU:N	1:O:361:ALA:HB2	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:253:ASP:N	1:Q:253:ASP:OD1	2.46	0.49
1:R:505:ASN:O	1:R:509:ASN:ND2	2.46	0.49
1:S:4:VAL:HG21	1:a:520:ASP:CG	2.37	0.49
1:U:457:LYS:HG3	1:U:458:LEU:H	1.77	0.49
1:Y:113:GLN:HE21	1:Y:176:VAL:H	1.61	0.49
1:c:185:ARG:NH2	1:c:191:ASP:OD2	2.46	0.49
1:c:278:TYR:CD1	1:c:344:GLY:HA3	2.48	0.49
1:e:403:TRP:CD1	1:e:408:GLY:HA2	2.48	0.49
1:g:52:ASN:ND2	1:o:86:ASN:HD21	2.10	0.49
1:i:162:SER:OG	1:i:163:GLU:OE1	2.26	0.49
1:m:73:SER:O	1:m:77:THR:HG23	2.13	0.49
1:m:197:GLY:N	1:m:205:TYR:OH	2.37	0.49
1:A:346:LYS:O	1:A:346:LYS:HD3	2.13	0.48
1:B:73:SER:O	1:B:77:THR:HG23	2.12	0.48
1:D:329:LEU:HA	1:D:332:VAL:HG12	1.95	0.48
1:F:345:THR:HB	1:F:347:TYR:CE1	2.48	0.48
1:H:96:THR:O	1:H:100:SER:OG	2.31	0.48
1:I:206:LYS:HE3	1:I:429:VAL:HG22	1.93	0.48
1:M:157:ILE:HG21	1:M:497:LEU:HD21	1.95	0.48
1:M:350:SER:N	1:M:364:ALA:O	2.46	0.48
1:N:432:VAL:HA	1:N:439:ALA:HA	1.94	0.48
1:P:113:GLN:NE2	1:P:175:ASN:HA	2.27	0.48
1:P:171:LEU:C	1:P:173:GLY:H	2.20	0.48
1:Q:500:THR:O	1:Q:504:LEU:HD23	2.12	0.48
1:R:278:TYR:CD1	1:R:344:GLY:HA3	2.46	0.48
1:T:58:VAL:HG23	1:T:508:VAL:HG13	1.95	0.48
1:T:206:LYS:NZ	1:T:427:GLY:O	2.42	0.48
1:U:41:ALA:N	1:c:79:GLU:OE2	2.46	0.48
1:V:165:SER:OG	1:V:166:VAL:O	2.29	0.48
1:V:202:ASP:OD1	1:V:202:ASP:N	2.44	0.48
1:Y:287:SER:HB2	1:c:301:ASN:HD21	1.77	0.48
1:Z:101:ASN:OD1	1:Z:102:GLY:N	2.45	0.48
1:Z:416:PHE:CD2	1:Z:421:LYS:HG3	2.47	0.48
1:a:431:VAL:O	1:a:440:GLY:N	2.44	0.48
1:b:186:SER:HB3	1:b:449:LYS:HZ1	1.79	0.48
1:d:164:ILE:HD11	1:d:486:LEU:HD22	1.94	0.48
1:f:64:ALA:CB	1:f:150:GLY:H	2.25	0.48
1:g:253:ASP:HA	1:g:263:LEU:HD13	1.94	0.48
1:g:389:ALA:HB1	1:g:400:ASN:OD1	2.13	0.48
1:i:211:PHE:HE2	1:i:426:THR:H	1.61	0.48
1:l:192:VAL:HB	1:l:205:TYR:CD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:288:PHE:HB3	1:o:290:VAL:HG13	1.95	0.48
1:q:555:LEU:HD13	1:q:558:LEU:HD21	1.94	0.48
1:t:239:TYR:HB3	1:t:246:PHE:HD2	1.77	0.48
1:v:410:LEU:HD12	1:v:411:THR:N	2.27	0.48
1:B:253:ASP:OD1	1:B:253:ASP:N	2.45	0.48
1:C:401:ASN:HB3	1:C:410:LEU:HD21	1.95	0.48
1:F:496:ARG:O	1:F:500:THR:HG23	2.14	0.48
1:G:81:ALA:O	1:G:85:VAL:HG23	2.13	0.48
1:H:536:LEU:HD22	1:e:5:ILE:HD12	1.94	0.48
1:I:496:ARG:O	1:I:500:THR:HG23	2.12	0.48
1:J:36:LEU:HD22	1:J:519:GLN:HG2	1.95	0.48
1:J:496:ARG:O	1:J:500:THR:HG23	2.13	0.48
1:K:153:ASP:H	1:S:473:LEU:HD12	1.77	0.48
1:L:522:ASP:O	1:L:526:GLU:HG2	2.13	0.48
1:M:110:ASP:HA	1:M:177:ASN:HD22	1.78	0.48
1:O:346:LYS:O	1:O:346:LYS:HD3	2.13	0.48
1:P:311:LEU:HB3	1:P:331:SER:HB2	1.94	0.48
1:R:206:LYS:NZ	1:R:427:GLY:O	2.46	0.48
1:U:277:SER:OG	1:U:289:ASP:OD1	2.21	0.48
1:Y:59:ARG:HD2	1:g:94:GLU:HB2	1.95	0.48
1:Z:385:ILE:HA	1:Z:405:ASP:HB2	1.94	0.48
1:a:40:SER:O	1:a:42:LYS:N	2.46	0.48
1:d:151:ALA:HB1	1:l:93:ARG:NH2	2.28	0.48
1:g:403:TRP:CD1	1:g:408:GLY:HA2	2.47	0.48
1:g:414:GLN:HG2	1:g:424:ALA:HA	1.95	0.48
1:h:256:VAL:HG12	1:h:259:ASP:H	1.78	0.48
1:k:42:LYS:HD3	1:s:494:GLN:OE1	2.13	0.48
1:l:55:THR:O	1:l:59:ARG:HG2	2.13	0.48
1:o:192:VAL:HB	1:o:205:TYR:CE2	2.48	0.48
1:p:441:GLN:HB3	1:p:448:ALA:H	1.77	0.48
1:q:131:ASP:OD1	1:q:132:PHE:N	2.46	0.48
1:A:451:LEU:HD22	1:A:462:THR:HA	1.95	0.48
1:B:113:GLN:NE2	1:B:175:ASN:HA	2.27	0.48
1:C:112:VAL:O	1:C:116:ILE:HG13	2.13	0.48
1:G:98:GLN:HG2	1:G:104:TYR:HE2	1.78	0.48
1:G:126:ILE:HG12	1:S:503:ASN:ND2	2.28	0.48
1:H:86:ASN:HD21	1:q:52:ASN:ND2	2.12	0.48
1:K:86:ASN:HD21	1:t:52:ASN:ND2	2.11	0.48
1:K:543:VAL:HG22	1:p:29:ILE:HG23	1.96	0.48
1:L:175:ASN:ND2	1:L:467:ASP:O	2.46	0.48
1:O:81:ALA:O	1:O:85:VAL:HG23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:177:ASN:HD21	1:O:179:LYS:HZ3	1.59	0.48
1:P:390:VAL:HG23	1:P:403:TRP:HH2	1.77	0.48
1:R:66:ARG:HH12	1:d:37:ARG:NH2	2.11	0.48
1:R:393:ALA:HB3	1:R:398:ASP:HA	1.95	0.48
1:S:5:ILE:HG12	1:a:523:TYR:CE2	2.49	0.48
1:T:93:ARG:NH1	1:T:477:ASP:OD2	2.47	0.48
1:V:324:THR:HG23	1:V:327:ASP:H	1.77	0.48
1:W:187:ALA:H	1:W:451:LEU:HA	1.77	0.48
1:Y:395:ALA:HA	1:Y:398:ASP:HB2	1.94	0.48
1:Z:249:THR:HB	1:Z:366:VAL:HG22	1.95	0.48
1:a:91:ARG:HG2	1:a:119:ARG:NH2	2.28	0.48
1:a:98:GLN:HG2	1:a:104:TYR:HE2	1.77	0.48
1:d:58:VAL:O	1:d:62:THR:HG23	2.13	0.48
1:d:253:ASP:HA	1:d:263:LEU:HD13	1.94	0.48
1:h:88:HIS:CE1	1:h:119:ARG:HH11	2.30	0.48
1:h:288:PHE:HB3	1:h:290:VAL:HG13	1.95	0.48
1:h:394:ILE:CD1	1:t:419:SER:HB2	2.43	0.48
1:l:239:TYR:HB3	1:l:246:PHE:HD2	1.78	0.48
1:n:124:ASP:O	1:n:127:SER:OG	2.26	0.48
1:n:182:THR:HG23	1:n:466:GLY:HA2	1.94	0.48
1:p:40:SER:O	1:p:42:LYS:HG3	2.13	0.48
1:s:73:SER:O	1:s:77:THR:HG23	2.14	0.48
1:s:297:THR:OG1	1:s:301:ASN:O	2.30	0.48
1:A:126:ILE:HG12	1:P:503:ASN:ND2	2.28	0.48
1:A:197:GLY:N	1:A:205:TYR:OH	2.47	0.48
1:B:376:VAL:HA	1:B:379:VAL:HG12	1.95	0.48
1:B:495:ASN:ND2	1:G:42:LYS:O	2.37	0.48
1:C:390:VAL:HG23	1:C:403:TRP:HH2	1.77	0.48
1:F:126:ILE:HG12	1:R:503:ASN:ND2	2.29	0.48
1:I:288:PHE:HB3	1:I:290:VAL:HG23	1.95	0.48
1:J:171:LEU:HD22	1:J:174:PHE:CD1	2.47	0.48
1:N:81:ALA:O	1:N:85:VAL:HG23	2.13	0.48
1:N:145:LEU:HB2	1:N:159:LEU:HD12	1.95	0.48
1:N:496:ARG:O	1:N:500:THR:HG23	2.13	0.48
1:O:113:GLN:NE2	1:O:176:VAL:H	2.10	0.48
1:P:277:SER:OG	1:P:289:ASP:OD1	2.23	0.48
1:R:129:GLN:HG3	1:d:155:GLU:HG3	1.95	0.48
1:S:16:ASN:HD21	1:a:509:ASN:CG	2.20	0.48
1:T:376:VAL:HA	1:T:379:VAL:HG12	1.94	0.48
1:V:4:VAL:HG21	1:d:520:ASP:CG	2.38	0.48
1:Y:287:SER:O	1:c:301:ASN:ND2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:59:ARG:HD2	1:h:94:GLU:HB2	1.95	0.48
1:Z:355:LEU:HB2	1:Z:361:ALA:HB2	1.94	0.48
1:b:390:VAL:HG23	1:b:403:TRP:HH2	1.78	0.48
1:b:495:ASN:HA	1:b:498:GLU:OE1	2.12	0.48
1:c:113:GLN:NE2	1:c:175:ASN:HA	2.28	0.48
1:f:403:TRP:CD1	1:f:408:GLY:HA2	2.47	0.48
1:g:59:ARG:HG2	1:o:94:GLU:OE1	2.14	0.48
1:g:211:PHE:HE2	1:g:426:THR:H	1.60	0.48
1:g:396:THR:O	1:s:399:SER:OG	2.24	0.48
1:i:58:VAL:O	1:i:62:THR:HG23	2.14	0.48
1:k:249:THR:HG22	1:k:366:VAL:HG22	1.95	0.48
1:n:39:ASN:C	1:n:39:ASN:ND2	2.69	0.48
1:o:515:ARG:HA	1:o:518:ILE:HG22	1.95	0.48
1:p:394:ILE:HB	1:p:397:THR:HG22	1.94	0.48
1:q:239:TYR:HB3	1:q:246:PHE:HD2	1.78	0.48
1:q:410:LEU:HD12	1:q:411:THR:N	2.28	0.48
1:r:73:SER:O	1:r:77:THR:HG23	2.13	0.48
1:r:211:PHE:CE1	1:r:426:THR:HG23	2.48	0.48
1:t:192:VAL:HB	1:t:205:TYR:CE2	2.48	0.48
1:B:35:GLY:C	1:G:6:ASN:HD21	2.22	0.48
1:C:230:ALA:HB2	1:C:236:THR:HG23	1.96	0.48
1:D:410:LEU:HG	1:D:413:ILE:H	1.77	0.48
1:H:126:ILE:HG12	1:T:503:ASN:ND2	2.28	0.48
1:H:531:SER:O	1:H:535:ILE:HG12	2.13	0.48
1:J:399:SER:OG	1:V:396:THR:O	2.25	0.48
1:K:73:SER:O	1:K:77:THR:HG23	2.13	0.48
1:Q:66:ARG:HH22	1:c:37:ARG:HH21	1.62	0.48
1:Q:390:VAL:HG23	1:Q:403:TRP:HH2	1.78	0.48
1:S:253:ASP:HA	1:S:263:LEU:HD12	1.95	0.48
1:T:4:VAL:HG21	1:b:520:ASP:CG	2.37	0.48
1:T:451:LEU:HD13	1:T:462:THR:HA	1.94	0.48
1:V:376:VAL:HA	1:V:379:VAL:HG12	1.94	0.48
1:W:4:VAL:HG21	1:e:520:ASP:CG	2.37	0.48
1:W:251:THR:HG22	1:W:364:ALA:HB2	1.95	0.48
1:Z:376:VAL:HA	1:Z:379:VAL:HG12	1.94	0.48
1:c:84:GLU:OE2	1:o:499:SER:OG	2.29	0.48
1:c:230:ALA:HB2	1:c:236:THR:HG23	1.95	0.48
1:g:171:LEU:C	1:g:173:GLY:H	2.22	0.48
1:h:278:TYR:CE2	1:h:292:ALA:HB3	2.49	0.48
1:i:278:TYR:CD1	1:i:344:GLY:HA3	2.49	0.48
1:k:52:ASN:ND2	1:s:86:ASN:HD21	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:355:LEU:HB2	1:k:361:ALA:HB2	1.96	0.48
1:p:73:SER:O	1:p:77:THR:HG23	2.13	0.48
1:p:411:THR:O	1:p:414:GLN:NE2	2.45	0.48
1:r:394:ILE:HB	1:r:397:THR:HG22	1.94	0.48
1:t:394:ILE:HB	1:t:397:THR:HG22	1.95	0.48
1:u:345:THR:HB	1:u:347:TYR:CE1	2.49	0.48
1:v:279:GLU:O	1:v:343:GLY:N	2.42	0.48
1:A:311:LEU:HD12	1:A:336:ALA:HB3	1.96	0.48
1:B:86:ASN:HD21	1:G:52:ASN:ND2	2.11	0.48
1:B:278:TYR:CD1	1:B:344:GLY:HA3	2.47	0.48
1:E:304:PHE:HB2	1:E:314:ASN:O	2.13	0.48
1:F:99:ALA:HB2	1:F:112:VAL:HG11	1.96	0.48
1:I:407:LYS:HZ3	1:I:409:GLU:HB3	1.78	0.48
1:K:15:GLN:HG2	1:e:524:ALA:HB1	1.94	0.48
1:L:182:THR:O	1:L:464:SER:N	2.47	0.48
1:L:307:ALA:O	1:L:311:LEU:N	2.31	0.48
1:N:182:THR:O	1:N:464:SER:N	2.46	0.48
1:N:311:LEU:HB3	1:N:331:SER:OG	2.14	0.48
1:R:113:GLN:NE2	1:R:175:ASN:HA	2.29	0.48
1:R:253:ASP:OD1	1:R:253:ASP:N	2.47	0.48
1:S:92:ILE:HG22	1:S:476:LEU:HD11	1.95	0.48
1:T:5:ILE:HG12	1:b:523:TYR:HE2	1.77	0.48
1:V:450:VAL:HG21	1:V:458:LEU:HD12	1.94	0.48
1:W:41:ALA:N	1:e:79:GLU:OE2	2.46	0.48
1:W:66:ARG:HH12	1:i:37:ARG:NH2	2.12	0.48
1:W:376:VAL:HA	1:W:379:VAL:HG12	1.95	0.48
1:Y:171:LEU:C	1:Y:173:GLY:H	2.22	0.48
1:d:112:VAL:O	1:d:116:ILE:HG13	2.13	0.48
1:d:389:ALA:HB1	1:d:400:ASN:OD1	2.14	0.48
1:e:355:LEU:HB2	1:e:361:ALA:HB2	1.95	0.48
1:f:91:ARG:HG2	1:f:119:ARG:NH2	2.29	0.48
1:f:110:ASP:HA	1:f:177:ASN:ND2	2.27	0.48
1:f:171:LEU:C	1:f:173:GLY:H	2.22	0.48
1:g:110:ASP:HA	1:g:177:ASN:ND2	2.28	0.48
1:k:95:LEU:HD11	1:k:116:ILE:HG12	1.95	0.48
1:m:279:GLU:O	1:m:343:GLY:N	2.42	0.48
1:A:345:THR:HB	1:A:347:TYR:CE1	2.48	0.48
1:C:171:LEU:C	1:C:173:GLY:H	2.21	0.48
1:F:36:LEU:HD22	1:F:519:GLN:HG2	1.96	0.48
1:F:212:ASN:HA	1:F:414:GLN:HG3	1.96	0.48
1:F:394:ILE:HG21	1:R:420:TYR:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:144:PRO:HB3	1:H:160:ASN:H	1.78	0.48
1:I:197:GLY:N	1:I:205:TYR:OH	2.45	0.48
1:I:316:ALA:HB3	1:v:312:THR:HB	1.96	0.48
1:L:398:ASP:OD1	1:L:399:SER:N	2.42	0.48
1:P:249:THR:HB	1:P:366:VAL:HG22	1.94	0.48
1:S:59:ARG:HD2	1:a:94:GLU:HB2	1.95	0.48
1:S:73:SER:O	1:S:77:THR:HG23	2.13	0.48
1:V:253:ASP:N	1:V:253:ASP:OD1	2.46	0.48
1:W:59:ARG:HD2	1:e:94:GLU:HB2	1.96	0.48
1:a:113:GLN:NE2	1:a:175:ASN:HA	2.28	0.48
1:b:91:ARG:HG2	1:b:119:ARG:NH2	2.29	0.48
1:c:112:VAL:O	1:c:116:ILE:HG13	2.13	0.48
1:f:248:TYR:HE2	1:f:250:LYS:HG3	1.79	0.48
1:k:171:LEU:HB3	1:k:174:PHE:HB2	1.95	0.48
1:p:410:LEU:HD12	1:p:411:THR:N	2.28	0.48
1:q:192:VAL:HB	1:q:205:TYR:CE2	2.49	0.48
1:r:239:TYR:CE2	1:r:248:TYR:HB2	2.49	0.48
1:s:192:VAL:O	1:s:205:TYR:OH	2.21	0.48
1:A:225:ASP:HB3	1:A:391:THR:O	2.13	0.48
1:C:91:ARG:HG2	1:C:119:ARG:NH2	2.28	0.48
1:C:546:GLN:O	1:C:550:VAL:HG23	2.13	0.48
1:D:204:THR:HA	1:D:431:VAL:HA	1.96	0.48
1:F:91:ARG:HG2	1:F:119:ARG:HH21	1.78	0.48
1:H:496:ARG:O	1:H:500:THR:HG23	2.14	0.48
1:K:162:SER:OG	1:K:163:GLU:OE2	2.29	0.48
1:L:225:ASP:HB3	1:L:391:THR:O	2.13	0.48
1:Q:376:VAL:HA	1:Q:379:VAL:HG12	1.95	0.48
1:T:290:VAL:HG12	1:T:298:ILE:HG12	1.96	0.48
1:V:281:SER:HA	1:V:286:ALA:HB3	1.95	0.48
1:W:316:ALA:HB2	1:a:288:PHE:CE2	2.49	0.48
1:Z:398:ASP:OD1	1:Z:399:SER:N	2.46	0.48
1:Z:471:ASP:HB3	1:Z:474:LYS:HD3	1.96	0.48
1:b:324:THR:HG23	1:b:327:ASP:H	1.77	0.48
1:c:88:HIS:CE1	1:c:119:ARG:HH11	2.32	0.48
1:c:314:ASN:C	1:c:314:ASN:ND2	2.68	0.48
1:e:394:ILE:HD13	1:q:420:TYR:H	1.79	0.48
1:g:396:THR:HG21	1:s:420:TYR:HD2	1.79	0.48
1:h:91:ARG:HG2	1:h:119:ARG:NH2	2.28	0.48
1:h:144:PRO:HB3	1:h:160:ASN:HA	1.95	0.48
1:h:178:GLY:HA2	1:h:468:LYS:NZ	2.29	0.48
1:j:314:ASN:C	1:j:314:ASN:ND2	2.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:171:LEU:O	1:k:173:GLY:N	2.46	0.48
1:k:493:VAL:O	1:k:497:LEU:HD23	2.13	0.48
1:l:98:GLN:HG2	1:l:104:TYR:HE2	1.79	0.48
1:r:187:ALA:HB2	1:r:452:VAL:HG23	1.95	0.48
1:s:283:GLY:C	1:s:284:LYS:HD3	2.39	0.48
1:t:91:ARG:HG2	1:t:119:ARG:NH2	2.29	0.48
1:t:200:GLN:NE2	1:t:201:GLY:O	2.47	0.48
1:v:192:VAL:HB	1:v:205:TYR:CE2	2.49	0.48
1:v:394:ILE:HB	1:v:397:THR:HG22	1.95	0.48
1:G:167:LYS:N	1:G:172:ASP:OD1	2.41	0.48
1:H:92:ILE:HD11	1:H:119:ARG:HB3	1.96	0.48
1:K:25:LEU:HB2	1:K:533:ALA:HB1	1.96	0.48
1:K:91:ARG:HG2	1:K:119:ARG:NH2	2.28	0.48
1:K:451:LEU:HD22	1:K:462:THR:HA	1.95	0.48
1:L:171:LEU:C	1:L:173:GLY:H	2.22	0.48
1:M:536:LEU:HD22	1:j:5:ILE:HD12	1.95	0.48
1:N:98:GLN:HG2	1:N:104:TYR:HE2	1.79	0.48
1:R:46:ALA:O	1:R:50:ILE:HG12	2.13	0.48
1:R:77:THR:HG22	1:d:510:ASN:HB3	1.95	0.48
1:R:496:ARG:O	1:R:500:THR:HG23	2.13	0.48
1:T:275:SER:HB2	1:T:278:TYR:HE1	1.79	0.48
1:U:101:ASN:OD1	1:U:102:GLY:N	2.47	0.48
1:Y:310:GLU:O	1:Y:312:THR:HG23	2.14	0.48
1:a:334:THR:HG23	1:a:355:LEU:HB3	1.96	0.48
1:c:99:ALA:HB1	1:c:176:VAL:HG11	1.96	0.48
1:c:167:LYS:HA	1:c:172:ASP:HB2	1.94	0.48
1:c:403:TRP:CD1	1:c:408:GLY:HA2	2.48	0.48
1:c:441:GLN:HG2	1:c:445:ALA:HB3	1.96	0.48
1:d:282:THR:OG1	1:d:311:LEU:O	2.27	0.48
1:f:495:ASN:HA	1:f:498:GLU:OE1	2.13	0.48
1:g:500:THR:O	1:g:504:LEU:HD23	2.14	0.48
1:i:171:LEU:HD22	1:i:174:PHE:CD1	2.49	0.48
1:i:394:ILE:CD1	1:u:419:SER:HB2	2.44	0.48
1:i:496:ARG:O	1:i:500:THR:HG23	2.13	0.48
1:l:127:SER:CB	1:l:165:SER:HB3	2.44	0.48
1:l:288:PHE:HB3	1:l:290:VAL:HG13	1.96	0.48
1:m:131:ASP:OD1	1:m:132:PHE:N	2.47	0.48
1:n:394:ILE:HB	1:n:397:THR:HG22	1.95	0.48
1:o:73:SER:O	1:o:77:THR:HG23	2.13	0.48
1:o:388:ALA:C	1:o:403:TRP:HD1	2.22	0.48
1:r:204:THR:HA	1:r:431:VAL:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:211:PHE:HE1	1:t:426:THR:HG23	1.78	0.48
1:u:192:VAL:HB	1:u:205:TYR:CE2	2.49	0.48
1:A:355:LEU:N	1:A:361:ALA:HB2	2.28	0.48
1:B:93:ARG:NH2	1:G:151:ALA:HB1	2.29	0.48
1:B:290:VAL:HG12	1:B:298:ILE:HG12	1.96	0.48
1:C:248:TYR:HE2	1:C:250:LYS:HG3	1.79	0.48
1:C:355:LEU:HB2	1:C:361:ALA:HB2	1.96	0.48
1:E:225:ASP:HB3	1:E:391:THR:O	2.13	0.48
1:E:316:ALA:HB2	1:r:288:PHE:HE2	1.77	0.48
1:E:345:THR:HB	1:E:347:TYR:CE1	2.49	0.48
1:F:326:ASP:OD1	1:F:327:ASP:N	2.47	0.48
1:J:35:GLY:O	1:s:6:ASN:ND2	2.47	0.48
1:J:499:SER:OG	1:o:88:HIS:NE2	2.47	0.48
1:K:333:GLY:H	1:K:337:ASN:HB2	1.78	0.48
1:N:25:LEU:HB2	1:N:533:ALA:HB1	1.95	0.48
1:N:93:ARG:NH1	1:N:477:ASP:OD1	2.47	0.48
1:U:211:PHE:CD1	1:U:416:PHE:HA	2.49	0.48
1:U:451:LEU:HD13	1:U:462:THR:HA	1.95	0.48
1:V:105:SER:OG	1:V:108:GLN:OE1	2.18	0.48
1:Y:101:ASN:OD1	1:Y:102:GLY:N	2.47	0.48
1:b:78:THR:HG21	1:b:161:LEU:HD12	1.95	0.48
1:b:88:HIS:CE1	1:b:119:ARG:HH11	2.31	0.48
1:d:546:GLN:O	1:d:550:VAL:HG23	2.14	0.48
1:e:493:VAL:O	1:e:497:LEU:HD23	2.13	0.48
1:i:171:LEU:O	1:i:173:GLY:N	2.46	0.48
1:u:555:LEU:HD13	1:u:558:LEU:HD21	1.96	0.48
1:B:416:PHE:CE2	1:B:421:LYS:HG3	2.49	0.47
1:E:274:ILE:HG23	1:E:293:ALA:HA	1.96	0.47
1:F:291:ASP:N	1:F:297:THR:O	2.43	0.47
1:F:317:SER:HA	1:F:321:THR:HG21	1.96	0.47
1:F:333:GLY:N	1:F:337:ASN:HB2	2.29	0.47
1:F:411:THR:O	1:F:414:GLN:NE2	2.46	0.47
1:G:420:TYR:H	1:S:394:ILE:HG21	1.78	0.47
1:I:158:THR:HG22	1:I:160:ASN:OD1	2.13	0.47
1:J:182:THR:O	1:J:464:SER:N	2.47	0.47
1:J:345:THR:HG22	1:J:345:THR:O	2.14	0.47
1:K:188:THR:N	1:K:191:ASP:OD2	2.41	0.47
1:K:311:LEU:HB3	1:K:331:SER:OG	2.14	0.47
1:K:407:LYS:HZ3	1:K:409:GLU:HB3	1.77	0.47
1:K:464:SER:OG	1:K:465:ALA:N	2.47	0.47
1:M:110:ASP:OD1	1:M:177:ASN:ND2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:274:ILE:HG23	1:M:293:ALA:HA	1.94	0.47
1:M:345:THR:HB	1:M:347:TYR:HE1	1.79	0.47
1:N:279:GLU:O	1:N:343:GLY:N	2.45	0.47
1:O:131:ASP:OD1	1:O:132:PHE:N	2.47	0.47
1:P:505:ASN:O	1:P:509:ASN:ND2	2.47	0.47
1:T:385:ILE:HA	1:T:405:ASP:HB2	1.94	0.47
1:U:336:ALA:HB1	1:U:340:VAL:HB	1.95	0.47
1:U:419:SER:OG	1:U:421:LYS:NZ	2.47	0.47
1:V:148:GLN:NE2	1:V:153:ASP:OD1	2.44	0.47
1:X:171:LEU:C	1:X:173:GLY:H	2.22	0.47
1:X:249:THR:HB	1:X:366:VAL:HG22	1.96	0.47
1:Y:16:ASN:HD21	1:g:509:ASN:CG	2.20	0.47
1:Z:46:ALA:O	1:Z:50:ILE:HG12	2.14	0.47
1:Z:157:ILE:HG23	1:Z:496:ARG:HH21	1.79	0.47
1:Z:287:SER:O	1:d:301:ASN:ND2	2.46	0.47
1:a:396:THR:HG21	1:m:420:TYR:HD2	1.79	0.47
1:c:421:LYS:HD3	1:c:422:ILE:N	2.29	0.47
1:d:171:LEU:O	1:d:173:GLY:N	2.47	0.47
1:e:112:VAL:O	1:e:116:ILE:HG13	2.13	0.47
1:f:546:GLN:O	1:f:550:VAL:HG23	2.14	0.47
1:g:88:HIS:ND1	1:g:119:ARG:HD2	2.29	0.47
1:j:394:ILE:CD1	1:v:419:SER:HB2	2.44	0.47
1:t:410:LEU:HD12	1:t:411:THR:N	2.29	0.47
1:v:171:LEU:O	1:v:173:GLY:N	2.46	0.47
1:B:391:THR:OG1	1:B:400:ASN:OD1	2.25	0.47
1:B:416:PHE:CD2	1:B:421:LYS:HG3	2.49	0.47
1:D:133:ASN:HD21	1:F:50:ILE:HD12	1.80	0.47
1:E:279:GLU:O	1:E:343:GLY:N	2.43	0.47
1:F:398:ASP:OD1	1:F:399:SER:N	2.42	0.47
1:G:317:SER:HA	1:G:321:THR:HG21	1.96	0.47
1:I:126:ILE:HG12	1:U:503:ASN:ND2	2.29	0.47
1:K:52:ASN:ND2	1:S:86:ASN:HD21	2.12	0.47
1:K:260:VAL:HG21	1:K:335:GLU:HG3	1.96	0.47
1:L:212:ASN:HA	1:L:414:GLN:HG3	1.96	0.47
1:L:497:LEU:O	1:L:500:THR:OG1	2.23	0.47
1:M:157:ILE:HG23	1:M:496:ARG:NH2	2.29	0.47
1:M:311:LEU:HB3	1:M:331:SER:OG	2.14	0.47
1:M:500:THR:HG22	1:r:125:ARG:NH2	2.29	0.47
1:N:355:LEU:N	1:N:361:ALA:HB2	2.28	0.47
1:N:420:TYR:N	1:Z:394:ILE:HG21	2.27	0.47
1:R:355:LEU:HB2	1:R:361:ALA:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:394:ILE:O	1:R:398:ASP:N	2.48	0.47
1:S:202:ASP:OD1	1:S:202:ASP:N	2.45	0.47
1:Y:93:ARG:O	1:Y:97:VAL:HG23	2.15	0.47
1:Z:474:LYS:N	1:Z:474:LYS:HD2	2.30	0.47
1:c:58:VAL:O	1:c:62:THR:HG23	2.14	0.47
1:e:394:ILE:HD11	1:q:419:SER:HB2	1.95	0.47
1:k:59:ARG:HG2	1:s:94:GLU:OE1	2.13	0.47
1:k:112:VAL:O	1:k:116:ILE:HG13	2.14	0.47
1:k:288:PHE:HB3	1:k:290:VAL:HG13	1.95	0.47
1:m:144:PRO:HB2	1:m:158:THR:HG23	1.95	0.47
1:q:40:SER:O	1:q:42:LYS:N	2.47	0.47
1:u:445:ALA:HB1	1:u:448:ALA:HB2	1.96	0.47
1:B:231:VAL:HA	1:B:386:THR:HG22	1.95	0.47
1:C:58:VAL:HG23	1:C:508:VAL:HG13	1.96	0.47
1:C:171:LEU:HD21	1:C:476:LEU:HD23	1.95	0.47
1:C:389:ALA:HB1	1:C:400:ASN:OD1	2.13	0.47
1:D:474:LYS:NZ	1:c:153:ASP:OD1	2.40	0.47
1:E:319:ALA:HB2	1:r:284:LYS:NZ	2.29	0.47
1:F:175:ASN:ND2	1:F:467:ASP:O	2.47	0.47
1:F:288:PHE:HB3	1:F:290:VAL:HG13	1.96	0.47
1:G:496:ARG:O	1:G:500:THR:HG23	2.14	0.47
1:H:81:ALA:O	1:H:85:VAL:HG23	2.14	0.47
1:H:182:THR:O	1:H:464:SER:N	2.48	0.47
1:I:326:ASP:OD1	1:I:327:ASP:N	2.48	0.47
1:J:145:LEU:HB2	1:J:159:LEU:HD12	1.96	0.47
1:K:499:SER:OG	1:p:84:GLU:OE2	2.24	0.47
1:N:186:SER:HA	1:N:451:LEU:HG	1.96	0.47
1:N:345:THR:HB	1:N:347:TYR:HE1	1.79	0.47
1:O:219:VAL:HG21	1:O:403:TRP:CZ2	2.45	0.47
1:P:157:ILE:HG23	1:P:496:ARG:HH21	1.79	0.47
1:Q:298:ILE:HG13	1:Q:303:ALA:HB2	1.96	0.47
1:R:334:THR:HG23	1:R:355:LEU:HD23	1.95	0.47
1:V:29:ILE:HG23	1:h:543:VAL:HG22	1.95	0.47
1:V:310:GLU:O	1:V:312:THR:HG23	2.15	0.47
1:Y:42:LYS:NZ	1:g:498:GLU:OE1	2.42	0.47
1:b:171:LEU:C	1:b:173:GLY:H	2.22	0.47
1:b:332:VAL:HG13	1:b:340:VAL:HG12	1.95	0.47
1:c:91:ARG:HG2	1:c:119:ARG:NH2	2.30	0.47
1:e:118:GLN:OE1	1:q:496:ARG:NH2	2.47	0.47
1:e:171:LEU:C	1:e:173:GLY:H	2.21	0.47
1:h:171:LEU:HB3	1:h:174:PHE:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:186:SER:HB3	1:k:449:LYS:HZ1	1.78	0.47
1:k:188:THR:O	1:k:192:VAL:HG23	2.14	0.47
1:k:531:SER:O	1:k:535:ILE:HG12	2.13	0.47
1:m:281:SER:HA	1:m:286:ALA:HB3	1.96	0.47
1:n:127:SER:CB	1:n:165:SER:HB3	2.44	0.47
1:o:200:GLN:NE2	1:o:201:GLY:O	2.47	0.47
1:r:131:ASP:OD1	1:r:132:PHE:N	2.46	0.47
1:t:164:ILE:HD11	1:t:486:LEU:HD13	1.95	0.47
1:A:81:ALA:O	1:A:85:VAL:HG23	2.14	0.47
1:A:162:SER:OG	1:A:163:GLU:OE2	2.32	0.47
1:B:202:ASP:OD1	1:B:202:ASP:N	2.46	0.47
1:C:88:HIS:CE1	1:C:119:ARG:HH11	2.32	0.47
1:D:93:ARG:NH2	1:c:151:ALA:HB1	2.27	0.47
1:E:37:ARG:N	1:E:519:GLN:O	2.47	0.47
1:G:225:ASP:HB3	1:G:391:THR:O	2.14	0.47
1:G:314:ASN:HA	1:t:314:ASN:ND2	2.29	0.47
1:G:499:SER:OG	1:l:84:GLU:OE2	2.21	0.47
1:H:64:ALA:CB	1:H:150:GLY:H	2.27	0.47
1:H:91:ARG:HG2	1:H:119:ARG:HH21	1.78	0.47
1:H:546:GLN:HA	1:H:549:GLN:OE1	2.14	0.47
1:K:64:ALA:CB	1:K:150:GLY:H	2.27	0.47
1:N:441:GLN:OE1	1:N:446:ASP:N	2.47	0.47
1:O:451:LEU:HD22	1:O:462:THR:HA	1.96	0.47
1:P:202:ASP:OD1	1:P:202:ASP:N	2.46	0.47
1:S:496:ARG:O	1:S:500:THR:HG23	2.14	0.47
1:W:496:ARG:O	1:W:500:THR:HG23	2.14	0.47
1:Z:122:ASP:OD1	1:Z:125:ARG:NH2	2.41	0.47
1:a:88:HIS:CE1	1:a:119:ARG:HH11	2.32	0.47
1:a:546:GLN:O	1:a:550:VAL:HG23	2.15	0.47
1:d:394:ILE:HD13	1:p:420:TYR:H	1.78	0.47
1:d:399:SER:HB3	1:p:397:THR:HA	1.96	0.47
1:e:230:ALA:HB2	1:e:236:THR:HG23	1.95	0.47
1:e:256:VAL:HG12	1:e:259:ASP:H	1.80	0.47
1:i:421:LYS:HD3	1:i:422:ILE:N	2.29	0.47
1:j:99:ALA:HB2	1:j:112:VAL:HG11	1.96	0.47
1:k:403:TRP:CD1	1:k:408:GLY:HA2	2.49	0.47
1:o:504:LEU:O	1:o:508:VAL:HG23	2.14	0.47
1:s:239:TYR:HB3	1:s:246:PHE:HD2	1.79	0.47
1:t:228:THR:HG22	1:t:238:THR:HG23	1.96	0.47
1:t:311:LEU:HB3	1:t:331:SER:HB2	1.96	0.47
1:u:88:HIS:CE1	1:u:119:ARG:HH11	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:283:GLY:C	1:u:284:LYS:HD3	2.39	0.47
1:v:283:GLY:C	1:v:284:LYS:HD3	2.39	0.47
1:C:144:PRO:HB3	1:C:160:ASN:H	1.79	0.47
1:D:495:ASN:ND2	1:c:42:LYS:O	2.34	0.47
1:G:355:LEU:N	1:G:361:ALA:HB2	2.30	0.47
1:H:110:ASP:OD1	1:H:177:ASN:ND2	2.42	0.47
1:H:402:THR:O	1:H:410:LEU:HD13	2.14	0.47
1:I:131:ASP:OD1	1:I:132:PHE:N	2.48	0.47
1:I:398:ASP:OD1	1:I:399:SER:N	2.41	0.47
1:J:420:TYR:N	1:V:394:ILE:HG21	2.29	0.47
1:K:370:MET:HG3	1:K:376:VAL:HG22	1.96	0.47
1:L:55:THR:HA	1:L:58:VAL:HG12	1.95	0.47
1:M:175:ASN:ND2	1:M:467:ASP:O	2.48	0.47
1:O:98:GLN:HG2	1:O:104:TYR:HE2	1.80	0.47
1:O:421:LYS:NZ	1:O:423:ASN:O	2.37	0.47
1:R:385:ILE:HA	1:R:405:ASP:HB2	1.96	0.47
1:S:355:LEU:HG	1:S:357:TYR:H	1.79	0.47
1:W:552:GLN:NE2	1:q:535:ILE:HD11	2.29	0.47
1:a:314:ASN:C	1:a:314:ASN:ND2	2.69	0.47
1:a:412:ASP:OD1	1:a:412:ASP:N	2.43	0.47
1:b:69:ASN:HA	1:b:72:ILE:HD12	1.96	0.47
1:c:164:ILE:HD11	1:c:486:LEU:HD22	1.96	0.47
1:d:147:LEU:HD23	1:l:101:ASN:HD21	1.78	0.47
1:d:500:THR:O	1:d:504:LEU:HD23	2.15	0.47
1:e:74:LEU:HD13	1:e:132:PHE:CD1	2.50	0.47
1:e:496:ARG:O	1:e:500:THR:HG23	2.14	0.47
1:f:355:LEU:HB2	1:f:361:ALA:HB2	1.97	0.47
1:f:421:LYS:HD3	1:f:422:ILE:N	2.30	0.47
1:g:144:PRO:HB2	1:g:158:THR:HG23	1.96	0.47
1:i:91:ARG:HG2	1:i:119:ARG:NH2	2.30	0.47
1:i:112:VAL:O	1:i:116:ILE:HG13	2.15	0.47
1:k:390:VAL:HG23	1:k:403:TRP:HH2	1.79	0.47
1:r:228:THR:HG22	1:r:238:THR:HG23	1.96	0.47
1:v:345:THR:HB	1:v:347:TYR:CE1	2.50	0.47
1:D:288:PHE:HB3	1:D:290:VAL:HG13	1.96	0.47
1:G:22:GLN:NE2	1:S:2:ALA:O	2.48	0.47
1:G:36:LEU:HD22	1:G:519:GLN:HG2	1.97	0.47
1:G:304:PHE:HB2	1:G:314:ASN:O	2.14	0.47
1:I:86:ASN:OD1	1:I:90:GLN:NE2	2.47	0.47
1:J:546:GLN:HA	1:J:549:GLN:OE1	2.14	0.47
1:M:225:ASP:HB3	1:M:391:THR:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:151:ALA:HB1	1:W:93:ARG:NH2	2.30	0.47
1:O:153:ASP:H	1:W:473:LEU:HD12	1.79	0.47
1:S:159:LEU:HD23	1:S:161:LEU:HD22	1.96	0.47
1:W:277:SER:OG	1:W:289:ASP:OD1	2.27	0.47
1:W:290:VAL:HG12	1:W:298:ILE:HG12	1.96	0.47
1:X:93:ARG:O	1:X:97:VAL:HG23	2.15	0.47
1:Z:393:ALA:HB3	1:Z:398:ASP:HA	1.96	0.47
1:a:32:LEU:HB3	1:m:543:VAL:HG21	1.96	0.47
1:a:394:ILE:HD13	1:m:420:TYR:H	1.80	0.47
1:d:144:PRO:HB2	1:d:158:THR:HG23	1.95	0.47
1:d:355:LEU:HB2	1:d:361:ALA:HB2	1.97	0.47
1:j:98:GLN:HG2	1:j:104:TYR:HE2	1.80	0.47
1:j:171:LEU:C	1:j:173:GLY:H	2.23	0.47
1:k:93:ARG:NH1	1:k:477:ASP:OD1	2.47	0.47
1:l:131:ASP:OD1	1:l:132:PHE:N	2.48	0.47
1:l:192:VAL:O	1:l:205:TYR:OH	2.23	0.47
1:m:239:TYR:HB3	1:m:246:PHE:HD2	1.80	0.47
1:m:557:LEU:HD23	1:m:557:LEU:H	1.80	0.47
1:p:352:ALA:HB3	1:p:362:THR:HG23	1.96	0.47
1:q:345:THR:HB	1:q:347:TYR:CE1	2.50	0.47
1:r:40:SER:O	1:r:42:LYS:HG3	2.14	0.47
1:t:279:GLU:O	1:t:343:GLY:N	2.43	0.47
1:t:306:ASN:ND2	1:t:314:ASN:HB2	2.30	0.47
1:u:274:ILE:HG12	1:u:293:ALA:HA	1.97	0.47
1:v:169:LEU:HD23	1:v:479:ALA:HB1	1.95	0.47
1:A:25:LEU:HB2	1:A:533:ALA:HB1	1.96	0.47
1:B:336:ALA:HB1	1:B:340:VAL:HB	1.96	0.47
1:C:54:PHE:HE1	1:C:511:LEU:HD22	1.79	0.47
1:C:148:GLN:NE2	1:C:150:GLY:O	2.47	0.47
1:C:421:LYS:HD3	1:C:422:ILE:N	2.30	0.47
1:D:124:ASP:O	1:D:127:SER:OG	2.26	0.47
1:E:493:VAL:O	1:E:497:LEU:HD23	2.15	0.47
1:F:493:VAL:O	1:F:497:LEU:HD23	2.15	0.47
1:G:144:PRO:HB3	1:G:160:ASN:H	1.79	0.47
1:H:326:ASP:OD1	1:H:327:ASP:N	2.47	0.47
1:I:55:THR:HA	1:I:58:VAL:HG12	1.95	0.47
1:I:317:SER:HA	1:I:321:THR:HG21	1.96	0.47
1:J:15:GLN:HG2	1:d:524:ALA:HB1	1.95	0.47
1:J:50:ILE:HD12	1:o:133:ASN:HD21	1.79	0.47
1:J:110:ASP:OD1	1:J:177:ASN:ND2	2.46	0.47
1:K:81:ALA:O	1:K:85:VAL:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:355:LEU:N	1:K:361:ALA:HB2	2.29	0.47
1:L:5:ILE:HG12	1:f:535:ILE:HG21	1.97	0.47
1:L:22:GLN:OE1	1:X:2:ALA:N	2.48	0.47
1:L:543:VAL:HG22	1:q:29:ILE:HG23	1.97	0.47
1:L:552:GLN:NE2	1:f:535:ILE:HD11	2.30	0.47
1:M:186:SER:HA	1:M:451:LEU:HG	1.96	0.47
1:M:441:GLN:HB3	1:M:448:ALA:H	1.80	0.47
1:N:398:ASP:OD1	1:N:399:SER:N	2.41	0.47
1:P:496:ARG:O	1:P:500:THR:HG23	2.13	0.47
1:Q:46:ALA:O	1:Q:50:ILE:HG12	2.14	0.47
1:Q:385:ILE:HA	1:Q:405:ASP:HB2	1.96	0.47
1:R:398:ASP:OD1	1:R:399:SER:N	2.47	0.47
1:S:77:THR:HG22	1:e:510:ASN:HB3	1.96	0.47
1:U:36:LEU:HD22	1:U:519:GLN:HG2	1.97	0.47
1:U:450:VAL:HG21	1:U:458:LEU:HD12	1.97	0.47
1:V:93:ARG:O	1:V:97:VAL:HG23	2.15	0.47
1:V:113:GLN:NE2	1:V:175:ASN:HA	2.30	0.47
1:V:301:ASN:OD1	1:V:302:ALA:N	2.46	0.47
1:V:398:ASP:OD1	1:V:399:SER:N	2.48	0.47
1:W:211:PHE:CD2	1:W:416:PHE:HA	2.49	0.47
1:Z:124:ASP:O	1:Z:128:GLU:OE1	2.33	0.47
1:Z:490:LEU:HA	1:Z:493:VAL:HG12	1.97	0.47
1:Z:497:LEU:O	1:Z:501:ILE:HG12	2.15	0.47
1:a:401:ASN:HB3	1:a:410:LEU:HD21	1.96	0.47
1:c:88:HIS:ND1	1:c:119:ARG:HD2	2.30	0.47
1:d:148:GLN:NE2	1:d:150:GLY:O	2.46	0.47
1:d:175:ASN:HB3	1:d:469:THR:HG23	1.95	0.47
1:e:178:GLY:HA2	1:e:468:LYS:NZ	2.30	0.47
1:e:398:ASP:OD1	1:e:399:SER:N	2.48	0.47
1:f:74:LEU:HD13	1:f:132:PHE:CD1	2.50	0.47
1:f:84:GLU:OE2	1:r:499:SER:OG	2.29	0.47
1:f:500:THR:O	1:f:504:LEU:HD23	2.15	0.47
1:g:248:TYR:HE2	1:g:250:LYS:HG3	1.79	0.47
1:h:231:VAL:HG13	1:h:386:THR:HG22	1.97	0.47
1:i:186:SER:HB3	1:i:449:LYS:HZ1	1.79	0.47
1:i:334:THR:HG23	1:i:355:LEU:HB3	1.97	0.47
1:k:58:VAL:O	1:k:62:THR:HG23	2.15	0.47
1:l:40:SER:O	1:l:42:LYS:HG3	2.15	0.47
1:m:200:GLN:NE2	1:m:201:GLY:O	2.48	0.47
1:n:40:SER:O	1:n:42:LYS:HG3	2.14	0.47
1:n:41:ALA:HB2	1:n:48:MET:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:311:LEU:HD13	1:n:331:SER:HB2	1.97	0.47
1:n:557:LEU:HD23	1:n:557:LEU:H	1.80	0.47
1:q:329:LEU:HA	1:q:332:VAL:HG12	1.97	0.47
1:t:40:SER:O	1:t:42:LYS:HG3	2.14	0.47
1:t:131:ASP:OD1	1:t:132:PHE:N	2.48	0.47
1:t:307:ALA:O	1:t:311:LEU:N	2.25	0.47
1:u:155:GLU:OE1	1:u:155:GLU:N	2.48	0.47
1:A:312:THR:HB	1:q:316:ALA:HB3	1.97	0.47
1:A:464:SER:OG	1:A:465:ALA:N	2.47	0.47
1:B:457:LYS:HG3	1:B:458:LEU:H	1.80	0.47
1:D:40:SER:O	1:D:42:LYS:HG3	2.15	0.47
1:D:164:ILE:HD11	1:D:486:LEU:HD13	1.97	0.47
1:F:171:LEU:C	1:F:173:GLY:H	2.23	0.47
1:H:151:ALA:HB1	1:P:93:ARG:NH2	2.30	0.47
1:H:332:VAL:HG13	1:H:332:VAL:O	2.15	0.47
1:H:496:ARG:NH2	1:m:118:GLN:OE1	2.48	0.47
1:I:314:ASN:HA	1:v:314:ASN:CG	2.39	0.47
1:I:451:LEU:HD22	1:I:462:THR:HA	1.97	0.47
1:K:35:GLY:O	1:t:6:ASN:ND2	2.48	0.47
1:L:64:ALA:CB	1:L:150:GLY:H	2.26	0.47
1:O:311:LEU:HB3	1:O:331:SER:OG	2.15	0.47
1:O:546:GLN:HA	1:O:549:GLN:OE1	2.15	0.47
1:Q:113:GLN:NE2	1:Q:175:ASN:HA	2.29	0.47
1:Q:451:LEU:HD13	1:Q:462:THR:HA	1.95	0.47
1:U:253:ASP:OD1	1:U:253:ASP:N	2.48	0.47
1:V:166:VAL:HG22	1:V:172:ASP:HA	1.97	0.47
1:V:394:ILE:O	1:V:398:ASP:N	2.48	0.47
1:W:61:LEU:HD22	1:W:504:LEU:CD1	2.45	0.47
1:W:316:ALA:HB2	1:a:288:PHE:HE2	1.78	0.47
1:X:310:GLU:O	1:X:312:THR:HG23	2.15	0.47
1:Z:253:ASP:OD1	1:Z:253:ASP:N	2.48	0.47
1:a:324:THR:HG23	1:a:327:ASP:H	1.80	0.47
1:b:38:ILE:HD12	1:b:519:GLN:HA	1.97	0.47
1:e:249:THR:HG22	1:e:366:VAL:HG22	1.95	0.47
1:f:69:ASN:HA	1:f:72:ILE:HD13	1.97	0.47
1:g:186:SER:HB3	1:g:449:LYS:HZ1	1.80	0.47
1:g:400:ASN:OD1	1:g:401:ASN:N	2.48	0.47
1:h:171:LEU:C	1:h:173:GLY:H	2.22	0.47
1:h:421:LYS:HD3	1:h:422:ILE:N	2.30	0.47
1:j:169:LEU:HD12	1:j:479:ALA:HB1	1.97	0.47
1:j:288:PHE:HB3	1:j:290:VAL:HG13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:99:ALA:HB1	1:k:176:VAL:HG11	1.96	0.47
1:m:167:LYS:O	1:m:167:LYS:HG2	2.15	0.47
1:n:192:VAL:HB	1:n:205:TYR:CE2	2.50	0.47
1:p:144:PRO:HB2	1:p:158:THR:HG23	1.96	0.47
1:q:73:SER:O	1:q:77:THR:HG23	2.14	0.47
1:r:211:PHE:HB3	1:r:415:THR:O	2.15	0.47
1:B:534:GLN:O	1:B:538:GLN:HG3	2.15	0.47
1:E:86:ASN:HD21	1:n:52:ASN:ND2	2.13	0.47
1:F:305:LEU:HA	1:F:314:ASN:H	1.80	0.47
1:H:7:THR:OG1	1:P:516:SER:OG	2.12	0.47
1:J:274:ILE:HG23	1:J:293:ALA:HA	1.96	0.47
1:K:410:LEU:CD2	1:K:413:ILE:HB	2.45	0.47
1:L:311:LEU:HB3	1:L:331:SER:OG	2.15	0.47
1:N:55:THR:HA	1:N:58:VAL:HG12	1.96	0.47
1:N:490:LEU:HA	1:N:493:VAL:HG12	1.96	0.47
1:O:7:THR:OG1	1:W:516:SER:OG	2.13	0.47
1:P:66:ARG:HH12	1:b:37:ARG:NH2	2.12	0.47
1:P:137:VAL:HB	1:P:161:LEU:HD11	1.96	0.47
1:S:451:LEU:HD13	1:S:462:THR:HA	1.97	0.47
1:T:395:ALA:HA	1:T:398:ASP:HB2	1.96	0.47
1:U:66:ARG:HH12	1:g:37:ARG:NH2	2.13	0.47
1:V:66:ARG:HH12	1:h:37:ARG:NH2	2.12	0.47
1:W:355:LEU:HB2	1:W:361:ALA:HB2	1.95	0.47
1:Y:6:ASN:O	1:s:532:LYS:NZ	2.43	0.47
1:Y:281:SER:HA	1:Y:286:ALA:HB3	1.96	0.47
1:Y:457:LYS:HG3	1:Y:458:LEU:H	1.80	0.47
1:e:414:GLN:HG2	1:e:424:ALA:HA	1.97	0.47
1:h:200:GLN:N	1:h:204:THR:O	2.45	0.47
1:h:291:ASP:O	1:h:297:THR:OG1	2.29	0.47
1:j:91:ARG:HG2	1:j:119:ARG:NH2	2.30	0.47
1:j:178:GLY:HA2	1:j:468:LYS:HZ2	1.80	0.47
1:j:355:LEU:HB2	1:j:361:ALA:HB2	1.97	0.47
1:l:449:LYS:O	1:l:451:LEU:HD12	2.14	0.47
1:o:127:SER:CB	1:o:165:SER:HB3	2.45	0.47
1:q:127:SER:CB	1:q:165:SER:HB3	2.45	0.47
1:q:167:LYS:HA	1:q:172:ASP:HB2	1.96	0.47
1:t:345:THR:HB	1:t:347:TYR:HE2	1.78	0.47
1:u:13:VAL:HA	1:u:16:ASN:HD22	1.79	0.47
1:u:279:GLU:O	1:u:343:GLY:N	2.45	0.47
1:v:144:PRO:HB2	1:v:158:THR:HG23	1.97	0.47
1:v:240:ASP:HB2	1:v:247:THR:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:306:ASN:ND2	1:v:314:ASN:HB2	2.29	0.47
1:v:515:ARG:HA	1:v:518:ILE:HG22	1.97	0.47
1:B:58:VAL:HG23	1:B:508:VAL:HG13	1.97	0.47
1:F:88:HIS:CE1	1:F:119:ARG:HH11	2.33	0.47
1:F:110:ASP:OD1	1:F:177:ASN:ND2	2.47	0.47
1:G:15:GLN:HG2	1:a:524:ALA:HB1	1.96	0.47
1:H:500:THR:O	1:H:504:LEU:HD23	2.15	0.47
1:I:91:ARG:HG2	1:I:119:ARG:NH2	2.30	0.47
1:I:98:GLN:HG2	1:I:104:TYR:HE2	1.79	0.47
1:L:524:ALA:HB1	1:i:15:GLN:HG2	1.96	0.47
1:M:86:ASN:HD21	1:v:52:ASN:ND2	2.13	0.47
1:O:6:ASN:ND2	1:W:35:GLY:O	2.47	0.47
1:P:189:VAL:HB	1:P:432:VAL:HG11	1.97	0.47
1:T:38:ILE:HD12	1:T:48:MET:HA	1.97	0.47
1:T:133:ASN:ND2	1:b:103:SER:O	2.48	0.47
1:U:275:SER:HB2	1:U:278:TYR:HE1	1.80	0.47
1:X:253:ASP:OD1	1:X:253:ASP:N	2.47	0.47
1:X:316:ALA:HA	1:b:286:ALA:HA	1.97	0.47
1:Z:38:ILE:HD12	1:Z:48:MET:HA	1.97	0.47
1:a:74:LEU:HD13	1:a:132:PHE:CD1	2.50	0.47
1:b:58:VAL:HG23	1:b:508:VAL:HG13	1.97	0.47
1:b:159:LEU:HD13	1:b:493:VAL:HG11	1.97	0.47
1:b:389:ALA:HB1	1:b:400:ASN:OD1	2.15	0.47
1:d:171:LEU:C	1:d:173:GLY:H	2.22	0.47
1:e:91:ARG:HG2	1:e:119:ARG:NH2	2.30	0.47
1:f:38:ILE:HD12	1:f:519:GLN:HA	1.97	0.47
1:g:317:SER:OG	1:g:321:THR:OG1	2.23	0.47
1:i:59:ARG:HG2	1:q:94:GLU:OE1	2.15	0.47
1:j:171:LEU:HD22	1:j:174:PHE:CD1	2.46	0.47
1:A:144:PRO:HB3	1:A:160:ASN:H	1.80	0.46
1:B:93:ARG:O	1:B:97:VAL:HG23	2.15	0.46
1:C:282:THR:OG1	1:C:311:LEU:O	2.29	0.46
1:C:431:VAL:O	1:C:440:GLY:N	2.48	0.46
1:D:167:LYS:HA	1:D:172:ASP:HB2	1.97	0.46
1:D:416:PHE:CG	1:D:417:ASP:N	2.83	0.46
1:E:355:LEU:N	1:E:361:ALA:HB2	2.29	0.46
1:F:182:THR:O	1:F:464:SER:N	2.48	0.46
1:F:231:VAL:HA	1:F:386:THR:HA	1.98	0.46
1:F:420:TYR:H	1:R:394:ILE:HG21	1.79	0.46
1:H:25:LEU:HB2	1:H:533:ALA:HB1	1.97	0.46
1:H:420:TYR:N	1:T:394:ILE:HG21	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:555:LEU:HG	1:J:555:LEU:O	2.15	0.46
1:M:288:PHE:HE2	1:M:313:THR:HB	1.80	0.46
1:O:138:LEU:HD11	1:O:164:ILE:HB	1.95	0.46
1:P:534:GLN:O	1:P:538:GLN:HG3	2.15	0.46
1:S:368:SER:O	1:S:368:SER:OG	2.31	0.46
1:T:66:ARG:HH12	1:f:37:ARG:NH2	2.13	0.46
1:T:278:TYR:CE2	1:T:292:ALA:HB3	2.50	0.46
1:V:183:GLN:HA	1:V:463:THR:HA	1.96	0.46
1:X:137:VAL:HB	1:X:161:LEU:HD11	1.96	0.46
1:Y:398:ASP:OD1	1:Y:399:SER:N	2.47	0.46
1:d:280:ILE:H	1:d:288:PHE:HB2	1.81	0.46
1:e:151:ALA:HB1	1:m:93:ARG:NH2	2.30	0.46
1:e:421:LYS:HD3	1:e:422:ILE:N	2.29	0.46
1:f:230:ALA:HB2	1:f:236:THR:HG23	1.97	0.46
1:g:58:VAL:O	1:g:62:THR:HG23	2.14	0.46
1:g:185:ARG:NH2	1:g:191:ASP:OD2	2.49	0.46
1:i:125:ARG:HH21	1:u:500:THR:HG22	1.81	0.46
1:i:230:ALA:HB2	1:i:236:THR:HG23	1.97	0.46
1:j:88:HIS:ND1	1:j:119:ARG:HD2	2.30	0.46
1:j:396:THR:O	1:v:399:SER:OG	2.23	0.46
1:k:421:LYS:HD3	1:k:422:ILE:N	2.30	0.46
1:k:500:THR:O	1:k:504:LEU:HD23	2.15	0.46
1:m:41:ALA:HB2	1:m:48:MET:HG2	1.97	0.46
1:m:317:SER:HA	1:m:321:THR:HG21	1.98	0.46
1:p:279:GLU:O	1:p:343:GLY:N	2.43	0.46
1:v:110:ASP:OD1	1:v:177:ASN:ND2	2.48	0.46
1:A:314:ASN:HA	1:q:314:ASN:CG	2.40	0.46
1:B:524:ALA:HB1	1:l:15:GLN:HG2	1.96	0.46
1:C:206:LYS:HD2	1:C:206:LYS:O	2.16	0.46
1:E:131:ASP:OD1	1:E:132:PHE:N	2.48	0.46
1:F:144:PRO:HB2	1:F:158:THR:HG23	1.96	0.46
1:F:304:PHE:H	1:F:315:ASP:HA	1.79	0.46
1:H:118:GLN:HG2	1:T:496:ARG:HD3	1.97	0.46
1:J:212:ASN:HA	1:J:414:GLN:HG3	1.96	0.46
1:K:493:VAL:O	1:K:497:LEU:HD23	2.16	0.46
1:M:543:VAL:HG22	1:r:29:ILE:HG23	1.97	0.46
1:N:212:ASN:HA	1:N:414:GLN:HG3	1.97	0.46
1:P:77:THR:HG22	1:b:510:ASN:HB3	1.96	0.46
1:S:393:ALA:HB3	1:S:398:ASP:HA	1.97	0.46
1:V:171:LEU:C	1:V:173:GLY:H	2.22	0.46
1:X:385:ILE:HA	1:X:405:ASP:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:303:ALA:HA	1:Y:315:ASP:HA	1.97	0.46
1:Z:171:LEU:C	1:Z:173:GLY:H	2.23	0.46
1:Z:315:ASP:OD1	1:Z:315:ASP:N	2.48	0.46
1:a:171:LEU:C	1:a:173:GLY:H	2.22	0.46
1:b:260:VAL:HB	1:b:263:LEU:HB3	1.97	0.46
1:c:304:PHE:HA	1:c:323:ALA:HB2	1.97	0.46
1:e:58:VAL:O	1:e:62:THR:HG23	2.15	0.46
1:f:88:HIS:ND1	1:f:119:ARG:HD2	2.30	0.46
1:f:394:ILE:HD11	1:r:419:SER:HB2	1.98	0.46
1:h:304:PHE:HA	1:h:323:ALA:HB2	1.96	0.46
1:i:88:HIS:ND1	1:i:119:ARG:HD2	2.31	0.46
1:i:414:GLN:HG2	1:i:424:ALA:HA	1.97	0.46
1:j:531:SER:O	1:j:535:ILE:HG12	2.14	0.46
1:k:42:LYS:HB2	1:s:495:ASN:OD1	2.15	0.46
1:k:91:ARG:HG2	1:k:119:ARG:NH2	2.30	0.46
1:m:37:ARG:NH2	1:m:518:ILE:O	2.48	0.46
1:n:73:SER:O	1:n:77:THR:HG23	2.16	0.46
1:o:164:ILE:HG23	1:o:169:LEU:HD11	1.95	0.46
1:p:155:GLU:OE1	1:p:155:GLU:N	2.48	0.46
1:p:167:LYS:O	1:p:167:LYS:HG2	2.16	0.46
1:p:516:SER:HA	1:p:520:ASP:OD1	2.15	0.46
1:q:169:LEU:HD23	1:q:479:ALA:HB1	1.96	0.46
1:A:131:ASP:OD1	1:A:132:PHE:N	2.48	0.46
1:C:288:PHE:HZ	1:V:316:ALA:HB2	1.79	0.46
1:C:306:ASN:ND2	1:V:306:ASN:HD22	2.13	0.46
1:D:500:THR:O	1:D:504:LEU:HD23	2.16	0.46
1:D:516:SER:HA	1:D:520:ASP:OD2	2.16	0.46
1:F:306:ASN:H	1:F:314:ASN:HD22	1.62	0.46
1:G:84:GLU:HA	1:G:84:GLU:OE2	2.16	0.46
1:G:464:SER:OG	1:G:465:ALA:N	2.48	0.46
1:H:225:ASP:HB3	1:H:391:THR:O	2.14	0.46
1:J:86:ASN:HD21	1:s:52:ASN:ND2	2.13	0.46
1:J:389:ALA:HB1	1:J:400:ASN:HD21	1.80	0.46
1:K:98:GLN:HG2	1:K:104:TYR:HE2	1.79	0.46
1:K:171:LEU:C	1:K:173:GLY:H	2.23	0.46
1:K:294:GLY:C	1:K:295:LYS:HD3	2.41	0.46
1:K:441:GLN:NE2	1:K:445:ALA:HB3	2.30	0.46
1:L:260:VAL:HG21	1:L:335:GLU:HG3	1.97	0.46
1:L:390:VAL:HG12	1:L:392:PHE:HB3	1.97	0.46
1:N:410:LEU:CD2	1:N:413:ILE:HB	2.45	0.46
1:O:52:ASN:ND2	1:W:86:ASN:HD21	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:105:SER:N	1:O:108:GLN:OE1	2.47	0.46
1:P:404:VAL:HG12	1:P:405:ASP:H	1.80	0.46
1:S:51:ALA:O	1:S:55:THR:HG23	2.14	0.46
1:S:165:SER:OG	1:S:166:VAL:O	2.30	0.46
1:S:398:ASP:OD1	1:S:399:SER:N	2.48	0.46
1:T:253:ASP:N	1:T:253:ASP:OD1	2.47	0.46
1:U:66:ARG:HH22	1:g:37:ARG:HH21	1.63	0.46
1:U:290:VAL:HG12	1:U:298:ILE:HG12	1.96	0.46
1:U:374:THR:O	1:U:378:THR:HG23	2.16	0.46
1:W:310:GLU:O	1:W:312:THR:HG23	2.15	0.46
1:X:303:ALA:HA	1:X:315:ASP:HA	1.98	0.46
1:Z:310:GLU:O	1:Z:312:THR:HG23	2.15	0.46
1:d:88:HIS:CE1	1:d:119:ARG:HH11	2.32	0.46
1:d:394:ILE:HD11	1:p:419:SER:HB2	1.98	0.46
1:e:38:ILE:HD12	1:e:519:GLN:HA	1.97	0.46
1:e:88:HIS:ND1	1:e:119:ARG:HD2	2.30	0.46
1:e:125:ARG:HH21	1:q:500:THR:HG22	1.80	0.46
1:g:268:LYS:O	1:g:271:SER:OG	2.32	0.46
1:h:389:ALA:HB1	1:h:400:ASN:OD1	2.15	0.46
1:h:394:ILE:HD13	1:t:420:TYR:H	1.78	0.46
1:i:88:HIS:CE1	1:i:119:ARG:HH11	2.32	0.46
1:k:555:LEU:O	1:k:555:LEU:HD23	2.15	0.46
1:l:281:SER:HA	1:l:286:ALA:HB3	1.96	0.46
1:n:410:LEU:HD12	1:n:411:THR:N	2.29	0.46
1:o:449:LYS:O	1:o:451:LEU:HD12	2.15	0.46
1:o:555:LEU:HD13	1:o:558:LEU:HD21	1.96	0.46
1:q:144:PRO:HB2	1:q:158:THR:HG23	1.96	0.46
1:s:124:ASP:O	1:s:127:SER:OG	2.27	0.46
1:u:515:ARG:HA	1:u:518:ILE:HG22	1.98	0.46
1:B:35:GLY:O	1:G:6:ASN:ND2	2.46	0.46
1:B:38:ILE:HD12	1:B:48:MET:HA	1.98	0.46
1:D:187:ALA:HB2	1:D:452:VAL:HG23	1.97	0.46
1:D:411:THR:O	1:D:414:GLN:NE2	2.48	0.46
1:H:314:ASN:HA	1:u:314:ASN:CG	2.40	0.46
1:H:402:THR:C	1:H:410:LEU:HD13	2.41	0.46
1:K:473:LEU:HD23	1:t:152:ASN:H	1.80	0.46
1:K:546:GLN:HA	1:K:549:GLN:OE1	2.16	0.46
1:L:171:LEU:O	1:L:173:GLY:N	2.49	0.46
1:M:397:THR:HA	1:Y:399:SER:HB3	1.98	0.46
1:M:490:LEU:HA	1:M:493:VAL:HG12	1.97	0.46
1:N:225:ASP:HB3	1:N:391:THR:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:546:GLN:HA	1:N:549:GLN:OE1	2.15	0.46
1:O:410:LEU:CD2	1:O:413:ILE:HB	2.44	0.46
1:P:51:ALA:O	1:P:55:THR:HG23	2.15	0.46
1:Q:393:ALA:HB3	1:Q:398:ASP:HA	1.97	0.46
1:U:4:VAL:HG21	1:c:520:ASP:CG	2.40	0.46
1:U:275:SER:HB2	1:U:278:TYR:CE1	2.51	0.46
1:U:555:LEU:HD21	1:o:538:GLN:HB2	1.97	0.46
1:W:398:ASP:OD1	1:W:399:SER:N	2.48	0.46
1:Y:41:ALA:N	1:g:79:GLU:OE2	2.48	0.46
1:Z:73:SER:O	1:Z:77:THR:HG23	2.16	0.46
1:Z:368:SER:O	1:Z:368:SER:OG	2.31	0.46
1:b:404:VAL:HG11	1:b:407:LYS:HG2	1.96	0.46
1:c:206:LYS:NZ	1:c:208:THR:HG22	2.31	0.46
1:d:324:THR:HG23	1:d:327:ASP:H	1.80	0.46
1:e:86:ASN:O	1:e:90:GLN:HG2	2.14	0.46
1:f:206:LYS:HD2	1:f:206:LYS:O	2.16	0.46
1:g:187:ALA:HB3	1:g:450:VAL:HG13	1.98	0.46
1:h:400:ASN:OD1	1:h:401:ASN:N	2.48	0.46
1:i:110:ASP:HA	1:i:177:ASN:ND2	2.30	0.46
1:m:95:LEU:HD12	1:m:112:VAL:HG13	1.96	0.46
1:p:438:THR:HG21	1:p:449:LYS:HD2	1.98	0.46
1:q:283:GLY:C	1:q:284:LYS:HD3	2.40	0.46
1:r:55:THR:O	1:r:59:ARG:HG2	2.15	0.46
1:r:171:LEU:O	1:r:173:GLY:N	2.48	0.46
1:r:208:THR:HB	1:r:425:ASP:OD2	2.15	0.46
1:r:555:LEU:HD13	1:r:558:LEU:HD21	1.98	0.46
1:t:279:GLU:OE1	1:t:288:PHE:N	2.46	0.46
1:A:420:TYR:N	1:P:394:ILE:HG21	2.30	0.46
1:B:401:ASN:HB3	1:B:410:LEU:HD21	1.97	0.46
1:C:396:THR:O	1:l:399:SER:OG	2.25	0.46
1:D:345:THR:HB	1:D:347:TYR:CE1	2.51	0.46
1:I:164:ILE:HD11	1:I:486:LEU:HD22	1.98	0.46
1:J:64:ALA:CB	1:J:150:GLY:H	2.29	0.46
1:J:113:GLN:O	1:J:117:ASN:ND2	2.48	0.46
1:K:126:ILE:O	1:K:130:THR:OG1	2.29	0.46
1:K:200:GLN:N	1:K:204:THR:O	2.39	0.46
1:M:555:LEU:HG	1:M:555:LEU:O	2.14	0.46
1:N:22:GLN:OE1	1:Z:2:ALA:N	2.49	0.46
1:N:131:ASP:OD1	1:N:132:PHE:N	2.48	0.46
1:O:64:ALA:HB1	1:O:149:VAL:HA	1.98	0.46
1:O:171:LEU:C	1:O:173:GLY:H	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:345:THR:HB	1:O:347:TYR:HE1	1.80	0.46
1:Q:131:ASP:OD1	1:Q:132:PHE:N	2.49	0.46
1:S:275:SER:HB2	1:S:278:TYR:CE1	2.51	0.46
1:S:355:LEU:HB2	1:S:361:ALA:HB2	1.96	0.46
1:W:171:LEU:C	1:W:173:GLY:H	2.23	0.46
1:W:394:ILE:O	1:W:398:ASP:N	2.49	0.46
1:Z:451:LEU:HD13	1:Z:462:THR:HA	1.97	0.46
1:c:118:GLN:OE1	1:o:496:ARG:NH2	2.48	0.46
1:f:175:ASN:HB3	1:f:469:THR:HG23	1.97	0.46
1:g:74:LEU:HD13	1:g:132:PHE:CD1	2.50	0.46
1:h:113:GLN:NE2	1:h:175:ASN:HA	2.30	0.46
1:j:59:ARG:NH2	1:r:90:GLN:HB3	2.30	0.46
1:j:401:ASN:HB3	1:j:410:LEU:HD21	1.98	0.46
1:k:57:ASN:O	1:k:61:LEU:HG	2.16	0.46
1:m:449:LYS:O	1:m:451:LEU:HD12	2.16	0.46
1:n:187:ALA:HB2	1:n:452:VAL:HG23	1.98	0.46
1:n:345:THR:HB	1:n:347:TYR:CE1	2.51	0.46
1:o:84:GLU:OE1	1:o:84:GLU:HA	2.16	0.46
1:o:239:TYR:HB3	1:o:246:PHE:HD2	1.81	0.46
1:p:345:THR:HB	1:p:347:TYR:HE1	1.80	0.46
1:r:144:PRO:HB2	1:r:158:THR:HG23	1.98	0.46
1:t:208:THR:HB	1:t:425:ASP:OD2	2.16	0.46
1:v:40:SER:O	1:v:42:LYS:HG3	2.14	0.46
1:C:249:THR:HG22	1:C:366:VAL:HG22	1.98	0.46
1:F:81:ALA:O	1:F:85:VAL:HG23	2.15	0.46
1:F:311:LEU:HD12	1:F:336:ALA:HB3	1.97	0.46
1:F:316:ALA:HB3	1:s:312:THR:HB	1.97	0.46
1:G:212:ASN:HA	1:G:414:GLN:HG3	1.96	0.46
1:G:306:ASN:H	1:G:314:ASN:HD22	1.64	0.46
1:G:345:THR:HB	1:G:347:TYR:HE1	1.81	0.46
1:I:25:LEU:HB2	1:I:533:ALA:HB1	1.97	0.46
1:I:151:ALA:HB1	1:Q:93:ARG:NH2	2.31	0.46
1:N:177:ASN:HD21	1:N:179:LYS:HZ2	1.64	0.46
1:O:64:ALA:CB	1:O:150:GLY:H	2.29	0.46
1:Q:137:VAL:HB	1:Q:161:LEU:HD11	1.97	0.46
1:R:157:ILE:HG23	1:R:496:ARG:HH21	1.80	0.46
1:R:375:ALA:O	1:R:378:THR:OG1	2.23	0.46
1:T:275:SER:HB2	1:T:278:TYR:CE1	2.50	0.46
1:U:494:GLN:O	1:U:498:GLU:HG3	2.16	0.46
1:W:113:GLN:HE21	1:W:176:VAL:H	1.63	0.46
1:W:124:ASP:O	1:W:128:GLU:OE1	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:66:ARG:HH12	1:j:37:ARG:NH2	2.13	0.46
1:a:485:LYS:HB2	1:a:485:LYS:HE3	1.77	0.46
1:b:394:ILE:HD13	1:n:420:TYR:H	1.81	0.46
1:c:61:LEU:HD22	1:c:504:LEU:CD1	2.45	0.46
1:d:125:ARG:HH21	1:p:500:THR:HG22	1.79	0.46
1:f:187:ALA:HB3	1:f:450:VAL:HG13	1.96	0.46
1:h:74:LEU:HD13	1:h:132:PHE:CD1	2.51	0.46
1:i:171:LEU:HD21	1:i:476:LEU:HD23	1.97	0.46
1:i:546:GLN:O	1:i:550:VAL:HG23	2.14	0.46
1:j:500:THR:O	1:j:504:LEU:HD23	2.15	0.46
1:l:167:LYS:O	1:l:167:LYS:HG2	2.16	0.46
1:m:394:ILE:HB	1:m:397:THR:HG22	1.97	0.46
1:p:228:THR:HG22	1:p:238:THR:HG23	1.96	0.46
1:p:239:TYR:HB3	1:p:246:PHE:HD2	1.81	0.46
1:q:145:LEU:HB2	1:q:159:LEU:HD12	1.98	0.46
1:q:164:ILE:HD11	1:q:486:LEU:HD13	1.97	0.46
1:q:515:ARG:HA	1:q:518:ILE:HG22	1.98	0.46
1:r:279:GLU:O	1:r:343:GLY:N	2.39	0.46
1:A:175:ASN:ND2	1:A:467:ASP:O	2.49	0.46
1:A:490:LEU:HA	1:A:493:VAL:HG12	1.98	0.46
1:B:137:VAL:HB	1:B:161:LEU:HD11	1.97	0.46
1:D:73:SER:O	1:D:77:THR:HG23	2.16	0.46
1:F:410:LEU:CD2	1:F:413:ILE:HB	2.46	0.46
1:G:316:ALA:HB3	1:t:312:THR:HB	1.98	0.46
1:I:64:ALA:CB	1:I:150:GLY:H	2.29	0.46
1:I:227:ASN:HB3	1:I:239:TYR:HB2	1.97	0.46
1:J:23:SER:O	1:J:27:THR:HG23	2.16	0.46
1:J:131:ASP:OD1	1:J:132:PHE:N	2.48	0.46
1:L:326:ASP:OD1	1:L:327:ASP:N	2.49	0.46
1:O:543:VAL:HG22	1:t:29:ILE:HG23	1.97	0.46
1:S:113:GLN:HE21	1:S:176:VAL:H	1.64	0.46
1:S:253:ASP:OD1	1:S:253:ASP:N	2.49	0.46
1:V:131:ASP:OD1	1:V:132:PHE:N	2.49	0.46
1:Y:253:ASP:N	1:Y:253:ASP:OD1	2.49	0.46
1:Z:416:PHE:CE2	1:Z:421:LYS:HG3	2.51	0.46
1:a:500:THR:O	1:a:504:LEU:HD23	2.16	0.46
1:d:91:ARG:HG2	1:d:119:ARG:NH2	2.30	0.46
1:f:394:ILE:HD13	1:r:420:TYR:H	1.81	0.46
1:g:144:PRO:HB3	1:g:160:ASN:HA	1.97	0.46
1:h:58:VAL:O	1:h:62:THR:HG23	2.15	0.46
1:j:171:LEU:O	1:j:173:GLY:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:421:LYS:HD3	1:j:422:ILE:N	2.31	0.46
1:k:151:ALA:HB1	1:s:93:ARG:NH2	2.29	0.46
1:m:101:ASN:OD1	1:m:102:GLY:N	2.49	0.46
1:n:192:VAL:HB	1:n:205:TYR:CD2	2.51	0.46
1:p:187:ALA:HB2	1:p:452:VAL:HG23	1.96	0.46
1:p:329:LEU:HA	1:p:332:VAL:HG12	1.98	0.46
1:p:557:LEU:HD23	1:p:557:LEU:H	1.80	0.46
1:q:216:ALA:HA	1:q:403:TRP:CH2	2.51	0.46
1:r:40:SER:O	1:r:42:LYS:N	2.49	0.46
1:r:167:LYS:O	1:r:167:LYS:HG2	2.16	0.46
1:u:144:PRO:HB2	1:u:158:THR:HG23	1.98	0.46
1:u:329:LEU:HA	1:u:332:VAL:HG12	1.98	0.46
1:A:305:LEU:HA	1:A:314:ASN:H	1.79	0.46
1:D:231:VAL:HA	1:D:386:THR:HA	1.97	0.46
1:G:314:ASN:HA	1:t:314:ASN:CG	2.41	0.46
1:I:182:THR:O	1:I:464:SER:N	2.49	0.46
1:J:92:ILE:HD11	1:J:119:ARG:HB3	1.98	0.46
1:J:394:ILE:HG21	1:V:420:TYR:HB2	1.98	0.46
1:K:225:ASP:HB3	1:K:391:THR:O	2.16	0.46
1:K:496:ARG:O	1:K:500:THR:HG23	2.15	0.46
1:L:22:GLN:NE2	1:X:2:ALA:O	2.48	0.46
1:L:110:ASP:HA	1:L:177:ASN:ND2	2.30	0.46
1:L:315:ASP:OD1	1:L:315:ASP:N	2.49	0.46
1:M:212:ASN:HA	1:M:414:GLN:HG3	1.98	0.46
1:N:350:SER:N	1:N:364:ALA:O	2.48	0.46
1:P:376:VAL:HA	1:P:379:VAL:HG12	1.96	0.46
1:R:376:VAL:HA	1:R:379:VAL:HG12	1.98	0.46
1:S:66:ARG:HH12	1:e:37:ARG:NH2	2.14	0.46
1:X:304:PHE:N	1:X:314:ASN:O	2.46	0.46
1:X:374:THR:O	1:X:378:THR:HG23	2.16	0.46
1:X:398:ASP:OD1	1:X:399:SER:N	2.49	0.46
1:Y:66:ARG:HH12	1:k:37:ARG:NH2	2.13	0.46
1:a:88:HIS:ND1	1:a:119:ARG:HD2	2.30	0.46
1:d:88:HIS:ND1	1:d:119:ARG:HD2	2.31	0.46
1:f:414:GLN:HG2	1:f:424:ALA:HA	1.96	0.46
1:h:546:GLN:O	1:h:550:VAL:HG23	2.16	0.46
1:j:57:ASN:O	1:j:61:LEU:HG	2.16	0.46
1:l:155:GLU:OE1	1:l:155:GLU:N	2.49	0.46
1:o:345:THR:HB	1:o:347:TYR:CE1	2.51	0.46
1:s:144:PRO:HB2	1:s:158:THR:HG23	1.98	0.46
1:s:394:ILE:HB	1:s:397:THR:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:171:LEU:C	1:u:173:GLY:H	2.23	0.46
1:A:199:LEU:HB2	1:A:205:TYR:HD1	1.80	0.46
1:C:355:LEU:HG	1:C:357:TYR:H	1.81	0.46
1:E:314:ASN:HA	1:r:314:ASN:CG	2.41	0.46
1:F:23:SER:O	1:F:27:THR:HG23	2.16	0.46
1:F:315:ASP:OD1	1:F:315:ASP:N	2.48	0.46
1:H:429:VAL:HG12	1:H:442:TYR:HB3	1.98	0.46
1:H:555:LEU:O	1:H:555:LEU:HG	2.16	0.46
1:I:354:GLU:C	1:I:361:ALA:HB2	2.41	0.46
1:I:552:GLN:NE2	1:c:535:ILE:HD11	2.31	0.46
1:J:151:ALA:HB1	1:R:93:ARG:NH2	2.31	0.46
1:K:199:LEU:HB2	1:K:205:TYR:HD1	1.81	0.46
1:K:420:TYR:N	1:W:394:ILE:HG21	2.30	0.46
1:M:22:GLN:NE2	1:Y:2:ALA:O	2.48	0.46
1:M:171:LEU:O	1:M:173:GLY:N	2.48	0.46
1:M:410:LEU:CD2	1:M:413:ILE:HB	2.45	0.46
1:P:46:ALA:O	1:P:50:ILE:HG12	2.16	0.46
1:P:355:LEU:HB2	1:P:361:ALA:HB2	1.97	0.46
1:Q:36:LEU:HD22	1:Q:519:GLN:HG2	1.98	0.46
1:Q:401:ASN:HB3	1:Q:410:LEU:HD21	1.98	0.46
1:S:38:ILE:HD12	1:S:48:MET:HA	1.97	0.46
1:T:159:LEU:HD12	1:T:493:VAL:HG21	1.97	0.46
1:V:385:ILE:HA	1:V:405:ASP:HB2	1.97	0.46
1:b:74:LEU:HD13	1:b:132:PHE:CD1	2.51	0.46
1:c:165:SER:O	1:c:169:LEU:HD23	2.16	0.46
1:c:396:THR:O	1:o:399:SER:OG	2.22	0.46
1:d:304:PHE:HA	1:d:323:ALA:HB2	1.97	0.46
1:d:421:LYS:HD3	1:d:422:ILE:N	2.31	0.46
1:e:32:LEU:HB3	1:q:543:VAL:HG21	1.96	0.46
1:i:86:ASN:O	1:i:90:GLN:HG2	2.16	0.46
1:j:546:GLN:O	1:j:550:VAL:HG23	2.16	0.46
1:k:398:ASP:OD1	1:k:399:SER:N	2.49	0.46
1:n:329:LEU:HA	1:n:332:VAL:HG12	1.97	0.46
1:o:110:ASP:OD1	1:o:177:ASN:ND2	2.49	0.46
1:q:228:THR:HG22	1:q:238:THR:HG23	1.98	0.46
1:s:208:THR:HB	1:s:425:ASP:OD2	2.15	0.46
1:u:40:SER:O	1:u:42:LYS:N	2.49	0.46
1:v:145:LEU:HB2	1:v:159:LEU:HD12	1.97	0.46
1:C:374:THR:O	1:C:378:THR:HG23	2.16	0.46
1:E:524:ALA:HB1	1:b:15:GLN:HG2	1.98	0.46
1:F:98:GLN:HG2	1:F:104:TYR:HE2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:290:VAL:HG12	1:F:298:ILE:HB	1.98	0.46
1:F:420:TYR:N	1:R:394:ILE:HG21	2.31	0.46
1:H:239:TYR:HB3	1:H:246:PHE:HD2	1.81	0.46
1:I:110:ASP:OD1	1:I:177:ASN:ND2	2.47	0.46
1:I:144:PRO:HB3	1:I:160:ASN:H	1.81	0.46
1:J:25:LEU:HB2	1:J:533:ALA:HB1	1.98	0.46
1:J:37:ARG:N	1:J:519:GLN:O	2.47	0.46
1:J:433:GLY:N	1:J:438:THR:O	2.44	0.46
1:M:354:GLU:C	1:M:361:ALA:HB2	2.41	0.46
1:N:23:SER:O	1:N:27:THR:HG23	2.16	0.46
1:N:122:ASP:HB2	1:Z:496:ARG:CD	2.42	0.46
1:N:246:PHE:H	1:N:371:GLY:HA2	1.81	0.46
1:O:73:SER:O	1:O:77:THR:HG23	2.16	0.46
1:Q:279:GLU:HB2	1:Q:343:GLY:HA3	1.97	0.46
1:S:101:ASN:OD1	1:S:102:GLY:N	2.49	0.46
1:T:171:LEU:O	1:T:173:GLY:N	2.49	0.46
1:U:278:TYR:CE2	1:U:292:ALA:HB3	2.51	0.46
1:V:37:ARG:NH2	1:V:518:ILE:O	2.49	0.46
1:V:195:GLN:HE22	1:V:457:LYS:HE3	1.79	0.46
1:W:38:ILE:HD12	1:W:48:MET:HA	1.98	0.46
1:Y:301:ASN:OD1	1:Y:302:ALA:N	2.48	0.46
1:Y:314:ASN:OD1	1:c:314:ASN:HB3	2.16	0.46
1:Z:290:VAL:HG12	1:Z:298:ILE:HG12	1.98	0.46
1:Z:404:VAL:HG11	1:Z:407:LYS:HE2	1.97	0.46
1:b:211:PHE:HE2	1:b:426:THR:H	1.64	0.46
1:c:86:ASN:O	1:c:90:GLN:HG2	2.16	0.46
1:e:355:LEU:HG	1:e:357:TYR:H	1.81	0.46
1:i:189:VAL:HG23	1:i:432:VAL:HG21	1.97	0.46
1:k:110:ASP:OD1	1:k:177:ASN:ND2	2.46	0.46
1:k:546:GLN:O	1:k:550:VAL:HG23	2.16	0.46
1:l:410:LEU:HD23	1:l:413:ILE:HB	1.98	0.46
1:l:515:ARG:HA	1:l:518:ILE:HG22	1.97	0.46
1:m:288:PHE:HB3	1:m:290:VAL:HG13	1.98	0.46
1:m:402:THR:O	1:m:410:LEU:HD13	2.15	0.46
1:p:555:LEU:HD13	1:p:558:LEU:HD21	1.98	0.46
1:s:345:THR:HB	1:s:347:TYR:CE1	2.52	0.46
1:u:25:LEU:HB2	1:u:533:ALA:HB1	1.98	0.46
1:A:91:ARG:HG2	1:A:119:ARG:NH2	2.30	0.45
1:A:120:LEU:HD11	1:A:174:PHE:HB3	1.98	0.45
1:B:355:LEU:HB2	1:B:361:ALA:HB2	1.97	0.45
1:E:397:THR:HA	1:Q:399:SER:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:410:LEU:CD2	1:E:413:ILE:HB	2.46	0.45
1:F:55:THR:O	1:F:59:ARG:HG2	2.16	0.45
1:F:186:SER:HA	1:F:451:LEU:HG	1.97	0.45
1:G:23:SER:O	1:G:27:THR:HG23	2.16	0.45
1:G:171:LEU:C	1:G:173:GLY:H	2.23	0.45
1:G:497:LEU:O	1:G:500:THR:OG1	2.27	0.45
1:H:286:ALA:HA	1:u:316:ALA:HA	1.97	0.45
1:H:493:VAL:O	1:H:497:LEU:HD23	2.16	0.45
1:I:225:ASP:HB3	1:I:391:THR:O	2.15	0.45
1:I:536:LEU:HD22	1:f:5:ILE:HD12	1.97	0.45
1:I:546:GLN:HA	1:I:549:GLN:OE1	2.16	0.45
1:K:326:ASP:OD1	1:K:327:ASP:N	2.48	0.45
1:K:394:ILE:HG21	1:W:420:TYR:HB2	1.98	0.45
1:L:493:VAL:O	1:L:497:LEU:HD23	2.16	0.45
1:M:23:SER:O	1:M:27:THR:HG23	2.16	0.45
1:M:171:LEU:HD22	1:M:174:PHE:CD1	2.51	0.45
1:O:25:LEU:HB2	1:O:533:ALA:HB1	1.97	0.45
1:O:441:GLN:HB3	1:O:448:ALA:H	1.80	0.45
1:R:164:ILE:HD11	1:R:486:LEU:HD22	1.98	0.45
1:T:301:ASN:OD1	1:T:302:ALA:N	2.48	0.45
1:U:113:GLN:HE21	1:U:176:VAL:H	1.63	0.45
1:W:524:ALA:HB1	1:t:15:GLN:HG2	1.97	0.45
1:X:246:PHE:O	1:X:368:SER:OG	2.30	0.45
1:Y:376:VAL:HA	1:Y:379:VAL:HG12	1.98	0.45
1:Z:279:GLU:HB2	1:Z:343:GLY:HA3	1.96	0.45
1:b:147:LEU:HD22	1:b:159:LEU:HD21	1.98	0.45
1:d:148:GLN:HE21	1:d:153:ASP:HA	1.80	0.45
1:d:187:ALA:HB3	1:d:450:VAL:HG13	1.98	0.45
1:e:389:ALA:HB1	1:e:400:ASN:OD1	2.16	0.45
1:f:394:ILE:O	1:f:398:ASP:N	2.49	0.45
1:g:88:HIS:CE1	1:g:119:ARG:HH11	2.34	0.45
1:j:144:PRO:HB3	1:j:160:ASN:H	1.82	0.45
1:k:42:LYS:O	1:s:495:ASN:ND2	2.39	0.45
1:k:431:VAL:O	1:k:440:GLY:N	2.48	0.45
1:l:448:ALA:HB1	1:l:460:THR:HB	1.97	0.45
1:o:405:ASP:OD1	1:o:405:ASP:N	2.50	0.45
1:o:464:SER:OG	1:o:465:ALA:N	2.49	0.45
1:p:192:VAL:HB	1:p:205:TYR:CE2	2.51	0.45
1:s:148:GLN:NE2	1:s:150:GLY:O	2.49	0.45
1:s:555:LEU:HD13	1:s:558:LEU:HD21	1.98	0.45
1:t:144:PRO:HB2	1:t:158:THR:HG23	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:504:LEU:O	1:u:508:VAL:HG23	2.17	0.45
1:A:333:GLY:N	1:A:337:ASN:HB2	2.32	0.45
1:I:23:SER:O	1:I:27:THR:HG23	2.17	0.45
1:I:306:ASN:H	1:I:314:ASN:HD22	1.63	0.45
1:I:311:LEU:HD12	1:I:336:ALA:HB3	1.98	0.45
1:J:7:THR:OG1	1:R:516:SER:OG	2.14	0.45
1:J:410:LEU:CD2	1:J:413:ILE:HB	2.46	0.45
1:K:219:VAL:HG21	1:K:403:TRP:CZ2	2.50	0.45
1:K:350:SER:N	1:K:364:ALA:O	2.49	0.45
1:L:25:LEU:HB2	1:L:533:ALA:HB1	1.97	0.45
1:L:394:ILE:HG21	1:X:420:TYR:HB2	1.97	0.45
1:M:268:LYS:HE3	1:M:325:LEU:HD22	1.98	0.45
1:P:393:ALA:HB3	1:P:398:ASP:HA	1.99	0.45
1:R:93:ARG:O	1:R:97:VAL:HG23	2.17	0.45
1:S:275:SER:HB2	1:S:278:TYR:HE1	1.80	0.45
1:V:390:VAL:HG23	1:V:403:TRP:HH2	1.81	0.45
1:Z:91:ARG:HG2	1:Z:119:ARG:NH2	2.32	0.45
1:a:389:ALA:HB1	1:a:400:ASN:OD1	2.16	0.45
1:e:145:LEU:HB2	1:e:159:LEU:HD12	1.97	0.45
1:e:254:THR:O	1:e:360:VAL:HG11	2.16	0.45
1:i:57:ASN:O	1:i:61:LEU:HG	2.17	0.45
1:q:155:GLU:OE1	1:q:155:GLU:N	2.49	0.45
1:r:116:ILE:HD13	1:r:174:PHE:HE2	1.81	0.45
1:s:167:LYS:HG2	1:s:167:LYS:O	2.16	0.45
1:v:404:VAL:HG11	1:v:407:LYS:HE3	1.98	0.45
1:D:167:LYS:O	1:D:167:LYS:HG2	2.17	0.45
1:E:23:SER:O	1:E:27:THR:HG23	2.16	0.45
1:E:110:ASP:OD1	1:E:177:ASN:ND2	2.49	0.45
1:E:354:GLU:C	1:E:361:ALA:HB2	2.41	0.45
1:E:516:SER:HA	1:E:520:ASP:OD2	2.17	0.45
1:F:108:GLN:HG2	1:J:50:ILE:CD1	2.45	0.45
1:F:354:GLU:C	1:F:361:ALA:HB2	2.41	0.45
1:G:410:LEU:CD2	1:G:413:ILE:HB	2.45	0.45
1:G:555:LEU:HG	1:G:555:LEU:O	2.16	0.45
1:I:153:ASP:H	1:Q:473:LEU:HD12	1.80	0.45
1:K:131:ASP:OD1	1:K:132:PHE:N	2.49	0.45
1:M:420:TYR:N	1:Y:394:ILE:HG21	2.30	0.45
1:P:407:LYS:HG3	1:P:409:GLU:H	1.81	0.45
1:Q:58:VAL:HG13	1:Q:508:VAL:HG13	1.97	0.45
1:T:91:ARG:HG2	1:T:119:ARG:NH2	2.32	0.45
1:T:129:GLN:HG3	1:f:155:GLU:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:131:ASP:OD1	1:W:132:PHE:N	2.49	0.45
1:W:393:ALA:HB3	1:W:398:ASP:HA	1.99	0.45
1:X:113:GLN:HE21	1:X:176:VAL:H	1.64	0.45
1:Y:206:LYS:NZ	1:Y:427:GLY:O	2.49	0.45
1:Y:374:THR:O	1:Y:378:THR:HG23	2.16	0.45
1:Z:500:THR:O	1:Z:504:LEU:HD23	2.16	0.45
1:a:451:LEU:HD13	1:a:462:THR:HG22	1.98	0.45
1:d:400:ASN:OD1	1:d:401:ASN:N	2.50	0.45
1:h:125:ARG:HH21	1:t:500:THR:HG22	1.82	0.45
1:i:118:GLN:OE1	1:u:496:ARG:NH2	2.49	0.45
1:i:288:PHE:HB3	1:i:290:VAL:HG13	1.99	0.45
1:j:231:VAL:HG13	1:j:386:THR:HG22	1.98	0.45
1:k:148:GLN:NE2	1:k:150:GLY:O	2.49	0.45
1:n:231:VAL:HA	1:n:386:THR:HA	1.98	0.45
1:A:412:ASP:OD1	1:A:413:ILE:HG12	2.16	0.45
1:C:189:VAL:O	1:C:193:ILE:HG13	2.17	0.45
1:C:287:SER:O	1:V:301:ASN:ND2	2.49	0.45
1:D:127:SER:CB	1:D:165:SER:HB3	2.46	0.45
1:D:145:LEU:HB2	1:D:159:LEU:HD12	1.98	0.45
1:D:388:ALA:C	1:D:403:TRP:HD1	2.24	0.45
1:D:449:LYS:O	1:D:451:LEU:HD12	2.15	0.45
1:E:188:THR:N	1:E:191:ASP:OD2	2.41	0.45
1:F:350:SER:N	1:F:364:ALA:O	2.49	0.45
1:G:145:LEU:HB2	1:G:159:LEU:HD12	1.98	0.45
1:I:138:LEU:HD11	1:I:164:ILE:HD12	1.99	0.45
1:I:145:LEU:HB2	1:I:159:LEU:HD12	1.98	0.45
1:I:305:LEU:HA	1:I:314:ASN:H	1.81	0.45
1:I:312:THR:HB	1:v:316:ALA:HB3	1.97	0.45
1:L:420:TYR:N	1:X:394:ILE:HG21	2.30	0.45
1:N:113:GLN:O	1:N:117:ASN:ND2	2.49	0.45
1:P:524:ALA:HB1	1:m:15:GLN:HG2	1.98	0.45
1:Q:165:SER:OG	1:Q:166:VAL:O	2.30	0.45
1:R:41:ALA:HB2	1:R:48:MET:SD	2.57	0.45
1:R:66:ARG:HH22	1:d:37:ARG:HH21	1.63	0.45
1:V:231:VAL:HA	1:V:386:THR:HG22	1.98	0.45
1:W:51:ALA:O	1:W:55:THR:HG23	2.16	0.45
1:W:390:VAL:HG23	1:W:403:TRP:HH2	1.80	0.45
1:X:394:ILE:O	1:X:398:ASP:N	2.50	0.45
1:Y:275:SER:HB2	1:Y:278:TYR:CE1	2.52	0.45
1:Z:281:SER:HA	1:Z:286:ALA:HB3	1.97	0.45
1:Z:287:SER:HB2	1:d:301:ASN:HD21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:374:THR:O	1:Z:378:THR:HG23	2.16	0.45
1:a:162:SER:OG	1:a:163:GLU:OE1	2.27	0.45
1:a:205:TYR:O	1:a:430:THR:N	2.48	0.45
1:a:304:PHE:HA	1:a:323:ALA:HB2	1.98	0.45
1:c:404:VAL:HG11	1:c:407:LYS:HG2	1.99	0.45
1:d:394:ILE:O	1:d:398:ASP:N	2.49	0.45
1:e:546:GLN:O	1:e:550:VAL:HG23	2.15	0.45
1:f:88:HIS:CE1	1:f:119:ARG:HH11	2.34	0.45
1:g:304:PHE:HA	1:g:323:ALA:HB2	1.97	0.45
1:i:32:LEU:HB3	1:u:543:VAL:HG21	1.98	0.45
1:i:81:ALA:O	1:i:85:VAL:HG23	2.16	0.45
1:j:81:ALA:O	1:j:85:VAL:HG23	2.16	0.45
1:k:54:PHE:HE1	1:k:511:LEU:HD22	1.81	0.45
1:k:169:LEU:HD12	1:k:479:ALA:HB1	1.98	0.45
1:l:144:PRO:HB2	1:l:158:THR:HG23	1.97	0.45
1:l:171:LEU:C	1:l:173:GLY:H	2.24	0.45
1:u:332:VAL:HG11	1:u:342:ILE:HD11	1.98	0.45
1:v:329:LEU:HA	1:v:332:VAL:HG12	1.99	0.45
1:v:468:LYS:HD2	1:v:469:THR:N	2.32	0.45
1:v:555:LEU:HD13	1:v:558:LEU:HD21	1.98	0.45
1:C:301:ASN:HD21	1:V:287:SER:HB2	1.81	0.45
1:C:404:VAL:HG11	1:C:407:LYS:HG2	1.99	0.45
1:C:441:GLN:HG2	1:C:445:ALA:HB3	1.98	0.45
1:C:535:ILE:HD11	1:F:552:GLN:NE2	2.32	0.45
1:E:420:TYR:N	1:Q:394:ILE:HG21	2.32	0.45
1:F:171:LEU:O	1:F:173:GLY:N	2.50	0.45
1:G:407:LYS:HZ3	1:G:409:GLU:HB3	1.81	0.45
1:H:350:SER:N	1:H:364:ALA:O	2.50	0.45
1:H:497:LEU:O	1:H:500:THR:OG1	2.30	0.45
1:I:57:ASN:O	1:I:61:LEU:HG	2.17	0.45
1:I:332:VAL:O	1:I:332:VAL:HG13	2.16	0.45
1:I:333:GLY:N	1:I:337:ASN:HB2	2.32	0.45
1:K:182:THR:O	1:K:464:SER:N	2.50	0.45
1:K:490:LEU:HA	1:K:493:VAL:HG12	1.99	0.45
1:L:354:GLU:C	1:L:361:ALA:HB2	2.42	0.45
1:L:500:THR:HG22	1:q:125:ARG:NH2	2.31	0.45
1:N:416:PHE:CG	1:N:417:ASP:N	2.85	0.45
1:N:464:SER:OG	1:N:465:ALA:N	2.49	0.45
1:N:543:VAL:HG22	1:s:29:ILE:HG23	1.99	0.45
1:O:113:GLN:O	1:O:117:ASN:ND2	2.50	0.45
1:O:496:ARG:O	1:O:500:THR:HG23	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:494:GLN:O	1:P:498:GLU:HG3	2.16	0.45
1:R:531:SER:O	1:R:535:ILE:HG12	2.16	0.45
1:T:398:ASP:OD1	1:T:399:SER:N	2.49	0.45
1:V:66:ARG:HH22	1:h:37:ARG:HH21	1.63	0.45
1:V:496:ARG:O	1:V:500:THR:HG23	2.16	0.45
1:X:316:ALA:HB2	1:b:288:PHE:HE2	1.81	0.45
1:Y:77:THR:HG22	1:k:510:ASN:HB3	1.99	0.45
1:Z:189:VAL:HG23	1:Z:205:TYR:HE2	1.82	0.45
1:b:248:TYR:OH	1:b:250:LYS:NZ	2.50	0.45
1:c:254:THR:O	1:c:360:VAL:HG11	2.17	0.45
1:d:86:ASN:O	1:d:90:GLN:HG2	2.16	0.45
1:e:99:ALA:HB1	1:e:176:VAL:HG11	1.98	0.45
1:e:162:SER:OG	1:e:163:GLU:OE1	2.23	0.45
1:f:14:ALA:HB3	1:f:544:LEU:HD13	1.98	0.45
1:g:256:VAL:HG12	1:g:259:ASP:H	1.81	0.45
1:g:394:ILE:HD13	1:s:420:TYR:H	1.81	0.45
1:k:6:ASN:HB2	1:s:520:ASP:OD2	2.16	0.45
1:l:317:SER:HA	1:l:321:THR:HG21	1.99	0.45
1:r:216:ALA:HA	1:r:403:TRP:HH2	1.81	0.45
1:r:405:ASP:OD1	1:r:405:ASP:N	2.50	0.45
1:t:127:SER:CB	1:t:165:SER:HB3	2.46	0.45
1:t:274:ILE:HG12	1:t:293:ALA:HA	1.99	0.45
1:u:449:LYS:O	1:u:451:LEU:HD12	2.16	0.45
1:v:311:LEU:HD13	1:v:331:SER:HB2	1.99	0.45
1:A:231:VAL:HA	1:A:386:THR:HA	1.99	0.45
1:B:385:ILE:HA	1:B:405:ASP:HB2	1.97	0.45
1:C:288:PHE:HB3	1:C:290:VAL:HG13	1.98	0.45
1:D:144:PRO:HB2	1:D:158:THR:HG23	1.99	0.45
1:E:219:VAL:HG21	1:E:403:TRP:CZ2	2.47	0.45
1:E:317:SER:HA	1:E:321:THR:HG21	1.97	0.45
1:G:88:HIS:CE1	1:G:119:ARG:HH11	2.35	0.45
1:H:84:GLU:OE1	1:H:84:GLU:HA	2.16	0.45
1:J:354:GLU:C	1:J:361:ALA:HB2	2.42	0.45
1:J:544:LEU:HD22	1:V:557:LEU:HD13	1.99	0.45
1:N:354:GLU:C	1:N:361:ALA:HB2	2.41	0.45
1:O:186:SER:HA	1:O:451:LEU:HG	1.98	0.45
1:R:91:ARG:HG2	1:R:119:ARG:NH2	2.31	0.45
1:T:59:ARG:HD2	1:b:94:GLU:HB2	1.98	0.45
1:T:394:ILE:O	1:T:398:ASP:N	2.50	0.45
1:U:129:GLN:HG3	1:g:155:GLU:HG3	1.99	0.45
1:U:505:ASN:O	1:U:509:ASN:ND2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:374:THR:O	1:V:378:THR:HG23	2.15	0.45
1:Y:133:ASN:ND2	1:g:103:SER:O	2.49	0.45
1:Y:394:ILE:O	1:Y:398:ASP:N	2.50	0.45
1:Y:451:LEU:HD13	1:Y:462:THR:HA	1.98	0.45
1:a:410:LEU:HB3	1:a:413:ILE:HB	1.99	0.45
1:b:275:SER:HB3	1:b:278:TYR:OH	2.16	0.45
1:c:74:LEU:HD13	1:c:132:PHE:CD1	2.51	0.45
1:c:188:THR:O	1:c:192:VAL:HG23	2.17	0.45
1:d:69:ASN:HA	1:d:72:ILE:HD12	1.98	0.45
1:f:200:GLN:N	1:f:204:THR:O	2.48	0.45
1:g:171:LEU:O	1:g:173:GLY:N	2.49	0.45
1:j:394:ILE:HD13	1:v:420:TYR:H	1.81	0.45
1:k:99:ALA:HB2	1:k:112:VAL:HG11	1.99	0.45
1:k:416:PHE:CE2	1:k:421:LYS:HB3	2.52	0.45
1:n:41:ALA:CB	1:n:48:MET:HG2	2.47	0.45
1:n:516:SER:HA	1:n:520:ASP:OD1	2.17	0.45
1:q:304:PHE:O	1:q:314:ASN:N	2.48	0.45
1:q:311:LEU:HD13	1:q:331:SER:HB2	1.98	0.45
1:s:546:GLN:O	1:s:550:VAL:HG23	2.17	0.45
1:t:464:SER:OG	1:t:465:ALA:N	2.50	0.45
1:u:288:PHE:HB3	1:u:290:VAL:HG13	1.98	0.45
1:H:279:GLU:O	1:H:343:GLY:N	2.43	0.45
1:H:416:PHE:CG	1:H:417:ASP:N	2.85	0.45
1:I:138:LEU:HD11	1:I:164:ILE:HB	1.98	0.45
1:K:151:ALA:HB1	1:S:93:ARG:NH2	2.32	0.45
1:K:231:VAL:HA	1:K:386:THR:HA	1.99	0.45
1:L:407:LYS:HZ3	1:L:409:GLU:HB3	1.81	0.45
1:M:131:ASP:OD1	1:M:132:PHE:N	2.50	0.45
1:N:155:GLU:OE1	1:N:155:GLU:N	2.49	0.45
1:O:23:SER:O	1:O:27:THR:HG23	2.17	0.45
1:O:171:LEU:O	1:O:173:GLY:N	2.49	0.45
1:O:390:VAL:CG2	1:O:403:TRP:HH2	2.29	0.45
1:P:131:ASP:OD1	1:P:132:PHE:N	2.50	0.45
1:Q:394:ILE:O	1:Q:398:ASP:N	2.49	0.45
1:U:15:GLN:HG2	1:o:524:ALA:HB1	1.97	0.45
1:U:91:ARG:HG2	1:U:119:ARG:NH2	2.32	0.45
1:U:131:ASP:OD1	1:U:132:PHE:N	2.50	0.45
1:V:54:PHE:O	1:V:58:VAL:HG23	2.17	0.45
1:Y:290:VAL:HG12	1:Y:298:ILE:HG12	1.99	0.45
1:Z:306:ASN:HD22	1:d:306:ASN:ND2	2.14	0.45
1:Z:390:VAL:HG23	1:Z:403:TRP:HH2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:376:VAL:HA	1:c:379:VAL:HG12	1.98	0.45
1:d:254:THR:O	1:d:360:VAL:HG11	2.17	0.45
1:e:165:SER:O	1:e:169:LEU:HD23	2.17	0.45
1:f:153:ASP:OD1	1:n:474:LYS:NZ	2.42	0.45
1:f:398:ASP:OD1	1:f:399:SER:N	2.50	0.45
1:g:254:THR:O	1:g:360:VAL:HG11	2.17	0.45
1:i:253:ASP:HA	1:i:263:LEU:HD13	1.99	0.45
1:i:254:THR:HG21	1:i:262:ALA:HB3	1.99	0.45
1:i:434:ASP:OD1	1:i:435:ASN:N	2.50	0.45
1:j:58:VAL:O	1:j:62:THR:HG23	2.17	0.45
1:j:185:ARG:NH2	1:j:191:ASP:OD2	2.49	0.45
1:k:230:ALA:HB2	1:k:236:THR:HG23	1.99	0.45
1:n:449:LYS:O	1:n:451:LEU:HD12	2.15	0.45
1:q:274:ILE:HG12	1:q:293:ALA:HA	1.98	0.45
1:t:351:ALA:HA	1:t:363:THR:HA	1.99	0.45
1:u:167:LYS:O	1:u:167:LYS:HG2	2.17	0.45
1:A:92:ILE:HD11	1:A:119:ARG:HB3	1.99	0.45
1:B:66:ARG:HH22	1:a:37:ARG:HH21	1.63	0.45
1:B:218:THR:O	1:B:420:TYR:OH	2.35	0.45
1:C:110:ASP:HA	1:C:177:ASN:ND2	2.32	0.45
1:C:125:ARG:HH21	1:l:500:THR:HG22	1.82	0.45
1:C:304:PHE:N	1:C:314:ASN:O	2.49	0.45
1:D:29:ILE:HG23	1:F:543:VAL:HG22	1.99	0.45
1:F:25:LEU:HB2	1:F:533:ALA:HB1	1.98	0.45
1:H:131:ASP:OD1	1:H:132:PHE:N	2.49	0.45
1:I:166:VAL:HG13	1:I:172:ASP:HA	1.99	0.45
1:J:81:ALA:O	1:J:85:VAL:HG23	2.17	0.45
1:J:493:VAL:O	1:J:497:LEU:HD23	2.17	0.45
1:J:527:VAL:HG11	1:s:557:LEU:HD13	1.97	0.45
1:K:116:ILE:O	1:K:120:LEU:HG	2.17	0.45
1:K:413:ILE:HD12	1:W:396:THR:HG22	1.99	0.45
1:L:23:SER:O	1:L:27:THR:HG23	2.16	0.45
1:M:546:GLN:HA	1:M:549:GLN:OE1	2.17	0.45
1:N:307:ALA:O	1:N:311:LEU:N	2.32	0.45
1:O:311:LEU:HD12	1:O:336:ALA:HB3	1.99	0.45
1:P:247:THR:HA	1:P:368:SER:HB2	1.99	0.45
1:P:336:ALA:HB1	1:P:340:VAL:HB	1.99	0.45
1:Q:534:GLN:O	1:Q:538:GLN:HG3	2.17	0.45
1:S:42:LYS:NZ	1:a:498:GLU:OE1	2.48	0.45
1:S:383:SER:OG	1:S:405:ASP:O	2.35	0.45
1:U:41:ALA:HB2	1:U:48:MET:SD	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:6:ASN:O	1:p:532:LYS:NZ	2.43	0.45
1:W:101:ASN:OD1	1:W:102:GLY:N	2.50	0.45
1:X:37:ARG:N	1:X:519:GLN:O	2.49	0.45
1:Y:51:ALA:O	1:Y:55:THR:HG23	2.15	0.45
1:Z:493:VAL:HG22	1:Z:497:LEU:HD23	1.99	0.45
1:a:175:ASN:HB3	1:a:469:THR:HG23	1.99	0.45
1:a:254:THR:O	1:a:360:VAL:HG11	2.17	0.45
1:b:118:GLN:OE1	1:n:496:ARG:NH2	2.49	0.45
1:c:324:THR:HG23	1:c:327:ASP:H	1.81	0.45
1:d:185:ARG:NH2	1:d:191:ASP:OD2	2.50	0.45
1:h:59:ARG:HG2	1:p:94:GLU:OE1	2.16	0.45
1:j:175:ASN:ND2	1:j:180:GLY:HA3	2.31	0.45
1:k:40:SER:O	1:k:42:LYS:HG2	2.16	0.45
1:l:73:SER:O	1:l:77:THR:HG23	2.17	0.45
1:n:145:LEU:HB2	1:n:159:LEU:HD12	1.99	0.45
1:q:187:ALA:HB2	1:q:452:VAL:HG23	1.99	0.45
1:s:84:GLU:HA	1:s:84:GLU:OE2	2.17	0.45
1:t:515:ARG:HA	1:t:518:ILE:HG22	1.98	0.45
1:t:555:LEU:HD13	1:t:558:LEU:HD21	1.98	0.45
1:u:410:LEU:HD12	1:u:411:THR:N	2.31	0.45
1:A:23:SER:O	1:A:27:THR:HG23	2.17	0.45
1:A:86:ASN:HD21	1:m:52:ASN:ND2	2.14	0.45
1:A:88:HIS:CE1	1:A:119:ARG:HH11	2.34	0.45
1:A:171:LEU:C	1:A:173:GLY:H	2.25	0.45
1:A:317:SER:HA	1:A:321:THR:HG21	1.98	0.45
1:C:88:HIS:ND1	1:C:119:ARG:HD2	2.32	0.45
1:C:324:THR:HG23	1:C:327:ASP:H	1.82	0.45
1:G:420:TYR:N	1:S:394:ILE:HG21	2.32	0.45
1:G:493:VAL:O	1:G:497:LEU:HD23	2.16	0.45
1:H:544:LEU:HD22	1:T:557:LEU:HD13	1.99	0.45
1:I:350:SER:N	1:I:364:ALA:O	2.50	0.45
1:J:177:ASN:HD21	1:J:179:LYS:HZ2	1.64	0.45
1:K:23:SER:O	1:K:27:THR:HG23	2.16	0.45
1:K:197:GLY:N	1:K:205:TYR:OH	2.50	0.45
1:N:42:LYS:O	1:V:495:ASN:ND2	2.36	0.45
1:N:497:LEU:O	1:N:500:THR:OG1	2.29	0.45
1:O:144:PRO:HB3	1:O:160:ASN:H	1.82	0.45
1:U:246:PHE:O	1:U:368:SER:OG	2.30	0.45
1:X:38:ILE:HD12	1:X:48:MET:HA	1.99	0.45
1:Y:496:ARG:O	1:Y:500:THR:HG23	2.16	0.45
1:Z:22:GLN:HB2	1:Z:537:GLN:HE22	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:69:ASN:HA	1:c:72:ILE:HD12	1.99	0.45
1:g:14:ALA:HB3	1:g:544:LEU:HD13	1.99	0.45
1:g:69:ASN:HA	1:g:72:ILE:HD13	1.98	0.45
1:h:206:LYS:NZ	1:h:208:THR:HG22	2.32	0.45
1:j:254:THR:O	1:j:360:VAL:HG11	2.17	0.45
1:k:81:ALA:O	1:k:85:VAL:HG23	2.17	0.45
1:k:304:PHE:HA	1:k:323:ALA:HB2	1.99	0.45
1:k:441:GLN:HG2	1:k:445:ALA:HB3	1.99	0.45
1:l:274:ILE:HG12	1:l:293:ALA:HA	1.99	0.45
1:l:376:VAL:O	1:l:380:THR:HG22	2.17	0.45
1:l:438:THR:HG21	1:l:449:LYS:HD2	1.98	0.45
1:n:208:THR:HB	1:n:425:ASP:OD2	2.16	0.45
1:n:228:THR:HG22	1:n:238:THR:HG23	1.99	0.45
1:o:204:THR:HA	1:o:431:VAL:HA	1.99	0.45
1:o:468:LYS:HE3	1:o:468:LYS:HB3	1.84	0.45
1:p:464:SER:OG	1:p:465:ALA:N	2.50	0.45
1:r:127:SER:CB	1:r:165:SER:HB3	2.47	0.45
1:v:167:LYS:HG2	1:v:167:LYS:O	2.16	0.45
1:A:35:GLY:O	1:m:6:ASN:ND2	2.50	0.45
1:B:91:ARG:HG2	1:B:119:ARG:NH2	2.32	0.45
1:B:419:SER:OG	1:B:421:LYS:NZ	2.50	0.45
1:D:174:PHE:HA	1:D:469:THR:HG21	1.99	0.45
1:D:211:PHE:CE2	1:D:426:THR:HG23	2.52	0.45
1:E:125:ARG:NH2	1:Q:500:THR:HG22	2.32	0.45
1:G:37:ARG:N	1:G:519:GLN:O	2.48	0.45
1:G:354:GLU:C	1:G:361:ALA:HB2	2.41	0.45
1:H:113:GLN:O	1:H:117:ASN:ND2	2.50	0.45
1:H:155:GLU:N	1:H:155:GLU:OE1	2.49	0.45
1:I:175:ASN:ND2	1:I:467:ASP:O	2.50	0.45
1:J:197:GLY:N	1:J:205:TYR:OH	2.49	0.45
1:J:260:VAL:HG21	1:J:335:GLU:HG3	1.99	0.45
1:J:523:TYR:CE2	1:s:5:ILE:HG12	2.52	0.45
1:K:37:ARG:N	1:K:519:GLN:O	2.44	0.45
1:M:496:ARG:CG	1:r:122:ASP:HB2	2.47	0.45
1:N:151:ALA:HB1	1:V:93:ARG:NH2	2.32	0.45
1:O:55:THR:HA	1:O:58:VAL:HG12	1.99	0.45
1:R:249:THR:HB	1:R:366:VAL:HG22	1.99	0.45
1:S:187:ALA:H	1:S:451:LEU:HA	1.82	0.45
1:S:394:ILE:O	1:S:398:ASP:N	2.50	0.45
1:W:66:ARG:HH22	1:i:37:ARG:HH21	1.64	0.45
1:X:279:GLU:HB2	1:X:343:GLY:HA3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:113:GLN:NE2	1:Y:175:ASN:HA	2.32	0.45
1:Z:312:THR:HB	1:d:316:ALA:HB3	1.98	0.45
1:a:38:ILE:HD12	1:a:519:GLN:HA	1.99	0.45
1:b:249:THR:HG22	1:b:366:VAL:HG22	1.99	0.45
1:c:81:ALA:O	1:c:85:VAL:HG23	2.16	0.45
1:f:6:ASN:HB2	1:n:520:ASP:OD2	2.17	0.45
1:h:254:THR:O	1:h:360:VAL:HG11	2.17	0.45
1:k:254:THR:O	1:k:360:VAL:HG11	2.17	0.45
1:k:549:GLN:OE1	1:k:552:GLN:HG3	2.17	0.45
1:m:155:GLU:OE1	1:m:155:GLU:N	2.49	0.45
1:m:182:THR:HG23	1:m:466:GLY:HA2	1.98	0.45
1:n:88:HIS:CE1	1:n:119:ARG:HH11	2.35	0.45
1:n:98:GLN:HG2	1:n:104:TYR:HE2	1.82	0.45
1:o:329:LEU:HA	1:o:332:VAL:HG12	1.99	0.45
1:r:351:ALA:HA	1:r:363:THR:HA	1.98	0.45
1:u:138:LEU:HG	1:u:164:ILE:HB	1.99	0.45
1:v:167:LYS:HE3	1:v:167:LYS:HB3	1.86	0.45
1:E:227:ASN:HB3	1:E:239:TYR:HB2	1.99	0.44
1:F:219:VAL:HG21	1:F:403:TRP:HZ2	1.81	0.44
1:G:86:ASN:OD1	1:G:90:GLN:NE2	2.50	0.44
1:G:182:THR:O	1:G:464:SER:N	2.51	0.44
1:H:212:ASN:HA	1:H:414:GLN:HG3	1.99	0.44
1:H:246:PHE:H	1:H:371:GLY:HA2	1.82	0.44
1:H:305:LEU:HA	1:H:314:ASN:H	1.81	0.44
1:H:355:LEU:N	1:H:361:ALA:HB2	2.31	0.44
1:I:147:LEU:HD23	1:Q:101:ASN:HD21	1.82	0.44
1:I:399:SER:OG	1:U:396:THR:O	2.27	0.44
1:L:86:ASN:HD21	1:u:52:ASN:ND2	2.15	0.44
1:L:93:ARG:NH2	1:u:151:ALA:HB1	2.30	0.44
1:L:355:LEU:N	1:L:361:ALA:HB2	2.31	0.44
1:N:162:SER:OG	1:N:163:GLU:OE2	2.32	0.44
1:P:91:ARG:HG2	1:P:119:ARG:NH2	2.32	0.44
1:P:368:SER:O	1:P:368:SER:OG	2.30	0.44
1:P:394:ILE:O	1:P:398:ASP:N	2.51	0.44
1:Q:494:GLN:O	1:Q:498:GLU:HG3	2.18	0.44
1:T:490:LEU:HA	1:T:493:VAL:HG12	1.99	0.44
1:U:355:LEU:HB2	1:U:361:ALA:HB2	1.99	0.44
1:V:490:LEU:HA	1:V:493:VAL:HG12	1.98	0.44
1:X:390:VAL:HG23	1:X:403:TRP:HH2	1.82	0.44
1:Z:6:ASN:O	1:t:532:LYS:NZ	2.41	0.44
1:a:30:GLU:OE2	1:a:39:ASN:ND2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:88:HIS:ND1	1:b:119:ARG:HD2	2.33	0.44
1:c:302:ALA:O	1:c:315:ASP:HB3	2.17	0.44
1:d:25:LEU:HB2	1:d:533:ALA:HB1	1.99	0.44
1:d:57:ASN:O	1:d:61:LEU:HG	2.17	0.44
1:g:189:VAL:O	1:g:193:ILE:HG13	2.17	0.44
1:g:334:THR:HG23	1:g:355:LEU:HB3	1.99	0.44
1:h:189:VAL:O	1:h:193:ILE:HG13	2.18	0.44
1:o:138:LEU:HD11	1:o:164:ILE:HB	1.99	0.44
1:p:225:ASP:HB3	1:p:391:THR:O	2.17	0.44
1:r:101:ASN:OD1	1:r:102:GLY:N	2.51	0.44
1:r:248:TYR:HB3	1:r:369:ALA:O	2.18	0.44
1:r:438:THR:HG21	1:r:449:LYS:HD2	1.99	0.44
1:r:449:LYS:O	1:r:451:LEU:HD12	2.17	0.44
1:s:171:LEU:C	1:s:173:GLY:H	2.25	0.44
1:u:304:PHE:O	1:u:314:ASN:N	2.41	0.44
1:u:307:ALA:HB1	1:u:310:GLU:HB2	1.99	0.44
1:A:394:ILE:HG21	1:P:420:TYR:HB2	1.99	0.44
1:A:521:ALA:HB1	1:A:526:GLU:HG3	1.98	0.44
1:B:25:LEU:HB2	1:B:533:ALA:HB1	2.00	0.44
1:B:165:SER:OG	1:B:166:VAL:O	2.32	0.44
1:C:86:ASN:O	1:C:90:GLN:HG2	2.17	0.44
1:C:410:LEU:HB3	1:C:413:ILE:HB	1.99	0.44
1:E:57:ASN:O	1:E:61:LEU:HG	2.17	0.44
1:H:23:SER:O	1:H:27:THR:HG23	2.17	0.44
1:H:354:GLU:C	1:H:361:ALA:HB2	2.42	0.44
1:H:441:GLN:HE22	1:H:444:SER:N	2.05	0.44
1:I:125:ARG:NH2	1:U:500:THR:HG22	2.32	0.44
1:K:499:SER:OG	1:p:88:HIS:NE2	2.51	0.44
1:L:35:GLY:C	1:u:6:ASN:HD21	2.25	0.44
1:O:464:SER:OG	1:O:465:ALA:N	2.50	0.44
1:P:66:ARG:HH22	1:b:37:ARG:HH21	1.65	0.44
1:P:398:ASP:OD1	1:P:399:SER:N	2.50	0.44
1:Q:113:GLN:HE21	1:Q:176:VAL:H	1.64	0.44
1:R:120:LEU:HD11	1:R:174:PHE:HB3	1.99	0.44
1:R:416:PHE:CD2	1:R:421:LYS:HG3	2.52	0.44
1:R:524:ALA:HB1	1:o:15:GLN:HG2	1.99	0.44
1:S:91:ARG:HG2	1:S:119:ARG:NH2	2.31	0.44
1:S:93:ARG:O	1:S:97:VAL:HG23	2.17	0.44
1:S:493:VAL:HG22	1:S:497:LEU:HD23	1.99	0.44
1:X:58:VAL:HG13	1:X:508:VAL:HG13	1.99	0.44
1:X:314:ASN:OD1	1:b:314:ASN:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:376:VAL:HA	1:X:379:VAL:HG12	1.99	0.44
1:Z:334:THR:HG23	1:Z:355:LEU:HB3	1.98	0.44
1:a:144:PRO:HB3	1:a:160:ASN:HA	2.00	0.44
1:c:231:VAL:HG13	1:c:386:THR:HG22	1.99	0.44
1:d:84:GLU:OE2	1:p:499:SER:OG	2.34	0.44
1:d:398:ASP:OD1	1:d:399:SER:N	2.49	0.44
1:e:231:VAL:HG13	1:e:386:THR:HG22	1.99	0.44
1:j:256:VAL:HG12	1:j:259:ASP:H	1.82	0.44
1:j:412:ASP:OD1	1:j:412:ASP:N	2.42	0.44
1:l:138:LEU:HG	1:l:164:ILE:HB	2.00	0.44
1:l:394:ILE:HB	1:l:397:THR:HG22	1.97	0.44
1:n:110:ASP:OD1	1:n:177:ASN:ND2	2.51	0.44
1:n:171:LEU:O	1:n:173:GLY:N	2.50	0.44
1:n:438:THR:HG21	1:n:449:LYS:HD2	1.98	0.44
1:s:410:LEU:HD11	1:s:412:ASP:HB3	2.00	0.44
1:u:40:SER:O	1:u:42:LYS:HG3	2.17	0.44
1:A:229:VAL:HG22	1:A:239:TYR:HE1	1.82	0.44
1:F:497:LEU:O	1:F:501:ILE:HG12	2.18	0.44
1:F:509:ASN:ND2	1:o:16:ASN:HD21	2.15	0.44
1:G:64:ALA:CB	1:G:150:GLY:H	2.30	0.44
1:I:402:THR:C	1:I:410:LEU:HD13	2.43	0.44
1:J:464:SER:OG	1:J:465:ALA:N	2.49	0.44
1:K:552:GLN:NE2	1:e:535:ILE:HD11	2.32	0.44
1:M:250:LYS:NZ	1:M:252:VAL:HG22	2.32	0.44
1:M:522:ASP:OD1	1:v:3:ALA:N	2.50	0.44
1:N:536:LEU:HD22	1:k:5:ILE:HD12	1.98	0.44
1:O:497:LEU:O	1:O:500:THR:OG1	2.29	0.44
1:O:532:LYS:O	1:O:536:LEU:HD23	2.18	0.44
1:P:301:ASN:OD1	1:P:302:ALA:N	2.49	0.44
1:P:391:THR:HG23	1:P:398:ASP:OD1	2.17	0.44
1:Q:457:LYS:HG3	1:Q:458:LEU:H	1.82	0.44
1:R:171:LEU:HB3	1:R:174:PHE:HB2	2.00	0.44
1:S:66:ARG:HH22	1:e:37:ARG:HH21	1.64	0.44
1:S:374:THR:O	1:S:378:THR:HG23	2.17	0.44
1:T:416:PHE:CE2	1:T:421:LYS:HG3	2.52	0.44
1:X:451:LEU:HD13	1:X:462:THR:HA	1.99	0.44
1:Y:66:ARG:HH22	1:k:37:ARG:HH21	1.64	0.44
1:a:302:ALA:O	1:a:315:ASP:HB3	2.18	0.44
1:c:138:LEU:HD12	1:c:138:LEU:HA	1.79	0.44
1:d:246:PHE:O	1:d:371:GLY:HA2	2.18	0.44
1:e:57:ASN:O	1:e:61:LEU:HG	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:188:THR:O	1:e:192:VAL:HG23	2.18	0.44
1:i:394:ILE:HD13	1:u:420:TYR:H	1.81	0.44
1:k:385:ILE:HA	1:k:405:ASP:HB2	2.00	0.44
1:m:438:THR:HG21	1:m:449:LYS:HD2	1.99	0.44
1:n:500:THR:O	1:n:504:LEU:HD23	2.17	0.44
1:o:349:HIS:ND1	1:o:365:ASP:HB2	2.33	0.44
1:o:500:THR:O	1:o:504:LEU:HD23	2.17	0.44
1:p:101:ASN:OD1	1:p:102:GLY:N	2.50	0.44
1:p:211:PHE:HB3	1:p:415:THR:O	2.18	0.44
1:q:40:SER:O	1:q:42:LYS:HG3	2.16	0.44
1:q:167:LYS:HG2	1:q:167:LYS:O	2.17	0.44
1:q:307:ALA:HB1	1:q:310:GLU:HB2	1.99	0.44
1:q:449:LYS:O	1:q:451:LEU:HD12	2.17	0.44
1:t:37:ARG:NH2	1:t:518:ILE:O	2.50	0.44
1:t:216:ALA:HA	1:t:403:TRP:HH2	1.83	0.44
1:v:13:VAL:HA	1:v:16:ASN:HD22	1.83	0.44
1:A:260:VAL:HG21	1:A:335:GLU:HG3	1.97	0.44
1:B:171:LEU:O	1:B:173:GLY:N	2.49	0.44
1:B:301:ASN:OD1	1:B:302:ALA:N	2.46	0.44
1:D:39:ASN:C	1:D:39:ASN:ND2	2.59	0.44
1:D:239:TYR:HB3	1:D:246:PHE:HD2	1.82	0.44
1:D:281:SER:HA	1:D:286:ALA:HB3	1.99	0.44
1:E:333:GLY:N	1:E:337:ASN:HB2	2.32	0.44
1:F:279:GLU:O	1:F:343:GLY:N	2.48	0.44
1:I:79:GLU:OE1	1:r:41:ALA:HB3	2.17	0.44
1:I:171:LEU:C	1:I:173:GLY:H	2.24	0.44
1:I:390:VAL:HG12	1:I:392:PHE:HB3	1.98	0.44
1:I:493:VAL:O	1:I:497:LEU:HD23	2.17	0.44
1:J:118:GLN:HG2	1:V:496:ARG:HE	1.83	0.44
1:J:441:GLN:HE22	1:J:444:SER:N	2.06	0.44
1:K:228:THR:HA	1:K:238:THR:HA	1.98	0.44
1:K:416:PHE:CG	1:K:417:ASP:N	2.86	0.44
1:L:113:GLN:O	1:L:117:ASN:ND2	2.49	0.44
1:P:171:LEU:HB3	1:P:174:PHE:HB2	1.98	0.44
1:Q:91:ARG:HG2	1:Q:119:ARG:NH2	2.33	0.44
1:Q:166:VAL:O	1:Q:167:LYS:HB3	2.17	0.44
1:U:113:GLN:NE2	1:U:175:ASN:HA	2.32	0.44
1:U:389:ALA:HB1	1:U:400:ASN:OD1	2.17	0.44
1:U:404:VAL:HB	1:U:407:LYS:HB2	1.98	0.44
1:W:113:GLN:NE2	1:W:175:ASN:HA	2.31	0.44
1:X:355:LEU:HB2	1:X:361:ALA:HB2	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:157:ILE:HG23	1:Y:496:ARG:NH2	2.32	0.44
1:Z:131:ASP:OD1	1:Z:132:PHE:N	2.50	0.44
1:Z:165:SER:OG	1:Z:166:VAL:O	2.32	0.44
1:Z:211:PHE:CD1	1:Z:416:PHE:HA	2.52	0.44
1:Z:457:LYS:HG3	1:Z:458:LEU:H	1.83	0.44
1:a:125:ARG:HH21	1:m:500:THR:HG22	1.83	0.44
1:a:374:THR:O	1:a:378:THR:HG23	2.18	0.44
1:b:125:ARG:HH21	1:n:500:THR:HG22	1.81	0.44
1:b:200:GLN:N	1:b:204:THR:O	2.49	0.44
1:c:88:HIS:NE2	1:o:499:SER:OG	2.51	0.44
1:e:404:VAL:HB	1:e:407:LYS:HB2	1.99	0.44
1:f:86:ASN:O	1:f:90:GLN:HG2	2.17	0.44
1:h:153:ASP:OD1	1:p:474:LYS:NZ	2.43	0.44
1:k:110:ASP:HA	1:k:177:ASN:ND2	2.32	0.44
1:k:164:ILE:HG23	1:k:169:LEU:HD21	1.99	0.44
1:l:211:PHE:HB3	1:l:415:THR:O	2.17	0.44
1:n:281:SER:HA	1:n:286:ALA:HB3	1.99	0.44
1:p:164:ILE:HD11	1:p:486:LEU:HD13	1.99	0.44
1:s:228:THR:HG22	1:s:238:THR:HG23	1.99	0.44
1:s:274:ILE:HG12	1:s:293:ALA:HA	2.00	0.44
1:t:449:LYS:O	1:t:451:LEU:HD12	2.18	0.44
1:u:500:THR:O	1:u:504:LEU:HD23	2.18	0.44
1:v:88:HIS:CE1	1:v:119:ARG:HH11	2.35	0.44
1:v:239:TYR:HB3	1:v:246:PHE:HD2	1.83	0.44
1:v:500:THR:O	1:v:504:LEU:HD23	2.18	0.44
1:A:144:PRO:HB2	1:A:158:THR:HG23	2.00	0.44
1:A:544:LEU:HD22	1:P:557:LEU:HD13	2.00	0.44
1:B:390:VAL:HG23	1:B:403:TRP:HH2	1.82	0.44
1:C:175:ASN:HB3	1:C:469:THR:HG23	1.99	0.44
1:E:315:ASP:OD1	1:E:315:ASP:N	2.50	0.44
1:G:441:GLN:HE22	1:G:444:SER:N	2.04	0.44
1:H:144:PRO:HB2	1:H:158:THR:HG23	1.99	0.44
1:H:171:LEU:HD22	1:H:174:PHE:CD1	2.52	0.44
1:H:398:ASP:OD1	1:H:399:SER:N	2.40	0.44
1:O:433:GLY:N	1:O:438:THR:O	2.40	0.44
1:Q:398:ASP:OD1	1:Q:399:SER:N	2.50	0.44
1:R:131:ASP:OD1	1:R:132:PHE:N	2.51	0.44
1:S:189:VAL:HB	1:S:432:VAL:HG21	2.00	0.44
1:S:278:TYR:CE2	1:S:292:ALA:HB3	2.52	0.44
1:T:493:VAL:HG22	1:T:497:LEU:HD23	1.99	0.44
1:V:113:GLN:HE21	1:V:176:VAL:H	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:365:ASP:HB3	1:V:367:LEU:HD22	1.98	0.44
1:W:374:THR:O	1:W:378:THR:HG23	2.17	0.44
1:X:41:ALA:HB2	1:X:48:MET:SD	2.58	0.44
1:X:316:ALA:HB2	1:b:288:PHE:CE2	2.52	0.44
1:Y:120:LEU:HD11	1:Y:174:PHE:HB3	1.99	0.44
1:Y:171:LEU:HB3	1:Y:174:PHE:HB2	2.00	0.44
1:Y:316:ALA:HB2	1:c:288:PHE:CE2	2.52	0.44
1:Z:51:ALA:O	1:Z:55:THR:HG23	2.18	0.44
1:a:54:PHE:HE1	1:a:511:LEU:HD22	1.82	0.44
1:b:81:ALA:O	1:b:85:VAL:HG23	2.18	0.44
1:b:485:LYS:HB2	1:b:485:LYS:HE3	1.77	0.44
1:c:178:GLY:HA2	1:c:468:LYS:NZ	2.32	0.44
1:e:88:HIS:CE1	1:e:119:ARG:HH11	2.35	0.44
1:f:57:ASN:O	1:f:61:LEU:HG	2.17	0.44
1:g:151:ALA:HB1	1:o:93:ARG:NH2	2.31	0.44
1:j:306:ASN:O	1:j:311:LEU:HA	2.18	0.44
1:j:370:MET:HE2	1:j:379:VAL:HB	1.99	0.44
1:l:500:THR:O	1:l:504:LEU:HD23	2.18	0.44
1:n:144:PRO:HB2	1:n:158:THR:HG23	1.99	0.44
1:o:145:LEU:HB2	1:o:159:LEU:HD12	2.00	0.44
1:o:167:LYS:O	1:o:167:LYS:HG2	2.17	0.44
1:p:405:ASP:N	1:p:405:ASP:OD1	2.50	0.44
1:p:449:LYS:O	1:p:451:LEU:HD12	2.17	0.44
1:q:41:ALA:HB2	1:q:48:MET:HG2	1.99	0.44
1:s:127:SER:CB	1:s:165:SER:HB3	2.47	0.44
1:t:211:PHE:HB3	1:t:415:THR:O	2.17	0.44
1:t:522:ASP:OD1	1:t:522:ASP:O	2.35	0.44
1:u:41:ALA:HB2	1:u:48:MET:HG2	1.99	0.44
1:u:110:ASP:OD1	1:u:177:ASN:ND2	2.50	0.44
1:v:225:ASP:HB3	1:v:391:THR:O	2.17	0.44
1:v:231:VAL:HA	1:v:386:THR:HA	2.00	0.44
1:A:99:ALA:HB2	1:A:112:VAL:HG11	1.99	0.44
1:B:51:ALA:O	1:B:55:THR:HG23	2.18	0.44
1:B:69:ASN:HA	1:B:72:ILE:HG22	1.99	0.44
1:C:99:ALA:HB1	1:C:176:VAL:HG11	1.99	0.44
1:D:171:LEU:C	1:D:173:GLY:H	2.26	0.44
1:E:171:LEU:C	1:E:173:GLY:H	2.26	0.44
1:G:326:ASP:OD1	1:G:327:ASP:N	2.50	0.44
1:I:286:ALA:HA	1:v:316:ALA:HA	2.00	0.44
1:I:496:ARG:NH2	1:n:118:GLN:OE1	2.51	0.44
1:J:86:ASN:OD1	1:J:90:GLN:NE2	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:400:ASN:OD1	1:J:401:ASN:N	2.50	0.44
1:K:91:ARG:HG2	1:K:119:ARG:HH21	1.83	0.44
1:L:98:GLN:HG2	1:L:104:TYR:HE2	1.82	0.44
1:L:496:ARG:O	1:L:500:THR:HG23	2.16	0.44
1:N:311:LEU:HD12	1:N:336:ALA:HB3	1.99	0.44
1:N:552:GLN:NE2	1:h:535:ILE:HD11	2.33	0.44
1:S:74:LEU:HD22	1:S:159:LEU:HD21	1.99	0.44
1:S:81:ALA:O	1:S:85:VAL:HG23	2.18	0.44
1:X:113:GLN:NE2	1:X:175:ASN:HA	2.33	0.44
1:a:306:ASN:C	1:a:306:ASN:ND2	2.75	0.44
1:c:280:ILE:HB	1:c:288:PHE:CD2	2.53	0.44
1:c:406:ASN:OD1	1:c:406:ASN:N	2.51	0.44
1:d:5:ILE:HG12	1:l:523:TYR:CE2	2.53	0.44
1:d:288:PHE:CE2	1:d:313:THR:HB	2.53	0.44
1:e:81:ALA:O	1:e:85:VAL:HG23	2.18	0.44
1:e:434:ASP:HB2	1:m:189:VAL:HG11	2.00	0.44
1:e:485:LYS:HB2	1:e:485:LYS:HE3	1.78	0.44
1:f:118:GLN:OE1	1:r:496:ARG:NH2	2.50	0.44
1:g:81:ALA:O	1:g:85:VAL:HG23	2.17	0.44
1:g:374:THR:O	1:g:378:THR:HG23	2.18	0.44
1:h:260:VAL:HB	1:h:263:LEU:HB3	1.99	0.44
1:i:188:THR:O	1:i:192:VAL:HG23	2.18	0.44
1:i:254:THR:O	1:i:360:VAL:HG11	2.17	0.44
1:j:54:PHE:HE1	1:j:511:LEU:HD22	1.82	0.44
1:j:175:ASN:OD1	1:j:176:VAL:N	2.51	0.44
1:k:6:ASN:HD22	1:s:36:LEU:HD23	1.82	0.44
1:m:345:THR:HG22	1:m:345:THR:O	2.18	0.44
1:t:110:ASP:OD1	1:t:177:ASN:ND2	2.51	0.44
1:v:441:GLN:HB3	1:v:448:ALA:H	1.82	0.44
1:A:354:GLU:C	1:A:361:ALA:HB2	2.43	0.44
1:B:451:LEU:HD13	1:B:462:THR:HA	2.00	0.44
1:C:32:LEU:HB3	1:l:543:VAL:HG21	1.99	0.44
1:D:148:GLN:NE2	1:D:150:GLY:O	2.51	0.44
1:F:416:PHE:CG	1:F:417:ASP:N	2.85	0.44
1:G:171:LEU:O	1:G:173:GLY:N	2.50	0.44
1:G:246:PHE:H	1:G:371:GLY:HA2	1.82	0.44
1:J:171:LEU:C	1:J:173:GLY:H	2.26	0.44
1:K:138:LEU:HD11	1:K:164:ILE:HB	1.99	0.44
1:K:532:LYS:HD3	1:h:6:ASN:O	2.18	0.44
1:M:81:ALA:O	1:M:85:VAL:HG23	2.16	0.44
1:N:433:GLY:N	1:N:438:THR:O	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:36:LEU:HD22	1:P:519:GLN:HG2	2.00	0.44
1:Q:38:ILE:HD12	1:Q:48:MET:HA	2.00	0.44
1:R:58:VAL:HG23	1:R:508:VAL:HG13	2.00	0.44
1:R:184:ASN:ND2	1:R:461:GLU:O	2.51	0.44
1:R:279:GLU:HB2	1:R:343:GLY:HA3	1.98	0.44
1:T:231:VAL:HA	1:T:386:THR:HG22	2.00	0.44
1:V:249:THR:HB	1:V:366:VAL:HG22	1.99	0.44
1:W:253:ASP:N	1:W:253:ASP:OD1	2.49	0.44
1:X:25:LEU:HB2	1:X:533:ALA:HB1	1.99	0.44
1:Y:391:THR:OG1	1:Y:400:ASN:OD1	2.26	0.44
1:Z:552:GLN:NE2	1:t:535:ILE:HD11	2.32	0.44
1:b:171:LEU:O	1:b:173:GLY:N	2.50	0.44
1:d:145:LEU:HB2	1:d:159:LEU:HD12	2.00	0.44
1:e:69:ASN:HA	1:e:72:ILE:HD13	2.00	0.44
1:h:528:SER:O	1:h:532:LYS:HG3	2.18	0.44
1:i:145:LEU:HB2	1:i:159:LEU:HD12	1.99	0.44
1:k:113:GLN:NE2	1:k:175:ASN:HA	2.33	0.44
1:k:248:TYR:HE2	1:k:250:LYS:HG3	1.82	0.44
1:k:256:VAL:HG12	1:k:259:ASP:H	1.82	0.44
1:p:281:SER:HA	1:p:286:ALA:HB3	1.99	0.44
1:q:124:ASP:O	1:q:127:SER:OG	2.27	0.44
1:q:279:GLU:OE1	1:q:288:PHE:N	2.51	0.44
1:r:155:GLU:OE1	1:r:155:GLU:N	2.50	0.44
1:r:274:ILE:HG12	1:r:293:ALA:HA	2.00	0.44
1:s:515:ARG:HA	1:s:518:ILE:HG22	2.00	0.44
1:A:91:ARG:HG2	1:A:119:ARG:HH21	1.83	0.44
1:A:110:ASP:OD1	1:A:177:ASN:ND2	2.51	0.44
1:A:227:ASN:HB3	1:A:239:TYR:HB2	2.00	0.44
1:A:290:VAL:HG11	1:A:296:ILE:HG23	1.98	0.44
1:A:306:ASN:H	1:A:314:ASN:HD22	1.65	0.44
1:A:416:PHE:CG	1:A:417:ASP:N	2.86	0.44
1:D:274:ILE:HG12	1:D:293:ALA:HA	2.00	0.44
1:E:81:ALA:O	1:E:85:VAL:HG23	2.17	0.44
1:E:113:GLN:O	1:E:117:ASN:ND2	2.51	0.44
1:E:239:TYR:CD2	1:E:248:TYR:HB2	2.53	0.44
1:F:388:ALA:HB3	1:F:403:TRP:HZ3	1.82	0.44
1:G:155:GLU:OE1	1:G:155:GLU:N	2.50	0.44
1:G:268:LYS:HE3	1:G:325:LEU:HD23	2.00	0.44
1:H:171:LEU:O	1:H:173:GLY:N	2.50	0.44
1:H:296:ILE:HG13	1:H:328:VAL:HG21	1.99	0.44
1:J:186:SER:HA	1:J:451:LEU:HG	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:88:HIS:CE1	1:L:119:ARG:HH11	2.36	0.44
1:L:105:SER:N	1:L:108:GLN:OE1	2.49	0.44
1:M:496:ARG:O	1:M:500:THR:HG23	2.17	0.44
1:O:499:SER:OG	1:t:84:GLU:OE2	2.26	0.44
1:P:108:GLN:HE21	1:T:50:ILE:HD13	1.83	0.44
1:P:179:LYS:O	1:P:179:LYS:HD2	2.17	0.44
1:R:171:LEU:O	1:R:173:GLY:N	2.49	0.44
1:S:157:ILE:HG12	1:S:496:ARG:NH2	2.32	0.44
1:T:211:PHE:CD1	1:T:416:PHE:HA	2.52	0.44
1:T:336:ALA:HB1	1:T:340:VAL:HB	2.00	0.44
1:T:368:SER:O	1:T:368:SER:OG	2.31	0.44
1:U:51:ALA:O	1:U:55:THR:HG23	2.17	0.44
1:W:58:VAL:HG23	1:W:508:VAL:HG13	2.00	0.44
1:X:165:SER:OG	1:X:166:VAL:O	2.31	0.44
1:Z:153:ASP:HB2	1:h:474:LYS:HZ2	1.83	0.44
1:a:260:VAL:HB	1:a:263:LEU:HB3	1.99	0.44
1:b:254:THR:O	1:b:360:VAL:HG11	2.18	0.44
1:d:88:HIS:NE2	1:p:499:SER:OG	2.51	0.44
1:d:406:ASN:OD1	1:d:406:ASN:N	2.50	0.44
1:f:171:LEU:O	1:f:173:GLY:N	2.51	0.44
1:g:91:ARG:HG2	1:g:119:ARG:HH21	1.83	0.44
1:g:260:VAL:HB	1:g:263:LEU:HB3	2.00	0.44
1:i:151:ALA:HB1	1:q:93:ARG:NH2	2.33	0.44
1:m:192:VAL:HB	1:m:205:TYR:CD2	2.52	0.44
1:m:355:LEU:HD12	1:m:359:ALA:O	2.18	0.44
1:o:231:VAL:HA	1:o:386:THR:HA	2.00	0.44
1:o:355:LEU:HD12	1:o:359:ALA:O	2.18	0.44
1:o:390:VAL:HG23	1:o:403:TRP:HE1	1.82	0.44
1:p:404:VAL:HG11	1:p:407:LYS:HE3	2.00	0.44
1:q:445:ALA:HB1	1:q:448:ALA:HB2	1.99	0.44
1:s:311:LEU:HD13	1:s:331:SER:HB2	2.00	0.44
1:s:464:SER:OG	1:s:465:ALA:N	2.51	0.44
1:t:171:LEU:O	1:t:173:GLY:N	2.51	0.44
1:u:464:SER:OG	1:u:465:ALA:N	2.50	0.44
1:v:464:SER:OG	1:v:465:ALA:N	2.50	0.44
1:A:399:SER:OG	1:P:396:THR:O	2.30	0.44
1:C:171:LEU:O	1:C:173:GLY:N	2.50	0.44
1:F:312:THR:HB	1:s:316:ALA:HB3	2.00	0.44
1:G:543:VAL:HG22	1:l:29:ILE:HG23	2.00	0.44
1:H:88:HIS:CE1	1:H:119:ARG:HH11	2.35	0.44
1:I:144:PRO:HB2	1:I:158:THR:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:171:LEU:O	1:J:173:GLY:N	2.51	0.44
1:L:151:ALA:HB1	1:T:93:ARG:NH2	2.33	0.44
1:M:110:ASP:HA	1:M:177:ASN:ND2	2.33	0.44
1:M:311:LEU:HD12	1:M:336:ALA:HB3	1.99	0.44
1:N:146:THR:O	1:N:157:ILE:N	2.39	0.44
1:N:441:GLN:HB3	1:N:448:ALA:H	1.82	0.44
1:O:79:GLU:OE2	1:O:487:THR:HG23	2.18	0.44
1:O:493:VAL:O	1:O:497:LEU:HD23	2.17	0.44
1:O:552:GLN:NE2	1:i:535:ILE:HD11	2.33	0.44
1:P:253:ASP:OD1	1:P:253:ASP:N	2.50	0.44
1:Q:298:ILE:HG22	1:Q:299:GLY:H	1.83	0.44
1:R:95:LEU:HD12	1:R:115:GLU:OE1	2.18	0.44
1:R:390:VAL:HG23	1:R:403:TRP:HH2	1.82	0.44
1:R:493:VAL:O	1:R:497:LEU:HD23	2.18	0.44
1:S:129:GLN:HG3	1:e:155:GLU:HG3	2.00	0.44
1:S:336:ALA:HB1	1:S:340:VAL:HB	2.00	0.44
1:S:534:GLN:O	1:S:538:GLN:HG3	2.18	0.44
1:U:376:VAL:HA	1:U:379:VAL:HG12	2.00	0.44
1:W:385:ILE:HA	1:W:405:ASP:HB2	1.99	0.44
1:Y:91:ARG:HG2	1:Y:119:ARG:NH2	2.33	0.44
1:Z:36:LEU:HD22	1:Z:519:GLN:HG2	1.98	0.44
1:Z:513:SER:O	1:Z:517:ARG:HD3	2.17	0.44
1:a:171:LEU:O	1:a:173:GLY:N	2.51	0.44
1:d:99:ALA:HB1	1:d:176:VAL:HG11	1.99	0.44
1:d:165:SER:O	1:d:169:LEU:HD23	2.17	0.44
1:d:188:THR:O	1:d:192:VAL:HG23	2.18	0.44
1:e:385:ILE:HA	1:e:405:ASP:HB2	1.99	0.44
1:f:32:LEU:HB3	1:r:543:VAL:HG21	1.98	0.44
1:f:249:THR:HG22	1:f:366:VAL:HG22	1.99	0.44
1:g:231:VAL:HG13	1:g:386:THR:HG22	2.00	0.44
1:h:254:THR:HG21	1:h:262:ALA:HB3	1.98	0.44
1:i:74:LEU:HD13	1:i:132:PHE:CD1	2.53	0.44
1:i:268:LYS:O	1:i:271:SER:OG	2.36	0.44
1:j:206:LYS:NZ	1:j:208:THR:HG22	2.33	0.44
1:m:464:SER:OG	1:m:465:ALA:N	2.51	0.44
1:n:204:THR:HA	1:n:431:VAL:HA	2.00	0.44
1:p:141:SER:O	1:p:141:SER:OG	2.31	0.44
1:r:167:LYS:HE3	1:r:167:LYS:HB3	1.86	0.44
1:t:355:LEU:N	1:t:361:ALA:HB2	2.33	0.44
1:A:286:ALA:HA	1:q:316:ALA:HA	1.99	0.43
1:B:513:SER:O	1:B:517:ARG:HD3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:91:ARG:HG2	1:C:119:ARG:HH21	1.83	0.43
1:C:286:ALA:HA	1:V:316:ALA:HA	2.00	0.43
1:F:304:PHE:O	1:F:314:ASN:N	2.51	0.43
1:F:441:GLN:HE22	1:F:444:SER:N	2.11	0.43
1:G:311:LEU:HD12	1:G:336:ALA:HB3	1.98	0.43
1:I:279:GLU:O	1:I:343:GLY:N	2.44	0.43
1:I:420:TYR:N	1:U:394:ILE:HG21	2.33	0.43
1:J:22:GLN:NE2	1:V:2:ALA:O	2.52	0.43
1:L:157:ILE:HG23	1:L:496:ARG:NH2	2.33	0.43
1:L:410:LEU:CD2	1:L:413:ILE:HB	2.47	0.43
1:M:155:GLU:OE1	1:M:155:GLU:N	2.50	0.43
1:M:197:GLY:N	1:M:205:TYR:OH	2.51	0.43
1:M:229:VAL:HG22	1:M:239:TYR:HE1	1.83	0.43
1:N:441:GLN:HB2	1:N:450:VAL:HG23	2.00	0.43
1:O:354:GLU:C	1:O:361:ALA:HB2	2.43	0.43
1:O:432:VAL:HA	1:O:439:ALA:HA	2.00	0.43
1:O:441:GLN:HE22	1:O:444:SER:N	2.05	0.43
1:R:51:ALA:O	1:R:55:THR:HG23	2.18	0.43
1:R:451:LEU:HD13	1:R:462:THR:HA	2.00	0.43
1:V:522:ASP:HB3	1:V:525:THR:HG22	2.00	0.43
1:W:401:ASN:HB3	1:W:410:LEU:HD21	2.00	0.43
1:Z:211:PHE:HD1	1:Z:416:PHE:HD1	1.66	0.43
1:a:148:GLN:NE2	1:a:150:GLY:O	2.51	0.43
1:a:434:ASP:OD1	1:a:435:ASN:N	2.51	0.43
1:b:165:SER:O	1:b:169:LEU:HD23	2.18	0.43
1:d:199:LEU:HD23	1:d:201:GLY:H	1.81	0.43
1:e:6:ASN:HB2	1:m:520:ASP:OD2	2.18	0.43
1:e:434:ASP:OD1	1:e:435:ASN:N	2.51	0.43
1:f:193:ILE:HA	1:f:197:GLY:HA3	1.99	0.43
1:h:14:ALA:HB3	1:h:544:LEU:HD13	2.00	0.43
1:i:441:GLN:HG2	1:i:445:ALA:HB3	1.99	0.43
1:l:208:THR:HB	1:l:425:ASP:OD2	2.17	0.43
1:m:228:THR:HG22	1:m:238:THR:HG23	1.99	0.43
1:m:500:THR:O	1:m:504:LEU:HD23	2.18	0.43
1:n:464:SER:OG	1:n:465:ALA:N	2.51	0.43
1:p:500:THR:O	1:p:504:LEU:HD23	2.17	0.43
1:q:141:SER:O	1:q:141:SER:OG	2.30	0.43
1:r:355:LEU:HD12	1:r:359:ALA:O	2.18	0.43
1:v:449:LYS:O	1:v:451:LEU:HD12	2.18	0.43
1:E:544:LEU:HD22	1:Q:557:LEU:HD13	1.99	0.43
1:G:186:SER:HA	1:G:451:LEU:HG	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:197:GLY:N	1:G:205:TYR:OH	2.51	0.43
1:G:333:GLY:N	1:G:337:ASN:HB2	2.31	0.43
1:G:416:PHE:CG	1:G:417:ASP:N	2.87	0.43
1:H:116:ILE:O	1:H:120:LEU:HG	2.18	0.43
1:I:88:HIS:CE1	1:I:119:ARG:HH11	2.35	0.43
1:I:108:GLN:HG2	1:M:50:ILE:CD1	2.48	0.43
1:I:522:ASP:O	1:I:526:GLU:HG2	2.18	0.43
1:J:246:PHE:H	1:J:371:GLY:HA2	1.83	0.43
1:L:131:ASP:OD1	1:L:132:PHE:N	2.50	0.43
1:M:182:THR:O	1:M:464:SER:N	2.51	0.43
1:Q:95:LEU:HD12	1:Q:115:GLU:OE1	2.18	0.43
1:Q:301:ASN:OD1	1:Q:302:ALA:N	2.49	0.43
1:Q:419:SER:OG	1:Q:421:LYS:NZ	2.51	0.43
1:T:203:GLY:O	1:T:432:VAL:N	2.44	0.43
1:T:457:LYS:HG3	1:T:458:LEU:H	1.83	0.43
1:W:336:ALA:HB1	1:W:340:VAL:HB	2.00	0.43
1:W:490:LEU:HA	1:W:493:VAL:HG12	2.01	0.43
1:X:120:LEU:HD11	1:X:174:PHE:HB3	1.99	0.43
1:Y:165:SER:OG	1:Y:166:VAL:O	2.37	0.43
1:a:81:ALA:O	1:a:85:VAL:HG23	2.17	0.43
1:g:86:ASN:O	1:g:90:GLN:HG2	2.18	0.43
1:g:398:ASP:OD1	1:g:399:SER:N	2.51	0.43
1:k:412:ASP:OD1	1:k:412:ASP:N	2.44	0.43
1:l:195:GLN:OE1	1:l:458:LEU:HG	2.17	0.43
1:l:405:ASP:OD1	1:l:405:ASP:N	2.51	0.43
1:m:171:LEU:C	1:m:173:GLY:H	2.26	0.43
1:n:167:LYS:HG2	1:n:167:LYS:O	2.19	0.43
1:o:171:LEU:O	1:o:173:GLY:N	2.50	0.43
1:p:110:ASP:OD1	1:p:177:ASN:ND2	2.52	0.43
1:q:200:GLN:NE2	1:q:201:GLY:O	2.51	0.43
1:q:464:SER:OG	1:q:465:ALA:N	2.51	0.43
1:t:32:LEU:HD23	1:t:32:LEU:HA	1.90	0.43
1:u:239:TYR:HB3	1:u:246:PHE:HD2	1.83	0.43
1:v:204:THR:HA	1:v:431:VAL:HA	2.00	0.43
1:A:192:VAL:HG12	1:A:458:LEU:HD11	2.00	0.43
1:E:441:GLN:OE1	1:E:446:ASP:N	2.51	0.43
1:F:145:LEU:HB2	1:F:159:LEU:HD12	1.99	0.43
1:J:157:ILE:HG23	1:J:496:ARG:NH2	2.32	0.43
1:J:532:LYS:HD3	1:g:6:ASN:O	2.19	0.43
1:K:307:ALA:O	1:K:311:LEU:N	2.32	0.43
1:L:416:PHE:CG	1:L:417:ASP:N	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:98:GLN:HG2	1:M:104:TYR:HE2	1.83	0.43
1:N:286:ALA:HB1	1:N:288:PHE:CE2	2.52	0.43
1:P:81:ALA:O	1:P:85:VAL:HG23	2.19	0.43
1:P:93:ARG:O	1:P:97:VAL:HG23	2.18	0.43
1:Q:93:ARG:O	1:Q:97:VAL:HG23	2.18	0.43
1:R:113:GLN:HE21	1:R:176:VAL:H	1.65	0.43
1:R:202:ASP:OD1	1:R:202:ASP:N	2.44	0.43
1:U:93:ARG:O	1:U:97:VAL:HG23	2.18	0.43
1:U:157:ILE:HG23	1:U:496:ARG:HH21	1.82	0.43
1:W:25:LEU:HB2	1:W:533:ALA:HB1	2.01	0.43
1:W:91:ARG:HG2	1:W:119:ARG:NH2	2.33	0.43
1:X:256:VAL:HG12	1:X:259:ASP:H	1.83	0.43
1:X:301:ASN:OD1	1:X:302:ALA:N	2.50	0.43
1:Y:38:ILE:HD12	1:Y:48:MET:HA	2.00	0.43
1:Y:187:ALA:HB2	1:Y:452:VAL:HG23	1.99	0.43
1:Z:41:ALA:HB2	1:Z:48:MET:SD	2.58	0.43
1:Z:42:LYS:NZ	1:h:498:GLU:OE2	2.46	0.43
1:a:57:ASN:O	1:a:61:LEU:HG	2.19	0.43
1:d:254:THR:HG21	1:d:262:ALA:HB3	1.99	0.43
1:f:451:LEU:HD13	1:f:462:THR:HG22	1.99	0.43
1:g:38:ILE:HD12	1:g:519:GLN:HA	2.00	0.43
1:g:496:ARG:O	1:g:500:THR:HG23	2.18	0.43
1:h:38:ILE:HD12	1:h:519:GLN:HA	1.99	0.43
1:h:81:ALA:O	1:h:85:VAL:HG23	2.18	0.43
1:i:214:ALA:O	1:i:410:LEU:HG	2.19	0.43
1:k:318:GLY:H	1:k:321:THR:HG21	1.83	0.43
1:p:171:LEU:C	1:p:173:GLY:H	2.26	0.43
1:q:171:LEU:C	1:q:173:GLY:H	2.26	0.43
1:q:438:THR:HG21	1:q:449:LYS:HD2	1.99	0.43
1:t:167:LYS:O	1:t:167:LYS:HG2	2.18	0.43
1:A:296:ILE:HG13	1:A:328:VAL:HG21	2.00	0.43
1:A:493:VAL:O	1:A:497:LEU:HD23	2.17	0.43
1:C:254:THR:O	1:C:360:VAL:HG11	2.18	0.43
1:D:211:PHE:HE2	1:D:426:THR:HG23	1.83	0.43
1:D:516:SER:HG	1:c:7:THR:HG1	1.33	0.43
1:G:58:VAL:O	1:G:62:THR:HG23	2.19	0.43
1:H:55:THR:HG22	1:H:515:ARG:HH11	1.82	0.43
1:H:473:LEU:HD23	1:q:152:ASN:H	1.82	0.43
1:J:370:MET:HE3	1:J:376:VAL:HA	2.01	0.43
1:J:451:LEU:HD22	1:J:462:THR:HA	2.00	0.43
1:K:279:GLU:O	1:K:343:GLY:N	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:116:ILE:O	1:L:120:LEU:HG	2.18	0.43
1:L:120:LEU:HD11	1:L:174:PHE:HB3	2.00	0.43
1:N:171:LEU:C	1:N:173:GLY:H	2.26	0.43
1:O:41:ALA:HB2	1:O:48:MET:SD	2.58	0.43
1:O:57:ASN:O	1:O:61:LEU:HG	2.18	0.43
1:O:390:VAL:HG12	1:O:392:PHE:HB3	2.01	0.43
1:Q:278:TYR:CE1	1:Q:292:ALA:HB3	2.50	0.43
1:S:457:LYS:HG3	1:S:458:LEU:H	1.83	0.43
1:U:137:VAL:HB	1:U:161:LEU:HD11	1.99	0.43
1:V:108:GLN:HE21	1:Z:50:ILE:HD13	1.84	0.43
1:V:138:LEU:HD11	1:V:164:ILE:HB	2.01	0.43
1:W:416:PHE:CE2	1:W:421:LYS:HG3	2.53	0.43
1:W:451:LEU:HD13	1:W:462:THR:HA	2.00	0.43
1:X:81:ALA:O	1:X:85:VAL:HG23	2.18	0.43
1:X:166:VAL:O	1:X:167:LYS:HB3	2.17	0.43
1:Y:166:VAL:O	1:Y:167:LYS:HB3	2.17	0.43
1:a:144:PRO:HB2	1:a:158:THR:HG23	1.99	0.43
1:b:189:VAL:O	1:b:193:ILE:HG13	2.19	0.43
1:c:260:VAL:HB	1:c:263:LEU:HB3	2.01	0.43
1:d:144:PRO:HB3	1:d:160:ASN:HA	2.00	0.43
1:e:14:ALA:HB3	1:e:544:LEU:HD13	2.01	0.43
1:f:107:GLU:H	1:f:107:GLU:CD	2.26	0.43
1:f:165:SER:O	1:f:169:LEU:HD23	2.18	0.43
1:f:304:PHE:CD2	1:f:317:SER:HB2	2.53	0.43
1:f:441:GLN:HG2	1:f:445:ALA:HB3	1.99	0.43
1:g:148:GLN:NE2	1:g:150:GLY:O	2.51	0.43
1:g:165:SER:O	1:g:169:LEU:HD23	2.18	0.43
1:g:399:SER:HB3	1:s:397:THR:HA	1.99	0.43
1:h:399:SER:HB3	1:t:397:THR:HA	2.00	0.43
1:j:189:VAL:O	1:j:193:ILE:HG13	2.18	0.43
1:k:275:SER:HB3	1:k:278:TYR:OH	2.19	0.43
1:l:88:HIS:CE1	1:l:119:ARG:HH11	2.35	0.43
1:n:355:LEU:N	1:n:361:ALA:HB2	2.33	0.43
1:o:274:ILE:HG12	1:o:293:ALA:HA	2.00	0.43
1:r:88:HIS:CE1	1:r:119:ARG:HH11	2.37	0.43
1:s:164:ILE:HD11	1:s:486:LEU:HD13	1.99	0.43
1:A:394:ILE:HG22	1:A:396:THR:H	1.83	0.43
1:B:490:LEU:HA	1:B:493:VAL:HG12	2.00	0.43
1:C:503:ASN:O	1:C:507:VAL:HG23	2.19	0.43
1:D:464:SER:OG	1:D:465:ALA:N	2.51	0.43
1:E:108:GLN:HG2	1:I:50:ILE:CD1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:311:LEU:HD12	1:E:336:ALA:HB3	2.00	0.43
1:F:64:ALA:HB1	1:F:149:VAL:HA	1.99	0.43
1:G:350:SER:N	1:G:364:ALA:O	2.51	0.43
1:I:5:ILE:HD12	1:Q:523:TYR:CE1	2.54	0.43
1:J:497:LEU:O	1:J:500:THR:OG1	2.28	0.43
1:J:536:LEU:HD22	1:g:5:ILE:HD12	2.00	0.43
1:K:50:ILE:HD12	1:p:133:ASN:ND2	2.33	0.43
1:M:192:VAL:HB	1:M:205:TYR:CD2	2.54	0.43
1:Q:416:PHE:CD2	1:Q:421:LYS:HG3	2.53	0.43
1:S:513:SER:O	1:S:517:ARG:HD3	2.19	0.43
1:T:81:ALA:O	1:T:85:VAL:HG23	2.18	0.43
1:W:522:ASP:HB3	1:W:525:THR:HG22	2.00	0.43
1:X:496:ARG:O	1:X:500:THR:HG23	2.18	0.43
1:Y:304:PHE:N	1:Y:314:ASN:O	2.50	0.43
1:a:332:VAL:HG13	1:a:340:VAL:HG12	1.98	0.43
1:b:88:HIS:NE2	1:n:499:SER:OG	2.51	0.43
1:d:256:VAL:HG12	1:d:259:ASP:H	1.83	0.43
1:f:374:THR:O	1:f:378:THR:HG23	2.18	0.43
1:h:98:GLN:HG2	1:h:104:TYR:CE2	2.54	0.43
1:j:74:LEU:HD11	1:j:137:VAL:HG21	2.00	0.43
1:j:434:ASP:OD1	1:j:435:ASN:N	2.51	0.43
1:j:485:LYS:HB2	1:j:485:LYS:HE3	1.77	0.43
1:m:324:THR:HB	1:m:327:ASP:HB2	2.01	0.43
1:n:155:GLU:N	1:n:155:GLU:OE1	2.50	0.43
1:o:411:THR:O	1:o:414:GLN:NE2	2.52	0.43
1:r:410:LEU:HD23	1:r:413:ILE:HB	2.00	0.43
1:r:500:THR:O	1:r:504:LEU:HD23	2.19	0.43
1:v:313:THR:O	1:v:314:ASN:ND2	2.51	0.43
1:A:35:GLY:C	1:m:6:ASN:HD21	2.27	0.43
1:A:182:THR:O	1:A:464:SER:N	2.52	0.43
1:A:316:ALA:HB3	1:q:312:THR:HB	2.00	0.43
1:C:312:THR:HB	1:V:316:ALA:HB3	2.01	0.43
1:E:125:ARG:HE	1:E:125:ARG:HB3	1.70	0.43
1:E:211:PHE:CD1	1:E:416:PHE:HA	2.54	0.43
1:F:493:VAL:HG22	1:F:497:LEU:HD23	1.99	0.43
1:H:186:SER:HA	1:H:451:LEU:HG	1.99	0.43
1:J:158:THR:HG22	1:J:160:ASN:OD1	2.17	0.43
1:K:370:MET:HE1	1:K:379:VAL:HG21	1.99	0.43
1:K:441:GLN:HE22	1:K:445:ALA:C	2.26	0.43
1:L:441:GLN:HE22	1:L:444:SER:N	2.06	0.43
1:M:370:MET:HE3	1:M:376:VAL:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:399:SER:OG	1:Y:396:THR:O	2.28	0.43
1:N:493:VAL:O	1:N:497:LEU:HD23	2.19	0.43
1:P:557:LEU:HD23	1:P:557:LEU:H	1.83	0.43
1:Q:25:LEU:HB2	1:Q:533:ALA:HB1	2.00	0.43
1:Q:166:VAL:C	1:Q:168:THR:H	2.25	0.43
1:R:166:VAL:O	1:R:167:LYS:HB3	2.17	0.43
1:R:534:GLN:O	1:R:538:GLN:HG3	2.19	0.43
1:T:390:VAL:HG23	1:T:403:TRP:HH2	1.82	0.43
1:U:301:ASN:OD1	1:U:302:ALA:N	2.50	0.43
1:W:164:ILE:CG1	1:W:486:LEU:HD13	2.49	0.43
1:X:287:SER:HB2	1:b:301:ASN:HD21	1.83	0.43
1:Z:394:ILE:O	1:Z:398:ASP:N	2.51	0.43
1:a:254:THR:HG21	1:a:262:ALA:HB3	1.99	0.43
1:a:317:SER:OG	1:a:321:THR:OG1	2.24	0.43
1:a:365:ASP:HB3	1:a:367:LEU:HD22	2.01	0.43
1:c:434:ASP:OD1	1:c:435:ASN:N	2.51	0.43
1:d:275:SER:HB3	1:d:278:TYR:OH	2.18	0.43
1:g:133:ASN:ND2	1:o:103:SER:O	2.51	0.43
1:j:187:ALA:HB3	1:j:450:VAL:HG13	2.01	0.43
1:j:451:LEU:HD13	1:j:462:THR:HG22	2.01	0.43
1:k:406:ASN:N	1:k:406:ASN:OD1	2.51	0.43
1:l:227:ASN:HB3	1:l:239:TYR:HB2	1.99	0.43
1:n:407:LYS:HE2	1:n:409:GLU:HB3	1.99	0.43
1:s:88:HIS:CE1	1:s:119:ARG:HH11	2.36	0.43
1:s:101:ASN:OD1	1:s:102:GLY:N	2.52	0.43
1:t:376:VAL:O	1:t:380:THR:HG22	2.19	0.43
1:t:438:THR:HG21	1:t:449:LYS:HD2	2.00	0.43
1:C:474:LYS:HZ3	1:R:153:ASP:HB2	1.84	0.43
1:D:404:VAL:HG11	1:D:407:LYS:NZ	2.34	0.43
1:E:171:LEU:O	1:E:173:GLY:N	2.50	0.43
1:E:413:ILE:HD12	1:Q:396:THR:HG22	2.01	0.43
1:F:86:ASN:HD21	1:o:52:ASN:ND2	2.16	0.43
1:F:171:LEU:HD22	1:F:174:PHE:CD1	2.53	0.43
1:H:147:LEU:HD23	1:P:101:ASN:HD21	1.83	0.43
1:I:5:ILE:HD12	1:Q:523:TYR:CZ	2.54	0.43
1:I:54:PHE:CE1	1:I:511:LEU:HD22	2.54	0.43
1:I:116:ILE:O	1:I:120:LEU:HG	2.19	0.43
1:I:355:LEU:HD12	1:I:359:ALA:O	2.18	0.43
1:L:38:ILE:HD12	1:L:48:MET:HA	2.01	0.43
1:M:35:GLY:O	1:v:6:ASN:ND2	2.52	0.43
1:M:57:ASN:O	1:M:61:LEU:HG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:544:LEU:HD22	1:Y:557:LEU:HD13	2.00	0.43
1:N:355:LEU:HD12	1:N:359:ALA:O	2.19	0.43
1:R:214:ALA:O	1:R:410:LEU:HG	2.19	0.43
1:W:36:LEU:HD22	1:W:519:GLN:HG2	2.01	0.43
1:X:131:ASP:OD1	1:X:132:PHE:N	2.52	0.43
1:Y:37:ARG:N	1:Y:519:GLN:O	2.51	0.43
1:Y:166:VAL:C	1:Y:168:THR:H	2.25	0.43
1:Z:81:ALA:O	1:Z:85:VAL:HG23	2.18	0.43
1:d:302:ALA:O	1:d:315:ASP:HB3	2.18	0.43
1:e:74:LEU:HD11	1:e:137:VAL:HG21	2.00	0.43
1:e:406:ASN:OD1	1:e:406:ASN:N	2.52	0.43
1:f:549:GLN:OE1	1:f:552:GLN:HG3	2.18	0.43
1:h:406:ASN:N	1:h:406:ASN:OD1	2.52	0.43
1:k:145:LEU:HB2	1:k:159:LEU:HD12	2.01	0.43
1:l:145:LEU:HB2	1:l:159:LEU:HD23	2.00	0.43
1:l:159:LEU:HD13	1:l:493:VAL:HG11	2.00	0.43
1:m:376:VAL:O	1:m:380:THR:HG22	2.19	0.43
1:o:101:ASN:OD1	1:o:102:GLY:N	2.52	0.43
1:p:192:VAL:O	1:p:205:TYR:OH	2.26	0.43
1:r:306:ASN:ND2	1:r:314:ASN:HB2	2.33	0.43
1:s:192:VAL:HB	1:s:205:TYR:CD2	2.53	0.43
1:s:211:PHE:HB3	1:s:415:THR:O	2.18	0.43
1:s:449:LYS:O	1:s:451:LEU:HD12	2.18	0.43
1:u:208:THR:HB	1:u:425:ASP:OD2	2.18	0.43
1:u:225:ASP:HB3	1:u:391:THR:O	2.19	0.43
1:v:394:ILE:O	1:v:398:ASP:HB2	2.19	0.43
1:A:524:ALA:HB1	1:a:15:GLN:HG2	2.00	0.43
1:D:95:LEU:HD12	1:D:112:VAL:HG13	2.01	0.43
1:D:138:LEU:HG	1:D:164:ILE:HB	2.00	0.43
1:E:64:ALA:CB	1:E:150:GLY:H	2.32	0.43
1:E:473:LEU:HD23	1:n:152:ASN:H	1.84	0.43
1:F:116:ILE:O	1:F:120:LEU:HG	2.18	0.43
1:F:144:PRO:HB3	1:F:160:ASN:H	1.83	0.43
1:F:532:LYS:HD3	1:c:6:ASN:O	2.19	0.43
1:G:499:SER:OG	1:l:88:HIS:NE2	2.52	0.43
1:I:157:ILE:HG23	1:I:496:ARG:NH2	2.34	0.43
1:J:91:ARG:HG2	1:J:119:ARG:HH21	1.84	0.43
1:K:355:LEU:HD12	1:K:359:ALA:O	2.19	0.43
1:N:144:PRO:HB3	1:N:160:ASN:H	1.84	0.43
1:O:326:ASP:OD1	1:O:327:ASP:N	2.51	0.43
1:P:38:ILE:HD12	1:P:48:MET:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:513:SER:O	1:P:517:ARG:HD3	2.19	0.43
1:S:365:ASP:HB3	1:S:367:LEU:HD22	2.00	0.43
1:T:113:GLN:HE21	1:T:176:VAL:H	1.65	0.43
1:V:226:GLY:HA2	1:V:240:ASP:HA	2.01	0.43
1:V:552:GLN:OE1	1:V:552:GLN:N	2.52	0.43
1:X:278:TYR:CD1	1:X:344:GLY:HA3	2.50	0.43
1:X:416:PHE:CD2	1:X:421:LYS:HG3	2.53	0.43
1:Y:81:ALA:O	1:Y:85:VAL:HG23	2.19	0.43
1:Y:126:ILE:HG12	1:k:503:ASN:ND2	2.34	0.43
1:Z:113:GLN:NE2	1:Z:175:ASN:HA	2.34	0.43
1:b:256:VAL:HG12	1:b:259:ASP:H	1.84	0.43
1:c:148:GLN:HE21	1:c:153:ASP:HA	1.84	0.43
1:c:280:ILE:H	1:c:288:PHE:HB2	1.83	0.43
1:d:81:ALA:O	1:d:85:VAL:HG23	2.18	0.43
1:d:138:LEU:HD12	1:d:138:LEU:HA	1.83	0.43
1:e:189:VAL:O	1:e:193:ILE:HG13	2.18	0.43
1:e:374:THR:O	1:e:378:THR:HG23	2.19	0.43
1:f:211:PHE:HE2	1:f:426:THR:H	1.66	0.43
1:f:406:ASN:OD1	1:f:406:ASN:N	2.51	0.43
1:g:472:PRO:O	1:g:475:THR:OG1	2.32	0.43
1:h:86:ASN:O	1:h:90:GLN:HG2	2.19	0.43
1:h:99:ALA:HB1	1:h:176:VAL:HG11	2.01	0.43
1:h:148:GLN:NE2	1:h:150:GLY:O	2.52	0.43
1:h:268:LYS:O	1:h:271:SER:OG	2.35	0.43
1:k:187:ALA:HB3	1:k:450:VAL:HG13	2.01	0.43
1:l:40:SER:O	1:l:42:LYS:N	2.51	0.43
1:m:189:VAL:HA	1:m:192:VAL:HG22	2.01	0.43
1:n:223:LEU:HD13	1:n:392:PHE:HB3	2.01	0.43
1:n:404:VAL:HG11	1:n:407:LYS:NZ	2.34	0.43
1:n:471:ASP:HB3	1:n:474:LYS:HB2	2.01	0.43
1:p:388:ALA:C	1:p:403:TRP:HD1	2.27	0.43
1:s:500:THR:O	1:s:504:LEU:HD23	2.19	0.43
1:t:288:PHE:HB3	1:t:290:VAL:HG13	2.01	0.43
1:t:345:THR:HB	1:t:347:TYR:CE2	2.53	0.43
1:u:216:ALA:HA	1:u:403:TRP:HH2	1.83	0.43
1:u:376:VAL:O	1:u:380:THR:HG22	2.18	0.43
1:A:239:TYR:CD2	1:A:248:TYR:HB2	2.54	0.43
1:B:55:THR:HA	1:B:58:VAL:HG12	2.01	0.43
1:C:88:HIS:NE2	1:l:499:SER:OG	2.52	0.43
1:C:278:TYR:CD1	1:C:344:GLY:HA3	2.53	0.43
1:C:314:ASN:HB3	1:V:314:ASN:ND2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:208:THR:HB	1:D:425:ASP:OD2	2.19	0.43
1:E:98:GLN:HG2	1:E:104:TYR:HE2	1.83	0.43
1:E:116:ILE:O	1:E:120:LEU:HG	2.19	0.43
1:E:306:ASN:H	1:E:314:ASN:HD22	1.65	0.43
1:F:131:ASP:OD1	1:F:132:PHE:N	2.51	0.43
1:G:79:GLU:OE2	1:p:41:ALA:HB3	2.19	0.43
1:G:532:LYS:HD3	1:d:6:ASN:O	2.19	0.43
1:H:188:THR:N	1:H:191:ASP:OD2	2.43	0.43
1:I:188:THR:N	1:I:191:ASP:OD2	2.40	0.43
1:K:274:ILE:HG23	1:K:293:ALA:HA	2.01	0.43
1:L:57:ASN:O	1:L:61:LEU:HG	2.19	0.43
1:L:246:PHE:H	1:L:371:GLY:HA2	1.83	0.43
1:O:286:ALA:HB1	1:O:288:PHE:CE2	2.54	0.43
1:P:457:LYS:HG3	1:P:458:LEU:H	1.83	0.43
1:Q:558:LEU:HD23	1:Q:558:LEU:HA	1.91	0.43
1:R:474:LYS:HD3	1:R:474:LYS:N	2.34	0.43
1:T:41:ALA:HB2	1:T:48:MET:SD	2.59	0.43
1:T:165:SER:OG	1:T:166:VAL:O	2.35	0.43
1:U:81:ALA:O	1:U:85:VAL:HG23	2.19	0.43
1:W:32:LEU:O	1:W:523:TYR:OH	2.26	0.43
1:W:391:THR:HG23	1:W:398:ASP:OD1	2.19	0.43
1:X:336:ALA:HB1	1:X:340:VAL:HB	2.00	0.43
1:X:493:VAL:O	1:X:497:LEU:HD23	2.19	0.43
1:Y:58:VAL:HG23	1:Y:508:VAL:HG13	2.01	0.43
1:Y:131:ASP:OD1	1:Y:132:PHE:N	2.52	0.43
1:b:99:ALA:HB1	1:b:176:VAL:HG11	2.01	0.43
1:b:199:LEU:HD23	1:b:200:GLN:N	2.34	0.43
1:d:280:ILE:HB	1:d:288:PHE:HD2	1.83	0.43
1:d:528:SER:O	1:d:532:LYS:HG3	2.19	0.43
1:e:148:GLN:NE2	1:e:150:GLY:O	2.52	0.43
1:f:254:THR:HG21	1:f:262:ALA:HB3	2.00	0.43
1:f:256:VAL:HG12	1:f:259:ASP:H	1.84	0.43
1:f:318:GLY:H	1:f:321:THR:HG21	1.84	0.43
1:g:25:LEU:HB2	1:g:533:ALA:HB1	2.01	0.43
1:h:394:ILE:HD11	1:t:419:SER:HB2	2.01	0.43
1:i:438:THR:HA	1:i:449:LYS:NZ	2.34	0.43
1:n:279:GLU:O	1:n:343:GLY:N	2.39	0.43
1:n:405:ASP:OD1	1:n:405:ASP:N	2.52	0.43
1:p:355:LEU:HD12	1:p:359:ALA:O	2.19	0.43
1:q:311:LEU:HB3	1:q:331:SER:HB2	2.01	0.43
1:r:394:ILE:O	1:r:398:ASP:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:464:SER:OG	1:r:465:ALA:N	2.51	0.43
1:s:410:LEU:HD12	1:s:411:THR:N	2.34	0.43
1:t:207:ALA:HB3	1:t:428:GLU:HG3	2.00	0.43
1:v:174:PHE:HA	1:v:469:THR:HG21	2.01	0.43
1:v:522:ASP:OD1	1:v:522:ASP:O	2.37	0.43
1:B:249:THR:HB	1:B:366:VAL:HG22	1.99	0.43
1:C:144:PRO:HB2	1:C:158:THR:HG23	2.01	0.43
1:C:451:LEU:HD13	1:C:462:THR:HG22	2.00	0.43
1:D:101:ASN:OD1	1:D:102:GLY:N	2.52	0.43
1:D:110:ASP:OD1	1:D:177:ASN:ND2	2.52	0.43
1:E:208:THR:HG22	1:E:427:GLY:HA2	2.01	0.43
1:F:92:ILE:HD11	1:F:119:ARG:HB3	2.01	0.43
1:F:355:LEU:HD12	1:F:359:ALA:O	2.19	0.43
1:F:516:SER:HA	1:F:520:ASP:OD2	2.19	0.43
1:G:188:THR:N	1:G:191:ASP:OD2	2.43	0.43
1:H:15:GLN:HG2	1:b:524:ALA:HB1	2.01	0.43
1:I:81:ALA:O	1:I:85:VAL:HG23	2.18	0.43
1:J:57:ASN:O	1:J:61:LEU:HG	2.19	0.43
1:J:200:GLN:N	1:J:204:THR:O	2.43	0.43
1:K:157:ILE:HG23	1:K:496:ARG:NH2	2.33	0.43
1:L:186:SER:HA	1:L:451:LEU:HG	2.00	0.43
1:M:416:PHE:CD2	1:M:417:ASP:N	2.87	0.43
1:O:350:SER:N	1:O:364:ALA:O	2.52	0.43
1:Q:493:VAL:HG22	1:Q:497:LEU:HD23	2.01	0.43
1:S:290:VAL:HG12	1:S:298:ILE:HG12	2.01	0.43
1:T:374:THR:O	1:T:378:THR:HG23	2.18	0.43
1:U:126:ILE:HG12	1:g:503:ASN:ND2	2.34	0.43
1:V:3:ALA:HB1	1:V:554:VAL:HG22	2.01	0.43
1:W:126:ILE:HG12	1:i:503:ASN:ND2	2.34	0.43
1:W:301:ASN:OD1	1:W:302:ALA:N	2.48	0.43
1:a:275:SER:HB3	1:a:278:TYR:OH	2.18	0.43
1:b:148:GLN:NE2	1:b:150:GLY:O	2.51	0.43
1:b:546:GLN:O	1:b:550:VAL:HG23	2.19	0.43
1:d:107:GLU:H	1:d:107:GLU:CD	2.27	0.43
1:d:374:THR:O	1:d:378:THR:HG23	2.19	0.43
1:e:171:LEU:O	1:e:173:GLY:N	2.51	0.43
1:e:178:GLY:HA2	1:e:468:LYS:HZ2	1.84	0.43
1:f:355:LEU:HG	1:f:357:TYR:H	1.83	0.43
1:g:57:ASN:O	1:g:61:LEU:HG	2.18	0.43
1:g:406:ASN:N	1:g:406:ASN:OD1	2.52	0.43
1:h:37:ARG:NH1	1:h:44:ASP:OD2	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:86:ASN:O	1:j:90:GLN:HG2	2.19	0.43
1:l:25:LEU:HB2	1:l:533:ALA:HB1	2.01	0.43
1:q:311:LEU:HD12	1:q:336:ALA:HB3	2.00	0.43
1:v:288:PHE:HB3	1:v:290:VAL:HG13	2.00	0.43
1:A:186:SER:HA	1:A:451:LEU:HG	2.00	0.42
1:B:166:VAL:O	1:B:167:LYS:HB3	2.18	0.42
1:D:40:SER:O	1:D:42:LYS:N	2.51	0.42
1:D:167:LYS:HE3	1:D:167:LYS:HB3	1.86	0.42
1:D:355:LEU:N	1:D:361:ALA:HB2	2.34	0.42
1:E:157:ILE:HG21	1:E:497:LEU:HD21	2.00	0.42
1:F:473:LEU:HD13	1:o:153:ASP:CG	2.44	0.42
1:G:441:GLN:HB3	1:G:448:ALA:H	1.83	0.42
1:H:333:GLY:N	1:H:337:ASN:HB2	2.33	0.42
1:I:410:LEU:CD2	1:I:413:ILE:HB	2.48	0.42
1:I:473:LEU:HD23	1:r:152:ASN:H	1.83	0.42
1:K:88:HIS:CE1	1:K:119:ARG:HH11	2.36	0.42
1:K:354:GLU:C	1:K:361:ALA:HB2	2.43	0.42
1:L:490:LEU:HA	1:L:493:VAL:HG12	2.01	0.42
1:O:200:GLN:OE1	1:O:206:LYS:NZ	2.40	0.42
1:Q:524:ALA:HB1	1:n:15:GLN:HG2	2.01	0.42
1:T:51:ALA:O	1:T:55:THR:HG23	2.18	0.42
1:T:66:ARG:HH22	1:f:37:ARG:HH21	1.67	0.42
1:W:81:ALA:O	1:W:85:VAL:HG23	2.18	0.42
1:W:164:ILE:HG23	1:W:169:LEU:HD21	2.00	0.42
1:Z:96:THR:HG21	1:Z:472:PRO:HB2	2.01	0.42
1:Z:496:ARG:O	1:Z:500:THR:HG23	2.19	0.42
1:b:399:SER:HB3	1:n:397:THR:HA	2.01	0.42
1:e:25:LEU:HB2	1:e:533:ALA:HB1	2.01	0.42
1:e:332:VAL:HG13	1:e:340:VAL:HG12	2.00	0.42
1:f:167:LYS:HA	1:f:172:ASP:HB2	2.02	0.42
1:h:374:THR:O	1:h:378:THR:HG23	2.19	0.42
1:i:355:LEU:HG	1:i:357:TYR:H	1.84	0.42
1:m:468:LYS:HE3	1:m:468:LYS:HB3	1.82	0.42
1:m:515:ARG:HA	1:m:518:ILE:HG22	2.01	0.42
1:o:351:ALA:HA	1:o:363:THR:HA	2.01	0.42
1:p:317:SER:HA	1:p:321:THR:HG21	2.01	0.42
1:p:476:LEU:HD23	1:p:476:LEU:HA	1.87	0.42
1:r:192:VAL:HB	1:r:205:TYR:CD2	2.54	0.42
1:r:199:LEU:HD22	1:r:205:TYR:CD1	2.53	0.42
1:s:355:LEU:HD12	1:s:359:ALA:O	2.18	0.42
1:s:380:THR:HG21	1:s:403:TRP:HZ3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:VAL:O	1:A:17:ASN:ND2	2.33	0.42
1:B:277:SER:OG	1:B:289:ASP:OD1	2.30	0.42
1:B:303:ALA:HA	1:B:315:ASP:HA	2.00	0.42
1:C:275:SER:HB3	1:C:278:TYR:OH	2.19	0.42
1:D:332:VAL:HG11	1:D:342:ILE:HD11	2.01	0.42
1:E:35:GLY:O	1:n:6:ASN:ND2	2.52	0.42
1:E:229:VAL:HG22	1:E:239:TYR:HE1	1.83	0.42
1:E:305:LEU:HA	1:E:314:ASN:H	1.83	0.42
1:F:532:LYS:O	1:F:536:LEU:HD23	2.19	0.42
1:G:31:ARG:HB3	1:G:526:GLU:OE2	2.20	0.42
1:G:131:ASP:OD1	1:G:132:PHE:N	2.52	0.42
1:G:138:LEU:HD12	1:G:138:LEU:HA	1.85	0.42
1:G:162:SER:OG	1:G:163:GLU:OE2	2.35	0.42
1:G:552:GLN:NE2	1:a:535:ILE:HD11	2.34	0.42
1:H:493:VAL:HG22	1:H:497:LEU:HD23	2.01	0.42
1:H:552:GLN:NE2	1:b:535:ILE:HD11	2.34	0.42
1:K:534:GLN:O	1:K:538:GLN:HG3	2.19	0.42
1:L:15:GLN:HG2	1:f:524:ALA:HB1	2.01	0.42
1:L:110:ASP:OD1	1:L:177:ASN:ND2	2.50	0.42
1:L:332:VAL:O	1:L:332:VAL:HG13	2.20	0.42
1:M:7:THR:OG1	1:U:516:SER:OG	2.11	0.42
1:O:42:LYS:O	1:W:495:ASN:ND2	2.42	0.42
1:U:231:VAL:HG22	1:U:386:THR:HG22	1.99	0.42
1:V:253:ASP:O	1:V:266:LYS:NZ	2.51	0.42
1:V:513:SER:O	1:V:517:ARG:HD3	2.19	0.42
1:W:6:ASN:O	1:q:532:LYS:NZ	2.43	0.42
1:Y:25:LEU:HB2	1:Y:533:ALA:HB1	2.01	0.42
1:Z:253:ASP:O	1:Z:266:LYS:NZ	2.45	0.42
1:c:107:GLU:OE1	1:c:107:GLU:N	2.42	0.42
1:c:159:LEU:HD13	1:c:493:VAL:HG11	2.01	0.42
1:c:496:ARG:O	1:c:500:THR:HG23	2.20	0.42
1:d:189:VAL:O	1:d:193:ILE:HG13	2.19	0.42
1:f:58:VAL:O	1:f:62:THR:HG23	2.19	0.42
1:f:151:ALA:HB1	1:n:93:ARG:NH2	2.32	0.42
1:g:434:ASP:OD1	1:g:435:ASN:N	2.52	0.42
1:g:549:GLN:OE1	1:g:552:GLN:HG3	2.19	0.42
1:h:88:HIS:ND1	1:h:119:ARG:HD2	2.33	0.42
1:h:188:THR:O	1:h:192:VAL:HG23	2.20	0.42
1:j:188:THR:O	1:j:192:VAL:HG23	2.18	0.42
1:l:68:ALA:HB3	1:l:501:ILE:HD11	2.01	0.42
1:m:193:ILE:HG22	1:m:199:LEU:HD21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:496:ARG:O	1:n:500:THR:HG23	2.19	0.42
1:p:192:VAL:HB	1:p:205:TYR:CD2	2.54	0.42
1:r:225:ASP:HB3	1:r:391:THR:O	2.19	0.42
1:r:522:ASP:O	1:r:522:ASP:OD2	2.37	0.42
1:s:207:ALA:HB3	1:s:428:GLU:HG3	2.01	0.42
1:t:91:ARG:O	1:t:95:LEU:HD23	2.20	0.42
1:t:500:THR:O	1:t:504:LEU:HD23	2.19	0.42
1:A:332:VAL:O	1:A:332:VAL:HG13	2.19	0.42
1:D:435:ASN:CG	1:c:188:THR:HB	2.45	0.42
1:E:199:LEU:HB2	1:E:205:TYR:HD1	1.84	0.42
1:E:390:VAL:CG2	1:E:403:TRP:HH2	2.31	0.42
1:F:22:GLN:NE2	1:R:2:ALA:O	2.51	0.42
1:F:225:ASP:HB3	1:F:391:THR:O	2.18	0.42
1:G:50:ILE:HD12	1:l:133:ASN:ND2	2.32	0.42
1:G:92:ILE:HD11	1:G:119:ARG:HB3	2.01	0.42
1:H:312:THR:HB	1:u:316:ALA:HB3	2.01	0.42
1:I:432:VAL:HA	1:I:439:ALA:HA	2.01	0.42
1:J:46:ALA:O	1:J:50:ILE:HG12	2.20	0.42
1:J:155:GLU:OE1	1:J:155:GLU:N	2.52	0.42
1:J:171:LEU:HD21	1:J:476:LEU:HD23	2.01	0.42
1:J:199:LEU:HB2	1:J:205:TYR:HD1	1.84	0.42
1:J:311:LEU:HD12	1:J:336:ALA:HB3	2.01	0.42
1:K:186:SER:HA	1:K:451:LEU:HG	2.00	0.42
1:K:432:VAL:HA	1:K:439:ALA:HA	2.01	0.42
1:L:281:SER:O	1:L:340:VAL:HB	2.18	0.42
1:L:496:ARG:CG	1:q:122:ASP:HB2	2.50	0.42
1:O:416:PHE:CG	1:O:417:ASP:N	2.88	0.42
1:P:490:LEU:HA	1:P:493:VAL:HG12	2.01	0.42
1:Q:461:GLU:CD	1:Q:463:THR:H	2.27	0.42
1:U:61:LEU:HG	1:U:504:LEU:HD12	2.02	0.42
1:V:86:ASN:O	1:V:90:GLN:HG2	2.20	0.42
1:X:513:SER:O	1:X:517:ARG:HD3	2.19	0.42
1:Y:513:SER:O	1:Y:517:ARG:HD3	2.19	0.42
1:Z:113:GLN:HE21	1:Z:176:VAL:H	1.67	0.42
1:Z:334:THR:HG23	1:Z:355:LEU:HD23	2.00	0.42
1:a:145:LEU:HB2	1:a:159:LEU:HD12	2.01	0.42
1:b:25:LEU:HB2	1:b:533:ALA:HB1	2.01	0.42
1:b:374:THR:O	1:b:378:THR:HG23	2.18	0.42
1:c:125:ARG:HH21	1:o:500:THR:HG22	1.84	0.42
1:c:164:ILE:HD11	1:c:486:LEU:HD13	2.01	0.42
1:c:473:LEU:HD23	1:c:476:LEU:HD12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:317:SER:OG	1:d:321:THR:OG1	2.24	0.42
1:f:254:THR:O	1:f:360:VAL:HG11	2.19	0.42
1:h:355:LEU:HG	1:h:357:TYR:H	1.85	0.42
1:j:260:VAL:HB	1:j:263:LEU:HB3	2.01	0.42
1:j:406:ASN:OD1	1:j:406:ASN:N	2.52	0.42
1:k:188:THR:HB	1:s:435:ASN:CG	2.44	0.42
1:l:110:ASP:OD1	1:l:177:ASN:ND2	2.52	0.42
1:n:355:LEU:HD12	1:n:359:ALA:O	2.19	0.42
1:o:493:VAL:O	1:o:497:LEU:HD23	2.19	0.42
1:p:410:LEU:HG	1:p:413:ILE:H	1.85	0.42
1:u:127:SER:CB	1:u:165:SER:HB3	2.50	0.42
1:v:416:PHE:CG	1:v:417:ASP:N	2.88	0.42
1:C:406:ASN:C	1:C:407:LYS:HD2	2.44	0.42
1:E:522:ASP:O	1:E:526:GLU:HG2	2.19	0.42
1:F:286:ALA:HA	1:s:316:ALA:HA	2.01	0.42
1:G:260:VAL:HG21	1:G:335:GLU:HG3	2.00	0.42
1:G:390:VAL:HG12	1:G:392:PHE:HB3	2.00	0.42
1:G:524:ALA:HB1	1:d:15:GLN:HG2	2.00	0.42
1:H:177:ASN:HD21	1:H:179:LYS:HZ2	1.68	0.42
1:H:410:LEU:CD2	1:H:413:ILE:HB	2.49	0.42
1:I:521:ALA:HB1	1:I:526:GLU:HG3	2.01	0.42
1:J:315:ASP:N	1:J:315:ASP:OD1	2.51	0.42
1:J:552:GLN:NE2	1:d:535:ILE:HD11	2.35	0.42
1:L:155:GLU:OE1	1:L:155:GLU:N	2.52	0.42
1:M:92:ILE:HD11	1:M:119:ARG:HB3	2.02	0.42
1:M:493:VAL:O	1:M:497:LEU:HD23	2.19	0.42
1:M:536:LEU:HD11	1:j:6:ASN:HD21	1.83	0.42
1:N:192:VAL:HB	1:N:205:TYR:CD2	2.54	0.42
1:N:260:VAL:HG21	1:N:335:GLU:HG3	2.01	0.42
1:Q:129:GLN:HG3	1:c:155:GLU:HG3	2.02	0.42
1:R:211:PHE:CD1	1:R:416:PHE:HA	2.55	0.42
1:R:310:GLU:O	1:R:312:THR:HG23	2.19	0.42
1:S:401:ASN:HB3	1:S:410:LEU:HD21	2.02	0.42
1:V:81:ALA:O	1:V:85:VAL:HG23	2.19	0.42
1:V:129:GLN:HG3	1:h:155:GLU:HG3	2.01	0.42
1:V:189:VAL:HB	1:V:432:VAL:HG11	2.00	0.42
1:V:218:THR:O	1:V:420:TYR:OH	2.37	0.42
1:V:336:ALA:HB1	1:V:340:VAL:HB	2.01	0.42
1:W:558:LEU:HD23	1:W:558:LEU:HA	1.93	0.42
1:X:84:GLU:O	1:X:87:THR:OG1	2.29	0.42
1:X:211:PHE:CD1	1:X:416:PHE:HA	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:336:ALA:HB1	1:Y:340:VAL:HB	2.00	0.42
1:Y:383:SER:OG	1:Y:405:ASP:O	2.37	0.42
1:Z:228:THR:HA	1:Z:238:THR:HA	2.01	0.42
1:Z:383:SER:OG	1:Z:405:ASP:O	2.38	0.42
1:a:84:GLU:OE2	1:m:499:SER:OG	2.31	0.42
1:a:404:VAL:HG11	1:a:407:LYS:HG2	2.01	0.42
1:e:187:ALA:HB3	1:e:450:VAL:HG13	2.01	0.42
1:f:189:VAL:O	1:f:193:ILE:HG13	2.19	0.42
1:g:182:THR:OG1	1:g:183:GLN:N	2.52	0.42
1:g:200:GLN:CD	1:g:206:LYS:HB2	2.44	0.42
1:g:438:THR:HA	1:g:449:LYS:NZ	2.34	0.42
1:h:503:ASN:O	1:h:507:VAL:HG23	2.19	0.42
1:i:169:LEU:HD12	1:i:479:ALA:HB1	2.01	0.42
1:n:225:ASP:HB3	1:n:391:THR:O	2.19	0.42
1:q:394:ILE:O	1:q:398:ASP:HB2	2.20	0.42
1:r:223:LEU:HD13	1:r:392:PHE:HB3	2.01	0.42
1:r:515:ARG:HA	1:r:518:ILE:HG22	2.02	0.42
1:s:351:ALA:HA	1:s:363:THR:HA	2.01	0.42
1:t:468:LYS:HE3	1:t:468:LYS:HB3	1.83	0.42
1:u:91:ARG:O	1:u:95:LEU:HD23	2.19	0.42
1:v:388:ALA:C	1:v:403:TRP:HD1	2.26	0.42
1:A:98:GLN:HG2	1:A:104:TYR:HE2	1.83	0.42
1:B:404:VAL:HG23	1:B:409:GLU:O	2.20	0.42
1:C:394:ILE:HD13	1:l:420:TYR:H	1.83	0.42
1:D:225:ASP:HB3	1:D:391:THR:O	2.19	0.42
1:E:231:VAL:HA	1:E:386:THR:HA	2.02	0.42
1:G:116:ILE:O	1:G:120:LEU:HG	2.19	0.42
1:H:22:GLN:NE2	1:T:2:ALA:O	2.51	0.42
1:I:449:LYS:O	1:I:451:LEU:HD12	2.19	0.42
1:J:118:GLN:HG2	1:V:496:ARG:CD	2.49	0.42
1:J:355:LEU:HD12	1:J:359:ALA:O	2.20	0.42
1:L:538:GLN:CD	1:i:555:LEU:HD21	2.45	0.42
1:M:113:GLN:O	1:M:117:ASN:ND2	2.53	0.42
1:M:171:LEU:C	1:M:173:GLY:H	2.28	0.42
1:M:407:LYS:HZ3	1:M:409:GLU:HB3	1.83	0.42
1:N:493:VAL:HG22	1:N:497:LEU:HD23	2.01	0.42
1:P:95:LEU:HD23	1:P:95:LEU:HA	1.79	0.42
1:Q:231:VAL:HG22	1:Q:386:THR:HG22	2.00	0.42
1:R:391:THR:HG23	1:R:398:ASP:OD1	2.19	0.42
1:T:131:ASP:OD1	1:T:132:PHE:N	2.53	0.42
1:T:166:VAL:O	1:T:167:LYS:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:530:MET:HE3	1:Z:534:GLN:NE2	2.34	0.42
1:a:528:SER:O	1:a:532:LYS:HG3	2.19	0.42
1:b:91:ARG:HG2	1:b:119:ARG:HH21	1.85	0.42
1:c:503:ASN:O	1:c:507:VAL:HG23	2.19	0.42
1:e:324:THR:HG23	1:e:327:ASP:H	1.85	0.42
1:f:182:THR:OG1	1:f:183:GLN:N	2.53	0.42
1:k:278:TYR:CD1	1:k:344:GLY:HA3	2.53	0.42
1:l:101:ASN:OD1	1:l:102:GLY:N	2.53	0.42
1:n:32:LEU:HD23	1:n:32:LEU:HA	1.83	0.42
1:n:394:ILE:O	1:n:398:ASP:HB2	2.19	0.42
1:p:204:THR:HA	1:p:431:VAL:HA	2.01	0.42
1:q:500:THR:O	1:q:504:LEU:HD23	2.18	0.42
1:r:25:LEU:HB2	1:r:533:ALA:HB1	2.02	0.42
1:r:416:PHE:CG	1:r:417:ASP:N	2.87	0.42
1:t:496:ARG:O	1:t:500:THR:HG23	2.20	0.42
1:u:84:GLU:HA	1:u:84:GLU:OE2	2.18	0.42
1:u:333:GLY:HA2	1:u:337:ASN:O	2.19	0.42
1:B:58:VAL:HG11	1:B:515:ARG:HH21	1.85	0.42
1:B:228:THR:HA	1:B:238:THR:HA	2.01	0.42
1:C:118:GLN:OE1	1:l:496:ARG:NH2	2.52	0.42
1:D:169:LEU:HD23	1:D:479:ALA:HB1	2.01	0.42
1:D:438:THR:HG21	1:D:449:LYS:HD2	2.01	0.42
1:E:50:ILE:HG22	1:E:54:PHE:HE2	1.84	0.42
1:G:239:TYR:HB3	1:G:246:PHE:HD2	1.85	0.42
1:H:413:ILE:HD13	1:H:413:ILE:HA	1.94	0.42
1:I:441:GLN:HE22	1:I:444:SER:N	2.08	0.42
1:I:493:VAL:HG22	1:I:497:LEU:HD23	2.02	0.42
1:J:350:SER:N	1:J:364:ALA:O	2.53	0.42
1:J:416:PHE:CG	1:J:417:ASP:N	2.87	0.42
1:J:449:LYS:O	1:J:451:LEU:HD12	2.19	0.42
1:K:92:ILE:HD11	1:K:119:ARG:HB3	2.02	0.42
1:L:350:SER:N	1:L:364:ALA:O	2.52	0.42
1:L:499:SER:OG	1:q:88:HIS:NE2	2.51	0.42
1:M:355:LEU:HD12	1:M:359:ALA:O	2.20	0.42
1:M:441:GLN:HE22	1:M:444:SER:N	2.08	0.42
1:N:405:ASP:N	1:N:405:ASP:OD1	2.52	0.42
1:O:166:VAL:O	1:O:167:LYS:HB3	2.20	0.42
1:P:120:LEU:HD11	1:P:174:PHE:HB3	2.01	0.42
1:Q:391:THR:HG23	1:Q:398:ASP:OD1	2.19	0.42
1:R:336:ALA:HB1	1:R:340:VAL:HB	2.01	0.42
1:S:137:VAL:HB	1:S:161:LEU:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:310:GLU:O	1:S:312:THR:HG23	2.20	0.42
1:T:93:ARG:O	1:T:97:VAL:HG23	2.19	0.42
1:U:165:SER:OG	1:U:166:VAL:O	2.34	0.42
1:V:51:ALA:O	1:V:55:THR:HG23	2.19	0.42
1:X:32:LEU:HD12	1:X:523:TYR:CE2	2.55	0.42
1:Y:41:ALA:HB2	1:Y:48:MET:SD	2.59	0.42
1:Y:249:THR:HB	1:Y:366:VAL:HG22	2.01	0.42
1:a:58:VAL:O	1:a:62:THR:HG23	2.20	0.42
1:a:182:THR:OG1	1:a:183:GLN:N	2.53	0.42
1:c:485:LYS:HB2	1:c:485:LYS:HE3	1.76	0.42
1:d:280:ILE:HB	1:d:288:PHE:CD2	2.55	0.42
1:d:412:ASP:OD1	1:d:412:ASP:N	2.45	0.42
1:e:439:ALA:O	1:e:450:VAL:HG12	2.20	0.42
1:e:528:SER:O	1:e:532:LYS:HG3	2.19	0.42
1:f:81:ALA:O	1:f:85:VAL:HG23	2.19	0.42
1:f:496:ARG:O	1:f:500:THR:HG23	2.19	0.42
1:h:54:PHE:HE1	1:h:511:LEU:HD22	1.83	0.42
1:i:256:VAL:HG12	1:i:259:ASP:H	1.85	0.42
1:i:485:LYS:HE3	1:i:485:LYS:HB2	1.75	0.42
1:j:125:ARG:HH21	1:v:500:THR:HG22	1.84	0.42
1:j:275:SER:HB3	1:j:278:TYR:OH	2.19	0.42
1:j:503:ASN:O	1:j:507:VAL:HG23	2.20	0.42
1:q:402:THR:C	1:q:403:TRP:HD1	2.28	0.42
1:r:174:PHE:HA	1:r:469:THR:HG21	2.02	0.42
1:A:133:ASN:ND2	1:P:50:ILE:HD12	2.34	0.42
1:A:171:LEU:HD22	1:A:174:PHE:CD1	2.55	0.42
1:B:281:SER:HA	1:B:287:SER:H	1.85	0.42
1:B:497:LEU:O	1:B:501:ILE:HG13	2.20	0.42
1:E:197:GLY:N	1:E:205:TYR:OH	2.52	0.42
1:E:355:LEU:HD12	1:E:359:ALA:O	2.19	0.42
1:F:332:VAL:HG13	1:F:332:VAL:O	2.19	0.42
1:F:441:GLN:HB2	1:F:450:VAL:HG23	2.02	0.42
1:G:91:ARG:HG2	1:G:119:ARG:HH21	1.85	0.42
1:G:521:ALA:HB1	1:G:526:GLU:OE1	2.20	0.42
1:H:50:ILE:HD12	1:m:133:ASN:ND2	2.34	0.42
1:H:54:PHE:CE1	1:H:511:LEU:HD22	2.54	0.42
1:I:84:GLU:OE1	1:I:84:GLU:HA	2.19	0.42
1:J:332:VAL:O	1:J:332:VAL:HG13	2.19	0.42
1:L:546:GLN:HA	1:L:549:GLN:OE1	2.19	0.42
1:M:86:ASN:OD1	1:M:90:GLN:NE2	2.53	0.42
1:M:241:ALA:HB2	1:M:246:PHE:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:57:ASN:O	1:N:61:LEU:HG	2.20	0.42
1:O:163:GLU:HG3	1:O:163:GLU:O	2.19	0.42
1:S:184:ASN:HB3	1:S:452:VAL:O	2.20	0.42
1:S:416:PHE:CD2	1:S:421:LYS:HG3	2.54	0.42
1:U:310:GLU:O	1:U:312:THR:HG23	2.20	0.42
1:X:6:ASN:O	1:r:532:LYS:NZ	2.37	0.42
1:X:51:ALA:O	1:X:55:THR:HG23	2.20	0.42
1:X:129:GLN:HG3	1:j:155:GLU:HG3	2.01	0.42
1:X:416:PHE:CE2	1:X:421:LYS:HG3	2.55	0.42
1:X:457:LYS:HG3	1:X:458:LEU:H	1.85	0.42
1:Y:137:VAL:HB	1:Y:161:LEU:HD11	2.01	0.42
1:Y:524:ALA:HB1	1:v:15:GLN:HG2	2.00	0.42
1:Z:231:VAL:HA	1:Z:386:THR:HG22	2.00	0.42
1:a:86:ASN:O	1:a:90:GLN:HG2	2.19	0.42
1:a:165:SER:O	1:a:169:LEU:HD23	2.20	0.42
1:a:189:VAL:O	1:a:193:ILE:HG13	2.19	0.42
1:a:406:ASN:OD1	1:a:406:ASN:N	2.53	0.42
1:d:182:THR:OG1	1:d:183:GLN:N	2.52	0.42
1:d:199:LEU:HD23	1:d:200:GLN:N	2.34	0.42
1:e:107:GLU:OE1	1:e:107:GLU:N	2.37	0.42
1:e:268:LYS:O	1:e:271:SER:OG	2.34	0.42
1:e:318:GLY:H	1:e:321:THR:HG21	1.84	0.42
1:f:275:SER:HB3	1:f:278:TYR:OH	2.19	0.42
1:g:249:THR:HG22	1:g:366:VAL:HG22	2.01	0.42
1:h:91:ARG:HG2	1:h:119:ARG:HH21	1.84	0.42
1:i:157:ILE:HG21	1:i:497:LEU:HD21	2.01	0.42
1:j:74:LEU:HD13	1:j:132:PHE:CD1	2.55	0.42
1:j:167:LYS:HA	1:j:172:ASP:HB2	2.02	0.42
1:j:435:ASN:HA	1:r:188:THR:OG1	2.20	0.42
1:k:394:ILE:O	1:k:398:ASP:N	2.53	0.42
1:m:171:LEU:HB3	1:m:174:PHE:HB2	2.01	0.42
1:p:208:THR:HB	1:p:425:ASP:OD2	2.19	0.42
1:p:218:THR:O	1:p:221:SER:OG	2.36	0.42
1:q:95:LEU:HD12	1:q:112:VAL:HG13	2.01	0.42
1:q:225:ASP:HB3	1:q:391:THR:O	2.18	0.42
1:r:355:LEU:N	1:r:361:ALA:HB2	2.35	0.42
1:s:215:SER:HG	1:s:217:GLU:CD	2.28	0.42
1:t:416:PHE:CG	1:t:417:ASP:N	2.88	0.42
1:v:208:THR:HB	1:v:425:ASP:OD2	2.19	0.42
1:A:355:LEU:HD12	1:A:359:ALA:O	2.20	0.42
1:C:37:ARG:HB2	1:C:521:ALA:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:169:LEU:HD12	1:C:479:ALA:HB1	2.01	0.42
1:C:304:PHE:HA	1:C:323:ALA:HB2	2.01	0.42
1:D:94:GLU:OE1	1:c:59:ARG:HG2	2.20	0.42
1:E:50:ILE:HG22	1:E:54:PHE:CE2	2.55	0.42
1:E:96:THR:O	1:E:100:SER:OG	2.32	0.42
1:F:113:GLN:O	1:F:117:ASN:ND2	2.53	0.42
1:F:246:PHE:H	1:F:371:GLY:HA2	1.85	0.42
1:F:388:ALA:HB3	1:F:403:TRP:CZ3	2.54	0.42
1:H:315:ASP:OD1	1:H:315:ASP:N	2.53	0.42
1:H:503:ASN:HB2	1:m:84:GLU:HG3	2.02	0.42
1:I:54:PHE:HE1	1:I:511:LEU:HD22	1.84	0.42
1:I:192:VAL:HG12	1:I:458:LEU:HD11	2.00	0.42
1:I:416:PHE:CG	1:I:417:ASP:N	2.87	0.42
1:J:52:ASN:ND2	1:R:86:ASN:HD21	2.18	0.42
1:K:497:LEU:O	1:K:500:THR:OG1	2.25	0.42
1:K:497:LEU:O	1:K:501:ILE:HG12	2.20	0.42
1:L:311:LEU:HD12	1:L:336:ALA:HB3	2.01	0.42
1:L:461:GLU:OE2	1:L:462:THR:N	2.53	0.42
1:N:390:VAL:HG12	1:N:392:PHE:HB3	2.02	0.42
1:O:355:LEU:HD12	1:O:359:ALA:O	2.20	0.42
1:R:368:SER:O	1:R:368:SER:OG	2.31	0.42
1:S:95:LEU:HD12	1:S:115:GLU:OE1	2.19	0.42
1:T:25:LEU:HB2	1:T:533:ALA:HB1	2.02	0.42
1:V:91:ARG:HG2	1:V:119:ARG:NH2	2.34	0.42
1:V:383:SER:OG	1:V:405:ASP:O	2.37	0.42
1:W:95:LEU:HD23	1:W:95:LEU:HA	1.79	0.42
1:b:22:GLN:NE2	1:n:2:ALA:O	2.52	0.42
1:b:528:SER:O	1:b:532:LYS:HG3	2.19	0.42
1:d:6:ASN:HD22	1:l:36:LEU:HD23	1.84	0.42
1:d:30:GLU:OE2	1:d:39:ASN:ND2	2.52	0.42
1:d:169:LEU:HD12	1:d:479:ALA:HB1	2.02	0.42
1:i:434:ASP:HB2	1:q:189:VAL:HG11	2.02	0.42
1:j:165:SER:O	1:j:169:LEU:HD23	2.20	0.42
1:j:528:SER:O	1:j:532:LYS:HG3	2.20	0.42
1:k:438:THR:HA	1:k:449:LYS:NZ	2.35	0.42
1:l:225:ASP:HB3	1:l:391:THR:O	2.19	0.42
1:n:167:LYS:HE3	1:n:167:LYS:HB3	1.87	0.42
1:q:355:LEU:HD12	1:q:359:ALA:O	2.19	0.42
1:r:189:VAL:HA	1:r:192:VAL:HG22	2.01	0.42
1:s:229:VAL:HG22	1:s:239:TYR:HE1	1.84	0.42
1:s:332:VAL:C	1:s:334:THR:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:25:LEU:HB2	1:t:533:ALA:HB1	2.01	0.42
1:t:405:ASP:OD1	1:t:405:ASP:N	2.51	0.42
1:u:171:LEU:O	1:u:173:GLY:N	2.52	0.42
1:v:192:VAL:HB	1:v:205:TYR:CD2	2.55	0.42
1:C:171:LEU:HB3	1:C:174:PHE:HB2	2.02	0.42
1:E:207:ALA:O	1:E:428:GLU:N	2.53	0.42
1:E:490:LEU:HA	1:E:493:VAL:HG12	2.00	0.42
1:F:281:SER:HA	1:F:286:ALA:HB3	2.02	0.42
1:G:316:ALA:HB2	1:t:288:PHE:HE2	1.83	0.42
1:H:534:GLN:O	1:H:538:GLN:HG3	2.20	0.42
1:I:50:ILE:HD12	1:n:133:ASN:ND2	2.35	0.42
1:I:166:VAL:O	1:I:167:LYS:HB3	2.18	0.42
1:J:105:SER:N	1:J:108:GLN:OE1	2.52	0.42
1:J:410:LEU:HD21	1:J:413:ILE:HB	2.01	0.42
1:J:522:ASP:OD2	1:s:3:ALA:N	2.53	0.42
1:K:171:LEU:O	1:K:173:GLY:N	2.51	0.42
1:L:532:LYS:O	1:L:536:LEU:HD23	2.19	0.42
1:N:239:TYR:CD2	1:N:248:TYR:HB2	2.55	0.42
1:N:258:ALA:HA	1:N:357:TYR:HD1	1.85	0.42
1:P:101:ASN:OD1	1:P:102:GLY:N	2.52	0.42
1:Q:189:VAL:HB	1:Q:432:VAL:HG11	2.02	0.42
1:T:137:VAL:HB	1:T:161:LEU:HD11	2.01	0.42
1:Y:84:GLU:O	1:Y:87:THR:OG1	2.32	0.42
1:Y:184:ASN:ND2	1:Y:461:GLU:O	2.53	0.42
1:b:410:LEU:HB3	1:b:413:ILE:HB	2.02	0.42
1:c:182:THR:OG1	1:c:183:GLN:N	2.53	0.42
1:e:400:ASN:OD1	1:e:401:ASN:N	2.53	0.42
1:i:200:GLN:N	1:i:204:THR:O	2.46	0.42
1:i:400:ASN:OD1	1:i:401:ASN:N	2.53	0.42
1:j:474:LYS:N	1:j:474:LYS:HD2	2.35	0.42
1:l:95:LEU:HD12	1:l:112:VAL:HG13	2.02	0.42
1:o:225:ASP:HB3	1:o:391:THR:O	2.20	0.42
1:p:274:ILE:HG12	1:p:293:ALA:HA	2.02	0.42
1:p:468:LYS:HB3	1:p:468:LYS:HE3	1.85	0.42
1:q:189:VAL:HA	1:q:192:VAL:HG22	2.01	0.42
1:s:155:GLU:OE1	1:s:155:GLU:N	2.51	0.42
1:t:225:ASP:HB3	1:t:391:THR:O	2.19	0.42
1:u:355:LEU:HD12	1:u:359:ALA:O	2.20	0.42
1:v:73:SER:O	1:v:77:THR:HG23	2.20	0.42
1:A:239:TYR:HB3	1:A:246:PHE:HD2	1.85	0.42
1:A:405:ASP:OD1	1:A:405:ASP:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:74:LEU:HD13	1:C:132:PHE:CD1	2.54	0.42
1:C:406:ASN:OD1	1:C:406:ASN:N	2.52	0.42
1:G:400:ASN:OD1	1:G:401:ASN:N	2.52	0.42
1:I:532:LYS:O	1:I:536:LEU:HD23	2.20	0.42
1:J:50:ILE:HD12	1:o:133:ASN:ND2	2.35	0.42
1:J:278:TYR:N	1:J:290:VAL:O	2.50	0.42
1:K:22:GLN:NE2	1:W:2:ALA:O	2.53	0.42
1:K:155:GLU:OE1	1:K:155:GLU:N	2.53	0.42
1:K:332:VAL:C	1:K:334:THR:H	2.28	0.42
1:L:54:PHE:CE1	1:L:511:LEU:HD22	2.55	0.42
1:L:229:VAL:HG22	1:L:239:TYR:HE1	1.85	0.42
1:L:355:LEU:HD12	1:L:359:ALA:O	2.20	0.42
1:M:163:GLU:C	1:M:168:THR:HG21	2.45	0.42
1:O:155:GLU:OE1	1:O:155:GLU:N	2.52	0.42
1:Q:51:ALA:O	1:Q:55:THR:HG23	2.19	0.42
1:S:171:LEU:O	1:S:173:GLY:N	2.51	0.42
1:T:310:GLU:O	1:T:312:THR:HG23	2.20	0.42
1:U:95:LEU:HD12	1:U:115:GLU:OE1	2.20	0.42
1:X:391:THR:HG23	1:X:398:ASP:OD1	2.20	0.42
1:Y:189:VAL:HB	1:Y:432:VAL:HG11	2.01	0.42
1:Z:336:ALA:HB1	1:Z:340:VAL:HB	2.01	0.42
1:Z:365:ASP:HB3	1:Z:367:LEU:HD22	2.02	0.42
1:a:178:GLY:HA2	1:a:468:LYS:NZ	2.35	0.42
1:a:211:PHE:HE2	1:a:426:THR:H	1.67	0.42
1:a:256:VAL:HG12	1:a:259:ASP:H	1.84	0.42
1:a:304:PHE:N	1:a:314:ASN:O	2.52	0.42
1:b:54:PHE:HE1	1:b:511:LEU:HD22	1.84	0.42
1:b:122:ASP:HB2	1:n:496:ARG:CG	2.50	0.42
1:b:330:THR:HG22	1:b:335:GLU:OE1	2.20	0.42
1:b:398:ASP:OD1	1:b:399:SER:N	2.53	0.42
1:c:528:SER:O	1:c:532:LYS:HG3	2.20	0.42
1:d:98:GLN:HG2	1:d:104:TYR:CE2	2.53	0.42
1:d:485:LYS:HB2	1:d:485:LYS:HE3	1.76	0.42
1:e:144:PRO:HB3	1:e:160:ASN:HA	2.02	0.42
1:g:41:ALA:HB2	1:g:48:MET:SD	2.60	0.42
1:h:182:THR:OG1	1:h:183:GLN:N	2.53	0.42
1:i:144:PRO:HB3	1:i:160:ASN:HA	2.02	0.42
1:k:86:ASN:O	1:k:90:GLN:HG2	2.20	0.42
1:k:324:THR:HG23	1:k:327:ASP:H	1.84	0.42
1:l:345:THR:HB	1:l:347:TYR:CE1	2.55	0.42
1:m:231:VAL:HA	1:m:386:THR:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:405:ASP:OD1	1:q:405:ASP:N	2.53	0.42
1:t:476:LEU:HD23	1:t:476:LEU:HA	1.86	0.42
1:u:228:THR:HG22	1:u:238:THR:HG23	2.01	0.42
1:u:355:LEU:N	1:u:361:ALA:HB2	2.35	0.42
1:v:116:ILE:HD13	1:v:174:PHE:HE2	1.83	0.42
1:v:279:GLU:OE1	1:v:288:PHE:N	2.52	0.42
1:A:113:GLN:O	1:A:117:ASN:ND2	2.53	0.41
1:A:171:LEU:O	1:A:173:GLY:N	2.52	0.41
1:B:58:VAL:HG11	1:B:515:ARG:NH2	2.35	0.41
1:C:48:MET:HE3	1:C:48:MET:HB2	1.93	0.41
1:D:468:LYS:HE3	1:D:468:LYS:HB3	1.84	0.41
1:D:523:TYR:CE2	1:c:5:ILE:HG12	2.52	0.41
1:E:92:ILE:HD11	1:E:119:ARG:HB3	2.02	0.41
1:E:532:LYS:O	1:E:536:LEU:HD23	2.19	0.41
1:F:93:ARG:NH2	1:o:151:ALA:HB1	2.35	0.41
1:F:390:VAL:HG23	1:F:403:TRP:HH2	1.85	0.41
1:F:490:LEU:HA	1:F:493:VAL:HG12	2.01	0.41
1:H:171:LEU:C	1:H:173:GLY:H	2.28	0.41
1:I:278:TYR:N	1:I:290:VAL:O	2.52	0.41
1:J:534:GLN:O	1:J:538:GLN:HG3	2.19	0.41
1:M:129:GLN:NE2	1:Y:155:GLU:HB2	2.35	0.41
1:M:496:ARG:NH2	1:r:118:GLN:OE1	2.53	0.41
1:N:499:SER:OG	1:s:88:HIS:NE2	2.53	0.41
1:Q:336:ALA:HB1	1:Q:340:VAL:HB	2.02	0.41
1:Q:496:ARG:O	1:Q:500:THR:HG23	2.19	0.41
1:R:457:LYS:HG3	1:R:458:LEU:H	1.85	0.41
1:R:522:ASP:HB3	1:R:525:THR:HG22	2.02	0.41
1:U:25:LEU:HB2	1:U:533:ALA:HB1	2.01	0.41
1:U:513:SER:O	1:U:517:ARG:HD3	2.20	0.41
1:V:275:SER:HB2	1:V:278:TYR:HE2	1.85	0.41
1:W:95:LEU:HD12	1:W:115:GLU:OE1	2.20	0.41
1:Y:50:ILE:HG22	1:Y:54:PHE:CE2	2.55	0.41
1:Y:277:SER:OG	1:Y:289:ASP:OD1	2.22	0.41
1:Y:490:LEU:HA	1:Y:493:VAL:HG12	2.01	0.41
1:Y:493:VAL:HG22	1:Y:497:LEU:HD23	2.02	0.41
1:Z:93:ARG:O	1:Z:97:VAL:HG23	2.20	0.41
1:b:385:ILE:HA	1:b:405:ASP:HB2	2.01	0.41
1:c:317:SER:OG	1:c:321:THR:OG1	2.25	0.41
1:d:318:GLY:H	1:d:321:THR:HG21	1.85	0.41
1:e:291:ASP:O	1:e:297:THR:OG1	2.35	0.41
1:f:125:ARG:HH21	1:r:500:THR:HG22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:395:ALA:HA	1:h:398:ASP:HB2	2.02	0.41
1:h:485:LYS:HB2	1:h:485:LYS:HE3	1.77	0.41
1:i:88:HIS:NE2	1:u:499:SER:OG	2.52	0.41
1:i:497:LEU:O	1:i:500:THR:OG1	2.32	0.41
1:j:304:PHE:CD2	1:j:317:SER:HB2	2.55	0.41
1:l:146:THR:O	1:l:157:ILE:N	2.45	0.41
1:m:167:LYS:HE3	1:m:167:LYS:HB3	1.86	0.41
1:m:274:ILE:HG12	1:m:293:ALA:HA	2.02	0.41
1:p:416:PHE:CG	1:p:417:ASP:N	2.88	0.41
1:t:55:THR:O	1:t:59:ARG:HG2	2.20	0.41
1:u:249:THR:HG22	1:u:366:VAL:HG13	2.01	0.41
1:v:41:ALA:HB2	1:v:48:MET:HG2	2.02	0.41
1:v:159:LEU:HD23	1:v:493:VAL:HG11	2.02	0.41
1:v:211:PHE:HB3	1:v:415:THR:O	2.20	0.41
1:v:311:LEU:HB3	1:v:331:SER:HB2	2.01	0.41
1:B:81:ALA:O	1:B:85:VAL:HG23	2.20	0.41
1:C:95:LEU:HD13	1:C:112:VAL:HG13	2.01	0.41
1:C:199:LEU:HA	1:C:205:TYR:CD1	2.55	0.41
1:D:189:VAL:HG11	1:c:434:ASP:HB2	2.02	0.41
1:D:192:VAL:HB	1:D:205:TYR:CD2	2.54	0.41
1:E:64:ALA:HB1	1:E:149:VAL:HA	2.02	0.41
1:E:385:ILE:HA	1:E:405:ASP:OD2	2.20	0.41
1:F:14:ALA:HB3	1:F:544:LEU:HD13	2.02	0.41
1:F:155:GLU:OE1	1:F:155:GLU:N	2.53	0.41
1:G:35:GLY:C	1:p:6:ASN:HD21	2.27	0.41
1:H:46:ALA:O	1:H:50:ILE:HG12	2.20	0.41
1:H:118:GLN:HG2	1:T:496:ARG:HE	1.84	0.41
1:H:496:ARG:CG	1:m:122:ASP:HB2	2.50	0.41
1:K:268:LYS:N	1:K:269:PRO:HD2	2.36	0.41
1:L:188:THR:N	1:L:191:ASP:OD2	2.46	0.41
1:L:493:VAL:HG22	1:L:497:LEU:HD23	2.02	0.41
1:M:25:LEU:HB2	1:M:533:ALA:HB1	2.01	0.41
1:M:416:PHE:CG	1:M:417:ASP:N	2.87	0.41
1:N:158:THR:HG22	1:N:160:ASN:OD1	2.19	0.41
1:P:310:GLU:O	1:P:312:THR:HG23	2.20	0.41
1:P:476:LEU:HD23	1:P:476:LEU:HA	1.86	0.41
1:Q:54:PHE:O	1:Q:58:VAL:HG23	2.21	0.41
1:Q:157:ILE:HG23	1:Q:496:ARG:NH2	2.35	0.41
1:S:301:ASN:OD1	1:S:302:ALA:N	2.48	0.41
1:T:332:VAL:O	1:T:336:ALA:HB2	2.20	0.41
1:T:496:ARG:O	1:T:500:THR:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:275:SER:HB2	1:V:278:TYR:CE2	2.55	0.41
1:V:391:THR:HG23	1:V:398:ASP:OD1	2.20	0.41
1:W:37:ARG:NH2	1:W:518:ILE:O	2.52	0.41
1:X:522:ASP:HB3	1:X:525:THR:HG22	2.01	0.41
1:Y:390:VAL:HG23	1:Y:403:TRP:HH2	1.85	0.41
1:Z:37:ARG:N	1:Z:519:GLN:O	2.49	0.41
1:d:38:ILE:HD12	1:d:519:GLN:HA	2.02	0.41
1:d:334:THR:HG23	1:d:355:LEU:HB3	2.02	0.41
1:d:439:ALA:O	1:d:450:VAL:HG12	2.20	0.41
1:d:496:ARG:O	1:d:500:THR:HG23	2.19	0.41
1:f:25:LEU:HB2	1:f:533:ALA:HB1	2.03	0.41
1:h:88:HIS:NE2	1:t:499:SER:OG	2.53	0.41
1:h:332:VAL:HG13	1:h:340:VAL:HG12	2.01	0.41
1:i:503:ASN:O	1:i:507:VAL:HG23	2.20	0.41
1:j:291:ASP:O	1:j:297:THR:OG1	2.32	0.41
1:l:199:LEU:HD23	1:l:205:TYR:HD1	1.85	0.41
1:l:388:ALA:O	1:l:403:TRP:HB2	2.21	0.41
1:q:116:ILE:HD13	1:q:174:PHE:HE2	1.83	0.41
1:r:164:ILE:HD13	1:r:164:ILE:HA	1.95	0.41
1:s:187:ALA:HB2	1:s:452:VAL:HG23	2.02	0.41
1:t:155:GLU:OE1	1:t:155:GLU:N	2.51	0.41
1:v:91:ARG:O	1:v:95:LEU:HD23	2.19	0.41
1:v:127:SER:CB	1:v:165:SER:HB3	2.50	0.41
1:v:332:VAL:O	1:v:334:THR:N	2.53	0.41
1:A:29:ILE:HG23	1:P:543:VAL:HG22	2.02	0.41
1:B:95:LEU:HD12	1:B:115:GLU:OE1	2.20	0.41
1:C:98:GLN:HG2	1:C:104:TYR:CE2	2.54	0.41
1:C:254:THR:HG21	1:C:262:ALA:HB3	2.03	0.41
1:C:528:SER:O	1:C:532:LYS:HG3	2.20	0.41
1:D:405:ASP:N	1:D:405:ASP:OD1	2.50	0.41
1:D:407:LYS:HE2	1:D:409:GLU:HB3	2.02	0.41
1:E:210:THR:C	1:E:211:PHE:HD2	2.28	0.41
1:G:493:VAL:HG22	1:G:497:LEU:HD23	2.02	0.41
1:H:93:ARG:HA	1:H:476:LEU:HD13	2.02	0.41
1:H:157:ILE:HG23	1:H:496:ARG:NH2	2.36	0.41
1:H:278:TYR:N	1:H:290:VAL:O	2.49	0.41
1:K:54:PHE:CE1	1:K:511:LEU:HD22	2.55	0.41
1:K:332:VAL:HG13	1:K:332:VAL:O	2.21	0.41
1:K:385:ILE:HA	1:K:405:ASP:OD2	2.20	0.41
1:L:473:LEU:HD13	1:u:153:ASP:OD2	2.20	0.41
1:M:153:ASP:H	1:U:473:LEU:HD12	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:493:VAL:HG22	1:M:497:LEU:HD23	2.03	0.41
1:O:55:THR:HG22	1:O:515:ARG:HH11	1.84	0.41
1:Q:184:ASN:HB3	1:Q:452:VAL:O	2.20	0.41
1:R:365:ASP:HB3	1:R:367:LEU:HD22	2.01	0.41
1:S:166:VAL:O	1:S:167:LYS:HB3	2.18	0.41
1:V:4:VAL:HG22	1:V:6:ASN:H	1.85	0.41
1:X:126:ILE:HG12	1:j:503:ASN:ND2	2.34	0.41
1:X:253:ASP:HA	1:X:263:LEU:HD12	2.00	0.41
1:a:88:HIS:NE2	1:m:499:SER:OG	2.53	0.41
1:a:141:SER:O	1:a:141:SER:OG	2.30	0.41
1:b:177:ASN:HD21	1:b:179:LYS:HE2	1.85	0.41
1:b:496:ARG:O	1:b:500:THR:HG23	2.19	0.41
1:c:78:THR:HG21	1:c:161:LEU:HD12	2.03	0.41
1:e:72:ILE:HD11	1:e:497:LEU:HB3	2.03	0.41
1:e:304:PHE:CD2	1:e:317:SER:HB2	2.56	0.41
1:f:188:THR:O	1:f:192:VAL:HG23	2.20	0.41
1:g:119:ARG:O	1:g:123:ILE:HG13	2.20	0.41
1:g:188:THR:HB	1:o:435:ASN:CG	2.45	0.41
1:i:98:GLN:HG2	1:i:104:TYR:HE2	1.85	0.41
1:j:25:LEU:HB2	1:j:533:ALA:HB1	2.03	0.41
1:j:281:SER:HA	1:j:286:ALA:HB3	2.03	0.41
1:k:113:GLN:HE22	1:k:175:ASN:HA	1.85	0.41
1:k:496:ARG:O	1:k:500:THR:HG23	2.20	0.41
1:m:145:LEU:HB2	1:m:159:LEU:HD12	2.03	0.41
1:n:200:GLN:NE2	1:n:201:GLY:O	2.54	0.41
1:n:402:THR:C	1:n:403:TRP:HD1	2.29	0.41
1:o:187:ALA:HB2	1:o:452:VAL:HG23	2.01	0.41
1:o:231:VAL:HG23	1:o:385:ILE:C	2.45	0.41
1:p:25:LEU:HB2	1:p:533:ALA:HB1	2.02	0.41
1:p:394:ILE:O	1:p:398:ASP:HB2	2.20	0.41
1:s:311:LEU:HD12	1:s:336:ALA:HB3	2.02	0.41
1:s:416:PHE:CG	1:s:417:ASP:N	2.89	0.41
1:A:54:PHE:HE1	1:A:511:LEU:HD22	1.84	0.41
1:A:188:THR:N	1:A:191:ASP:OD2	2.43	0.41
1:A:279:GLU:O	1:A:343:GLY:N	2.45	0.41
1:D:351:ALA:HA	1:D:363:THR:HA	2.03	0.41
1:D:537:GLN:O	1:D:541:THR:HG23	2.21	0.41
1:E:246:PHE:H	1:E:371:GLY:HA2	1.85	0.41
1:E:268:LYS:N	1:E:269:PRO:HD2	2.36	0.41
1:E:332:VAL:HG13	1:E:332:VAL:O	2.20	0.41
1:F:157:ILE:HG23	1:F:496:ARG:NH2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:390:VAL:HG12	1:F:392:PHE:HB3	2.02	0.41
1:G:93:ARG:NH2	1:p:151:ALA:HB1	2.35	0.41
1:H:108:GLN:HG2	1:L:50:ILE:CD1	2.50	0.41
1:I:91:ARG:HG2	1:I:119:ARG:HH21	1.84	0.41
1:J:394:ILE:HG22	1:J:396:THR:H	1.85	0.41
1:J:532:LYS:O	1:J:536:LEU:HD23	2.20	0.41
1:L:125:ARG:NH2	1:X:500:THR:HG22	2.35	0.41
1:M:50:ILE:HD12	1:r:133:ASN:ND2	2.35	0.41
1:M:54:PHE:CE1	1:M:511:LEU:HD22	2.55	0.41
1:M:390:VAL:HG12	1:M:392:PHE:HB3	2.01	0.41
1:N:22:GLN:NE2	1:Z:2:ALA:O	2.53	0.41
1:N:441:GLN:HE22	1:N:444:SER:N	2.07	0.41
1:O:231:VAL:HA	1:O:386:THR:HA	2.02	0.41
1:O:333:GLY:N	1:O:337:ASN:HB2	2.31	0.41
1:P:493:VAL:HG22	1:P:497:LEU:HD23	2.02	0.41
1:Q:61:LEU:HG	1:Q:504:LEU:HD12	2.03	0.41
1:S:476:LEU:HD23	1:S:476:LEU:HA	1.88	0.41
1:U:524:ALA:HB1	1:r:15:GLN:HG2	2.01	0.41
1:V:461:GLU:CD	1:V:463:THR:H	2.28	0.41
1:V:493:VAL:O	1:V:497:LEU:HD23	2.20	0.41
1:W:204:THR:HA	1:W:431:VAL:HA	2.01	0.41
1:W:416:PHE:CD2	1:W:421:LYS:HG3	2.56	0.41
1:Y:461:GLU:CD	1:Y:463:THR:H	2.28	0.41
1:a:119:ARG:O	1:a:123:ILE:HG13	2.21	0.41
1:a:164:ILE:HG23	1:a:169:LEU:HD21	2.02	0.41
1:a:228:THR:HA	1:a:238:THR:HA	2.01	0.41
1:b:301:ASN:OD1	1:b:302:ALA:N	2.44	0.41
1:d:200:GLN:N	1:d:204:THR:O	2.50	0.41
1:e:41:ALA:HB2	1:e:48:MET:SD	2.59	0.41
1:f:88:HIS:NE2	1:r:499:SER:OG	2.53	0.41
1:f:281:SER:HA	1:f:286:ALA:HB3	2.02	0.41
1:g:99:ALA:HB1	1:g:176:VAL:HG11	2.01	0.41
1:h:434:ASP:OD1	1:h:435:ASN:N	2.53	0.41
1:k:528:SER:O	1:k:532:LYS:HG3	2.21	0.41
1:p:95:LEU:HD12	1:p:112:VAL:HG13	2.03	0.41
1:p:231:VAL:HA	1:p:386:THR:HA	2.01	0.41
1:q:416:PHE:CG	1:q:417:ASP:N	2.88	0.41
1:t:329:LEU:HA	1:t:332:VAL:HG12	2.02	0.41
1:u:159:LEU:HD23	1:u:493:VAL:HG11	2.01	0.41
1:v:25:LEU:HB2	1:v:533:ALA:HB1	2.03	0.41
1:A:473:LEU:HD23	1:m:152:ASN:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:522:ASP:O	1:A:526:GLU:HG2	2.21	0.41
1:A:532:LYS:O	1:A:536:LEU:HD23	2.20	0.41
1:C:57:ASN:O	1:C:61:LEU:HG	2.20	0.41
1:C:81:ALA:O	1:C:85:VAL:HG23	2.21	0.41
1:C:301:ASN:OD1	1:C:302:ALA:N	2.43	0.41
1:C:370:MET:SD	1:C:375:ALA:HB1	2.59	0.41
1:C:485:LYS:HE3	1:C:485:LYS:HB2	1.76	0.41
1:E:394:ILE:HG21	1:Q:420:TYR:HB2	2.01	0.41
1:F:385:ILE:HA	1:F:405:ASP:OD2	2.20	0.41
1:H:311:LEU:HD12	1:H:336:ALA:HB3	2.03	0.41
1:H:441:GLN:HB2	1:H:450:VAL:HG23	2.02	0.41
1:I:14:ALA:HB3	1:I:544:LEU:HD13	2.01	0.41
1:I:503:ASN:HB2	1:n:84:GLU:HG3	2.02	0.41
1:K:54:PHE:HE1	1:K:511:LEU:HD22	1.84	0.41
1:K:57:ASN:O	1:K:61:LEU:HG	2.20	0.41
1:L:5:ILE:HD11	1:L:554:VAL:HG11	2.02	0.41
1:O:332:VAL:O	1:O:332:VAL:HG13	2.21	0.41
1:R:36:LEU:HD22	1:R:519:GLN:HG2	2.02	0.41
1:S:390:VAL:HG23	1:S:403:TRP:HH2	1.84	0.41
1:T:120:LEU:HD11	1:T:174:PHE:HB3	2.02	0.41
1:T:383:SER:OG	1:T:405:ASP:O	2.38	0.41
1:T:438:THR:OG1	1:T:449:LYS:HG3	2.21	0.41
1:T:439:ALA:O	1:T:450:VAL:HG12	2.20	0.41
1:W:457:LYS:HG3	1:W:458:LEU:H	1.85	0.41
1:b:86:ASN:O	1:b:90:GLN:HG2	2.20	0.41
1:b:193:ILE:HA	1:b:197:GLY:HA3	2.03	0.41
1:d:451:LEU:HD13	1:d:462:THR:HG22	2.02	0.41
1:f:188:THR:HB	1:n:435:ASN:CG	2.46	0.41
1:f:503:ASN:O	1:f:507:VAL:HG23	2.21	0.41
1:g:394:ILE:HD11	1:s:419:SER:HB2	2.03	0.41
1:h:171:LEU:O	1:h:173:GLY:N	2.53	0.41
1:j:84:GLU:OE2	1:v:499:SER:OG	2.34	0.41
1:j:85:VAL:O	1:j:89:LEU:HD23	2.20	0.41
1:j:441:GLN:HG2	1:j:445:ALA:HB3	2.03	0.41
1:l:355:LEU:N	1:l:361:ALA:HB2	2.36	0.41
1:l:355:LEU:HD12	1:l:359:ALA:O	2.20	0.41
1:l:394:ILE:O	1:l:398:ASP:HB2	2.20	0.41
1:p:231:VAL:HG23	1:p:385:ILE:C	2.45	0.41
1:p:281:SER:O	1:p:340:VAL:HB	2.21	0.41
1:r:192:VAL:HG12	1:r:458:LEU:HD11	2.01	0.41
1:s:522:ASP:O	1:s:522:ASP:OD2	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:355:LEU:HB2	1:t:361:ALA:HB2	2.03	0.41
1:t:370:MET:HG2	1:t:376:VAL:HG23	2.02	0.41
1:u:144:PRO:HB3	1:u:160:ASN:HA	2.01	0.41
1:u:192:VAL:HB	1:u:205:TYR:CD2	2.56	0.41
1:u:416:PHE:CG	1:u:417:ASP:N	2.88	0.41
1:A:116:ILE:O	1:A:120:LEU:HG	2.21	0.41
1:B:126:ILE:HG12	1:a:503:ASN:ND2	2.35	0.41
1:B:211:PHE:HB3	1:B:415:THR:O	2.20	0.41
1:C:119:ARG:O	1:C:123:ILE:HG13	2.20	0.41
1:D:281:SER:O	1:D:340:VAL:HB	2.21	0.41
1:D:332:VAL:O	1:D:334:THR:N	2.54	0.41
1:E:532:LYS:HD3	1:b:6:ASN:O	2.21	0.41
1:F:55:THR:HG22	1:F:515:ARG:HH11	1.85	0.41
1:F:193:ILE:HA	1:F:205:TYR:OH	2.21	0.41
1:G:157:ILE:HG23	1:G:496:ARG:NH2	2.35	0.41
1:G:177:ASN:HD21	1:G:179:LYS:HZ3	1.66	0.41
1:G:332:VAL:O	1:G:332:VAL:HG13	2.20	0.41
1:H:355:LEU:HD12	1:H:359:ALA:O	2.20	0.41
1:I:77:THR:HG22	1:U:510:ASN:HB3	2.02	0.41
1:J:91:ARG:HA	1:J:91:ARG:HD2	1.91	0.41
1:K:46:ALA:O	1:K:50:ILE:HG12	2.21	0.41
1:K:521:ALA:HB1	1:K:526:GLU:CD	2.46	0.41
1:L:50:ILE:HD12	1:q:133:ASN:ND2	2.35	0.41
1:L:166:VAL:O	1:L:167:LYS:HB3	2.21	0.41
1:L:171:LEU:HD22	1:L:174:PHE:CD1	2.56	0.41
1:L:231:VAL:HA	1:L:386:THR:HA	2.03	0.41
1:M:179:LYS:HG3	1:M:180:GLY:N	2.35	0.41
1:M:288:PHE:CE2	1:M:313:THR:HB	2.55	0.41
1:M:332:VAL:HG13	1:M:332:VAL:O	2.19	0.41
1:N:157:ILE:HG23	1:N:496:ARG:NH2	2.34	0.41
1:P:552:GLN:OE1	1:P:552:GLN:N	2.53	0.41
1:S:211:PHE:CD1	1:S:416:PHE:HA	2.55	0.41
1:U:394:ILE:O	1:U:398:ASP:N	2.54	0.41
1:U:545:ALA:O	1:U:548:ASN:N	2.53	0.41
1:U:547:ALA:HA	1:U:550:VAL:HG23	2.02	0.41
1:X:184:ASN:ND2	1:X:461:GLU:O	2.54	0.41
1:Z:58:VAL:HG13	1:Z:508:VAL:HG13	2.03	0.41
1:a:99:ALA:HB1	1:a:176:VAL:HG11	2.02	0.41
1:a:144:PRO:HB3	1:a:160:ASN:H	1.85	0.41
1:a:199:LEU:HD23	1:a:200:GLN:N	2.35	0.41
1:b:29:ILE:HD13	1:b:29:ILE:HA	1.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:394:ILE:O	1:b:397:THR:N	2.49	0.41
1:c:332:VAL:HG13	1:c:340:VAL:HG12	2.01	0.41
1:e:138:LEU:HD12	1:e:138:LEU:HA	1.84	0.41
1:e:188:THR:HB	1:m:435:ASN:CG	2.45	0.41
1:e:260:VAL:HB	1:e:263:LEU:HB3	2.02	0.41
1:f:51:ALA:O	1:f:55:THR:HG23	2.21	0.41
1:f:206:LYS:HB2	1:f:429:VAL:HG22	2.03	0.41
1:g:88:HIS:NE2	1:s:499:SER:OG	2.54	0.41
1:g:254:THR:HG21	1:g:262:ALA:HB3	2.02	0.41
1:g:439:ALA:O	1:g:450:VAL:HG12	2.20	0.41
1:h:199:LEU:HD23	1:h:200:GLN:N	2.36	0.41
1:h:249:THR:HG22	1:h:366:VAL:HG22	2.02	0.41
1:h:324:THR:HG23	1:h:327:ASP:H	1.86	0.41
1:i:182:THR:OG1	1:i:183:GLN:N	2.54	0.41
1:j:332:VAL:HG13	1:j:340:VAL:HG12	2.01	0.41
1:k:85:VAL:O	1:k:89:LEU:HD23	2.20	0.41
1:l:216:ALA:HA	1:l:403:TRP:HH2	1.81	0.41
1:l:416:PHE:CG	1:l:417:ASP:N	2.89	0.41
1:m:355:LEU:N	1:m:361:ALA:HB2	2.35	0.41
1:m:405:ASP:OD1	1:m:405:ASP:N	2.52	0.41
1:n:445:ALA:HB1	1:n:448:ALA:HB2	2.02	0.41
1:o:211:PHE:HD2	1:o:416:PHE:HA	1.85	0.41
1:o:471:ASP:HB3	1:o:474:LYS:HE2	2.01	0.41
1:q:341:THR:HG21	1:q:348:SER:HB2	2.03	0.41
1:q:516:SER:HA	1:q:520:ASP:OD1	2.20	0.41
1:r:311:LEU:HD12	1:r:336:ALA:HB3	2.01	0.41
1:s:231:VAL:HA	1:s:386:THR:HA	2.03	0.41
1:A:153:ASP:N	1:A:153:ASP:OD1	2.54	0.41
1:B:46:ALA:O	1:B:50:ILE:HG12	2.21	0.41
1:B:310:GLU:O	1:B:312:THR:HG23	2.21	0.41
1:B:398:ASP:OD1	1:B:399:SER:N	2.54	0.41
1:C:288:PHE:CE2	1:C:313:THR:HB	2.49	0.41
1:D:345:THR:O	1:D:347:TYR:HD1	2.03	0.41
1:E:316:ALA:HB3	1:r:312:THR:HB	2.03	0.41
1:F:166:VAL:O	1:F:167:LYS:HB3	2.20	0.41
1:G:432:VAL:HA	1:G:439:ALA:HA	2.01	0.41
1:G:461:GLU:OE2	1:G:462:THR:N	2.53	0.41
1:H:64:ALA:HB1	1:H:149:VAL:HA	2.03	0.41
1:J:8:ASN:OD1	1:J:11:SER:N	2.46	0.41
1:K:286:ALA:HB1	1:K:288:PHE:CE2	2.56	0.41
1:M:441:GLN:HB2	1:M:450:VAL:HG23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:126:ILE:HG12	1:d:503:ASN:ND2	2.35	0.41
1:S:12:LEU:HB3	1:a:509:ASN:ND2	2.35	0.41
1:S:37:ARG:NH2	1:S:518:ILE:O	2.54	0.41
1:S:404:VAL:HG23	1:S:409:GLU:O	2.20	0.41
1:T:4:VAL:HG22	1:T:6:ASN:H	1.86	0.41
1:T:256:VAL:HG12	1:T:259:ASP:H	1.85	0.41
1:T:332:VAL:HG11	1:T:342:ILE:HG13	2.02	0.41
1:W:332:VAL:O	1:W:336:ALA:HB2	2.21	0.41
1:X:3:ALA:N	1:f:522:ASP:OD1	2.34	0.41
1:X:98:GLN:NE2	1:X:104:TYR:OH	2.52	0.41
1:X:493:VAL:HG22	1:X:497:LEU:HD23	2.03	0.41
1:Y:171:LEU:O	1:Y:173:GLY:N	2.53	0.41
1:Y:439:ALA:O	1:Y:450:VAL:HG12	2.21	0.41
1:Z:199:LEU:HA	1:Z:205:TYR:CD1	2.56	0.41
1:Z:404:VAL:HG12	1:Z:405:ASP:N	2.36	0.41
1:b:248:TYR:CE2	1:b:250:LYS:HG3	2.53	0.41
1:b:439:ALA:O	1:b:450:VAL:HG12	2.21	0.41
1:d:441:GLN:HG2	1:d:445:ALA:HB3	2.02	0.41
1:d:476:LEU:HD23	1:d:476:LEU:HA	1.93	0.41
1:e:85:VAL:O	1:e:89:LEU:HD23	2.20	0.41
1:f:29:ILE:HD13	1:f:29:ILE:HA	1.96	0.41
1:f:528:SER:O	1:f:532:LYS:HG3	2.20	0.41
1:g:528:SER:O	1:g:532:LYS:HG3	2.20	0.41
1:h:188:THR:HB	1:p:435:ASN:CG	2.45	0.41
1:h:248:TYR:OH	1:h:250:LYS:NZ	2.50	0.41
1:h:248:TYR:CE2	1:h:250:LYS:HG3	2.54	0.41
1:h:404:VAL:HG11	1:h:407:LYS:HG2	2.03	0.41
1:i:165:SER:O	1:i:169:LEU:HD23	2.21	0.41
1:j:438:THR:HG23	1:j:449:LYS:HE2	2.03	0.41
1:j:496:ARG:O	1:j:500:THR:HG23	2.21	0.41
1:l:404:VAL:HG11	1:l:407:LYS:HE3	2.03	0.41
1:m:211:PHE:HD2	1:m:416:PHE:HA	1.85	0.41
1:m:402:THR:C	1:m:403:TRP:HD1	2.29	0.41
1:m:490:LEU:HD23	1:m:490:LEU:HA	1.88	0.41
1:n:211:PHE:HB3	1:n:415:THR:O	2.20	0.41
1:o:332:VAL:O	1:o:334:THR:N	2.54	0.41
1:o:355:LEU:N	1:o:361:ALA:HB2	2.35	0.41
1:p:211:PHE:HE1	1:p:426:THR:HG23	1.85	0.41
1:q:88:HIS:CE1	1:q:119:ARG:HH11	2.39	0.41
1:s:394:ILE:O	1:s:398:ASP:HB2	2.19	0.41
1:t:145:LEU:HB2	1:t:159:LEU:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:105:SER:OG	1:u:108:GLN:OE1	2.19	0.41
1:u:438:THR:HG21	1:u:449:LYS:HD2	2.03	0.41
1:v:155:GLU:OE1	1:v:155:GLU:N	2.54	0.41
1:C:25:LEU:HB2	1:C:533:ALA:HB1	2.03	0.41
1:C:280:ILE:HB	1:C:288:PHE:CD2	2.55	0.41
1:E:268:LYS:HE3	1:E:325:LEU:HD22	2.02	0.41
1:F:472:PRO:O	1:F:475:THR:OG1	2.30	0.41
1:F:497:LEU:O	1:F:500:THR:OG1	2.27	0.41
1:H:22:GLN:OE1	1:T:2:ALA:N	2.53	0.41
1:H:317:SER:HA	1:H:321:THR:HG21	2.02	0.41
1:I:246:PHE:H	1:I:371:GLY:HA2	1.86	0.41
1:J:333:GLY:N	1:J:337:ASN:HB2	2.35	0.41
1:L:86:ASN:OD1	1:L:90:GLN:NE2	2.52	0.41
1:M:455:ASP:OD1	1:M:455:ASP:O	2.39	0.41
1:O:14:ALA:HB3	1:O:544:LEU:HD13	2.03	0.41
1:O:192:VAL:HB	1:O:205:TYR:CD1	2.56	0.41
1:P:78:THR:HG21	1:P:161:LEU:HD12	2.02	0.41
1:P:404:VAL:HG12	1:P:405:ASP:N	2.36	0.41
1:P:558:LEU:HD23	1:P:558:LEU:HA	1.89	0.41
1:Q:310:GLU:O	1:Q:312:THR:HG23	2.20	0.41
1:Q:404:VAL:HG23	1:Q:409:GLU:O	2.21	0.41
1:R:178:GLY:HA3	1:R:468:LYS:HB2	2.03	0.41
1:S:189:VAL:HB	1:S:432:VAL:HG11	2.03	0.41
1:U:496:ARG:O	1:U:500:THR:HG23	2.20	0.41
1:W:41:ALA:HB2	1:W:48:MET:SD	2.60	0.41
1:Y:129:GLN:HG3	1:k:155:GLU:HG3	2.03	0.41
1:Z:128:GLU:O	1:Z:136:LYS:HD2	2.21	0.41
1:Z:187:ALA:HB2	1:Z:452:VAL:HG23	2.01	0.41
1:a:503:ASN:O	1:a:507:VAL:HG23	2.20	0.41
1:b:199:LEU:HD23	1:b:201:GLY:H	1.86	0.41
1:c:421:LYS:HD3	1:c:422:ILE:H	1.86	0.41
1:d:157:ILE:HG21	1:d:497:LEU:HD21	2.02	0.41
1:e:185:ARG:NH2	1:e:191:ASP:OD2	2.53	0.41
1:e:254:THR:HG21	1:e:262:ALA:HB3	2.01	0.41
1:g:324:THR:HG23	1:g:327:ASP:H	1.86	0.41
1:h:398:ASP:OD1	1:h:399:SER:N	2.53	0.41
1:h:496:ARG:O	1:h:500:THR:HG23	2.20	0.41
1:j:138:LEU:HD12	1:j:138:LEU:HA	1.82	0.41
1:j:144:PRO:HB3	1:j:160:ASN:HA	2.02	0.41
1:j:182:THR:OG1	1:j:183:GLN:N	2.53	0.41
1:j:268:LYS:O	1:j:271:SER:OG	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:167:LYS:HA	1:k:172:ASP:HB2	2.01	0.41
1:k:254:THR:HG21	1:k:262:ALA:HB3	2.02	0.41
1:l:496:ARG:O	1:l:500:THR:HG23	2.20	0.41
1:m:222:LYS:HE2	1:m:392:PHE:CE2	2.48	0.41
1:m:404:VAL:HG11	1:m:407:LYS:HE3	2.02	0.41
1:m:415:THR:HA	1:m:420:TYR:HA	2.01	0.41
1:n:240:ASP:O	1:n:246:PHE:HA	2.20	0.41
1:p:200:GLN:NE2	1:p:201:GLY:O	2.54	0.41
1:s:306:ASN:HD22	1:s:314:ASN:HB2	1.85	0.41
1:s:405:ASP:OD1	1:s:405:ASP:N	2.52	0.41
1:t:84:GLU:O	1:t:87:THR:OG1	2.31	0.41
1:t:394:ILE:O	1:t:398:ASP:HB2	2.21	0.41
1:u:95:LEU:HD12	1:u:112:VAL:HG13	2.02	0.41
1:A:54:PHE:CE1	1:A:511:LEU:HD22	2.56	0.41
1:A:278:TYR:N	1:A:290:VAL:O	2.51	0.41
1:B:185:ARG:NH1	1:B:191:ASP:OD2	2.51	0.41
1:B:493:VAL:HG22	1:B:497:LEU:HD23	2.02	0.41
1:C:306:ASN:OD1	1:C:312:THR:OG1	2.30	0.41
1:C:398:ASP:OD1	1:C:399:SER:N	2.53	0.41
1:C:421:LYS:HD3	1:C:422:ILE:H	1.85	0.41
1:D:116:ILE:HD13	1:D:174:PHE:HE2	1.85	0.41
1:D:546:GLN:O	1:D:550:VAL:HG23	2.21	0.41
1:F:413:ILE:HD13	1:F:413:ILE:HA	1.95	0.41
1:G:22:GLN:OE1	1:S:2:ALA:N	2.54	0.41
1:G:55:THR:HA	1:G:58:VAL:HG12	2.03	0.41
1:G:138:LEU:HD11	1:G:164:ILE:HB	2.02	0.41
1:G:268:LYS:N	1:G:269:PRO:HD2	2.36	0.41
1:G:413:ILE:HD12	1:S:396:THR:HG22	2.02	0.41
1:H:288:PHE:HB3	1:H:290:VAL:HG23	2.03	0.41
1:H:521:ALA:HB1	1:H:526:GLU:CD	2.46	0.41
1:H:543:VAL:HG22	1:m:29:ILE:HG23	2.01	0.41
1:I:192:VAL:HB	1:I:205:TYR:CD2	2.56	0.41
1:I:268:LYS:N	1:I:269:PRO:HD2	2.36	0.41
1:I:370:MET:HE3	1:I:376:VAL:HA	2.03	0.41
1:J:211:PHE:HB3	1:J:415:THR:O	2.20	0.41
1:J:288:PHE:HE2	1:J:313:THR:HB	1.86	0.41
1:J:493:VAL:HG22	1:J:497:LEU:HD23	2.02	0.41
1:K:122:ASP:HB2	1:W:496:ARG:CD	2.41	0.41
1:K:405:ASP:N	1:K:405:ASP:OD1	2.53	0.41
1:L:92:ILE:HD11	1:L:119:ARG:HB3	2.03	0.41
1:L:171:LEU:HD21	1:L:476:LEU:HD23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:231:VAL:HG23	1:L:385:ILE:C	2.46	0.41
1:L:268:LYS:HE3	1:L:325:LEU:HD22	2.01	0.41
1:L:370:MET:HE3	1:L:376:VAL:HA	2.03	0.41
1:M:199:LEU:HB2	1:M:205:TYR:HD1	1.85	0.41
1:M:499:SER:OG	1:r:88:HIS:NE2	2.51	0.41
1:N:92:ILE:HD11	1:N:119:ARG:HB3	2.02	0.41
1:N:120:LEU:HD11	1:N:174:PHE:HB3	2.03	0.41
1:N:171:LEU:HD22	1:N:174:PHE:CD1	2.56	0.41
1:N:268:LYS:HE3	1:N:325:LEU:HD22	2.01	0.41
1:N:332:VAL:C	1:N:334:THR:H	2.29	0.41
1:N:486:LEU:O	1:N:490:LEU:HD23	2.21	0.41
1:O:315:ASP:OD1	1:O:315:ASP:N	2.53	0.41
1:P:184:ASN:ND2	1:P:461:GLU:O	2.54	0.41
1:P:211:PHE:CD1	1:P:416:PHE:HA	2.56	0.41
1:P:231:VAL:HG22	1:P:386:THR:HG22	2.01	0.41
1:Q:416:PHE:CE2	1:Q:421:LYS:HG3	2.56	0.41
1:Q:490:LEU:HA	1:Q:493:VAL:HG12	2.01	0.41
1:R:73:SER:HB2	1:d:514:ALA:HB2	2.03	0.41
1:R:165:SER:OG	1:R:166:VAL:O	2.34	0.41
1:R:166:VAL:C	1:R:168:THR:H	2.28	0.41
1:R:231:VAL:HG22	1:R:386:THR:HG22	2.03	0.41
1:T:126:ILE:HG12	1:f:503:ASN:ND2	2.35	0.41
1:T:189:VAL:HB	1:T:432:VAL:HG11	2.03	0.41
1:T:513:SER:O	1:T:517:ARG:HD3	2.20	0.41
1:U:133:ASN:ND2	1:c:103:SER:O	2.54	0.41
1:U:215:SER:OG	1:U:217:GLU:OE1	2.37	0.41
1:U:410:LEU:HB3	1:U:413:ILE:HB	2.03	0.41
1:V:164:ILE:CG1	1:V:486:LEU:HD13	2.51	0.41
1:W:93:ARG:O	1:W:97:VAL:HG23	2.21	0.41
1:W:203:GLY:O	1:W:432:VAL:N	2.44	0.41
1:X:166:VAL:C	1:X:168:THR:H	2.28	0.41
1:X:401:ASN:HB3	1:X:410:LEU:HD21	2.03	0.41
1:Z:406:ASN:C	1:Z:407:LYS:HD3	2.46	0.41
1:a:91:ARG:HG2	1:a:119:ARG:HH21	1.86	0.41
1:a:171:LEU:HB3	1:a:174:PHE:HB2	2.02	0.41
1:a:278:TYR:CD1	1:a:344:GLY:HA3	2.54	0.41
1:a:394:ILE:O	1:a:397:THR:N	2.46	0.41
1:b:57:ASN:O	1:b:61:LEU:HG	2.21	0.41
1:c:25:LEU:HB2	1:c:533:ALA:HB1	2.03	0.41
1:c:246:PHE:O	1:c:371:GLY:HA2	2.20	0.41
1:d:171:LEU:HD21	1:d:476:LEU:HD23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:95:LEU:HD13	1:e:112:VAL:HG13	2.02	0.41
1:e:169:LEU:HD12	1:e:479:ALA:HB1	2.03	0.41
1:e:182:THR:OG1	1:e:183:GLN:N	2.53	0.41
1:f:122:ASP:HB2	1:r:496:ARG:CG	2.51	0.41
1:f:288:PHE:HB3	1:f:290:VAL:HG13	2.02	0.41
1:f:304:PHE:HA	1:f:323:ALA:HB2	2.01	0.41
1:g:275:SER:HB3	1:g:278:TYR:OH	2.20	0.41
1:g:416:PHE:HZ	1:g:423:ASN:HB3	1.86	0.41
1:h:25:LEU:HB2	1:h:533:ALA:HB1	2.02	0.41
1:h:414:GLN:HG2	1:h:424:ALA:HA	2.03	0.41
1:i:253:ASP:OD1	1:i:253:ASP:N	2.53	0.41
1:j:159:LEU:HD23	1:j:159:LEU:HA	1.86	0.41
1:j:188:THR:HB	1:r:435:ASN:CG	2.45	0.41
1:j:398:ASP:OD1	1:j:399:SER:N	2.54	0.41
1:j:495:ASN:O	1:j:498:GLU:HG2	2.21	0.41
1:k:68:ALA:O	1:k:72:ILE:HG13	2.21	0.41
1:k:182:THR:OG1	1:k:183:GLN:N	2.54	0.41
1:k:211:PHE:HE2	1:k:426:THR:H	1.68	0.41
1:k:439:ALA:O	1:k:450:VAL:HG12	2.20	0.41
1:l:204:THR:HA	1:l:431:VAL:HA	2.03	0.41
1:n:141:SER:O	1:n:141:SER:OG	2.31	0.41
1:n:416:PHE:CG	1:n:417:ASP:N	2.89	0.41
1:n:441:GLN:HB3	1:n:448:ALA:H	1.86	0.41
1:n:555:LEU:HD13	1:n:558:LEU:HD21	2.03	0.41
1:o:223:LEU:HD13	1:o:392:PHE:HB3	2.03	0.41
1:q:324:THR:HB	1:q:327:ASP:HB2	2.03	0.41
1:r:497:LEU:O	1:r:500:THR:OG1	2.33	0.41
1:s:215:SER:HB3	1:s:409:GLU:HG2	2.03	0.41
1:u:306:ASN:ND2	1:u:314:ASN:HB2	2.33	0.41
1:A:57:ASN:O	1:A:61:LEU:HG	2.20	0.41
1:A:410:LEU:CD2	1:A:413:ILE:HB	2.51	0.41
1:B:113:GLN:HE21	1:B:176:VAL:H	1.69	0.41
1:C:30:GLU:OE2	1:C:39:ASN:ND2	2.53	0.41
1:C:394:ILE:HD11	1:l:419:SER:HB2	2.03	0.41
1:F:260:VAL:HG21	1:F:335:GLU:HG3	2.02	0.41
1:F:441:GLN:NE2	1:F:444:SER:H	2.12	0.41
1:G:291:ASP:N	1:G:297:THR:O	2.51	0.41
1:H:98:GLN:HG2	1:H:104:TYR:HE2	1.85	0.41
1:J:229:VAL:HG22	1:J:239:TYR:HE1	1.85	0.41
1:J:524:ALA:HB1	1:g:15:GLN:HG2	2.03	0.41
1:K:390:VAL:HG12	1:K:392:PHE:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:91:ARG:HG2	1:O:119:ARG:HH21	1.86	0.41
1:O:212:ASN:HA	1:O:414:GLN:HG3	2.03	0.41
1:O:403:TRP:HB3	1:O:409:GLU:N	2.36	0.41
1:Q:81:ALA:O	1:Q:85:VAL:HG23	2.20	0.41
1:S:30:GLU:HG2	1:e:13:VAL:HG11	2.03	0.41
1:U:385:ILE:HA	1:U:405:ASP:HB2	2.03	0.41
1:U:416:PHE:CE1	1:U:421:LYS:HB2	2.55	0.41
1:X:101:ASN:OD1	1:X:102:GLY:N	2.54	0.41
1:X:113:GLN:NE2	1:X:176:VAL:H	2.20	0.41
1:Y:558:LEU:HD23	1:Y:558:LEU:HA	1.93	0.41
1:a:95:LEU:HD13	1:a:112:VAL:HG13	2.03	0.41
1:a:549:GLN:OE1	1:a:552:GLN:HG3	2.21	0.41
1:b:182:THR:OG1	1:b:183:GLN:N	2.54	0.41
1:c:98:GLN:HG2	1:c:104:TYR:CE2	2.55	0.41
1:c:147:LEU:HD22	1:c:159:LEU:HD21	2.03	0.41
1:c:438:THR:HA	1:c:449:LYS:NZ	2.36	0.41
1:d:178:GLY:HA2	1:d:468:LYS:NZ	2.36	0.41
1:d:189:VAL:HG23	1:d:432:VAL:HG21	2.03	0.41
1:f:330:THR:HG22	1:f:335:GLU:OE1	2.21	0.41
1:h:185:ARG:NH2	1:h:191:ASP:OD2	2.54	0.41
1:i:188:THR:HB	1:q:435:ASN:CG	2.46	0.41
1:j:254:THR:HG21	1:j:262:ALA:HB3	2.01	0.41
1:k:119:ARG:O	1:k:123:ILE:HG13	2.21	0.41
1:l:415:THR:HA	1:l:420:TYR:HA	2.02	0.41
1:n:98:GLN:HG2	1:n:104:TYR:CE2	2.56	0.41
1:n:99:ALA:HB2	1:n:112:VAL:HG11	2.02	0.41
1:o:394:ILE:O	1:o:398:ASP:HB2	2.21	0.41
1:p:223:LEU:HD13	1:p:392:PHE:HB3	2.03	0.41
1:q:204:THR:HA	1:q:431:VAL:HA	2.02	0.41
1:q:223:LEU:HD13	1:q:392:PHE:HB3	2.03	0.41
1:q:332:VAL:C	1:q:334:THR:H	2.29	0.41
1:r:145:LEU:HB2	1:r:159:LEU:HD12	2.03	0.41
1:r:332:VAL:O	1:r:334:THR:N	2.54	0.41
1:r:496:ARG:O	1:r:500:THR:HG23	2.22	0.41
1:s:145:LEU:HB2	1:s:159:LEU:HD12	2.03	0.41
1:s:438:THR:HG21	1:s:449:LYS:HD2	2.03	0.41
1:u:231:VAL:HA	1:u:386:THR:HA	2.02	0.41
1:v:274:ILE:HG12	1:v:293:ALA:HA	2.03	0.41
1:C:211:PHE:CD1	1:C:416:PHE:HA	2.56	0.40
1:E:39:ASN:OD1	1:E:40:SER:N	2.54	0.40
1:F:171:LEU:HD21	1:F:476:LEU:HD23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:113:GLN:O	1:G:117:ASN:ND2	2.53	0.40
1:I:92:ILE:HD11	1:I:119:ARG:HB3	2.03	0.40
1:J:473:LEU:HD13	1:s:153:ASP:OD2	2.21	0.40
1:K:455:ASP:OD1	1:K:455:ASP:O	2.38	0.40
1:K:493:VAL:HG22	1:K:497:LEU:HD23	2.03	0.40
1:L:42:LYS:O	1:T:495:ASN:ND2	2.40	0.40
1:M:260:VAL:HG21	1:M:335:GLU:HG3	2.02	0.40
1:M:280:ILE:HD13	1:M:342:ILE:HG23	2.03	0.40
1:P:419:SER:OG	1:P:421:LYS:NZ	2.54	0.40
1:R:25:LEU:HB2	1:R:533:ALA:HB1	2.03	0.40
1:S:73:SER:HB2	1:e:514:ALA:HB2	2.03	0.40
1:S:120:LEU:HD11	1:S:174:PHE:HB3	2.02	0.40
1:S:391:THR:HG23	1:S:398:ASP:OD1	2.21	0.40
1:T:253:ASP:O	1:T:266:LYS:NZ	2.50	0.40
1:U:540:GLY:HA2	1:U:543:VAL:HG12	2.04	0.40
1:V:12:LEU:HB3	1:d:509:ASN:ND2	2.36	0.40
1:V:228:THR:HA	1:V:238:THR:HA	2.01	0.40
1:W:304:PHE:CE2	1:W:317:SER:HB3	2.56	0.40
1:X:268:LYS:HE3	1:X:268:LYS:HB2	1.91	0.40
1:X:412:ASP:OD1	1:X:413:ILE:HG13	2.21	0.40
1:X:439:ALA:O	1:X:450:VAL:HG12	2.21	0.40
1:a:420:TYR:HB2	1:m:394:ILE:HG21	2.03	0.40
1:b:58:VAL:O	1:b:62:THR:HG23	2.21	0.40
1:c:483:LEU:O	1:c:487:THR:HG23	2.21	0.40
1:e:88:HIS:NE2	1:q:499:SER:OG	2.54	0.40
1:g:189:VAL:HG23	1:g:432:VAL:HG21	2.03	0.40
1:g:540:GLY:HA2	1:g:543:VAL:HG12	2.03	0.40
1:i:22:GLN:OE1	1:u:2:ALA:N	2.55	0.40
1:j:119:ARG:O	1:j:123:ILE:HG13	2.21	0.40
1:l:229:VAL:HG22	1:l:239:TYR:HE1	1.85	0.40
1:m:394:ILE:O	1:m:398:ASP:HB2	2.20	0.40
1:m:471:ASP:HB3	1:m:474:LYS:HB2	2.02	0.40
1:o:189:VAL:HA	1:o:192:VAL:HG22	2.02	0.40
1:o:317:SER:HA	1:o:321:THR:HG21	2.02	0.40
1:o:345:THR:O	1:o:347:TYR:HD1	2.03	0.40
1:q:159:LEU:HD23	1:q:493:VAL:HG11	2.02	0.40
1:s:200:GLN:NE2	1:s:201:GLY:O	2.54	0.40
1:v:37:ARG:NH2	1:v:518:ILE:O	2.54	0.40
1:C:113:GLN:HE22	1:C:175:ASN:HA	1.84	0.40
1:C:182:THR:OG1	1:C:183:GLN:N	2.54	0.40
1:C:549:GLN:HA	1:C:549:GLN:OE1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:394:ILE:HB	1:F:397:THR:HB	2.04	0.40
1:G:394:ILE:HG22	1:G:396:THR:H	1.86	0.40
1:I:405:ASP:OD1	1:I:405:ASP:N	2.53	0.40
1:J:98:GLN:HG2	1:J:104:TYR:HE2	1.86	0.40
1:J:99:ALA:HB2	1:J:112:VAL:HG11	2.03	0.40
1:J:332:VAL:C	1:J:334:THR:H	2.30	0.40
1:M:200:GLN:N	1:M:204:THR:O	2.39	0.40
1:M:405:ASP:OD1	1:M:405:ASP:N	2.53	0.40
1:M:473:LEU:HD23	1:v:152:ASN:H	1.85	0.40
1:O:246:PHE:H	1:O:371:GLY:CA	2.34	0.40
1:P:404:VAL:HG11	1:P:407:LYS:HZ3	1.85	0.40
1:T:3:ALA:HB1	1:T:554:VAL:HG22	2.03	0.40
1:T:157:ILE:HG12	1:T:496:ARG:HH22	1.87	0.40
1:U:171:LEU:O	1:U:173:GLY:N	2.53	0.40
1:V:401:ASN:HB3	1:V:410:LEU:HD21	2.04	0.40
1:W:12:LEU:HB3	1:e:509:ASN:ND2	2.36	0.40
1:W:86:ASN:O	1:W:90:GLN:HG2	2.22	0.40
1:W:231:VAL:HA	1:W:386:THR:HG22	2.03	0.40
1:W:483:LEU:O	1:W:487:THR:HG23	2.21	0.40
1:b:110:ASP:OD1	1:b:177:ASN:ND2	2.42	0.40
1:d:54:PHE:HE1	1:d:511:LEU:HD22	1.86	0.40
1:d:188:THR:HB	1:l:435:ASN:CG	2.46	0.40
1:f:178:GLY:HA2	1:f:468:LYS:NZ	2.36	0.40
1:f:246:PHE:O	1:f:371:GLY:HA2	2.22	0.40
1:f:385:ILE:HA	1:f:405:ASP:HB2	2.03	0.40
1:g:188:THR:O	1:g:192:VAL:HG23	2.21	0.40
1:h:164:ILE:HG23	1:h:169:LEU:HD21	2.02	0.40
1:h:342:ILE:HG22	1:h:344:GLY:H	1.86	0.40
1:i:93:ARG:NH1	1:i:477:ASP:OD1	2.55	0.40
1:j:74:LEU:HD13	1:j:132:PHE:CG	2.57	0.40
1:j:153:ASP:OD1	1:r:474:LYS:NZ	2.39	0.40
1:j:324:THR:HG23	1:j:327:ASP:H	1.86	0.40
1:k:304:PHE:CD2	1:k:317:SER:HB2	2.57	0.40
1:l:370:MET:HG2	1:l:376:VAL:HG23	2.03	0.40
1:l:525:THR:O	1:l:528:SER:OG	2.34	0.40
1:m:496:ARG:O	1:m:500:THR:HG23	2.21	0.40
1:n:159:LEU:HD23	1:n:493:VAL:HG11	2.03	0.40
1:r:144:PRO:HB3	1:r:160:ASN:HA	2.03	0.40
1:r:166:VAL:HG22	1:r:172:ASP:HA	2.03	0.40
1:r:279:GLU:OE1	1:r:288:PHE:N	2.54	0.40
1:t:88:HIS:CE1	1:t:119:ARG:HH11	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:37:ARG:NH2	1:u:518:ILE:O	2.54	0.40
1:v:229:VAL:HG22	1:v:239:TYR:HE1	1.86	0.40
1:v:311:LEU:HD12	1:v:336:ALA:HB3	2.03	0.40
1:v:405:ASP:OD1	1:v:405:ASP:N	2.50	0.40
1:A:486:LEU:O	1:A:490:LEU:HD23	2.22	0.40
1:A:523:TYR:CE1	1:m:5:ILE:HG12	2.55	0.40
1:B:383:SER:OG	1:B:405:ASP:O	2.40	0.40
1:C:97:VAL:HG22	1:C:473:LEU:HD11	2.03	0.40
1:D:25:LEU:HB2	1:D:533:ALA:HB1	2.03	0.40
1:E:403:TRP:HB3	1:E:409:GLU:N	2.36	0.40
1:I:231:VAL:HA	1:I:386:THR:HA	2.03	0.40
1:J:268:LYS:N	1:J:269:PRO:HD2	2.37	0.40
1:J:496:ARG:CG	1:o:122:ASP:HB2	2.51	0.40
1:K:120:LEU:HD11	1:K:174:PHE:HB3	2.03	0.40
1:K:281:SER:O	1:K:340:VAL:HB	2.21	0.40
1:K:496:ARG:NH2	1:p:118:GLN:OE1	2.54	0.40
1:L:239:TYR:HB3	1:L:246:PHE:HD2	1.86	0.40
1:L:268:LYS:N	1:L:269:PRO:HD2	2.36	0.40
1:L:279:GLU:O	1:L:343:GLY:N	2.48	0.40
1:M:497:LEU:O	1:M:500:THR:OG1	2.30	0.40
1:N:231:VAL:HG23	1:N:385:ILE:C	2.47	0.40
1:N:268:LYS:N	1:N:269:PRO:HD2	2.36	0.40
1:N:420:TYR:O	1:Z:396:THR:HG23	2.22	0.40
1:P:25:LEU:HB2	1:P:533:ALA:HB1	2.04	0.40
1:P:179:LYS:HE3	1:P:182:THR:HB	2.02	0.40
1:R:86:ASN:O	1:R:90:GLN:HG2	2.21	0.40
1:T:95:LEU:HA	1:T:95:LEU:HD23	1.80	0.40
1:U:389:ALA:HA	1:U:401:ASN:O	2.22	0.40
1:W:493:VAL:HG22	1:W:497:LEU:HD23	2.03	0.40
1:X:486:LEU:O	1:X:490:LEU:HD23	2.22	0.40
1:Z:157:ILE:HG23	1:Z:496:ARG:NH2	2.35	0.40
1:a:254:THR:OG1	1:a:260:VAL:HG12	2.22	0.40
1:b:37:ARG:HB2	1:b:521:ALA:HA	2.02	0.40
1:c:374:THR:O	1:c:378:THR:HG23	2.22	0.40
1:e:438:THR:HA	1:e:449:LYS:NZ	2.35	0.40
1:g:421:LYS:HD3	1:g:422:ILE:N	2.36	0.40
1:i:495:ASN:O	1:i:498:GLU:HG2	2.21	0.40
1:k:332:VAL:HG13	1:k:340:VAL:HG12	2.04	0.40
1:l:99:ALA:HB2	1:l:112:VAL:HG11	2.03	0.40
1:m:88:HIS:CE1	1:m:119:ARG:HH11	2.40	0.40
1:m:329:LEU:HA	1:m:332:VAL:HG12	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:555:LEU:HD13	1:m:558:LEU:HD21	2.02	0.40
1:n:112:VAL:HG12	1:n:176:VAL:HG11	2.04	0.40
1:n:332:VAL:C	1:n:334:THR:H	2.29	0.40
1:n:376:VAL:O	1:n:380:THR:HG22	2.22	0.40
1:o:229:VAL:HG22	1:o:239:TYR:HE1	1.87	0.40
1:o:416:PHE:CG	1:o:417:ASP:N	2.90	0.40
1:o:521:ALA:HB1	1:o:526:GLU:CD	2.46	0.40
1:q:110:ASP:OD1	1:q:177:ASN:ND2	2.54	0.40
1:u:388:ALA:O	1:u:403:TRP:HB2	2.22	0.40
1:v:239:TYR:HB3	1:v:246:PHE:CD2	2.56	0.40
1:v:438:THR:HG21	1:v:449:LYS:HD2	2.03	0.40
1:v:521:ALA:HB1	1:v:526:GLU:CD	2.46	0.40
1:A:385:ILE:HA	1:A:405:ASP:OD2	2.20	0.40
1:B:438:THR:OG1	1:B:449:LYS:HG3	2.22	0.40
1:C:101:ASN:OD1	1:C:102:GLY:N	2.55	0.40
1:C:171:LEU:HD22	1:C:174:PHE:CD1	2.57	0.40
1:D:445:ALA:HB1	1:D:448:ALA:HB2	2.03	0.40
1:E:231:VAL:HG23	1:E:385:ILE:C	2.46	0.40
1:G:229:VAL:HG22	1:G:239:TYR:HE1	1.86	0.40
1:H:316:ALA:HB3	1:u:312:THR:HB	2.02	0.40
1:I:41:ALA:N	1:Q:79:GLU:OE2	2.54	0.40
1:I:155:GLU:OE1	1:I:155:GLU:N	2.52	0.40
1:I:171:LEU:O	1:I:173:GLY:N	2.51	0.40
1:J:523:TYR:HD1	1:J:526:GLU:OE2	2.04	0.40
1:L:5:ILE:HG21	1:f:535:ILE:HB	2.03	0.40
1:M:157:ILE:HG23	1:M:496:ARG:HH21	1.87	0.40
1:N:413:ILE:HD13	1:N:413:ILE:HA	1.95	0.40
1:N:461:GLU:OE2	1:N:462:THR:N	2.55	0.40
1:O:157:ILE:HG23	1:O:496:ARG:NH2	2.37	0.40
1:O:268:LYS:N	1:O:269:PRO:HD2	2.36	0.40
1:P:171:LEU:O	1:P:173:GLY:N	2.53	0.40
1:R:81:ALA:O	1:R:85:VAL:HG23	2.21	0.40
1:S:99:ALA:HB2	1:S:112:VAL:HG11	2.02	0.40
1:V:25:LEU:HB2	1:V:533:ALA:HB1	2.04	0.40
1:V:256:VAL:HG12	1:V:259:ASP:H	1.85	0.40
1:X:171:LEU:O	1:X:173:GLY:N	2.53	0.40
1:Y:231:VAL:HA	1:Y:386:THR:HG22	2.02	0.40
1:Y:401:ASN:HB3	1:Y:410:LEU:HD21	2.03	0.40
1:Z:298:ILE:HG22	1:Z:299:GLY:N	2.37	0.40
1:b:85:VAL:O	1:b:89:LEU:HD23	2.22	0.40
1:b:355:LEU:HG	1:b:357:TYR:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:119:ARG:O	1:d:123:ILE:HG13	2.21	0.40
1:d:503:ASN:O	1:d:507:VAL:HG23	2.20	0.40
1:f:30:GLU:OE2	1:f:39:ASN:ND2	2.54	0.40
1:f:164:ILE:HD11	1:f:486:LEU:HD22	2.03	0.40
1:f:324:THR:HG23	1:f:327:ASP:H	1.87	0.40
1:f:485:LYS:HB2	1:f:485:LYS:HE3	1.77	0.40
1:h:410:LEU:HB3	1:h:413:ILE:HB	2.03	0.40
1:i:275:SER:HB3	1:i:278:TYR:OH	2.22	0.40
1:j:304:PHE:HA	1:j:323:ALA:HB2	2.02	0.40
1:j:385:ILE:HA	1:j:405:ASP:HB2	2.03	0.40
1:k:138:LEU:HD12	1:k:138:LEU:HA	1.80	0.40
1:k:165:SER:O	1:k:169:LEU:HD23	2.21	0.40
1:m:144:PRO:HB3	1:m:160:ASN:HA	2.02	0.40
1:m:225:ASP:OD1	1:m:226:GLY:N	2.51	0.40
1:m:410:LEU:HD23	1:m:413:ILE:HB	2.03	0.40
1:n:144:PRO:HB3	1:n:160:ASN:HA	2.03	0.40
1:q:282:THR:HA	1:q:340:VAL:HB	2.02	0.40
1:q:537:GLN:O	1:q:541:THR:HG23	2.22	0.40
1:r:288:PHE:HB3	1:r:290:VAL:HG13	2.03	0.40
1:u:229:VAL:HG22	1:u:239:TYR:HE1	1.86	0.40
1:v:355:LEU:HD12	1:v:359:ALA:O	2.21	0.40
1:B:129:GLN:HG3	1:a:155:GLU:HG3	2.04	0.40
1:B:279:GLU:HA	1:B:288:PHE:O	2.22	0.40
1:B:522:ASP:HB3	1:B:525:THR:HG22	2.03	0.40
1:C:256:VAL:HG12	1:C:259:ASP:H	1.86	0.40
1:C:268:LYS:O	1:C:271:SER:OG	2.36	0.40
1:D:88:HIS:CE1	1:D:119:ARG:HH11	2.39	0.40
1:E:405:ASP:OD1	1:E:405:ASP:N	2.53	0.40
1:F:268:LYS:N	1:F:269:PRO:HD2	2.36	0.40
1:G:14:ALA:HB3	1:G:544:LEU:HD13	2.03	0.40
1:G:355:LEU:HD12	1:G:359:ALA:O	2.21	0.40
1:G:534:GLN:O	1:G:538:GLN:HG3	2.22	0.40
1:J:153:ASP:OD1	1:R:473:LEU:HB2	2.22	0.40
1:J:275:SER:HB2	1:J:278:TYR:CZ	2.57	0.40
1:K:390:VAL:CG2	1:K:403:TRP:HH2	2.34	0.40
1:M:432:VAL:HA	1:M:439:ALA:HA	2.04	0.40
1:M:532:LYS:O	1:M:536:LEU:HD23	2.21	0.40
1:N:55:THR:HG22	1:N:515:ARG:HH11	1.86	0.40
1:N:532:LYS:O	1:N:536:LEU:HD23	2.21	0.40
1:O:91:ARG:HG2	1:O:119:ARG:NH2	2.37	0.40
1:O:228:THR:HA	1:O:238:THR:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:461:GLU:OE2	1:O:462:THR:N	2.54	0.40
1:Q:37:ARG:NH1	1:Q:44:ASP:OD2	2.48	0.40
1:Q:187:ALA:HB2	1:Q:452:VAL:HG23	2.03	0.40
1:R:256:VAL:HG12	1:R:259:ASP:H	1.85	0.40
1:R:513:SER:O	1:R:517:ARG:HD3	2.21	0.40
1:S:187:ALA:HB2	1:S:452:VAL:HG23	2.02	0.40
1:U:166:VAL:O	1:U:167:LYS:HB3	2.22	0.40
1:U:493:VAL:HG22	1:U:497:LEU:HD23	2.03	0.40
1:W:129:GLN:HG3	1:i:155:GLU:HG3	2.04	0.40
1:W:166:VAL:O	1:W:167:LYS:HB3	2.21	0.40
1:W:171:LEU:HB3	1:W:174:PHE:HB2	2.02	0.40
1:W:214:ALA:O	1:W:410:LEU:HG	2.21	0.40
1:X:231:VAL:HA	1:X:386:THR:HG22	2.04	0.40
1:c:275:SER:HB3	1:c:278:TYR:OH	2.22	0.40
1:f:185:ARG:NH2	1:f:191:ASP:OD2	2.55	0.40
1:g:254:THR:OG1	1:g:260:VAL:HG12	2.22	0.40
1:h:461:GLU:HG3	1:h:463:THR:H	1.86	0.40
1:j:113:GLN:NE2	1:j:175:ASN:HA	2.37	0.40
1:k:355:LEU:HG	1:k:357:TYR:H	1.85	0.40
1:k:421:LYS:HD3	1:k:422:ILE:H	1.86	0.40
1:l:239:TYR:HB3	1:l:246:PHE:CD2	2.56	0.40
1:m:441:GLN:HB3	1:m:448:ALA:H	1.86	0.40
1:n:274:ILE:HG12	1:n:293:ALA:HA	2.03	0.40
1:o:112:VAL:HG12	1:o:176:VAL:HG11	2.04	0.40
1:o:333:GLY:HA2	1:o:337:ASN:O	2.21	0.40
1:o:516:SER:HA	1:o:520:ASP:OD1	2.22	0.40
1:p:355:LEU:N	1:p:361:ALA:HB2	2.37	0.40
1:q:355:LEU:N	1:q:361:ALA:HB2	2.37	0.40
1:s:231:VAL:HG23	1:s:385:ILE:C	2.46	0.40
1:u:141:SER:O	1:u:141:SER:OG	2.32	0.40
1:u:207:ALA:HB3	1:u:428:GLU:HG3	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	555/559 (99%)	490 (88%)	64 (12%)	1 (0%)	43	72
1	B	555/559 (99%)	507 (91%)	47 (8%)	1 (0%)	43	72
1	C	555/559 (99%)	509 (92%)	45 (8%)	1 (0%)	43	72
1	D	555/559 (99%)	503 (91%)	51 (9%)	1 (0%)	43	72
1	E	555/559 (99%)	492 (89%)	62 (11%)	1 (0%)	43	72
1	F	555/559 (99%)	492 (89%)	62 (11%)	1 (0%)	43	72
1	G	555/559 (99%)	489 (88%)	65 (12%)	1 (0%)	43	72
1	H	555/559 (99%)	490 (88%)	64 (12%)	1 (0%)	43	72
1	I	555/559 (99%)	489 (88%)	65 (12%)	1 (0%)	43	72
1	J	555/559 (99%)	492 (89%)	62 (11%)	1 (0%)	43	72
1	K	555/559 (99%)	489 (88%)	65 (12%)	1 (0%)	43	72
1	L	555/559 (99%)	491 (88%)	63 (11%)	1 (0%)	43	72
1	M	555/559 (99%)	494 (89%)	60 (11%)	1 (0%)	43	72
1	N	555/559 (99%)	496 (89%)	58 (10%)	1 (0%)	43	72
1	O	555/559 (99%)	494 (89%)	60 (11%)	1 (0%)	43	72
1	P	555/559 (99%)	507 (91%)	47 (8%)	1 (0%)	43	72
1	Q	555/559 (99%)	503 (91%)	51 (9%)	1 (0%)	43	72
1	R	555/559 (99%)	506 (91%)	48 (9%)	1 (0%)	43	72
1	S	555/559 (99%)	501 (90%)	53 (10%)	1 (0%)	43	72
1	T	555/559 (99%)	505 (91%)	49 (9%)	1 (0%)	43	72
1	U	555/559 (99%)	507 (91%)	47 (8%)	1 (0%)	43	72
1	V	555/559 (99%)	507 (91%)	47 (8%)	1 (0%)	43	72
1	W	555/559 (99%)	508 (92%)	46 (8%)	1 (0%)	43	72
1	X	555/559 (99%)	510 (92%)	44 (8%)	1 (0%)	43	72
1	Y	555/559 (99%)	508 (92%)	46 (8%)	1 (0%)	43	72
1	Z	555/559 (99%)	510 (92%)	44 (8%)	1 (0%)	43	72
1	a	555/559 (99%)	506 (91%)	48 (9%)	1 (0%)	43	72
1	b	555/559 (99%)	507 (91%)	47 (8%)	1 (0%)	43	72
1	c	555/559 (99%)	509 (92%)	45 (8%)	1 (0%)	43	72
1	d	555/559 (99%)	507 (91%)	47 (8%)	1 (0%)	43	72

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	e	555/559 (99%)	509 (92%)	45 (8%)	1 (0%)	43	72
1	f	555/559 (99%)	505 (91%)	49 (9%)	1 (0%)	43	72
1	g	555/559 (99%)	508 (92%)	46 (8%)	1 (0%)	43	72
1	h	555/559 (99%)	507 (91%)	47 (8%)	1 (0%)	43	72
1	i	555/559 (99%)	509 (92%)	45 (8%)	1 (0%)	43	72
1	j	555/559 (99%)	507 (91%)	47 (8%)	1 (0%)	43	72
1	k	555/559 (99%)	508 (92%)	46 (8%)	1 (0%)	43	72
1	l	555/559 (99%)	499 (90%)	56 (10%)	0	100	100
1	m	555/559 (99%)	503 (91%)	51 (9%)	1 (0%)	43	72
1	n	555/559 (99%)	502 (90%)	52 (9%)	1 (0%)	43	72
1	o	555/559 (99%)	500 (90%)	54 (10%)	1 (0%)	43	72
1	p	555/559 (99%)	500 (90%)	54 (10%)	1 (0%)	43	72
1	q	555/559 (99%)	499 (90%)	55 (10%)	1 (0%)	43	72
1	r	555/559 (99%)	495 (89%)	59 (11%)	1 (0%)	43	72
1	s	555/559 (99%)	499 (90%)	55 (10%)	1 (0%)	43	72
1	t	555/559 (99%)	499 (90%)	55 (10%)	1 (0%)	43	72
1	u	555/559 (99%)	502 (90%)	52 (9%)	1 (0%)	43	72
1	v	555/559 (99%)	502 (90%)	52 (9%)	1 (0%)	43	72
All	All	26640/26832 (99%)	24071 (90%)	2522 (10%)	47 (0%)	44	72

All (47) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	41	ALA
1	B	41	ALA
1	C	41	ALA
1	E	41	ALA
1	F	41	ALA
1	G	41	ALA
1	H	41	ALA
1	I	41	ALA
1	J	41	ALA
1	K	41	ALA
1	L	41	ALA
1	M	41	ALA
1	N	41	ALA

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Mol	Chain	Res	Type
1	O	41	ALA
1	P	41	ALA
1	Q	41	ALA
1	R	41	ALA
1	S	41	ALA
1	T	41	ALA
1	U	41	ALA
1	V	41	ALA
1	W	41	ALA
1	X	41	ALA
1	Y	41	ALA
1	Z	41	ALA
1	a	41	ALA
1	b	41	ALA
1	c	41	ALA
1	d	41	ALA
1	e	41	ALA
1	f	41	ALA
1	g	41	ALA
1	h	41	ALA
1	i	41	ALA
1	j	41	ALA
1	k	41	ALA
1	m	41	ALA
1	n	41	ALA
1	o	41	ALA
1	p	41	ALA
1	q	41	ALA
1	r	41	ALA
1	s	41	ALA
1	t	41	ALA
1	u	41	ALA
1	v	41	ALA
1	D	41	ALA

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	435/437 (100%)	435 (100%)	0	100	100
1	B	435/437 (100%)	435 (100%)	0	100	100
1	C	435/437 (100%)	435 (100%)	0	100	100
1	D	435/437 (100%)	434 (100%)	1 (0%)	87	86
1	E	435/437 (100%)	435 (100%)	0	100	100
1	F	435/437 (100%)	435 (100%)	0	100	100
1	G	435/437 (100%)	435 (100%)	0	100	100
1	H	435/437 (100%)	435 (100%)	0	100	100
1	I	435/437 (100%)	435 (100%)	0	100	100
1	J	435/437 (100%)	435 (100%)	0	100	100
1	K	435/437 (100%)	435 (100%)	0	100	100
1	L	435/437 (100%)	435 (100%)	0	100	100
1	M	435/437 (100%)	434 (100%)	1 (0%)	87	86
1	N	435/437 (100%)	435 (100%)	0	100	100
1	O	435/437 (100%)	435 (100%)	0	100	100
1	P	435/437 (100%)	435 (100%)	0	100	100
1	Q	435/437 (100%)	435 (100%)	0	100	100
1	R	435/437 (100%)	435 (100%)	0	100	100
1	S	435/437 (100%)	435 (100%)	0	100	100
1	T	435/437 (100%)	435 (100%)	0	100	100
1	U	435/437 (100%)	435 (100%)	0	100	100
1	V	435/437 (100%)	435 (100%)	0	100	100
1	W	435/437 (100%)	435 (100%)	0	100	100
1	X	435/437 (100%)	435 (100%)	0	100	100
1	Y	435/437 (100%)	435 (100%)	0	100	100
1	Z	435/437 (100%)	435 (100%)	0	100	100
1	a	435/437 (100%)	433 (100%)	2 (0%)	81	80
1	b	435/437 (100%)	434 (100%)	1 (0%)	87	86
1	c	435/437 (100%)	434 (100%)	1 (0%)	87	86
1	d	435/437 (100%)	435 (100%)	0	100	100
1	e	435/437 (100%)	435 (100%)	0	100	100
1	f	435/437 (100%)	435 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	g	435/437 (100%)	435 (100%)	0	100	100
1	h	435/437 (100%)	435 (100%)	0	100	100
1	i	435/437 (100%)	435 (100%)	0	100	100
1	j	435/437 (100%)	434 (100%)	1 (0%)	87	86
1	k	435/437 (100%)	435 (100%)	0	100	100
1	l	435/437 (100%)	434 (100%)	1 (0%)	87	86
1	m	435/437 (100%)	434 (100%)	1 (0%)	87	86
1	n	435/437 (100%)	434 (100%)	1 (0%)	87	86
1	o	435/437 (100%)	434 (100%)	1 (0%)	87	86
1	p	435/437 (100%)	434 (100%)	1 (0%)	87	86
1	q	435/437 (100%)	434 (100%)	1 (0%)	87	86
1	r	435/437 (100%)	435 (100%)	0	100	100
1	s	435/437 (100%)	434 (100%)	1 (0%)	87	86
1	t	435/437 (100%)	435 (100%)	0	100	100
1	u	435/437 (100%)	435 (100%)	0	100	100
1	v	435/437 (100%)	434 (100%)	1 (0%)	87	86
All	All	20880/20976 (100%)	20865 (100%)	15 (0%)	87	88

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	39	ASN
1	M	118	GLN
1	a	306	ASN
1	a	314	ASN
1	b	314	ASN
1	c	314	ASN
1	j	314	ASN
1	l	39	ASN
1	m	39	ASN
1	n	39	ASN
1	o	39	ASN
1	p	39	ASN
1	q	195	GLN
1	s	39	ASN
1	v	39	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (328) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	57	ASN
1	A	63	GLN
1	A	117	ASN
1	A	133	ASN
1	A	177	ASN
1	A	337	ASN
1	A	509	ASN
1	B	86	ASN
1	B	195	GLN
1	B	265	ASN
1	B	314	ASN
1	B	509	ASN
1	B	538	GLN
1	C	22	GLN
1	C	57	ASN
1	C	195	GLN
1	C	314	ASN
1	C	441	GLN
1	D	15	GLN
1	D	39	ASN
1	D	106	GLN
1	D	184	ASN
1	D	195	GLN
1	D	337	ASN
1	D	510	ASN
1	E	57	ASN
1	E	63	GLN
1	E	117	ASN
1	E	133	ASN
1	E	177	ASN
1	E	509	ASN
1	F	117	ASN
1	F	133	ASN
1	F	177	ASN
1	F	314	ASN
1	F	337	ASN
1	F	509	ASN
1	F	510	ASN
1	F	552	GLN
1	G	6	ASN
1	G	117	ASN

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Mol	Chain	Res	Type
1	G	177	ASN
1	G	200	GLN
1	G	337	ASN
1	G	509	ASN
1	G	510	ASN
1	G	519	GLN
1	G	552	GLN
1	H	6	ASN
1	H	117	ASN
1	H	177	ASN
1	H	184	ASN
1	H	509	ASN
1	H	510	ASN
1	H	552	GLN
1	I	6	ASN
1	I	117	ASN
1	I	200	GLN
1	I	314	ASN
1	I	509	ASN
1	I	510	ASN
1	J	6	ASN
1	J	117	ASN
1	J	177	ASN
1	J	314	ASN
1	J	509	ASN
1	J	510	ASN
1	J	552	GLN
1	K	6	ASN
1	K	117	ASN
1	K	177	ASN
1	K	200	GLN
1	K	441	GLN
1	K	509	ASN
1	K	510	ASN
1	K	519	GLN
1	L	6	ASN
1	L	57	ASN
1	L	117	ASN
1	L	177	ASN
1	L	503	ASN
1	L	509	ASN
1	L	510	ASN

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Mol	Chain	Res	Type
1	L	519	GLN
1	M	6	ASN
1	M	57	ASN
1	M	117	ASN
1	M	118	GLN
1	M	160	ASN
1	M	509	ASN
1	M	510	ASN
1	M	529	ASN
1	M	548	ASN
1	N	6	ASN
1	N	117	ASN
1	N	314	ASN
1	N	510	ASN
1	O	6	ASN
1	O	117	ASN
1	O	177	ASN
1	O	337	ASN
1	O	510	ASN
1	P	63	GLN
1	P	86	ASN
1	P	195	GLN
1	P	314	ASN
1	P	503	ASN
1	P	509	ASN
1	P	510	ASN
1	Q	8	ASN
1	Q	63	GLN
1	Q	86	ASN
1	Q	160	ASN
1	Q	195	GLN
1	Q	314	ASN
1	Q	503	ASN
1	Q	509	ASN
1	Q	510	ASN
1	R	8	ASN
1	R	86	ASN
1	R	314	ASN
1	R	509	ASN
1	R	510	ASN
1	S	86	ASN
1	S	265	ASN

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Mol	Chain	Res	Type
1	S	509	ASN
1	T	86	ASN
1	T	133	ASN
1	T	265	ASN
1	T	314	ASN
1	T	509	ASN
1	U	86	ASN
1	U	314	ASN
1	U	503	ASN
1	U	509	ASN
1	V	52	ASN
1	V	86	ASN
1	V	195	GLN
1	V	265	ASN
1	V	306	ASN
1	V	503	ASN
1	V	509	ASN
1	W	8	ASN
1	W	86	ASN
1	W	306	ASN
1	W	314	ASN
1	W	503	ASN
1	W	509	ASN
1	W	510	ASN
1	X	86	ASN
1	X	265	ASN
1	X	503	ASN
1	X	510	ASN
1	Y	52	ASN
1	Y	86	ASN
1	Y	133	ASN
1	Y	265	ASN
1	Y	314	ASN
1	Y	503	ASN
1	Y	510	ASN
1	Z	86	ASN
1	Z	133	ASN
1	Z	195	GLN
1	Z	306	ASN
1	Z	503	ASN
1	Z	510	ASN
1	a	15	GLN

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Mol	Chain	Res	Type
1	a	16	ASN
1	a	22	GLN
1	a	57	ASN
1	a	117	ASN
1	a	306	ASN
1	a	349	HIS
1	a	441	GLN
1	a	548	ASN
1	b	15	GLN
1	b	57	ASN
1	b	63	GLN
1	b	195	GLN
1	b	441	GLN
1	b	537	GLN
1	b	548	ASN
1	c	22	GLN
1	c	57	ASN
1	c	314	ASN
1	c	349	HIS
1	c	441	GLN
1	c	548	ASN
1	d	16	ASN
1	d	57	ASN
1	d	86	ASN
1	d	90	GLN
1	d	314	ASN
1	d	349	HIS
1	d	441	GLN
1	d	548	ASN
1	e	15	GLN
1	e	16	ASN
1	e	117	ASN
1	e	349	HIS
1	e	441	GLN
1	e	548	ASN
1	f	16	ASN
1	f	22	GLN
1	f	57	ASN
1	f	117	ASN
1	f	195	GLN
1	f	349	HIS
1	f	441	GLN

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Mol	Chain	Res	Type
1	g	16	ASN
1	g	57	ASN
1	g	86	ASN
1	g	90	GLN
1	g	349	HIS
1	g	441	GLN
1	g	503	ASN
1	h	15	GLN
1	h	16	ASN
1	h	22	GLN
1	h	57	ASN
1	h	183	GLN
1	h	195	GLN
1	h	349	HIS
1	h	548	ASN
1	i	15	GLN
1	i	16	ASN
1	i	57	ASN
1	i	86	ASN
1	i	441	GLN
1	i	548	ASN
1	j	15	GLN
1	j	16	ASN
1	j	86	ASN
1	j	441	GLN
1	j	548	ASN
1	k	15	GLN
1	k	16	ASN
1	k	57	ASN
1	k	86	ASN
1	k	441	GLN
1	k	548	ASN
1	l	15	GLN
1	l	39	ASN
1	l	133	ASN
1	l	200	GLN
1	l	337	ASN
1	l	510	ASN
1	m	6	ASN
1	m	16	ASN
1	m	17	ASN
1	m	133	ASN

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Mol	Chain	Res	Type
1	m	195	GLN
1	m	200	GLN
1	m	494	GLN
1	m	510	ASN
1	n	15	GLN
1	n	16	ASN
1	n	133	ASN
1	n	184	ASN
1	n	200	GLN
1	n	494	GLN
1	n	510	ASN
1	o	15	GLN
1	o	16	ASN
1	o	17	ASN
1	o	152	ASN
1	o	195	GLN
1	o	200	GLN
1	o	337	ASN
1	o	494	GLN
1	o	510	ASN
1	p	16	ASN
1	p	17	ASN
1	p	184	ASN
1	p	195	GLN
1	p	200	GLN
1	p	510	ASN
1	p	548	ASN
1	q	15	GLN
1	q	16	ASN
1	q	17	ASN
1	q	200	GLN
1	q	337	ASN
1	q	494	GLN
1	q	510	ASN
1	r	15	GLN
1	r	16	ASN
1	r	133	ASN
1	r	200	GLN
1	r	306	ASN
1	r	337	ASN
1	r	510	ASN
1	s	15	GLN

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Mol	Chain	Res	Type
1	s	16	ASN
1	s	133	ASN
1	s	195	GLN
1	s	200	GLN
1	s	314	ASN
1	s	510	ASN
1	t	6	ASN
1	t	15	GLN
1	t	16	ASN
1	t	17	ASN
1	t	133	ASN
1	t	184	ASN
1	t	195	GLN
1	t	200	GLN
1	t	337	ASN
1	t	494	GLN
1	t	510	ASN
1	u	15	GLN
1	u	16	ASN
1	u	17	ASN
1	u	195	GLN
1	u	200	GLN
1	u	314	ASN
1	u	510	ASN
1	v	15	GLN
1	v	16	ASN
1	v	17	ASN
1	v	160	ASN
1	v	184	ASN
1	v	195	GLN
1	v	200	GLN
1	v	306	ASN
1	v	337	ASN
1	v	510	ASN
1	v	548	ASN

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 oligosaccharides 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](#)

There are no chain breaks in this entry.

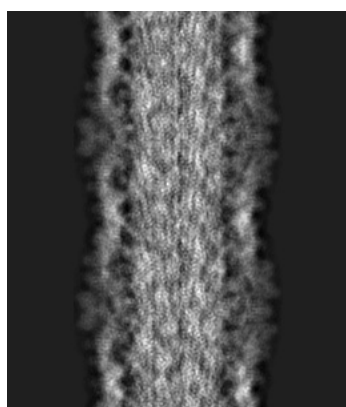
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-25382. These allow visual inspection of the internal detail of the map and identification of artifacts.

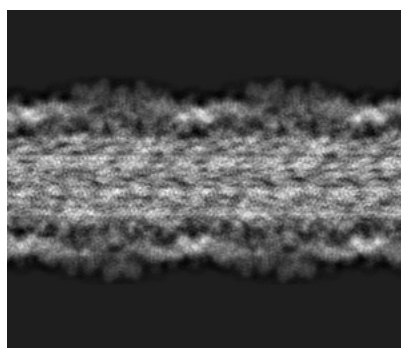
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

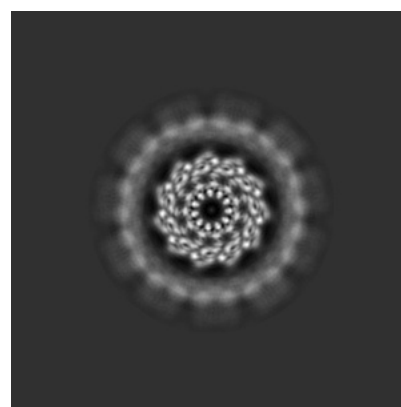
6.1.1 Primary map



X



Y

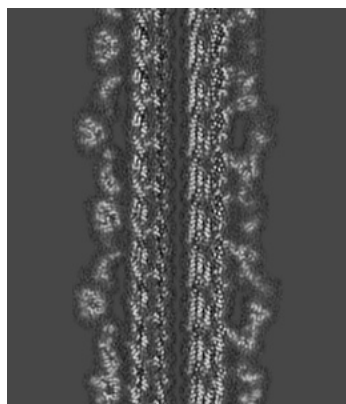


Z

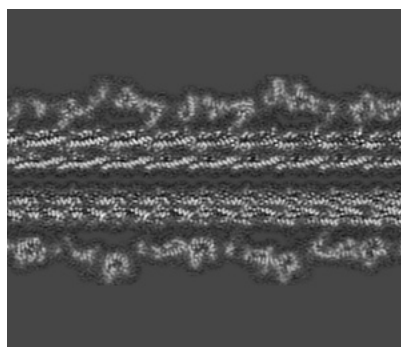
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

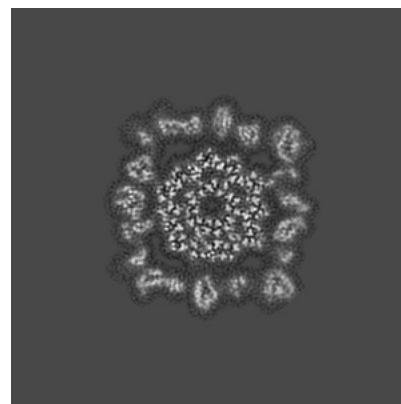
6.2.1 Primary map



X Index: 192



Y Index: 192

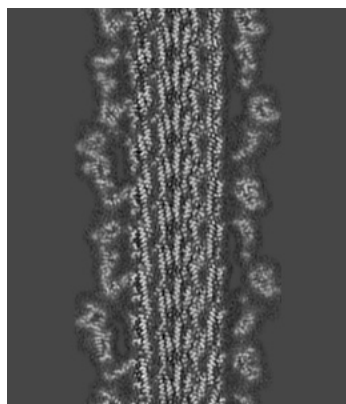


Z Index: 225

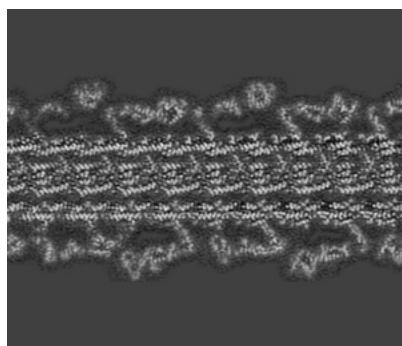
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

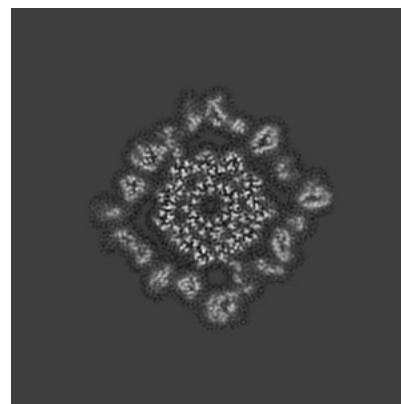
6.3.1 Primary map



X Index: 209



Y Index: 214

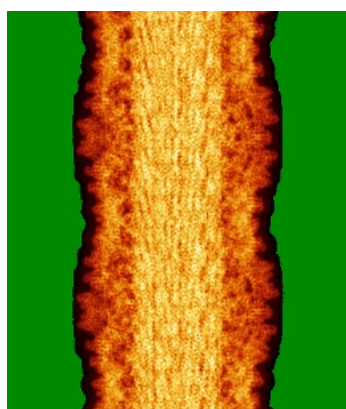


Z Index: 106

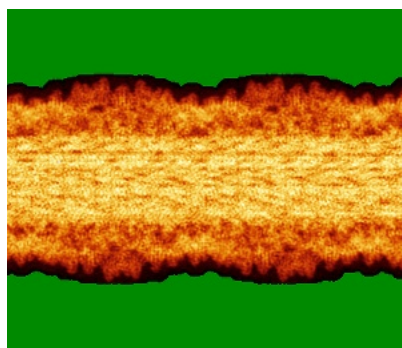
The images above show the largest variance slices of the map in three orthogonal directions.

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

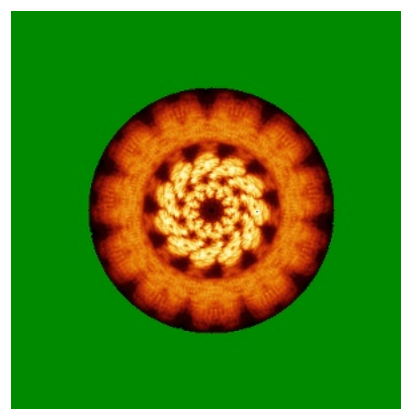
6.4.1 Primary map



X



Y

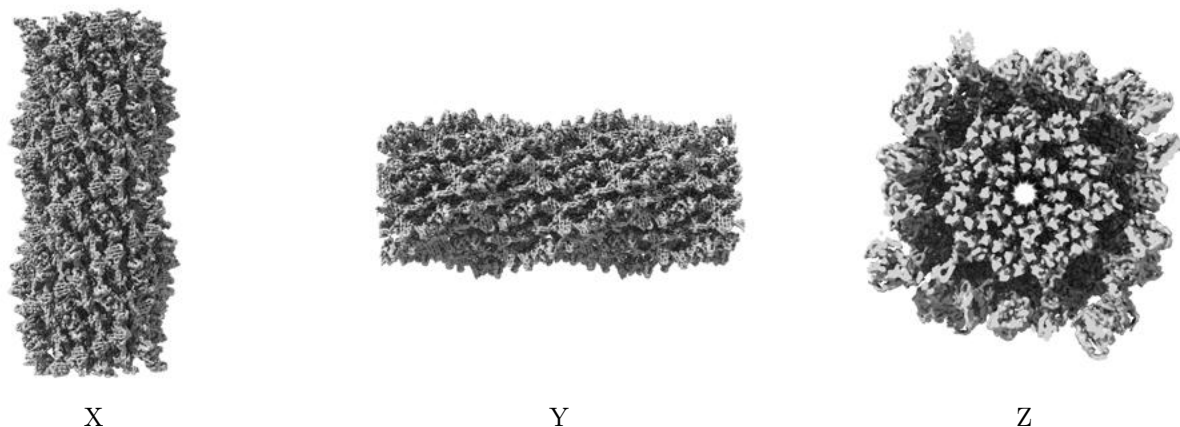


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.0214. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

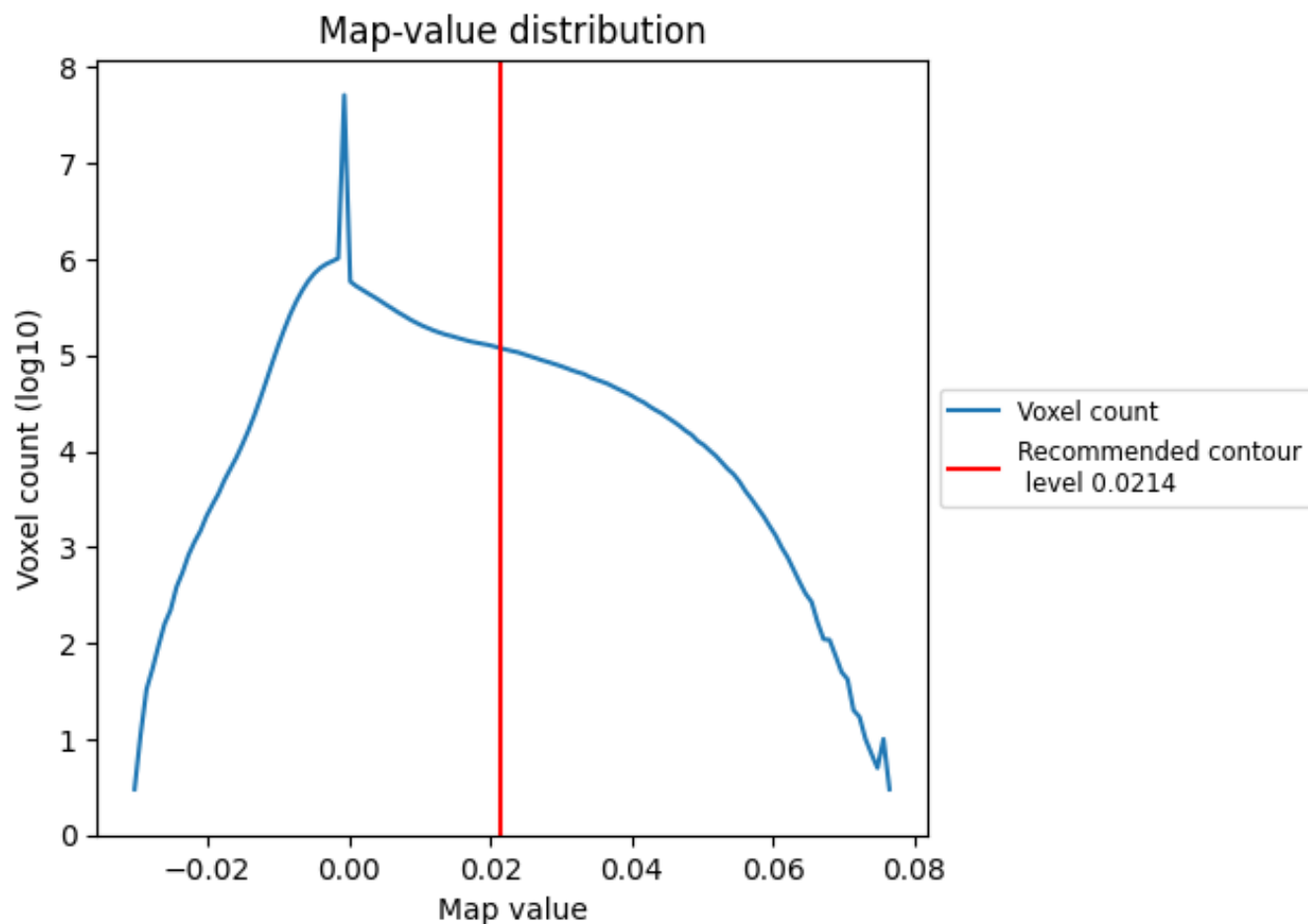
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

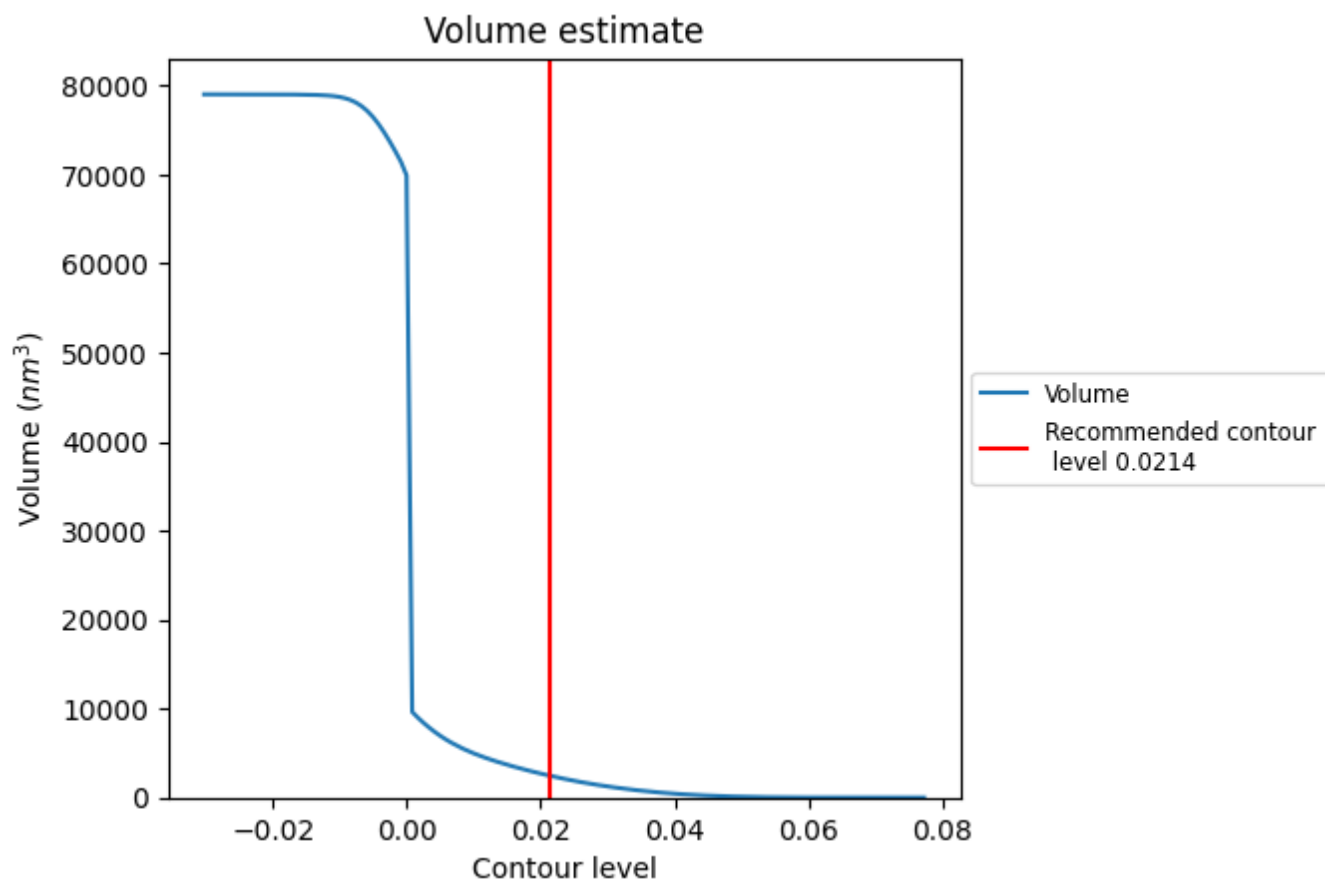
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2449 nm³; this corresponds to an approximate mass of 2212 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](#)

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.

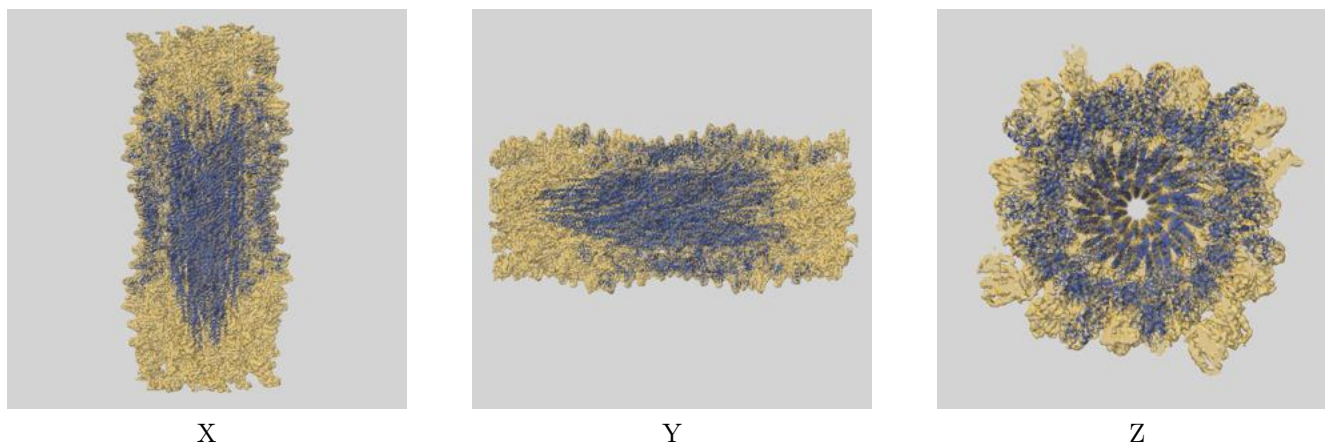
8 Fourier-Shell correlation ⓘ

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

9 Map-model fit [i](#)

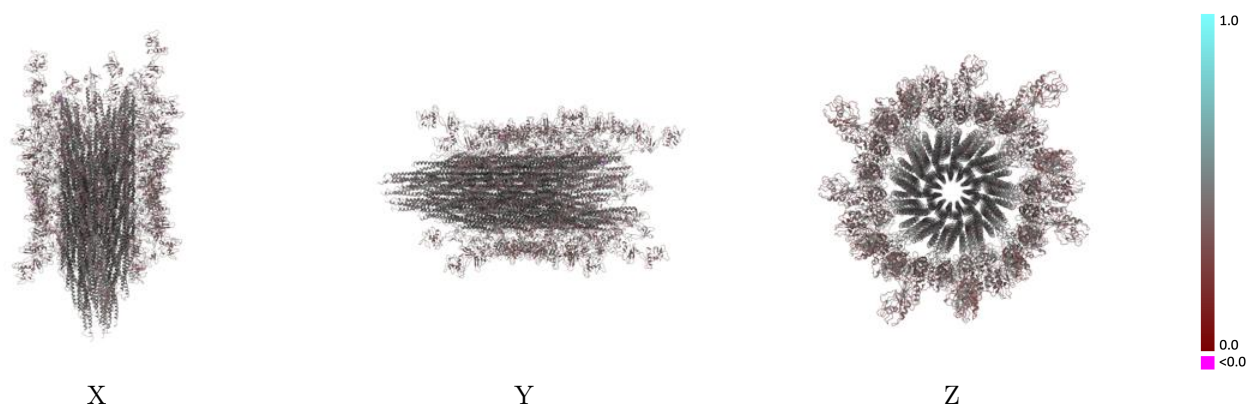
This section contains information regarding the fit between EMDB map EMD-25382 and PDB model 7SQD. Per-residue inclusion information can be found in section 3 on page 8.

9.1 Map-model overlay [i](#)



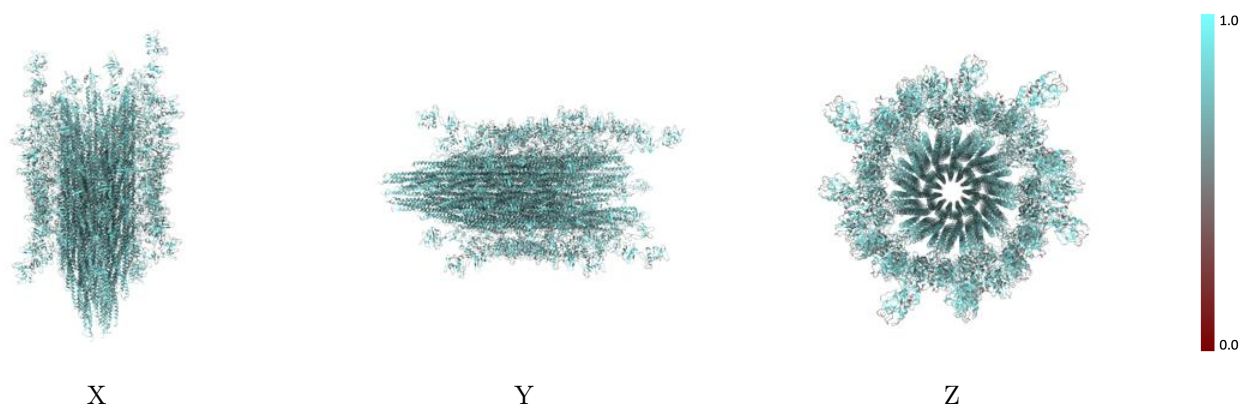
The images above show the 3D surface view of the map at the recommended contour level 0.0214 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



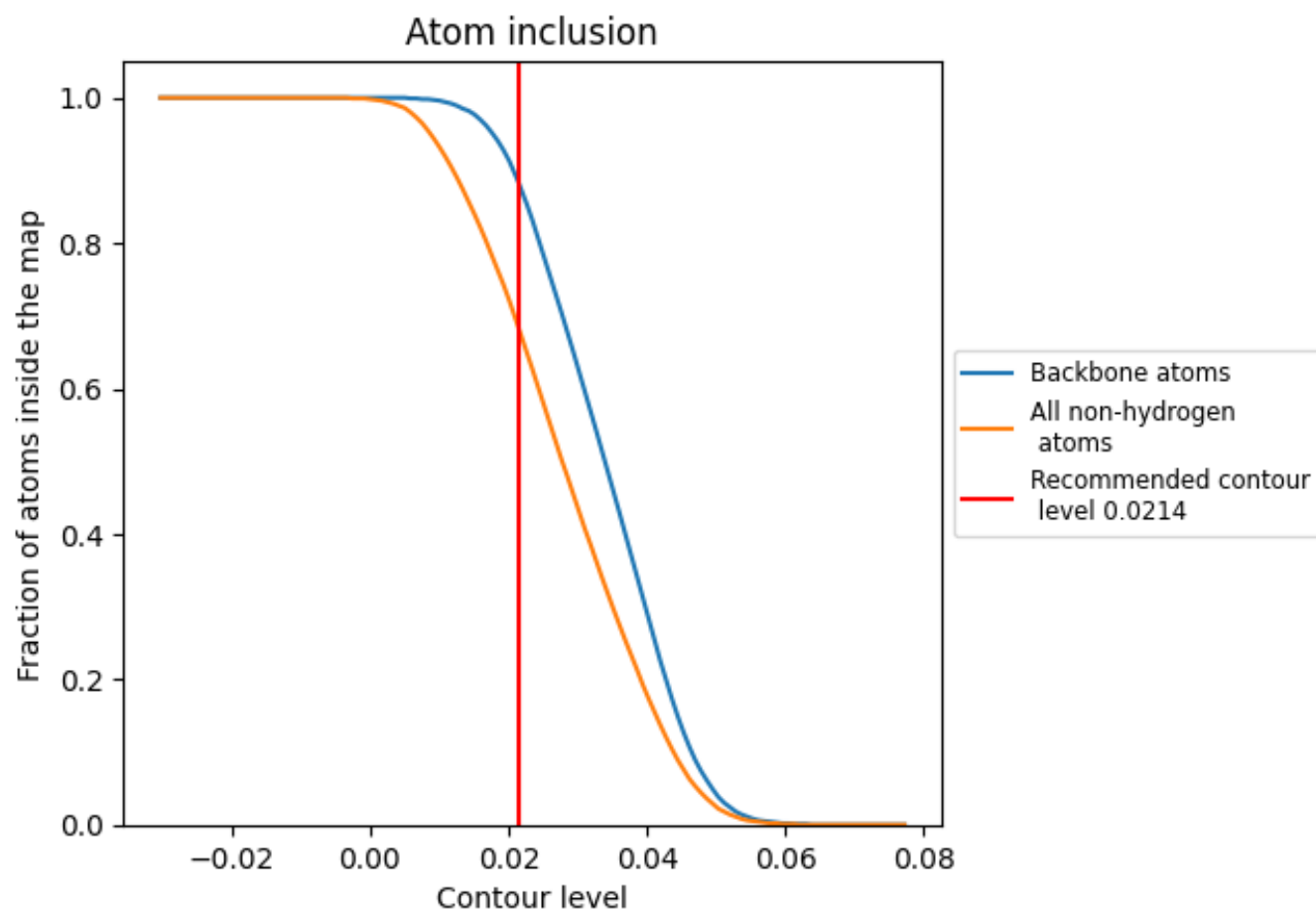
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0214).

9.4 Atom inclusion [i](#)



At the recommended contour level, 88% of all backbone atoms, 69% 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 (0.0214) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6860	 0.4150
A	 0.6840	 0.4160
B	 0.6890	 0.4180
C	 0.6890	 0.4120
D	 0.6910	 0.4170
E	 0.6810	 0.4140
F	 0.6850	 0.4130
G	 0.6870	 0.4120
H	 0.6810	 0.4130
I	 0.6830	 0.4140
J	 0.6810	 0.4130
K	 0.6820	 0.4130
L	 0.6800	 0.4120
M	 0.6810	 0.4150
N	 0.6810	 0.4140
O	 0.6820	 0.4140
P	 0.6890	 0.4170
Q	 0.6830	 0.4170
R	 0.6830	 0.4170
S	 0.6860	 0.4170
T	 0.6830	 0.4190
U	 0.6860	 0.4170
V	 0.6820	 0.4140
W	 0.6870	 0.4180
X	 0.6840	 0.4170
Y	 0.6860	 0.4180
Z	 0.6860	 0.4190
a	 0.6820	 0.4120
b	 0.6830	 0.4110
c	 0.6830	 0.4130
d	 0.6840	 0.4120
e	 0.6860	 0.4140
f	 0.6860	 0.4110
g	 0.6840	 0.4150
h	 0.6880	 0.4130



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Chain	Atom inclusion	Q-score
i	 0.6830	 0.4110
j	 0.6820	 0.4110
k	 0.6840	 0.4110
l	 0.6910	 0.4160
m	 0.6930	 0.4160
n	 0.6900	 0.4170
o	 0.6930	 0.4180
p	 0.6880	 0.4170
q	 0.6890	 0.4150
r	 0.6890	 0.4140
s	 0.6930	 0.4160
t	 0.6940	 0.4170
u	 0.6930	 0.4160
v	 0.6860	 0.4150