Full wwPDB EM Validation Report

Mar 10, 2026 – 01:50 AM UTC

PDB ID	:	8XOU / pdb_00008xou
EMDB ID	:	EMD-38541
Title	:	Prohead portal vertex of bacteriophage lambda
Authors	:	Wang, J.W.; Gu, Z.W.
Deposited on	:	2024-01-02
Resolution	:	5.58 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:

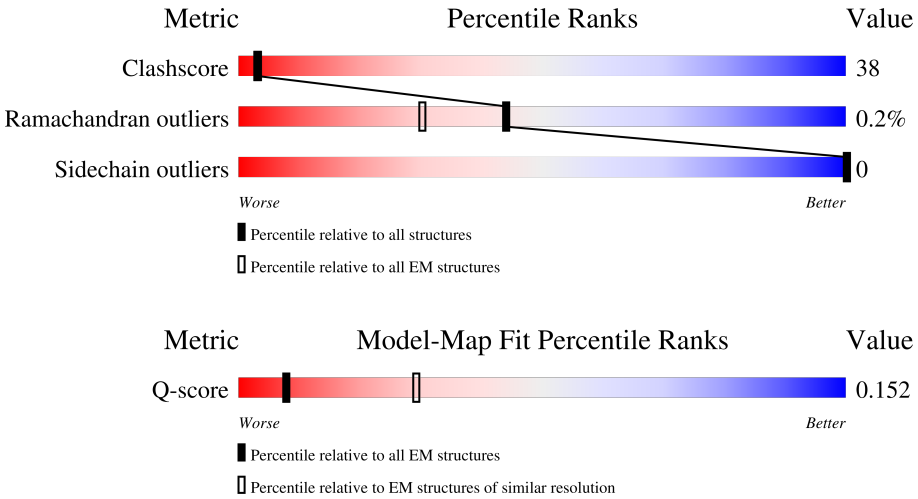
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & 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 5.58 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	475 (5.08 - 6.08)

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

Mol	Chain	Length	Quality of chain
1	B	533	48% 45% 43% • 11%
1	B1	533	51% 45% 43% • 11%
1	B2	533	51% 45% 43% • 11%
1	B3	533	46% 45% 43% • 11%

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Mol	Chain	Length	Quality of chain
1	B4	533	40% 45% 43% 11%
1	B5	533	41% 46% 42% 11%
1	b	533	50% 46% 42% 11%
1	b1	533	52% 45% 43% 11%
1	b2	533	51% 45% 43% 11%
1	b3	533	44% 46% 42% 11%
1	b4	533	39% 45% 43% 11%
1	b5	533	43% 46% 42% 11%
2	A0	341	20% 35% 63%
2	A1	341	17% 35% 63%
2	A2	341	20% 37% 61%
2	A3	341	20% 35% 63%
2	A4	341	20% 36% 62%
2	C0	341	19% 37% 61%
2	C1	341	21% 38% 60%
2	C2	341	21% 35% 62%
2	C3	341	26% 38% 60%
2	C4	341	23% 37% 61%
2	D0	341	26% 36% 62%
2	D1	341	27% 37% 61%
2	D2	341	28% 37% 61%
2	D3	341	26% 37% 61%
2	D4	341	21% 37% 61%
2	E0	341	29% 37% 61%
2	E1	341	27% 38% 60%

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Mol	Chain	Length	Quality of chain
2	E2	341	30% 38% 60%
2	E3	341	28% 38% 60%
2	E4	341	28% 38% 60%
2	F0	341	27% 38% 60%
2	F1	341	23% 38% 60%
2	F2	341	26% 38% 60%
2	F3	341	24% 38% 60%
2	F4	341	29% 39% 59%
2	G0	341	19% 37% 61%
2	G1	341	17% 37% 61%
2	G2	341	19% 37% 61%
2	G3	341	21% 36% 62%
2	G4	341	25% 36% 62%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 123582 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 Portal protein B.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	474	Total 3711	C 2319	N 672	O 697	S 23	0	0
1	b	474	Total 3711	C 2319	N 672	O 697	S 23	0	0
1	B1	474	Total 3711	C 2319	N 672	O 697	S 23	0	0
1	b1	474	Total 3711	C 2319	N 672	O 697	S 23	0	0
1	B2	474	Total 3711	C 2319	N 672	O 697	S 23	0	0
1	b2	474	Total 3711	C 2319	N 672	O 697	S 23	0	0
1	B3	474	Total 3711	C 2319	N 672	O 697	S 23	0	0
1	b3	474	Total 3711	C 2319	N 672	O 697	S 23	0	0
1	B4	474	Total 3711	C 2319	N 672	O 697	S 23	0	0
1	b4	474	Total 3711	C 2319	N 672	O 697	S 23	0	0
1	B5	474	Total 3711	C 2319	N 672	O 697	S 23	0	0
1	b5	474	Total 3711	C 2319	N 672	O 697	S 23	0	0

- Molecule 2 is a protein called Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A0	335	Total 2635	C 1660	N 453	O 510	S 12	0	0
2	G0	335	Total 2635	C 1660	N 453	O 510	S 12	0	0
2	C0	335	Total 2635	C 1660	N 453	O 510	S 12	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	D0	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	E0	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	F0	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	A1	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	G1	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	C1	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	D1	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	E1	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	F1	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	A2	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	G2	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	C2	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	D2	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	E2	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	F2	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	A3	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	G3	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	C3	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	D3	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	E3	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	F3	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		

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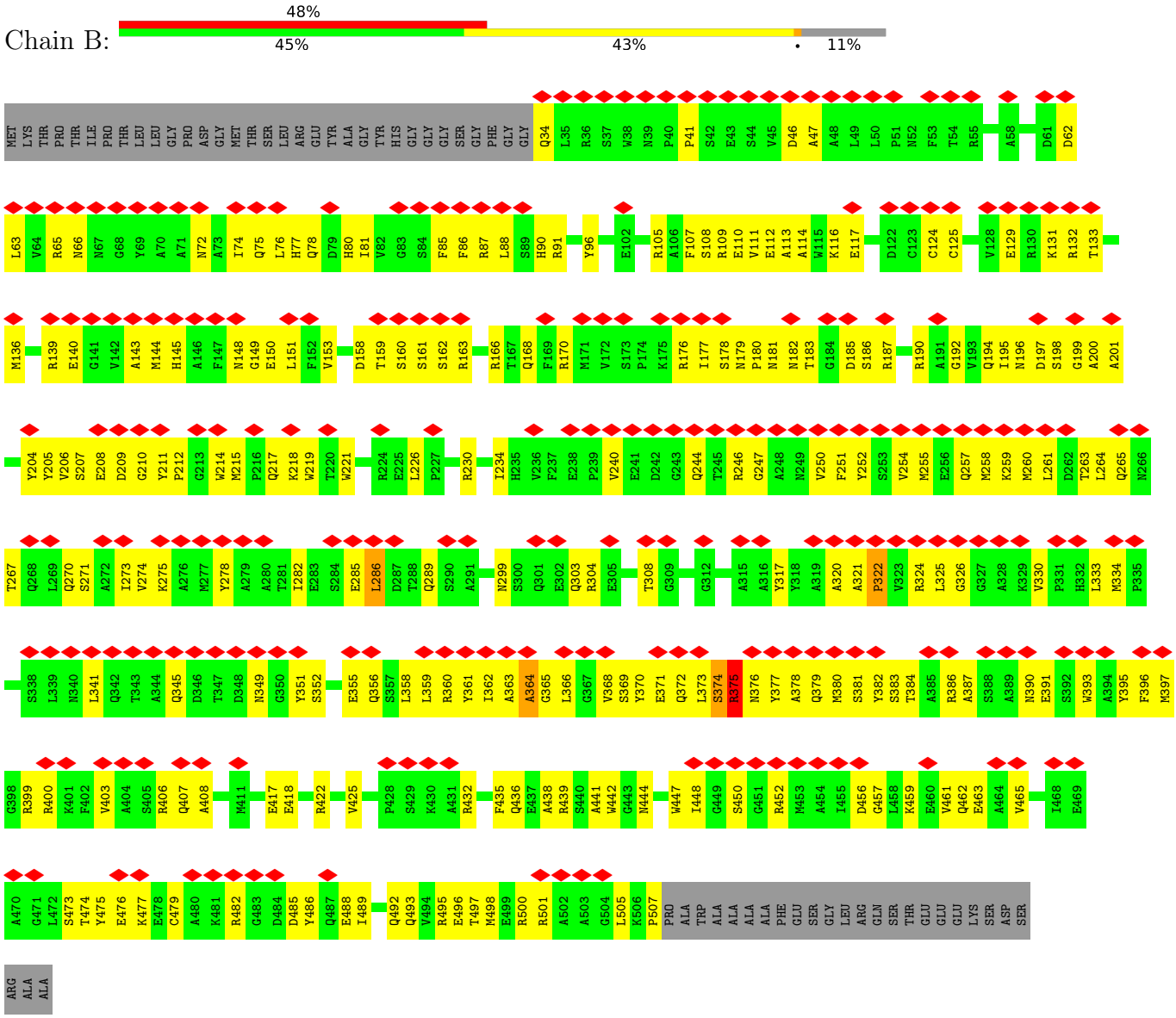
Mol	Chain	Residues	Atoms					AltConf	Trace
2	A4	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	G4	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	C4	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	D4	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	E4	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		
2	F4	335	Total	C	N	O	S	0	0
			2635	1660	453	510	12		

3 Residue-property plots (i)

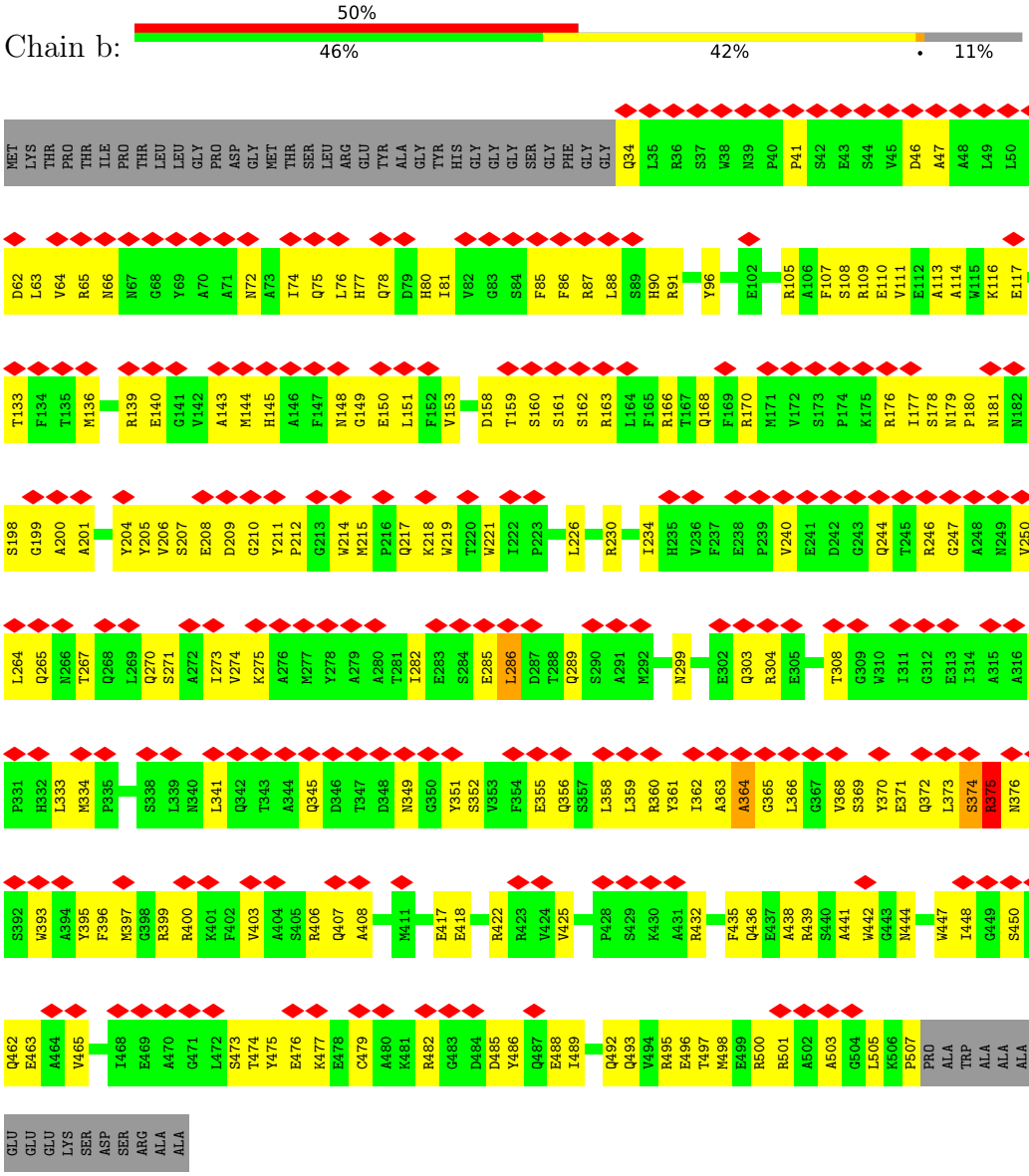
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: Portal protein B



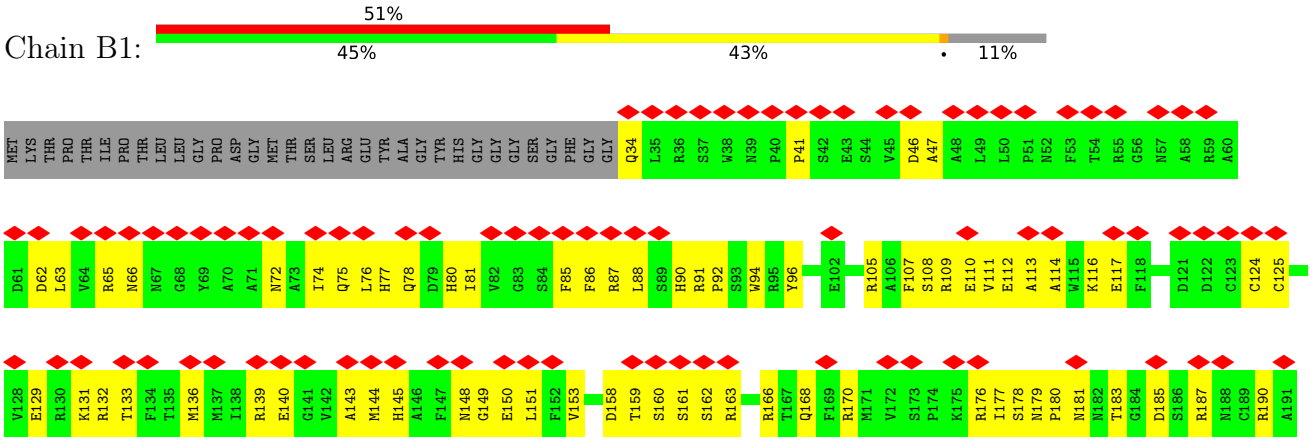
• Molecule 1: Portal protein B

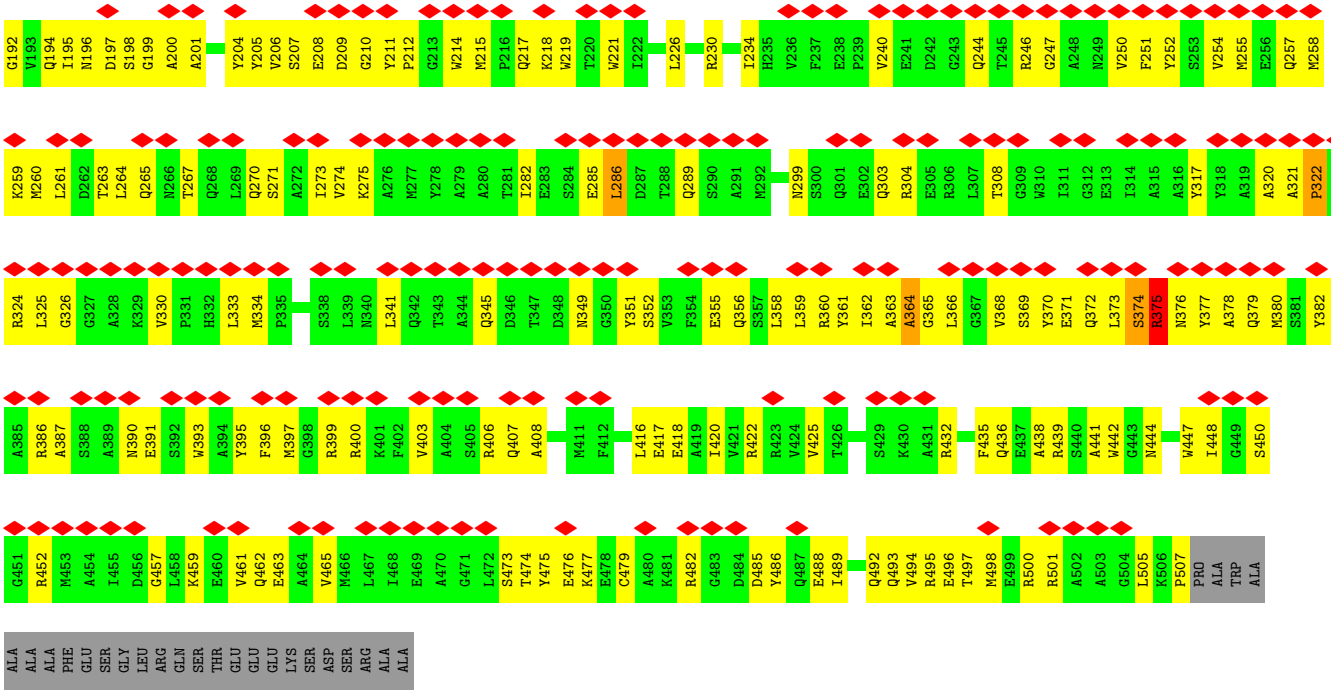
Chain b:



• Molecule 1: Portal protein B

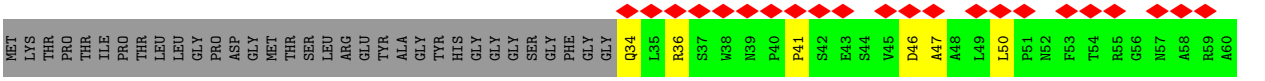
Chain B1:

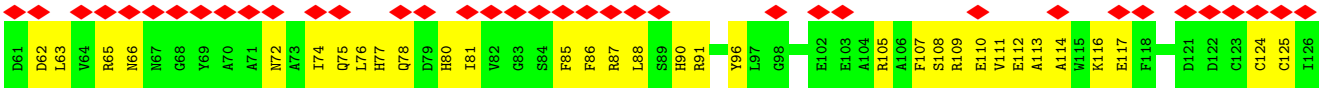


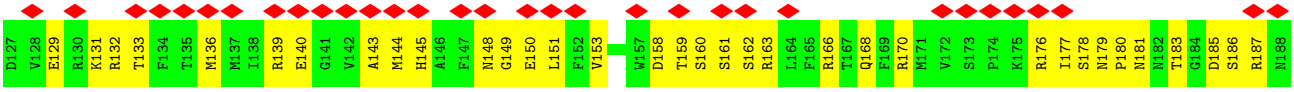


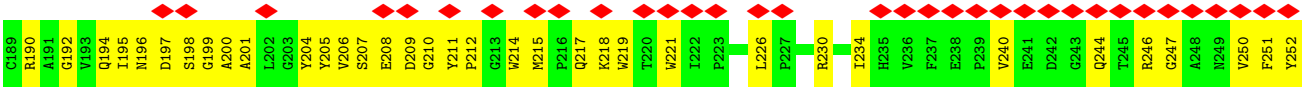
• Molecule 1: Portal protein B

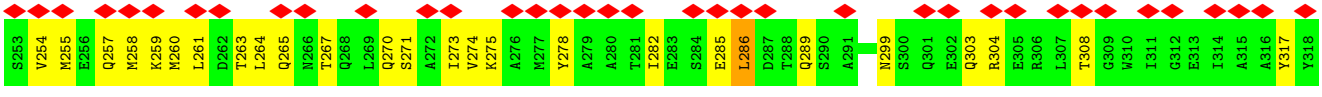
Chain b1:

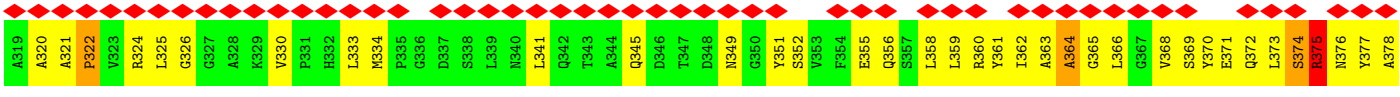


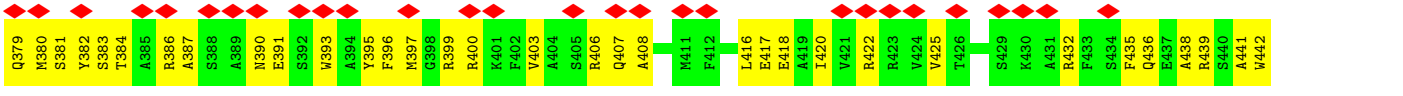


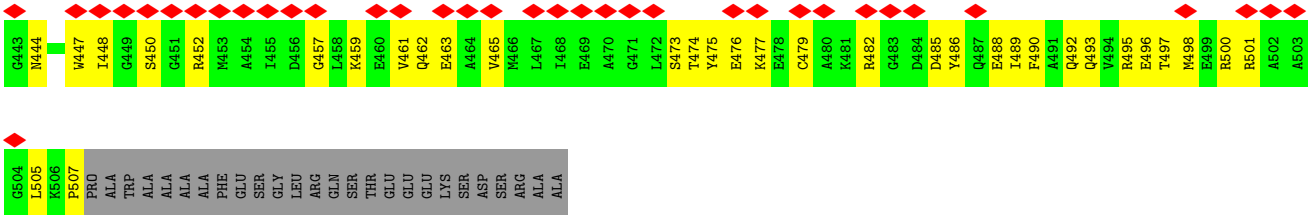




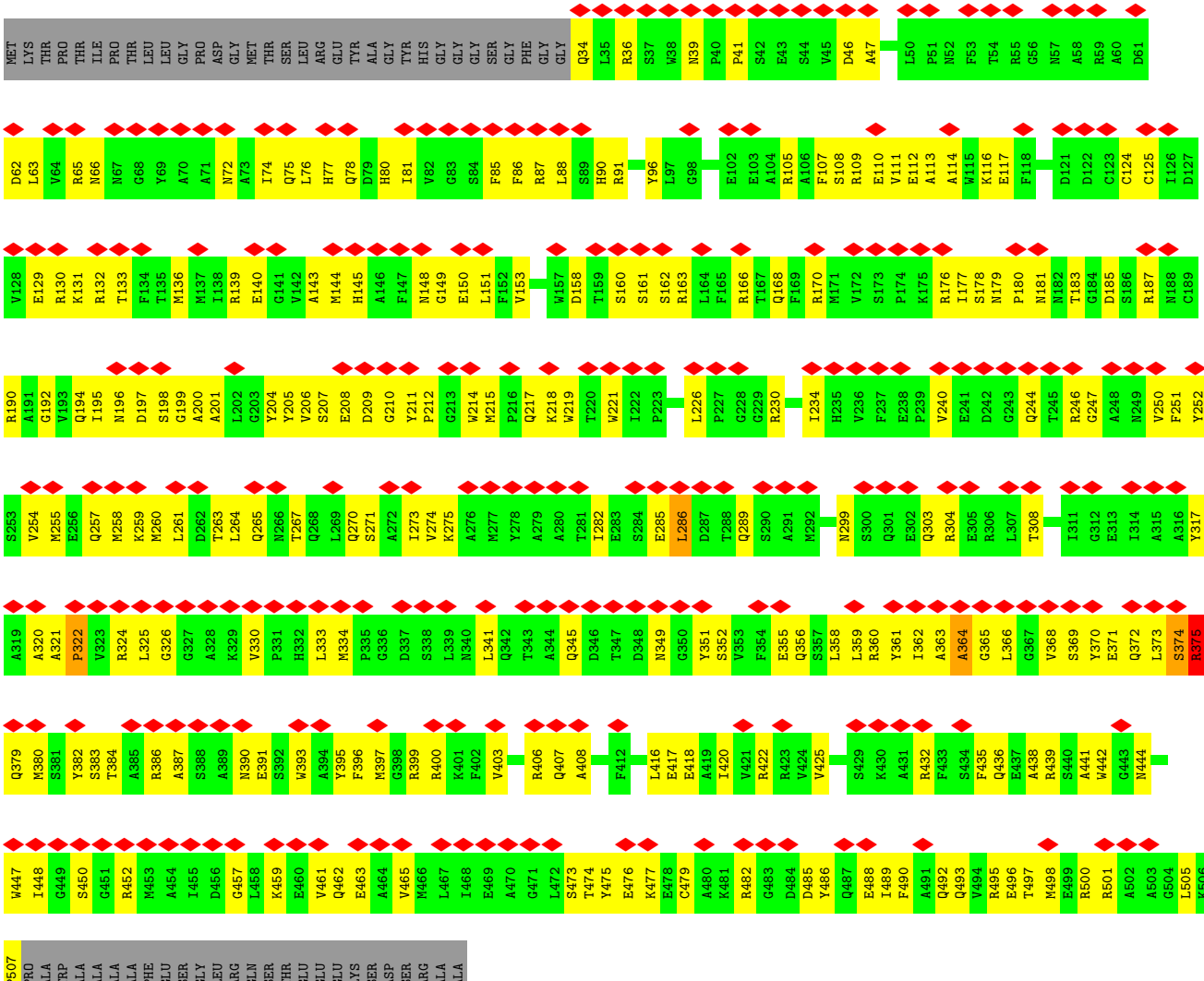




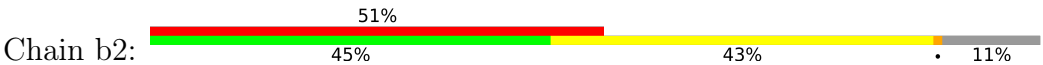


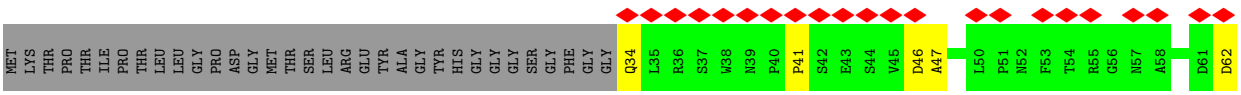


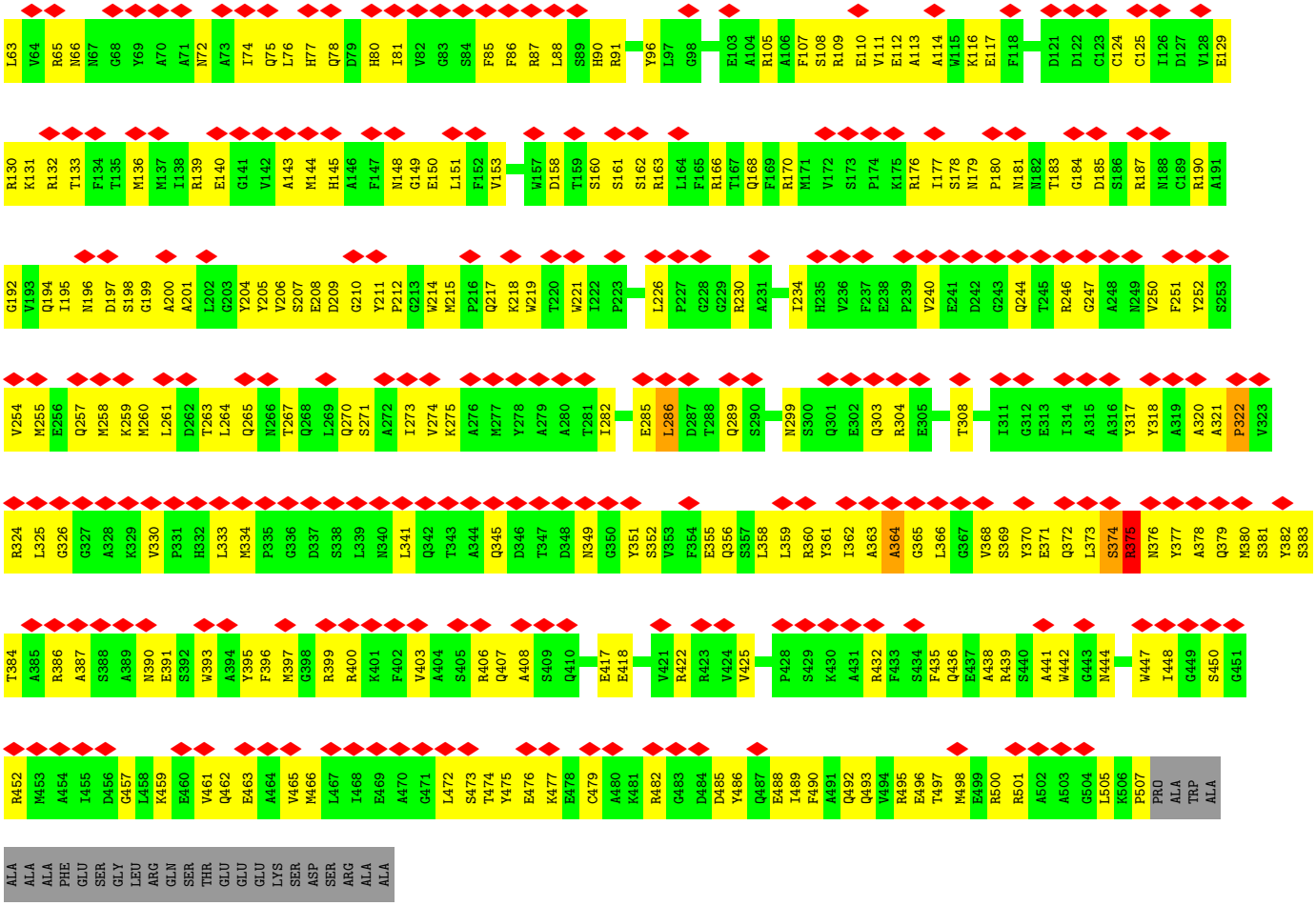
• Molecule 1: Portal protein B



• Molecule 1: Portal protein B

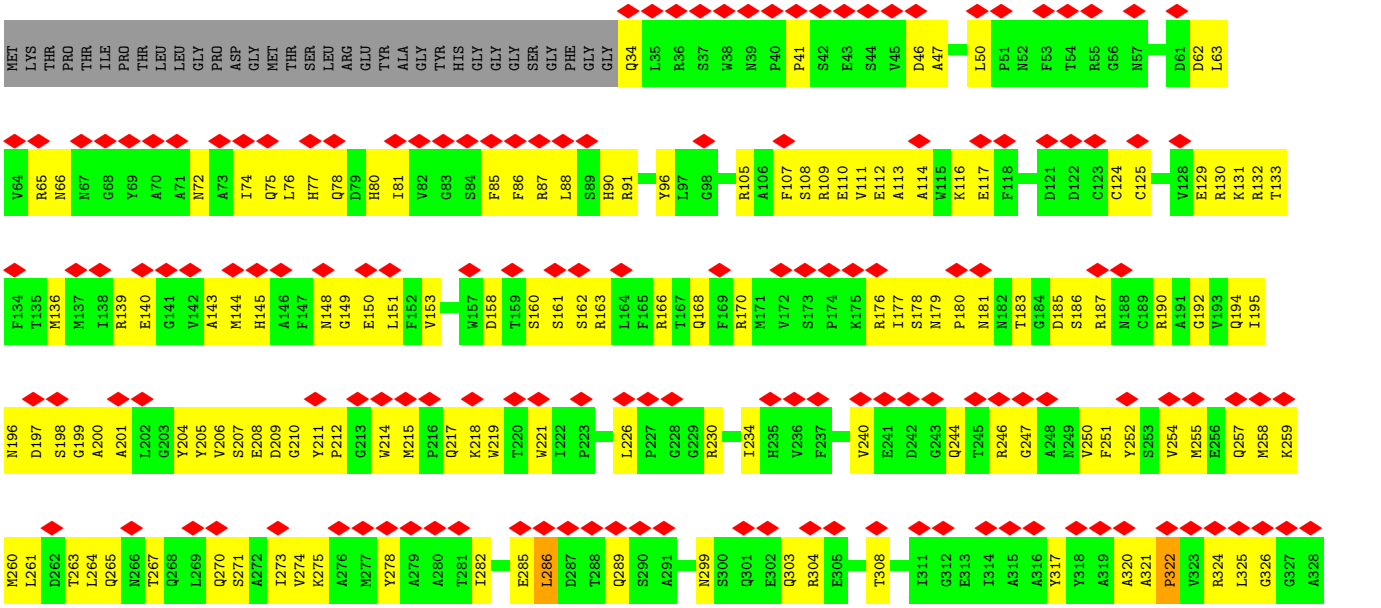


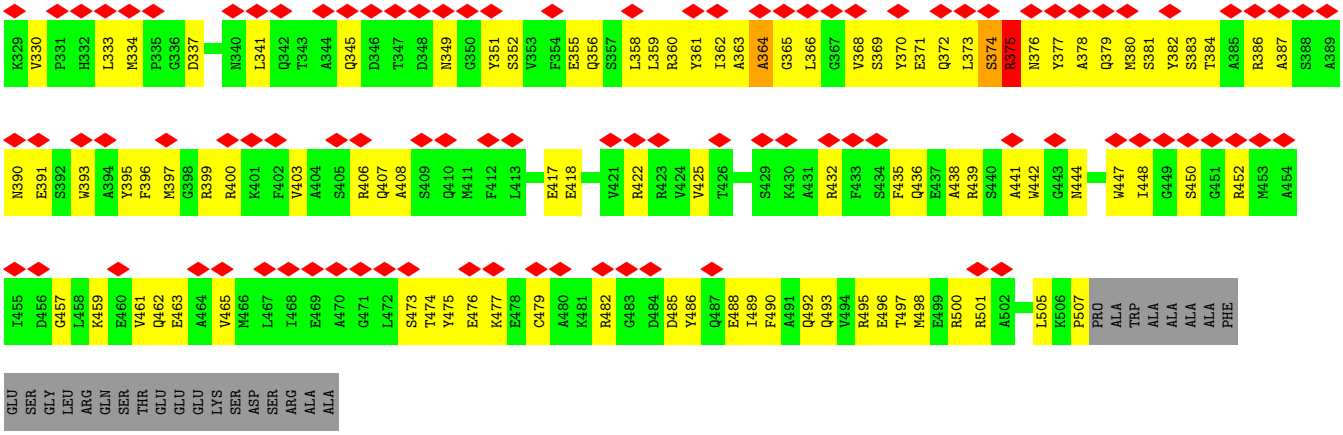




• Molecule 1: Portal protein B

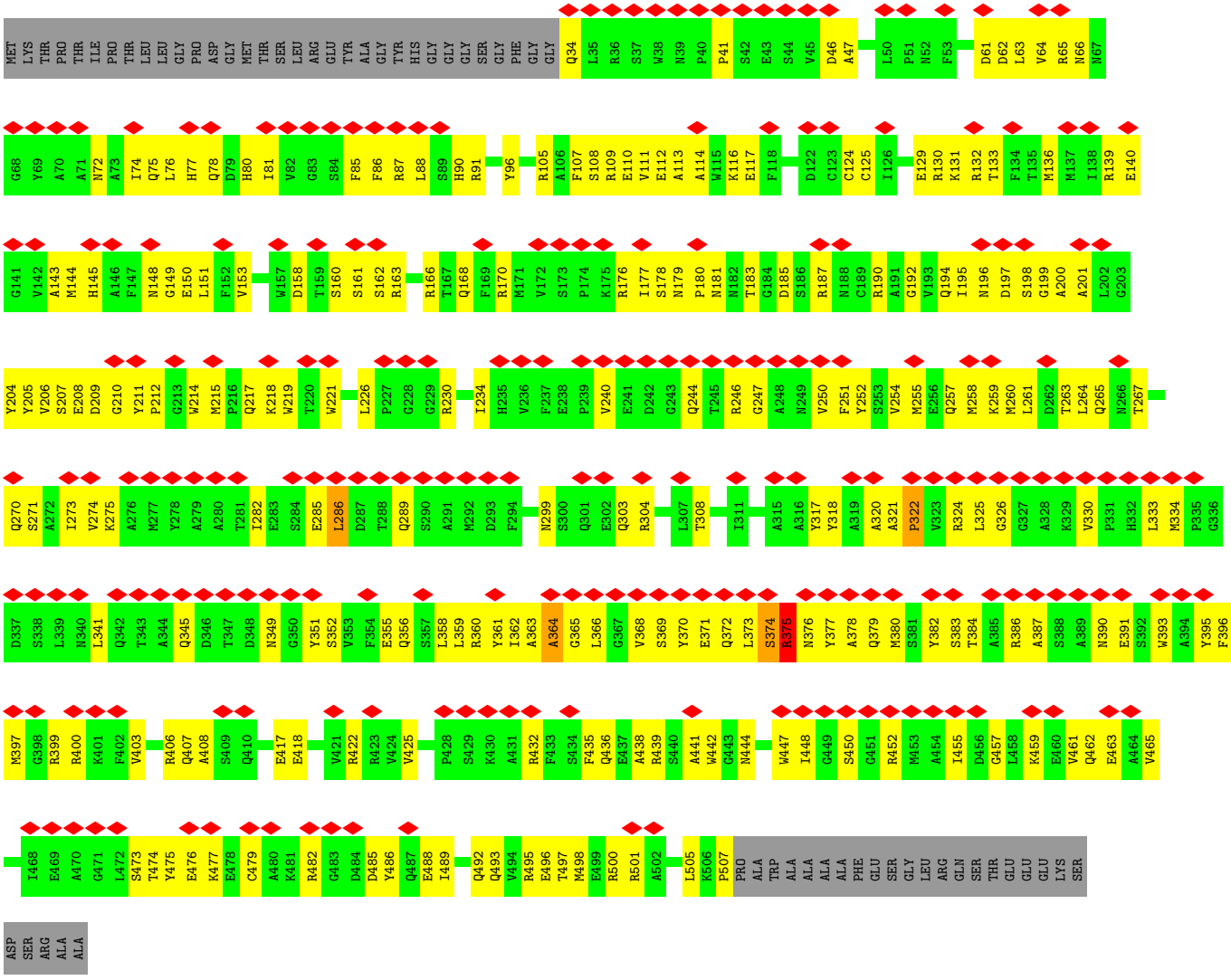
Chain B3:





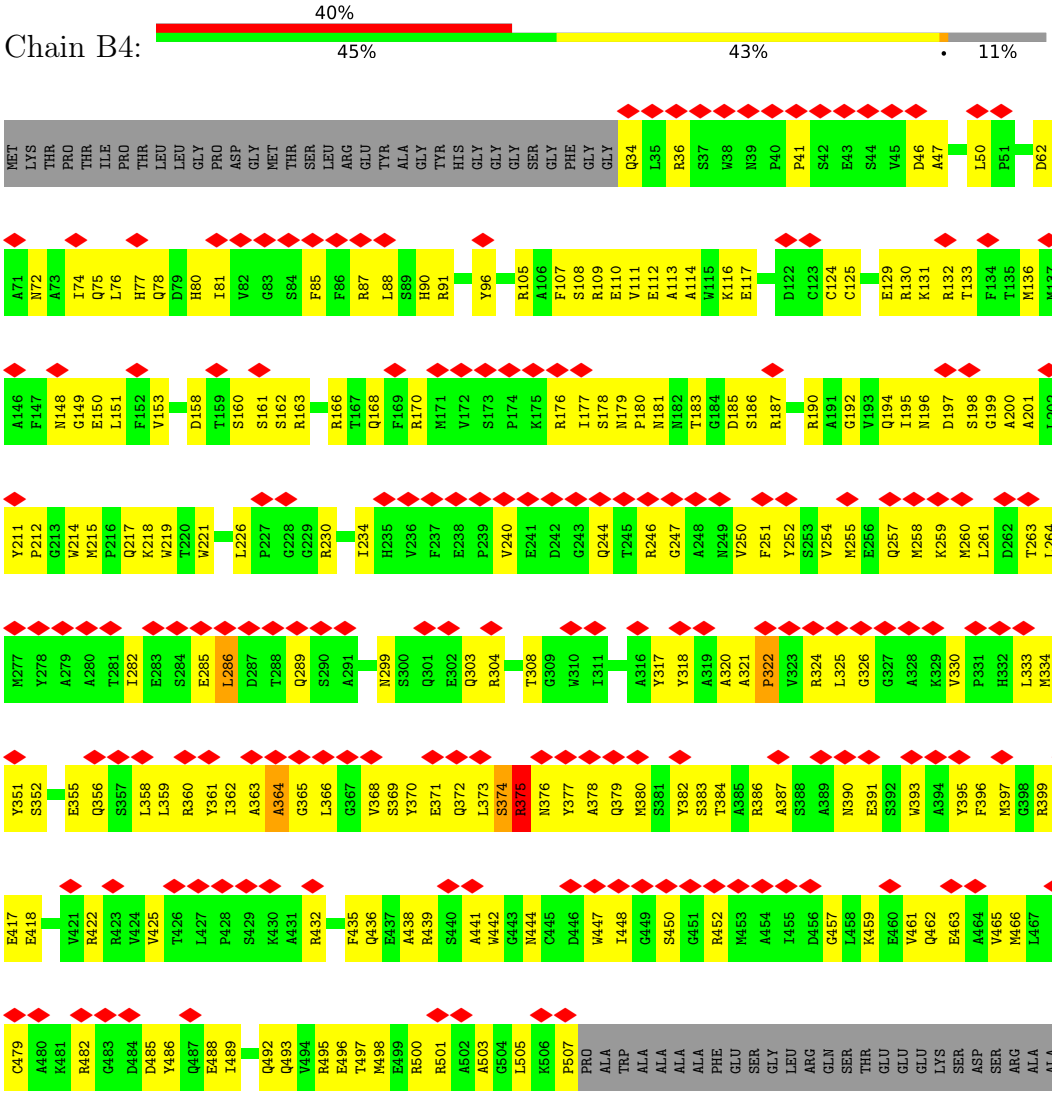
• Molecule 1: Portal protein B

Chain b3:



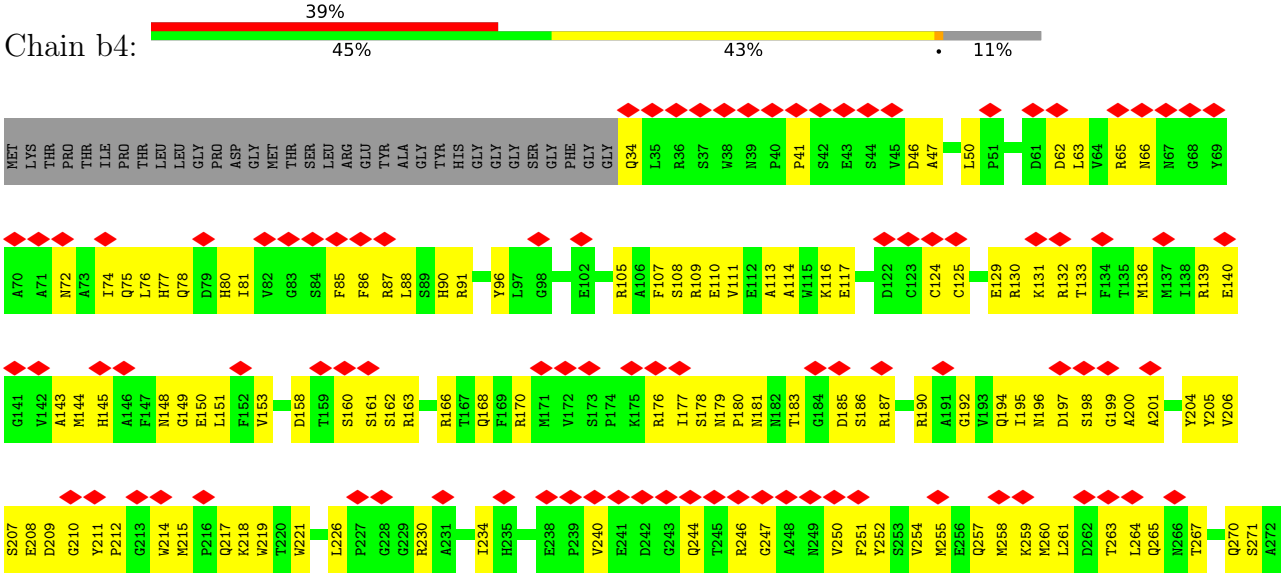
• Molecule 1: Portal protein B

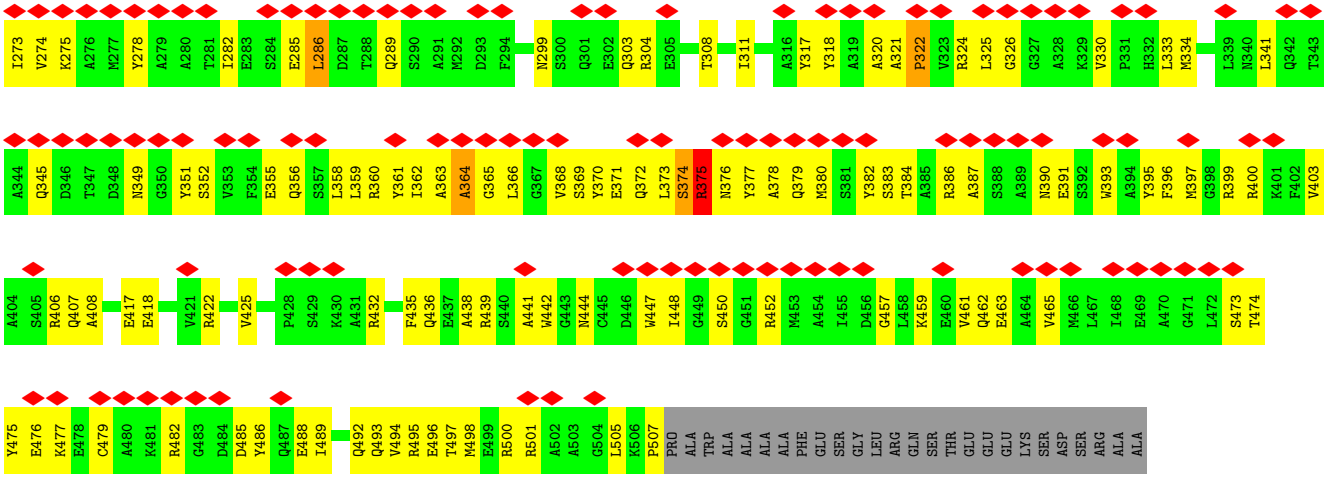
Chain B4:



• Molecule 1: Portal protein B

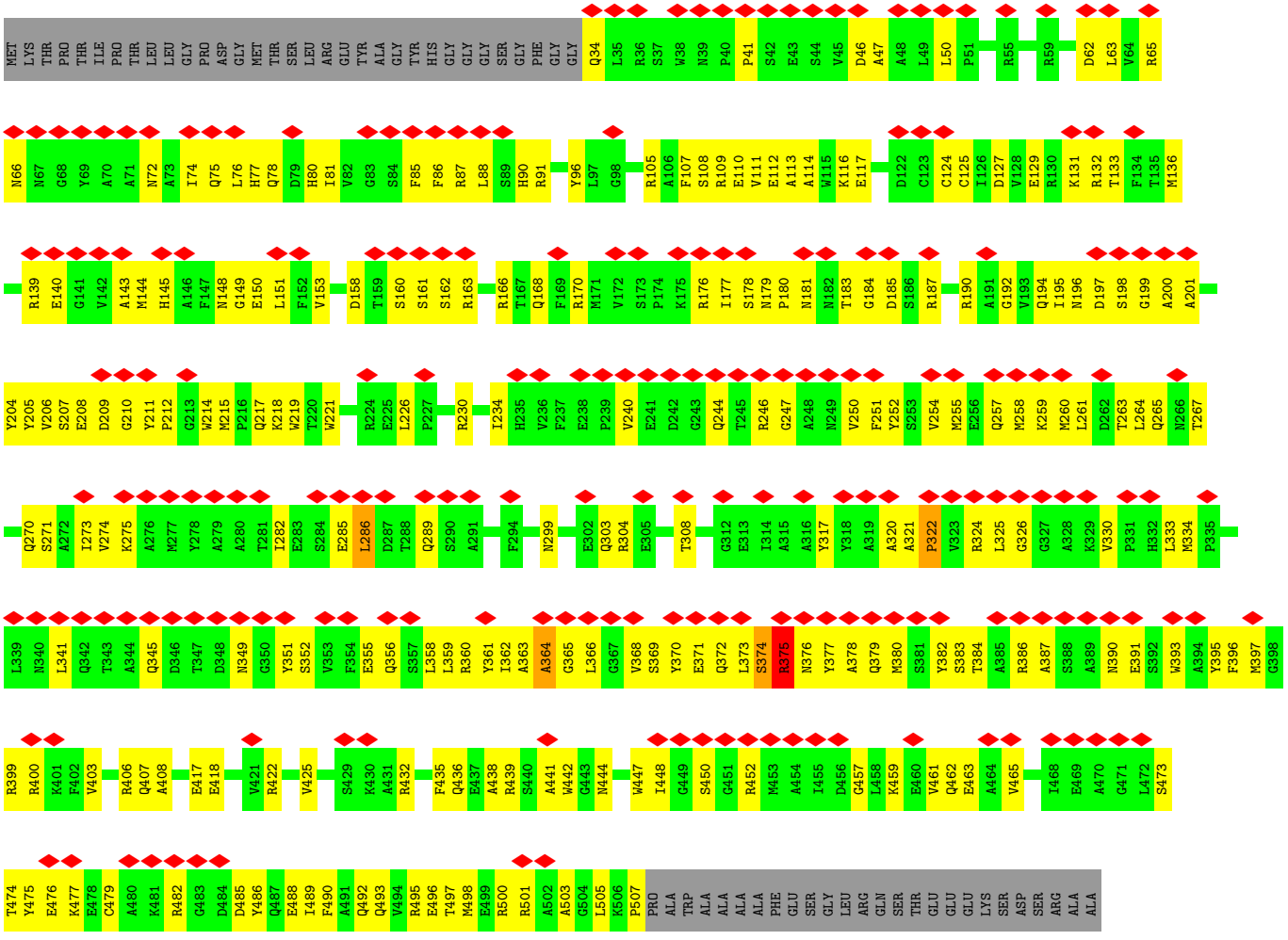
Chain b4:





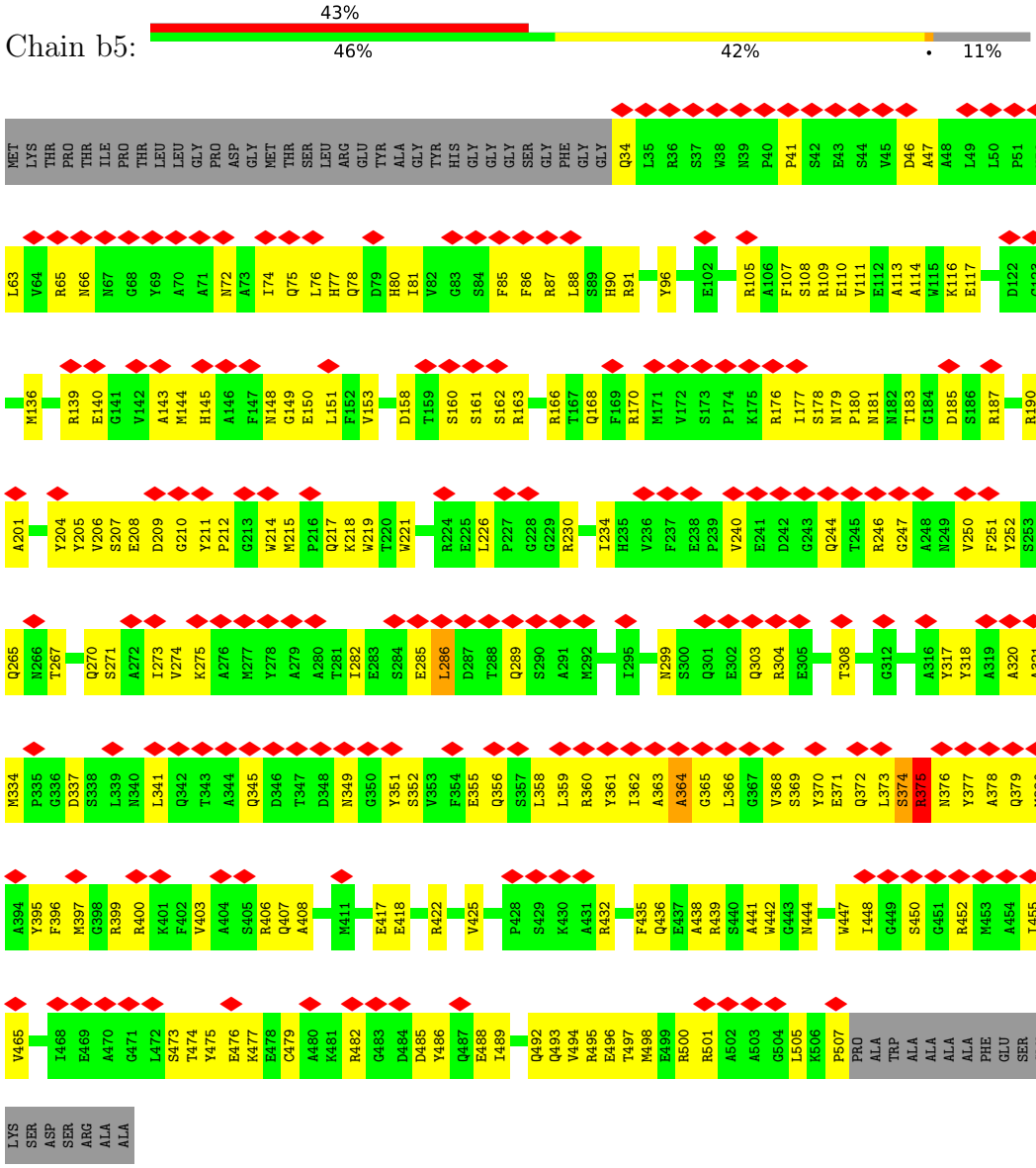
• Molecule 1: Portal protein B

Chain B5:



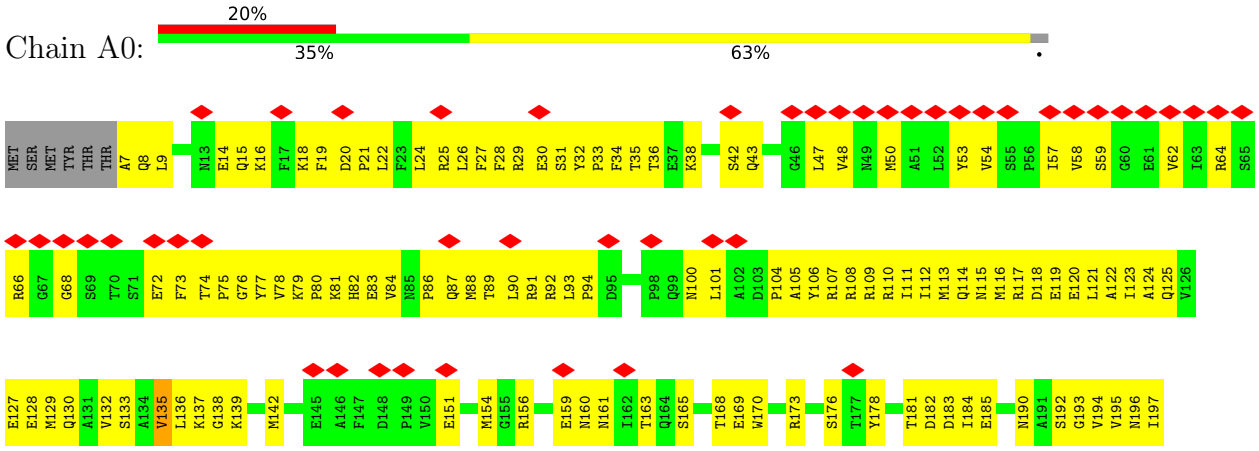
• Molecule 1: Portal protein B

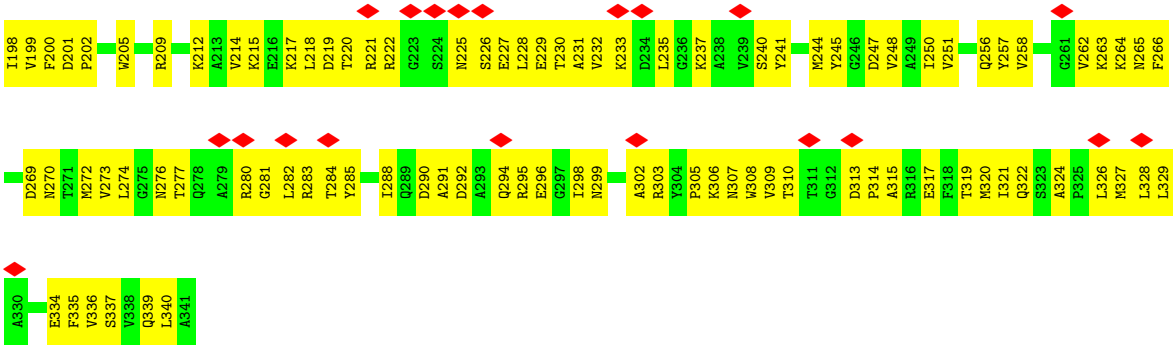
Chain b5:



• Molecule 2: Major capsid protein

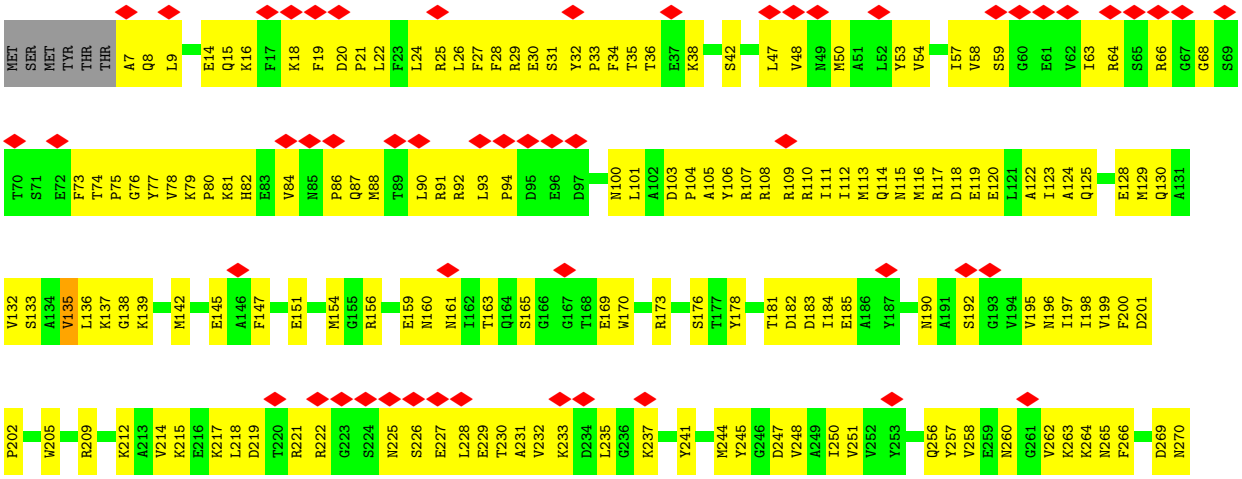
Chain A0:





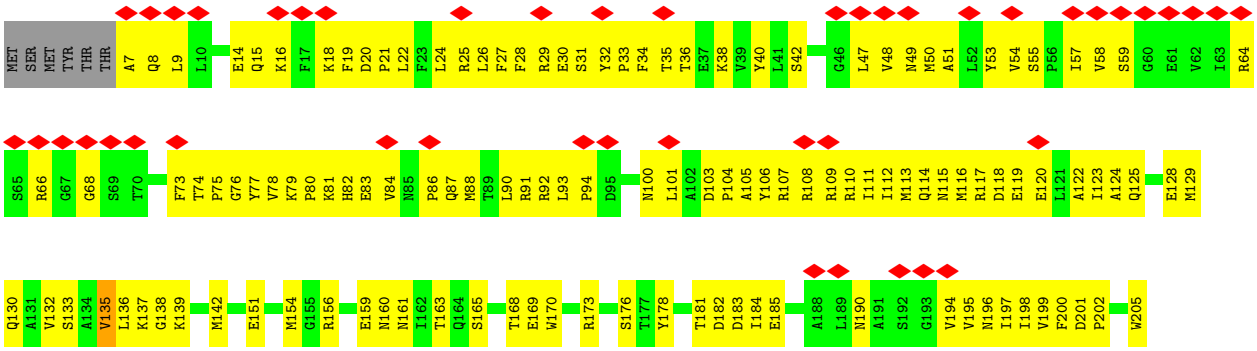
• Molecule 2: Major capsid protein

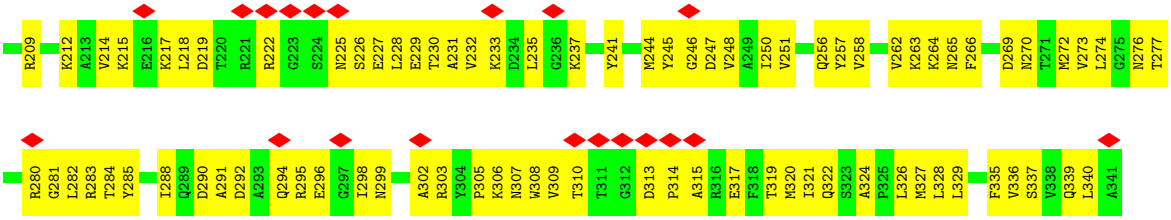
Chain G0:



• Molecule 2: Major capsid protein

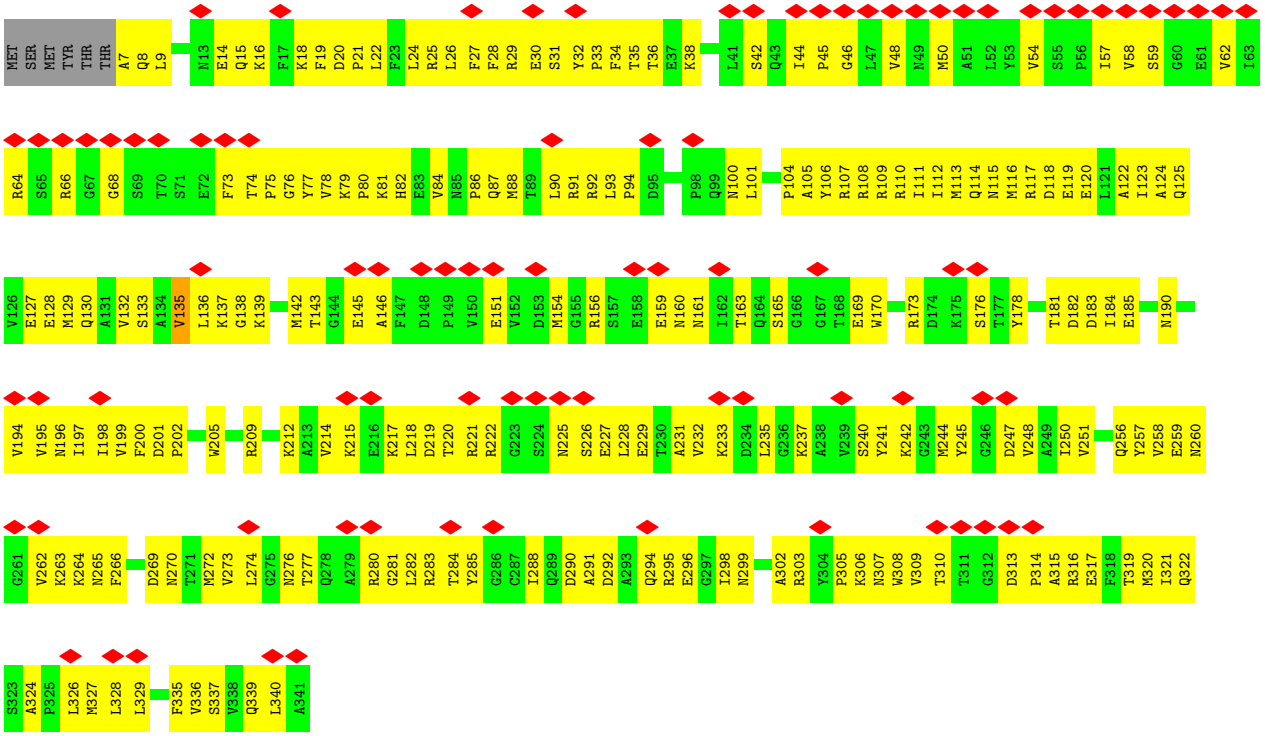
Chain C0:





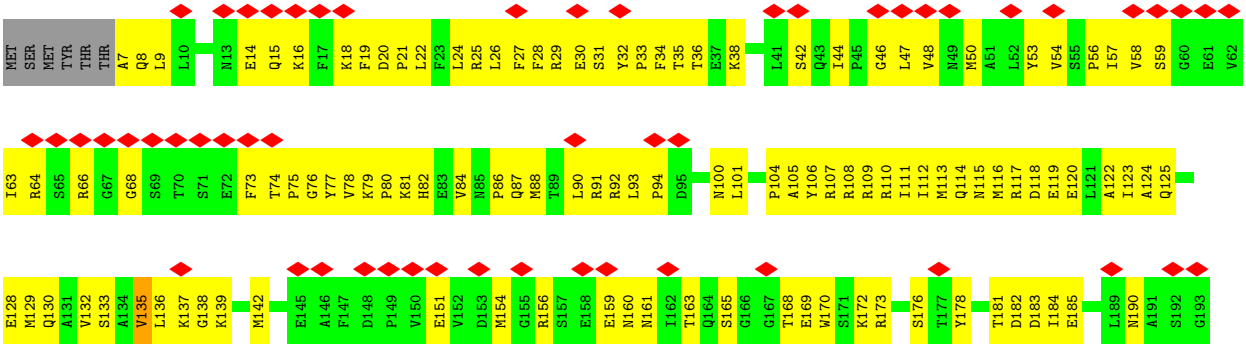
• Molecule 2: Major capsid protein

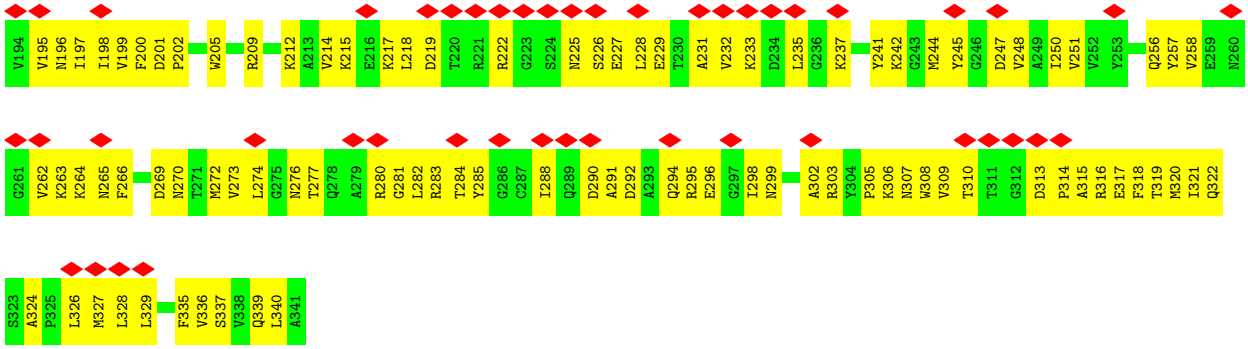
Chain D0:



• Molecule 2: Major capsid protein

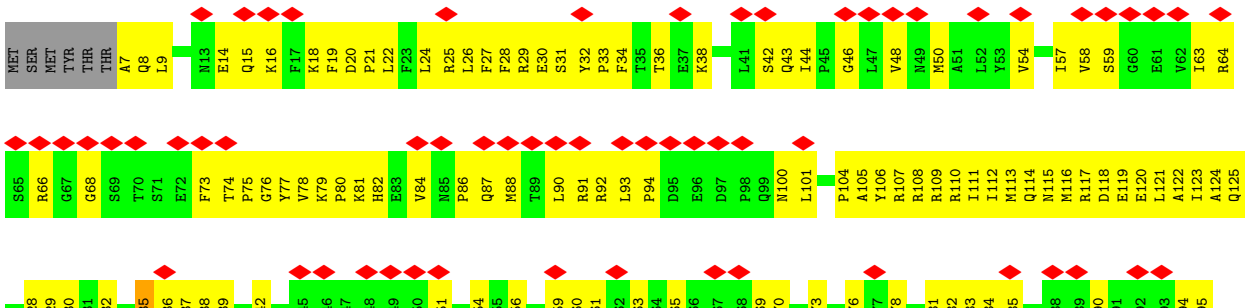
Chain E0:





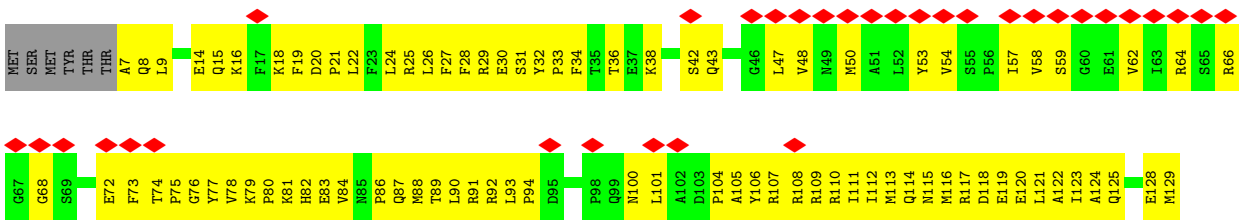
• Molecule 2: Major capsid protein

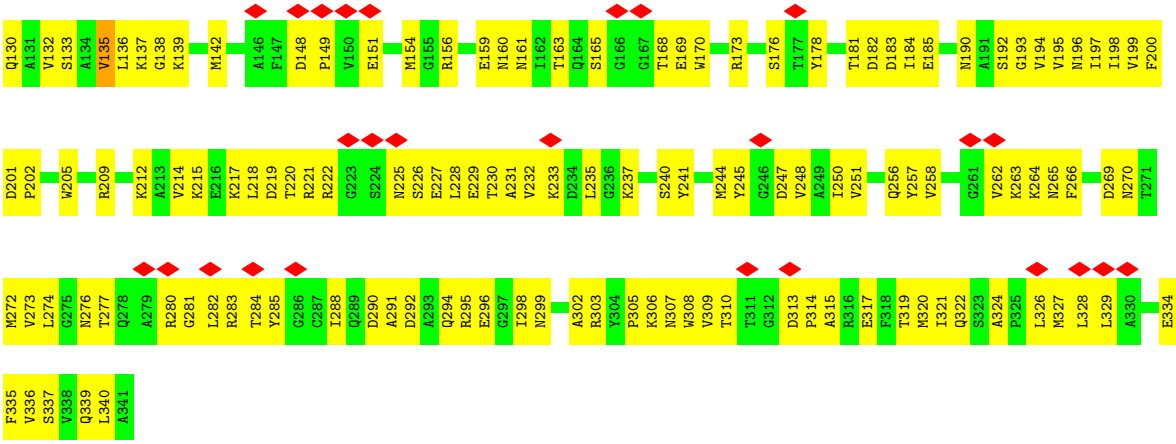
Chain F0:



• Molecule 2: Major capsid protein

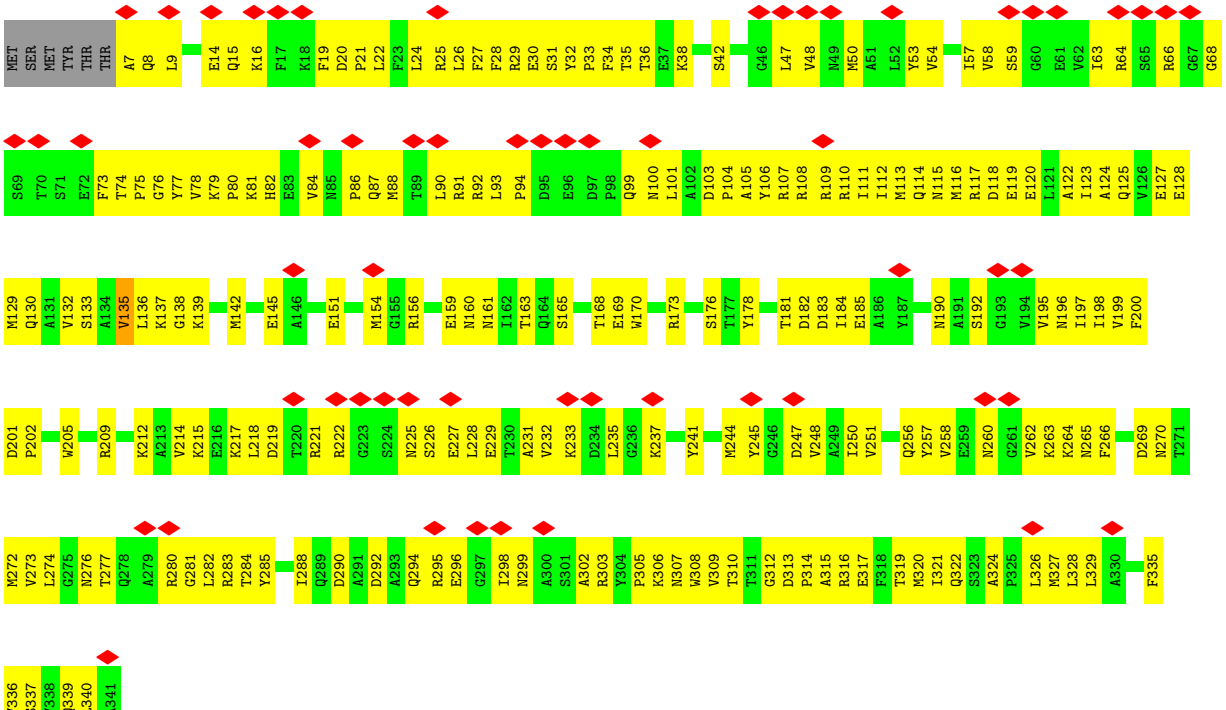
Chain A1:





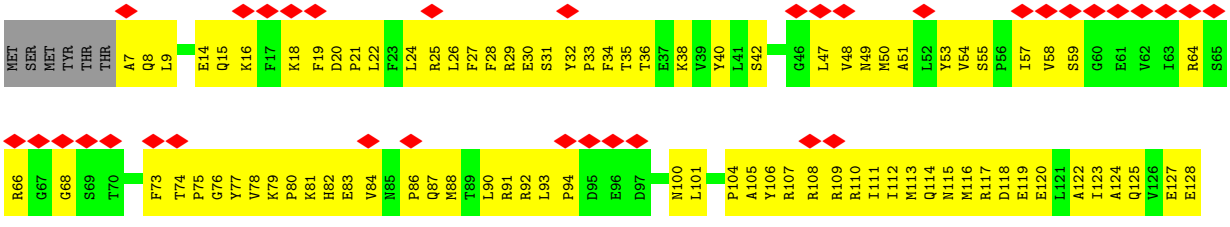
• Molecule 2: Major capsid protein

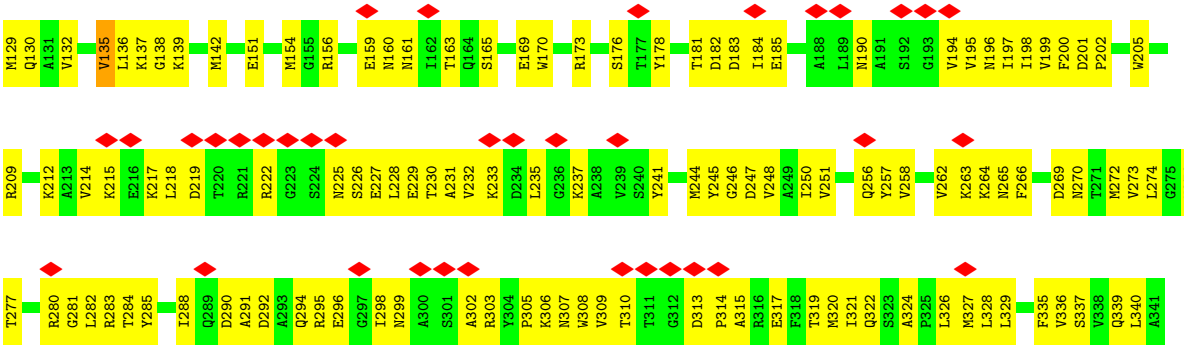
Chain G1:



• Molecule 2: Major capsid protein

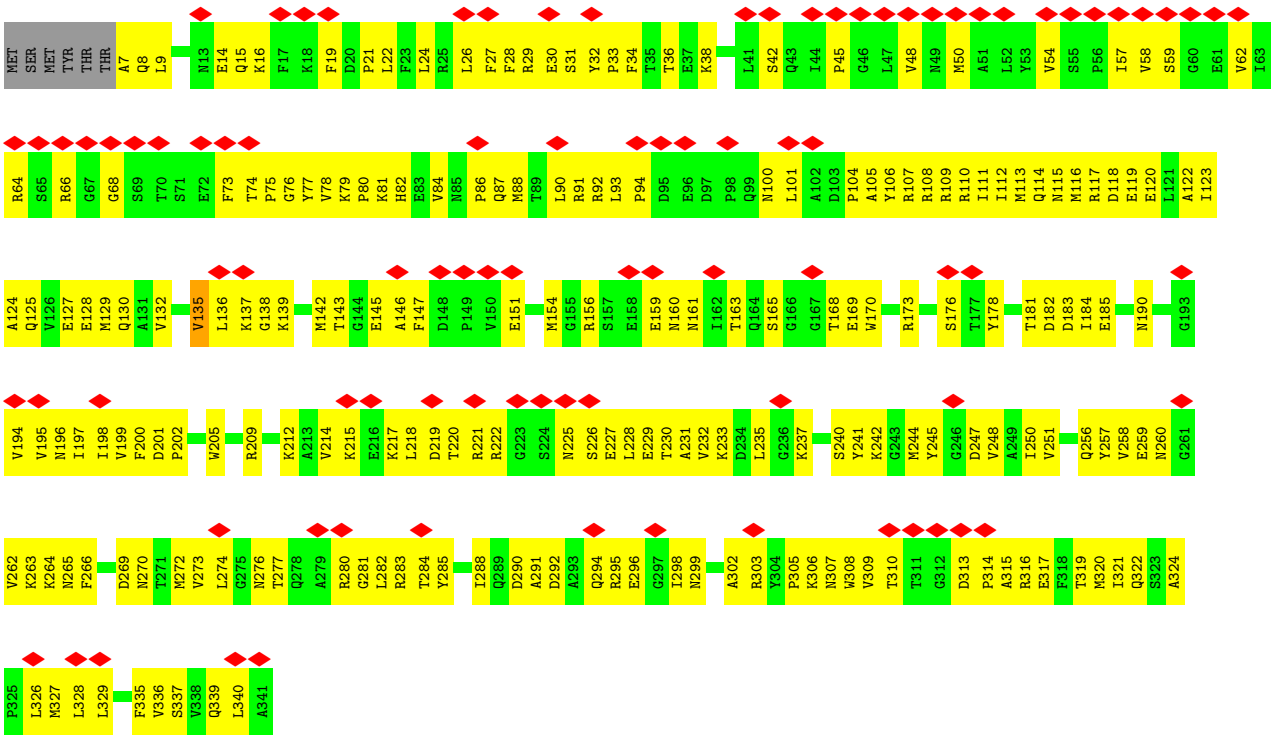
Chain C1:





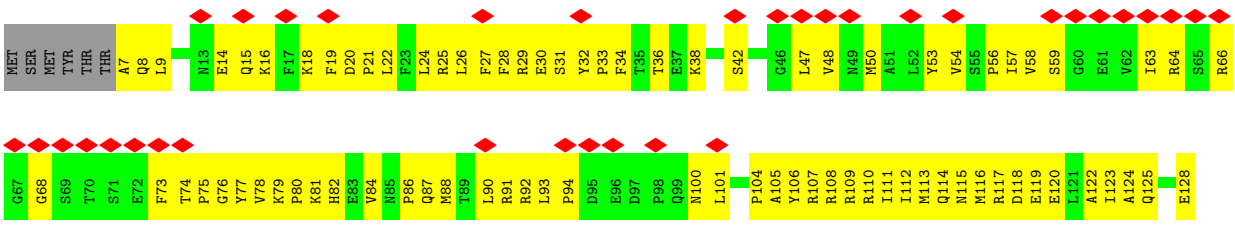
• Molecule 2: Major capsid protein

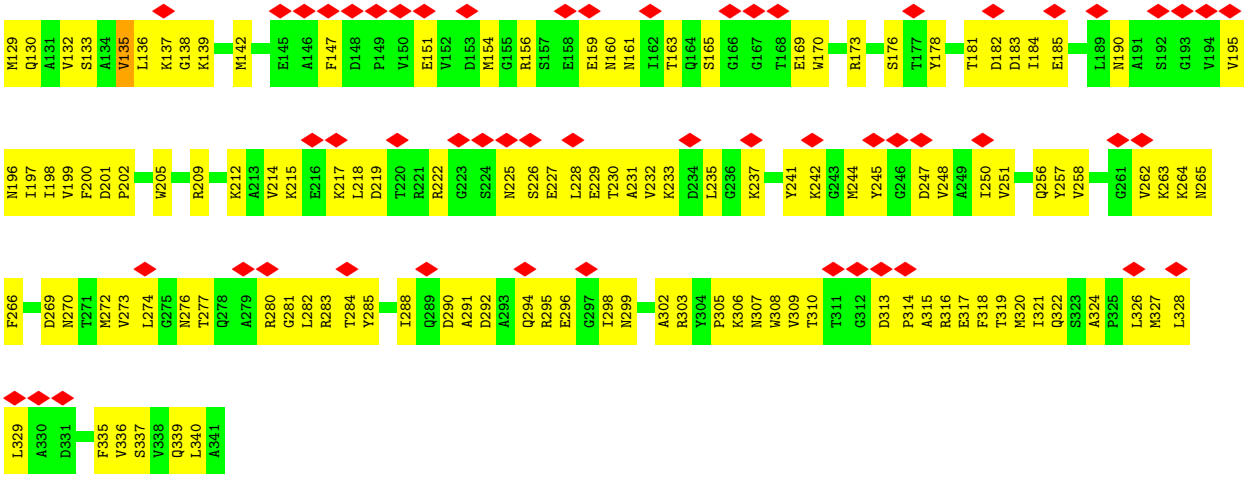
Chain D1:



• Molecule 2: Major capsid protein

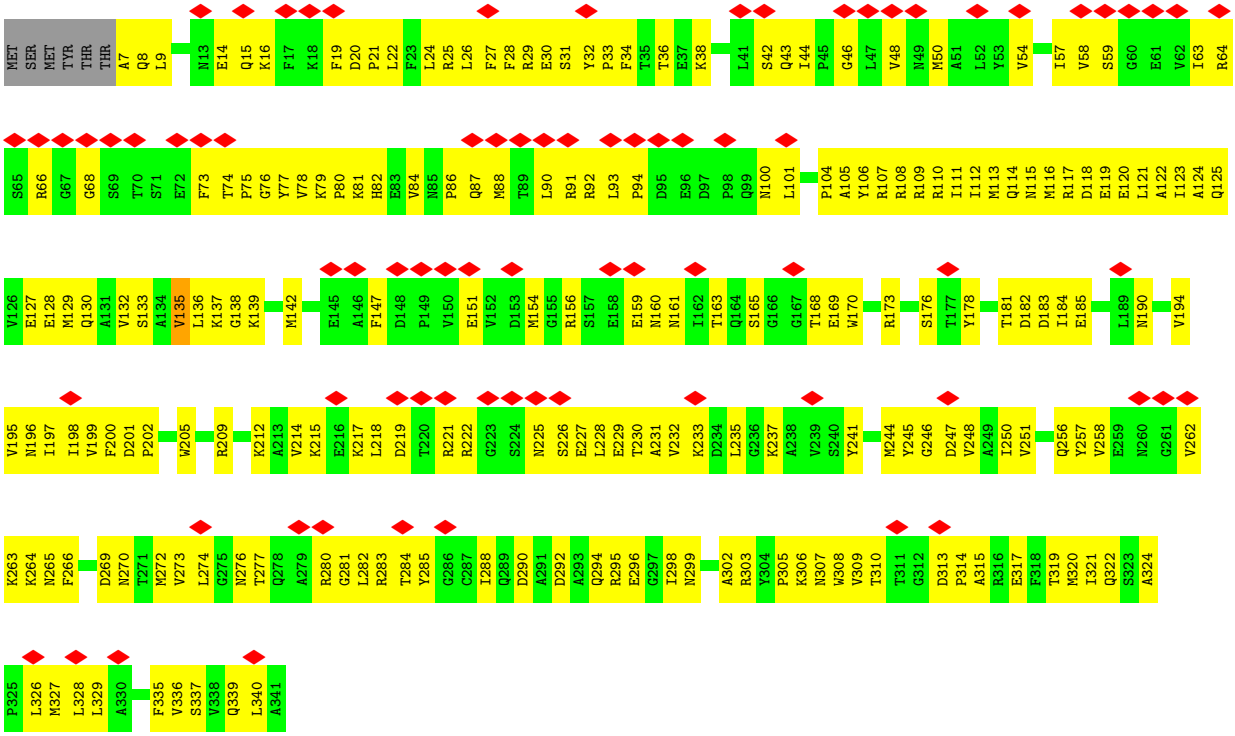
Chain E1:





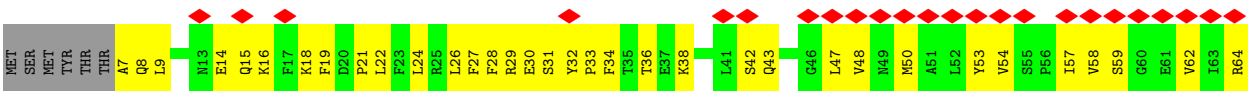
• Molecule 2: Major capsid protein

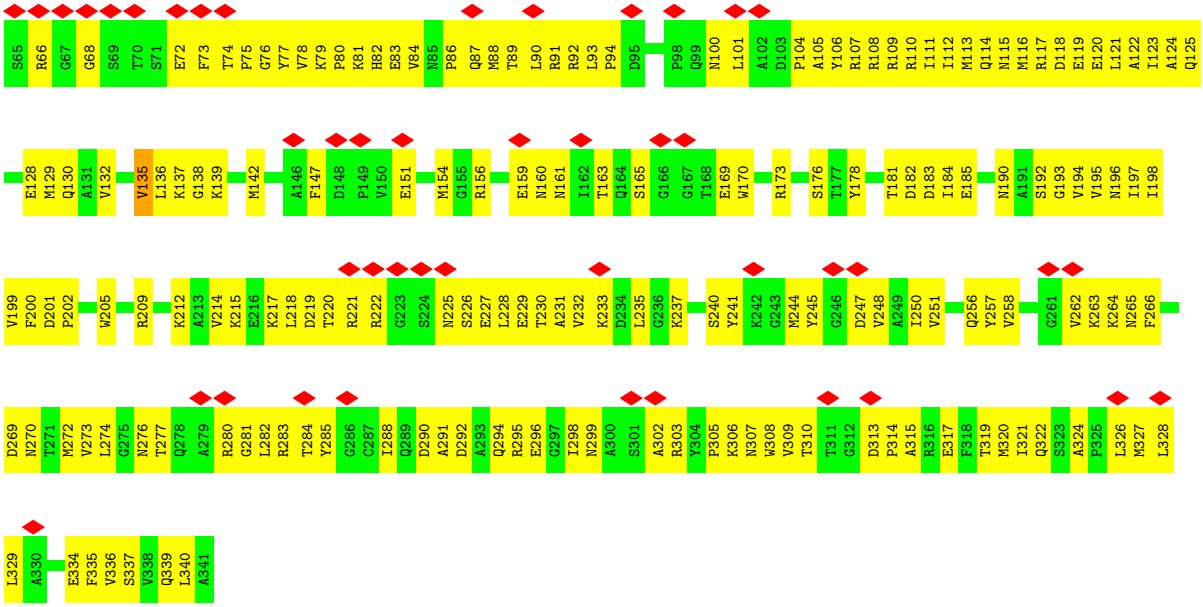
Chain F1:



• Molecule 2: Major capsid protein

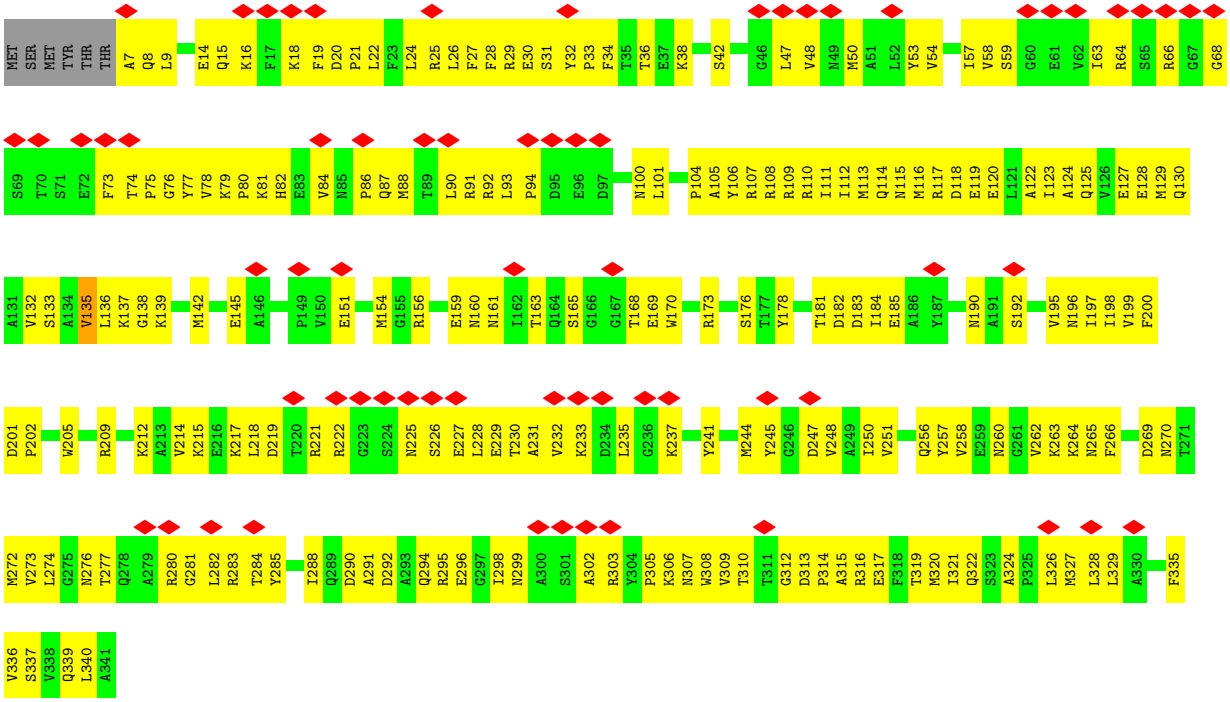
Chain A2:





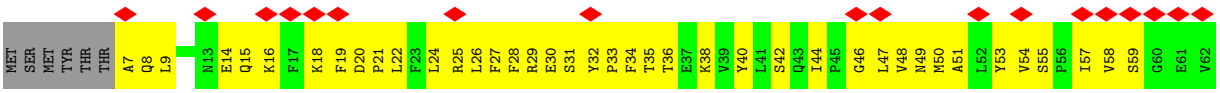
• Molecule 2: Major capsid protein

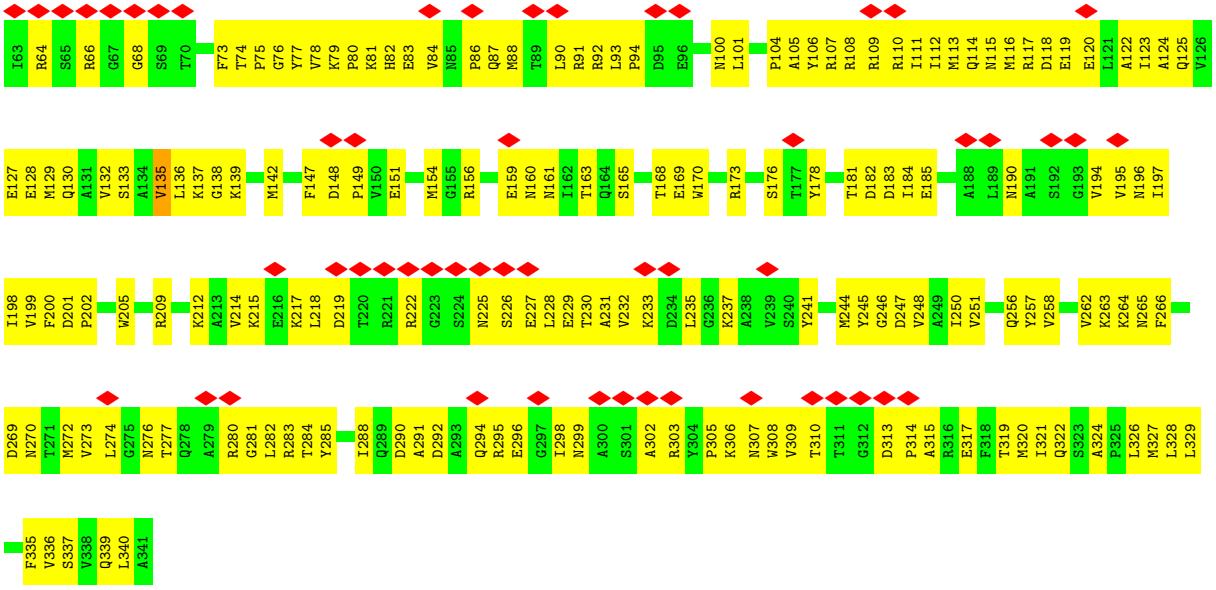
Chain G2:



• Molecule 2: Major capsid protein

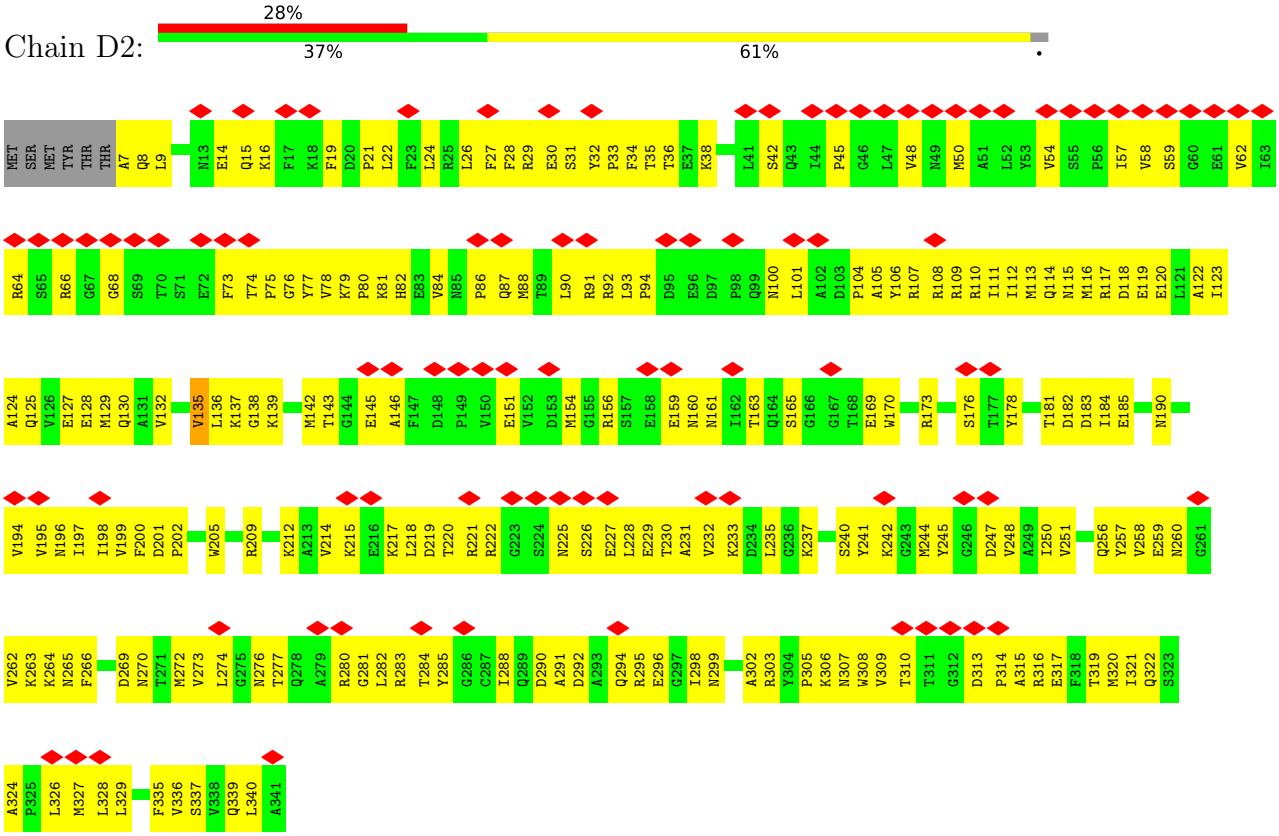
Chain C2:





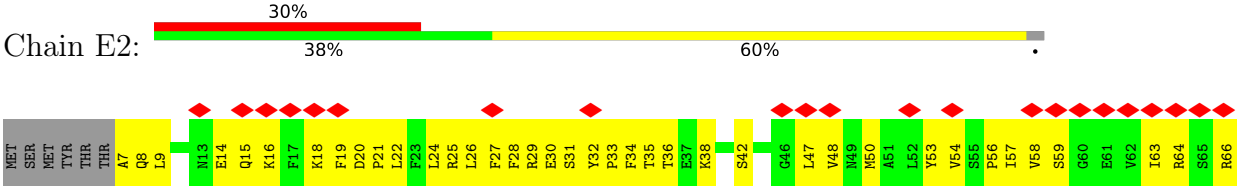
• Molecule 2: Major capsid protein

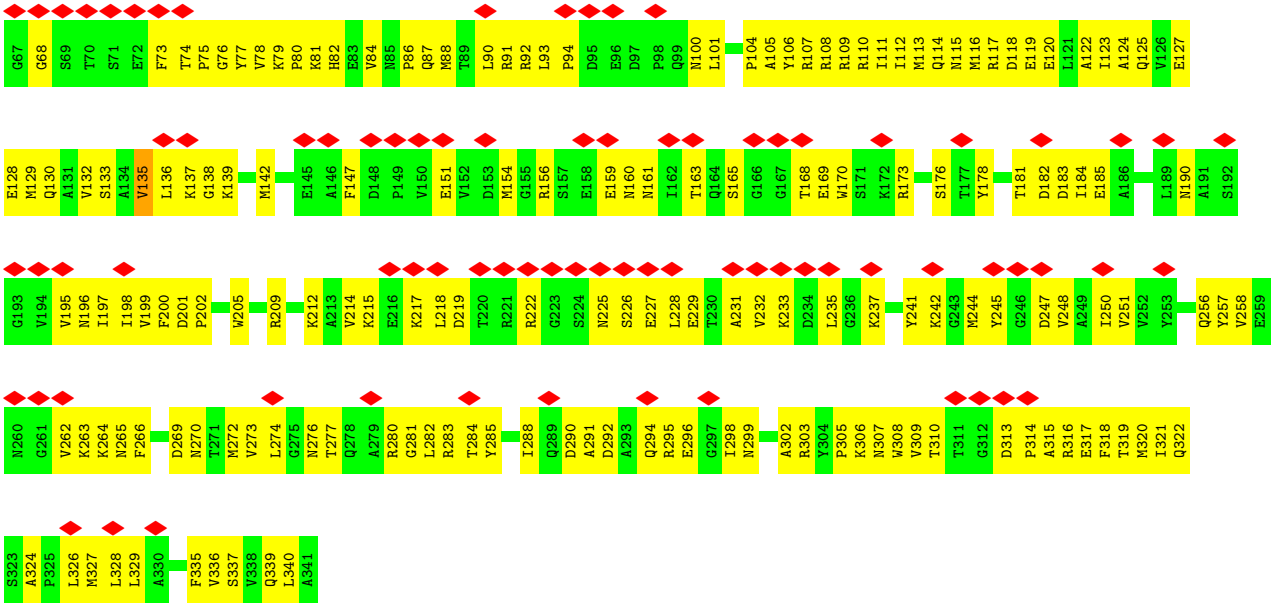
Chain D2:



• Molecule 2: Major capsid protein

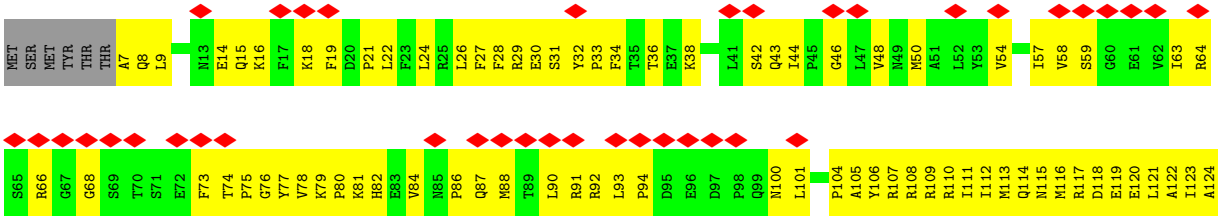
Chain E2:





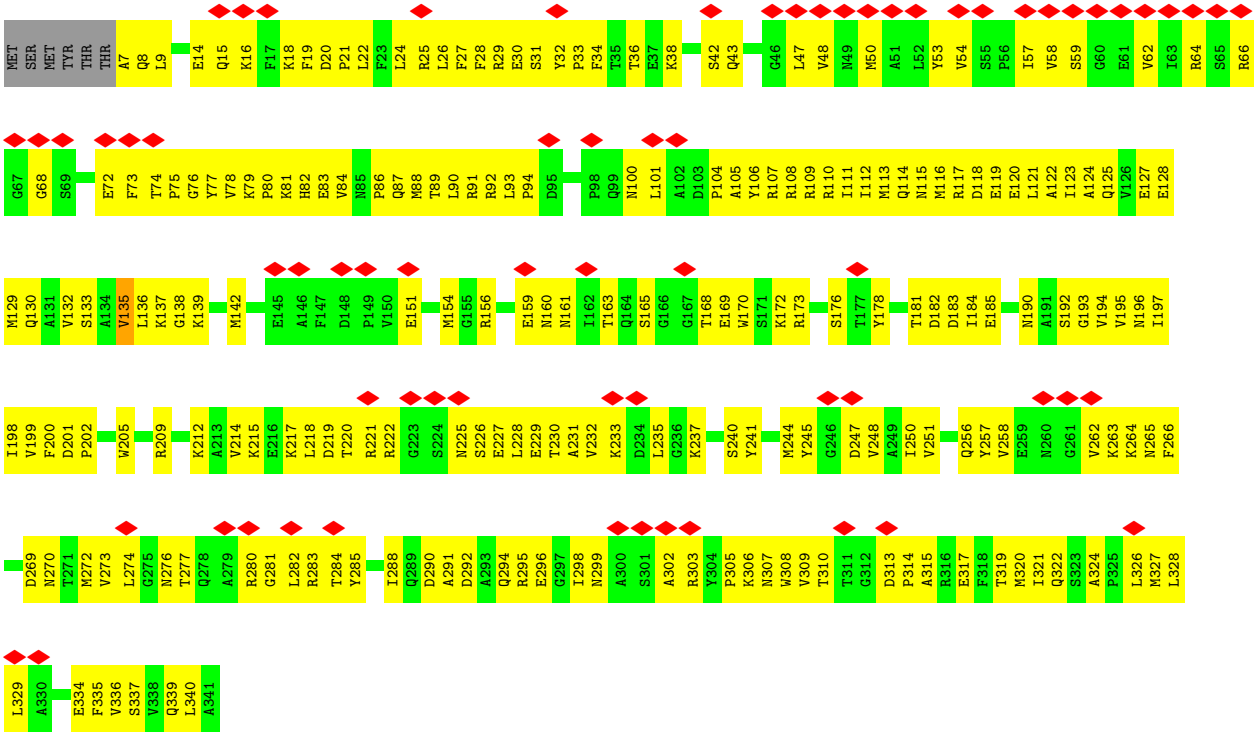
• Molecule 2: Major capsid protein

Chain F2:



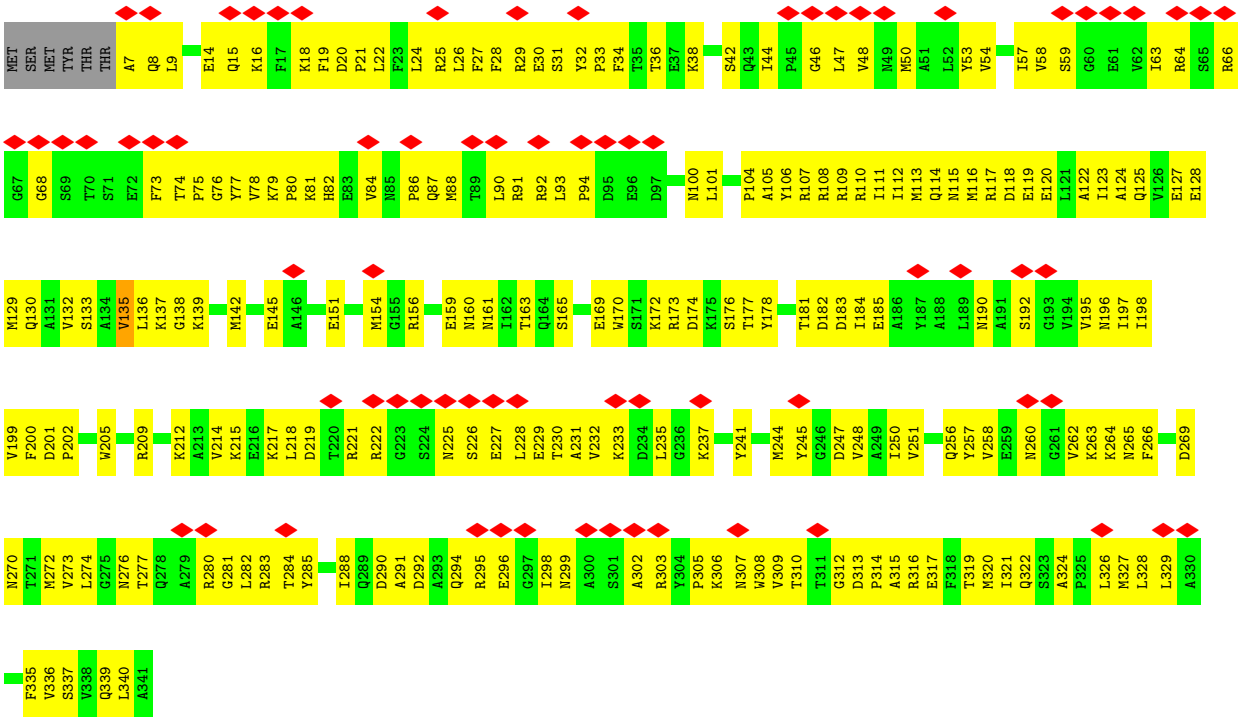
• Molecule 2: Major capsid protein

Chain A3:



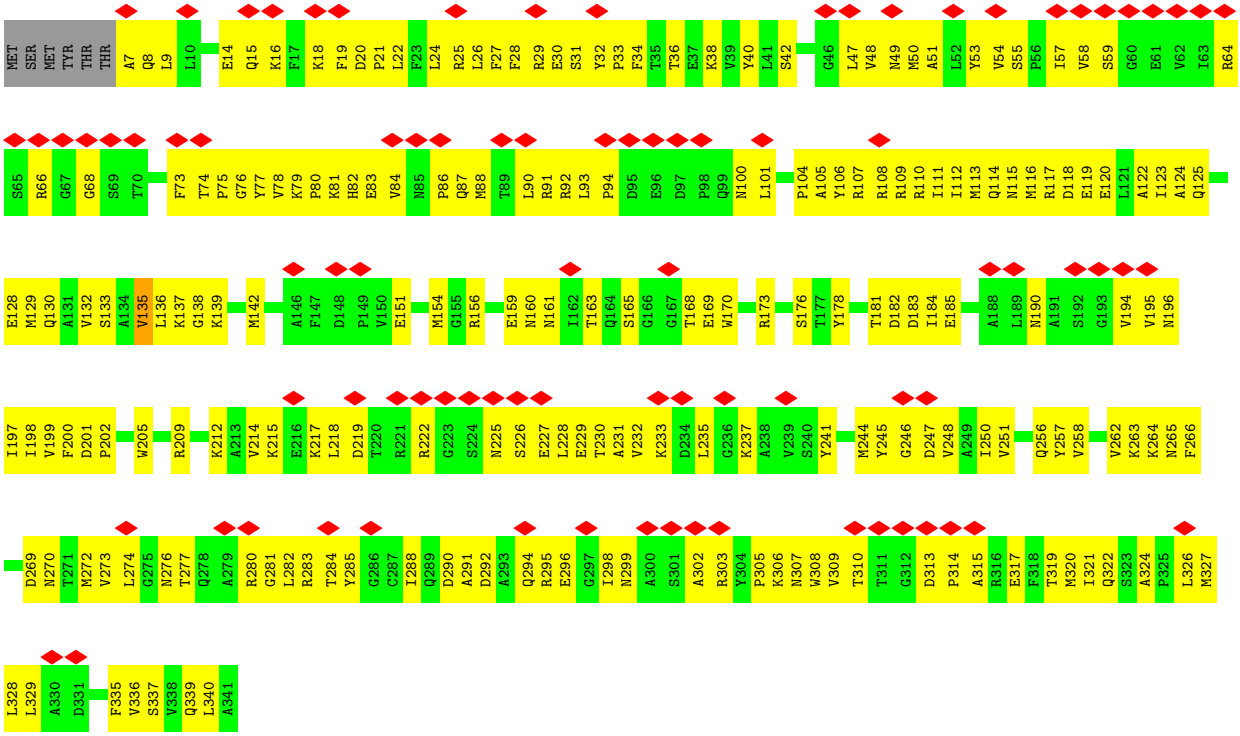
• Molecule 2: Major capsid protein

Chain G3:



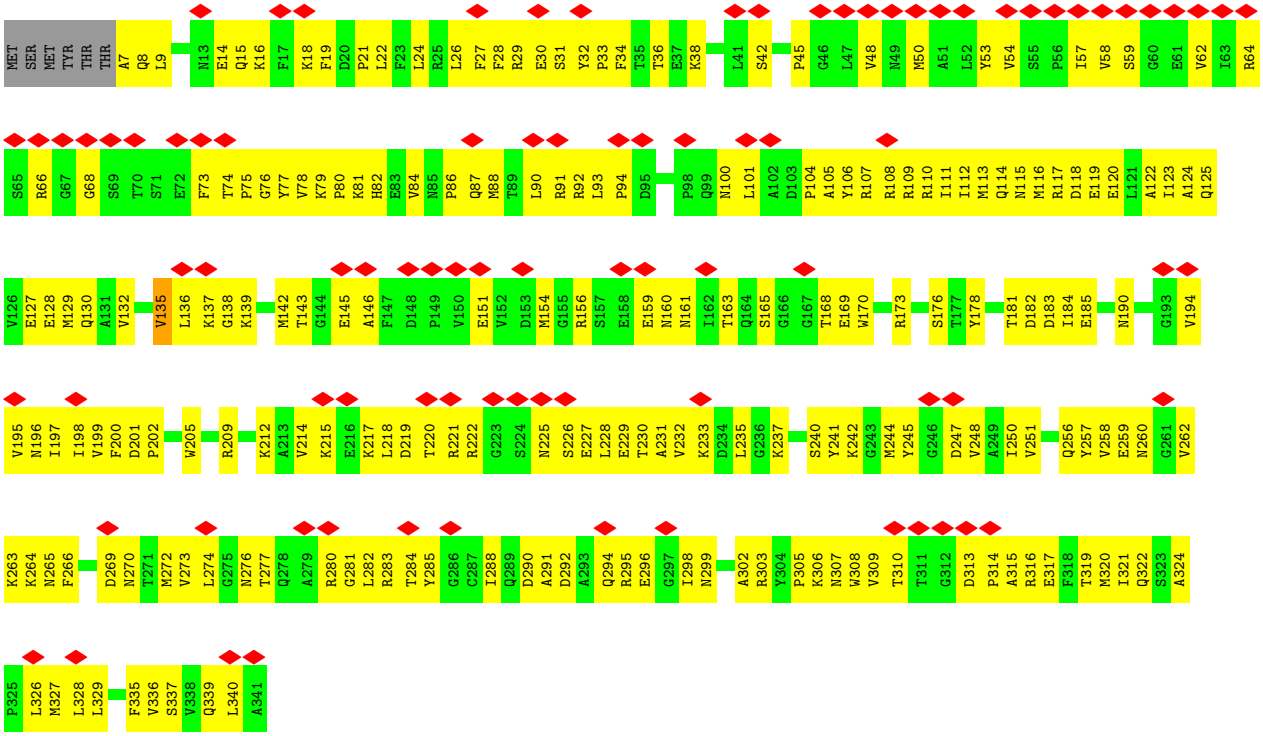
• Molecule 2: Major capsid protein

Chain C3:



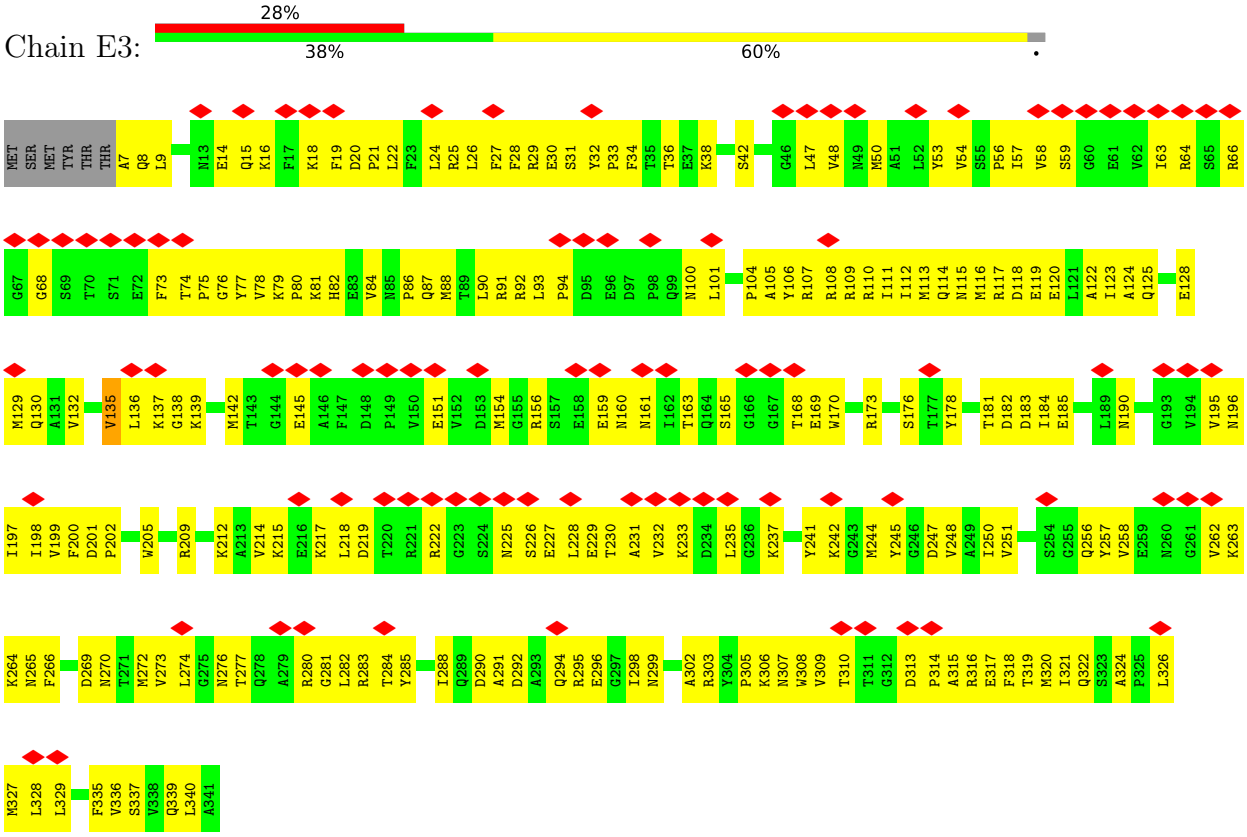
• Molecule 2: Major capsid protein

Chain D3:



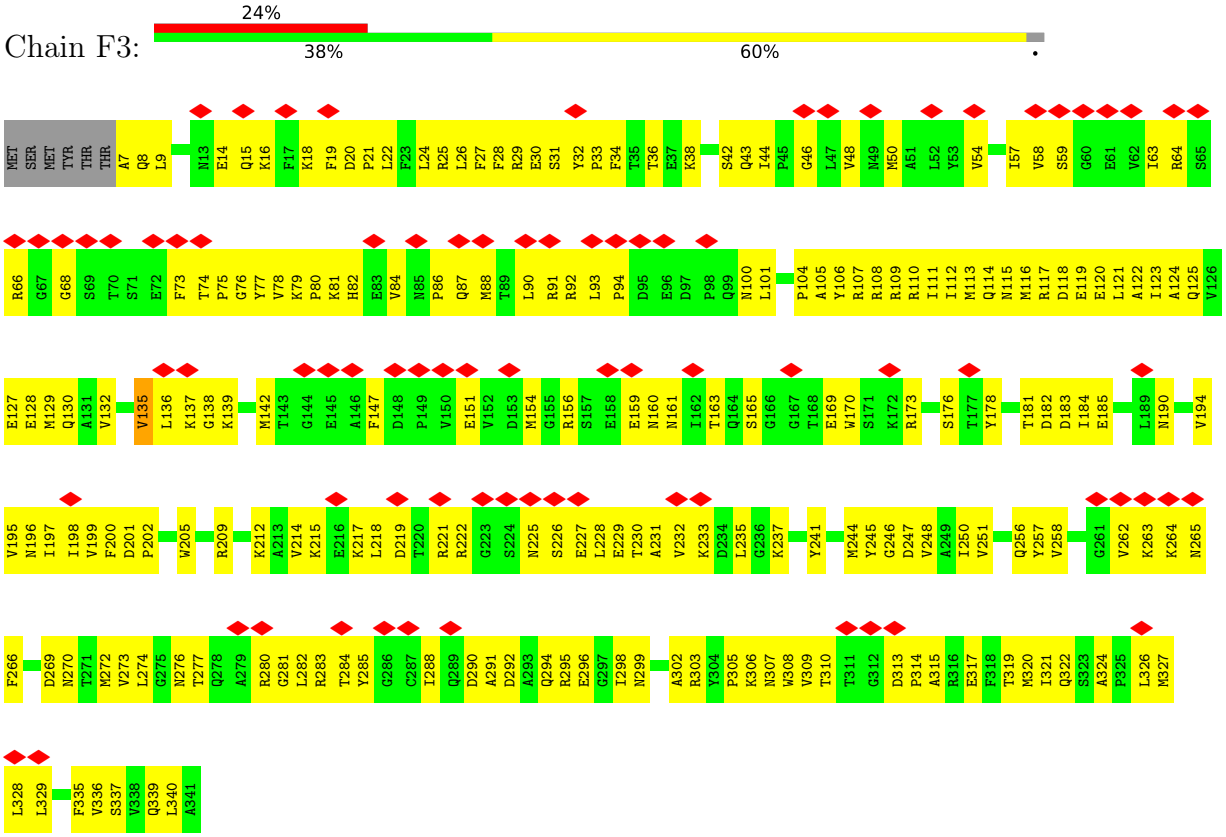
• Molecule 2: Major capsid protein

Chain E3:



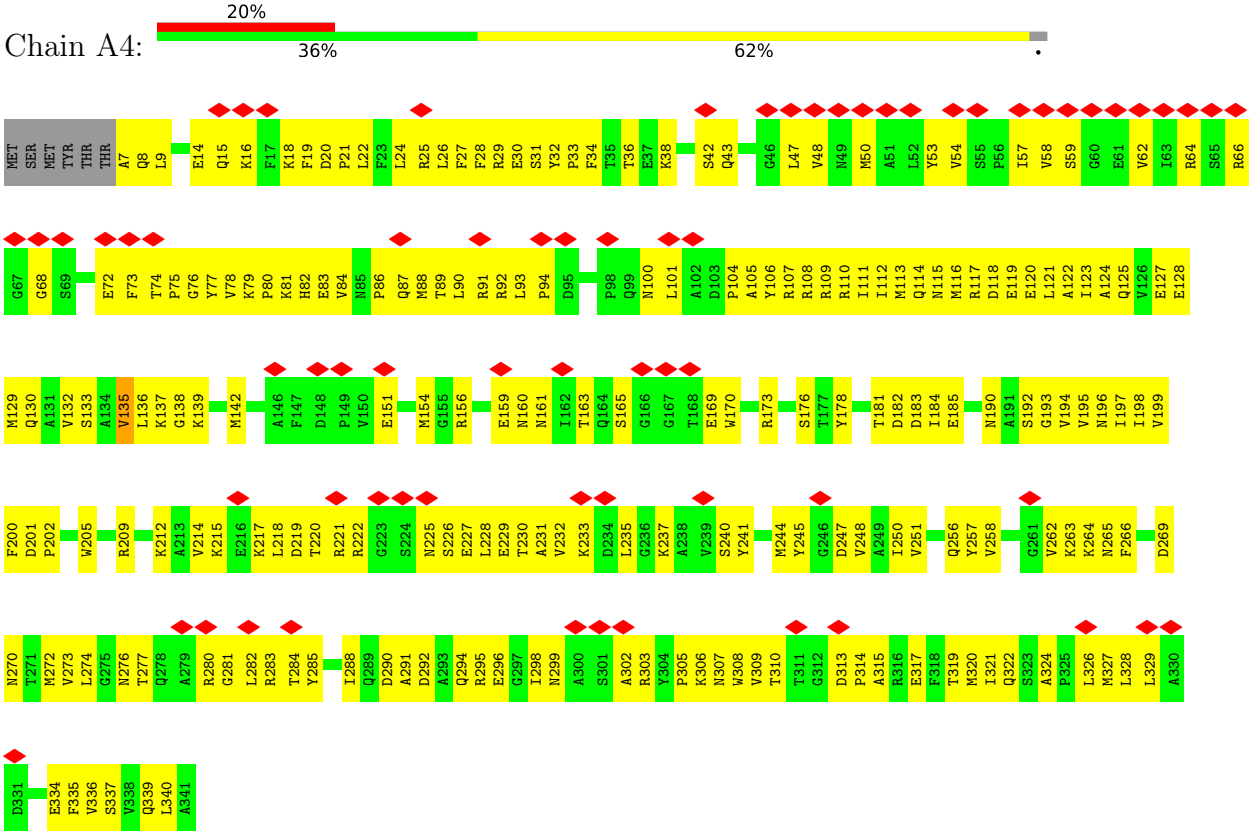
• Molecule 2: Major capsid protein

Chain F3:



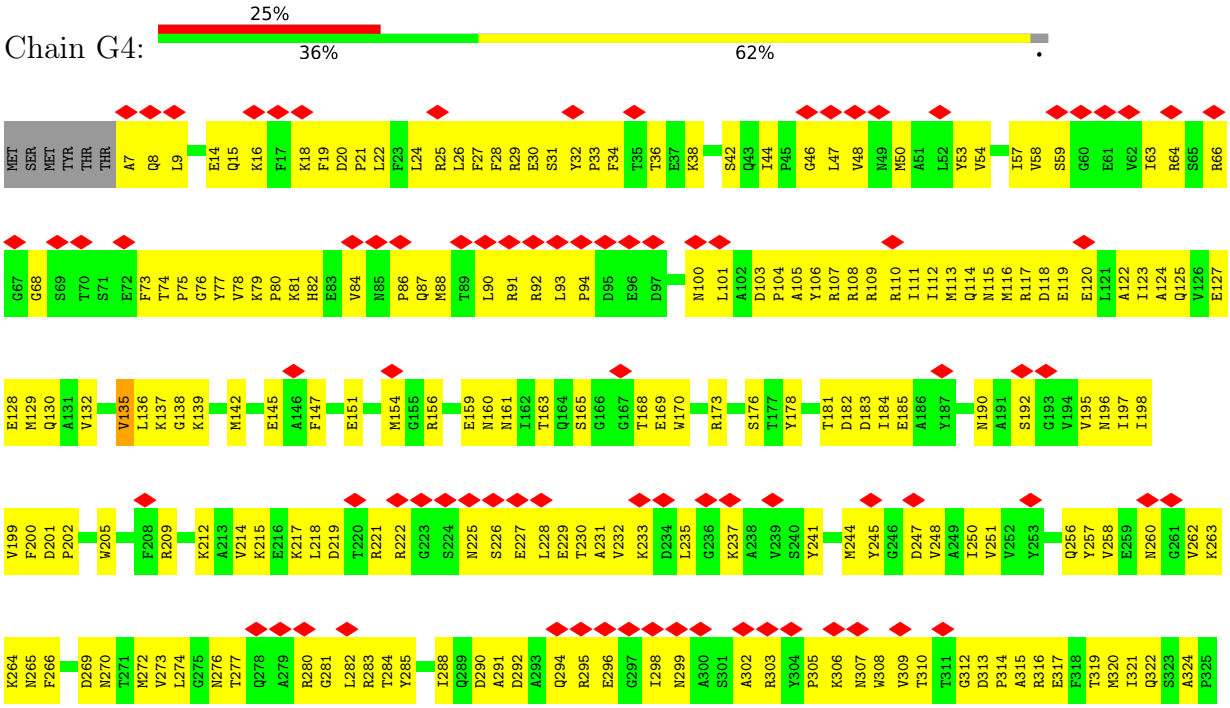
• Molecule 2: Major capsid protein

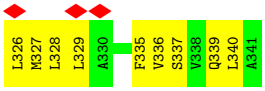
Chain A4:



• Molecule 2: Major capsid protein

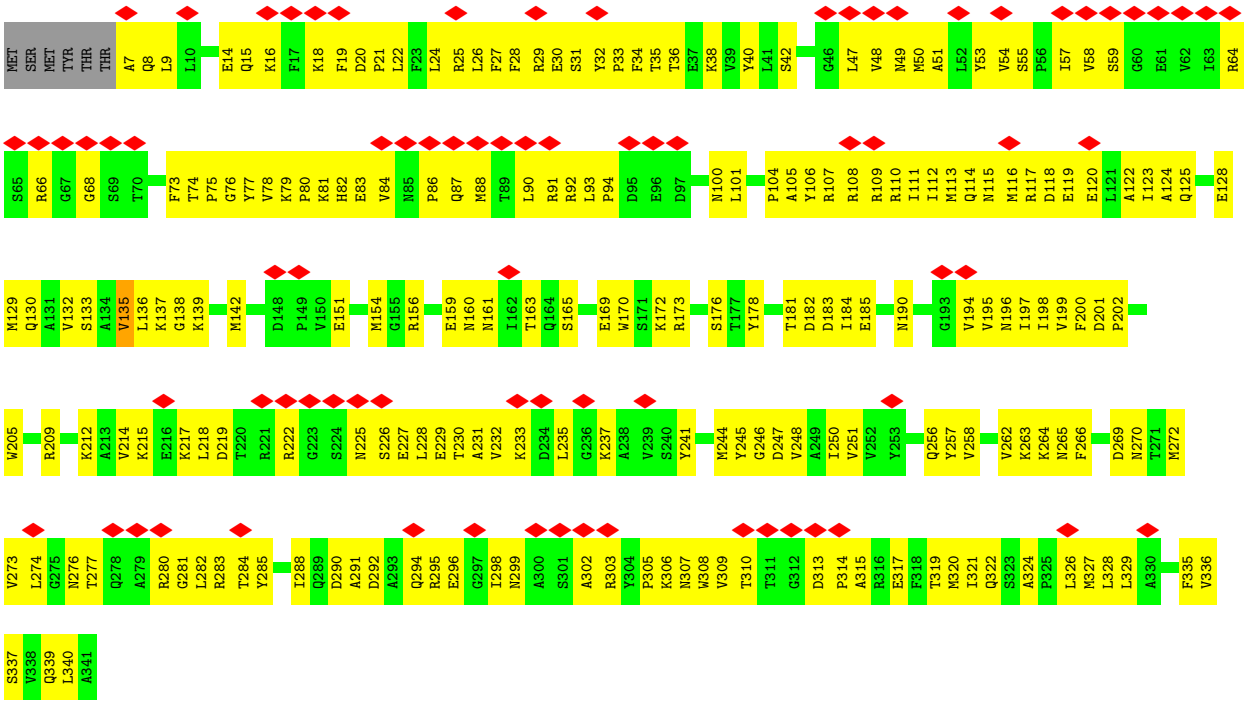
Chain G4:





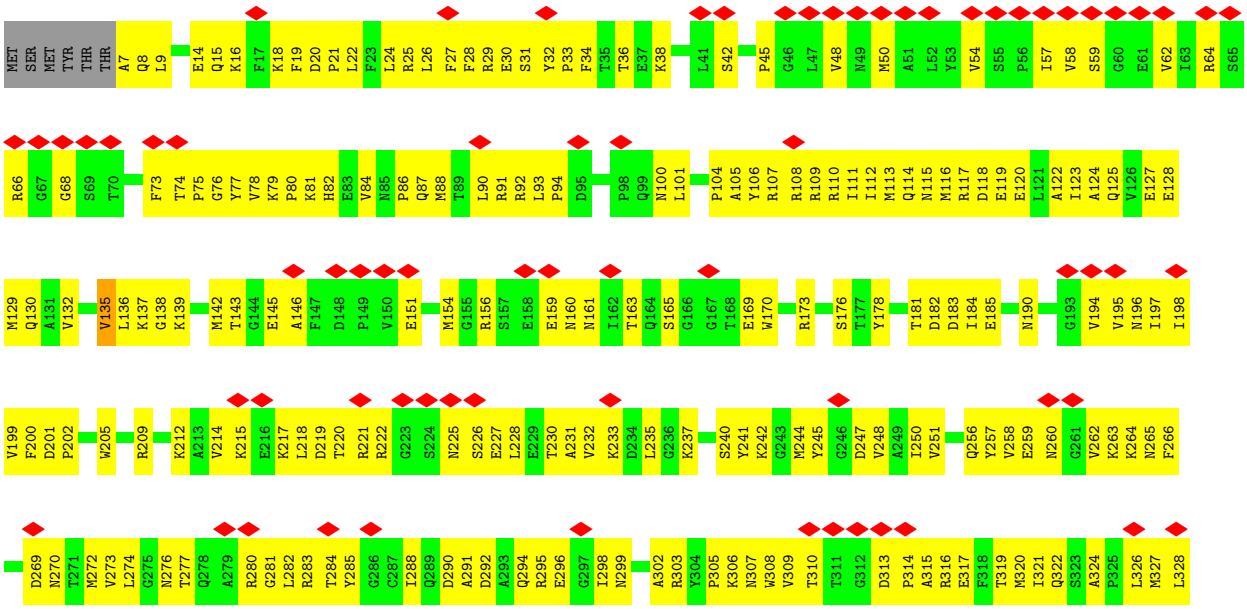
• Molecule 2: Major capsid protein

Chain C4:



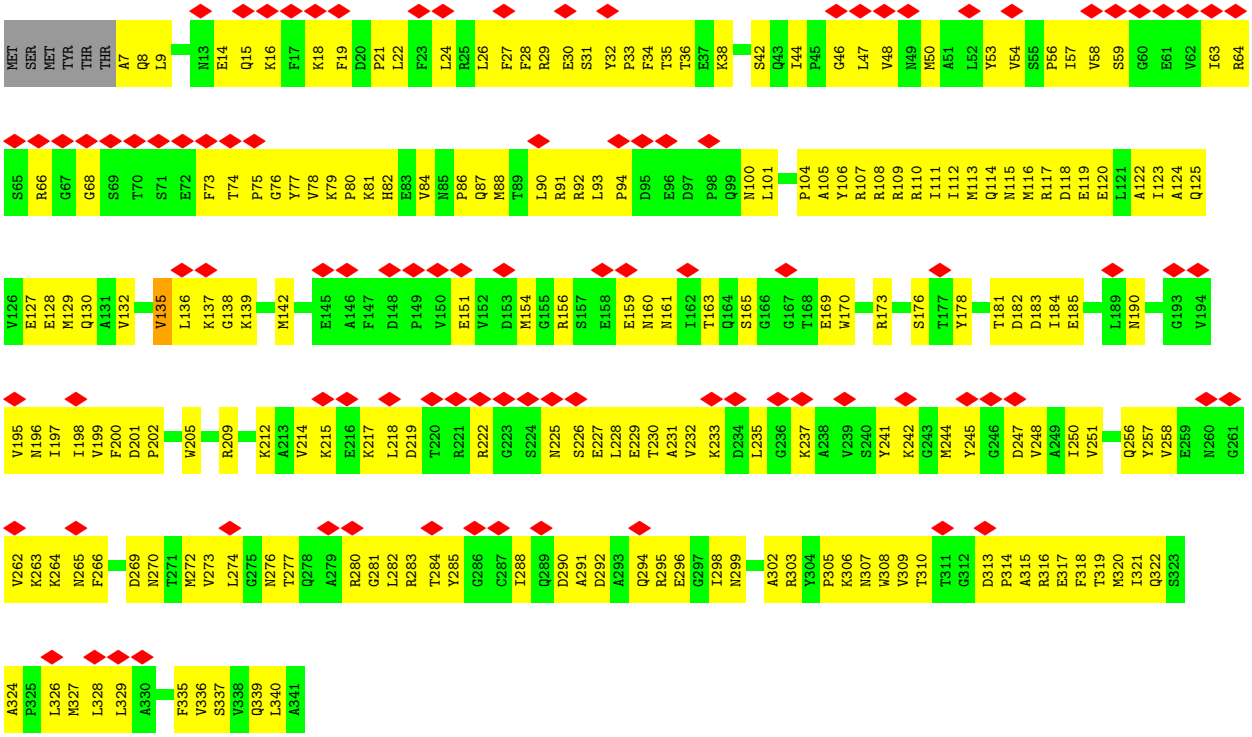
• Molecule 2: Major capsid protein

Chain D4:



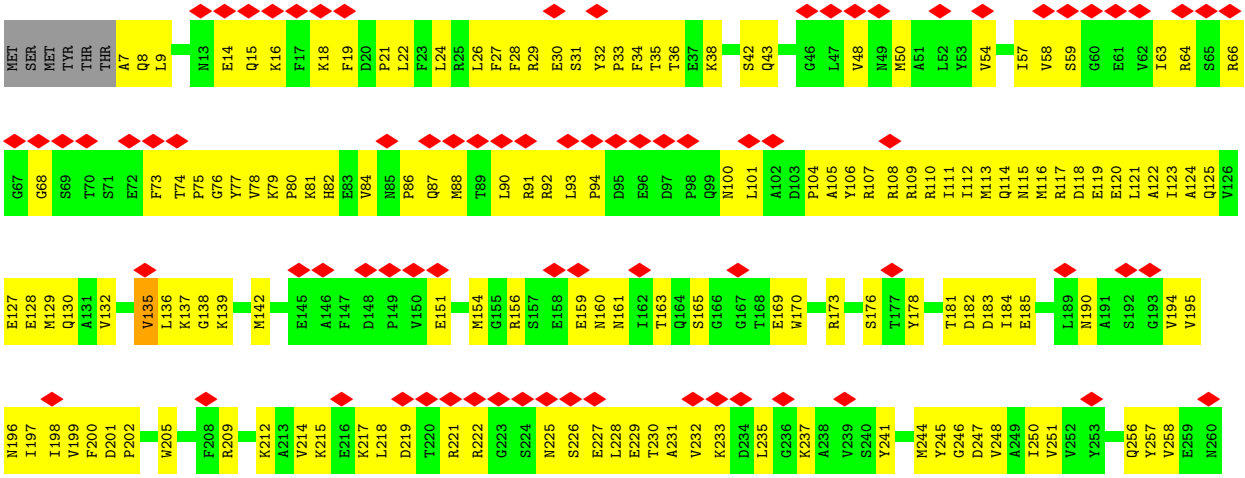
• Molecule 2: Major capsid protein

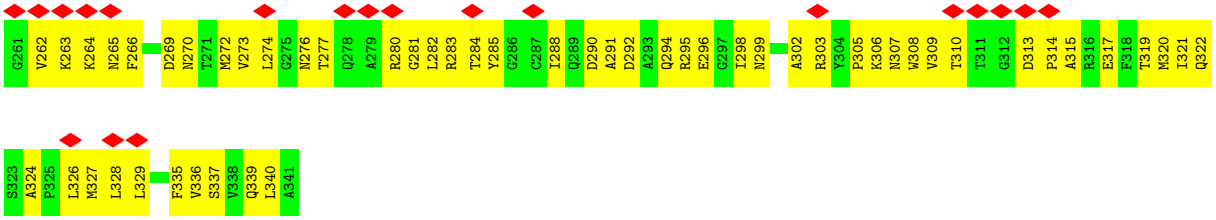
Chain E4:



• Molecule 2: Major capsid protein

Chain F4:




G261
V262
K263
K264
N265
F266
D269
N270
T271
M272
V273
L274
G275
N276
T277
Q278
A279
R280
G281
L282
R283
T284
Y285
G286
C287
I288
Q289
D290
A291
D292
A293
Q294
R295
E296
G297
I298
N299
A302
R303
Y304
P305
K306
N307
W308
V309
T310
T311
G312
D313
P314
A315
R316
E317
F318
T319
M320
I321
Q322
S323
A324
P325
L326
M327
L328
L329
F335
V336
S337
W338
Q339
L340
A341

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	50921	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.826	Depositor
Minimum map value	-0.434	Depositor
Average map value	0.003	Depositor
Map value standard deviation	0.097	Depositor
Recommended contour level	0.3	Depositor
Map size (Å)	334.47424, 334.47424, 334.47424	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.30654, 1.30654, 1.30654	Depositor

5 Model quality

5.1 Standard geometry

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	B	0.23	0/3793	0.60	1/5131 (0.0%)
1	B1	0.23	0/3793	0.60	1/5131 (0.0%)
1	B2	0.23	0/3793	0.60	1/5131 (0.0%)
1	B3	0.23	0/3793	0.60	1/5131 (0.0%)
1	B4	0.23	0/3793	0.60	1/5131 (0.0%)
1	B5	0.23	0/3793	0.60	1/5131 (0.0%)
1	b	0.23	0/3793	0.60	1/5131 (0.0%)
1	b1	0.23	0/3793	0.60	1/5131 (0.0%)
1	b2	0.23	0/3793	0.60	1/5131 (0.0%)
1	b3	0.23	0/3793	0.60	1/5131 (0.0%)
1	b4	0.23	0/3793	0.60	1/5131 (0.0%)
1	b5	0.23	0/3793	0.60	1/5131 (0.0%)
2	A0	0.20	0/2687	0.59	0/3637
2	A1	0.20	0/2687	0.59	0/3637
2	A2	0.20	0/2687	0.59	0/3637
2	A3	0.20	0/2687	0.59	0/3637
2	A4	0.20	0/2687	0.59	0/3637
2	C0	0.20	0/2687	0.59	0/3637
2	C1	0.20	0/2687	0.59	0/3637
2	C2	0.20	0/2687	0.59	0/3637
2	C3	0.20	0/2687	0.59	0/3637
2	C4	0.20	0/2687	0.59	0/3637
2	D0	0.20	0/2687	0.59	0/3637
2	D1	0.20	0/2687	0.59	0/3637
2	D2	0.20	0/2687	0.59	0/3637
2	D3	0.20	0/2687	0.59	0/3637
2	D4	0.20	0/2687	0.59	0/3637
2	E0	0.20	0/2687	0.59	0/3637
2	E1	0.20	0/2687	0.59	0/3637
2	E2	0.20	0/2687	0.59	0/3637
2	E3	0.20	0/2687	0.59	0/3637
2	E4	0.20	0/2687	0.59	0/3637
2	F0	0.20	0/2687	0.59	0/3637
2	F1	0.20	0/2687	0.59	0/3637

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	F2	0.20	0/2687	0.59	0/3637
2	F3	0.20	0/2687	0.59	0/3637
2	F4	0.20	0/2687	0.59	0/3637
2	G0	0.20	0/2687	0.59	0/3637
2	G1	0.20	0/2687	0.59	0/3637
2	G2	0.20	0/2687	0.59	0/3637
2	G3	0.20	0/2687	0.59	0/3637
2	G4	0.20	0/2687	0.59	0/3637
All	All	0.21	0/126126	0.59	12/170682 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	4
1	B1	0	4
1	B2	0	4
1	B3	0	4
1	B4	0	4
1	B5	0	4
1	b	0	4
1	b1	0	4
1	b2	0	4
1	b3	0	4
1	b4	0	4
1	b5	0	4
2	A0	0	1
2	A1	0	1
2	A2	0	1
2	A3	0	1
2	A4	0	1
2	C0	0	1
2	C1	0	1
2	C2	0	1
2	C3	0	1
2	C4	0	1
2	D0	0	1
2	D1	0	1
2	D2	0	1
2	D3	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
2	D4	0	1
2	E0	0	1
2	E1	0	1
2	E2	0	1
2	E3	0	1
2	E4	0	1
2	F0	0	1
2	F1	0	1
2	F2	0	1
2	F3	0	1
2	F4	0	1
2	G0	0	1
2	G1	0	1
2	G2	0	1
2	G3	0	1
2	G4	0	1
All	All	0	78

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b4	375	ARG	CB-CG-CD	6.92	127.21	111.30
1	B	375	ARG	CB-CG-CD	6.91	127.18	111.30
1	b	375	ARG	CB-CG-CD	6.90	127.17	111.30
1	B3	375	ARG	CB-CG-CD	6.90	127.17	111.30
1	B4	375	ARG	CB-CG-CD	6.90	127.17	111.30
1	B2	375	ARG	CB-CG-CD	6.89	127.15	111.30
1	B5	375	ARG	CB-CG-CD	6.89	127.15	111.30
1	b2	375	ARG	CB-CG-CD	6.88	127.13	111.30
1	b3	375	ARG	CB-CG-CD	6.88	127.12	111.30
1	b1	375	ARG	CB-CG-CD	6.88	127.12	111.30
1	b5	375	ARG	CB-CG-CD	6.87	127.11	111.30
1	B1	375	ARG	CB-CG-CD	6.87	127.10	111.30

There are no chirality outliers.

All (78) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	A0	135	VAL	Peptide
2	A1	135	VAL	Peptide

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Mol	Chain	Res	Type	Group
2	A2	135	VAL	Peptide
2	A3	135	VAL	Peptide
2	A4	135	VAL	Peptide
1	B	321	ALA	Peptide
1	B	364	ALA	Peptide
1	B	374	SER	Peptide
1	B	375	ARG	Sidechain
1	B1	321	ALA	Peptide
1	B1	364	ALA	Peptide
1	B1	374	SER	Peptide
1	B1	375	ARG	Sidechain
1	B2	321	ALA	Peptide
1	B2	364	ALA	Peptide
1	B2	374	SER	Peptide
1	B2	375	ARG	Sidechain
1	B3	321	ALA	Peptide
1	B3	364	ALA	Peptide
1	B3	374	SER	Peptide
1	B3	375	ARG	Sidechain
1	B4	321	ALA	Peptide
1	B4	364	ALA	Peptide
1	B4	374	SER	Peptide
1	B4	375	ARG	Sidechain
1	B5	321	ALA	Peptide
1	B5	364	ALA	Peptide
1	B5	374	SER	Peptide
1	B5	375	ARG	Sidechain
2	C0	135	VAL	Peptide
2	C1	135	VAL	Peptide
2	C2	135	VAL	Peptide
2	C3	135	VAL	Peptide
2	C4	135	VAL	Peptide
2	D0	135	VAL	Peptide
2	D1	135	VAL	Peptide
2	D2	135	VAL	Peptide
2	D3	135	VAL	Peptide
2	D4	135	VAL	Peptide
2	E0	135	VAL	Peptide
2	E1	135	VAL	Peptide
2	E2	135	VAL	Peptide
2	E3	135	VAL	Peptide
2	E4	135	VAL	Peptide

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Mol	Chain	Res	Type	Group
2	F0	135	VAL	Peptide
2	F1	135	VAL	Peptide
2	F2	135	VAL	Peptide
2	F3	135	VAL	Peptide
2	F4	135	VAL	Peptide
2	G0	135	VAL	Peptide
2	G1	135	VAL	Peptide
2	G2	135	VAL	Peptide
2	G3	135	VAL	Peptide
2	G4	135	VAL	Peptide
1	b	321	ALA	Peptide
1	b	364	ALA	Peptide
1	b	374	SER	Peptide
1	b	375	ARG	Sidechain
1	b1	321	ALA	Peptide
1	b1	364	ALA	Peptide
1	b1	374	SER	Peptide
1	b1	375	ARG	Sidechain
1	b2	321	ALA	Peptide
1	b2	364	ALA	Peptide
1	b2	374	SER	Peptide
1	b2	375	ARG	Sidechain
1	b3	321	ALA	Peptide
1	b3	364	ALA	Peptide
1	b3	374	SER	Peptide
1	b3	375	ARG	Sidechain
1	b4	321	ALA	Peptide
1	b4	364	ALA	Peptide
1	b4	374	SER	Peptide
1	b4	375	ARG	Sidechain
1	b5	321	ALA	Peptide
1	b5	364	ALA	Peptide
1	b5	374	SER	Peptide
1	b5	375	ARG	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	3711	0	3533	309	0
1	B1	3711	0	3533	312	0
1	B2	3711	0	3533	320	0
1	B3	3711	0	3533	302	0
1	B4	3711	0	3533	305	0
1	B5	3711	0	3533	304	0
1	b	3711	0	3533	298	0
1	b1	3711	0	3533	315	0
1	b2	3711	0	3533	309	0
1	b3	3711	0	3533	302	0
1	b4	3711	0	3533	309	0
1	b5	3711	0	3533	301	0
2	A0	2635	0	2601	229	0
2	A1	2635	0	2601	225	0
2	A2	2635	0	2601	227	0
2	A3	2635	0	2601	229	0
2	A4	2635	0	2601	229	0
2	C0	2635	0	2601	241	0
2	C1	2635	0	2601	225	0
2	C2	2635	0	2601	236	0
2	C3	2635	0	2601	225	0
2	C4	2635	0	2601	226	0
2	D0	2635	0	2601	238	0
2	D1	2635	0	2601	240	0
2	D2	2635	0	2601	238	0
2	D3	2635	0	2601	239	0
2	D4	2635	0	2601	232	0
2	E0	2635	0	2601	220	0
2	E1	2635	0	2601	223	0
2	E2	2635	0	2601	229	0
2	E3	2635	0	2601	223	0
2	E4	2635	0	2601	223	0
2	F0	2635	0	2601	216	0
2	F1	2635	0	2601	216	0
2	F2	2635	0	2601	220	0
2	F3	2635	0	2601	219	0
2	F4	2635	0	2601	214	0
2	G0	2635	0	2601	241	0
2	G1	2635	0	2601	234	0
2	G2	2635	0	2601	234	0
2	G3	2635	0	2601	237	0
2	G4	2635	0	2601	236	0
All	All	123582	0	120426	9229	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 38.

All (9229) 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:B:181:ASN:ND2	2:G1:99:GLN:O	1.62	1.32
2:A0:33:PRO:HG2	2:G0:92:ARG:HH21	1.07	1.15
2:A1:33:PRO:HG2	2:G1:92:ARG:HH21	1.07	1.15
1:b1:36:ARG:HD2	2:G0:295:ARG:HG2	1.28	1.15
1:B2:36:ARG:CB	2:C0:104:PRO:HG3	1.75	1.15
2:A2:33:PRO:HG2	2:G2:92:ARG:HH21	1.07	1.15
2:A3:33:PRO:HG2	2:G3:92:ARG:HH21	1.07	1.13
2:A4:33:PRO:HG2	2:G4:92:ARG:HH21	1.07	1.13
1:B2:36:ARG:HB2	2:C0:104:PRO:CG	1.79	1.12
1:B2:36:ARG:HB2	2:C0:104:PRO:HG3	1.15	1.08
1:b2:184:GLY:N	2:G4:103:ASP:OD2	1.86	1.07
1:B2:374:SER:HA	1:b2:364:ALA:HB3	1.36	1.06
1:B1:374:SER:HA	1:b1:364:ALA:HB3	1.36	1.05
1:b1:374:SER:HA	1:B2:364:ALA:HB3	1.36	1.05
1:B3:374:SER:HA	1:b3:364:ALA:HB3	1.33	1.05
1:b4:374:SER:HA	1:B5:364:ALA:HB3	1.35	1.05
1:B:364:ALA:HB3	1:b5:374:SER:HA	1.36	1.04
1:b2:374:SER:HA	1:B3:364:ALA:HB3	1.38	1.04
1:B:370:TYR:HB3	1:b:360:ARG:HH22	1.22	1.03
1:B:374:SER:HA	1:b:364:ALA:HB3	1.35	1.03
1:b:374:SER:HA	1:B1:364:ALA:HB3	1.38	1.03
2:D1:45:PRO:HD3	2:E1:88:MET:HE2	1.41	1.03
2:D2:45:PRO:HD3	2:E2:88:MET:HE2	1.40	1.03
1:B5:374:SER:HA	1:b5:364:ALA:HB3	1.36	1.02
2:G0:50:MET:HE1	2:C0:125:GLN:HG2	1.42	1.02
2:D0:45:PRO:HD3	2:E0:88:MET:HE2	1.40	1.02
1:B4:374:SER:HA	1:b4:364:ALA:HB3	1.36	1.02
1:B1:370:TYR:HB3	1:b1:360:ARG:HH22	1.24	1.01
2:G1:50:MET:HE1	2:C1:125:GLN:HG2	1.41	1.01
1:B1:214:TRP:CB	2:G0:103:ASP:OD2	2.08	1.00
2:E1:56:PRO:HB3	2:F1:77:TYR:HD1	1.26	1.00
1:b3:374:SER:HA	1:B4:364:ALA:HB3	1.37	1.00
2:D3:45:PRO:HD3	2:E3:88:MET:HE2	1.41	1.00
2:G4:50:MET:HE1	2:C4:125:GLN:HG2	1.42	1.00
2:E2:56:PRO:HB3	2:F2:77:TYR:HD1	1.26	1.00
1:b:370:TYR:HB3	1:B1:360:ARG:HH22	1.26	1.00
2:E0:56:PRO:HB3	2:F0:77:TYR:HD1	1.26	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D4:45:PRO:HD3	2:E4:88:MET:HE2	1.40	0.99
1:b1:36:ARG:CD	2:G0:295:ARG:HG2	1.92	0.99
1:B5:370:TYR:HB3	1:b5:360:ARG:HH22	1.25	0.99
2:D1:64:ARG:HH12	2:E1:316:ARG:HE	1.11	0.99
1:b1:370:TYR:HB3	1:B2:360:ARG:HH22	1.24	0.99
1:B:360:ARG:HH22	1:b5:370:TYR:HB3	1.27	0.98
2:A0:222:ARG:NH1	2:F0:246:GLY:O	1.96	0.98
2:G3:50:MET:HE1	2:C3:125:GLN:HG2	1.42	0.98
2:A4:222:ARG:NH1	2:F4:246:GLY:O	1.96	0.98
1:B2:370:TYR:HB3	1:b2:360:ARG:HH22	1.24	0.98
2:G2:50:MET:HE1	2:C2:125:GLN:HG2	1.42	0.98
2:E3:56:PRO:HB3	2:F3:77:TYR:HD1	1.26	0.98
1:B:181:ASN:ND2	2:G1:99:GLN:C	2.22	0.98
2:E4:56:PRO:HB3	2:F4:77:TYR:HD1	1.26	0.97
1:b4:370:TYR:HB3	1:B5:360:ARG:HH22	1.25	0.97
2:A2:222:ARG:NH1	2:F2:246:GLY:O	1.96	0.97
2:A3:222:ARG:NH1	2:F3:246:GLY:O	1.96	0.97
1:B4:370:TYR:HB3	1:b4:360:ARG:HH22	1.25	0.97
1:B3:370:TYR:HB3	1:b3:360:ARG:HH22	1.23	0.97
2:D4:64:ARG:HH12	2:E4:316:ARG:HE	1.11	0.96
2:A1:222:ARG:NH1	2:F1:246:GLY:O	1.96	0.96
1:b3:370:TYR:HB3	1:B4:360:ARG:HH22	1.26	0.96
1:B:368:VAL:HG23	1:B:373:LEU:HD11	1.48	0.96
1:B1:368:VAL:HG23	1:B1:373:LEU:HD11	1.48	0.96
1:b5:368:VAL:HG23	1:b5:373:LEU:HD11	1.48	0.96
1:B:181:ASN:HD21	2:G1:99:GLN:C	1.74	0.96
1:B5:368:VAL:HG23	1:B5:373:LEU:HD11	1.48	0.96
1:b:368:VAL:HG23	1:b:373:LEU:HD11	1.48	0.96
1:b1:368:VAL:HG23	1:b1:373:LEU:HD11	1.48	0.96
1:B:370:TYR:HB3	1:b:360:ARG:NH2	1.80	0.95
1:B2:368:VAL:HG23	1:B2:373:LEU:HD11	1.48	0.95
1:B3:370:TYR:HB3	1:b3:360:ARG:NH2	1.81	0.95
1:b1:370:TYR:HB3	1:B2:360:ARG:NH2	1.81	0.95
1:b4:368:VAL:HG23	1:b4:373:LEU:HD11	1.48	0.95
2:D2:64:ARG:HH12	2:E2:316:ARG:HE	1.11	0.95
1:B2:370:TYR:HB3	1:b2:360:ARG:NH2	1.82	0.95
1:B3:368:VAL:HG23	1:B3:373:LEU:HD11	1.48	0.95
1:B1:370:TYR:HB3	1:b1:360:ARG:NH2	1.81	0.95
1:b3:368:VAL:HG23	1:b3:373:LEU:HD11	1.48	0.95
1:b2:368:VAL:HG23	1:b2:373:LEU:HD11	1.48	0.94
1:b4:370:TYR:HB3	1:B5:360:ARG:NH2	1.81	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B3:376:ASN:H	1:b3:360:ARG:HH11	0.95	0.94
1:B5:370:TYR:HB3	1:b5:360:ARG:NH2	1.83	0.94
1:b2:370:TYR:HB3	1:B3:360:ARG:HH22	1.28	0.94
1:B4:368:VAL:HG23	1:B4:373:LEU:HD11	1.48	0.94
1:b3:370:TYR:HB3	1:B4:360:ARG:NH2	1.83	0.94
1:b:370:TYR:HB3	1:B1:360:ARG:NH2	1.83	0.94
1:B4:370:TYR:HB3	1:b4:360:ARG:NH2	1.82	0.94
2:D0:64:ARG:HH12	2:E0:316:ARG:HE	1.11	0.93
1:B:360:ARG:NH2	1:b5:370:TYR:HB3	1.83	0.93
2:A3:91:ARG:NH2	2:F3:31:SER:O	2.02	0.93
2:D3:64:ARG:HH12	2:E3:316:ARG:HE	1.11	0.93
1:B2:376:ASN:H	1:b2:360:ARG:HH11	0.93	0.93
2:A0:91:ARG:NH2	2:F0:31:SER:O	2.02	0.93
2:A3:33:PRO:HG2	2:G3:92:ARG:NH2	1.84	0.92
1:B5:376:ASN:H	1:b5:360:ARG:HH11	0.93	0.92
2:A4:33:PRO:HG2	2:G4:92:ARG:NH2	1.84	0.92
2:A4:91:ARG:NH2	2:F4:31:SER:O	2.02	0.92
1:B:376:ASN:H	1:b:360:ARG:HH11	0.95	0.92
2:A0:33:PRO:HG2	2:G0:92:ARG:NH2	1.84	0.92
1:B4:376:ASN:H	1:b4:360:ARG:HH11	0.92	0.91
1:b4:376:ASN:H	1:B5:360:ARG:HH11	0.93	0.91
2:A1:33:PRO:HG2	2:G1:92:ARG:NH2	1.84	0.91
2:A1:91:ARG:NH2	2:F1:31:SER:O	2.01	0.91
2:A2:33:PRO:HG2	2:G2:92:ARG:NH2	1.84	0.91
1:b3:376:ASN:H	1:B4:360:ARG:HH11	0.91	0.91
2:A2:91:ARG:NH2	2:F2:31:SER:O	2.02	0.91
1:b2:370:TYR:HB3	1:B3:360:ARG:NH2	1.85	0.91
1:b2:376:ASN:H	1:B3:360:ARG:NH1	1.69	0.90
1:B:360:ARG:HH11	1:b5:376:ASN:H	0.91	0.90
1:B1:376:ASN:H	1:b1:360:ARG:HH11	0.93	0.90
1:b2:376:ASN:H	1:B3:360:ARG:HH11	0.90	0.90
1:b1:376:ASN:H	1:B2:360:ARG:HH11	0.92	0.89
1:b3:376:ASN:H	1:B4:360:ARG:NH1	1.70	0.89
1:b:376:ASN:H	1:B1:360:ARG:HH11	0.91	0.89
1:B4:376:ASN:H	1:b4:360:ARG:NH1	1.72	0.88
1:B:360:ARG:NH1	1:b5:376:ASN:H	1.71	0.88
1:b:376:ASN:H	1:B1:360:ARG:NH1	1.70	0.88
1:B3:375:ARG:HH12	1:b3:370:TYR:HB2	1.38	0.88
2:E3:76:GLY:HA2	2:E3:142:MET:HE1	1.56	0.88
2:C0:76:GLY:HA2	2:C0:142:MET:HE1	1.56	0.88
2:D0:76:GLY:HA2	2:D0:142:MET:HE1	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C1:76:GLY:HA2	2:C1:142:MET:HE1	1.56	0.88
2:A2:76:GLY:HA2	2:A2:142:MET:HE1	1.56	0.88
2:A3:76:GLY:HA2	2:A3:142:MET:HE1	1.56	0.88
2:C2:76:GLY:HA2	2:C2:142:MET:HE1	1.56	0.88
2:C4:76:GLY:HA2	2:C4:142:MET:HE1	1.56	0.88
2:G4:76:GLY:HA2	2:G4:142:MET:HE1	1.56	0.88
2:A0:221:ARG:NH2	2:F0:217:LYS:O	2.07	0.87
2:E1:76:GLY:HA2	2:E1:142:MET:HE1	1.56	0.87
2:G3:76:GLY:HA2	2:G3:142:MET:HE1	1.56	0.87
2:A1:76:GLY:HA2	2:A1:142:MET:HE1	1.56	0.87
2:A4:76:GLY:HA2	2:A4:142:MET:HE1	1.56	0.87
1:b5:259:LYS:HZ2	1:b5:260:MET:HE3	1.36	0.87
1:b4:376:ASN:H	1:B5:360:ARG:NH1	1.72	0.87
2:A1:222:ARG:HH22	2:F1:247:ASP:HA	1.39	0.87
2:G1:313:ASP:OD1	2:G2:59:SER:N	2.07	0.87
2:A0:222:ARG:HH22	2:F0:247:ASP:HA	1.39	0.87
2:E0:76:GLY:HA2	2:E0:142:MET:HE1	1.56	0.87
2:A2:220:THR:HG21	2:F2:217:LYS:HE2	1.56	0.87
2:F3:76:GLY:HA2	2:F3:142:MET:HE1	1.56	0.87
2:A4:221:ARG:NH2	2:F4:217:LYS:O	2.07	0.87
1:B2:376:ASN:H	1:b2:360:ARG:NH1	1.73	0.87
1:b4:375:ARG:HH12	1:B5:370:TYR:HB2	1.39	0.87
2:G0:313:ASP:OD1	2:G1:59:SER:N	2.07	0.87
2:A3:221:ARG:NH2	2:F3:217:LYS:O	2.07	0.87
1:b1:376:ASN:H	1:B2:360:ARG:NH1	1.72	0.87
2:A0:76:GLY:HA2	2:A0:142:MET:HE1	1.56	0.87
2:G0:76:GLY:HA2	2:G0:142:MET:HE1	1.56	0.86
2:G1:76:GLY:HA2	2:G1:142:MET:HE1	1.56	0.86
2:A2:221:ARG:NH2	2:F2:217:LYS:O	2.07	0.86
2:A4:220:THR:HG21	2:F4:217:LYS:HE2	1.56	0.86
1:B:375:ARG:HH12	1:b:370:TYR:HB2	1.39	0.86
1:B2:39:ASN:ND2	2:C0:103:ASP:OD1	2.08	0.86
2:A1:220:THR:HG21	2:F1:217:LYS:HE2	1.56	0.86
2:G2:76:GLY:HA2	2:G2:142:MET:HE1	1.56	0.86
2:D3:76:GLY:HA2	2:D3:142:MET:HE1	1.56	0.86
2:D4:76:GLY:HA2	2:D4:142:MET:HE1	1.56	0.86
1:b1:375:ARG:HH12	1:B2:370:TYR:HB2	1.40	0.86
1:B5:376:ASN:H	1:b5:360:ARG:NH1	1.72	0.86
2:D1:76:GLY:HA2	2:D1:142:MET:HE1	1.56	0.86
2:G2:313:ASP:OD1	2:G3:59:SER:N	2.07	0.86
2:C3:76:GLY:HA2	2:C3:142:MET:HE1	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E4:76:GLY:HA2	2:E4:142:MET:HE1	1.56	0.86
2:E0:56:PRO:HB3	2:F0:77:TYR:CD1	2.11	0.86
2:A2:222:ARG:HH22	2:F2:247:ASP:HA	1.39	0.86
2:G0:59:SER:N	2:G4:313:ASP:OD1	2.07	0.86
2:A1:221:ARG:NH2	2:F1:217:LYS:O	2.07	0.86
2:D2:76:GLY:HA2	2:D2:142:MET:HE1	1.56	0.86
2:F2:76:GLY:HA2	2:F2:142:MET:HE1	1.56	0.86
2:E4:56:PRO:HB3	2:F4:77:TYR:CD1	2.11	0.86
2:F0:76:GLY:HA2	2:F0:142:MET:HE1	1.56	0.86
2:G3:313:ASP:OD1	2:G4:59:SER:N	2.07	0.86
2:E3:56:PRO:HB3	2:F3:77:TYR:CD1	2.11	0.86
1:B:370:TYR:HB2	1:b5:375:ARG:HH12	1.40	0.85
2:F4:76:GLY:HA2	2:F4:142:MET:HE1	1.56	0.85
2:A0:220:THR:HG21	2:F0:217:LYS:HE2	1.56	0.85
2:E2:76:GLY:HA2	2:E2:142:MET:HE1	1.56	0.85
2:F1:76:GLY:HA2	2:F1:142:MET:HE1	1.56	0.85
2:A3:220:THR:HG21	2:F3:217:LYS:HE2	1.56	0.85
2:E1:56:PRO:HB3	2:F1:77:TYR:CD1	2.11	0.85
1:b2:374:SER:O	1:B3:360:ARG:HD2	1.77	0.85
1:B4:375:ARG:HH12	1:b4:370:TYR:HB2	1.41	0.85
2:E2:56:PRO:HB3	2:F2:77:TYR:CD1	2.11	0.85
2:A3:222:ARG:HH22	2:F3:247:ASP:HA	1.39	0.85
2:A4:222:ARG:HH22	2:F4:247:ASP:HA	1.39	0.85
1:B1:376:ASN:H	1:b1:360:ARG:NH1	1.73	0.84
2:D1:33:PRO:O	2:E1:92:ARG:NH2	2.11	0.84
2:D4:33:PRO:O	2:E4:92:ARG:NH2	2.11	0.84
1:B3:376:ASN:H	1:b3:360:ARG:NH1	1.75	0.84
2:G1:47:LEU:HD11	2:C1:258:VAL:HG11	1.60	0.84
1:B2:257:GLN:HE22	1:B2:362:ILE:HG21	1.43	0.84
1:B3:257:GLN:HE22	1:B3:362:ILE:HG21	1.43	0.84
1:b3:374:SER:O	1:B4:360:ARG:HD2	1.77	0.84
1:B5:374:SER:O	1:b5:360:ARG:HD2	1.77	0.84
2:D0:33:PRO:O	2:E0:92:ARG:NH2	2.11	0.84
2:D2:33:PRO:O	2:E2:92:ARG:NH2	2.11	0.84
1:B:360:ARG:HH11	1:b5:376:ASN:N	1.75	0.84
1:b:257:GLN:NE2	1:b:362:ILE:HG21	1.93	0.84
1:b:374:SER:O	1:B1:360:ARG:HD2	1.76	0.84
1:B1:257:GLN:NE2	1:B1:362:ILE:HG21	1.93	0.84
1:B1:257:GLN:HE22	1:B1:362:ILE:HG21	1.43	0.84
1:b2:257:GLN:NE2	1:b2:362:ILE:HG21	1.93	0.84
1:b3:375:ARG:HH12	1:B4:370:TYR:HB2	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:257:GLN:NE2	1:B:362:ILE:HG21	1.93	0.83
1:B2:375:ARG:HH12	1:b2:370:TYR:HB2	1.42	0.83
1:B1:375:ARG:HH12	1:b1:370:TYR:HB2	1.41	0.83
1:B4:257:GLN:NE2	1:B4:362:ILE:HG21	1.93	0.83
1:B2:374:SER:O	1:b2:360:ARG:HD2	1.78	0.83
1:B1:374:SER:O	1:b1:360:ARG:HD2	1.77	0.83
1:b3:257:GLN:NE2	1:b3:362:ILE:HG21	1.93	0.83
2:G2:47:LEU:HD11	2:C2:258:VAL:HG11	1.60	0.83
1:b1:257:GLN:NE2	1:b1:362:ILE:HG21	1.93	0.83
2:G3:47:LEU:HD11	2:C3:258:VAL:HG11	1.60	0.83
1:B5:375:ARG:HH12	1:b5:370:TYR:HB2	1.43	0.83
1:b1:374:SER:O	1:B2:360:ARG:HD2	1.78	0.83
1:B4:257:GLN:HE22	1:B4:362:ILE:HG21	1.43	0.83
1:b4:257:GLN:NE2	1:b4:362:ILE:HG21	1.93	0.83
1:B:257:GLN:HE22	1:B:362:ILE:HG21	1.43	0.83
1:b2:376:ASN:N	1:B3:360:ARG:HH11	1.74	0.83
1:B3:257:GLN:NE2	1:B3:362:ILE:HG21	1.93	0.83
1:b4:257:GLN:HE22	1:b4:362:ILE:HG21	1.43	0.83
1:b:375:ARG:HH12	1:B1:370:TYR:HB2	1.43	0.83
1:B2:257:GLN:NE2	1:B2:362:ILE:HG21	1.93	0.83
1:b5:257:GLN:NE2	1:b5:362:ILE:HG21	1.93	0.83
1:b5:257:GLN:HE22	1:b5:362:ILE:HG21	1.43	0.82
1:B:376:ASN:H	1:b:360:ARG:NH1	1.74	0.82
1:b:376:ASN:N	1:B1:360:ARG:HH11	1.75	0.82
1:B5:257:GLN:NE2	1:B5:362:ILE:HG21	1.93	0.82
2:D3:33:PRO:O	2:E3:92:ARG:NH2	2.11	0.82
2:G4:47:LEU:HD11	2:C4:258:VAL:HG11	1.60	0.82
2:A4:53:TYR:OH	2:G4:145:GLU:O	1.98	0.82
1:b:257:GLN:HE22	1:b:362:ILE:HG21	1.43	0.82
2:G1:50:MET:SD	2:C1:122:ALA:HA	2.20	0.82
1:B4:374:SER:O	1:b4:360:ARG:HD2	1.78	0.82
2:A0:308:TRP:HE1	2:A0:320:MET:HB2	1.45	0.82
2:G0:50:MET:SD	2:C0:122:ALA:HA	2.20	0.82
2:C2:308:TRP:HE1	2:C2:320:MET:HB2	1.45	0.82
2:E4:308:TRP:HE1	2:E4:320:MET:HB2	1.45	0.82
2:E2:308:TRP:HE1	2:E2:320:MET:HB2	1.45	0.82
2:A3:53:TYR:OH	2:G3:145:GLU:O	1.98	0.82
2:F3:91:ARG:NH2	2:F3:92:ARG:O	2.13	0.82
1:B:374:SER:O	1:b:360:ARG:HD2	1.79	0.82
1:b3:376:ASN:N	1:B4:360:ARG:HH11	1.76	0.82
2:A3:308:TRP:HE1	2:A3:320:MET:HB2	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D3:308:TRP:HE1	2:D3:320:MET:HB2	1.45	0.82
2:A4:308:TRP:HE1	2:A4:320:MET:HB2	1.45	0.82
2:G4:50:MET:SD	2:C4:122:ALA:HA	2.20	0.82
2:C1:308:TRP:HE1	2:C1:320:MET:HB2	1.45	0.82
2:F2:308:TRP:HE1	2:F2:320:MET:HB2	1.45	0.82
2:F4:91:ARG:NH2	2:F4:92:ARG:O	2.13	0.82
1:b1:257:GLN:HE22	1:b1:362:ILE:HG21	1.43	0.82
2:G0:90:LEU:O	2:G0:92:ARG:NH1	2.13	0.82
2:F0:308:TRP:HE1	2:F0:320:MET:HB2	1.45	0.82
2:D1:90:LEU:O	2:D1:92:ARG:NH1	2.13	0.82
2:A2:90:LEU:O	2:A2:92:ARG:NH1	2.13	0.82
2:F4:308:TRP:HE1	2:F4:320:MET:HB2	1.45	0.82
2:A1:91:ARG:NH2	2:A1:92:ARG:O	2.13	0.82
2:G1:308:TRP:HE1	2:G1:320:MET:HB2	1.45	0.82
2:A2:308:TRP:HE1	2:A2:320:MET:HB2	1.45	0.82
2:C2:90:LEU:O	2:C2:92:ARG:NH1	2.13	0.82
2:D2:308:TRP:HE1	2:D2:320:MET:HB2	1.45	0.82
2:A3:30:GLU:HB3	2:A3:281:GLY:O	1.80	0.82
2:E0:30:GLU:HB3	2:E0:281:GLY:O	1.80	0.81
2:D1:91:ARG:NH2	2:D1:92:ARG:O	2.13	0.81
2:C3:30:GLU:HB3	2:C3:281:GLY:O	1.80	0.81
2:D3:30:GLU:HB3	2:D3:281:GLY:O	1.80	0.81
2:G4:308:TRP:HE1	2:G4:320:MET:HB2	1.45	0.81
2:A0:91:ARG:NH2	2:A0:92:ARG:O	2.13	0.81
2:G0:47:LEU:HD11	2:C0:258:VAL:HG11	1.60	0.81
2:D0:308:TRP:HE1	2:D0:320:MET:HB2	1.45	0.81
2:C1:90:LEU:O	2:C1:92:ARG:NH1	2.13	0.81
2:E1:90:LEU:O	2:E1:92:ARG:NH1	2.13	0.81
2:D4:308:TRP:HE1	2:D4:320:MET:HB2	1.45	0.81
2:E4:90:LEU:O	2:E4:92:ARG:NH1	2.13	0.81
2:C0:91:ARG:NH2	2:C0:92:ARG:O	2.13	0.81
2:E0:90:LEU:O	2:E0:92:ARG:NH1	2.13	0.81
2:G1:90:LEU:O	2:G1:92:ARG:NH1	2.13	0.81
2:C1:30:GLU:HB3	2:C1:281:GLY:O	1.80	0.81
2:F1:90:LEU:O	2:F1:92:ARG:NH1	2.13	0.81
2:A2:30:GLU:HB3	2:A2:281:GLY:O	1.80	0.81
2:D2:225:ASN:HA	2:E2:242:LYS:NZ	1.96	0.81
2:E2:30:GLU:HB3	2:E2:281:GLY:O	1.81	0.81
2:D3:91:ARG:NH2	2:D3:92:ARG:O	2.13	0.81
2:G4:90:LEU:O	2:G4:92:ARG:NH1	2.13	0.81
2:D4:30:GLU:HB3	2:D4:281:GLY:O	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F4:90:LEU:O	2:F4:92:ARG:NH1	2.13	0.81
1:b2:257:GLN:HE22	1:b2:362:ILE:HG21	1.43	0.81
1:b2:375:ARG:HH12	1:B3:370:TYR:HB2	1.45	0.81
2:E0:91:ARG:NH2	2:E0:92:ARG:O	2.13	0.81
2:E0:308:TRP:HE1	2:E0:320:MET:HB2	1.45	0.81
2:F0:90:LEU:O	2:F0:92:ARG:NH1	2.13	0.81
2:D2:90:LEU:O	2:D2:92:ARG:NH1	2.13	0.81
2:A3:90:LEU:O	2:A3:92:ARG:NH1	2.13	0.81
2:D3:225:ASN:HA	2:E3:242:LYS:NZ	1.96	0.81
2:F3:90:LEU:O	2:F3:92:ARG:NH1	2.13	0.81
1:B3:374:SER:O	1:b3:360:ARG:HD2	1.81	0.81
2:D0:90:LEU:O	2:D0:92:ARG:NH1	2.13	0.81
2:D1:308:TRP:HE1	2:D1:320:MET:HB2	1.45	0.81
2:E1:308:TRP:HE1	2:E1:320:MET:HB2	1.45	0.81
2:G3:50:MET:SD	2:C3:122:ALA:HA	2.20	0.81
1:b3:257:GLN:HE22	1:b3:362:ILE:HG21	1.43	0.81
2:A0:30:GLU:HB3	2:A0:281:GLY:O	1.81	0.81
2:G0:91:ARG:NH2	2:G0:92:ARG:O	2.13	0.81
2:A1:90:LEU:O	2:A1:92:ARG:NH1	2.13	0.81
2:E1:91:ARG:NH2	2:E1:92:ARG:O	2.13	0.81
2:E2:90:LEU:O	2:E2:92:ARG:NH1	2.13	0.81
2:G3:91:ARG:NH2	2:G3:92:ARG:O	2.13	0.81
2:E4:30:GLU:HB3	2:E4:281:GLY:O	1.81	0.81
1:B:360:ARG:HD2	1:b5:374:SER:O	1.79	0.81
2:F0:30:GLU:HB3	2:F0:281:GLY:O	1.80	0.81
2:D1:30:GLU:HB3	2:D1:281:GLY:O	1.80	0.81
2:G2:50:MET:SD	2:C2:122:ALA:HA	2.20	0.81
2:G3:30:GLU:HB3	2:G3:281:GLY:O	1.80	0.81
2:A4:30:GLU:HB3	2:A4:281:GLY:O	1.80	0.81
2:A4:90:LEU:O	2:A4:92:ARG:NH1	2.13	0.81
2:F4:30:GLU:HB3	2:F4:281:GLY:O	1.81	0.81
1:B5:257:GLN:HE22	1:B5:362:ILE:HG21	1.43	0.81
2:G0:30:GLU:HB3	2:G0:281:GLY:O	1.81	0.81
2:C3:91:ARG:NH2	2:C3:92:ARG:O	2.13	0.81
2:G4:31:SER:HA	2:G4:283:ARG:HB2	1.63	0.81
2:A0:90:LEU:O	2:A0:92:ARG:NH1	2.13	0.81
2:C0:30:GLU:HB3	2:C0:281:GLY:O	1.80	0.81
2:F1:308:TRP:HE1	2:F1:320:MET:HB2	1.45	0.81
2:A2:31:SER:HA	2:A2:283:ARG:HB2	1.63	0.81
2:D2:30:GLU:HB3	2:D2:281:GLY:O	1.81	0.81
2:F2:91:ARG:NH2	2:F2:92:ARG:O	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b4:374:SER:O	1:B5:360:ARG:HD2	1.80	0.81
2:D0:91:ARG:NH2	2:D0:92:ARG:O	2.13	0.81
2:F3:308:TRP:HE1	2:F3:320:MET:HB2	1.45	0.81
2:F4:31:SER:HA	2:F4:283:ARG:HB2	1.63	0.81
1:B4:376:ASN:N	1:b4:360:ARG:HH11	1.77	0.80
2:A0:31:SER:HA	2:A0:283:ARG:HB2	1.63	0.80
2:A0:83:GLU:OE2	2:F0:64:ARG:NH2	2.14	0.80
2:F0:31:SER:HA	2:F0:283:ARG:HB2	1.63	0.80
2:A1:53:TYR:OH	2:G1:145:GLU:O	1.98	0.80
2:A1:83:GLU:OE2	2:F1:64:ARG:NH2	2.14	0.80
2:C3:90:LEU:O	2:C3:92:ARG:NH1	2.13	0.80
2:G0:31:SER:HA	2:G0:283:ARG:HB2	1.63	0.80
2:C0:90:LEU:O	2:C0:92:ARG:NH1	2.13	0.80
2:E0:31:SER:HA	2:E0:283:ARG:HB2	1.63	0.80
2:A1:308:TRP:HE1	2:A1:320:MET:HB2	1.45	0.80
2:C2:30:GLU:HB3	2:C2:281:GLY:O	1.80	0.80
2:G3:308:TRP:HE1	2:G3:320:MET:HB2	1.45	0.80
2:E3:91:ARG:NH2	2:E3:92:ARG:O	2.13	0.80
2:D0:31:SER:HA	2:D0:283:ARG:HB2	1.63	0.80
2:A1:30:GLU:HB3	2:A1:281:GLY:O	1.80	0.80
2:A2:91:ARG:NH2	2:A2:92:ARG:O	2.13	0.80
2:G2:30:GLU:HB3	2:G2:281:GLY:O	1.80	0.80
2:E3:90:LEU:O	2:E3:92:ARG:NH1	2.13	0.80
2:D4:31:SER:HA	2:D4:283:ARG:HB2	1.63	0.80
2:D1:225:ASN:HA	2:E1:242:LYS:NZ	1.96	0.80
2:G3:31:SER:HA	2:G3:283:ARG:HB2	1.63	0.80
2:C3:308:TRP:HE1	2:C3:320:MET:HB2	1.45	0.80
2:F3:30:GLU:HB3	2:F3:281:GLY:O	1.80	0.80
2:D4:91:ARG:NH2	2:D4:92:ARG:O	2.13	0.80
2:G0:308:TRP:HE1	2:G0:320:MET:HB2	1.45	0.80
2:D1:31:SER:HA	2:D1:283:ARG:HB2	1.63	0.80
2:G2:31:SER:HA	2:G2:283:ARG:HB2	1.63	0.80
2:D2:91:ARG:NH2	2:D2:92:ARG:O	2.13	0.80
2:G1:30:GLU:HB3	2:G1:281:GLY:O	1.80	0.80
2:G2:91:ARG:NH2	2:G2:92:ARG:O	2.13	0.80
2:A3:83:GLU:OE2	2:F3:64:ARG:NH2	2.14	0.80
2:A4:31:SER:HA	2:A4:283:ARG:HB2	1.63	0.80
2:C4:90:LEU:O	2:C4:92:ARG:NH1	2.13	0.80
1:B5:376:ASN:N	1:b5:360:ARG:HH11	1.78	0.80
2:C0:308:TRP:HE1	2:C0:320:MET:HB2	1.45	0.80
2:F0:91:ARG:NH2	2:F0:92:ARG:O	2.13	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D2:31:SER:HA	2:D2:283:ARG:HB2	1.63	0.80
2:E4:91:ARG:NH2	2:E4:92:ARG:O	2.13	0.80
2:A0:53:TYR:OH	2:G0:145:GLU:O	1.98	0.80
2:C0:31:SER:HA	2:C0:283:ARG:HB2	1.63	0.80
2:F1:30:GLU:HB3	2:F1:281:GLY:O	1.81	0.80
2:A2:53:TYR:OH	2:G2:145:GLU:O	1.98	0.80
2:A2:91:ARG:NH1	2:F2:30:GLU:OE2	2.15	0.80
2:A4:91:ARG:NH2	2:A4:92:ARG:O	2.13	0.80
2:G1:31:SER:HA	2:G1:283:ARG:HB2	1.63	0.80
2:G2:308:TRP:HE1	2:G2:320:MET:HB2	1.45	0.80
2:D3:90:LEU:O	2:D3:92:ARG:NH1	2.13	0.80
2:F3:31:SER:HA	2:F3:283:ARG:HB2	1.63	0.80
2:A4:83:GLU:OE2	2:F4:64:ARG:NH2	2.14	0.80
2:C4:91:ARG:NH2	2:C4:92:ARG:O	2.13	0.80
1:B2:376:ASN:N	1:b2:360:ARG:HH11	1.78	0.80
2:G1:91:ARG:NH2	2:G1:92:ARG:O	2.13	0.80
2:G3:90:LEU:O	2:G3:92:ARG:NH1	2.13	0.80
2:C3:31:SER:HA	2:C3:283:ARG:HB2	1.63	0.80
2:E3:30:GLU:HB3	2:E3:281:GLY:O	1.80	0.80
2:D4:90:LEU:O	2:D4:92:ARG:NH1	2.13	0.80
2:E1:30:GLU:HB3	2:E1:281:GLY:O	1.80	0.79
2:E1:31:SER:HA	2:E1:283:ARG:HB2	1.63	0.79
2:G2:90:LEU:O	2:G2:92:ARG:NH1	2.13	0.79
2:F2:90:LEU:O	2:F2:92:ARG:NH1	2.13	0.79
2:E3:308:TRP:HE1	2:E3:320:MET:HB2	1.45	0.79
2:C4:30:GLU:HB3	2:C4:281:GLY:O	1.80	0.79
2:D0:30:GLU:HB3	2:D0:281:GLY:O	1.80	0.79
2:D0:225:ASN:HA	2:E0:242:LYS:NZ	1.96	0.79
2:E4:31:SER:HA	2:E4:283:ARG:HB2	1.63	0.79
2:D0:276:ASN:HD22	2:E0:263:LYS:NZ	1.80	0.79
2:D4:225:ASN:HA	2:E4:242:LYS:NZ	1.96	0.79
2:F1:31:SER:HA	2:F1:283:ARG:HB2	1.63	0.79
2:A3:91:ARG:NH2	2:A3:92:ARG:O	2.13	0.79
2:G4:30:GLU:HB3	2:G4:281:GLY:O	1.80	0.79
1:b4:376:ASN:N	1:B5:360:ARG:HH11	1.77	0.79
2:A1:31:SER:HA	2:A1:283:ARG:HB2	1.63	0.79
2:D1:64:ARG:NH1	2:E1:316:ARG:HH21	1.81	0.79
2:A2:83:GLU:OE2	2:F2:64:ARG:NH2	2.14	0.79
2:F2:30:GLU:HB3	2:F2:281:GLY:O	1.80	0.79
2:D3:31:SER:HA	2:D3:283:ARG:HB2	1.63	0.79
2:A3:91:ARG:NH1	2:F3:30:GLU:OE2	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C4:308:TRP:HE1	2:C4:320:MET:HB2	1.45	0.79
2:D0:64:ARG:NH1	2:E0:316:ARG:HH21	1.81	0.79
2:D3:276:ASN:HD22	2:E3:263:LYS:NZ	1.80	0.79
1:b2:259:LYS:HZ2	1:b2:260:MET:HE3	1.47	0.78
2:C1:31:SER:HA	2:C1:283:ARG:HB2	1.63	0.78
2:A3:31:SER:HA	2:A3:283:ARG:HB2	1.63	0.78
2:G1:113:MET:HB3	2:G1:117:ARG:HH21	1.49	0.78
2:F1:91:ARG:NH2	2:F1:92:ARG:O	2.13	0.78
2:F2:31:SER:HA	2:F2:283:ARG:HB2	1.63	0.78
2:A4:91:ARG:NH1	2:F4:30:GLU:OE2	2.15	0.78
2:C4:31:SER:HA	2:C4:283:ARG:HB2	1.63	0.78
1:B3:375:ARG:NH1	1:b3:370:TYR:HB2	1.98	0.78
2:D1:276:ASN:HD22	2:E1:263:LYS:NZ	1.80	0.78
2:C2:91:ARG:NH2	2:C2:92:ARG:O	2.13	0.78
2:D2:276:ASN:HD22	2:E2:263:LYS:NZ	1.80	0.78
2:E2:31:SER:HA	2:E2:283:ARG:HB2	1.63	0.78
2:E2:91:ARG:NH2	2:E2:92:ARG:O	2.13	0.78
2:A3:113:MET:HB3	2:A3:117:ARG:HH21	1.49	0.78
2:C3:113:MET:HB3	2:C3:117:ARG:HH21	1.49	0.78
2:D4:276:ASN:HD22	2:E4:263:LYS:NZ	1.80	0.78
2:G4:91:ARG:NH2	2:G4:92:ARG:O	2.13	0.78
2:A1:91:ARG:NH1	2:F1:30:GLU:OE2	2.15	0.78
2:G2:113:MET:HB3	2:G2:117:ARG:HH21	1.49	0.78
2:E4:113:MET:HB3	2:E4:117:ARG:HH21	1.49	0.78
2:F4:113:MET:HB3	2:F4:117:ARG:HH21	1.49	0.78
2:C4:113:MET:HB3	2:C4:117:ARG:HH21	1.49	0.78
2:A1:113:MET:HB3	2:A1:117:ARG:HH21	1.49	0.78
2:E3:113:MET:HB3	2:E3:117:ARG:HH21	1.49	0.78
2:C1:91:ARG:NH2	2:C1:92:ARG:O	2.13	0.78
2:D3:113:MET:HB3	2:D3:117:ARG:HH21	1.49	0.78
2:D4:64:ARG:NH1	2:E4:316:ARG:HH21	1.81	0.78
1:B1:214:TRP:HB3	2:G0:103:ASP:OD2	1.82	0.78
2:A0:91:ARG:NH1	2:F0:30:GLU:OE2	2.15	0.78
2:D3:64:ARG:NH1	2:E3:316:ARG:HH21	1.81	0.78
2:G3:113:MET:HB3	2:G3:117:ARG:HH21	1.49	0.78
2:F3:113:MET:HB3	2:F3:117:ARG:HH21	1.49	0.77
2:D2:64:ARG:NH1	2:E2:316:ARG:HH21	1.81	0.77
1:B:370:TYR:HB2	1:b5:375:ARG:NH1	1.99	0.77
1:b4:375:ARG:NH1	1:B5:370:TYR:HB2	1.99	0.77
2:G0:113:MET:HB3	2:G0:117:ARG:HH21	1.49	0.77
2:E3:31:SER:HA	2:E3:283:ARG:HB2	1.63	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:72:ASN:ND2	1:b1:365:GLY:O	2.17	0.77
2:E0:113:MET:HB3	2:E0:117:ARG:HH21	1.49	0.77
2:E1:113:MET:HB3	2:E1:117:ARG:HH21	1.49	0.77
2:C4:51:ALA:CB	2:D4:259:GLU:HA	2.15	0.77
1:b2:184:GLY:H	2:G4:103:ASP:CG	1.92	0.77
2:A1:93:LEU:HD12	2:A1:94:PRO:HD2	1.67	0.77
2:C2:31:SER:HA	2:C2:283:ARG:HB2	1.63	0.77
2:E3:93:LEU:HD12	2:E3:94:PRO:HD2	1.67	0.77
2:G4:93:LEU:HD12	2:G4:94:PRO:HD2	1.67	0.77
1:B3:72:ASN:ND2	1:b3:365:GLY:O	2.18	0.77
1:B1:376:ASN:N	1:b1:360:ARG:HH11	1.78	0.77
2:C0:51:ALA:CB	2:D0:259:GLU:HA	2.15	0.77
2:C0:113:MET:HB3	2:C0:117:ARG:HH21	1.49	0.77
2:G2:93:LEU:HD12	2:G2:94:PRO:HD2	1.67	0.77
2:C2:51:ALA:CB	2:D2:259:GLU:HA	2.15	0.77
2:D4:113:MET:HB3	2:D4:117:ARG:HH21	1.49	0.77
1:B4:375:ARG:NH1	1:b4:370:TYR:HB2	2.00	0.77
2:A2:113:MET:HB3	2:A2:117:ARG:HH21	1.49	0.77
2:A4:113:MET:HB3	2:A4:117:ARG:HH21	1.49	0.77
2:G4:113:MET:HB3	2:G4:117:ARG:HH21	1.49	0.77
1:b3:149:GLY:HA3	1:b3:247:GLY:HA3	1.67	0.77
2:C1:51:ALA:CB	2:D1:259:GLU:HA	2.15	0.77
2:C3:51:ALA:CB	2:D3:259:GLU:HA	2.15	0.77
1:B2:259:LYS:HZ2	1:B2:260:MET:HE3	1.50	0.77
2:D0:45:PRO:HD3	2:E0:88:MET:CE	2.15	0.77
2:G3:93:LEU:HD12	2:G3:94:PRO:HD2	1.67	0.77
1:B:375:ARG:NH1	1:b:370:TYR:HB2	1.99	0.76
2:F1:113:MET:HB3	2:F1:117:ARG:HH21	1.49	0.76
2:D2:93:LEU:HD12	2:D2:94:PRO:HD2	1.67	0.76
2:C4:19:PHE:HB3	2:C4:235:LEU:HD21	1.68	0.76
1:B4:149:GLY:HA3	1:B4:247:GLY:HA3	1.67	0.76
1:b4:72:ASN:ND2	1:B5:365:GLY:O	2.19	0.76
2:F0:113:MET:HB3	2:F0:117:ARG:HH21	1.49	0.76
2:D1:93:LEU:HD12	2:D1:94:PRO:HD2	1.67	0.76
2:D2:45:PRO:HD3	2:E2:88:MET:CE	2.15	0.76
2:G3:53:TYR:CB	2:C3:78:VAL:HG13	2.15	0.76
2:G4:53:TYR:CB	2:C4:78:VAL:HG13	2.15	0.76
1:B5:72:ASN:ND2	1:b5:365:GLY:O	2.19	0.76
1:B5:149:GLY:HA3	1:B5:247:GLY:HA3	1.67	0.76
1:b1:72:ASN:ND2	1:B2:365:GLY:O	2.18	0.76
1:b1:375:ARG:NH1	1:B2:370:TYR:HB2	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G0:19:PHE:HB3	2:G0:235:LEU:HD21	1.68	0.76
2:D0:93:LEU:HD12	2:D0:94:PRO:HD2	1.67	0.76
2:G2:53:TYR:CB	2:C2:78:VAL:HG13	2.15	0.76
2:E2:113:MET:HB3	2:E2:117:ARG:HH21	1.49	0.76
2:C3:19:PHE:HB3	2:C3:235:LEU:HD21	1.68	0.76
2:C4:93:LEU:HD12	2:C4:94:PRO:HD2	1.67	0.76
2:D4:93:LEU:HD12	2:D4:94:PRO:HD2	1.67	0.76
2:A0:19:PHE:HB3	2:A0:235:LEU:HD21	1.68	0.76
2:G1:19:PHE:HB3	2:G1:235:LEU:HD21	1.68	0.76
2:G1:53:TYR:CB	2:C1:78:VAL:HG13	2.15	0.76
2:D1:113:MET:HB3	2:D1:117:ARG:HH21	1.49	0.76
2:C2:113:MET:HB3	2:C2:117:ARG:HH21	1.49	0.76
2:D2:19:PHE:HB3	2:D2:235:LEU:HD21	1.68	0.76
2:F2:93:LEU:HD12	2:F2:94:PRO:HD2	1.67	0.76
2:F3:19:PHE:HB3	2:F3:235:LEU:HD21	1.68	0.76
2:D4:45:PRO:HD3	2:E4:88:MET:CE	2.15	0.76
1:b4:195:ILE:HD12	1:b4:199:GLY:HA2	1.68	0.76
1:b5:195:ILE:HD12	1:b5:199:GLY:HA2	1.68	0.76
2:G0:53:TYR:CB	2:C0:78:VAL:HG13	2.15	0.76
2:C0:19:PHE:HB3	2:C0:235:LEU:HD21	1.68	0.76
2:D3:62:VAL:HG22	2:E3:318:PHE:CZ	2.21	0.76
2:F4:19:PHE:HB3	2:F4:235:LEU:HD21	1.68	0.76
1:B:72:ASN:ND2	1:b:365:GLY:O	2.18	0.76
1:B:195:ILE:HD12	1:B:199:GLY:HA2	1.68	0.76
1:B1:149:GLY:HA3	1:B1:247:GLY:HA3	1.67	0.76
2:C1:93:LEU:HD12	2:C1:94:PRO:HD2	1.67	0.76
2:E3:19:PHE:HB3	2:E3:235:LEU:HD21	1.68	0.76
2:A4:19:PHE:HB3	2:A4:235:LEU:HD21	1.68	0.76
1:B:365:GLY:O	1:b5:72:ASN:ND2	2.18	0.76
1:b3:72:ASN:ND2	1:B4:365:GLY:O	2.18	0.76
1:B4:195:ILE:HD12	1:B4:199:GLY:HA2	1.68	0.76
2:D2:62:VAL:HG22	2:E2:318:PHE:CZ	2.21	0.76
2:F2:113:MET:HB3	2:F2:117:ARG:HH21	1.49	0.76
2:A3:93:LEU:HD12	2:A3:94:PRO:HD2	1.67	0.76
2:G3:19:PHE:HB3	2:G3:235:LEU:HD21	1.68	0.76
2:D3:93:LEU:HD12	2:D3:94:PRO:HD2	1.67	0.76
1:b:149:GLY:HA3	1:b:247:GLY:HA3	1.67	0.76
2:G1:93:LEU:HD12	2:G1:94:PRO:HD2	1.67	0.76
2:C1:51:ALA:HB2	2:D1:259:GLU:HA	1.68	0.76
2:D3:45:PRO:HD3	2:E3:88:MET:CE	2.15	0.76
2:G4:19:PHE:HB3	2:G4:235:LEU:HD21	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F4:93:LEU:HD12	2:F4:94:PRO:HD2	1.67	0.76
1:b2:149:GLY:HA3	1:b2:247:GLY:HA3	1.67	0.76
2:G0:93:LEU:HD12	2:G0:94:PRO:HD2	1.67	0.76
2:C1:163:THR:HB	2:C1:339:GLN:HE21	1.51	0.76
2:A3:19:PHE:HB3	2:A3:235:LEU:HD21	1.68	0.76
2:G3:163:THR:HB	2:G3:339:GLN:HE21	1.51	0.76
2:C4:47:LEU:HD11	2:D4:258:VAL:HG11	1.68	0.76
1:b1:149:GLY:HA3	1:b1:247:GLY:HA3	1.67	0.75
2:A0:93:LEU:HD12	2:A0:94:PRO:HD2	1.67	0.75
2:A0:113:MET:HB3	2:A0:117:ARG:HH21	1.49	0.75
2:A0:163:THR:HB	2:A0:339:GLN:HE21	1.51	0.75
2:F0:93:LEU:HD12	2:F0:94:PRO:HD2	1.67	0.75
2:A2:93:LEU:HD12	2:A2:94:PRO:HD2	1.67	0.75
2:F3:93:LEU:HD12	2:F3:94:PRO:HD2	1.67	0.75
1:b:72:ASN:ND2	1:B1:365:GLY:O	2.19	0.75
1:B4:72:ASN:ND2	1:b4:365:GLY:O	2.19	0.75
1:B5:195:ILE:HD12	1:B5:199:GLY:HA2	1.68	0.75
2:D0:113:MET:HB3	2:D0:117:ARG:HH21	1.49	0.75
2:G2:19:PHE:HB3	2:G2:235:LEU:HD21	1.68	0.75
1:b:195:ILE:HD12	1:b:199:GLY:HA2	1.68	0.75
1:B3:374:SER:CA	1:b3:364:ALA:HB3	2.15	0.75
1:b4:149:GLY:HA3	1:b4:247:GLY:HA3	1.67	0.75
2:A1:19:PHE:HB3	2:A1:235:LEU:HD21	1.68	0.75
2:A1:163:THR:HB	2:A1:339:GLN:HE21	1.51	0.75
1:b1:370:TYR:HD1	1:b1:373:LEU:HD12	1.52	0.75
1:b3:195:ILE:HD12	1:b3:199:GLY:HA2	1.68	0.75
2:C0:47:LEU:HD11	2:D0:258:VAL:HG11	1.68	0.75
2:C0:163:THR:HB	2:C0:339:GLN:HE21	1.51	0.75
2:D0:19:PHE:HB3	2:D0:235:LEU:HD21	1.68	0.75
2:D1:45:PRO:HD3	2:E1:88:MET:CE	2.15	0.75
2:E2:163:THR:HB	2:E2:339:GLN:HE21	1.51	0.75
1:b1:36:ARG:CD	2:G0:295:ARG:CG	2.64	0.75
1:B2:72:ASN:ND2	1:b2:365:GLY:O	2.18	0.75
1:b5:370:TYR:HD1	1:b5:373:LEU:HD12	1.52	0.75
2:E1:163:THR:HB	2:E1:339:GLN:HE21	1.51	0.75
2:C2:93:LEU:HD12	2:C2:94:PRO:HD2	1.67	0.75
2:D2:113:MET:HB3	2:D2:117:ARG:HH21	1.49	0.75
2:C3:47:LEU:HD11	2:D3:258:VAL:HG11	1.68	0.75
2:D3:163:THR:HB	2:D3:339:GLN:HE21	1.51	0.75
2:D4:19:PHE:HB3	2:D4:235:LEU:HD21	1.68	0.75
1:B:149:GLY:HA3	1:B:247:GLY:HA3	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:370:TYR:HD1	1:B5:373:LEU:HD12	1.52	0.75
2:E0:93:LEU:HD12	2:E0:94:PRO:HD2	1.67	0.75
2:F0:19:PHE:HB3	2:F0:235:LEU:HD21	1.68	0.75
2:C1:113:MET:HB3	2:C1:117:ARG:HH21	1.49	0.75
2:D1:62:VAL:HG22	2:E1:318:PHE:CZ	2.21	0.75
2:E1:19:PHE:HB3	2:E1:235:LEU:HD21	1.68	0.75
2:A2:163:THR:HB	2:A2:339:GLN:HE21	1.51	0.75
2:C2:19:PHE:HB3	2:C2:235:LEU:HD21	1.68	0.75
2:E2:19:PHE:HB3	2:E2:235:LEU:HD21	1.68	0.75
2:F3:163:THR:HB	2:F3:339:GLN:HE21	1.51	0.75
2:D4:62:VAL:HG22	2:E4:318:PHE:CZ	2.21	0.75
1:B2:149:GLY:HA3	1:B2:247:GLY:HA3	1.67	0.75
1:B3:195:ILE:HD12	1:B3:199:GLY:HA2	1.68	0.75
1:B3:259:LYS:HZ2	1:B3:260:MET:HE3	1.51	0.75
1:B4:65:ARG:HH22	1:b4:41:PRO:HD2	1.52	0.75
1:b4:374:SER:CA	1:B5:364:ALA:HB3	2.16	0.75
2:C1:47:LEU:HD11	2:D1:258:VAL:HG11	1.68	0.75
2:D1:19:PHE:HB3	2:D1:235:LEU:HD21	1.68	0.75
2:F1:93:LEU:HD12	2:F1:94:PRO:HD2	1.67	0.75
2:D2:163:THR:HB	2:D2:339:GLN:HE21	1.51	0.75
2:A3:163:THR:HB	2:A3:339:GLN:HE21	1.51	0.75
2:G4:163:THR:HB	2:G4:339:GLN:HE21	1.51	0.75
2:F4:163:THR:HB	2:F4:339:GLN:HE21	1.51	0.75
1:B:364:ALA:HB3	1:b5:374:SER:CA	2.17	0.75
1:b3:370:TYR:HD1	1:b3:373:LEU:HD12	1.52	0.75
1:b5:149:GLY:HA3	1:b5:247:GLY:HA3	1.67	0.75
2:C1:19:PHE:HB3	2:C1:235:LEU:HD21	1.68	0.75
2:E2:93:LEU:HD12	2:E2:94:PRO:HD2	1.67	0.75
1:b2:65:ARG:HH22	1:B3:41:PRO:HD2	1.51	0.75
2:D0:62:VAL:HG22	2:E0:318:PHE:CZ	2.21	0.75
2:F2:163:THR:HB	2:F2:339:GLN:HE21	1.51	0.75
2:C3:93:LEU:HD12	2:C3:94:PRO:HD2	1.67	0.75
1:B1:195:ILE:HD12	1:B1:199:GLY:HA2	1.68	0.74
1:B3:149:GLY:HA3	1:B3:247:GLY:HA3	1.67	0.74
2:E1:93:LEU:HD12	2:E1:94:PRO:HD2	1.67	0.74
2:F1:19:PHE:HB3	2:F1:235:LEU:HD21	1.68	0.74
2:A4:93:LEU:HD12	2:A4:94:PRO:HD2	1.67	0.74
1:B1:375:ARG:NH1	1:b1:370:TYR:HB2	2.00	0.74
2:C0:93:LEU:HD12	2:C0:94:PRO:HD2	1.67	0.74
2:F2:19:PHE:HB3	2:F2:235:LEU:HD21	1.68	0.74
2:C4:51:ALA:HB2	2:D4:259:GLU:HA	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:370:TYR:HD1	1:B:373:LEU:HD12	1.52	0.74
1:b:65:ARG:HH22	1:B1:41:PRO:HD2	1.51	0.74
1:B5:375:ARG:NH1	1:b5:370:TYR:HB2	2.02	0.74
2:G2:163:THR:HB	2:G2:339:GLN:HE21	1.51	0.74
2:C2:163:THR:HB	2:C2:339:GLN:HE21	1.51	0.74
2:C3:163:THR:HB	2:C3:339:GLN:HE21	1.51	0.74
2:D3:19:PHE:HB3	2:D3:235:LEU:HD21	1.68	0.74
2:C4:163:THR:HB	2:C4:339:GLN:HE21	1.51	0.74
2:E4:93:LEU:HD12	2:E4:94:PRO:HD2	1.67	0.74
1:b:375:ARG:NH1	1:B1:370:TYR:HB2	2.02	0.74
1:B2:370:TYR:HD1	1:B2:373:LEU:HD12	1.52	0.74
1:b2:72:ASN:ND2	1:B3:365:GLY:O	2.21	0.74
1:b2:195:ILE:HD12	1:b2:199:GLY:HA2	1.68	0.74
2:E0:19:PHE:HB3	2:E0:235:LEU:HD21	1.68	0.74
2:E4:19:PHE:HB3	2:E4:235:LEU:HD21	1.68	0.74
1:B1:370:TYR:HD1	1:B1:373:LEU:HD12	1.52	0.74
1:B2:374:SER:OG	1:b2:360:ARG:NE	2.21	0.74
1:B2:375:ARG:NH1	1:b2:370:TYR:HB2	2.01	0.74
1:B3:370:TYR:HD1	1:B3:373:LEU:HD12	1.52	0.74
1:b3:375:ARG:NH1	1:B4:370:TYR:HB2	2.01	0.74
2:D0:163:THR:HB	2:D0:339:GLN:HE21	1.51	0.74
1:b1:195:ILE:HD12	1:b1:199:GLY:HA2	1.68	0.74
1:B2:195:ILE:HD12	1:B2:199:GLY:HA2	1.68	0.74
1:b3:65:ARG:HH22	1:B4:41:PRO:HD2	1.53	0.74
2:E0:163:THR:HB	2:E0:339:GLN:HE21	1.51	0.74
2:F1:163:THR:HB	2:F1:339:GLN:HE21	1.51	0.74
2:C2:47:LEU:HD11	2:D2:258:VAL:HG11	1.68	0.74
2:D4:163:THR:HB	2:D4:339:GLN:HE21	1.51	0.74
1:b1:259:LYS:HZ2	1:b1:260:MET:HE3	1.52	0.74
2:C0:51:ALA:HB2	2:D0:259:GLU:HA	1.68	0.74
2:G1:78:VAL:HG12	2:G1:80:PRO:HD3	1.70	0.74
2:A2:19:PHE:HB3	2:A2:235:LEU:HD21	1.68	0.74
2:G4:310:THR:O	2:G4:315:ALA:HA	1.88	0.74
2:D4:78:VAL:HG12	2:D4:80:PRO:HD3	1.70	0.74
2:E4:163:THR:HB	2:E4:339:GLN:HE21	1.51	0.74
1:B4:370:TYR:HD1	1:B4:373:LEU:HD12	1.52	0.74
2:A0:78:VAL:HG12	2:A0:80:PRO:HD3	1.70	0.74
2:E0:310:THR:O	2:E0:315:ALA:HA	1.88	0.74
2:C1:310:THR:O	2:C1:315:ALA:HA	1.88	0.74
1:B1:374:SER:OG	1:b1:360:ARG:NE	2.21	0.74
1:b4:370:TYR:HD1	1:b4:373:LEU:HD12	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G1:163:THR:HB	2:G1:339:GLN:HE21	1.51	0.74
2:D1:163:THR:HB	2:D1:339:GLN:HE21	1.51	0.74
2:A2:78:VAL:HG12	2:A2:80:PRO:HD3	1.70	0.74
2:C3:51:ALA:HB2	2:D3:259:GLU:HA	1.68	0.74
2:C3:310:THR:O	2:C3:315:ALA:HA	1.88	0.74
1:b2:370:TYR:HD1	1:b2:373:LEU:HD12	1.52	0.73
1:B4:374:SER:CA	1:b4:364:ALA:HB3	2.18	0.73
1:b4:65:ARG:HH22	1:B5:41:PRO:HD2	1.53	0.73
2:F0:310:THR:O	2:F0:315:ALA:HA	1.88	0.73
2:G2:78:VAL:HG12	2:G2:80:PRO:HD3	1.70	0.73
2:G3:78:VAL:HG12	2:G3:80:PRO:HD3	1.70	0.73
2:D3:310:THR:O	2:D3:315:ALA:HA	1.88	0.73
2:A1:308:TRP:CZ3	2:D2:313:ASP:HA	2.24	0.73
2:A4:163:THR:HB	2:A4:339:GLN:HE21	1.51	0.73
2:F0:78:VAL:HG12	2:F0:80:PRO:HD3	1.70	0.73
2:F0:163:THR:HB	2:F0:339:GLN:HE21	1.51	0.73
2:D1:310:THR:O	2:D1:315:ALA:HA	1.88	0.73
2:C2:310:THR:O	2:C2:315:ALA:HA	1.88	0.73
1:B5:374:SER:OG	1:b5:360:ARG:NE	2.20	0.73
2:G0:78:VAL:HG12	2:G0:80:PRO:HD3	1.70	0.73
2:G0:310:THR:O	2:G0:315:ALA:HA	1.88	0.73
2:D0:115:ASN:ND2	2:D0:319:THR:OG1	2.22	0.73
2:G1:310:THR:O	2:G1:315:ALA:HA	1.88	0.73
2:A2:308:TRP:CZ3	2:D3:313:ASP:HA	2.24	0.73
2:C2:51:ALA:HB2	2:D2:259:GLU:HA	1.68	0.73
2:A3:308:TRP:CZ3	2:D4:313:ASP:HA	2.24	0.73
2:G4:78:VAL:HG12	2:G4:80:PRO:HD3	1.70	0.73
2:G4:221:ARG:NH1	2:F4:221:ARG:CD	2.51	0.73
1:B:65:ARG:HH22	1:b:41:PRO:HD2	1.52	0.73
1:b1:376:ASN:N	1:B2:360:ARG:HH11	1.77	0.73
1:B3:65:ARG:HH22	1:b3:41:PRO:HD2	1.54	0.73
2:D0:310:THR:O	2:D0:315:ALA:HA	1.88	0.73
2:D0:313:ASP:HA	2:A4:308:TRP:CZ3	2.24	0.73
2:D1:64:ARG:NH1	2:E1:316:ARG:HE	1.87	0.73
2:D2:310:THR:O	2:D2:315:ALA:HA	1.88	0.73
2:A4:115:ASN:ND2	2:A4:319:THR:OG1	2.22	0.73
2:A4:310:THR:O	2:A4:315:ALA:HA	1.88	0.73
2:F4:78:VAL:HG12	2:F4:80:PRO:HD3	1.70	0.73
1:B:374:SER:OG	1:b:360:ARG:NE	2.20	0.73
1:b1:374:SER:OG	1:B2:360:ARG:NE	2.22	0.73
2:A0:82:HIS:HE1	2:F0:63:ILE:HD13	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:115:ASN:ND2	2:A0:319:THR:OG1	2.22	0.73
2:A0:308:TRP:CZ3	2:D1:313:ASP:HA	2.24	0.73
2:A1:82:HIS:HE1	2:F1:63:ILE:HD13	1.54	0.73
2:D3:78:VAL:HG12	2:D3:80:PRO:HD3	1.70	0.73
2:E4:310:THR:O	2:E4:315:ALA:HA	1.88	0.73
1:B3:90:HIS:NE2	1:B3:442:TRP:O	2.20	0.73
2:G0:115:ASN:ND2	2:G0:319:THR:OG1	2.22	0.73
2:C0:310:THR:O	2:C0:315:ALA:HA	1.88	0.73
2:A1:78:VAL:HG12	2:A1:80:PRO:HD3	1.70	0.73
2:G1:221:ARG:NH1	2:F1:221:ARG:HD3	2.04	0.73
2:E1:310:THR:O	2:E1:315:ALA:HA	1.88	0.73
2:F2:115:ASN:ND2	2:F2:319:THR:OG1	2.22	0.73
2:G3:221:ARG:NH1	2:F3:221:ARG:CD	2.52	0.73
2:C3:115:ASN:ND2	2:C3:319:THR:OG1	2.22	0.73
2:A4:78:VAL:HG12	2:A4:80:PRO:HD3	1.70	0.73
2:F4:310:THR:O	2:F4:315:ALA:HA	1.88	0.73
1:b:370:TYR:HD1	1:b:373:LEU:HD12	1.52	0.73
1:B1:65:ARG:HH22	1:b1:41:PRO:HD2	1.54	0.73
1:B1:214:TRP:HB2	2:G0:103:ASP:OD2	1.87	0.73
1:b1:65:ARG:HH22	1:B2:41:PRO:HD2	1.53	0.73
1:B5:90:HIS:NE2	1:B5:442:TRP:O	2.20	0.73
2:G0:221:ARG:NH1	2:F0:221:ARG:CD	2.52	0.73
2:E1:78:VAL:HG12	2:E1:80:PRO:HD3	1.70	0.73
2:G2:221:ARG:NH1	2:F2:221:ARG:CD	2.52	0.73
2:E2:310:THR:O	2:E2:315:ALA:HA	1.88	0.73
2:A3:310:THR:O	2:A3:315:ALA:HA	1.88	0.73
2:G3:115:ASN:ND2	2:G3:319:THR:OG1	2.22	0.73
2:D3:115:ASN:ND2	2:D3:319:THR:OG1	2.22	0.73
2:D3:276:ASN:HD22	2:E3:263:LYS:HZ3	1.37	0.73
2:A4:82:HIS:HE1	2:F4:63:ILE:HD13	1.54	0.73
1:B1:473:SER:HA	1:B1:477:LYS:HE2	1.71	0.73
1:B3:370:TYR:CD1	1:B3:373:LEU:HD12	2.24	0.73
1:B3:370:TYR:CB	1:b3:360:ARG:HH22	2.01	0.73
1:b3:90:HIS:NE2	1:b3:442:TRP:O	2.20	0.73
2:G1:221:ARG:NH1	2:F1:221:ARG:CD	2.52	0.73
2:F1:310:THR:O	2:F1:315:ALA:HA	1.88	0.73
2:A3:115:ASN:ND2	2:A3:319:THR:OG1	2.22	0.73
2:G3:310:THR:O	2:G3:315:ALA:HA	1.88	0.73
2:C4:115:ASN:ND2	2:C4:319:THR:OG1	2.22	0.73
1:B:90:HIS:NE2	1:B:442:TRP:O	2.20	0.73
1:b1:473:SER:HA	1:b1:477:LYS:HE2	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E0:78:VAL:HG12	2:E0:80:PRO:HD3	1.70	0.73
2:A2:115:ASN:ND2	2:A2:319:THR:OG1	2.22	0.73
2:G2:310:THR:O	2:G2:315:ALA:HA	1.88	0.73
2:D2:64:ARG:NH1	2:E2:316:ARG:HE	1.87	0.73
2:D2:78:VAL:HG12	2:D2:80:PRO:HD3	1.70	0.73
2:G3:221:ARG:NH1	2:F3:221:ARG:HD3	2.04	0.73
2:D4:310:THR:O	2:D4:315:ALA:HA	1.88	0.73
1:B:370:TYR:CB	1:b:360:ARG:HH22	2.01	0.72
1:B5:65:ARG:HH22	1:b5:41:PRO:HD2	1.53	0.72
2:E0:115:ASN:ND2	2:E0:319:THR:OG1	2.22	0.72
2:G1:115:ASN:ND2	2:G1:319:THR:OG1	2.22	0.72
2:D1:78:VAL:HG12	2:D1:80:PRO:HD3	1.70	0.72
2:G2:115:ASN:ND2	2:G2:319:THR:OG1	2.22	0.72
2:G2:221:ARG:NH1	2:F2:221:ARG:HD3	2.04	0.72
2:E2:115:ASN:ND2	2:E2:319:THR:OG1	2.22	0.72
2:C4:310:THR:O	2:C4:315:ALA:HA	1.88	0.72
1:B:41:PRO:HD2	1:b5:65:ARG:HH22	1.53	0.72
1:B:370:TYR:CD1	1:B:373:LEU:HD12	2.24	0.72
1:b2:370:TYR:CD1	1:b2:373:LEU:HD12	2.24	0.72
2:A3:90:LEU:HD21	2:A3:111:ILE:HB	1.72	0.72
2:D3:64:ARG:NH1	2:E3:316:ARG:HE	1.87	0.72
2:G4:115:ASN:ND2	2:G4:319:THR:OG1	2.22	0.72
2:E4:115:ASN:ND2	2:E4:319:THR:OG1	2.22	0.72
1:b1:370:TYR:CD1	1:b1:373:LEU:HD12	2.24	0.72
1:B5:370:TYR:CD1	1:B5:373:LEU:HD12	2.24	0.72
1:B5:473:SER:HA	1:B5:477:LYS:HE2	1.71	0.72
2:G0:163:THR:HB	2:G0:339:GLN:HE21	1.51	0.72
2:D0:78:VAL:HG12	2:D0:80:PRO:HD3	1.70	0.72
2:A1:310:THR:O	2:A1:315:ALA:HA	1.88	0.72
2:E1:115:ASN:ND2	2:E1:319:THR:OG1	2.22	0.72
2:F1:90:LEU:HD21	2:F1:111:ILE:HB	1.71	0.72
2:C2:64:ARG:H	2:C2:66:ARG:HH12	1.38	0.72
2:C2:78:VAL:HG12	2:C2:80:PRO:HD3	1.70	0.72
2:C2:90:LEU:HD21	2:C2:111:ILE:HB	1.72	0.72
2:C3:90:LEU:HD21	2:C3:111:ILE:HB	1.72	0.72
1:b1:80:HIS:O	1:b1:400:ARG:NH2	2.21	0.72
1:B3:376:ASN:N	1:b3:360:ARG:HH11	1.80	0.72
1:b4:80:HIS:O	1:b4:400:ARG:NH2	2.21	0.72
2:C0:115:ASN:ND2	2:C0:319:THR:OG1	2.22	0.72
2:C1:78:VAL:HG12	2:C1:80:PRO:HD3	1.70	0.72
2:F1:78:VAL:HG12	2:F1:80:PRO:HD3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:64:ARG:H	2:A2:66:ARG:HH12	1.38	0.72
2:A2:82:HIS:HE1	2:F2:63:ILE:HD13	1.54	0.72
2:C2:115:ASN:ND2	2:C2:319:THR:OG1	2.22	0.72
2:A3:82:HIS:HE1	2:F3:63:ILE:HD13	1.54	0.72
2:D4:64:ARG:NH1	2:E4:316:ARG:HE	1.87	0.72
1:b:374:SER:OG	1:B1:360:ARG:NE	2.22	0.72
1:b:473:SER:HA	1:b:477:LYS:HE2	1.71	0.72
1:b1:352:SER:O	1:b1:356:GLN:NE2	2.23	0.72
1:b2:375:ARG:NH1	1:B3:370:TYR:HB2	2.04	0.72
1:b4:473:SER:HA	1:b4:477:LYS:HE2	1.71	0.72
1:b5:473:SER:HA	1:b5:477:LYS:HE2	1.71	0.72
2:F0:90:LEU:HD21	2:F0:111:ILE:HB	1.72	0.72
2:D1:115:ASN:ND2	2:D1:319:THR:OG1	2.22	0.72
2:F3:310:THR:O	2:F3:315:ALA:HA	1.88	0.72
2:C4:90:LEU:HD21	2:C4:111:ILE:HB	1.72	0.72
2:D4:115:ASN:ND2	2:D4:319:THR:OG1	2.22	0.72
1:b:370:TYR:CD1	1:b:373:LEU:HD12	2.24	0.72
1:B1:352:SER:O	1:B1:356:GLN:NE2	2.23	0.72
1:b2:90:HIS:NE2	1:b2:442:TRP:O	2.20	0.72
1:B3:374:SER:OG	1:b3:360:ARG:NE	2.22	0.72
1:b5:370:TYR:CD1	1:b5:373:LEU:HD12	2.24	0.72
2:A0:64:ARG:H	2:A0:66:ARG:HH12	1.38	0.72
2:A0:90:LEU:HD21	2:A0:111:ILE:HB	1.72	0.72
2:A0:310:THR:O	2:A0:315:ALA:HA	1.88	0.72
2:G1:64:ARG:H	2:G1:66:ARG:HH12	1.37	0.72
2:F1:115:ASN:ND2	2:F1:319:THR:OG1	2.22	0.72
2:F2:310:THR:O	2:F2:315:ALA:HA	1.88	0.72
2:E3:163:THR:HB	2:E3:339:GLN:HE21	1.51	0.72
2:F3:115:ASN:ND2	2:F3:319:THR:OG1	2.22	0.72
2:G4:64:ARG:H	2:G4:66:ARG:HH12	1.38	0.72
2:G4:221:ARG:NH1	2:F4:221:ARG:HD3	2.04	0.72
2:F4:115:ASN:ND2	2:F4:319:THR:OG1	2.22	0.72
1:b3:374:SER:CA	1:B4:364:ALA:HB3	2.19	0.72
2:E0:90:LEU:HD21	2:E0:111:ILE:HB	1.72	0.72
2:A1:64:ARG:H	2:A1:66:ARG:HH12	1.38	0.72
2:C1:115:ASN:ND2	2:C1:319:THR:OG1	2.22	0.72
2:E3:115:ASN:ND2	2:E3:319:THR:OG1	2.22	0.72
2:C4:78:VAL:HG12	2:C4:80:PRO:HD3	1.70	0.72
1:b2:374:SER:OG	1:B3:360:ARG:NE	2.23	0.72
1:B3:352:SER:O	1:B3:356:GLN:NE2	2.23	0.72
1:b3:352:SER:O	1:b3:356:GLN:NE2	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B4:370:TYR:CD1	1:B4:373:LEU:HD12	2.24	0.72
1:B5:352:SER:O	1:B5:356:GLN:NE2	2.23	0.72
2:G0:221:ARG:NH1	2:F0:221:ARG:HD3	2.04	0.72
2:A1:115:ASN:ND2	2:A1:319:THR:OG1	2.22	0.72
2:C1:90:LEU:HD21	2:C1:111:ILE:HB	1.72	0.72
2:E2:78:VAL:HG12	2:E2:80:PRO:HD3	1.70	0.72
2:C3:64:ARG:H	2:C3:66:ARG:HH12	1.38	0.72
2:F3:78:VAL:HG12	2:F3:80:PRO:HD3	1.70	0.72
2:D4:225:ASN:HA	2:E4:242:LYS:HZ1	1.52	0.72
1:B2:352:SER:O	1:B2:356:GLN:NE2	2.23	0.72
1:B4:352:SER:O	1:B4:356:GLN:NE2	2.23	0.72
1:B4:374:SER:OG	1:b4:360:ARG:NE	2.22	0.72
1:b4:352:SER:O	1:b4:356:GLN:NE2	2.23	0.72
1:b5:352:SER:O	1:b5:356:GLN:NE2	2.23	0.72
2:G0:64:ARG:H	2:G0:66:ARG:HH12	1.38	0.72
2:C0:78:VAL:HG12	2:C0:80:PRO:HD3	1.70	0.72
2:A1:90:LEU:HD21	2:A1:111:ILE:HB	1.72	0.72
2:D2:90:LEU:HD21	2:D2:111:ILE:HB	1.72	0.72
1:b:90:HIS:NE2	1:b:442:TRP:O	2.20	0.72
1:b:352:SER:O	1:b:356:GLN:NE2	2.23	0.72
1:B1:370:TYR:CD1	1:B1:373:LEU:HD12	2.24	0.72
2:F0:115:ASN:ND2	2:F0:319:THR:OG1	2.22	0.72
2:C1:64:ARG:H	2:C1:66:ARG:HH12	1.38	0.72
2:E2:90:LEU:HD21	2:E2:111:ILE:HB	1.72	0.72
2:F2:64:ARG:H	2:F2:66:ARG:HH12	1.38	0.72
2:C3:78:VAL:HG12	2:C3:80:PRO:HD3	1.70	0.72
2:E4:78:VAL:HG12	2:E4:80:PRO:HD3	1.70	0.72
1:B2:473:SER:HA	1:B2:477:LYS:HE2	1.71	0.71
1:b2:352:SER:O	1:b2:356:GLN:NE2	2.23	0.71
1:b3:374:SER:OG	1:B4:360:ARG:NE	2.22	0.71
1:B4:473:SER:HA	1:B4:477:LYS:HE2	1.71	0.71
1:b5:90:HIS:NE2	1:b5:442:TRP:O	2.20	0.71
2:C0:64:ARG:H	2:C0:66:ARG:HH12	1.38	0.71
2:A2:82:HIS:CE1	2:F2:63:ILE:HD13	2.25	0.71
2:D2:115:ASN:ND2	2:D2:319:THR:OG1	2.22	0.71
2:F2:78:VAL:HG12	2:F2:80:PRO:HD3	1.70	0.71
2:E3:64:ARG:H	2:E3:66:ARG:HH12	1.38	0.71
2:E3:78:VAL:HG12	2:E3:80:PRO:HD3	1.70	0.71
2:G4:90:LEU:HD21	2:G4:111:ILE:HB	1.72	0.71
1:B4:90:HIS:NE2	1:B4:442:TRP:O	2.20	0.71
2:A0:82:HIS:CE1	2:F0:63:ILE:HD13	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F0:64:ARG:H	2:F0:66:ARG:HH12	1.38	0.71
1:B:352:SER:O	1:B:356:GLN:NE2	2.23	0.71
1:b3:80:HIS:O	1:b3:400:ARG:NH2	2.21	0.71
1:b3:370:TYR:CD1	1:b3:373:LEU:HD12	2.24	0.71
1:b4:370:TYR:CD1	1:b4:373:LEU:HD12	2.24	0.71
2:G0:8:GLN:H	2:G0:307:ASN:HB3	1.56	0.71
2:D1:8:GLN:H	2:D1:307:ASN:HB3	1.56	0.71
2:D2:8:GLN:H	2:D2:307:ASN:HB3	1.56	0.71
2:G3:64:ARG:H	2:G3:66:ARG:HH12	1.38	0.71
2:F3:8:GLN:H	2:F3:307:ASN:HB3	1.55	0.71
2:F4:90:LEU:HD21	2:F4:111:ILE:HB	1.72	0.71
1:B:374:SER:CA	1:b:364:ALA:HB3	2.17	0.71
1:b2:80:HIS:O	1:b2:400:ARG:NH2	2.21	0.71
1:b3:473:SER:HA	1:b3:477:LYS:HE2	1.71	0.71
2:C0:50:MET:HB3	2:D0:258:VAL:HG23	1.72	0.71
2:E2:8:GLN:H	2:E2:307:ASN:HB3	1.56	0.71
2:A3:64:ARG:H	2:A3:66:ARG:HH12	1.38	0.71
2:A3:78:VAL:HG12	2:A3:80:PRO:HD3	1.70	0.71
2:A3:82:HIS:CE1	2:F3:63:ILE:HD13	2.25	0.71
2:E3:310:THR:O	2:E3:315:ALA:HA	1.88	0.71
2:A4:82:HIS:CE1	2:F4:63:ILE:HD13	2.25	0.71
2:D4:64:ARG:H	2:D4:66:ARG:HH12	1.38	0.71
2:F4:64:ARG:H	2:F4:66:ARG:HH12	1.38	0.71
1:B1:370:TYR:CB	1:b1:360:ARG:HH22	2.02	0.71
2:G0:312:GLY:HA2	2:C1:308:TRP:CZ3	2.26	0.71
2:C0:308:TRP:CZ3	2:G4:312:GLY:HA2	2.26	0.71
2:A1:82:HIS:CE1	2:F1:63:ILE:HD13	2.25	0.71
2:D1:90:LEU:HD21	2:D1:111:ILE:HB	1.72	0.71
2:G3:90:LEU:HD21	2:G3:111:ILE:HB	1.72	0.71
2:D3:8:GLN:H	2:D3:307:ASN:HB3	1.56	0.71
2:D3:90:LEU:HD21	2:D3:111:ILE:HB	1.72	0.71
2:C4:64:ARG:H	2:C4:66:ARG:HH12	1.38	0.71
2:E4:8:GLN:H	2:E4:307:ASN:HB3	1.56	0.71
1:B:195:ILE:HG22	1:B:201:ALA:HA	1.73	0.71
1:B3:473:SER:HA	1:B3:477:LYS:HE2	1.71	0.71
2:G1:312:GLY:HA2	2:C2:308:TRP:CZ3	2.26	0.71
2:D2:225:ASN:HA	2:E2:242:LYS:HZ1	1.55	0.71
2:C3:50:MET:HB3	2:D3:258:VAL:HG23	1.72	0.71
1:b5:195:ILE:HG22	1:b5:201:ALA:HA	1.73	0.71
2:C0:90:LEU:HD21	2:C0:111:ILE:HB	1.72	0.71
2:E0:33:PRO:HA	2:E0:285:TYR:HB2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F0:8:GLN:H	2:F0:307:ASN:HB3	1.56	0.71
2:D1:296:GLU:HG3	2:D1:298:ILE:HG12	1.73	0.71
2:C2:296:GLU:HG3	2:C2:298:ILE:HG12	1.73	0.71
2:D3:33:PRO:HA	2:D3:285:TYR:HB2	1.73	0.71
2:D3:276:ASN:ND2	2:E3:263:LYS:HZ3	1.87	0.71
1:B:473:SER:HA	1:B:477:LYS:HE2	1.71	0.71
1:b:195:ILE:HG22	1:b:201:ALA:HA	1.73	0.71
1:B2:370:TYR:CD1	1:B2:373:LEU:HD12	2.24	0.71
1:b4:195:ILE:HG22	1:b4:201:ALA:HA	1.73	0.71
2:D0:8:GLN:H	2:D0:307:ASN:HB3	1.56	0.71
2:E1:8:GLN:H	2:E1:307:ASN:HB3	1.56	0.71
2:E1:90:LEU:HD21	2:E1:111:ILE:HB	1.72	0.71
2:A2:90:LEU:HD21	2:A2:111:ILE:HB	1.72	0.71
2:E2:296:GLU:HG3	2:E2:298:ILE:HG12	1.73	0.71
2:F2:296:GLU:HG3	2:F2:298:ILE:HG12	1.73	0.71
2:G3:8:GLN:H	2:G3:307:ASN:HB3	1.56	0.71
2:C3:33:PRO:HA	2:C3:285:TYR:HB2	1.73	0.71
2:A4:33:PRO:HA	2:A4:285:TYR:HB2	1.73	0.71
2:A4:64:ARG:H	2:A4:66:ARG:HH12	1.38	0.71
2:A4:90:LEU:HD21	2:A4:111:ILE:HB	1.72	0.71
1:b4:370:TYR:CB	1:B5:360:ARG:HH22	2.02	0.71
1:b4:374:SER:OG	1:B5:360:ARG:NE	2.23	0.71
1:B5:195:ILE:HG22	1:B5:201:ALA:HA	1.73	0.71
2:C1:296:GLU:HG3	2:C1:298:ILE:HG12	1.73	0.71
2:A2:310:THR:O	2:A2:315:ALA:HA	1.88	0.71
2:G3:312:GLY:HA2	2:C4:308:TRP:CZ3	2.26	0.71
2:F4:33:PRO:HA	2:F4:285:TYR:HB2	1.73	0.71
1:B1:195:ILE:HG22	1:B1:201:ALA:HA	1.73	0.71
2:G0:33:PRO:HA	2:G0:285:TYR:HB2	1.73	0.71
2:C1:33:PRO:HA	2:C1:285:TYR:HB2	1.73	0.71
2:C2:33:PRO:HA	2:C2:285:TYR:HB2	1.73	0.71
2:C2:50:MET:HB3	2:D2:258:VAL:HG23	1.72	0.71
2:F2:90:LEU:HD21	2:F2:111:ILE:HB	1.72	0.71
2:A3:33:PRO:HA	2:A3:285:TYR:HB2	1.73	0.71
2:E3:90:LEU:HD21	2:E3:111:ILE:HB	1.72	0.71
2:C4:8:GLN:H	2:C4:307:ASN:HB3	1.56	0.71
1:B:80:HIS:O	1:B:400:ARG:NH2	2.21	0.70
1:b1:195:ILE:HG22	1:b1:201:ALA:HA	1.73	0.70
1:B2:65:ARG:HH22	1:b2:41:PRO:HD2	1.53	0.70
1:b2:473:SER:HA	1:b2:477:LYS:HE2	1.71	0.70
1:B4:370:TYR:CB	1:b4:360:ARG:HH22	2.03	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D0:33:PRO:HA	2:D0:285:TYR:HB2	1.73	0.70
2:D0:64:ARG:H	2:D0:66:ARG:HH12	1.38	0.70
2:F1:8:GLN:H	2:F1:307:ASN:HB3	1.56	0.70
2:F3:296:GLU:HG3	2:F3:298:ILE:HG12	1.73	0.70
2:G4:296:GLU:HG3	2:G4:298:ILE:HG12	1.73	0.70
1:b1:370:TYR:CB	1:B2:360:ARG:HH22	2.02	0.70
1:B3:195:ILE:HG22	1:B3:201:ALA:HA	1.73	0.70
2:D2:296:GLU:HG3	2:D2:298:ILE:HG12	1.73	0.70
2:D3:225:ASN:HA	2:E3:242:LYS:HZ1	1.53	0.70
2:C4:33:PRO:HA	2:C4:285:TYR:HB2	1.73	0.70
2:D4:33:PRO:HA	2:D4:285:TYR:HB2	1.73	0.70
2:E4:296:GLU:HG3	2:E4:298:ILE:HG12	1.73	0.70
1:B2:195:ILE:HG22	1:B2:201:ALA:HA	1.73	0.70
1:b2:195:ILE:HG22	1:b2:201:ALA:HA	1.73	0.70
1:b3:370:TYR:CB	1:B4:360:ARG:HH22	2.04	0.70
1:B4:195:ILE:HG22	1:B4:201:ALA:HA	1.73	0.70
2:A0:33:PRO:HA	2:A0:285:TYR:HB2	1.73	0.70
2:G0:90:LEU:HD21	2:G0:111:ILE:HB	1.72	0.70
2:C0:8:GLN:H	2:C0:307:ASN:HB3	1.56	0.70
2:G1:33:PRO:HA	2:G1:285:TYR:HB2	1.73	0.70
2:C1:50:MET:HB3	2:D1:258:VAL:HG23	1.72	0.70
2:G2:90:LEU:HD21	2:G2:111:ILE:HB	1.72	0.70
2:C2:8:GLN:H	2:C2:307:ASN:HB3	1.56	0.70
2:D2:64:ARG:H	2:D2:66:ARG:HH12	1.38	0.70
2:F3:64:ARG:H	2:F3:66:ARG:HH12	1.38	0.70
2:F3:90:LEU:HD21	2:F3:111:ILE:HB	1.72	0.70
1:b1:124:CYS:SG	1:B2:406:ARG:NH2	2.65	0.70
1:B2:90:HIS:NE2	1:B2:442:TRP:O	2.20	0.70
1:b3:195:ILE:HG22	1:b3:201:ALA:HA	1.73	0.70
2:F1:33:PRO:HA	2:F1:285:TYR:HB2	1.73	0.70
2:G2:312:GLY:HA2	2:C3:308:TRP:CZ3	2.26	0.70
2:C3:296:GLU:HG3	2:C3:298:ILE:HG12	1.73	0.70
2:D4:8:GLN:H	2:D4:307:ASN:HB3	1.56	0.70
2:D0:90:LEU:HD21	2:D0:111:ILE:HB	1.72	0.70
2:C0:296:GLU:HG3	2:C0:298:ILE:HG12	1.73	0.70
2:C3:8:GLN:H	2:C3:307:ASN:HB3	1.56	0.70
2:E3:8:GLN:H	2:E3:307:ASN:HB3	1.56	0.70
2:G4:8:GLN:H	2:G4:307:ASN:HB3	1.56	0.70
2:E4:64:ARG:H	2:E4:66:ARG:HH12	1.37	0.70
2:F4:8:GLN:H	2:F4:307:ASN:HB3	1.56	0.70
1:B1:90:HIS:NE2	1:B1:442:TRP:O	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:8:GLN:H	2:A0:307:ASN:HB3	1.56	0.70
2:A0:296:GLU:HG3	2:A0:298:ILE:HG12	1.73	0.70
2:D0:64:ARG:NH1	2:E0:316:ARG:HE	1.87	0.70
2:C1:8:GLN:H	2:C1:307:ASN:HB3	1.56	0.70
2:D1:64:ARG:H	2:D1:66:ARG:HH12	1.38	0.70
2:F1:296:GLU:HG3	2:F1:298:ILE:HG12	1.73	0.70
2:G2:33:PRO:HA	2:G2:285:TYR:HB2	1.73	0.70
2:D3:64:ARG:H	2:D3:66:ARG:HH12	1.38	0.70
2:G4:50:MET:CE	2:C4:125:GLN:HG2	2.21	0.70
2:D4:90:LEU:HD21	2:D4:111:ILE:HB	1.72	0.70
2:E0:64:ARG:H	2:E0:66:ARG:HH12	1.38	0.70
2:A2:296:GLU:HG3	2:A2:298:ILE:HG12	1.73	0.70
2:G2:64:ARG:H	2:G2:66:ARG:HH12	1.37	0.70
2:D2:33:PRO:HA	2:D2:285:TYR:HB2	1.73	0.70
2:F3:33:PRO:HA	2:F3:285:TYR:HB2	1.73	0.70
2:A4:8:GLN:H	2:A4:307:ASN:HB3	1.56	0.70
1:B3:80:HIS:O	1:B3:400:ARG:NH2	2.21	0.70
1:B5:80:HIS:O	1:B5:400:ARG:NH2	2.21	0.70
1:B5:184:GLY:H	2:G2:109:ARG:NH2	1.89	0.70
2:D0:296:GLU:HG3	2:D0:298:ILE:HG12	1.73	0.70
2:G1:90:LEU:HD21	2:G1:111:ILE:HB	1.72	0.70
2:A2:33:PRO:HA	2:A2:285:TYR:HB2	1.73	0.70
1:b:374:SER:CA	1:B1:364:ALA:HB3	2.19	0.70
1:B2:124:CYS:SG	1:b2:406:ARG:NH2	2.65	0.70
2:F1:64:ARG:H	2:F1:66:ARG:HH12	1.38	0.70
2:D4:64:ARG:HH12	2:E4:316:ARG:NE	1.88	0.70
1:B1:124:CYS:SG	1:b1:406:ARG:NH2	2.65	0.69
1:b1:90:HIS:NE2	1:b1:442:TRP:O	2.20	0.69
1:B2:36:ARG:CB	2:C0:104:PRO:CG	2.50	0.69
2:A1:8:GLN:H	2:A1:307:ASN:HB3	1.56	0.69
2:D1:225:ASN:HA	2:E1:242:LYS:HZ1	1.56	0.69
2:E1:64:ARG:H	2:E1:66:ARG:HH12	1.38	0.69
2:G2:8:GLN:H	2:G2:307:ASN:HB3	1.56	0.69
2:E2:33:PRO:HA	2:E2:285:TYR:HB2	1.73	0.69
2:F2:8:GLN:H	2:F2:307:ASN:HB3	1.56	0.69
1:B:376:ASN:N	1:b:360:ARG:HH11	1.80	0.69
2:E0:8:GLN:H	2:E0:307:ASN:HB3	1.56	0.69
2:A3:296:GLU:HG3	2:A3:298:ILE:HG12	1.73	0.69
2:E3:296:GLU:HG3	2:E3:298:ILE:HG12	1.73	0.69
2:C4:50:MET:HB3	2:D4:258:VAL:HG23	1.72	0.69
2:C4:296:GLU:HG3	2:C4:298:ILE:HG12	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E4:90:LEU:HD21	2:E4:111:ILE:HB	1.72	0.69
2:F4:296:GLU:HG3	2:F4:298:ILE:HG12	1.73	0.69
1:B2:370:TYR:CB	1:b2:360:ARG:HH22	2.03	0.69
2:F0:33:PRO:HA	2:F0:285:TYR:HB2	1.73	0.69
2:G1:8:GLN:H	2:G1:307:ASN:HB3	1.56	0.69
2:A2:8:GLN:H	2:A2:307:ASN:HB3	1.56	0.69
2:D4:296:GLU:HG3	2:D4:298:ILE:HG12	1.73	0.69
1:B2:374:SER:CA	1:b2:364:ALA:HB3	2.17	0.69
1:b4:90:HIS:NE2	1:b4:442:TRP:O	2.20	0.69
2:G3:33:PRO:HA	2:G3:285:TYR:HB2	1.73	0.69
2:D3:64:ARG:HH12	2:E3:316:ARG:NE	1.88	0.69
1:B5:370:TYR:CB	1:b5:360:ARG:HH22	2.04	0.69
2:D1:33:PRO:HA	2:D1:285:TYR:HB2	1.73	0.69
1:b3:124:CYS:SG	1:B4:406:ARG:NH2	2.66	0.69
2:G2:296:GLU:HG3	2:G2:298:ILE:HG12	1.73	0.69
2:E3:33:PRO:HA	2:E3:285:TYR:HB2	1.73	0.69
2:G4:33:PRO:HA	2:G4:285:TYR:HB2	1.73	0.69
1:B:124:CYS:SG	1:b:406:ARG:NH2	2.65	0.69
1:B1:80:HIS:O	1:B1:400:ARG:NH2	2.21	0.69
1:b2:124:CYS:SG	1:B3:406:ARG:NH2	2.65	0.69
1:B3:492:GLN:OE1	1:B3:495:ARG:NH1	2.26	0.69
2:G0:296:GLU:HG3	2:G0:298:ILE:HG12	1.73	0.69
2:F0:296:GLU:HG3	2:F0:298:ILE:HG12	1.73	0.69
2:G1:296:GLU:HG3	2:G1:298:ILE:HG12	1.73	0.69
1:b:124:CYS:SG	1:B1:406:ARG:NH2	2.66	0.69
1:b:370:TYR:CB	1:B1:360:ARG:HH22	2.04	0.69
2:A1:33:PRO:HA	2:A1:285:TYR:HB2	1.73	0.69
2:E1:33:PRO:HA	2:E1:285:TYR:HB2	1.73	0.69
2:E1:296:GLU:HG3	2:E1:298:ILE:HG12	1.73	0.69
2:D2:64:ARG:HH12	2:E2:316:ARG:NE	1.88	0.69
2:A3:8:GLN:H	2:A3:307:ASN:HB3	1.56	0.69
2:D3:296:GLU:HG3	2:D3:298:ILE:HG12	1.73	0.69
1:b2:492:GLN:OE1	1:b2:495:ARG:NH1	2.26	0.69
1:B:360:ARG:NE	1:b5:374:SER:OG	2.25	0.69
1:b:91:ARG:HH22	1:b:105:ARG:HA	1.58	0.69
1:B3:91:ARG:HH22	1:B3:105:ARG:HA	1.58	0.69
2:G0:50:MET:CE	2:C0:125:GLN:HG2	2.21	0.69
2:C0:33:PRO:HA	2:C0:285:TYR:HB2	1.73	0.69
2:F2:33:PRO:HA	2:F2:285:TYR:HB2	1.73	0.69
2:A4:296:GLU:HG3	2:A4:298:ILE:HG12	1.73	0.69
1:B:360:ARG:HH22	1:b5:370:TYR:CB	2.04	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:124:CYS:SG	1:b5:406:ARG:NH2	2.66	0.68
1:B:492:GLN:OE1	1:B:495:ARG:NH1	2.26	0.68
1:b:492:GLN:OE1	1:b:495:ARG:NH1	2.26	0.68
1:B4:124:CYS:SG	1:b4:406:ARG:NH2	2.66	0.68
1:b4:265:GLN:HE21	1:B5:259:LYS:HZ2	1.39	0.68
2:E2:64:ARG:H	2:E2:66:ARG:HH12	1.37	0.68
1:B:91:ARG:HH22	1:B:105:ARG:HA	1.58	0.68
1:b1:374:SER:CA	1:B2:364:ALA:HB3	2.18	0.68
1:b1:492:GLN:OE1	1:b1:495:ARG:NH1	2.26	0.68
1:b2:91:ARG:HH22	1:b2:105:ARG:HA	1.58	0.68
2:E0:290:ASP:OD2	2:E0:322:GLN:NE2	2.27	0.68
2:G2:290:ASP:OD2	2:G2:322:GLN:NE2	2.27	0.68
2:G3:296:GLU:HG3	2:G3:298:ILE:HG12	1.73	0.68
1:B1:492:GLN:OE1	1:B1:495:ARG:NH1	2.26	0.68
1:b4:492:GLN:OE1	1:b4:495:ARG:NH1	2.26	0.68
2:A1:296:GLU:HG3	2:A1:298:ILE:HG12	1.73	0.68
2:G1:290:ASP:OD2	2:G1:322:GLN:NE2	2.27	0.68
2:E1:290:ASP:OD2	2:E1:322:GLN:NE2	2.27	0.68
2:E3:290:ASP:OD2	2:E3:322:GLN:NE2	2.27	0.68
2:E4:290:ASP:OD2	2:E4:322:GLN:NE2	2.27	0.68
1:B:259:LYS:HZ2	1:b5:265:GLN:HE21	1.39	0.68
1:b3:91:ARG:HH22	1:b3:105:ARG:HA	1.58	0.68
1:b3:492:GLN:OE1	1:b3:495:ARG:NH1	2.26	0.68
2:G0:53:TYR:HB3	2:C0:78:VAL:HG13	1.75	0.68
2:C0:290:ASP:OD2	2:C0:322:GLN:NE2	2.27	0.68
2:F1:290:ASP:OD2	2:F1:322:GLN:NE2	2.27	0.68
1:B1:91:ARG:HH22	1:B1:105:ARG:HA	1.58	0.68
1:B1:374:SER:CA	1:b1:364:ALA:HB3	2.18	0.68
1:B2:492:GLN:OE1	1:B2:495:ARG:NH1	2.26	0.68
1:b4:124:CYS:SG	1:B5:406:ARG:NH2	2.67	0.68
1:B5:125:CYS:O	1:B5:168:GLN:NE2	2.27	0.68
2:E0:296:GLU:HG3	2:E0:298:ILE:HG12	1.73	0.68
2:G1:50:MET:CE	2:C1:125:GLN:HG2	2.21	0.68
2:A2:290:ASP:OD2	2:A2:322:GLN:NE2	2.27	0.68
2:D3:290:ASP:OD2	2:D3:322:GLN:NE2	2.27	0.68
1:B3:124:CYS:SG	1:b3:406:ARG:NH2	2.66	0.68
1:B4:492:GLN:OE1	1:B4:495:ARG:NH1	2.26	0.68
1:b5:492:GLN:OE1	1:b5:495:ARG:NH1	2.26	0.68
2:G2:53:TYR:HB3	2:C2:78:VAL:HG13	1.75	0.68
2:F2:290:ASP:OD2	2:F2:322:GLN:NE2	2.27	0.68
1:b4:91:ARG:HH22	1:b4:105:ARG:HA	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E4:33:PRO:HA	2:E4:285:TYR:HB2	1.73	0.68
1:B:187:ARG:NH1	1:b5:215:MET:HG2	2.09	0.68
1:b2:125:CYS:O	1:b2:168:GLN:NE2	2.27	0.68
1:B4:125:CYS:O	1:B4:168:GLN:NE2	2.27	0.68
1:B5:492:GLN:OE1	1:B5:495:ARG:NH1	2.26	0.68
1:B:125:CYS:O	1:B:168:GLN:NE2	2.27	0.68
1:B2:80:HIS:O	1:B2:400:ARG:NH2	2.21	0.68
1:B2:91:ARG:HH22	1:B2:105:ARG:HA	1.58	0.68
1:b3:125:CYS:O	1:b3:168:GLN:NE2	2.27	0.68
2:C2:290:ASP:OD2	2:C2:322:GLN:NE2	2.27	0.68
2:G3:290:ASP:OD2	2:G3:322:GLN:NE2	2.27	0.68
2:C3:290:ASP:OD2	2:C3:322:GLN:NE2	2.27	0.68
2:G4:53:TYR:HB3	2:C4:78:VAL:HG13	1.75	0.68
2:F4:290:ASP:OD2	2:F4:322:GLN:NE2	2.27	0.68
1:B2:125:CYS:O	1:B2:168:GLN:NE2	2.27	0.67
1:B4:80:HIS:O	1:B4:400:ARG:NH2	2.21	0.67
1:b5:91:ARG:HH22	1:b5:105:ARG:HA	1.58	0.67
2:G0:290:ASP:OD2	2:G0:322:GLN:NE2	2.27	0.67
2:F0:310:THR:HG21	2:F0:314:PRO:HG2	1.77	0.67
2:D1:310:THR:HG21	2:D1:314:PRO:HG2	1.77	0.67
2:F4:310:THR:HG21	2:F4:314:PRO:HG2	1.77	0.67
1:B3:179:ASN:OD1	1:B3:192:GLY:N	2.27	0.67
1:B4:179:ASN:OD1	1:B4:192:GLY:N	2.27	0.67
1:b4:179:ASN:OD1	1:b4:192:GLY:N	2.27	0.67
2:A0:165:SER:HA	2:A0:169:GLU:HG3	1.77	0.67
2:C0:310:THR:HG21	2:C0:314:PRO:HG2	1.77	0.67
2:D1:290:ASP:OD2	2:D1:322:GLN:NE2	2.27	0.67
2:E1:165:SER:HA	2:E1:169:GLU:HG3	1.77	0.67
2:A4:310:THR:HG21	2:A4:314:PRO:HG2	1.76	0.67
2:D4:310:THR:HG21	2:D4:314:PRO:HG2	1.76	0.67
1:B1:125:CYS:O	1:B1:168:GLN:NE2	2.27	0.67
1:b3:179:ASN:OD1	1:b3:192:GLY:N	2.27	0.67
2:G0:219:ASP:N	2:G0:244:MET:O	2.28	0.67
2:C0:219:ASP:N	2:C0:244:MET:O	2.28	0.67
2:D1:64:ARG:HH12	2:E1:316:ARG:NE	1.88	0.67
2:E2:219:ASP:N	2:E2:244:MET:O	2.28	0.67
2:A4:165:SER:HA	2:A4:169:GLU:HG3	1.77	0.67
2:C4:219:ASP:N	2:C4:244:MET:O	2.28	0.67
2:C4:310:THR:HG21	2:C4:314:PRO:HG2	1.77	0.67
1:b2:179:ASN:OD1	1:b2:192:GLY:N	2.27	0.67
2:D0:219:ASP:N	2:D0:244:MET:O	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E2:54:VAL:HG11	2:E2:59:SER:HA	1.77	0.67
2:F2:54:VAL:HG11	2:F2:59:SER:HA	1.77	0.67
2:G3:310:THR:HG21	2:G3:314:PRO:HG2	1.77	0.67
2:F3:290:ASP:OD2	2:F3:322:GLN:NE2	2.27	0.67
1:b1:36:ARG:NE	2:G0:295:ARG:O	2.28	0.67
1:B4:91:ARG:HH22	1:B4:105:ARG:HA	1.58	0.67
2:C0:54:VAL:HG11	2:C0:59:SER:HA	1.77	0.67
2:C1:54:VAL:HG11	2:C1:59:SER:HA	1.77	0.67
2:C1:165:SER:HA	2:C1:169:GLU:HG3	1.77	0.67
2:A3:165:SER:HA	2:A3:169:GLU:HG3	1.77	0.67
2:D3:310:THR:HG21	2:D3:314:PRO:HG2	1.77	0.67
2:F3:310:THR:HG21	2:F3:314:PRO:HG2	1.77	0.67
1:B3:265:GLN:HE21	1:b3:259:LYS:HZ2	1.42	0.67
2:A0:310:THR:HG21	2:A0:314:PRO:HG2	1.77	0.67
2:C0:165:SER:HA	2:C0:169:GLU:HG3	1.77	0.67
2:D0:165:SER:HA	2:D0:169:GLU:HG3	1.77	0.67
2:D0:310:THR:HG21	2:D0:314:PRO:HG2	1.77	0.67
2:E0:54:VAL:HG11	2:E0:59:SER:HA	1.77	0.67
2:E1:310:THR:HG21	2:E1:314:PRO:HG2	1.77	0.67
2:E2:310:THR:HG21	2:E2:314:PRO:HG2	1.77	0.67
2:E3:219:ASP:N	2:E3:244:MET:O	2.28	0.67
1:B2:179:ASN:OD1	1:B2:192:GLY:N	2.27	0.67
1:b4:125:CYS:O	1:b4:168:GLN:NE2	2.27	0.67
1:B5:374:SER:CA	1:b5:364:ALA:HB3	2.18	0.67
2:D0:290:ASP:OD2	2:D0:322:GLN:NE2	2.27	0.67
2:F0:219:ASP:N	2:F0:244:MET:O	2.28	0.67
2:A1:165:SER:HA	2:A1:169:GLU:HG3	1.77	0.67
2:A2:54:VAL:HG11	2:A2:59:SER:HA	1.77	0.67
2:G2:310:THR:HG21	2:G2:314:PRO:HG2	1.77	0.67
2:A3:310:THR:HG21	2:A3:314:PRO:HG2	1.77	0.67
1:b:80:HIS:O	1:b:400:ARG:NH2	2.21	0.67
1:b:125:CYS:O	1:b:168:GLN:NE2	2.27	0.67
2:A1:219:ASP:N	2:A1:244:MET:O	2.27	0.67
2:G1:219:ASP:N	2:G1:244:MET:O	2.28	0.67
2:F1:54:VAL:HG11	2:F1:59:SER:HA	1.77	0.67
2:F1:310:THR:HG21	2:F1:314:PRO:HG2	1.76	0.67
2:A2:310:THR:HG21	2:A2:314:PRO:HG2	1.77	0.67
2:E2:290:ASP:OD2	2:E2:322:GLN:NE2	2.27	0.67
2:F3:165:SER:HA	2:F3:169:GLU:HG3	1.77	0.67
2:C4:290:ASP:OD2	2:C4:322:GLN:NE2	2.27	0.67
2:D4:54:VAL:HG11	2:D4:59:SER:HA	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D4:290:ASP:OD2	2:D4:322:GLN:NE2	2.27	0.67
1:B:406:ARG:NH2	1:b5:124:CYS:SG	2.68	0.67
1:B2:39:ASN:ND2	2:C0:103:ASP:CG	2.53	0.67
1:B3:375:ARG:HD2	1:b3:369:SER:HB2	1.77	0.67
2:D0:54:VAL:HG11	2:D0:59:SER:HA	1.77	0.67
2:A1:334:GLU:OE2	2:G1:263:LYS:HE3	1.95	0.67
2:C1:310:THR:HG21	2:C1:314:PRO:HG2	1.77	0.67
2:D2:310:THR:HG21	2:D2:314:PRO:HG2	1.77	0.67
2:F2:165:SER:HA	2:F2:169:GLU:HG3	1.77	0.67
2:G3:165:SER:HA	2:G3:169:GLU:HG3	1.77	0.67
2:G3:219:ASP:N	2:G3:244:MET:O	2.27	0.67
2:G4:310:THR:HG21	2:G4:314:PRO:HG2	1.77	0.67
2:D4:270:ASN:HB3	2:D4:340:LEU:HB2	1.77	0.67
1:b1:91:ARG:HH22	1:b1:105:ARG:HA	1.58	0.67
2:E0:219:ASP:N	2:E0:244:MET:O	2.28	0.67
2:G1:53:TYR:HB3	2:C1:78:VAL:HG13	1.75	0.67
2:A2:165:SER:HA	2:A2:169:GLU:HG3	1.77	0.67
2:G2:219:ASP:N	2:G2:244:MET:O	2.28	0.67
2:C2:54:VAL:HG11	2:C2:59:SER:HA	1.77	0.67
2:G3:53:TYR:HB3	2:C3:78:VAL:HG13	1.75	0.67
2:E3:165:SER:HA	2:E3:169:GLU:HG3	1.77	0.67
2:F3:54:VAL:HG11	2:F3:59:SER:HA	1.77	0.67
2:F4:54:VAL:HG11	2:F4:59:SER:HA	1.77	0.67
1:B:265:GLN:HE21	1:b:259:LYS:HZ2	1.40	0.66
1:B3:125:CYS:O	1:B3:168:GLN:NE2	2.27	0.66
2:F0:54:VAL:HG11	2:F0:59:SER:HA	1.77	0.66
2:A1:270:ASN:HB3	2:A1:340:LEU:HB2	1.77	0.66
2:C1:219:ASP:N	2:C1:244:MET:O	2.27	0.66
2:G2:50:MET:CE	2:C2:125:GLN:HG2	2.21	0.66
2:D2:219:ASP:N	2:D2:244:MET:O	2.27	0.66
2:A3:219:ASP:N	2:A3:244:MET:O	2.28	0.66
2:C3:310:THR:HG21	2:C3:314:PRO:HG2	1.77	0.66
2:E4:165:SER:HA	2:E4:169:GLU:HG3	1.77	0.66
1:B1:214:TRP:CA	2:G0:103:ASP:OD2	2.43	0.66
1:b5:125:CYS:O	1:b5:168:GLN:NE2	2.27	0.66
2:A0:104:PRO:HA	2:A0:107:ARG:HG2	1.78	0.66
2:A0:219:ASP:N	2:A0:244:MET:O	2.27	0.66
2:F0:290:ASP:OD2	2:F0:322:GLN:NE2	2.27	0.66
2:A1:290:ASP:OD2	2:A1:322:GLN:NE2	2.27	0.66
2:A1:310:THR:HG21	2:A1:314:PRO:HG2	1.76	0.66
2:F2:310:THR:HG21	2:F2:314:PRO:HG2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:290:ASP:OD2	2:A3:322:GLN:NE2	2.27	0.66
2:D3:219:ASP:N	2:D3:244:MET:O	2.28	0.66
1:b1:125:CYS:O	1:b1:168:GLN:NE2	2.27	0.66
1:B3:368:VAL:HG12	1:B3:396:PHE:HZ	1.60	0.66
2:A0:290:ASP:OD2	2:A0:322:GLN:NE2	2.27	0.66
2:A0:334:GLU:OE2	2:G0:263:LYS:HE3	1.95	0.66
2:C0:104:PRO:HA	2:C0:107:ARG:HG2	1.78	0.66
2:D2:270:ASN:HB3	2:D2:340:LEU:HB2	1.77	0.66
2:F3:219:ASP:N	2:F3:244:MET:O	2.27	0.66
2:G4:165:SER:HA	2:G4:169:GLU:HG3	1.77	0.66
1:b2:368:VAL:HG12	1:b2:396:PHE:HZ	1.60	0.66
1:b2:374:SER:CA	1:B3:364:ALA:HB3	2.20	0.66
2:G0:310:THR:HG21	2:G0:314:PRO:HG2	1.77	0.66
2:D0:270:ASN:HB3	2:D0:340:LEU:HB2	1.77	0.66
2:A1:54:VAL:HG11	2:A1:59:SER:HA	1.77	0.66
2:C2:104:PRO:HA	2:C2:107:ARG:HG2	1.78	0.66
2:C2:165:SER:HA	2:C2:169:GLU:HG3	1.77	0.66
2:E2:104:PRO:HA	2:E2:107:ARG:HG2	1.78	0.66
2:C4:54:VAL:HG11	2:C4:59:SER:HA	1.77	0.66
2:D4:165:SER:HA	2:D4:169:GLU:HG3	1.77	0.66
1:b3:368:VAL:HG12	1:b3:396:PHE:HZ	1.60	0.66
2:F0:270:ASN:HB3	2:F0:340:LEU:HB2	1.77	0.66
2:C1:290:ASP:OD2	2:C1:322:GLN:NE2	2.27	0.66
2:D1:104:PRO:HA	2:D1:107:ARG:HG2	1.78	0.66
2:D1:165:SER:HA	2:D1:169:GLU:HG3	1.76	0.66
2:G2:54:VAL:HG11	2:G2:59:SER:HA	1.77	0.66
2:A3:54:VAL:HG11	2:A3:59:SER:HA	1.77	0.66
2:D3:270:ASN:HB3	2:D3:340:LEU:HB2	1.77	0.66
1:b1:179:ASN:OD1	1:b1:192:GLY:N	2.27	0.66
1:B2:368:VAL:HG12	1:B2:396:PHE:HZ	1.60	0.66
1:b4:259:LYS:HZ2	1:b4:260:MET:HE3	1.61	0.66
1:B5:91:ARG:HH22	1:B5:105:ARG:HA	1.58	0.66
2:F0:165:SER:HA	2:F0:169:GLU:HG3	1.77	0.66
2:G1:165:SER:HA	2:G1:169:GLU:HG3	1.77	0.66
2:E1:54:VAL:HG11	2:E1:59:SER:HA	1.77	0.66
2:F1:219:ASP:N	2:F1:244:MET:O	2.28	0.66
2:A3:270:ASN:HB3	2:A3:340:LEU:HB2	1.77	0.66
2:G3:270:ASN:HB3	2:G3:340:LEU:HB2	1.77	0.66
2:E3:54:VAL:HG11	2:E3:59:SER:HA	1.77	0.66
2:E3:104:PRO:HA	2:E3:107:ARG:HG2	1.78	0.66
2:G4:54:VAL:HG11	2:G4:59:SER:HA	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G4:104:PRO:HA	2:G4:107:ARG:HG2	1.78	0.66
2:E4:310:THR:HG21	2:E4:314:PRO:HG2	1.76	0.66
2:F4:219:ASP:N	2:F4:244:MET:O	2.27	0.66
1:B5:368:VAL:HG12	1:B5:396:PHE:HZ	1.60	0.66
2:G0:104:PRO:HA	2:G0:107:ARG:HG2	1.78	0.66
2:D0:104:PRO:HA	2:D0:107:ARG:HG2	1.78	0.66
2:G1:310:THR:HG21	2:G1:314:PRO:HG2	1.77	0.66
2:A2:219:ASP:N	2:A2:244:MET:O	2.28	0.66
2:C2:270:ASN:HB3	2:C2:340:LEU:HB2	1.77	0.66
2:F2:104:PRO:HA	2:F2:107:ARG:HG2	1.78	0.66
2:A4:270:ASN:HB3	2:A4:340:LEU:HB2	1.77	0.66
2:E1:104:PRO:HA	2:E1:107:ARG:HG2	1.78	0.66
2:D2:104:PRO:HA	2:D2:107:ARG:HG2	1.78	0.66
2:E2:165:SER:HA	2:E2:169:GLU:HG3	1.77	0.66
2:G4:290:ASP:OD2	2:G4:322:GLN:NE2	2.27	0.66
2:C4:165:SER:HA	2:C4:169:GLU:HG3	1.77	0.66
2:E4:104:PRO:HA	2:E4:107:ARG:HG2	1.78	0.66
2:F4:270:ASN:HB3	2:F4:340:LEU:HB2	1.77	0.66
2:E0:165:SER:HA	2:E0:169:GLU:HG3	1.77	0.66
2:E0:270:ASN:HB3	2:E0:340:LEU:HB2	1.77	0.66
2:D1:270:ASN:HB3	2:D1:340:LEU:HB2	1.77	0.66
2:D2:165:SER:HA	2:D2:169:GLU:HG3	1.77	0.66
2:D3:165:SER:HA	2:D3:169:GLU:HG3	1.77	0.66
2:E1:270:ASN:HB3	2:E1:340:LEU:HB2	1.78	0.66
2:A2:334:GLU:OE2	2:G2:263:LYS:HE3	1.95	0.66
2:C3:104:PRO:HA	2:C3:107:ARG:HG2	1.78	0.66
2:A4:290:ASP:OD2	2:A4:322:GLN:NE2	2.27	0.66
2:G0:270:ASN:HB3	2:G0:340:LEU:HB2	1.77	0.65
2:E0:47:LEU:HD11	2:F0:258:VAL:HG11	1.78	0.65
2:E1:219:ASP:N	2:E1:244:MET:O	2.28	0.65
2:G2:165:SER:HA	2:G2:169:GLU:HG3	1.77	0.65
1:B:368:VAL:HG12	1:B:396:PHE:HZ	1.60	0.65
1:B4:368:VAL:HG12	1:B4:396:PHE:HZ	1.60	0.65
1:b4:215:MET:HG2	1:B5:187:ARG:NH1	2.11	0.65
1:b5:144:MET:HE3	1:b5:151:LEU:HA	1.79	0.65
2:F1:104:PRO:HA	2:F1:107:ARG:HG2	1.78	0.65
2:A2:270:ASN:HB3	2:A2:340:LEU:HB2	1.77	0.65
2:G2:270:ASN:HB3	2:G2:340:LEU:HB2	1.77	0.65
2:A3:104:PRO:HA	2:A3:107:ARG:HG2	1.77	0.65
2:C3:54:VAL:HG11	2:C3:59:SER:HA	1.77	0.65
2:G4:219:ASP:N	2:G4:244:MET:O	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E4:219:ASP:N	2:E4:244:MET:O	2.28	0.65
1:B:144:MET:HE3	1:B:151:LEU:HA	1.79	0.65
1:b:179:ASN:OD1	1:b:192:GLY:N	2.27	0.65
1:b:265:GLN:HE21	1:B1:259:LYS:HZ2	1.42	0.65
1:B1:179:ASN:OD1	1:B1:192:GLY:N	2.27	0.65
1:B4:215:MET:HG2	1:b4:187:ARG:NH1	2.12	0.65
1:B5:144:MET:HE3	1:B5:151:LEU:HA	1.79	0.65
2:C0:270:ASN:HB3	2:C0:340:LEU:HB2	1.77	0.65
2:C2:219:ASP:N	2:C2:244:MET:O	2.27	0.65
2:C2:310:THR:HG21	2:C2:314:PRO:HG2	1.77	0.65
2:D2:290:ASP:OD2	2:D2:322:GLN:NE2	2.27	0.65
2:C4:270:ASN:HB3	2:C4:340:LEU:HB2	1.77	0.65
2:D4:219:ASP:N	2:D4:244:MET:O	2.28	0.65
1:b1:368:VAL:HG12	1:b1:396:PHE:HZ	1.60	0.65
1:b2:215:MET:HG2	1:B3:187:ARG:NH1	2.11	0.65
1:b2:334:MET:N	1:b2:334:MET:SD	2.69	0.65
1:B4:144:MET:HE3	1:B4:151:LEU:HA	1.79	0.65
1:b4:144:MET:HE3	1:b4:151:LEU:HA	1.79	0.65
2:A0:270:ASN:HB3	2:A0:340:LEU:HB2	1.77	0.65
2:E0:104:PRO:HA	2:E0:107:ARG:HG2	1.78	0.65
2:D1:194:VAL:N	2:E1:263:LYS:HZ1	1.95	0.65
2:C2:77:TYR:HD2	2:C2:324:ALA:HB2	1.62	0.65
2:F2:270:ASN:HB3	2:F2:340:LEU:HB2	1.77	0.65
2:G3:54:VAL:HG11	2:G3:59:SER:HA	1.77	0.65
2:E3:310:THR:HG21	2:E3:314:PRO:HG2	1.77	0.65
1:b:438:ALA:HB1	1:b:441:ALA:HB3	1.78	0.65
1:b3:265:GLN:HE21	1:B4:259:LYS:HZ2	1.42	0.65
2:A0:54:VAL:HG11	2:A0:59:SER:HA	1.77	0.65
2:A0:77:TYR:HD2	2:A0:324:ALA:HB2	1.62	0.65
2:G0:54:VAL:HG11	2:G0:59:SER:HA	1.77	0.65
2:A2:104:PRO:HA	2:A2:107:ARG:HG2	1.78	0.65
2:D2:54:VAL:HG11	2:D2:59:SER:HA	1.77	0.65
2:E2:47:LEU:HD11	2:F2:258:VAL:HG11	1.78	0.65
2:C3:165:SER:HA	2:C3:169:GLU:HG3	1.77	0.65
2:E3:270:ASN:HB3	2:E3:340:LEU:HB2	1.77	0.65
2:C4:104:PRO:HA	2:C4:107:ARG:HG2	1.78	0.65
1:b3:144:MET:HE3	1:b3:151:LEU:HA	1.79	0.65
2:G0:165:SER:HA	2:G0:169:GLU:HG3	1.77	0.65
2:D0:77:TYR:HD2	2:D0:324:ALA:HB2	1.62	0.65
2:C1:77:TYR:HD2	2:C1:324:ALA:HB2	1.62	0.65
2:A4:104:PRO:HA	2:A4:107:ARG:HG2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E4:54:VAL:HG11	2:E4:59:SER:HA	1.77	0.65
2:E4:270:ASN:HB3	2:E4:340:LEU:HB2	1.77	0.65
2:F4:165:SER:HA	2:F4:169:GLU:HG3	1.77	0.65
1:B:375:ARG:HD2	1:b:369:SER:HB2	1.79	0.65
1:B2:334:MET:N	1:B2:334:MET:SD	2.69	0.65
1:B3:144:MET:HE3	1:B3:151:LEU:HA	1.78	0.65
1:B4:334:MET:SD	1:B4:334:MET:N	2.69	0.65
1:b5:80:HIS:O	1:b5:400:ARG:NH2	2.21	0.65
2:C1:270:ASN:HB3	2:C1:340:LEU:HB2	1.77	0.65
2:D1:77:TYR:HD2	2:D1:324:ALA:HB2	1.62	0.65
2:F1:165:SER:HA	2:F1:169:GLU:HG3	1.77	0.65
2:F1:270:ASN:HB3	2:F1:340:LEU:HB2	1.77	0.65
2:E2:270:ASN:HB3	2:E2:340:LEU:HB2	1.77	0.65
2:F3:77:TYR:HD2	2:F3:324:ALA:HB2	1.62	0.65
1:B:438:ALA:HB1	1:B:441:ALA:HB3	1.78	0.65
1:b:144:MET:HE3	1:b:151:LEU:HA	1.79	0.65
1:b2:370:TYR:CB	1:B3:360:ARG:HH22	2.06	0.65
1:B3:438:ALA:HB1	1:B3:441:ALA:HB3	1.78	0.65
1:b3:438:ALA:HB1	1:b3:441:ALA:HB3	1.78	0.65
1:b4:334:MET:SD	1:b4:334:MET:N	2.69	0.65
2:C1:104:PRO:HA	2:C1:107:ARG:HG2	1.78	0.65
2:D1:54:VAL:HG11	2:D1:59:SER:HA	1.77	0.65
2:F3:270:ASN:HB3	2:F3:340:LEU:HB2	1.77	0.65
2:A4:334:GLU:OE2	2:G4:263:LYS:HE3	1.95	0.65
2:F4:104:PRO:HA	2:F4:107:ARG:HG2	1.78	0.65
1:b2:144:MET:HE3	1:b2:151:LEU:HA	1.79	0.65
1:b3:215:MET:HG2	1:B4:187:ARG:NH1	2.11	0.65
2:G1:54:VAL:HG11	2:G1:59:SER:HA	1.77	0.65
2:G1:104:PRO:HA	2:G1:107:ARG:HG2	1.78	0.65
2:D1:194:VAL:H	2:E1:263:LYS:HZ1	1.43	0.65
2:F2:219:ASP:N	2:F2:244:MET:O	2.27	0.65
2:G3:104:PRO:HA	2:G3:107:ARG:HG2	1.78	0.65
2:A4:54:VAL:HG11	2:A4:59:SER:HA	1.77	0.65
1:B:179:ASN:OD1	1:B:192:GLY:N	2.27	0.65
1:b2:438:ALA:HB1	1:b2:441:ALA:HB3	1.78	0.65
1:B4:265:GLN:HE21	1:b4:259:LYS:HZ2	1.43	0.65
1:B4:438:ALA:HB1	1:B4:441:ALA:HB3	1.78	0.65
1:b4:368:VAL:HG12	1:b4:396:PHE:HZ	1.60	0.65
1:b4:375:ARG:HD2	1:B5:369:SER:HB2	1.79	0.65
1:b5:438:ALA:HB1	1:b5:441:ALA:HB3	1.78	0.65
2:G1:270:ASN:HB3	2:G1:340:LEU:HB2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E1:47:LEU:HD11	2:F1:258:VAL:HG11	1.78	0.65
2:C2:217:LYS:O	2:D2:221:ARG:NH2	2.28	0.65
2:E2:77:TYR:HD2	2:E2:324:ALA:HB2	1.62	0.65
2:F2:77:TYR:HD2	2:F2:324:ALA:HB2	1.62	0.65
2:A3:77:TYR:HD2	2:A3:324:ALA:HB2	1.62	0.65
2:D3:54:VAL:HG11	2:D3:59:SER:HA	1.77	0.65
2:C4:217:LYS:O	2:D4:221:ARG:NH2	2.28	0.65
1:B1:368:VAL:HG12	1:B1:396:PHE:HZ	1.60	0.64
1:B1:438:ALA:HB1	1:B1:441:ALA:HB3	1.78	0.64
1:B2:144:MET:HE3	1:B2:151:LEU:HA	1.79	0.64
1:b3:334:MET:N	1:b3:334:MET:SD	2.69	0.64
2:C0:77:TYR:HD2	2:C0:324:ALA:HB2	1.62	0.64
2:E0:310:THR:HG21	2:E0:314:PRO:HG2	1.77	0.64
2:F0:77:TYR:HD2	2:F0:324:ALA:HB2	1.62	0.64
2:E1:77:TYR:HD2	2:E1:324:ALA:HB2	1.62	0.64
2:A2:77:TYR:HD2	2:A2:324:ALA:HB2	1.62	0.64
2:A3:334:GLU:OE2	2:G3:263:LYS:HE3	1.95	0.64
2:C3:217:LYS:O	2:D3:221:ARG:NH2	2.28	0.64
2:G4:270:ASN:HB3	2:G4:340:LEU:HB2	1.77	0.64
2:D4:104:PRO:HA	2:D4:107:ARG:HG2	1.78	0.64
2:E4:47:LEU:HD11	2:F4:258:VAL:HG11	1.78	0.64
1:B5:438:ALA:HB1	1:B5:441:ALA:HB3	1.78	0.64
2:D1:276:ASN:HB2	2:E1:263:LYS:HZ3	1.63	0.64
2:D3:104:PRO:HA	2:D3:107:ARG:HG2	1.78	0.64
1:B1:144:MET:HE3	1:B1:151:LEU:HA	1.79	0.64
1:b1:144:MET:HE3	1:b1:151:LEU:HA	1.79	0.64
1:b1:215:MET:HG2	1:B2:187:ARG:NH1	2.13	0.64
1:b1:334:MET:SD	1:b1:334:MET:N	2.69	0.64
1:B2:438:ALA:HB1	1:B2:441:ALA:HB3	1.78	0.64
1:B4:259:LYS:HZ2	1:B4:260:MET:HE3	1.62	0.64
1:B5:334:MET:N	1:B5:334:MET:SD	2.69	0.64
2:D0:64:ARG:HH12	2:E0:316:ARG:NE	1.88	0.64
2:G3:50:MET:CE	2:C3:125:GLN:HG2	2.21	0.64
1:b:368:VAL:HG12	1:b:396:PHE:HZ	1.60	0.64
1:b:459:LYS:HA	1:b:459:LYS:HE3	1.80	0.64
1:B1:369:SER:OG	1:B1:372:GLN:OE1	2.16	0.64
1:b1:369:SER:OG	1:b1:372:GLN:OE1	2.16	0.64
1:b5:368:VAL:HG12	1:b5:396:PHE:HZ	1.60	0.64
2:A1:104:PRO:HA	2:A1:107:ARG:HG2	1.78	0.64
2:G2:104:PRO:HA	2:G2:107:ARG:HG2	1.78	0.64
2:A4:77:TYR:HD2	2:A4:324:ALA:HB2	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F4:77:TYR:HD2	2:F4:324:ALA:HB2	1.62	0.64
1:b:215:MET:HG2	1:B1:187:ARG:NH1	2.12	0.64
1:b:254:VAL:HA	1:b:257:GLN:OE1	1.98	0.64
1:b5:179:ASN:OD1	1:b5:192:GLY:N	2.27	0.64
2:C3:77:TYR:HD2	2:C3:324:ALA:HB2	1.62	0.64
2:C3:270:ASN:HB3	2:C3:340:LEU:HB2	1.77	0.64
2:A4:219:ASP:N	2:A4:244:MET:O	2.28	0.64
1:B2:459:LYS:HA	1:B2:459:LYS:HE3	1.80	0.64
1:b2:459:LYS:HA	1:b2:459:LYS:HE3	1.80	0.64
2:G0:199:VAL:HA	2:G0:251:VAL:O	1.98	0.64
2:D0:194:VAL:N	2:E0:263:LYS:HZ1	1.96	0.64
2:D1:199:VAL:HA	2:D1:251:VAL:O	1.98	0.64
2:C2:199:VAL:HA	2:C2:251:VAL:O	1.98	0.64
2:D2:276:ASN:HD22	2:E2:263:LYS:CE	2.09	0.64
2:E3:77:TYR:HD2	2:E3:324:ALA:HB2	1.62	0.64
2:C4:199:VAL:HA	2:C4:251:VAL:O	1.98	0.64
1:B1:459:LYS:HA	1:B1:459:LYS:HE3	1.80	0.64
2:D0:28:PHE:O	2:D0:283:ARG:NH1	2.31	0.64
2:F0:104:PRO:HA	2:F0:107:ARG:HG2	1.78	0.64
2:A1:28:PHE:O	2:A1:283:ARG:NH1	2.31	0.64
2:G1:28:PHE:O	2:G1:283:ARG:NH1	2.31	0.64
2:D1:28:PHE:O	2:D1:283:ARG:NH1	2.31	0.64
2:F1:77:TYR:HD2	2:F1:324:ALA:HB2	1.62	0.64
2:C2:28:PHE:O	2:C2:283:ARG:NH1	2.31	0.64
2:D2:77:TYR:HD2	2:D2:324:ALA:HB2	1.62	0.64
2:D2:199:VAL:HA	2:D2:251:VAL:O	1.98	0.64
2:E2:199:VAL:HA	2:E2:251:VAL:O	1.98	0.64
2:A3:199:VAL:HA	2:A3:251:VAL:O	1.98	0.64
2:A4:199:VAL:HA	2:A4:251:VAL:O	1.98	0.64
1:B:254:VAL:HA	1:B:257:GLN:OE1	1.98	0.64
1:b1:438:ALA:HB1	1:b1:441:ALA:HB3	1.78	0.64
1:B5:179:ASN:OD1	1:B5:192:GLY:N	2.27	0.64
2:C1:199:VAL:HA	2:C1:251:VAL:O	1.98	0.64
2:G2:77:TYR:HD2	2:G2:324:ALA:HB2	1.62	0.64
2:A3:28:PHE:O	2:A3:283:ARG:NH1	2.31	0.64
2:A3:274:LEU:O	2:A3:335:PHE:HA	1.98	0.64
2:G3:28:PHE:O	2:G3:283:ARG:NH1	2.31	0.64
2:E3:47:LEU:HD11	2:F3:258:VAL:HG11	1.78	0.64
2:F4:28:PHE:O	2:F4:283:ARG:NH1	2.31	0.64
1:B:259:LYS:HZ2	1:B:260:MET:HE3	1.63	0.64
1:B1:254:VAL:HA	1:B1:257:GLN:OE1	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B3:215:MET:HG2	1:b3:187:ARG:NH1	2.13	0.64
1:B3:369:SER:OG	1:B3:372:GLN:OE1	2.16	0.64
1:b4:438:ALA:HB1	1:b4:441:ALA:HB3	1.78	0.64
2:C0:28:PHE:O	2:C0:283:ARG:NH1	2.31	0.64
2:D0:276:ASN:HD22	2:E0:263:LYS:CE	2.10	0.64
2:A1:274:LEU:O	2:A1:335:PHE:HA	1.98	0.64
2:C1:28:PHE:O	2:C1:283:ARG:NH1	2.31	0.64
2:D1:219:ASP:N	2:D1:244:MET:O	2.28	0.64
2:C2:274:LEU:O	2:C2:335:PHE:HA	1.98	0.64
2:E2:28:PHE:O	2:E2:283:ARG:NH1	2.31	0.64
2:F3:28:PHE:O	2:F3:283:ARG:NH1	2.31	0.64
2:C4:77:TYR:HD2	2:C4:324:ALA:HB2	1.62	0.64
2:D4:77:TYR:HD2	2:D4:324:ALA:HB2	1.62	0.64
2:D4:274:LEU:O	2:D4:335:PHE:HA	1.98	0.64
2:D4:276:ASN:HD22	2:E4:263:LYS:CE	2.10	0.64
1:B1:215:MET:HG2	1:b1:187:ARG:NH1	2.13	0.64
1:B2:325:LEU:HD23	1:B2:330:VAL:HG22	1.79	0.64
1:b2:369:SER:OG	1:b2:372:GLN:OE1	2.16	0.64
1:B3:334:MET:N	1:B3:334:MET:SD	2.69	0.64
1:b3:254:VAL:HA	1:b3:257:GLN:OE1	1.98	0.64
1:b5:254:VAL:HA	1:b5:257:GLN:OE1	1.98	0.64
2:D0:276:ASN:HB2	2:E0:263:LYS:HZ3	1.63	0.64
2:E0:77:TYR:HD2	2:E0:324:ALA:HB2	1.62	0.64
2:F1:274:LEU:O	2:F1:335:PHE:HA	1.98	0.64
2:C3:28:PHE:O	2:C3:283:ARG:NH1	2.31	0.64
2:G4:274:LEU:O	2:G4:335:PHE:HA	1.98	0.64
2:C4:28:PHE:O	2:C4:283:ARG:NH1	2.31	0.64
1:b:408:ALA:HB1	1:b:447:TRP:CE2	2.33	0.63
1:b1:325:LEU:HD23	1:b1:330:VAL:HG22	1.79	0.63
1:B3:254:VAL:HA	1:B3:257:GLN:OE1	1.98	0.63
2:A0:194:VAL:H	2:G0:263:LYS:NZ	1.96	0.63
2:C0:274:LEU:O	2:C0:335:PHE:HA	1.98	0.63
2:E0:274:LEU:O	2:E0:335:PHE:HA	1.98	0.63
2:E1:28:PHE:O	2:E1:283:ARG:NH1	2.31	0.63
2:A2:274:LEU:O	2:A2:335:PHE:HA	1.98	0.63
2:G2:199:VAL:HA	2:G2:251:VAL:O	1.98	0.63
2:D2:276:ASN:ND2	2:E2:263:LYS:HZ3	1.96	0.63
2:D3:199:VAL:HA	2:D3:251:VAL:O	1.98	0.63
2:A4:28:PHE:O	2:A4:283:ARG:NH1	2.31	0.63
2:C4:274:LEU:O	2:C4:335:PHE:HA	1.98	0.63
1:B1:334:MET:SD	1:B1:334:MET:N	2.69	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B2:375:ARG:HD2	1:b2:369:SER:HB2	1.80	0.63
1:b3:259:LYS:HZ2	1:b3:260:MET:HE3	1.63	0.63
1:b5:334:MET:N	1:b5:334:MET:SD	2.69	0.63
2:A0:28:PHE:O	2:A0:283:ARG:NH1	2.31	0.63
2:A0:199:VAL:HA	2:A0:251:VAL:O	1.98	0.63
2:A1:199:VAL:HA	2:A1:251:VAL:O	1.98	0.63
2:D1:276:ASN:HD22	2:E1:263:LYS:CE	2.10	0.63
2:F1:28:PHE:O	2:F1:283:ARG:NH1	2.31	0.63
2:D2:28:PHE:O	2:D2:283:ARG:NH1	2.31	0.63
2:F2:28:PHE:O	2:F2:283:ARG:NH1	2.31	0.63
2:C3:199:VAL:HA	2:C3:251:VAL:O	1.98	0.63
2:D3:28:PHE:O	2:D3:283:ARG:NH1	2.31	0.63
2:D3:276:ASN:HD22	2:E3:263:LYS:CE	2.10	0.63
2:E3:199:VAL:HA	2:E3:251:VAL:O	1.98	0.63
2:F3:104:PRO:HA	2:F3:107:ARG:HG2	1.78	0.63
2:A4:194:VAL:H	2:G4:263:LYS:NZ	1.96	0.63
2:E4:28:PHE:O	2:E4:283:ARG:NH1	2.31	0.63
1:B1:408:ALA:HB1	1:B1:447:TRP:CE2	2.34	0.63
1:B4:375:ARG:HD2	1:b4:369:SER:HB2	1.81	0.63
1:b4:369:SER:OG	1:b4:372:GLN:OE1	2.16	0.63
1:B5:215:MET:HG2	1:b5:187:ARG:NH1	2.13	0.63
1:B5:375:ARG:HD2	1:b5:369:SER:HB2	1.80	0.63
1:B5:408:ALA:HB1	1:B5:447:TRP:CE2	2.33	0.63
1:B5:459:LYS:HA	1:B5:459:LYS:HE3	1.80	0.63
2:D0:274:LEU:O	2:D0:335:PHE:HA	1.98	0.63
2:F0:199:VAL:HA	2:F0:251:VAL:O	1.98	0.63
2:A1:121:LEU:HD12	2:F1:50:MET:SD	2.38	0.63
2:A1:194:VAL:H	2:G1:263:LYS:NZ	1.97	0.63
2:G1:199:VAL:HA	2:G1:251:VAL:O	1.98	0.63
2:E1:199:VAL:HA	2:E1:251:VAL:O	1.98	0.63
2:F1:199:VAL:HA	2:F1:251:VAL:O	1.98	0.63
2:D2:274:LEU:O	2:D2:335:PHE:HA	1.98	0.63
2:C3:219:ASP:N	2:C3:244:MET:O	2.28	0.63
2:E4:56:PRO:HA	2:F4:79:LYS:HE3	1.80	0.63
2:F4:274:LEU:O	2:F4:335:PHE:HA	1.98	0.63
1:B:408:ALA:HB1	1:B:447:TRP:CE2	2.33	0.63
1:b1:408:ALA:HB1	1:b1:447:TRP:CE2	2.33	0.63
1:b4:325:LEU:HD23	1:b4:330:VAL:HG22	1.79	0.63
1:b5:459:LYS:HA	1:b5:459:LYS:HE3	1.80	0.63
2:D0:194:VAL:H	2:E0:263:LYS:HZ1	1.45	0.63
2:C1:274:LEU:O	2:C1:335:PHE:HA	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:199:VAL:HA	2:A2:251:VAL:O	1.98	0.63
2:A3:121:LEU:HD12	2:F3:50:MET:SD	2.38	0.63
2:E3:274:LEU:O	2:E3:335:PHE:HA	1.98	0.63
2:D4:199:VAL:HA	2:D4:251:VAL:O	1.98	0.63
1:B:369:SER:HB2	1:b5:375:ARG:HD2	1.81	0.63
1:B1:325:LEU:HD23	1:B1:330:VAL:HG22	1.79	0.63
1:b1:163:ARG:O	1:b1:166:ARG:NH2	2.31	0.63
1:B2:369:SER:OG	1:B2:372:GLN:OE1	2.16	0.63
1:b2:325:LEU:HD23	1:b2:330:VAL:HG22	1.79	0.63
1:B4:325:LEU:HD23	1:B4:330:VAL:HG22	1.79	0.63
2:G0:28:PHE:O	2:G0:283:ARG:NH1	2.31	0.63
2:E0:28:PHE:O	2:E0:283:ARG:NH1	2.31	0.63
2:E0:199:VAL:HA	2:E0:251:VAL:O	1.98	0.63
2:E2:274:LEU:O	2:E2:335:PHE:HA	1.98	0.63
2:F2:274:LEU:O	2:F2:335:PHE:HA	1.98	0.63
2:E3:28:PHE:O	2:E3:283:ARG:NH1	2.31	0.63
2:E4:199:VAL:HA	2:E4:251:VAL:O	1.98	0.63
1:B2:163:ARG:O	1:B2:166:ARG:NH2	2.31	0.63
1:b3:459:LYS:HA	1:b3:459:LYS:HE3	1.80	0.63
1:B4:254:VAL:HA	1:B4:257:GLN:OE1	1.98	0.63
1:b5:369:SER:OG	1:b5:372:GLN:OE1	2.16	0.63
1:b5:408:ALA:HB1	1:b5:447:TRP:CE2	2.33	0.63
2:E2:198:ILE:HA	2:E2:272:MET:HE1	1.81	0.63
2:C3:274:LEU:O	2:C3:335:PHE:HA	1.98	0.63
2:E3:56:PRO:HA	2:F3:79:LYS:HE3	1.80	0.63
2:E4:77:TYR:HD2	2:E4:324:ALA:HB2	1.62	0.63
1:B:334:MET:SD	1:B:334:MET:N	2.69	0.63
1:B:369:SER:OG	1:B:372:GLN:OE1	2.16	0.63
1:b:369:SER:OG	1:b:372:GLN:OE1	2.16	0.63
1:B1:163:ARG:O	1:B1:166:ARG:NH2	2.31	0.63
1:b4:254:VAL:HA	1:b4:257:GLN:OE1	1.98	0.63
1:b4:408:ALA:HB1	1:b4:447:TRP:CE2	2.33	0.63
2:G0:274:LEU:O	2:G0:335:PHE:HA	1.98	0.63
2:G1:114:GLN:NE2	2:G1:118:ASP:OD2	2.32	0.63
2:E1:274:LEU:O	2:E1:335:PHE:HA	1.98	0.63
2:A2:121:LEU:HD12	2:F2:50:MET:SD	2.38	0.63
2:A3:114:GLN:NE2	2:A3:118:ASP:OD2	2.32	0.63
2:G3:274:LEU:O	2:G3:335:PHE:HA	1.98	0.63
2:D3:114:GLN:NE2	2:D3:118:ASP:OD2	2.32	0.63
1:B:459:LYS:HA	1:B:459:LYS:HE3	1.80	0.63
1:b:334:MET:N	1:b:334:MET:SD	2.69	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:375:ARG:HD2	1:b1:369:SER:HB2	1.80	0.63
1:B2:408:ALA:HB1	1:B2:447:TRP:CE2	2.34	0.63
1:b3:325:LEU:HD23	1:b3:330:VAL:HG22	1.79	0.63
1:b3:369:SER:OG	1:b3:372:GLN:OE1	2.16	0.63
1:B4:459:LYS:HA	1:B4:459:LYS:HE3	1.80	0.63
2:C0:199:VAL:HA	2:C0:251:VAL:O	1.98	0.63
2:D0:114:GLN:NE2	2:D0:118:ASP:OD2	2.32	0.63
2:E0:56:PRO:HA	2:F0:79:LYS:HE3	1.80	0.63
2:E1:114:GLN:NE2	2:E1:118:ASP:OD2	2.32	0.63
2:A2:194:VAL:N	2:G2:263:LYS:HZ1	1.97	0.63
2:G2:198:ILE:HA	2:G2:272:MET:HE1	1.81	0.63
2:C2:114:GLN:NE2	2:C2:118:ASP:OD2	2.32	0.63
2:F2:114:GLN:NE2	2:F2:118:ASP:OD2	2.32	0.63
2:G3:114:GLN:NE2	2:G3:118:ASP:OD2	2.32	0.63
2:G3:196:ASN:HD21	2:G3:277:THR:HG22	1.64	0.63
2:C3:114:GLN:NE2	2:C3:118:ASP:OD2	2.32	0.63
2:E3:198:ILE:HA	2:E3:272:MET:HE1	1.81	0.63
2:D4:28:PHE:O	2:D4:283:ARG:NH1	2.31	0.63
2:F4:199:VAL:HA	2:F4:251:VAL:O	1.98	0.63
1:b:325:LEU:HD23	1:b:330:VAL:HG22	1.79	0.63
1:B2:151:LEU:HD21	1:B2:407:GLN:NE2	2.14	0.63
1:B2:254:VAL:HA	1:B2:257:GLN:OE1	1.98	0.63
2:A0:114:GLN:NE2	2:A0:118:ASP:OD2	2.32	0.63
2:A0:121:LEU:HD12	2:F0:50:MET:SD	2.38	0.63
2:C0:217:LYS:O	2:D0:221:ARG:NH2	2.28	0.63
2:F0:28:PHE:O	2:F0:283:ARG:NH1	2.31	0.63
2:F1:114:GLN:NE2	2:F1:118:ASP:OD2	2.32	0.63
2:A2:114:GLN:NE2	2:A2:118:ASP:OD2	2.32	0.63
2:A2:196:ASN:HD21	2:A2:277:THR:HG22	1.64	0.63
2:D2:276:ASN:HD22	2:E2:263:LYS:HZ3	1.46	0.63
2:A3:198:ILE:HA	2:A3:272:MET:HE1	1.81	0.63
2:G3:199:VAL:HA	2:G3:251:VAL:O	1.98	0.63
2:D3:274:LEU:O	2:D3:335:PHE:HA	1.98	0.63
2:E3:196:ASN:HD21	2:E3:277:THR:HG22	1.64	0.63
2:A4:274:LEU:O	2:A4:335:PHE:HA	1.98	0.63
2:G4:28:PHE:O	2:G4:283:ARG:NH1	2.31	0.63
1:B:325:LEU:HD23	1:B:330:VAL:HG22	1.79	0.62
1:B1:62:ASP:OD1	1:B1:66:ASN:ND2	2.32	0.62
1:B2:215:MET:HG2	1:b2:187:ARG:NH1	2.13	0.62
1:b2:151:LEU:HD21	1:b2:407:GLN:NE2	2.14	0.62
1:b2:374:SER:O	1:b2:375:ARG:HG2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:151:LEU:HD21	1:B5:407:GLN:NE2	2.14	0.62
2:D0:199:VAL:HA	2:D0:251:VAL:O	1.98	0.62
2:A1:77:TYR:HD2	2:A1:324:ALA:HB2	1.62	0.62
2:G1:196:ASN:HD21	2:G1:277:THR:HG22	1.64	0.62
2:C1:196:ASN:HD21	2:C1:277:THR:HG22	1.64	0.62
2:C1:217:LYS:O	2:D1:221:ARG:NH2	2.28	0.62
2:E1:198:ILE:HA	2:E1:272:MET:HE1	1.81	0.62
2:A2:28:PHE:O	2:A2:283:ARG:NH1	2.31	0.62
2:G2:28:PHE:O	2:G2:283:ARG:NH1	2.31	0.62
2:E2:114:GLN:NE2	2:E2:118:ASP:OD2	2.32	0.62
2:D3:77:TYR:HD2	2:D3:324:ALA:HB2	1.62	0.62
2:F3:199:VAL:HA	2:F3:251:VAL:O	1.98	0.62
2:G4:77:TYR:HD2	2:G4:324:ALA:HB2	1.62	0.62
2:D4:196:ASN:HD21	2:D4:277:THR:HG22	1.64	0.62
2:F4:114:GLN:NE2	2:F4:118:ASP:OD2	2.32	0.62
1:B1:160:SER:O	1:B1:166:ARG:NH2	2.32	0.62
1:b1:62:ASP:OD1	1:b1:66:ASN:ND2	2.33	0.62
1:b1:459:LYS:HA	1:b1:459:LYS:HE3	1.80	0.62
1:b2:160:SER:O	1:b2:166:ARG:NH2	2.32	0.62
1:b2:254:VAL:HA	1:b2:257:GLN:OE1	1.97	0.62
1:B4:151:LEU:HD21	1:B4:407:GLN:NE2	2.14	0.62
1:B4:369:SER:OG	1:B4:372:GLN:OE1	2.16	0.62
1:B4:374:SER:O	1:B4:375:ARG:HG2	2.00	0.62
1:b4:145:HIS:HB2	1:b4:151:LEU:HD23	1.81	0.62
1:B5:160:SER:O	1:B5:166:ARG:NH2	2.32	0.62
1:B5:325:LEU:HD23	1:B5:330:VAL:HG22	1.79	0.62
2:A0:219:ASP:HB3	2:A0:244:MET:HB2	1.82	0.62
2:A0:274:LEU:O	2:A0:335:PHE:HA	1.98	0.62
2:G0:77:TYR:HD2	2:G0:324:ALA:HB2	1.62	0.62
2:D0:198:ILE:HA	2:D0:272:MET:HE1	1.81	0.62
2:F0:274:LEU:O	2:F0:335:PHE:HA	1.98	0.62
2:F1:198:ILE:HA	2:F1:272:MET:HE1	1.81	0.62
2:F1:235:LEU:HA	2:F1:237:LYS:HZ3	1.64	0.62
2:A4:114:GLN:NE2	2:A4:118:ASP:OD2	2.32	0.62
2:G4:196:ASN:HD21	2:G4:277:THR:HG22	1.64	0.62
2:D4:114:GLN:NE2	2:D4:118:ASP:OD2	2.32	0.62
1:b2:163:ARG:O	1:b2:166:ARG:NH2	2.31	0.62
1:b2:408:ALA:HB1	1:b2:447:TRP:CE2	2.34	0.62
1:B3:325:LEU:HD23	1:B3:330:VAL:HG22	1.79	0.62
1:b4:62:ASP:OD1	1:b4:66:ASN:ND2	2.32	0.62
1:B5:145:HIS:HB2	1:B5:151:LEU:HD23	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:259:LYS:HZ2	1:B5:260:MET:HE3	1.65	0.62
1:B5:369:SER:OG	1:B5:372:GLN:OE1	2.15	0.62
2:E0:198:ILE:HA	2:E0:272:MET:HE1	1.81	0.62
2:G1:198:ILE:HA	2:G1:272:MET:HE1	1.81	0.62
2:E1:196:ASN:HD21	2:E1:277:THR:HG22	1.64	0.62
2:E1:219:ASP:HB3	2:E1:244:MET:HB2	1.82	0.62
2:A2:194:VAL:H	2:G2:263:LYS:NZ	1.97	0.62
2:G2:114:GLN:NE2	2:G2:118:ASP:OD2	2.32	0.62
2:G3:77:TYR:HD2	2:G3:324:ALA:HB2	1.62	0.62
2:E4:198:ILE:HA	2:E4:272:MET:HE1	1.81	0.62
1:B:215:MET:HG2	1:b:187:ARG:NH1	2.14	0.62
1:b:62:ASP:OD1	1:b:66:ASN:ND2	2.32	0.62
1:b1:151:LEU:HD21	1:b1:407:GLN:NE2	2.14	0.62
1:b1:254:VAL:HA	1:b1:257:GLN:OE1	1.98	0.62
1:b3:375:ARG:HD2	1:B4:369:SER:HB2	1.82	0.62
1:B4:145:HIS:HB2	1:B4:151:LEU:HD23	1.81	0.62
1:B5:62:ASP:OD1	1:B5:66:ASN:ND2	2.32	0.62
1:b5:160:SER:O	1:b5:166:ARG:NH2	2.33	0.62
2:C0:114:GLN:NE2	2:C0:118:ASP:OD2	2.32	0.62
2:C0:217:LYS:HE2	2:D0:220:THR:HG21	1.81	0.62
2:E0:79:LYS:HB2	2:E0:320:MET:HE3	1.82	0.62
2:A1:114:GLN:NE2	2:A1:118:ASP:OD2	2.32	0.62
2:A1:219:ASP:HB3	2:A1:244:MET:HB2	1.82	0.62
2:C1:198:ILE:HA	2:C1:272:MET:HE1	1.81	0.62
2:D1:114:GLN:NE2	2:D1:118:ASP:OD2	2.32	0.62
2:D1:274:LEU:O	2:D1:335:PHE:HA	1.98	0.62
2:A2:198:ILE:HA	2:A2:272:MET:HE1	1.81	0.62
2:D2:196:ASN:HD21	2:D2:277:THR:HG22	1.64	0.62
2:G3:198:ILE:HA	2:G3:272:MET:HE1	1.81	0.62
2:A4:121:LEU:HD12	2:F4:50:MET:SD	2.38	0.62
2:A4:219:ASP:HB3	2:A4:244:MET:HB2	1.82	0.62
1:b:163:ARG:O	1:b:166:ARG:NH2	2.32	0.62
1:B1:151:LEU:HD21	1:B1:407:GLN:NE2	2.14	0.62
1:b1:375:ARG:HD2	1:B2:369:SER:HB2	1.81	0.62
1:B3:151:LEU:HD21	1:B3:407:GLN:NE2	2.14	0.62
1:b4:374:SER:O	1:b4:375:ARG:HG2	1.99	0.62
1:B5:254:VAL:HA	1:B5:257:GLN:OE1	1.98	0.62
2:E0:114:GLN:NE2	2:E0:118:ASP:OD2	2.32	0.62
2:F0:114:GLN:NE2	2:F0:118:ASP:OD2	2.32	0.62
2:G1:274:LEU:O	2:G1:335:PHE:HA	1.98	0.62
2:C3:196:ASN:HD21	2:C3:277:THR:HG22	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:160:SER:O	1:B:166:ARG:NH2	2.32	0.62
1:b:505:LEU:HG	1:B1:493:GLN:HG2	1.81	0.62
1:b1:160:SER:O	1:b1:166:ARG:NH2	2.32	0.62
1:B2:62:ASP:OD1	1:B2:66:ASN:ND2	2.32	0.62
1:B2:160:SER:O	1:B2:166:ARG:NH2	2.32	0.62
1:B2:374:SER:O	1:B2:375:ARG:HG2	1.99	0.62
1:B3:408:ALA:HB1	1:B3:447:TRP:CE2	2.33	0.62
1:B3:459:LYS:HA	1:B3:459:LYS:HE3	1.80	0.62
1:b3:145:HIS:HB2	1:b3:151:LEU:HD23	1.81	0.62
1:B4:62:ASP:OD1	1:B4:66:ASN:ND2	2.32	0.62
1:B4:375:ARG:O	1:B4:375:ARG:HG3	2.00	0.62
1:B4:408:ALA:HB1	1:B4:447:TRP:CE2	2.33	0.62
1:b4:151:LEU:HD21	1:b4:407:GLN:NE2	2.14	0.62
1:b5:375:ARG:HG3	1:b5:375:ARG:O	2.00	0.62
2:A0:196:ASN:HD21	2:A0:277:THR:HG22	1.64	0.62
2:G0:114:GLN:NE2	2:G0:118:ASP:OD2	2.32	0.62
2:C0:196:ASN:HD21	2:C0:277:THR:HG22	1.64	0.62
2:G1:77:TYR:HD2	2:G1:324:ALA:HB2	1.62	0.62
2:E2:219:ASP:HB3	2:E2:244:MET:HB2	1.82	0.62
2:A3:79:LYS:HB2	2:A3:320:MET:HE3	1.82	0.62
2:C3:217:LYS:HE2	2:D3:220:THR:HG21	1.81	0.62
2:C3:246:GLY:O	2:D3:222:ARG:NH1	2.30	0.62
2:E3:219:ASP:HB3	2:E3:244:MET:HB2	1.82	0.62
2:A4:196:ASN:HD21	2:A4:277:THR:HG22	1.64	0.62
2:G4:199:VAL:HA	2:G4:251:VAL:O	1.98	0.62
2:E4:274:LEU:O	2:E4:335:PHE:HA	1.98	0.62
1:B:374:SER:O	1:B:375:ARG:HG2	1.99	0.62
1:B3:374:SER:O	1:B3:375:ARG:HG2	1.99	0.62
1:b4:160:SER:O	1:b4:166:ARG:NH2	2.32	0.62
1:b5:62:ASP:OD1	1:b5:66:ASN:ND2	2.32	0.62
1:b5:244:GLN:NE2	1:b5:246:ARG:O	2.33	0.62
2:G0:198:ILE:HA	2:G0:272:MET:HE1	1.81	0.62
2:C1:217:LYS:HE2	2:D1:220:THR:HG21	1.81	0.62
2:F1:196:ASN:HD21	2:F1:277:THR:HG22	1.64	0.62
2:A2:219:ASP:HB3	2:A2:244:MET:HB2	1.82	0.62
2:C2:79:LYS:HB2	2:C2:320:MET:HE3	1.82	0.62
2:A3:219:ASP:HB3	2:A3:244:MET:HB2	1.82	0.62
2:C4:198:ILE:HA	2:C4:272:MET:HE1	1.81	0.62
1:B:78:GLN:HE22	1:B:139:ARG:HA	1.65	0.62
1:B:190:ARG:NH1	1:b5:211:TYR:O	2.32	0.62
1:b:374:SER:O	1:b:375:ARG:HG2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:259:LYS:NZ	1:B1:260:MET:HE3	2.15	0.62
1:b2:497:THR:HG23	1:b2:507:PRO:HB3	1.82	0.62
1:b3:375:ARG:HG3	1:b3:375:ARG:O	2.00	0.62
1:b3:408:ALA:HB1	1:b3:447:TRP:CE2	2.33	0.62
1:b4:497:THR:HG23	1:b4:507:PRO:HB3	1.82	0.62
1:b5:74:ILE:HD11	1:b5:143:ALA:HA	1.82	0.62
1:b5:145:HIS:HB2	1:b5:151:LEU:HD23	1.81	0.62
1:b5:325:LEU:HD23	1:b5:330:VAL:HG22	1.79	0.62
2:A0:79:LYS:HB2	2:A0:320:MET:HE3	1.82	0.62
2:G0:196:ASN:HD21	2:G0:277:THR:HG22	1.64	0.62
2:C2:196:ASN:HD21	2:C2:277:THR:HG22	1.64	0.62
2:E2:79:LYS:HB2	2:E2:320:MET:HE3	1.82	0.62
2:F2:199:VAL:HA	2:F2:251:VAL:O	1.98	0.62
2:C3:219:ASP:HB3	2:C3:244:MET:HB2	1.82	0.62
2:D3:198:ILE:HA	2:D3:272:MET:HE1	1.81	0.62
2:F3:114:GLN:NE2	2:F3:118:ASP:OD2	2.32	0.62
2:F3:274:LEU:O	2:F3:335:PHE:HA	1.98	0.62
2:G4:114:GLN:NE2	2:G4:118:ASP:OD2	2.32	0.62
1:B:163:ARG:O	1:B:166:ARG:NH2	2.31	0.62
1:B:375:ARG:HG3	1:B:375:ARG:O	2.00	0.62
1:b:78:GLN:HE22	1:b:139:ARG:HA	1.65	0.62
1:B1:374:SER:O	1:B1:375:ARG:HG2	1.99	0.62
1:B1:497:THR:HG23	1:B1:507:PRO:HB3	1.82	0.62
1:B3:163:ARG:O	1:B3:166:ARG:NH2	2.31	0.62
1:b3:160:SER:O	1:b3:166:ARG:NH2	2.32	0.62
1:B4:497:THR:HG23	1:B4:507:PRO:HB3	1.82	0.62
2:G1:53:TYR:HB2	2:C1:78:VAL:HG13	1.82	0.62
2:G2:274:LEU:O	2:G2:335:PHE:HA	1.98	0.62
2:F2:79:LYS:HB2	2:F2:320:MET:HE3	1.82	0.62
2:A3:196:ASN:HD21	2:A3:277:THR:HG22	1.64	0.62
2:F3:198:ILE:HA	2:F3:272:MET:HE1	1.81	0.62
2:A4:79:LYS:HB2	2:A4:320:MET:HE3	1.82	0.62
1:B:62:ASP:OD1	1:B:66:ASN:ND2	2.32	0.62
1:B:74:ILE:HD11	1:B:143:ALA:HA	1.82	0.62
1:B:259:LYS:NZ	1:B:260:MET:HE3	2.15	0.62
1:B1:505:LEU:HG	1:b1:493:GLN:HG2	1.82	0.62
1:b3:374:SER:O	1:b3:375:ARG:HG2	2.00	0.62
1:B5:244:GLN:NE2	1:B5:246:ARG:O	2.33	0.62
1:b5:78:GLN:HE22	1:b5:139:ARG:HA	1.65	0.62
1:b5:151:LEU:HD21	1:b5:407:GLN:NE2	2.14	0.62
1:b5:374:SER:O	1:b5:375:ARG:HG2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:198:ILE:HA	2:A0:272:MET:HE1	1.81	0.62
2:G0:156:ARG:NH1	2:G0:335:PHE:O	2.33	0.62
2:E0:219:ASP:HB3	2:E0:244:MET:HB2	1.82	0.62
2:F0:219:ASP:HB3	2:F0:244:MET:HB2	1.82	0.62
2:A1:196:ASN:HD21	2:A1:277:THR:HG22	1.64	0.62
2:E1:56:PRO:HA	2:F1:79:LYS:HE3	1.80	0.62
2:D2:198:ILE:HA	2:D2:272:MET:HE1	1.81	0.62
2:E2:56:PRO:HA	2:F2:79:LYS:HE3	1.80	0.62
2:F2:196:ASN:HD21	2:F2:277:THR:HG22	1.64	0.62
2:G3:53:TYR:HB2	2:C3:78:VAL:HG13	1.82	0.62
2:C3:198:ILE:HA	2:C3:272:MET:HE1	1.81	0.62
2:E3:114:GLN:NE2	2:E3:118:ASP:OD2	2.32	0.62
2:G4:53:TYR:HB2	2:C4:78:VAL:HG13	1.82	0.62
1:B:151:LEU:HD21	1:B:407:GLN:NE2	2.14	0.61
1:b:74:ILE:HD11	1:b:143:ALA:HA	1.82	0.61
1:b1:497:THR:HG23	1:b1:507:PRO:HB3	1.82	0.61
1:B2:136:MET:HG3	1:B2:139:ARG:HD3	1.82	0.61
1:B3:145:HIS:HB2	1:B3:151:LEU:HD23	1.81	0.61
1:B3:497:THR:HG23	1:B3:507:PRO:HB3	1.82	0.61
1:b3:62:ASP:OD1	1:b3:66:ASN:ND2	2.32	0.61
2:G0:79:LYS:HB2	2:G0:320:MET:HE3	1.82	0.61
2:D1:156:ARG:NH1	2:D1:335:PHE:O	2.33	0.61
2:D1:198:ILE:HA	2:D1:272:MET:HE1	1.81	0.61
2:F1:219:ASP:HB3	2:F1:244:MET:HB2	1.82	0.61
2:F2:156:ARG:NH1	2:F2:335:PHE:O	2.33	0.61
2:C3:156:ARG:NH1	2:C3:335:PHE:O	2.33	0.61
2:D3:219:ASP:HB3	2:D3:244:MET:HB2	1.82	0.61
2:E3:156:ARG:NH1	2:E3:335:PHE:O	2.33	0.61
2:D4:194:VAL:N	2:E4:263:LYS:HZ1	1.98	0.61
2:D4:276:ASN:HB2	2:E4:263:LYS:HZ3	1.65	0.61
2:E4:196:ASN:HD21	2:E4:277:THR:HG22	1.64	0.61
2:E4:219:ASP:HB3	2:E4:244:MET:HB2	1.82	0.61
1:B:244:GLN:NE2	1:B:246:ARG:O	2.33	0.61
1:B:496:GLU:O	1:B:500:ARG:HG3	2.00	0.61
1:B1:259:LYS:HZ2	1:B1:260:MET:HE3	1.65	0.61
1:b1:76:LEU:HD11	1:b1:368:VAL:HG11	1.82	0.61
1:b2:62:ASP:OD1	1:b2:66:ASN:ND2	2.32	0.61
1:b3:151:LEU:HD21	1:b3:407:GLN:NE2	2.14	0.61
1:b4:459:LYS:HA	1:b4:459:LYS:HE3	1.80	0.61
1:B5:74:ILE:HD11	1:B5:143:ALA:HA	1.82	0.61
1:B5:78:GLN:HE22	1:B5:139:ARG:HA	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b5:497:THR:HG23	1:b5:507:PRO:HB3	1.82	0.61
2:F1:156:ARG:NH1	2:F1:335:PHE:O	2.33	0.61
2:C2:156:ARG:NH1	2:C2:335:PHE:O	2.33	0.61
2:D2:114:GLN:NE2	2:D2:118:ASP:OD2	2.32	0.61
2:C3:79:LYS:HB2	2:C3:320:MET:HE3	1.82	0.61
2:F3:79:LYS:HB2	2:F3:320:MET:HE3	1.82	0.61
2:A4:156:ARG:NH1	2:A4:335:PHE:O	2.33	0.61
2:D4:79:LYS:HB2	2:D4:320:MET:HE3	1.82	0.61
1:B:145:HIS:HB2	1:B:151:LEU:HD23	1.81	0.61
1:b:96:TYR:O	1:b:432:ARG:NH1	2.33	0.61
1:b:160:SER:O	1:b:166:ARG:NH2	2.32	0.61
1:b1:375:ARG:HG3	1:b1:375:ARG:O	2.00	0.61
1:B2:375:ARG:HG3	1:B2:375:ARG:O	2.00	0.61
2:D0:196:ASN:HD21	2:D0:277:THR:HG22	1.64	0.61
2:E0:196:ASN:HD21	2:E0:277:THR:HG22	1.64	0.61
2:C1:79:LYS:HB2	2:C1:320:MET:HE3	1.82	0.61
2:C1:114:GLN:NE2	2:C1:118:ASP:OD2	2.32	0.61
2:A2:156:ARG:NH1	2:A2:335:PHE:O	2.33	0.61
2:F2:198:ILE:HA	2:F2:272:MET:HE1	1.81	0.61
2:G3:156:ARG:NH1	2:G3:335:PHE:O	2.33	0.61
2:D3:196:ASN:HD21	2:D3:277:THR:HG22	1.64	0.61
2:G4:219:ASP:HB3	2:G4:244:MET:HB2	1.82	0.61
2:C4:196:ASN:HD21	2:C4:277:THR:HG22	1.64	0.61
2:F4:198:ILE:HA	2:F4:272:MET:HE1	1.81	0.61
1:B:497:THR:HG23	1:B:507:PRO:HB3	1.82	0.61
1:B1:78:GLN:HE22	1:B1:139:ARG:HA	1.65	0.61
1:B2:76:LEU:HD11	1:B2:368:VAL:HG11	1.82	0.61
1:B3:62:ASP:OD1	1:B3:66:ASN:ND2	2.32	0.61
1:B3:160:SER:O	1:B3:166:ARG:NH2	2.32	0.61
1:B3:496:GLU:O	1:B3:500:ARG:HG3	2.00	0.61
1:b5:496:GLU:O	1:b5:500:ARG:HG3	2.00	0.61
2:G1:156:ARG:NH1	2:G1:335:PHE:O	2.33	0.61
2:G1:219:ASP:HB3	2:G1:244:MET:HB2	1.82	0.61
2:C1:219:ASP:HB3	2:C1:244:MET:HB2	1.82	0.61
2:G2:219:ASP:HB3	2:G2:244:MET:HB2	1.82	0.61
2:A3:194:VAL:H	2:G3:263:LYS:NZ	1.97	0.61
2:F3:156:ARG:NH1	2:F3:335:PHE:O	2.33	0.61
2:A4:194:VAL:H	2:G4:263:LYS:HZ2	1.48	0.61
2:G4:156:ARG:NH1	2:G4:335:PHE:O	2.33	0.61
2:C4:38:LYS:HE3	2:C4:74:THR:HG22	1.83	0.61
2:C4:114:GLN:NE2	2:C4:118:ASP:OD2	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E4:114:GLN:NE2	2:E4:118:ASP:OD2	2.32	0.61
1:b:81:ILE:HD12	1:b:400:ARG:HB2	1.82	0.61
1:B1:74:ILE:HD11	1:B1:143:ALA:HA	1.82	0.61
1:B1:76:LEU:HD11	1:B1:368:VAL:HG11	1.82	0.61
1:b1:74:ILE:HD11	1:b1:143:ALA:HA	1.82	0.61
1:b1:78:GLN:HE22	1:b1:139:ARG:HA	1.65	0.61
1:B3:76:LEU:HD11	1:B3:368:VAL:HG11	1.82	0.61
1:b3:96:TYR:O	1:b3:432:ARG:NH1	2.33	0.61
1:b3:163:ARG:O	1:b3:166:ARG:NH2	2.31	0.61
1:B4:78:GLN:HE22	1:B4:139:ARG:HA	1.65	0.61
1:b4:78:GLN:HE22	1:b4:139:ARG:HA	1.65	0.61
2:C0:38:LYS:HE3	2:C0:74:THR:HG22	1.83	0.61
2:A1:79:LYS:HB2	2:A1:320:MET:HE3	1.82	0.61
2:F1:38:LYS:HE3	2:F1:74:THR:HG22	1.83	0.61
2:A2:79:LYS:HB2	2:A2:320:MET:HE3	1.82	0.61
2:G2:196:ASN:HD21	2:G2:277:THR:HG22	1.64	0.61
2:C2:217:LYS:HE2	2:D2:220:THR:HG21	1.81	0.61
2:D2:219:ASP:HB3	2:D2:244:MET:HB2	1.82	0.61
2:A4:198:ILE:HA	2:A4:272:MET:HE1	1.81	0.61
2:D4:198:ILE:HA	2:D4:272:MET:HE1	1.81	0.61
2:E4:38:LYS:HE3	2:E4:74:THR:HG22	1.83	0.61
2:F4:38:LYS:HE3	2:F4:74:THR:HG22	1.83	0.61
1:b:145:HIS:HB2	1:b:151:LEU:HD23	1.81	0.61
1:b:259:LYS:NZ	1:b:260:MET:HE3	2.15	0.61
1:b1:374:SER:O	1:b1:375:ARG:HG2	2.00	0.61
1:B2:259:LYS:NZ	1:B2:260:MET:HE3	2.15	0.61
1:b2:76:LEU:HD11	1:b2:368:VAL:HG11	1.82	0.61
1:B3:136:MET:HG3	1:B3:139:ARG:HD3	1.82	0.61
1:B4:96:TYR:O	1:B4:432:ARG:NH1	2.33	0.61
1:B4:244:GLN:NE2	1:B4:246:ARG:O	2.33	0.61
1:b4:375:ARG:HG3	1:b4:375:ARG:O	2.00	0.61
1:B5:136:MET:HG3	1:B5:139:ARG:HD3	1.82	0.61
1:B5:374:SER:O	1:B5:375:ARG:HG2	1.99	0.61
1:B5:375:ARG:HG3	1:B5:375:ARG:O	2.00	0.61
2:C0:156:ARG:NH1	2:C0:335:PHE:O	2.33	0.61
2:E0:84:VAL:HG13	2:E0:115:ASN:HD22	1.66	0.61
2:F0:79:LYS:HB2	2:F0:320:MET:HE3	1.82	0.61
2:C1:38:LYS:HE3	2:C1:74:THR:HG22	1.83	0.61
2:D1:196:ASN:HD21	2:D1:277:THR:HG22	1.64	0.61
2:E1:156:ARG:NH1	2:E1:335:PHE:O	2.33	0.61
2:A2:38:LYS:HE3	2:A2:74:THR:HG22	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D2:156:ARG:NH1	2:D2:335:PHE:O	2.33	0.61
2:G3:38:LYS:HE3	2:G3:74:THR:HG22	1.83	0.61
2:C4:156:ARG:NH1	2:C4:335:PHE:O	2.33	0.61
2:F4:79:LYS:HB2	2:F4:320:MET:HE3	1.82	0.61
1:b:151:LEU:HD21	1:b:407:GLN:NE2	2.14	0.61
1:b1:136:MET:HG3	1:b1:139:ARG:HD3	1.82	0.61
1:b1:259:LYS:NZ	1:b1:260:MET:HE3	2.15	0.61
1:b2:375:ARG:HG3	1:b2:375:ARG:O	2.00	0.61
1:b3:226:LEU:HB2	1:b3:230:ARG:HB3	1.83	0.61
1:B4:160:SER:O	1:B4:166:ARG:NH2	2.33	0.61
1:b4:136:MET:HG3	1:b4:139:ARG:HD3	1.82	0.61
1:B5:274:VAL:HG13	1:b5:345:GLN:HE22	1.66	0.61
1:b5:163:ARG:O	1:b5:166:ARG:NH2	2.31	0.61
2:G0:219:ASP:HB3	2:G0:244:MET:HB2	1.82	0.61
2:D1:79:LYS:HB2	2:D1:320:MET:HE3	1.82	0.61
2:F1:84:VAL:HG13	2:F1:115:ASN:HD22	1.66	0.61
2:E2:156:ARG:NH1	2:E2:335:PHE:O	2.33	0.61
2:E2:196:ASN:HD21	2:E2:277:THR:HG22	1.64	0.61
2:A4:84:VAL:HG13	2:A4:115:ASN:HD22	1.66	0.61
2:C4:217:LYS:HE2	2:D4:220:THR:HG21	1.81	0.61
1:B:136:MET:HG3	1:B:139:ARG:HD3	1.82	0.61
1:b2:145:HIS:HB2	1:b2:151:LEU:HD23	1.81	0.61
1:b3:76:LEU:HD11	1:b3:368:VAL:HG11	1.82	0.61
1:B4:226:LEU:HB2	1:B4:230:ARG:HB3	1.83	0.61
1:B4:496:GLU:O	1:B4:500:ARG:HG3	2.00	0.61
1:b4:226:LEU:HB2	1:b4:230:ARG:HB3	1.83	0.61
1:b5:136:MET:HG3	1:b5:139:ARG:HD3	1.82	0.61
2:A0:38:LYS:HE3	2:A0:74:THR:HG22	1.83	0.61
2:D0:156:ARG:NH1	2:D0:335:PHE:O	2.33	0.61
2:F0:77:TYR:HE2	2:F0:288:ILE:HA	1.66	0.61
2:F0:84:VAL:HG13	2:F0:115:ASN:HD22	1.66	0.61
2:E1:77:TYR:HE2	2:E1:288:ILE:HA	1.66	0.61
2:F1:79:LYS:HB2	2:F1:320:MET:HE3	1.82	0.61
2:A2:77:TYR:HE2	2:A2:288:ILE:HA	1.66	0.61
2:A3:84:VAL:HG13	2:A3:115:ASN:HD22	1.66	0.61
2:A3:156:ARG:NH1	2:A3:335:PHE:O	2.33	0.61
2:G3:219:ASP:HB3	2:G3:244:MET:HB2	1.82	0.61
2:C3:77:TYR:HE2	2:C3:288:ILE:HA	1.66	0.61
2:D3:79:LYS:HB2	2:D3:320:MET:HE3	1.82	0.61
2:E3:79:LYS:HB2	2:E3:320:MET:HE3	1.82	0.61
2:E3:84:VAL:HG13	2:E3:115:ASN:HD22	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F3:84:VAL:HG13	2:F3:115:ASN:HD22	1.66	0.61
2:G4:198:ILE:HA	2:G4:272:MET:HE1	1.81	0.61
1:b:76:LEU:HD11	1:b:368:VAL:HG11	1.82	0.61
1:b:375:ARG:HD2	1:B1:369:SER:HB2	1.82	0.61
1:b:496:GLU:O	1:b:500:ARG:HG3	2.00	0.61
1:B1:375:ARG:O	1:B1:375:ARG:HG3	2.00	0.61
1:B2:497:THR:HG23	1:B2:507:PRO:HB3	1.82	0.61
1:b2:96:TYR:O	1:b2:432:ARG:NH1	2.33	0.61
1:b4:244:GLN:NE2	1:b4:246:ARG:O	2.33	0.61
1:b4:259:LYS:NZ	1:b4:260:MET:HE3	2.15	0.61
2:E0:170:TRP:HA	2:E0:173:ARG:HD2	1.83	0.61
2:A1:198:ILE:HA	2:A1:272:MET:HE1	1.81	0.61
2:E2:38:LYS:HE3	2:E2:74:THR:HG22	1.83	0.61
2:G3:79:LYS:HB2	2:G3:320:MET:HE3	1.82	0.61
2:E3:77:TYR:HE2	2:E3:288:ILE:HA	1.66	0.61
2:F3:38:LYS:HE3	2:F3:74:THR:HG22	1.83	0.61
2:F3:196:ASN:HD21	2:F3:277:THR:HG22	1.64	0.61
2:E4:79:LYS:HB2	2:E4:320:MET:HE3	1.82	0.61
2:F4:77:TYR:HE2	2:F4:288:ILE:HA	1.66	0.61
1:B:181:ASN:HD21	2:G1:100:ASN:HA	1.65	0.61
1:B:377:TYR:CD1	1:b:384:THR:HG23	2.36	0.61
1:b:259:LYS:HZ2	1:b:260:MET:HE3	1.66	0.61
1:B1:214:TRP:HA	2:G0:103:ASP:OD2	2.01	0.61
1:b2:244:GLN:NE2	1:b2:246:ARG:O	2.33	0.61
1:b2:496:GLU:O	1:b2:500:ARG:HG3	2.00	0.61
1:B3:78:GLN:HE22	1:B3:139:ARG:HA	1.65	0.61
1:B3:226:LEU:HB2	1:B3:230:ARG:HB3	1.83	0.61
1:B3:244:GLN:NE2	1:B3:246:ARG:O	2.33	0.61
1:b3:496:GLU:O	1:b3:500:ARG:HG3	2.00	0.61
1:B4:163:ARG:O	1:B4:166:ARG:NH2	2.31	0.61
2:A0:84:VAL:HG13	2:A0:115:ASN:HD22	1.66	0.61
2:D0:130:GLN:NE2	2:D0:327:MET:O	2.34	0.61
2:F0:38:LYS:HE3	2:F0:74:THR:HG22	1.83	0.61
2:F1:77:TYR:HE2	2:F1:288:ILE:HA	1.66	0.61
2:F1:130:GLN:NE2	2:F1:327:MET:O	2.34	0.61
2:G2:156:ARG:NH1	2:G2:335:PHE:O	2.33	0.61
2:D2:79:LYS:HB2	2:D2:320:MET:HE3	1.82	0.61
2:D2:84:VAL:HG13	2:D2:115:ASN:HD22	1.66	0.61
2:E2:77:TYR:HE2	2:E2:288:ILE:HA	1.66	0.61
2:A3:77:TYR:HE2	2:A3:288:ILE:HA	1.66	0.61
2:C4:84:VAL:HG13	2:C4:115:ASN:HD22	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E4:77:TYR:HE2	2:E4:288:ILE:HA	1.66	0.61
2:E4:156:ARG:NH1	2:E4:335:PHE:O	2.33	0.61
2:F4:156:ARG:NH1	2:F4:335:PHE:O	2.33	0.61
1:B:360:ARG:HH12	1:b5:371:GLU:HA	1.65	0.60
1:b:375:ARG:HG3	1:b:375:ARG:O	2.00	0.60
1:B1:244:GLN:NE2	1:B1:246:ARG:O	2.33	0.60
1:b1:145:HIS:HB2	1:b1:151:LEU:HD23	1.81	0.60
1:B2:74:ILE:HD11	1:B2:143:ALA:HA	1.82	0.60
1:B2:145:HIS:HB2	1:B2:151:LEU:HD23	1.81	0.60
1:b4:74:ILE:HD11	1:b4:143:ALA:HA	1.82	0.60
1:B5:96:TYR:O	1:B5:432:ARG:NH1	2.33	0.60
1:B5:163:ARG:O	1:B5:166:ARG:NH2	2.32	0.60
1:B5:226:LEU:HB2	1:B5:230:ARG:HB3	1.83	0.60
1:B5:259:LYS:NZ	1:B5:260:MET:HE3	2.15	0.60
2:A0:130:GLN:NE2	2:A0:327:MET:O	2.34	0.60
2:A0:156:ARG:NH1	2:A0:335:PHE:O	2.33	0.60
2:E1:38:LYS:HE3	2:E1:74:THR:HG22	1.83	0.60
2:E2:130:GLN:NE2	2:E2:327:MET:O	2.34	0.60
2:F2:38:LYS:HE3	2:F2:74:THR:HG22	1.83	0.60
2:F2:219:ASP:HB3	2:F2:244:MET:HB2	1.82	0.60
2:A3:130:GLN:NE2	2:A3:327:MET:O	2.34	0.60
2:C3:38:LYS:HE3	2:C3:74:THR:HG22	1.83	0.60
2:D3:170:TRP:HA	2:D3:173:ARG:HD2	1.83	0.60
2:F3:77:TYR:HE2	2:F3:288:ILE:HA	1.66	0.60
2:C4:79:LYS:HB2	2:C4:320:MET:HE3	1.82	0.60
2:E4:170:TRP:HA	2:E4:173:ARG:HD2	1.83	0.60
2:F4:219:ASP:HB3	2:F4:244:MET:HB2	1.82	0.60
1:B1:145:HIS:HB2	1:B1:151:LEU:HD23	1.81	0.60
1:b1:81:ILE:HD12	1:b1:400:ARG:HB2	1.83	0.60
1:b1:244:GLN:NE2	1:b1:246:ARG:O	2.33	0.60
1:B3:375:ARG:HG3	1:B3:375:ARG:O	2.00	0.60
1:b3:136:MET:HG3	1:b3:139:ARG:HD3	1.82	0.60
1:b3:259:LYS:NZ	1:b3:260:MET:HE3	2.15	0.60
1:B4:76:LEU:HD11	1:B4:368:VAL:HG11	1.82	0.60
1:b4:163:ARG:O	1:b4:166:ARG:NH2	2.31	0.60
2:G0:53:TYR:HB2	2:C0:78:VAL:HG13	1.82	0.60
2:G0:84:VAL:HG13	2:G0:115:ASN:HD22	1.66	0.60
2:C0:198:ILE:HA	2:C0:272:MET:HE1	1.81	0.60
2:D0:79:LYS:HB2	2:D0:320:MET:HE3	1.82	0.60
2:E0:90:LEU:HB3	2:E0:110:ARG:HH12	1.67	0.60
2:E0:156:ARG:NH1	2:E0:335:PHE:O	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:77:TYR:HE2	2:A1:288:ILE:HA	1.66	0.60
2:D1:219:ASP:HB3	2:D1:244:MET:HB2	1.82	0.60
2:E1:170:TRP:HA	2:E1:173:ARG:HD2	1.83	0.60
2:G2:84:VAL:HG13	2:G2:115:ASN:HD22	1.66	0.60
2:D2:130:GLN:NE2	2:D2:327:MET:O	2.34	0.60
2:C3:84:VAL:HG13	2:C3:115:ASN:HD22	1.66	0.60
2:D3:156:ARG:NH1	2:D3:335:PHE:O	2.33	0.60
2:F3:130:GLN:NE2	2:F3:327:MET:O	2.34	0.60
2:F3:219:ASP:HB3	2:F3:244:MET:HB2	1.82	0.60
2:A4:130:GLN:NE2	2:A4:327:MET:O	2.34	0.60
2:C4:130:GLN:NE2	2:C4:327:MET:O	2.34	0.60
2:D4:38:LYS:HE3	2:D4:74:THR:HG22	1.83	0.60
2:D4:130:GLN:NE2	2:D4:327:MET:O	2.34	0.60
2:D4:219:ASP:HB3	2:D4:244:MET:HB2	1.82	0.60
1:B:96:TYR:O	1:B:432:ARG:NH1	2.33	0.60
1:b:136:MET:HG3	1:b:139:ARG:HD3	1.82	0.60
1:B2:78:GLN:HE22	1:B2:139:ARG:HA	1.65	0.60
1:B2:96:TYR:O	1:B2:432:ARG:NH1	2.33	0.60
1:b2:375:ARG:HD2	1:B3:369:SER:HB2	1.83	0.60
1:b5:81:ILE:HD12	1:b5:400:ARG:HB2	1.83	0.60
2:C0:130:GLN:NE2	2:C0:327:MET:O	2.34	0.60
2:E0:38:LYS:HE3	2:E0:74:THR:HG22	1.83	0.60
2:F0:90:LEU:HB3	2:F0:110:ARG:HH12	1.66	0.60
2:F0:156:ARG:NH1	2:F0:335:PHE:O	2.33	0.60
2:A1:156:ARG:NH1	2:A1:335:PHE:O	2.33	0.60
2:C1:156:ARG:NH1	2:C1:335:PHE:O	2.33	0.60
2:F1:170:TRP:HA	2:F1:173:ARG:HD2	1.83	0.60
2:A2:130:GLN:NE2	2:A2:327:MET:O	2.34	0.60
2:G2:38:LYS:HE3	2:G2:74:THR:HG22	1.83	0.60
2:C2:170:TRP:HA	2:C2:173:ARG:HD2	1.83	0.60
2:D3:38:LYS:HE3	2:D3:74:THR:HG22	1.83	0.60
2:G4:84:VAL:HG13	2:G4:115:ASN:HD22	1.66	0.60
2:C4:90:LEU:HB3	2:C4:110:ARG:HH12	1.67	0.60
2:E4:130:GLN:NE2	2:E4:327:MET:O	2.34	0.60
2:F4:196:ASN:HD21	2:F4:277:THR:HG22	1.64	0.60
1:b:497:THR:HG23	1:b:507:PRO:HB3	1.82	0.60
1:B1:271:SER:O	1:B1:275:LYS:HG2	2.02	0.60
1:b1:496:GLU:O	1:b1:500:ARG:HG3	2.00	0.60
1:b2:74:ILE:HD11	1:b2:143:ALA:HA	1.82	0.60
1:B3:377:TYR:CD1	1:b3:384:THR:HG23	2.36	0.60
1:B4:136:MET:HG3	1:B4:139:ARG:HD3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:497:THR:HG23	1:B5:507:PRO:HB3	1.82	0.60
1:b5:271:SER:O	1:b5:275:LYS:HG2	2.02	0.60
2:G0:130:GLN:NE2	2:G0:327:MET:O	2.34	0.60
2:C0:90:LEU:HB3	2:C0:110:ARG:HH12	1.66	0.60
2:C0:219:ASP:HB3	2:C0:244:MET:HB2	1.82	0.60
2:C0:246:GLY:O	2:D0:222:ARG:NH1	2.30	0.60
2:D0:219:ASP:HB3	2:D0:244:MET:HB2	1.82	0.60
2:G1:84:VAL:HG13	2:G1:115:ASN:HD22	1.66	0.60
2:E1:79:LYS:HB2	2:E1:320:MET:HE3	1.82	0.60
2:A2:90:LEU:HB3	2:A2:110:ARG:HH12	1.67	0.60
2:G2:53:TYR:HB2	2:C2:78:VAL:HG13	1.82	0.60
2:G2:79:LYS:HB2	2:G2:320:MET:HE3	1.82	0.60
2:C2:38:LYS:HE3	2:C2:74:THR:HG22	1.83	0.60
2:C2:198:ILE:HA	2:C2:272:MET:HE1	1.81	0.60
2:F2:170:TRP:HA	2:F2:173:ARG:HD2	1.83	0.60
2:F3:170:TRP:HA	2:F3:173:ARG:HD2	1.83	0.60
2:G4:38:LYS:HE3	2:G4:74:THR:HG22	1.83	0.60
2:C4:219:ASP:HB3	2:C4:244:MET:HB2	1.82	0.60
2:E4:90:LEU:HB3	2:E4:110:ARG:HH12	1.66	0.60
1:b:196:ASN:OD1	1:b:200:ALA:N	2.35	0.60
1:B2:496:GLU:O	1:B2:500:ARG:HG3	2.00	0.60
1:b2:226:LEU:HB2	1:b2:230:ARG:HB3	1.83	0.60
2:C0:79:LYS:HB2	2:C0:320:MET:HE3	1.82	0.60
2:C0:84:VAL:HG13	2:C0:115:ASN:HD22	1.66	0.60
2:G1:130:GLN:NE2	2:G1:327:MET:O	2.34	0.60
2:C1:77:TYR:HE2	2:C1:288:ILE:HA	1.66	0.60
2:E1:130:GLN:NE2	2:E1:327:MET:O	2.34	0.60
2:G2:170:TRP:HA	2:G2:173:ARG:HD2	1.83	0.60
2:E3:170:TRP:HA	2:E3:173:ARG:HD2	1.83	0.60
2:G4:130:GLN:NE2	2:G4:327:MET:O	2.34	0.60
2:C4:246:GLY:O	2:D4:222:ARG:NH1	2.30	0.60
2:F4:170:TRP:HA	2:F4:173:ARG:HD2	1.83	0.60
1:B:76:LEU:HD11	1:B:368:VAL:HG11	1.82	0.60
1:B:271:SER:O	1:B:275:LYS:HG2	2.02	0.60
1:B1:81:ILE:HD12	1:B1:400:ARG:HB2	1.83	0.60
1:B3:505:LEU:HG	1:b3:493:GLN:HG2	1.83	0.60
1:b3:244:GLN:NE2	1:b3:246:ARG:O	2.33	0.60
1:b3:497:THR:HG23	1:b3:507:PRO:HB3	1.82	0.60
1:B5:496:GLU:O	1:B5:500:ARG:HG3	2.00	0.60
2:D0:225:ASN:HA	2:E0:242:LYS:HZ1	1.63	0.60
2:F0:170:TRP:HA	2:F0:173:ARG:HD2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F0:196:ASN:HD21	2:F0:277:THR:HG22	1.64	0.60
2:F0:198:ILE:HA	2:F0:272:MET:HE1	1.81	0.60
2:A1:130:GLN:NE2	2:A1:327:MET:O	2.34	0.60
2:A1:170:TRP:HA	2:A1:173:ARG:HD2	1.83	0.60
2:G1:79:LYS:HB2	2:G1:320:MET:HE3	1.82	0.60
2:F1:90:LEU:HB3	2:F1:110:ARG:HH12	1.67	0.60
2:A2:84:VAL:HG13	2:A2:115:ASN:HD22	1.66	0.60
2:F2:77:TYR:HE2	2:F2:288:ILE:HA	1.66	0.60
2:A3:38:LYS:HE3	2:A3:74:THR:HG22	1.83	0.60
2:A3:90:LEU:HB3	2:A3:110:ARG:HH12	1.67	0.60
2:G3:84:VAL:HG13	2:G3:115:ASN:HD22	1.66	0.60
2:D3:130:GLN:NE2	2:D3:327:MET:O	2.34	0.60
2:E3:130:GLN:NE2	2:E3:327:MET:O	2.34	0.60
2:A4:77:TYR:HE2	2:A4:288:ILE:HA	1.66	0.60
2:G4:64:ARG:HH21	2:C4:83:GLU:CD	2.10	0.60
2:D4:156:ARG:NH1	2:D4:335:PHE:O	2.33	0.60
2:D4:170:TRP:HA	2:D4:173:ARG:HD2	1.83	0.60
1:b:91:ARG:O	1:b:444:ASN:ND2	2.35	0.60
1:b:244:GLN:NE2	1:b:246:ARG:O	2.33	0.60
1:B1:196:ASN:OD1	1:B1:200:ALA:N	2.35	0.60
1:B1:377:TYR:CD1	1:b1:384:THR:HG23	2.37	0.60
1:B2:244:GLN:NE2	1:B2:246:ARG:O	2.33	0.60
1:B3:74:ILE:HD11	1:B3:143:ALA:HA	1.82	0.60
1:B4:74:ILE:HD11	1:B4:143:ALA:HA	1.82	0.60
1:B4:81:ILE:HD12	1:B4:400:ARG:HB2	1.83	0.60
1:b4:271:SER:O	1:b4:275:LYS:HG2	2.02	0.60
1:b4:492:GLN:O	1:b4:492:GLN:NE2	2.35	0.60
1:B5:377:TYR:CD1	1:b5:384:THR:HG23	2.36	0.60
2:A0:90:LEU:HB3	2:A0:110:ARG:HH12	1.66	0.60
2:C1:170:TRP:HA	2:C1:173:ARG:HD2	1.83	0.60
2:D1:38:LYS:HE3	2:D1:74:THR:HG22	1.83	0.60
2:E1:84:VAL:HG13	2:E1:115:ASN:HD22	1.66	0.60
2:C2:219:ASP:HB3	2:C2:244:MET:HB2	1.82	0.60
2:A4:38:LYS:HE3	2:A4:74:THR:HG22	1.83	0.60
2:D4:77:TYR:HE2	2:D4:288:ILE:HA	1.66	0.60
2:E4:84:VAL:HG13	2:E4:115:ASN:HD22	1.66	0.60
2:F4:84:VAL:HG13	2:F4:115:ASN:HD22	1.66	0.60
1:b:271:SER:O	1:b:275:LYS:HG2	2.02	0.60
1:b3:492:GLN:NE2	1:b3:492:GLN:O	2.35	0.60
1:B4:259:LYS:NZ	1:B4:260:MET:HE3	2.15	0.60
1:B4:505:LEU:HG	1:b4:493:GLN:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b4:81:ILE:HD12	1:b4:400:ARG:HB2	1.83	0.60
1:b4:96:TYR:O	1:b4:432:ARG:NH1	2.33	0.60
1:B5:76:LEU:HD11	1:B5:368:VAL:HG11	1.82	0.60
1:b5:226:LEU:HB2	1:b5:230:ARG:HB3	1.83	0.60
1:b5:492:GLN:NE2	1:b5:492:GLN:O	2.35	0.60
2:A0:170:TRP:HA	2:A0:173:ARG:HD2	1.83	0.60
2:C0:77:TYR:HE2	2:C0:288:ILE:HA	1.66	0.60
2:D0:90:LEU:HB3	2:D0:110:ARG:HH12	1.67	0.60
2:D0:247:ASP:OD2	2:D0:248:VAL:N	2.35	0.60
2:E0:130:GLN:NE2	2:E0:327:MET:O	2.34	0.60
2:F0:130:GLN:NE2	2:F0:327:MET:O	2.34	0.60
2:A1:90:LEU:HB3	2:A1:110:ARG:HH12	1.67	0.60
2:A1:194:VAL:N	2:G1:263:LYS:HZ1	1.99	0.60
2:D1:84:VAL:HG13	2:D1:115:ASN:HD22	1.66	0.60
2:C2:130:GLN:NE2	2:C2:327:MET:O	2.34	0.60
2:D2:90:LEU:HB3	2:D2:110:ARG:HH12	1.67	0.60
2:E2:170:TRP:HA	2:E2:173:ARG:HD2	1.83	0.60
2:C3:130:GLN:NE2	2:C3:327:MET:O	2.34	0.60
2:C3:247:ASP:OD2	2:C3:248:VAL:N	2.35	0.60
2:D3:247:ASP:OD2	2:D3:248:VAL:N	2.35	0.60
2:G4:77:TYR:HE2	2:G4:288:ILE:HA	1.66	0.60
1:B:91:ARG:O	1:B:444:ASN:ND2	2.35	0.60
1:B1:91:ARG:O	1:B1:444:ASN:ND2	2.35	0.60
1:B1:136:MET:HA	1:B1:139:ARG:HB2	1.84	0.60
1:B2:81:ILE:HD12	1:B2:400:ARG:HB2	1.83	0.60
1:B2:132:ARG:NH1	1:B2:140:GLU:OE1	2.34	0.60
1:B2:271:SER:O	1:B2:275:LYS:HG2	2.02	0.60
1:b2:78:GLN:HE22	1:b2:139:ARG:HA	1.65	0.60
1:B3:259:LYS:NZ	1:B3:260:MET:HE3	2.15	0.60
1:b3:74:ILE:HD11	1:b3:143:ALA:HA	1.82	0.60
1:b3:78:GLN:HE22	1:b3:139:ARG:HA	1.65	0.60
1:b3:81:ILE:HD12	1:b3:400:ARG:HB2	1.82	0.60
1:b3:136:MET:HA	1:b3:139:ARG:HB2	1.84	0.60
1:b4:496:GLU:O	1:b4:500:ARG:HG3	2.00	0.60
1:B5:196:ASN:OD1	1:B5:200:ALA:N	2.35	0.60
1:B5:505:LEU:HG	1:b5:493:GLN:HG2	1.82	0.60
2:G1:247:ASP:OD2	2:G1:248:VAL:N	2.35	0.60
2:D1:77:TYR:HE2	2:D1:288:ILE:HA	1.66	0.60
2:D1:90:LEU:HB3	2:D1:110:ARG:HH12	1.67	0.60
2:E1:84:VAL:HB	2:E1:111:ILE:HG23	1.84	0.60
2:F1:247:ASP:OD2	2:F1:248:VAL:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:77:TYR:HE2	2:C2:288:ILE:HA	1.66	0.60
2:C2:84:VAL:HG13	2:C2:115:ASN:HD22	1.66	0.60
2:E2:247:ASP:OD2	2:E2:248:VAL:N	2.35	0.60
2:A3:170:TRP:HA	2:A3:173:ARG:HD2	1.83	0.60
2:G3:64:ARG:HH21	2:C3:83:GLU:CD	2.10	0.60
2:G3:77:TYR:HE2	2:G3:288:ILE:HA	1.66	0.60
2:G3:90:LEU:HB3	2:G3:110:ARG:HH12	1.67	0.60
2:G3:170:TRP:HA	2:G3:173:ARG:HD2	1.83	0.60
2:G3:247:ASP:OD2	2:G3:248:VAL:N	2.35	0.60
2:C3:90:LEU:HB3	2:C3:110:ARG:HH12	1.66	0.60
1:b:226:LEU:HB2	1:b:230:ARG:HB3	1.83	0.60
1:B1:496:GLU:O	1:B1:500:ARG:HG3	2.00	0.60
1:b1:371:GLU:HA	1:B2:360:ARG:HH12	1.67	0.60
1:B2:377:TYR:CD1	1:b2:384:THR:HG23	2.36	0.60
1:b3:91:ARG:O	1:b3:444:ASN:ND2	2.35	0.60
1:b4:76:LEU:HD11	1:b4:368:VAL:HG11	1.82	0.60
2:D0:292:ASP:O	2:D0:296:GLU:HG2	2.02	0.60
2:E0:247:ASP:OD2	2:E0:248:VAL:N	2.35	0.60
2:A1:247:ASP:OD2	2:A1:248:VAL:N	2.35	0.60
2:G1:292:ASP:O	2:G1:296:GLU:HG2	2.02	0.60
2:E1:247:ASP:OD2	2:E1:248:VAL:N	2.35	0.60
2:G2:90:LEU:HB3	2:G2:110:ARG:HH12	1.66	0.60
2:F2:292:ASP:O	2:F2:296:GLU:HG2	2.02	0.60
2:G3:292:ASP:O	2:G3:296:GLU:HG2	2.02	0.60
2:C3:84:VAL:HB	2:C3:111:ILE:HG23	1.84	0.60
2:F3:90:LEU:HB3	2:F3:110:ARG:HH12	1.67	0.60
2:G4:79:LYS:HB2	2:G4:320:MET:HE3	1.82	0.60
2:F4:90:LEU:HB3	2:F4:110:ARG:HH12	1.66	0.60
2:F4:130:GLN:NE2	2:F4:327:MET:O	2.34	0.60
1:B:505:LEU:HG	1:b:493:GLN:HG2	1.84	0.59
1:B1:136:MET:HG3	1:B1:139:ARG:HD3	1.82	0.59
1:B1:211:TYR:O	1:b1:190:ARG:NH1	2.35	0.59
1:B1:226:LEU:HB2	1:B1:230:ARG:HB3	1.83	0.59
1:b1:96:TYR:O	1:b1:432:ARG:NH1	2.33	0.59
1:B2:226:LEU:HB2	1:B2:230:ARG:HB3	1.83	0.59
1:b2:136:MET:HG3	1:b2:139:ARG:HD3	1.82	0.59
1:B4:136:MET:HA	1:B4:139:ARG:HB2	1.84	0.59
1:B5:271:SER:O	1:B5:275:LYS:HG2	2.02	0.59
2:G0:77:TYR:HE2	2:G0:288:ILE:HA	1.66	0.59
2:C0:235:LEU:HA	2:C0:237:LYS:HZ3	1.67	0.59
2:C0:292:ASP:O	2:C0:296:GLU:HG2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G1:38:LYS:HE3	2:G1:74:THR:HG22	1.83	0.59
2:G1:90:LEU:HB3	2:G1:110:ARG:HH12	1.67	0.59
2:G1:170:TRP:HA	2:G1:173:ARG:HD2	1.83	0.59
2:E1:90:LEU:HB3	2:E1:110:ARG:HH12	1.67	0.59
2:E1:292:ASP:O	2:E1:296:GLU:HG2	2.02	0.59
2:F1:84:VAL:HB	2:F1:111:ILE:HG23	1.84	0.59
2:G2:77:TYR:HE2	2:G2:288:ILE:HA	1.66	0.59
2:E2:292:ASP:O	2:E2:296:GLU:HG2	2.02	0.59
2:F2:90:LEU:HB3	2:F2:110:ARG:HH12	1.66	0.59
2:D3:84:VAL:HB	2:D3:111:ILE:HG23	1.84	0.59
1:B:196:ASN:OD1	1:B:200:ALA:N	2.35	0.59
1:b3:371:GLU:HA	1:B4:360:ARG:HH12	1.67	0.59
1:B4:91:ARG:O	1:B4:444:ASN:ND2	2.35	0.59
1:b4:371:GLU:HA	1:B5:360:ARG:HH12	1.67	0.59
1:B5:492:GLN:NE2	1:B5:492:GLN:O	2.35	0.59
1:b5:91:ARG:O	1:b5:444:ASN:ND2	2.35	0.59
1:b5:132:ARG:NH1	1:b5:140:GLU:OE1	2.34	0.59
2:A0:77:TYR:HE2	2:A0:288:ILE:HA	1.66	0.59
2:A0:247:ASP:OD2	2:A0:248:VAL:N	2.35	0.59
2:A0:292:ASP:O	2:A0:296:GLU:HG2	2.02	0.59
2:G0:64:ARG:HH21	2:C0:83:GLU:CD	2.10	0.59
2:G0:170:TRP:HA	2:G0:173:ARG:HD2	1.83	0.59
2:C0:247:ASP:OD2	2:C0:248:VAL:N	2.35	0.59
2:E0:77:TYR:HE2	2:E0:288:ILE:HA	1.66	0.59
2:A1:292:ASP:O	2:A1:296:GLU:HG2	2.02	0.59
2:C1:130:GLN:NE2	2:C1:327:MET:O	2.34	0.59
2:D1:84:VAL:HB	2:D1:111:ILE:HG23	1.84	0.59
2:D1:130:GLN:NE2	2:D1:327:MET:O	2.34	0.59
2:C2:292:ASP:O	2:C2:296:GLU:HG2	2.02	0.59
2:E2:84:VAL:HG13	2:E2:115:ASN:HD22	1.66	0.59
2:F2:130:GLN:NE2	2:F2:327:MET:O	2.34	0.59
2:E3:292:ASP:O	2:E3:296:GLU:HG2	2.02	0.59
2:F3:247:ASP:OD2	2:F3:248:VAL:N	2.35	0.59
2:G4:84:VAL:HB	2:G4:111:ILE:HG23	1.84	0.59
2:G4:90:LEU:HB3	2:G4:110:ARG:HH12	1.67	0.59
2:D4:194:VAL:H	2:E4:263:LYS:HZ1	1.48	0.59
1:b1:91:ARG:O	1:b1:444:ASN:ND2	2.35	0.59
1:b1:136:MET:HA	1:b1:139:ARG:HB2	1.84	0.59
1:b1:492:GLN:O	1:b1:492:GLN:NE2	2.35	0.59
1:b2:81:ILE:HD12	1:b2:400:ARG:HB2	1.82	0.59
1:B3:91:ARG:O	1:B3:444:ASN:ND2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b4:91:ARG:O	1:b4:444:ASN:ND2	2.35	0.59
1:B5:81:ILE:HD12	1:B5:400:ARG:HB2	1.82	0.59
1:B5:91:ARG:O	1:B5:444:ASN:ND2	2.35	0.59
1:B5:390:ASN:OD1	1:B5:391:GLU:N	2.36	0.59
1:b5:196:ASN:OD1	1:b5:200:ALA:N	2.35	0.59
2:C0:170:TRP:HA	2:C0:173:ARG:HD2	1.83	0.59
2:D0:77:TYR:HE2	2:D0:288:ILE:HA	1.66	0.59
2:F0:84:VAL:HB	2:F0:111:ILE:HG23	1.84	0.59
2:F0:247:ASP:OD2	2:F0:248:VAL:N	2.35	0.59
2:A1:38:LYS:HE3	2:A1:74:THR:HG22	1.83	0.59
2:C1:84:VAL:HG13	2:C1:115:ASN:HD22	1.66	0.59
2:D1:292:ASP:O	2:D1:296:GLU:HG2	2.02	0.59
2:A2:84:VAL:HB	2:A2:111:ILE:HG23	1.84	0.59
2:C2:235:LEU:HA	2:C2:237:LYS:HZ3	1.68	0.59
2:D2:77:TYR:HE2	2:D2:288:ILE:HA	1.66	0.59
2:C3:170:TRP:HA	2:C3:173:ARG:HD2	1.83	0.59
2:D3:84:VAL:HG13	2:D3:115:ASN:HD22	1.66	0.59
2:D3:90:LEU:HB3	2:D3:110:ARG:HH12	1.66	0.59
2:A4:247:ASP:OD2	2:A4:248:VAL:N	2.35	0.59
2:C4:247:ASP:HB3	2:D4:242:LYS:O	2.02	0.59
2:C4:247:ASP:OD2	2:C4:248:VAL:N	2.35	0.59
1:B:377:TYR:C	1:b:379:GLN:HE22	2.11	0.59
1:B:390:ASN:OD1	1:B:391:GLU:N	2.36	0.59
1:b:452:ARG:HD3	1:b:482:ARG:HA	1.84	0.59
1:b:492:GLN:O	1:b:492:GLN:NE2	2.35	0.59
1:B1:492:GLN:O	1:B1:492:GLN:NE2	2.35	0.59
1:b1:226:LEU:HB2	1:b1:230:ARG:HB3	1.83	0.59
1:b1:452:ARG:HD3	1:b1:482:ARG:HA	1.84	0.59
1:B2:196:ASN:OD1	1:B2:200:ALA:N	2.35	0.59
1:B2:505:LEU:HG	1:b2:493:GLN:HG2	1.84	0.59
1:b2:259:LYS:NZ	1:b2:260:MET:HE3	2.15	0.59
1:B3:136:MET:HA	1:B3:139:ARG:HB2	1.84	0.59
1:b3:211:TYR:O	1:B4:190:ARG:NH1	2.35	0.59
2:C0:84:VAL:HB	2:C0:111:ILE:HG23	1.84	0.59
2:G2:130:GLN:NE2	2:G2:327:MET:O	2.34	0.59
2:C2:247:ASP:HB3	2:D2:242:LYS:O	2.02	0.59
2:F2:84:VAL:HG13	2:F2:115:ASN:HD22	1.66	0.59
2:F3:84:VAL:HB	2:F3:111:ILE:HG23	1.84	0.59
1:B:226:LEU:HB2	1:B:230:ARG:HB3	1.83	0.59
1:B:452:ARG:HD3	1:B:482:ARG:HA	1.84	0.59
1:B:492:GLN:O	1:B:492:GLN:NE2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b1:271:SER:O	1:b1:275:LYS:HG2	2.02	0.59
1:B2:492:GLN:NE2	1:B2:492:GLN:O	2.35	0.59
1:b2:196:ASN:OD1	1:b2:200:ALA:N	2.35	0.59
1:b2:492:GLN:NE2	1:b2:492:GLN:O	2.35	0.59
1:B3:96:TYR:O	1:B3:432:ARG:NH1	2.33	0.59
1:b3:196:ASN:OD1	1:b3:200:ALA:N	2.35	0.59
1:b4:196:ASN:OD1	1:b4:200:ALA:N	2.35	0.59
1:b5:76:LEU:HD11	1:b5:368:VAL:HG11	1.82	0.59
2:G0:38:LYS:HE3	2:G0:74:THR:HG22	1.83	0.59
2:F0:292:ASP:O	2:F0:296:GLU:HG2	2.02	0.59
2:C4:77:TYR:HE2	2:C4:288:ILE:HA	1.66	0.59
2:D4:84:VAL:HB	2:D4:111:ILE:HG23	1.84	0.59
2:D4:90:LEU:HB3	2:D4:110:ARG:HH12	1.67	0.59
2:E4:84:VAL:HB	2:E4:111:ILE:HG23	1.84	0.59
2:F4:24:LEU:HD12	2:F4:283:ARG:HD3	1.85	0.59
1:B1:452:ARG:HD3	1:B1:482:ARG:HA	1.85	0.59
1:B2:91:ARG:O	1:B2:444:ASN:ND2	2.35	0.59
1:B3:436:GLN:OE1	1:B3:439:ARG:NH2	2.25	0.59
1:B4:390:ASN:OD1	1:B4:391:GLU:N	2.36	0.59
1:b4:136:MET:HA	1:b4:139:ARG:HB2	1.84	0.59
1:B5:132:ARG:NH1	1:B5:140:GLU:OE1	2.34	0.59
2:G0:247:ASP:OD2	2:G0:248:VAL:N	2.35	0.59
2:D0:38:LYS:HE3	2:D0:74:THR:HG22	1.83	0.59
2:C1:84:VAL:HB	2:C1:111:ILE:HG23	1.84	0.59
2:C1:90:LEU:HB3	2:C1:110:ARG:HH12	1.67	0.59
2:C1:247:ASP:HB3	2:D1:242:LYS:O	2.02	0.59
2:F1:292:ASP:O	2:F1:296:GLU:HG2	2.02	0.59
2:E3:84:VAL:HB	2:E3:111:ILE:HG23	1.84	0.59
2:A4:90:LEU:HB3	2:A4:110:ARG:HH12	1.67	0.59
2:D4:84:VAL:HG13	2:D4:115:ASN:HD22	1.66	0.59
1:b:136:MET:HA	1:b:139:ARG:HB2	1.85	0.59
1:B1:390:ASN:OD1	1:B1:391:GLU:N	2.36	0.59
1:B2:452:ARG:HD3	1:B2:482:ARG:HA	1.84	0.59
1:B3:81:ILE:HD12	1:B3:400:ARG:HB2	1.83	0.59
1:B3:271:SER:O	1:B3:275:LYS:HG2	2.02	0.59
1:B3:492:GLN:O	1:B3:492:GLN:NE2	2.35	0.59
1:b3:271:SER:O	1:b3:275:LYS:HG2	2.02	0.59
1:b5:96:TYR:O	1:b5:432:ARG:NH1	2.33	0.59
1:b5:452:ARG:HD3	1:b5:482:ARG:HA	1.84	0.59
2:G0:84:VAL:HB	2:G0:111:ILE:HG23	1.84	0.59
2:G0:90:LEU:HB3	2:G0:110:ARG:HH12	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F0:24:LEU:HD12	2:F0:283:ARG:HD3	1.85	0.59
2:D1:170:TRP:HA	2:D1:173:ARG:HD2	1.83	0.59
2:A2:247:ASP:OD2	2:A2:248:VAL:N	2.35	0.59
2:C2:90:LEU:HB3	2:C2:110:ARG:HH12	1.67	0.59
2:C2:247:ASP:OD2	2:C2:248:VAL:N	2.35	0.59
2:E2:84:VAL:HB	2:E2:111:ILE:HG23	1.84	0.59
2:A3:247:ASP:OD2	2:A3:248:VAL:N	2.35	0.59
2:E4:292:ASP:O	2:E4:296:GLU:HG2	2.02	0.59
1:b:133:THR:HG23	1:B1:406:ARG:HH22	1.68	0.59
1:B4:371:GLU:HA	1:b4:360:ARG:HH12	1.67	0.59
2:C0:24:LEU:HD12	2:C0:283:ARG:HD3	1.85	0.59
2:D0:84:VAL:HB	2:D0:111:ILE:HG23	1.84	0.59
2:A1:84:VAL:HG13	2:A1:115:ASN:HD22	1.66	0.59
2:A1:276:ASN:OD1	2:A1:277:THR:N	2.36	0.59
2:C1:24:LEU:HD12	2:C1:283:ARG:HD3	1.85	0.59
2:C2:86:PRO:HB3	2:C2:107:ARG:HD2	1.85	0.59
2:A3:84:VAL:HB	2:A3:111:ILE:HG23	1.84	0.59
2:G3:130:GLN:NE2	2:G3:327:MET:O	2.34	0.59
2:D3:77:TYR:HE2	2:D3:288:ILE:HA	1.66	0.59
2:F3:24:LEU:HD12	2:F3:283:ARG:HD3	1.85	0.59
2:C4:53:TYR:OH	2:D4:143:THR:O	2.21	0.59
2:C4:170:TRP:HA	2:C4:173:ARG:HD2	1.83	0.59
2:F4:247:ASP:OD2	2:F4:248:VAL:N	2.35	0.59
2:F4:292:ASP:O	2:F4:296:GLU:HG2	2.02	0.59
1:B3:211:TYR:O	1:b3:190:ARG:NH1	2.36	0.59
1:B3:377:TYR:C	1:b3:379:GLN:HE22	2.11	0.59
1:B4:377:TYR:CD1	1:b4:384:THR:HG23	2.38	0.59
2:G0:276:ASN:OD1	2:G0:277:THR:N	2.36	0.59
2:D0:170:TRP:HA	2:D0:173:ARG:HD2	1.83	0.59
2:A1:24:LEU:HD12	2:A1:283:ARG:HD3	1.85	0.59
2:G1:77:TYR:HE2	2:G1:288:ILE:HA	1.66	0.59
2:G2:63:ILE:HB	2:C2:82:HIS:CE1	2.38	0.59
2:G2:247:ASP:OD2	2:G2:248:VAL:N	2.35	0.59
2:D2:38:LYS:HE3	2:D2:74:THR:HG22	1.83	0.59
2:E3:38:LYS:HE3	2:E3:74:THR:HG22	1.83	0.59
2:E3:86:PRO:HB3	2:E3:107:ARG:HD2	1.85	0.59
2:E3:90:LEU:HB3	2:E3:110:ARG:HH12	1.67	0.59
2:A4:170:TRP:HA	2:A4:173:ARG:HD2	1.83	0.59
2:C4:292:ASP:O	2:C4:296:GLU:HG2	2.02	0.59
2:D4:292:ASP:O	2:D4:296:GLU:HG2	2.02	0.59
2:F4:84:VAL:HB	2:F4:111:ILE:HG23	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:265:GLN:HE21	1:b1:259:LYS:HZ2	1.51	0.59
1:b1:132:ARG:NH1	1:b1:140:GLU:OE1	2.34	0.59
1:b1:196:ASN:OD1	1:b1:200:ALA:N	2.35	0.59
1:b1:390:ASN:OD1	1:b1:391:GLU:N	2.36	0.59
1:B2:136:MET:HA	1:B2:139:ARG:HB2	1.84	0.59
1:B2:390:ASN:OD1	1:B2:391:GLU:N	2.36	0.59
1:b2:91:ARG:O	1:b2:444:ASN:ND2	2.35	0.59
1:b2:505:LEU:HG	1:B3:493:GLN:HG2	1.84	0.59
1:B3:390:ASN:OD1	1:B3:391:GLU:N	2.36	0.59
1:B4:271:SER:O	1:B4:275:LYS:HG2	2.02	0.59
1:B4:492:GLN:NE2	1:B4:492:GLN:O	2.35	0.59
1:B5:452:ARG:HD3	1:B5:482:ARG:HA	1.84	0.59
2:D0:24:LEU:HD12	2:D0:283:ARG:HD3	1.85	0.59
2:D0:276:ASN:OD1	2:D0:277:THR:N	2.36	0.59
2:E0:24:LEU:HD12	2:E0:283:ARG:HD3	1.85	0.59
2:A1:86:PRO:HB3	2:A1:107:ARG:HD2	1.85	0.59
2:C1:86:PRO:HB3	2:C1:107:ARG:HD2	1.85	0.59
2:A2:170:TRP:HA	2:A2:173:ARG:HD2	1.83	0.59
2:G2:64:ARG:HH21	2:C2:83:GLU:CD	2.10	0.59
2:C2:276:ASN:OD1	2:C2:277:THR:N	2.36	0.59
2:D2:292:ASP:O	2:D2:296:GLU:HG2	2.02	0.59
2:G3:84:VAL:HB	2:G3:111:ILE:HG23	1.84	0.59
2:G3:86:PRO:HB3	2:G3:107:ARG:HD2	1.85	0.59
2:D3:86:PRO:HB3	2:D3:107:ARG:HD2	1.85	0.59
2:E3:247:ASP:OD2	2:E3:248:VAL:N	2.35	0.59
2:E4:247:ASP:OD2	2:E4:248:VAL:N	2.35	0.59
2:E4:276:ASN:OD1	2:E4:277:THR:N	2.36	0.59
1:b:390:ASN:OD1	1:b:391:GLU:N	2.36	0.58
1:b1:505:LEU:HG	1:B2:493:GLN:HG2	1.85	0.58
1:b4:132:ARG:NH1	1:b4:140:GLU:OE1	2.34	0.58
1:b4:452:ARG:HD3	1:b4:482:ARG:HA	1.84	0.58
1:b5:390:ASN:OD1	1:b5:391:GLU:N	2.36	0.58
2:A0:276:ASN:ND2	2:G0:256:GLN:OE1	2.36	0.58
2:E0:86:PRO:HB3	2:E0:107:ARG:HD2	1.85	0.58
2:C1:247:ASP:OD2	2:C1:248:VAL:N	2.35	0.58
2:D1:276:ASN:OD1	2:D1:277:THR:N	2.36	0.58
2:D2:24:LEU:HD12	2:D2:283:ARG:HD3	1.85	0.58
2:D2:170:TRP:HA	2:D2:173:ARG:HD2	1.83	0.58
2:A3:86:PRO:HB3	2:A3:107:ARG:HD2	1.85	0.58
2:A3:89:THR:OG1	2:F3:43:GLN:NE2	2.36	0.58
2:C3:53:TYR:OH	2:D3:143:THR:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:86:PRO:HB3	2:C3:107:ARG:HD2	1.85	0.58
2:A4:86:PRO:HB3	2:A4:107:ARG:HD2	1.85	0.58
2:A4:276:ASN:ND2	2:G4:256:GLN:OE1	2.36	0.58
2:G4:170:TRP:HA	2:G4:173:ARG:HD2	1.83	0.58
1:B:81:ILE:HD12	1:B:400:ARG:HB2	1.83	0.58
1:b2:271:SER:O	1:b2:275:LYS:HG2	2.02	0.58
1:b2:371:GLU:HA	1:B3:360:ARG:HH12	1.68	0.58
1:b2:390:ASN:OD1	1:b2:391:GLU:N	2.36	0.58
1:B3:196:ASN:OD1	1:B3:200:ALA:N	2.35	0.58
1:b4:377:TYR:CD1	1:B5:384:THR:HG23	2.39	0.58
2:A0:86:PRO:HB3	2:A0:107:ARG:HD2	1.85	0.58
2:A0:276:ASN:OD1	2:A0:277:THR:N	2.36	0.58
2:G0:63:ILE:HB	2:C0:82:HIS:CE1	2.38	0.58
2:G0:292:ASP:O	2:G0:296:GLU:HG2	2.02	0.58
2:C0:291:ALA:N	2:G4:316:ARG:HH11	2.01	0.58
2:E0:84:VAL:HB	2:E0:111:ILE:HG23	1.84	0.58
2:F0:276:ASN:OD1	2:F0:277:THR:N	2.36	0.58
2:A1:89:THR:OG1	2:F1:43:GLN:NE2	2.36	0.58
2:C1:276:ASN:OD1	2:C1:277:THR:N	2.36	0.58
2:C1:292:ASP:O	2:C1:296:GLU:HG2	2.02	0.58
2:D1:306:LYS:HG3	2:D1:308:TRP:CD1	2.38	0.58
2:A2:86:PRO:HB3	2:A2:107:ARG:HD2	1.85	0.58
2:G2:306:LYS:HG3	2:G2:308:TRP:CD1	2.39	0.58
2:D2:247:ASP:OD2	2:D2:248:VAL:N	2.35	0.58
2:E2:90:LEU:HB3	2:E2:110:ARG:HH12	1.66	0.58
2:A3:276:ASN:ND2	2:G3:256:GLN:OE1	2.36	0.58
2:A4:292:ASP:O	2:A4:296:GLU:HG2	2.02	0.58
2:G4:247:ASP:OD2	2:G4:248:VAL:N	2.35	0.58
2:C4:24:LEU:HD12	2:C4:283:ARG:HD3	1.85	0.58
2:C4:86:PRO:HB3	2:C4:107:ARG:HD2	1.85	0.58
2:D4:247:ASP:OD2	2:D4:248:VAL:N	2.35	0.58
2:E4:86:PRO:HB3	2:E4:107:ARG:HD2	1.85	0.58
1:B:136:MET:HA	1:B:139:ARG:HB2	1.84	0.58
1:b1:36:ARG:HD3	2:G0:295:ARG:CG	2.34	0.58
1:b1:85:PHE:HE2	1:b1:87:ARG:HB2	1.69	0.58
1:b1:377:TYR:CD1	1:B2:384:THR:HG23	2.38	0.58
1:B2:85:PHE:HE2	1:B2:87:ARG:HB2	1.69	0.58
1:b2:260:MET:HA	1:b2:263:THR:HG22	1.86	0.58
1:B3:260:MET:HA	1:B3:263:THR:HG22	1.86	0.58
1:B4:260:MET:HA	1:B4:263:THR:HG22	1.86	0.58
1:b4:260:MET:HA	1:b4:263:THR:HG22	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b4:390:ASN:OD1	1:b4:391:GLU:N	2.36	0.58
2:A0:89:THR:OG1	2:F0:43:GLN:NE2	2.36	0.58
2:G0:86:PRO:HB3	2:G0:107:ARG:HD2	1.85	0.58
2:C0:53:TYR:OH	2:D0:143:THR:O	2.21	0.58
2:D0:84:VAL:HG13	2:D0:115:ASN:HD22	1.66	0.58
2:E0:292:ASP:O	2:E0:296:GLU:HG2	2.02	0.58
2:G1:24:LEU:HD12	2:G1:283:ARG:HD3	1.85	0.58
2:G1:306:LYS:HG3	2:G1:308:TRP:CD1	2.39	0.58
2:D1:42:SER:HA	2:D1:68:GLY:H	1.69	0.58
2:D1:86:PRO:HB3	2:D1:107:ARG:HD2	1.85	0.58
2:D1:247:ASP:OD2	2:D1:248:VAL:N	2.35	0.58
2:F1:86:PRO:HB3	2:F1:107:ARG:HD2	1.85	0.58
2:A2:276:ASN:OD1	2:A2:277:THR:N	2.36	0.58
2:G2:292:ASP:O	2:G2:296:GLU:HG2	2.02	0.58
2:D2:86:PRO:HB3	2:D2:107:ARG:HD2	1.85	0.58
2:D2:306:LYS:HG3	2:D2:308:TRP:CD1	2.39	0.58
2:C3:24:LEU:HD12	2:C3:283:ARG:HD3	1.85	0.58
2:D3:306:LYS:HG3	2:D3:308:TRP:CD1	2.38	0.58
2:E3:306:LYS:HG3	2:E3:308:TRP:CD1	2.39	0.58
2:G4:63:ILE:HB	2:C4:82:HIS:CE1	2.38	0.58
2:G4:86:PRO:HB3	2:G4:107:ARG:HD2	1.85	0.58
2:C4:84:VAL:HB	2:C4:111:ILE:HG23	1.84	0.58
1:b:371:GLU:HA	1:B1:360:ARG:HH12	1.68	0.58
1:b:377:TYR:CD1	1:B1:384:THR:HG23	2.39	0.58
1:B1:85:PHE:HE2	1:B1:87:ARG:HB2	1.69	0.58
1:B1:96:TYR:O	1:B1:432:ARG:NH1	2.33	0.58
1:b1:377:TYR:C	1:B2:379:GLN:HE22	2.12	0.58
1:b2:211:TYR:O	1:B3:190:ARG:NH1	2.36	0.58
1:b2:274:VAL:HG13	1:B3:345:GLN:HE22	1.68	0.58
1:b2:452:ARG:HD3	1:b2:482:ARG:HA	1.85	0.58
1:B3:371:GLU:HA	1:b3:360:ARG:HH12	1.69	0.58
1:b3:390:ASN:OD1	1:b3:391:GLU:N	2.36	0.58
1:b4:211:TYR:O	1:B5:190:ARG:NH1	2.36	0.58
1:B5:85:PHE:HE2	1:B5:87:ARG:HB2	1.69	0.58
1:B5:136:MET:HA	1:B5:139:ARG:HB2	1.84	0.58
2:A0:84:VAL:HB	2:A0:111:ILE:HG23	1.84	0.58
2:C0:86:PRO:HB3	2:C0:107:ARG:HD2	1.85	0.58
2:F0:235:LEU:HA	2:F0:237:LYS:HZ3	1.68	0.58
2:A1:306:LYS:HG3	2:A1:308:TRP:CD1	2.39	0.58
2:E1:276:ASN:OD1	2:E1:277:THR:N	2.36	0.58
2:E1:306:LYS:HG3	2:E1:308:TRP:CD1	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:306:LYS:HG3	2:C2:308:TRP:CD1	2.39	0.58
2:D2:276:ASN:ND2	2:E2:263:LYS:NZ	2.51	0.58
2:A3:276:ASN:OD1	2:A3:277:THR:N	2.36	0.58
2:D3:292:ASP:O	2:D3:296:GLU:HG2	2.02	0.58
2:F3:292:ASP:O	2:F3:296:GLU:HG2	2.02	0.58
2:E4:24:LEU:HD12	2:E4:283:ARG:HD3	1.85	0.58
2:E4:306:LYS:HG3	2:E4:308:TRP:CD1	2.38	0.58
2:F4:276:ASN:OD1	2:F4:277:THR:N	2.36	0.58
1:b:257:GLN:NE2	1:b:362:ILE:HD13	2.19	0.58
1:b:436:GLN:OE1	1:b:439:ARG:NH2	2.25	0.58
1:b2:85:PHE:HE2	1:b2:87:ARG:HB2	1.69	0.58
1:B4:211:TYR:O	1:b4:190:ARG:NH1	2.37	0.58
1:B4:452:ARG:HD3	1:B4:482:ARG:HA	1.84	0.58
2:G0:24:LEU:HD12	2:G0:283:ARG:HD3	1.85	0.58
2:F0:86:PRO:HB3	2:F0:107:ARG:HD2	1.85	0.58
2:A1:84:VAL:HB	2:A1:111:ILE:HG23	1.84	0.58
2:G1:276:ASN:OD1	2:G1:277:THR:N	2.36	0.58
2:C1:306:LYS:HG3	2:C1:308:TRP:CD1	2.38	0.58
2:D1:24:LEU:HD12	2:D1:283:ARG:HD3	1.85	0.58
2:F1:42:SER:HA	2:F1:68:GLY:H	1.69	0.58
2:D2:84:VAL:HB	2:D2:111:ILE:HG23	1.84	0.58
2:D2:276:ASN:HB2	2:E2:263:LYS:HZ3	1.69	0.58
2:F2:306:LYS:HG3	2:F2:308:TRP:CD1	2.39	0.58
2:G3:42:SER:HA	2:G3:68:GLY:H	1.69	0.58
2:G4:42:SER:HA	2:G4:68:GLY:H	1.69	0.58
2:G4:276:ASN:OD1	2:G4:277:THR:N	2.36	0.58
2:G4:306:LYS:HG3	2:G4:308:TRP:CD1	2.39	0.58
2:C4:276:ASN:OD1	2:C4:277:THR:N	2.36	0.58
2:D4:306:LYS:HG3	2:D4:308:TRP:CD1	2.38	0.58
1:b:85:PHE:HE2	1:b:87:ARG:HB2	1.69	0.58
1:B1:371:GLU:HA	1:b1:360:ARG:HH12	1.68	0.58
1:b1:265:GLN:HE21	1:B2:259:LYS:HZ2	1.51	0.58
1:B2:260:MET:HA	1:B2:263:THR:HG22	1.86	0.58
1:b2:136:MET:HA	1:b2:139:ARG:HB2	1.84	0.58
1:b3:377:TYR:CD1	1:B4:384:THR:HG23	2.39	0.58
1:B4:85:PHE:HE2	1:B4:87:ARG:HB2	1.69	0.58
1:B4:196:ASN:OD1	1:B4:200:ALA:N	2.35	0.58
2:A1:91:ARG:NH1	2:F1:30:GLU:CD	2.62	0.58
2:E1:24:LEU:HD12	2:E1:283:ARG:HD3	1.85	0.58
2:F1:24:LEU:HD12	2:F1:283:ARG:HD3	1.85	0.58
2:C2:84:VAL:HB	2:C2:111:ILE:HG23	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D2:42:SER:HA	2:D2:68:GLY:H	1.69	0.58
2:E2:86:PRO:HB3	2:E2:107:ARG:HD2	1.85	0.58
2:E2:276:ASN:OD1	2:E2:277:THR:N	2.36	0.58
2:F2:84:VAL:HB	2:F2:111:ILE:HG23	1.84	0.58
2:F2:247:ASP:OD2	2:F2:248:VAL:N	2.35	0.58
2:G3:306:LYS:HG3	2:G3:308:TRP:CD1	2.39	0.58
2:G3:316:ARG:HH11	2:C4:291:ALA:N	2.01	0.58
2:C3:42:SER:HA	2:C3:68:GLY:H	1.69	0.58
2:D3:24:LEU:HD12	2:D3:283:ARG:HD3	1.85	0.58
2:E3:276:ASN:OD1	2:E3:277:THR:N	2.36	0.58
2:F3:42:SER:HA	2:F3:68:GLY:H	1.69	0.58
2:F3:276:ASN:OD1	2:F3:277:THR:N	2.36	0.58
1:B:349:ASN:HB3	1:B:351:TYR:HD1	1.69	0.58
1:b:274:VAL:HG13	1:B1:345:GLN:HE22	1.68	0.58
1:B1:349:ASN:HB3	1:B1:351:TYR:HD1	1.69	0.58
1:b1:34:GLN:OE1	1:b1:34:GLN:N	2.37	0.58
1:b1:211:TYR:O	1:B2:190:ARG:NH1	2.37	0.58
1:B2:267:THR:HA	1:B2:270:GLN:HG3	1.86	0.58
1:b2:34:GLN:OE1	1:b2:34:GLN:N	2.37	0.58
1:B3:257:GLN:NE2	1:B3:362:ILE:HD13	2.19	0.58
1:b3:133:THR:HG23	1:B4:406:ARG:HH22	1.69	0.58
2:A0:306:LYS:HG3	2:A0:308:TRP:CD1	2.39	0.58
2:G0:316:ARG:HH11	2:C1:291:ALA:N	2.01	0.58
2:E0:276:ASN:OD1	2:E0:277:THR:N	2.36	0.58
2:G1:64:ARG:HH21	2:C1:83:GLU:CD	2.10	0.58
2:G1:84:VAL:HB	2:G1:111:ILE:HG23	1.84	0.58
2:G4:292:ASP:O	2:G4:296:GLU:HG2	2.02	0.58
2:C4:42:SER:HA	2:C4:68:GLY:H	1.69	0.58
2:C4:306:LYS:HG3	2:C4:308:TRP:CD1	2.38	0.58
2:D4:24:LEU:HD12	2:D4:283:ARG:HD3	1.85	0.58
1:B1:377:TYR:C	1:b1:379:GLN:HE22	2.12	0.58
1:b1:267:THR:HA	1:b1:270:GLN:HG3	1.86	0.58
1:B2:34:GLN:OE1	1:B2:34:GLN:N	2.37	0.58
1:b3:257:GLN:NE2	1:b3:362:ILE:HD13	2.19	0.58
1:b3:260:MET:HA	1:b3:263:THR:HG22	1.86	0.58
1:b4:377:TYR:C	1:B5:379:GLN:HE22	2.12	0.58
1:B5:133:THR:HG23	1:b5:406:ARG:HH22	1.68	0.58
1:B5:260:MET:HA	1:B5:263:THR:HG22	1.86	0.58
2:G1:63:ILE:HB	2:C1:82:HIS:CE1	2.38	0.58
2:D1:235:LEU:HA	2:D1:237:LYS:HZ3	1.69	0.58
2:D2:276:ASN:OD1	2:D2:277:THR:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E2:257:TYR:HB3	2:E2:266:PHE:CE1	2.39	0.58
2:E2:306:LYS:HG3	2:E2:308:TRP:CD1	2.39	0.58
2:F2:24:LEU:HD12	2:F2:283:ARG:HD3	1.85	0.58
2:A3:257:TYR:HB3	2:A3:266:PHE:CE1	2.39	0.58
2:G3:276:ASN:OD1	2:G3:277:THR:N	2.36	0.58
2:C3:247:ASP:HB3	2:D3:242:LYS:O	2.02	0.58
2:C3:292:ASP:O	2:C3:296:GLU:HG2	2.02	0.58
2:D3:276:ASN:OD1	2:D3:277:THR:N	2.36	0.58
2:A4:84:VAL:HB	2:A4:111:ILE:HG23	1.84	0.58
2:A4:89:THR:OG1	2:F4:43:GLN:NE2	2.36	0.58
2:C4:257:TYR:HB3	2:C4:266:PHE:CE1	2.39	0.58
2:D4:276:ASN:OD1	2:D4:277:THR:N	2.36	0.58
1:B:85:PHE:HE2	1:B:87:ARG:HB2	1.69	0.58
1:B:257:GLN:NE2	1:B:362:ILE:HD13	2.19	0.58
1:B1:267:THR:HA	1:B1:270:GLN:HG3	1.86	0.58
1:B2:36:ARG:CA	2:C0:104:PRO:CG	2.81	0.58
1:B3:452:ARG:HD3	1:B3:482:ARG:HA	1.84	0.58
1:B4:267:THR:HA	1:B4:270:GLN:HG3	1.86	0.58
2:G0:257:TYR:HB3	2:G0:266:PHE:CE1	2.39	0.58
2:C0:247:ASP:HB3	2:D0:242:LYS:O	2.02	0.58
2:C0:257:TYR:HB3	2:C0:266:PHE:CE1	2.39	0.58
2:C0:276:ASN:OD1	2:C0:277:THR:N	2.36	0.58
2:C0:306:LYS:HG3	2:C0:308:TRP:CD1	2.39	0.58
2:F0:42:SER:HA	2:F0:68:GLY:H	1.69	0.58
2:E1:86:PRO:HB3	2:E1:107:ARG:HD2	1.85	0.58
2:A2:89:THR:OG1	2:F2:43:GLN:NE2	2.36	0.58
2:G2:42:SER:HA	2:G2:68:GLY:H	1.69	0.58
2:C2:24:LEU:HD12	2:C2:283:ARG:HD3	1.85	0.58
2:G3:24:LEU:HD12	2:G3:283:ARG:HD3	1.85	0.58
2:D3:257:TYR:HB3	2:D3:266:PHE:CE1	2.39	0.58
2:G4:257:TYR:HB3	2:G4:266:PHE:CE1	2.39	0.58
2:D4:86:PRO:HB3	2:D4:107:ARG:HD2	1.85	0.58
2:D4:257:TYR:HB3	2:D4:266:PHE:CE1	2.39	0.58
2:E4:257:TYR:HB3	2:E4:266:PHE:CE1	2.39	0.58
1:B:182:ASN:HB2	2:G1:103:ASP:OD2	2.03	0.58
1:b:267:THR:HA	1:b:270:GLN:HG3	1.86	0.58
1:B1:257:GLN:NE2	1:B1:362:ILE:HD13	2.19	0.58
1:B2:267:THR:O	1:B2:270:GLN:NE2	2.37	0.58
1:B2:274:VAL:HG13	1:b2:345:GLN:HE22	1.68	0.58
1:b2:181:ASN:ND2	2:G4:100:ASN:HD22	2.02	0.58
1:b2:257:GLN:NE2	1:b2:362:ILE:HD13	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b3:452:ARG:HD3	1:b3:482:ARG:HA	1.84	0.58
1:B4:132:ARG:NH1	1:B4:140:GLU:OE1	2.34	0.58
1:B4:267:THR:O	1:B4:270:GLN:NE2	2.37	0.58
1:b4:267:THR:HA	1:b4:270:GLN:HG3	1.86	0.58
1:b4:349:ASN:HB3	1:b4:351:TYR:HD1	1.69	0.58
1:b5:260:MET:HA	1:b5:263:THR:HG22	1.86	0.58
1:b5:267:THR:O	1:b5:270:GLN:NE2	2.37	0.58
2:A0:24:LEU:HD12	2:A0:283:ARG:HD3	1.85	0.58
2:A0:257:TYR:HB3	2:A0:266:PHE:CE1	2.39	0.58
2:E0:257:TYR:HB3	2:E0:266:PHE:CE1	2.39	0.58
2:C1:53:TYR:OH	2:D1:143:THR:O	2.21	0.58
2:A2:292:ASP:O	2:A2:296:GLU:HG2	2.02	0.58
2:A2:306:LYS:HG3	2:A2:308:TRP:CD1	2.38	0.58
2:F2:257:TYR:HB3	2:F2:266:PHE:CE1	2.39	0.58
2:C3:257:TYR:HB3	2:C3:266:PHE:CE1	2.39	0.58
2:C3:276:ASN:OD1	2:C3:277:THR:N	2.36	0.58
2:C3:306:LYS:HG3	2:C3:308:TRP:CD1	2.38	0.58
2:F3:257:TYR:HB3	2:F3:266:PHE:CE1	2.39	0.58
1:B:267:THR:O	1:B:270:GLN:NE2	2.37	0.57
1:B1:34:GLN:OE1	1:B1:34:GLN:N	2.37	0.57
1:B2:257:GLN:NE2	1:B2:362:ILE:HD13	2.19	0.57
1:B3:34:GLN:N	1:B3:34:GLN:OE1	2.37	0.57
1:b4:267:THR:O	1:b4:270:GLN:NE2	2.37	0.57
1:B5:267:THR:O	1:B5:270:GLN:NE2	2.37	0.57
1:b5:136:MET:HA	1:b5:139:ARG:HB2	1.84	0.57
1:b5:257:GLN:NE2	1:b5:362:ILE:HD13	2.19	0.57
2:D0:86:PRO:HB3	2:D0:107:ARG:HD2	1.85	0.57
2:D0:306:LYS:HG3	2:D0:308:TRP:CD1	2.38	0.57
2:E0:306:LYS:HG3	2:E0:308:TRP:CD1	2.38	0.57
2:D1:276:ASN:ND2	2:E1:263:LYS:NZ	2.51	0.57
2:E1:257:TYR:HB3	2:E1:266:PHE:CE1	2.39	0.57
2:G2:276:ASN:OD1	2:G2:277:THR:N	2.36	0.57
2:G3:63:ILE:HB	2:C3:82:HIS:CE1	2.38	0.57
2:D3:42:SER:HA	2:D3:68:GLY:H	1.69	0.57
2:E3:42:SER:HA	2:E3:68:GLY:H	1.69	0.57
2:F3:306:LYS:HG3	2:F3:308:TRP:CD1	2.38	0.57
1:B:260:MET:HA	1:B:263:THR:HG22	1.86	0.57
1:b1:260:MET:HA	1:b1:263:THR:HG22	1.86	0.57
1:B2:371:GLU:HA	1:b2:360:ARG:HH12	1.69	0.57
1:B3:85:PHE:HE2	1:B3:87:ARG:HB2	1.69	0.57
1:B5:34:GLN:OE1	1:B5:34:GLN:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:257:GLN:NE2	1:B5:362:ILE:HD13	2.19	0.57
1:B5:349:ASN:HB3	1:B5:351:TYR:HD1	1.69	0.57
2:G0:113:MET:HA	2:G0:116:MET:HE2	1.87	0.57
2:C0:120:GLU:HA	2:C0:123:ILE:HG12	1.87	0.57
2:D0:113:MET:HA	2:D0:116:MET:HE2	1.86	0.57
2:F0:257:TYR:HB3	2:F0:266:PHE:CE1	2.39	0.57
2:A1:120:GLU:HA	2:A1:123:ILE:HG12	1.87	0.57
2:G1:257:TYR:HB3	2:G1:266:PHE:CE1	2.39	0.57
2:C1:42:SER:HA	2:C1:68:GLY:H	1.69	0.57
2:C1:161:ASN:ND2	2:C1:337:SER:OG	2.38	0.57
2:G2:86:PRO:HB3	2:G2:107:ARG:HD2	1.85	0.57
2:C2:53:TYR:OH	2:D2:143:THR:O	2.21	0.57
2:D2:113:MET:HA	2:D2:116:MET:HE2	1.86	0.57
2:E2:161:ASN:ND2	2:E2:337:SER:OG	2.38	0.57
2:F2:276:ASN:OD1	2:F2:277:THR:N	2.36	0.57
2:A3:120:GLU:HA	2:A3:123:ILE:HG12	1.86	0.57
2:A3:194:VAL:H	2:G3:263:LYS:HZ2	1.52	0.57
2:A4:42:SER:HA	2:A4:68:GLY:H	1.69	0.57
2:F4:306:LYS:HG3	2:F4:308:TRP:CD1	2.38	0.57
1:B:371:GLU:HA	1:b:360:ARG:HH12	1.68	0.57
1:B1:132:ARG:NH1	1:B1:140:GLU:OE1	2.34	0.57
1:b1:267:THR:O	1:b1:270:GLN:NE2	2.38	0.57
1:B2:349:ASN:HB3	1:B2:351:TYR:HD1	1.69	0.57
1:b2:267:THR:HA	1:b2:270:GLN:HG3	1.86	0.57
1:b2:377:TYR:CD1	1:B3:384:THR:HG23	2.39	0.57
1:b3:85:PHE:HE2	1:b3:87:ARG:HB2	1.69	0.57
1:b3:267:THR:HA	1:b3:270:GLN:HG3	1.86	0.57
1:b5:85:PHE:HE2	1:b5:87:ARG:HB2	1.69	0.57
2:A0:91:ARG:NH1	2:F0:30:GLU:CD	2.62	0.57
2:G0:306:LYS:HG3	2:G0:308:TRP:CD1	2.38	0.57
2:F0:306:LYS:HG3	2:F0:308:TRP:CD1	2.38	0.57
2:G1:316:ARG:HH11	2:C2:291:ALA:N	2.02	0.57
2:C1:257:TYR:HB3	2:C1:266:PHE:CE1	2.39	0.57
2:D1:257:TYR:HB3	2:D1:266:PHE:CE1	2.39	0.57
2:A2:24:LEU:HD12	2:A2:283:ARG:HD3	1.85	0.57
2:G2:84:VAL:HB	2:G2:111:ILE:HG23	1.84	0.57
2:G2:120:GLU:HA	2:G2:123:ILE:HG12	1.86	0.57
2:D2:62:VAL:HG22	2:E2:318:PHE:HZ	1.69	0.57
2:F2:113:MET:HA	2:F2:116:MET:HE2	1.87	0.57
2:A3:24:LEU:HD12	2:A3:283:ARG:HD3	1.85	0.57
2:G3:120:GLU:HA	2:G3:123:ILE:HG12	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G3:161:ASN:ND2	2:G3:337:SER:OG	2.38	0.57
2:E3:24:LEU:HD12	2:E3:283:ARG:HD3	1.85	0.57
2:E3:257:TYR:HB3	2:E3:266:PHE:CE1	2.39	0.57
2:G4:161:ASN:ND2	2:G4:337:SER:OG	2.38	0.57
1:B:267:THR:HA	1:B:270:GLN:HG3	1.86	0.57
1:B:493:GLN:HG2	1:b5:505:LEU:HG	1.85	0.57
1:b:260:MET:HA	1:b:263:THR:HG22	1.86	0.57
1:b2:267:THR:O	1:b2:270:GLN:NE2	2.38	0.57
1:b3:267:THR:O	1:b3:270:GLN:NE2	2.38	0.57
2:G0:120:GLU:HA	2:G0:123:ILE:HG12	1.86	0.57
2:D0:161:ASN:ND2	2:D0:337:SER:OG	2.38	0.57
2:D0:276:ASN:ND2	2:E0:263:LYS:NZ	2.51	0.57
2:A1:42:SER:HA	2:A1:68:GLY:H	1.69	0.57
2:A1:257:TYR:HB3	2:A1:266:PHE:CE1	2.39	0.57
2:A1:276:ASN:ND2	2:G1:256:GLN:OE1	2.36	0.57
2:G1:42:SER:HA	2:G1:68:GLY:H	1.69	0.57
2:G1:86:PRO:HB3	2:G1:107:ARG:HD2	1.85	0.57
2:D1:120:GLU:HA	2:D1:123:ILE:HG12	1.87	0.57
2:D1:161:ASN:ND2	2:D1:337:SER:OG	2.38	0.57
2:F1:306:LYS:HG3	2:F1:308:TRP:CD1	2.39	0.57
2:G2:113:MET:HA	2:G2:116:MET:HE2	1.87	0.57
2:G2:235:LEU:HA	2:G2:237:LYS:HZ3	1.68	0.57
2:G2:316:ARG:HH11	2:C3:291:ALA:N	2.01	0.57
2:E2:24:LEU:HD12	2:E2:283:ARG:HD3	1.85	0.57
2:E2:113:MET:HA	2:E2:116:MET:HE2	1.87	0.57
2:A4:257:TYR:HB3	2:A4:266:PHE:CE1	2.39	0.57
1:B:176:ARG:NH2	1:B:208:GLU:O	2.38	0.57
1:B1:260:MET:HA	1:B1:263:THR:HG22	1.86	0.57
1:b1:257:GLN:NE2	1:b1:362:ILE:HD13	2.19	0.57
1:B3:479:CYS:HA	1:B3:482:ARG:HG2	1.87	0.57
1:b3:349:ASN:HB3	1:b3:351:TYR:HD1	1.69	0.57
1:b3:505:LEU:HG	1:B4:493:GLN:HG2	1.86	0.57
1:b4:34:GLN:OE1	1:b4:34:GLN:N	2.37	0.57
1:b4:257:GLN:NE2	1:b4:362:ILE:HD13	2.19	0.57
1:b5:34:GLN:OE1	1:b5:34:GLN:N	2.37	0.57
1:b5:176:ARG:NH2	1:b5:208:GLU:O	2.38	0.57
1:b5:349:ASN:HB3	1:b5:351:TYR:HD1	1.69	0.57
2:G0:161:ASN:ND2	2:G0:337:SER:OG	2.38	0.57
2:C0:42:SER:HA	2:C0:68:GLY:H	1.69	0.57
2:G1:113:MET:HA	2:G1:116:MET:HE2	1.87	0.57
2:A2:257:TYR:HB3	2:A2:266:PHE:CE1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G2:24:LEU:HD12	2:G2:283:ARG:HD3	1.85	0.57
2:C2:257:TYR:HB3	2:C2:266:PHE:CE1	2.39	0.57
2:F2:86:PRO:HB3	2:F2:107:ARG:HD2	1.85	0.57
1:b:267:THR:O	1:b:270:GLN:NE2	2.38	0.57
1:b3:34:GLN:N	1:b3:34:GLN:OE1	2.37	0.57
1:B4:34:GLN:OE1	1:B4:34:GLN:N	2.37	0.57
2:A1:161:ASN:ND2	2:A1:337:SER:OG	2.38	0.57
2:D2:194:VAL:N	2:E2:263:LYS:HZ1	2.02	0.57
2:C3:161:ASN:ND2	2:C3:337:SER:OG	2.38	0.57
2:D3:161:ASN:ND2	2:D3:337:SER:OG	2.38	0.57
2:F3:86:PRO:HB3	2:F3:107:ARG:HD2	1.85	0.57
2:F3:161:ASN:ND2	2:F3:337:SER:OG	2.38	0.57
2:A4:276:ASN:OD1	2:A4:277:THR:N	2.36	0.57
2:A4:306:LYS:HG3	2:A4:308:TRP:CD1	2.38	0.57
2:C4:235:LEU:HA	2:C4:237:LYS:HZ3	1.69	0.57
2:D4:161:ASN:ND2	2:D4:337:SER:OG	2.38	0.57
2:E4:42:SER:HA	2:E4:68:GLY:H	1.69	0.57
2:F4:86:PRO:HB3	2:F4:107:ARG:HD2	1.85	0.57
1:B5:211:TYR:O	1:b5:190:ARG:NH1	2.38	0.57
2:A0:161:ASN:ND2	2:A0:337:SER:OG	2.38	0.57
2:D0:81:LYS:HB3	2:D0:320:MET:SD	2.45	0.57
2:E0:42:SER:HA	2:E0:68:GLY:H	1.69	0.57
2:C1:81:LYS:HB3	2:C1:320:MET:SD	2.45	0.57
2:E1:120:GLU:HA	2:E1:123:ILE:HG12	1.87	0.57
2:F1:81:LYS:HB3	2:F1:320:MET:SD	2.45	0.57
2:F1:120:GLU:HA	2:F1:123:ILE:HG12	1.86	0.57
2:F1:276:ASN:OD1	2:F1:277:THR:N	2.36	0.57
2:A2:91:ARG:NH1	2:F2:30:GLU:CD	2.62	0.57
2:C2:81:LYS:HB3	2:C2:320:MET:SD	2.45	0.57
2:D2:120:GLU:HA	2:D2:123:ILE:HG12	1.87	0.57
2:E2:42:SER:HA	2:E2:68:GLY:H	1.69	0.57
2:A4:161:ASN:ND2	2:A4:337:SER:OG	2.38	0.57
2:G4:113:MET:HA	2:G4:116:MET:HE2	1.87	0.57
2:D4:42:SER:HA	2:D4:68:GLY:H	1.69	0.57
1:B:360:ARG:CZ	1:b5:376:ASN:OD1	2.53	0.57
1:b:176:ARG:NH2	1:b:208:GLU:O	2.38	0.57
1:B1:267:THR:O	1:B1:270:GLN:NE2	2.37	0.57
1:B3:267:THR:O	1:B3:270:GLN:NE2	2.37	0.57
1:b3:479:CYS:HA	1:b3:482:ARG:HG2	1.87	0.57
1:b3:492:GLN:HG2	1:B4:474:THR:HB	1.87	0.57
1:B4:257:GLN:NE2	1:B4:362:ILE:HD13	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B4:377:TYR:C	1:b4:379:GLN:HE22	2.13	0.57
1:b4:176:ARG:NH2	1:b4:208:GLU:O	2.38	0.57
1:B5:267:THR:HA	1:B5:270:GLN:HG3	1.86	0.57
2:C0:161:ASN:ND2	2:C0:337:SER:OG	2.38	0.57
2:D0:42:SER:HA	2:D0:68:GLY:H	1.69	0.57
2:C1:235:LEU:HA	2:C1:237:LYS:HZ3	1.70	0.57
2:C1:246:GLY:O	2:D1:222:ARG:NH1	2.30	0.57
2:D2:81:LYS:HB3	2:D2:320:MET:SD	2.45	0.57
2:D2:257:TYR:HB3	2:D2:266:PHE:CE1	2.39	0.57
2:F2:42:SER:HA	2:F2:68:GLY:H	1.69	0.57
2:A3:306:LYS:HG3	2:A3:308:TRP:CD1	2.39	0.57
2:G3:113:MET:HA	2:G3:116:MET:HE2	1.87	0.57
2:G3:257:TYR:HB3	2:G3:266:PHE:CE1	2.39	0.57
2:C3:81:LYS:HB3	2:C3:320:MET:SD	2.45	0.57
2:A4:24:LEU:HD12	2:A4:283:ARG:HD3	1.85	0.57
2:C4:81:LYS:HB3	2:C4:320:MET:SD	2.45	0.57
2:D4:276:ASN:ND2	2:E4:263:LYS:NZ	2.51	0.57
1:b:211:TYR:O	1:B1:190:ARG:NH1	2.38	0.57
1:B2:211:TYR:O	1:b2:190:ARG:NH1	2.38	0.57
1:B2:377:TYR:C	1:b2:379:GLN:HE22	2.13	0.57
1:B3:349:ASN:HB3	1:B3:351:TYR:HD1	1.69	0.57
1:B4:133:THR:HG23	1:b4:406:ARG:HH22	1.70	0.57
1:B4:349:ASN:HB3	1:B4:351:TYR:HD1	1.69	0.57
1:B5:176:ARG:NH2	1:B5:208:GLU:O	2.38	0.57
1:b5:436:GLN:OE1	1:b5:439:ARG:NH2	2.25	0.57
2:A0:81:LYS:HB3	2:A0:320:MET:SD	2.45	0.57
2:A0:120:GLU:HA	2:A0:123:ILE:HG12	1.87	0.57
2:G0:42:SER:HA	2:G0:68:GLY:H	1.69	0.57
2:C0:232:VAL:HG21	2:C0:241:TYR:HB2	1.87	0.57
2:G1:81:LYS:HB3	2:G1:320:MET:SD	2.45	0.57
2:F1:161:ASN:ND2	2:F1:337:SER:OG	2.38	0.57
2:A2:161:ASN:ND2	2:A2:337:SER:OG	2.38	0.57
2:G2:161:ASN:ND2	2:G2:337:SER:OG	2.38	0.57
2:E2:178:TYR:OH	2:E2:183:ASP:OD1	2.23	0.57
2:A3:81:LYS:HB3	2:A3:320:MET:SD	2.45	0.57
2:A3:113:MET:HA	2:A3:116:MET:HE2	1.87	0.57
2:C3:235:LEU:HA	2:C3:237:LYS:HZ3	1.70	0.57
2:D3:120:GLU:HA	2:D3:123:ILE:HG12	1.86	0.57
2:E3:15:GLN:HE21	2:E3:116:MET:HE3	1.70	0.57
2:F3:113:MET:HA	2:F3:116:MET:HE2	1.87	0.57
2:E4:113:MET:HA	2:E4:116:MET:HE2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:384:THR:HG23	1:b5:377:TYR:CD1	2.40	0.57
1:B:406:ARG:HH22	1:b5:133:THR:HG23	1.70	0.57
1:b1:133:THR:HG23	1:B2:406:ARG:HH22	1.70	0.57
1:B2:133:THR:HG23	1:b2:406:ARG:HH22	1.70	0.57
1:B4:176:ARG:NH2	1:B4:208:GLU:O	2.38	0.57
1:b4:505:LEU:HG	1:B5:493:GLN:HG2	1.85	0.57
1:b5:267:THR:HA	1:b5:270:GLN:HG3	1.86	0.57
2:A0:15:GLN:HE21	2:A0:116:MET:HE3	1.70	0.57
2:C0:81:LYS:HB3	2:C0:320:MET:SD	2.45	0.57
2:D0:257:TYR:HB3	2:D0:266:PHE:CE1	2.39	0.57
2:F0:161:ASN:ND2	2:F0:337:SER:OG	2.38	0.57
2:C1:232:VAL:HG21	2:C1:241:TYR:HB2	1.87	0.57
2:E1:161:ASN:ND2	2:E1:337:SER:OG	2.38	0.57
2:F1:113:MET:HA	2:F1:116:MET:HE2	1.86	0.57
2:F1:257:TYR:HB3	2:F1:266:PHE:CE1	2.39	0.57
2:A2:42:SER:HA	2:A2:68:GLY:H	1.69	0.57
2:A2:81:LYS:HB3	2:A2:320:MET:SD	2.45	0.57
2:G2:178:TYR:OH	2:G2:183:ASP:OD1	2.23	0.57
2:C2:113:MET:HA	2:C2:116:MET:HE2	1.87	0.57
2:E3:113:MET:HA	2:E3:116:MET:HE2	1.87	0.57
2:G4:24:LEU:HD12	2:G4:283:ARG:HD3	1.85	0.57
2:G4:120:GLU:HA	2:G4:123:ILE:HG12	1.86	0.57
2:E4:15:GLN:HE21	2:E4:116:MET:HE3	1.70	0.57
1:B:34:GLN:OE1	1:B:34:GLN:N	2.37	0.56
1:b:34:GLN:OE1	1:b:34:GLN:N	2.37	0.56
1:B3:176:ARG:HB3	1:B3:206:VAL:HG13	1.88	0.56
1:b4:479:CYS:HA	1:b4:482:ARG:HG2	1.87	0.56
2:A0:42:SER:HA	2:A0:68:GLY:H	1.69	0.56
2:G0:14:GLU:HB2	2:G0:16:LYS:NZ	2.20	0.56
2:E0:14:GLU:HB2	2:E0:16:LYS:NZ	2.20	0.56
2:A1:81:LYS:HB3	2:A1:320:MET:SD	2.45	0.56
2:D1:14:GLU:HB2	2:D1:16:LYS:NZ	2.20	0.56
2:C2:161:ASN:ND2	2:C2:337:SER:OG	2.38	0.56
2:A3:161:ASN:ND2	2:A3:337:SER:OG	2.38	0.56
2:C3:178:TYR:OH	2:C3:183:ASP:OD1	2.23	0.56
2:F3:15:GLN:HE21	2:F3:116:MET:HE3	1.70	0.56
2:F3:178:TYR:OH	2:F3:183:ASP:OD1	2.23	0.56
2:A4:15:GLN:HE21	2:A4:116:MET:HE3	1.70	0.56
2:A4:81:LYS:HB3	2:A4:320:MET:SD	2.45	0.56
2:A4:113:MET:HA	2:A4:116:MET:HE2	1.87	0.56
2:C4:161:ASN:ND2	2:C4:337:SER:OG	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F4:161:ASN:ND2	2:F4:337:SER:OG	2.38	0.56
2:F4:257:TYR:HB3	2:F4:266:PHE:CE1	2.39	0.56
1:B1:133:THR:HG23	1:b1:406:ARG:HH22	1.69	0.56
1:B2:36:ARG:CA	2:C0:104:PRO:HG2	2.35	0.56
1:b2:133:THR:HG23	1:B3:406:ARG:HH22	1.70	0.56
2:A0:232:VAL:HG21	2:A0:241:TYR:HB2	1.87	0.56
2:G0:176:SER:HA	2:G0:212:LYS:HG2	1.87	0.56
2:E0:120:GLU:HA	2:E0:123:ILE:HG12	1.86	0.56
2:E0:161:ASN:ND2	2:E0:337:SER:OG	2.38	0.56
2:F0:81:LYS:HB3	2:F0:320:MET:SD	2.45	0.56
2:A1:14:GLU:HB2	2:A1:16:LYS:NZ	2.20	0.56
2:G2:81:LYS:HB3	2:G2:320:MET:SD	2.45	0.56
2:C2:232:VAL:HG21	2:C2:241:TYR:HB2	1.87	0.56
2:D2:176:SER:HA	2:D2:212:LYS:HG2	1.88	0.56
2:A3:14:GLU:HB2	2:A3:16:LYS:NZ	2.20	0.56
2:A3:292:ASP:O	2:A3:296:GLU:HG2	2.02	0.56
2:C3:15:GLN:HE21	2:C3:116:MET:HE3	1.70	0.56
2:C3:120:GLU:HA	2:C3:123:ILE:HG12	1.86	0.56
2:F3:176:SER:HA	2:F3:212:LYS:HG2	1.87	0.56
2:A4:91:ARG:NH1	2:F4:30:GLU:CD	2.62	0.56
2:G4:81:LYS:HB3	2:G4:320:MET:SD	2.45	0.56
2:C4:232:VAL:HG21	2:C4:241:TYR:HB2	1.87	0.56
2:E4:178:TYR:OH	2:E4:183:ASP:OD1	2.23	0.56
2:F4:42:SER:HA	2:F4:68:GLY:H	1.69	0.56
2:F4:81:LYS:HB3	2:F4:320:MET:SD	2.45	0.56
1:B:379:GLN:HE22	1:b5:377:TYR:C	2.14	0.56
1:b2:176:ARG:HB3	1:b2:206:VAL:HG13	1.88	0.56
1:B3:267:THR:HA	1:B3:270:GLN:HG3	1.86	0.56
1:b3:132:ARG:NH1	1:b3:140:GLU:OE1	2.34	0.56
1:b3:176:ARG:NH2	1:b3:208:GLU:O	2.38	0.56
1:b3:176:ARG:HB3	1:b3:206:VAL:HG13	1.88	0.56
1:b4:85:PHE:HE2	1:b4:87:ARG:HB2	1.69	0.56
1:b5:148:ASN:ND2	1:b5:150:GLU:OE2	2.39	0.56
2:A0:14:GLU:HB2	2:A0:16:LYS:NZ	2.20	0.56
2:G0:178:TYR:OH	2:G0:183:ASP:OD1	2.23	0.56
2:D0:14:GLU:HB2	2:D0:16:LYS:NZ	2.20	0.56
2:D0:232:VAL:HG21	2:D0:241:TYR:HB2	1.87	0.56
2:E0:81:LYS:HB3	2:E0:320:MET:SD	2.45	0.56
2:F0:14:GLU:HB2	2:F0:16:LYS:NZ	2.20	0.56
2:F0:120:GLU:HA	2:F0:123:ILE:HG12	1.86	0.56
2:G1:232:VAL:HG21	2:G1:241:TYR:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D1:81:LYS:HB3	2:D1:320:MET:SD	2.45	0.56
2:D1:232:VAL:HG21	2:D1:241:TYR:HB2	1.87	0.56
2:G2:257:TYR:HB3	2:G2:266:PHE:CE1	2.39	0.56
2:C2:15:GLN:HE21	2:C2:116:MET:HE3	1.70	0.56
2:D2:15:GLN:HE21	2:D2:116:MET:HE3	1.70	0.56
2:D2:161:ASN:ND2	2:D2:337:SER:OG	2.38	0.56
2:E2:120:GLU:HA	2:E2:123:ILE:HG12	1.87	0.56
2:E2:176:SER:HA	2:E2:212:LYS:HG2	1.88	0.56
2:E2:269:ASP:OD1	2:E2:270:ASN:N	2.39	0.56
2:F2:15:GLN:HE21	2:F2:116:MET:HE3	1.70	0.56
2:A3:42:SER:HA	2:A3:68:GLY:H	1.69	0.56
2:A3:269:ASP:OD1	2:A3:270:ASN:N	2.39	0.56
2:G3:81:LYS:HB3	2:G3:320:MET:SD	2.45	0.56
2:C3:182:ASP:OD1	2:C3:183:ASP:N	2.38	0.56
2:C3:232:VAL:HG21	2:C3:241:TYR:HB2	1.87	0.56
2:D3:14:GLU:HB2	2:D3:16:LYS:NZ	2.20	0.56
2:E3:14:GLU:HB2	2:E3:16:LYS:NZ	2.21	0.56
2:E3:161:ASN:ND2	2:E3:337:SER:OG	2.38	0.56
2:E3:178:TYR:OH	2:E3:183:ASP:OD1	2.23	0.56
2:F3:81:LYS:HB3	2:F3:320:MET:SD	2.45	0.56
2:F3:120:GLU:HA	2:F3:123:ILE:HG12	1.87	0.56
2:F3:235:LEU:HA	2:F3:237:LYS:HZ3	1.70	0.56
2:G4:178:TYR:OH	2:G4:183:ASP:OD1	2.23	0.56
2:G4:306:LYS:HZ2	2:G4:308:TRP:CD1	2.23	0.56
2:C4:14:GLU:HB2	2:C4:16:LYS:NZ	2.20	0.56
2:C4:178:TYR:OH	2:C4:183:ASP:OD1	2.23	0.56
2:D4:120:GLU:HA	2:D4:123:ILE:HG12	1.86	0.56
2:D4:269:ASP:OD1	2:D4:270:ASN:N	2.39	0.56
2:E4:81:LYS:HB3	2:E4:320:MET:SD	2.45	0.56
2:E4:120:GLU:HA	2:E4:123:ILE:HG12	1.86	0.56
2:E4:161:ASN:ND2	2:E4:337:SER:OG	2.38	0.56
1:b:349:ASN:HB3	1:b:351:TYR:HD1	1.69	0.56
1:b1:176:ARG:HB3	1:b1:206:VAL:HG13	1.88	0.56
1:b2:176:ARG:NH2	1:b2:208:GLU:O	2.38	0.56
1:b2:479:CYS:HA	1:b2:482:ARG:HG2	1.87	0.56
1:B4:176:ARG:HB3	1:B4:206:VAL:HG13	1.88	0.56
1:B5:479:CYS:HA	1:B5:482:ARG:HG2	1.87	0.56
2:G0:81:LYS:HB3	2:G0:320:MET:SD	2.45	0.56
2:C0:14:GLU:HB2	2:C0:16:LYS:NZ	2.20	0.56
2:C0:113:MET:HA	2:C0:116:MET:HE2	1.87	0.56
2:F0:182:ASP:OD1	2:F0:183:ASP:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G1:218:LEU:HA	2:G1:245:TYR:HA	1.88	0.56
2:C1:178:TYR:OH	2:C1:183:ASP:OD1	2.23	0.56
2:E1:42:SER:HA	2:E1:68:GLY:H	1.69	0.56
2:E1:176:SER:HA	2:E1:212:LYS:HG2	1.88	0.56
2:G2:269:ASP:OD1	2:G2:270:ASN:N	2.38	0.56
2:C2:176:SER:HA	2:C2:212:LYS:HG2	1.87	0.56
2:F2:235:LEU:HA	2:F2:237:LYS:HZ3	1.71	0.56
2:A3:91:ARG:NH1	2:F3:30:GLU:CD	2.62	0.56
2:G3:14:GLU:HB2	2:G3:16:LYS:NZ	2.20	0.56
2:D3:81:LYS:HB3	2:D3:320:MET:SD	2.45	0.56
2:E3:269:ASP:OD1	2:E3:270:ASN:N	2.39	0.56
2:F3:232:VAL:HG21	2:F3:241:TYR:HB2	1.87	0.56
2:A4:232:VAL:HG21	2:A4:241:TYR:HB2	1.87	0.56
2:G4:235:LEU:HA	2:G4:237:LYS:HZ3	1.70	0.56
2:D4:81:LYS:HB3	2:D4:320:MET:SD	2.45	0.56
2:D4:182:ASP:OD1	2:D4:183:ASP:N	2.39	0.56
2:F4:178:TYR:OH	2:F4:183:ASP:OD1	2.23	0.56
1:b:148:ASN:ND2	1:b:150:GLU:OE2	2.39	0.56
1:B2:176:ARG:HB3	1:B2:206:VAL:HG13	1.88	0.56
1:b2:349:ASN:HB3	1:b2:351:TYR:HD1	1.69	0.56
1:B3:176:ARG:NH2	1:B3:208:GLU:O	2.38	0.56
1:b4:160:SER:HB2	1:b4:163:ARG:HH12	1.71	0.56
1:b4:176:ARG:HB3	1:b4:206:VAL:HG13	1.88	0.56
1:b4:436:GLN:OE1	1:b4:439:ARG:NH2	2.25	0.56
1:B5:148:ASN:ND2	1:B5:150:GLU:OE2	2.39	0.56
1:B5:160:SER:HB2	1:B5:163:ARG:HH12	1.70	0.56
2:A0:176:SER:HA	2:A0:212:LYS:HG2	1.87	0.56
2:D0:15:GLN:HE21	2:D0:116:MET:HE3	1.70	0.56
2:E0:113:MET:HA	2:E0:116:MET:HE2	1.87	0.56
2:E0:176:SER:HA	2:E0:212:LYS:HG2	1.88	0.56
2:F1:14:GLU:HB2	2:F1:16:LYS:NZ	2.20	0.56
2:G2:14:GLU:HB2	2:G2:16:LYS:NZ	2.20	0.56
2:C2:42:SER:HA	2:C2:68:GLY:H	1.69	0.56
2:C2:120:GLU:HA	2:C2:123:ILE:HG12	1.86	0.56
2:A3:15:GLN:HE21	2:A3:116:MET:HE3	1.70	0.56
2:C4:113:MET:HA	2:C4:116:MET:HE2	1.87	0.56
2:C4:120:GLU:HA	2:C4:123:ILE:HG12	1.86	0.56
2:D4:276:ASN:ND2	2:E4:263:LYS:HZ3	2.04	0.56
1:B1:176:ARG:NH2	1:B1:208:GLU:O	2.38	0.56
1:b1:479:CYS:HA	1:b1:482:ARG:HG2	1.87	0.56
2:A0:194:VAL:H	2:G0:263:LYS:HZ2	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:269:ASP:OD1	2:A0:270:ASN:N	2.38	0.56
2:F0:113:MET:HA	2:F0:116:MET:HE2	1.87	0.56
2:A1:218:LEU:HA	2:A1:245:TYR:HA	1.88	0.56
2:G1:14:GLU:HB2	2:G1:16:LYS:NZ	2.20	0.56
2:C1:176:SER:HA	2:C1:212:LYS:HG2	1.88	0.56
2:D1:113:MET:HA	2:D1:116:MET:HE2	1.87	0.56
2:G2:218:LEU:HA	2:G2:245:TYR:HA	1.88	0.56
2:E2:14:GLU:HB2	2:E2:16:LYS:NZ	2.20	0.56
2:A3:218:LEU:HA	2:A3:245:TYR:HA	1.88	0.56
2:C3:113:MET:HA	2:C3:116:MET:HE2	1.87	0.56
2:E3:81:LYS:HB3	2:E3:320:MET:SD	2.45	0.56
2:D4:235:LEU:HA	2:D4:237:LYS:HZ3	1.71	0.56
2:E4:232:VAL:HG21	2:E4:241:TYR:HB2	1.87	0.56
1:B:148:ASN:ND2	1:B:150:GLU:OE2	2.39	0.56
1:b:479:CYS:HA	1:b:482:ARG:HG2	1.87	0.56
1:b1:436:GLN:OE1	1:b1:439:ARG:NH2	2.25	0.56
1:b2:148:ASN:ND2	1:b2:150:GLU:OE2	2.39	0.56
1:B4:160:SER:HB2	1:B4:163:ARG:HH12	1.71	0.56
1:B4:274:VAL:HG13	1:b4:345:GLN:HE22	1.71	0.56
1:B5:176:ARG:HB3	1:B5:206:VAL:HG13	1.88	0.56
2:A0:182:ASP:OD1	2:A0:183:ASP:N	2.39	0.56
2:G0:218:LEU:HA	2:G0:245:TYR:HA	1.88	0.56
2:D0:178:TYR:OH	2:D0:183:ASP:OD1	2.23	0.56
2:D0:269:ASP:OD1	2:D0:270:ASN:N	2.39	0.56
2:E0:178:TYR:OH	2:E0:183:ASP:OD1	2.23	0.56
2:A1:15:GLN:HE21	2:A1:116:MET:HE3	1.70	0.56
2:A1:269:ASP:OD1	2:A1:270:ASN:N	2.39	0.56
2:G1:120:GLU:HA	2:G1:123:ILE:HG12	1.86	0.56
2:G1:161:ASN:ND2	2:G1:337:SER:OG	2.38	0.56
2:C1:14:GLU:HB2	2:C1:16:LYS:NZ	2.20	0.56
2:F1:269:ASP:OD1	2:F1:270:ASN:N	2.39	0.56
2:A2:178:TYR:OH	2:A2:183:ASP:OD1	2.23	0.56
2:G3:218:LEU:HA	2:G3:245:TYR:HA	1.88	0.56
2:D3:218:LEU:HA	2:D3:245:TYR:HA	1.88	0.56
2:A4:178:TYR:OH	2:A4:183:ASP:OD1	2.23	0.56
2:F4:14:GLU:HB2	2:F4:16:LYS:NZ	2.20	0.56
2:F4:232:VAL:HG21	2:F4:241:TYR:HB2	1.87	0.56
1:B:474:THR:HB	1:b5:492:GLN:HG2	1.88	0.56
1:B:479:CYS:HA	1:B:482:ARG:HG2	1.87	0.56
1:B1:148:ASN:ND2	1:B1:150:GLU:OE2	2.39	0.56
1:B1:176:ARG:HB3	1:B1:206:VAL:HG13	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B2:148:ASN:ND2	1:B2:150:GLU:OE2	2.39	0.56
1:B2:176:ARG:NH2	1:B2:208:GLU:O	2.38	0.56
1:B2:479:CYS:HA	1:B2:482:ARG:HG2	1.87	0.56
1:B3:148:ASN:ND2	1:B3:150:GLU:OE2	2.39	0.56
1:b4:376:ASN:OD1	1:B5:360:ARG:CZ	2.54	0.56
1:b4:492:GLN:HG2	1:B5:474:THR:HB	1.88	0.56
1:b5:160:SER:HB2	1:b5:163:ARG:HH12	1.71	0.56
2:A0:113:MET:HA	2:A0:116:MET:HE2	1.87	0.56
2:G0:269:ASP:OD1	2:G0:270:ASN:N	2.39	0.56
2:E0:232:VAL:HG21	2:E0:241:TYR:HB2	1.87	0.56
2:F0:176:SER:HA	2:F0:212:LYS:HG2	1.88	0.56
2:A1:178:TYR:OH	2:A1:183:ASP:OD1	2.23	0.56
2:C1:120:GLU:HA	2:C1:123:ILE:HG12	1.86	0.56
2:D1:269:ASP:OD1	2:D1:270:ASN:N	2.39	0.56
2:E1:81:LYS:HB3	2:E1:320:MET:SD	2.45	0.56
2:E1:178:TYR:OH	2:E1:183:ASP:OD1	2.23	0.56
2:E2:15:GLN:HE21	2:E2:116:MET:HE3	1.70	0.56
2:F2:178:TYR:OH	2:F2:183:ASP:OD1	2.23	0.56
2:C3:218:LEU:HA	2:C3:245:TYR:HA	1.88	0.56
2:F3:269:ASP:OD1	2:F3:270:ASN:N	2.39	0.56
2:A4:120:GLU:HA	2:A4:123:ILE:HG12	1.87	0.56
2:C4:176:SER:HA	2:C4:212:LYS:HG2	1.87	0.56
2:F4:113:MET:HA	2:F4:116:MET:HE2	1.87	0.56
1:B:274:VAL:HG13	1:b:345:GLN:HE22	1.71	0.56
1:b:377:TYR:C	1:B1:379:GLN:HE22	2.14	0.56
1:B1:274:VAL:HG13	1:b1:345:GLN:HE22	1.70	0.56
1:b1:349:ASN:HB3	1:b1:351:TYR:HD1	1.69	0.56
1:b2:177:ILE:HD13	1:b2:204:TYR:HB3	1.88	0.56
1:B5:371:GLU:HA	1:b5:360:ARG:HH12	1.70	0.56
2:G0:15:GLN:HE21	2:G0:116:MET:HE3	1.70	0.56
2:G1:26:LEU:HD21	2:G1:277:THR:OG1	2.06	0.56
2:D2:232:VAL:HG21	2:D2:241:TYR:HB2	1.87	0.56
2:E2:81:LYS:HB3	2:E2:320:MET:SD	2.45	0.56
2:G3:178:TYR:OH	2:G3:183:ASP:OD1	2.23	0.56
2:G3:182:ASP:OD1	2:G3:183:ASP:N	2.38	0.56
2:D3:113:MET:HA	2:D3:116:MET:HE2	1.87	0.56
2:E3:176:SER:HA	2:E3:212:LYS:HG2	1.88	0.56
2:A4:176:SER:HA	2:A4:212:LYS:HG2	1.88	0.56
2:G4:176:SER:HA	2:G4:212:LYS:HG2	1.88	0.56
1:b1:176:ARG:NH2	1:b1:208:GLU:O	2.38	0.56
1:b3:377:TYR:C	1:B4:379:GLN:HE22	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B4:479:CYS:HA	1:B4:482:ARG:HG2	1.87	0.56
1:b4:177:ILE:HD13	1:b4:204:TYR:HB3	1.88	0.56
1:B5:177:ILE:HD13	1:B5:204:TYR:HB3	1.88	0.56
1:B5:377:TYR:C	1:b5:379:GLN:HE22	2.14	0.56
1:b5:176:ARG:HB3	1:b5:206:VAL:HG13	1.88	0.56
2:G0:26:LEU:HD21	2:G0:277:THR:OG1	2.06	0.56
2:C0:26:LEU:HD21	2:C0:277:THR:OG1	2.06	0.56
2:D0:62:VAL:HA	2:E0:318:PHE:HZ	1.71	0.56
2:A1:176:SER:HA	2:A1:212:LYS:HG2	1.88	0.56
2:D1:178:TYR:OH	2:D1:183:ASP:OD1	2.23	0.56
2:D1:306:LYS:HZ2	2:D1:308:TRP:CD1	2.23	0.56
2:F1:218:LEU:HA	2:F1:245:TYR:HA	1.88	0.56
2:A2:113:MET:HA	2:A2:116:MET:HE2	1.87	0.56
2:A2:120:GLU:HA	2:A2:123:ILE:HG12	1.86	0.56
2:C2:14:GLU:HB2	2:C2:16:LYS:NZ	2.20	0.56
2:D2:14:GLU:HB2	2:D2:16:LYS:NZ	2.20	0.56
2:D2:218:LEU:HA	2:D2:245:TYR:HA	1.88	0.56
2:D3:137:LYS:HG3	2:D3:139:LYS:H	1.71	0.56
2:E3:26:LEU:HD21	2:E3:277:THR:OG1	2.06	0.56
2:F3:137:LYS:HG3	2:F3:139:LYS:H	1.71	0.56
2:A4:14:GLU:HB2	2:A4:16:LYS:NZ	2.20	0.56
2:A4:269:ASP:OD1	2:A4:270:ASN:N	2.39	0.56
2:G4:14:GLU:HB2	2:G4:16:LYS:NZ	2.20	0.56
2:G4:218:LEU:HA	2:G4:245:TYR:HA	1.88	0.56
2:G4:269:ASP:OD1	2:G4:270:ASN:N	2.39	0.56
2:C4:218:LEU:HA	2:C4:245:TYR:HA	1.88	0.56
2:D4:176:SER:HA	2:D4:212:LYS:HG2	1.87	0.56
2:E4:14:GLU:HB2	2:E4:16:LYS:NZ	2.20	0.56
2:F4:176:SER:HA	2:F4:212:LYS:HG2	1.88	0.56
1:b:132:ARG:NH1	1:b:140:GLU:OE1	2.34	0.55
1:b:176:ARG:HB3	1:b:206:VAL:HG13	1.88	0.55
2:A0:218:LEU:HA	2:A0:245:TYR:HA	1.88	0.55
2:C0:15:GLN:HE21	2:C0:116:MET:HE3	1.70	0.55
2:D0:235:LEU:HA	2:D0:237:LYS:HZ3	1.72	0.55
2:C1:26:LEU:HD21	2:C1:277:THR:OG1	2.06	0.55
2:D1:176:SER:HA	2:D1:212:LYS:HG2	1.88	0.55
2:E1:181:THR:HA	2:E1:184:ILE:HD12	1.88	0.55
2:F1:15:GLN:HE21	2:F1:116:MET:HE3	1.70	0.55
2:A2:15:GLN:HE21	2:A2:116:MET:HE3	1.70	0.55
2:F2:120:GLU:HA	2:F2:123:ILE:HG12	1.87	0.55
2:F2:176:SER:HA	2:F2:212:LYS:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:232:VAL:HG21	2:A3:241:TYR:HB2	1.87	0.55
2:C3:137:LYS:HG3	2:C3:139:LYS:H	1.71	0.55
2:C3:269:ASP:OD1	2:C3:270:ASN:N	2.38	0.55
2:D3:62:VAL:HG22	2:E3:318:PHE:HZ	1.69	0.55
2:F3:181:THR:HA	2:F3:184:ILE:HD12	1.88	0.55
2:G4:137:LYS:HG3	2:G4:139:LYS:H	1.72	0.55
2:G4:232:VAL:HG21	2:G4:241:TYR:HB2	1.87	0.55
2:C4:15:GLN:HE21	2:C4:116:MET:HE3	1.70	0.55
2:D4:178:TYR:OH	2:D4:183:ASP:OD1	2.23	0.55
2:F4:120:GLU:HA	2:F4:123:ILE:HG12	1.86	0.55
1:B:176:ARG:HB3	1:B:206:VAL:HG13	1.88	0.55
1:B1:479:CYS:HA	1:B1:482:ARG:HG2	1.87	0.55
1:B2:177:ILE:HD13	1:B2:204:TYR:HB3	1.88	0.55
1:b3:160:SER:HB2	1:b3:163:ARG:HH12	1.71	0.55
2:G0:181:THR:HA	2:G0:184:ILE:HD12	1.88	0.55
2:C0:137:LYS:HG3	2:C0:139:LYS:H	1.72	0.55
2:D0:26:LEU:HD21	2:D0:277:THR:OG1	2.06	0.55
2:D0:120:GLU:HA	2:D0:123:ILE:HG12	1.87	0.55
2:E0:15:GLN:HE21	2:E0:116:MET:HE3	1.70	0.55
2:E0:137:LYS:HG3	2:E0:139:LYS:H	1.72	0.55
2:A1:30:GLU:HG3	2:A1:32:TYR:CE2	2.42	0.55
2:C1:181:THR:HA	2:C1:184:ILE:HD12	1.88	0.55
2:C1:182:ASP:OD1	2:C1:183:ASP:N	2.38	0.55
2:D1:137:LYS:HG3	2:D1:139:LYS:H	1.72	0.55
2:F1:26:LEU:HD21	2:F1:277:THR:OG1	2.06	0.55
2:G2:30:GLU:HG3	2:G2:32:TYR:CE2	2.42	0.55
2:C2:26:LEU:HD21	2:C2:277:THR:OG1	2.06	0.55
2:D2:30:GLU:HG3	2:D2:32:TYR:CE2	2.42	0.55
2:F2:161:ASN:ND2	2:F2:337:SER:OG	2.38	0.55
2:F2:181:THR:HA	2:F2:184:ILE:HD12	1.88	0.55
2:G3:232:VAL:HG21	2:G3:241:TYR:HB2	1.87	0.55
2:C3:14:GLU:HB2	2:C3:16:LYS:NZ	2.20	0.55
2:E3:182:ASP:OD1	2:E3:183:ASP:N	2.39	0.55
2:F3:26:LEU:HD21	2:F3:277:THR:OG1	2.06	0.55
2:G4:285:TYR:CD2	2:G4:302:ALA:HA	2.42	0.55
2:D4:30:GLU:HG3	2:D4:32:TYR:CE2	2.42	0.55
2:E4:182:ASP:OD1	2:E4:183:ASP:N	2.39	0.55
2:F4:15:GLN:HE21	2:F4:116:MET:HE3	1.70	0.55
1:b:492:GLN:HG2	1:B1:474:THR:HB	1.87	0.55
1:b1:148:ASN:ND2	1:b1:150:GLU:OE2	2.39	0.55
1:b3:148:ASN:ND2	1:b3:150:GLU:OE2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b3:274:VAL:HG13	1:B4:345:GLN:HE22	1.71	0.55
1:b4:148:ASN:ND2	1:b4:150:GLU:OE2	2.39	0.55
2:C0:182:ASP:OD1	2:C0:183:ASP:N	2.38	0.55
2:F0:15:GLN:HE21	2:F0:116:MET:HE3	1.70	0.55
2:A1:181:THR:HA	2:A1:184:ILE:HD12	1.88	0.55
2:G1:178:TYR:OH	2:G1:183:ASP:OD1	2.23	0.55
2:C1:113:MET:HA	2:C1:116:MET:HE2	1.87	0.55
2:E1:14:GLU:HB2	2:E1:16:LYS:NZ	2.20	0.55
2:E1:285:TYR:CD2	2:E1:302:ALA:HA	2.42	0.55
2:F1:178:TYR:OH	2:F1:183:ASP:OD1	2.23	0.55
2:F1:285:TYR:CD2	2:F1:302:ALA:HA	2.42	0.55
2:A2:276:ASN:ND2	2:G2:256:GLN:OE1	2.36	0.55
2:A2:285:TYR:CD2	2:A2:302:ALA:HA	2.42	0.55
2:E2:90:LEU:O	2:E2:92:ARG:HD3	2.07	0.55
2:F2:14:GLU:HB2	2:F2:16:LYS:NZ	2.20	0.55
2:F2:26:LEU:HD21	2:F2:277:THR:OG1	2.06	0.55
2:F2:269:ASP:OD1	2:F2:270:ASN:N	2.39	0.55
2:F2:285:TYR:CD2	2:F2:302:ALA:HA	2.42	0.55
2:A3:178:TYR:OH	2:A3:183:ASP:OD1	2.23	0.55
2:C3:30:GLU:HG3	2:C3:32:TYR:CE2	2.42	0.55
2:D3:235:LEU:HA	2:D3:237:LYS:HZ3	1.72	0.55
2:F3:14:GLU:HB2	2:F3:16:LYS:NZ	2.20	0.55
2:D4:62:VAL:HG22	2:E4:318:PHE:HZ	1.69	0.55
2:D4:62:VAL:HA	2:E4:318:PHE:HZ	1.71	0.55
2:D4:113:MET:HA	2:D4:116:MET:HE2	1.87	0.55
2:D4:276:ASN:HD22	2:E4:263:LYS:HZ3	1.54	0.55
2:D4:285:TYR:CD2	2:D4:302:ALA:HA	2.42	0.55
2:F4:285:TYR:CD2	2:F4:302:ALA:HA	2.42	0.55
1:B:133:THR:HG23	1:b:406:ARG:HH22	1.70	0.55
1:B:160:SER:HB2	1:B:163:ARG:HH12	1.71	0.55
1:b2:265:GLN:HE21	1:B3:259:LYS:HZ2	1.54	0.55
1:b2:492:GLN:HG2	1:B3:474:THR:HB	1.87	0.55
1:B3:177:ILE:HD13	1:B3:204:TYR:HB3	1.88	0.55
1:b5:177:ILE:HD13	1:b5:204:TYR:HB3	1.88	0.55
2:G0:137:LYS:HG3	2:G0:139:LYS:H	1.72	0.55
2:G0:154:MET:N	2:G0:154:MET:SD	2.80	0.55
2:C0:178:TYR:OH	2:C0:183:ASP:OD1	2.23	0.55
2:D0:176:SER:HA	2:D0:212:LYS:HG2	1.88	0.55
2:D0:225:ASN:HA	2:E0:242:LYS:HZ2	1.70	0.55
2:F0:26:LEU:HD21	2:F0:277:THR:OG1	2.06	0.55
2:F0:178:TYR:OH	2:F0:183:ASP:OD1	2.23	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:113:MET:HA	2:A1:116:MET:HE2	1.87	0.55
2:G1:137:LYS:HG3	2:G1:139:LYS:H	1.72	0.55
2:G1:285:TYR:CD2	2:G1:302:ALA:HA	2.42	0.55
2:E1:30:GLU:HG3	2:E1:32:TYR:CE2	2.42	0.55
2:E1:113:MET:HA	2:E1:116:MET:HE2	1.87	0.55
2:F1:90:LEU:O	2:F1:92:ARG:HD3	2.07	0.55
2:F1:232:VAL:HG21	2:F1:241:TYR:HB2	1.87	0.55
2:A2:14:GLU:HB2	2:A2:16:LYS:NZ	2.20	0.55
2:G2:232:VAL:HG21	2:G2:241:TYR:HB2	1.87	0.55
2:C2:30:GLU:HG3	2:C2:32:TYR:CE2	2.42	0.55
2:C2:178:TYR:OH	2:C2:183:ASP:OD1	2.23	0.55
2:D2:90:LEU:O	2:D2:92:ARG:HD3	2.07	0.55
2:E2:285:TYR:CD2	2:E2:302:ALA:HA	2.42	0.55
2:F2:81:LYS:HB3	2:F2:320:MET:SD	2.45	0.55
2:G3:137:LYS:HG3	2:G3:139:LYS:H	1.71	0.55
2:C3:26:LEU:HD21	2:C3:277:THR:OG1	2.06	0.55
2:D3:176:SER:HA	2:D3:212:LYS:HG2	1.87	0.55
2:D3:285:TYR:CD2	2:D3:302:ALA:HA	2.42	0.55
2:E3:90:LEU:O	2:E3:92:ARG:HD3	2.07	0.55
2:E3:137:LYS:HG3	2:E3:139:LYS:H	1.72	0.55
2:E3:181:THR:HA	2:E3:184:ILE:HD12	1.88	0.55
2:E3:232:VAL:HG21	2:E3:241:TYR:HB2	1.87	0.55
2:A4:182:ASP:OD1	2:A4:183:ASP:N	2.38	0.55
2:A4:218:LEU:HA	2:A4:245:TYR:HA	1.88	0.55
2:G4:181:THR:HA	2:G4:184:ILE:HD12	1.88	0.55
2:C4:194:VAL:HG11	2:D4:240:SER:HB3	1.89	0.55
2:D4:15:GLN:HE21	2:D4:116:MET:HE3	1.70	0.55
2:D4:137:LYS:HG3	2:D4:139:LYS:H	1.72	0.55
2:E4:176:SER:HA	2:E4:212:LYS:HG2	1.88	0.55
2:E4:269:ASP:OD1	2:E4:270:ASN:N	2.39	0.55
2:F4:235:LEU:HA	2:F4:237:LYS:HZ3	1.72	0.55
1:b2:132:ARG:NH1	1:b2:140:GLU:OE1	2.34	0.55
2:D0:285:TYR:CD2	2:D0:302:ALA:HA	2.42	0.55
2:F0:30:GLU:HG3	2:F0:32:TYR:CE2	2.42	0.55
2:F0:90:LEU:O	2:F0:92:ARG:HD3	2.07	0.55
2:A1:232:VAL:HG21	2:A1:241:TYR:HB2	1.87	0.55
2:C1:154:MET:N	2:C1:154:MET:SD	2.80	0.55
2:C1:285:TYR:CD2	2:C1:302:ALA:HA	2.42	0.55
2:D1:218:LEU:HA	2:D1:245:TYR:HA	1.88	0.55
2:E1:90:LEU:O	2:E1:92:ARG:HD3	2.07	0.55
2:E1:100:ASN:O	2:E1:106:TYR:HB3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:30:GLU:HG3	2:A2:32:TYR:CE2	2.42	0.55
2:A2:176:SER:HA	2:A2:212:LYS:HG2	1.88	0.55
2:E2:90:LEU:HB3	2:E2:110:ARG:NH1	2.22	0.55
2:G3:15:GLN:HE21	2:G3:116:MET:HE3	1.70	0.55
2:G3:154:MET:N	2:G3:154:MET:SD	2.80	0.55
2:G3:285:TYR:CD2	2:G3:302:ALA:HA	2.42	0.55
2:C3:181:THR:HA	2:C3:184:ILE:HD12	1.88	0.55
2:E3:90:LEU:HB3	2:E3:110:ARG:NH1	2.22	0.55
2:G4:90:LEU:HB3	2:G4:110:ARG:NH1	2.22	0.55
2:C4:90:LEU:HB3	2:C4:110:ARG:NH1	2.22	0.55
2:C4:137:LYS:HG3	2:C4:139:LYS:H	1.72	0.55
2:C4:285:TYR:CD2	2:C4:302:ALA:HA	2.42	0.55
2:D4:218:LEU:HA	2:D4:245:TYR:HA	1.88	0.55
2:D4:232:VAL:HG21	2:D4:241:TYR:HB2	1.87	0.55
2:E4:90:LEU:O	2:E4:92:ARG:HD3	2.07	0.55
2:E4:154:MET:N	2:E4:154:MET:SD	2.80	0.55
1:b1:399:ARG:O	1:b1:403:VAL:HG22	2.07	0.55
1:B2:160:SER:HB2	1:B2:163:ARG:HH12	1.71	0.55
1:B3:132:ARG:NH1	1:B3:140:GLU:OE1	2.34	0.55
1:B4:177:ILE:HD13	1:B4:204:TYR:HB3	1.88	0.55
1:b4:399:ARG:O	1:b4:403:VAL:HG22	2.07	0.55
1:b5:479:CYS:HA	1:b5:482:ARG:HG2	1.87	0.55
2:A0:30:GLU:HG3	2:A0:32:TYR:CE2	2.42	0.55
2:A0:90:LEU:HB3	2:A0:110:ARG:NH1	2.22	0.55
2:D0:90:LEU:HB3	2:D0:110:ARG:NH1	2.22	0.55
2:F0:90:LEU:HB3	2:F0:110:ARG:NH1	2.22	0.55
2:F0:285:TYR:CD2	2:F0:302:ALA:HA	2.42	0.55
2:G1:154:MET:SD	2:G1:154:MET:N	2.80	0.55
2:F1:30:GLU:HG3	2:F1:32:TYR:CE2	2.42	0.55
2:F1:90:LEU:HG	2:F1:111:ILE:HD13	1.89	0.55
2:F1:176:SER:HA	2:F1:212:LYS:HG2	1.88	0.55
2:A2:90:LEU:O	2:A2:92:ARG:HD3	2.07	0.55
2:A2:154:MET:N	2:A2:154:MET:SD	2.80	0.55
2:A2:181:THR:HA	2:A2:184:ILE:HD12	1.88	0.55
2:A2:232:VAL:HG21	2:A2:241:TYR:HB2	1.87	0.55
2:A2:235:LEU:HA	2:A2:237:LYS:HZ3	1.71	0.55
2:G2:90:LEU:O	2:G2:92:ARG:HD3	2.07	0.55
2:D2:182:ASP:OD1	2:D2:183:ASP:N	2.39	0.55
2:E2:26:LEU:HD21	2:E2:277:THR:OG1	2.06	0.55
2:F2:232:VAL:HG21	2:F2:241:TYR:HB2	1.87	0.55
2:G3:100:ASN:O	2:G3:106:TYR:HB3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G3:269:ASP:OD1	2:G3:270:ASN:N	2.39	0.55
2:C3:285:TYR:CD2	2:C3:302:ALA:HA	2.42	0.55
2:C3:308:TRP:NE1	2:C3:320:MET:HB2	2.20	0.55
2:F3:285:TYR:CD2	2:F3:302:ALA:HA	2.42	0.55
2:G4:30:GLU:HG3	2:G4:32:TYR:CE2	2.42	0.55
2:C4:90:LEU:O	2:C4:92:ARG:HD3	2.07	0.55
2:D4:14:GLU:HB2	2:D4:16:LYS:NZ	2.20	0.55
2:F4:90:LEU:HB3	2:F4:110:ARG:NH1	2.22	0.55
2:F4:90:LEU:HG	2:F4:111:ILE:HD13	1.89	0.55
2:F4:137:LYS:HG3	2:F4:139:LYS:H	1.72	0.55
2:F4:218:LEU:HA	2:F4:245:TYR:HA	1.88	0.55
2:F4:269:ASP:OD1	2:F4:270:ASN:N	2.39	0.55
1:B:177:ILE:HD13	1:B:204:TYR:HB3	1.88	0.55
1:B1:399:ARG:O	1:B1:403:VAL:HG22	2.07	0.55
1:b1:492:GLN:HG2	1:B2:474:THR:HB	1.87	0.55
2:G0:30:GLU:HG3	2:G0:32:TYR:CE2	2.42	0.55
2:C0:200:PHE:HB2	2:C0:205:TRP:HB2	1.89	0.55
2:C0:285:TYR:CD2	2:C0:302:ALA:HA	2.42	0.55
2:D0:90:LEU:O	2:D0:92:ARG:HD3	2.07	0.55
2:F0:218:LEU:HA	2:F0:245:TYR:HA	1.88	0.55
2:A1:90:LEU:O	2:A1:92:ARG:HD3	2.07	0.55
2:A1:90:LEU:HB3	2:A1:110:ARG:NH1	2.22	0.55
2:A1:154:MET:N	2:A1:154:MET:SD	2.80	0.55
2:G1:15:GLN:HE21	2:G1:116:MET:HE3	1.70	0.55
2:G1:90:LEU:O	2:G1:92:ARG:HD3	2.07	0.55
2:C1:15:GLN:HE21	2:C1:116:MET:HE3	1.70	0.55
2:D1:62:VAL:HA	2:E1:318:PHE:HZ	1.71	0.55
2:D1:90:LEU:HB3	2:D1:110:ARG:NH1	2.22	0.55
2:A2:43:GLN:NE2	2:G2:88:MET:SD	2.80	0.55
2:G2:15:GLN:HE21	2:G2:116:MET:HE3	1.70	0.55
2:G2:90:LEU:HB3	2:G2:110:ARG:NH1	2.22	0.55
2:G2:137:LYS:HG3	2:G2:139:LYS:H	1.71	0.55
2:C2:90:LEU:HG	2:C2:111:ILE:HD13	1.89	0.55
2:C2:285:TYR:CD2	2:C2:302:ALA:HA	2.42	0.55
2:D2:90:LEU:HG	2:D2:111:ILE:HD13	1.89	0.55
2:D2:181:THR:HA	2:D2:184:ILE:HD12	1.88	0.55
2:E2:181:THR:HA	2:E2:184:ILE:HD12	1.88	0.55
2:A3:26:LEU:HD21	2:A3:277:THR:OG1	2.06	0.55
2:A3:30:GLU:HG3	2:A3:32:TYR:CE2	2.42	0.55
2:A3:154:MET:N	2:A3:154:MET:SD	2.80	0.55
2:G3:90:LEU:HB3	2:G3:110:ARG:NH1	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:90:LEU:HG	2:C3:111:ILE:HD13	1.89	0.55
2:E3:120:GLU:HA	2:E3:123:ILE:HG12	1.87	0.55
2:E3:154:MET:SD	2:E3:154:MET:N	2.80	0.55
2:A4:90:LEU:O	2:A4:92:ARG:HD3	2.07	0.55
2:G4:26:LEU:HD21	2:G4:277:THR:OG1	2.06	0.55
2:D4:200:PHE:HB2	2:D4:205:TRP:HB2	1.89	0.55
2:E4:285:TYR:CD2	2:E4:302:ALA:HA	2.42	0.55
2:F4:100:ASN:O	2:F4:106:TYR:HB3	2.07	0.55
2:F4:181:THR:HA	2:F4:184:ILE:HD12	1.88	0.55
2:F4:182:ASP:OD1	2:F4:183:ASP:N	2.38	0.55
1:b2:376:ASN:OD1	1:B3:360:ARG:CZ	2.55	0.55
1:B3:160:SER:HB2	1:B3:163:ARG:HH12	1.71	0.55
1:b4:133:THR:HG23	1:B5:406:ARG:HH22	1.71	0.55
2:C0:90:LEU:O	2:C0:92:ARG:HD3	2.07	0.55
2:C0:100:ASN:O	2:C0:106:TYR:HB3	2.07	0.55
2:C0:154:MET:N	2:C0:154:MET:SD	2.80	0.55
2:D0:200:PHE:HB2	2:D0:205:TRP:HB2	1.89	0.55
2:D0:218:LEU:HA	2:D0:245:TYR:HA	1.88	0.55
2:F0:154:MET:N	2:F0:154:MET:SD	2.80	0.55
2:G1:30:GLU:HG3	2:G1:32:TYR:CE2	2.42	0.55
2:C1:100:ASN:O	2:C1:106:TYR:HB3	2.07	0.55
2:C1:137:LYS:HG3	2:C1:139:LYS:H	1.71	0.55
2:D1:30:GLU:HG3	2:D1:32:TYR:CE2	2.42	0.55
2:E1:232:VAL:HG21	2:E1:241:TYR:HB2	1.87	0.55
2:F1:154:MET:N	2:F1:154:MET:SD	2.80	0.55
2:G2:26:LEU:HD21	2:G2:277:THR:OG1	2.06	0.55
2:D2:178:TYR:OH	2:D2:183:ASP:OD1	2.23	0.55
2:E2:182:ASP:OD1	2:E2:183:ASP:N	2.39	0.55
2:F2:137:LYS:HG3	2:F2:139:LYS:H	1.72	0.55
2:A3:43:GLN:NE2	2:G3:88:MET:SD	2.80	0.55
2:A3:240:SER:HB3	2:F3:194:VAL:HG21	1.88	0.55
2:G3:26:LEU:HD21	2:G3:277:THR:OG1	2.06	0.55
2:C3:176:SER:HA	2:C3:212:LYS:HG2	1.88	0.55
2:E3:90:LEU:HG	2:E3:111:ILE:HD13	1.89	0.55
2:E3:218:LEU:HA	2:E3:245:TYR:HA	1.88	0.55
2:A4:26:LEU:HD21	2:A4:277:THR:OG1	2.06	0.55
2:A4:33:PRO:CG	2:G4:92:ARG:NH2	2.65	0.55
2:A4:154:MET:N	2:A4:154:MET:SD	2.80	0.55
2:A4:285:TYR:CD2	2:A4:302:ALA:HA	2.42	0.55
2:C4:30:GLU:HG3	2:C4:32:TYR:CE2	2.42	0.55
2:C4:154:MET:N	2:C4:154:MET:SD	2.80	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E4:26:LEU:HD21	2:E4:277:THR:OG1	2.06	0.55
2:E4:137:LYS:HG3	2:E4:139:LYS:H	1.72	0.55
1:b1:160:SER:HB2	1:b1:163:ARG:HH12	1.71	0.55
1:B2:399:ARG:O	1:B2:403:VAL:HG22	2.07	0.55
1:b2:129:GLU:HG3	1:b2:131:LYS:HE2	1.89	0.55
1:B4:129:GLU:HG3	1:B4:131:LYS:HE2	1.89	0.55
1:B5:399:ARG:O	1:B5:403:VAL:HG22	2.07	0.55
2:A0:43:GLN:NE2	2:G0:88:MET:SD	2.80	0.55
2:G0:90:LEU:HG	2:G0:111:ILE:HD13	1.89	0.55
2:E0:90:LEU:O	2:E0:92:ARG:HD3	2.07	0.55
2:E0:181:THR:HA	2:E0:184:ILE:HD12	1.89	0.55
2:E0:285:TYR:CD2	2:E0:302:ALA:HA	2.42	0.55
2:E0:308:TRP:NE1	2:E0:320:MET:HB2	2.20	0.55
2:G1:181:THR:HA	2:G1:184:ILE:HD12	1.88	0.55
2:G1:182:ASP:OD1	2:G1:183:ASP:N	2.38	0.55
2:G1:200:PHE:HB2	2:G1:205:TRP:HB2	1.89	0.55
2:C1:30:GLU:HG3	2:C1:32:TYR:CE2	2.42	0.55
2:D1:15:GLN:HE21	2:D1:116:MET:HE3	1.70	0.55
2:D1:100:ASN:O	2:D1:106:TYR:HB3	2.07	0.55
2:D1:154:MET:SD	2:D1:154:MET:N	2.80	0.55
2:E1:26:LEU:HD21	2:E1:277:THR:OG1	2.06	0.55
2:E1:218:LEU:HA	2:E1:245:TYR:HA	1.88	0.55
2:F1:181:THR:HA	2:F1:184:ILE:HD12	1.88	0.55
2:A2:90:LEU:HG	2:A2:111:ILE:HD13	1.89	0.55
2:G2:200:PHE:HB2	2:G2:205:TRP:HB2	1.89	0.55
2:C2:154:MET:SD	2:C2:154:MET:N	2.80	0.55
2:F2:90:LEU:O	2:F2:92:ARG:HD3	2.07	0.55
2:G3:181:THR:HA	2:G3:184:ILE:HD12	1.88	0.55
2:G3:235:LEU:HA	2:G3:237:LYS:HZ3	1.71	0.55
2:D3:15:GLN:HE21	2:D3:116:MET:HE3	1.70	0.55
2:D3:62:VAL:HA	2:E3:318:PHE:HZ	1.71	0.55
2:E3:285:TYR:CD2	2:E3:302:ALA:HA	2.42	0.55
2:F3:90:LEU:O	2:F3:92:ARG:HD3	2.07	0.55
2:E4:30:GLU:HG3	2:E4:32:TYR:CE2	2.42	0.55
2:E4:181:THR:HA	2:E4:184:ILE:HD12	1.88	0.55
1:b:160:SER:HB2	1:b:163:ARG:HH12	1.71	0.55
1:b:177:ILE:HD13	1:b:204:TYR:HB3	1.88	0.55
1:B3:133:THR:HG23	1:b3:406:ARG:HH22	1.72	0.55
1:b5:259:LYS:NZ	1:b5:260:MET:HE3	2.15	0.55
2:A0:154:MET:N	2:A0:154:MET:SD	2.80	0.55
2:A0:308:TRP:CH2	2:D1:313:ASP:HA	2.43	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G0:200:PHE:HB2	2:G0:205:TRP:HB2	1.89	0.55
2:G0:232:VAL:HG21	2:G0:241:TYR:HB2	1.87	0.55
2:G0:235:LEU:HA	2:G0:237:LYS:HZ3	1.72	0.55
2:D0:30:GLU:HG3	2:D0:32:TYR:CE2	2.42	0.55
2:D0:100:ASN:O	2:D0:106:TYR:HB3	2.07	0.55
2:E0:30:GLU:HG3	2:E0:32:TYR:CE2	2.42	0.55
2:E0:154:MET:SD	2:E0:154:MET:N	2.80	0.55
2:F0:137:LYS:HG3	2:F0:139:LYS:H	1.72	0.55
2:F0:232:VAL:HG21	2:F0:241:TYR:HB2	1.87	0.55
2:F0:308:TRP:NE1	2:F0:320:MET:HB2	2.20	0.55
2:D1:26:LEU:HD21	2:D1:277:THR:OG1	2.06	0.55
2:D1:200:PHE:HB2	2:D1:205:TRP:HB2	1.89	0.55
2:G2:154:MET:N	2:G2:154:MET:SD	2.80	0.55
2:G2:176:SER:HA	2:G2:212:LYS:HG2	1.87	0.55
2:C2:90:LEU:O	2:C2:92:ARG:HD3	2.07	0.55
2:C2:181:THR:HA	2:C2:184:ILE:HD12	1.88	0.55
2:C2:269:ASP:OD1	2:C2:270:ASN:N	2.39	0.55
2:D2:62:VAL:HA	2:E2:318:PHE:HZ	1.71	0.55
2:D2:137:LYS:HG3	2:D2:139:LYS:H	1.71	0.55
2:D2:269:ASP:OD1	2:D2:270:ASN:N	2.39	0.55
2:D2:285:TYR:CD2	2:D2:302:ALA:HA	2.42	0.55
2:E2:218:LEU:HA	2:E2:245:TYR:HA	1.88	0.55
2:F2:200:PHE:HB2	2:F2:205:TRP:HB2	1.89	0.55
2:A3:182:ASP:OD1	2:A3:183:ASP:N	2.39	0.55
2:G3:90:LEU:O	2:G3:92:ARG:HD3	2.07	0.55
2:D3:90:LEU:O	2:D3:92:ARG:HD3	2.07	0.55
2:D3:178:TYR:OH	2:D3:183:ASP:OD1	2.23	0.55
2:A4:240:SER:HB3	2:F4:194:VAL:HG21	1.88	0.55
2:G4:15:GLN:HE21	2:G4:116:MET:HE3	1.70	0.55
2:G4:90:LEU:O	2:G4:92:ARG:HD3	2.07	0.55
2:C4:100:ASN:O	2:C4:106:TYR:HB3	2.07	0.55
2:F4:154:MET:N	2:F4:154:MET:SD	2.80	0.55
2:F4:308:TRP:NE1	2:F4:320:MET:HB2	2.20	0.55
1:b:399:ARG:O	1:b:403:VAL:HG22	2.07	0.54
1:b1:177:ILE:HD13	1:b1:204:TYR:HB3	1.88	0.54
1:B2:108:SER:HA	1:B2:111:VAL:HG22	1.89	0.54
1:b2:108:SER:HA	1:b2:111:VAL:HG22	1.89	0.54
2:A0:200:PHE:HB2	2:A0:205:TRP:HB2	1.89	0.54
2:G0:285:TYR:CD2	2:G0:302:ALA:HA	2.42	0.54
2:A1:26:LEU:HD21	2:A1:277:THR:OG1	2.06	0.54
2:A1:285:TYR:CD2	2:A1:302:ALA:HA	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G1:90:LEU:HB3	2:G1:110:ARG:NH1	2.22	0.54
2:C1:90:LEU:HG	2:C1:111:ILE:HD13	1.89	0.54
2:D1:62:VAL:HG22	2:E1:318:PHE:HZ	1.69	0.54
2:D1:90:LEU:HG	2:D1:111:ILE:HD13	1.89	0.54
2:D1:181:THR:HA	2:D1:184:ILE:HD12	1.88	0.54
2:D1:285:TYR:CD2	2:D1:302:ALA:HA	2.42	0.54
2:E1:15:GLN:HE21	2:E1:116:MET:HE3	1.70	0.54
2:E1:90:LEU:HB3	2:E1:110:ARG:NH1	2.22	0.54
2:F1:90:LEU:HB3	2:F1:110:ARG:NH1	2.22	0.54
2:F1:137:LYS:HG3	2:F1:139:LYS:H	1.72	0.54
2:A2:291:ALA:H	2:D3:316:ARG:NH1	2.05	0.54
2:G2:90:LEU:HG	2:G2:111:ILE:HD13	1.89	0.54
2:C2:137:LYS:HG3	2:C2:139:LYS:H	1.72	0.54
2:E2:137:LYS:HG3	2:E2:139:LYS:H	1.72	0.54
2:A3:33:PRO:CG	2:G3:92:ARG:NH2	2.65	0.54
2:A3:90:LEU:O	2:A3:92:ARG:HD3	2.07	0.54
2:G3:176:SER:HA	2:G3:212:LYS:HG2	1.87	0.54
2:C3:100:ASN:O	2:C3:106:TYR:HB3	2.07	0.54
2:D3:232:VAL:HG21	2:D3:241:TYR:HB2	1.87	0.54
2:E3:30:GLU:HG3	2:E3:32:TYR:CE2	2.42	0.54
2:F3:218:LEU:HA	2:F3:245:TYR:HA	1.88	0.54
2:F3:308:TRP:NE1	2:F3:320:MET:HB2	2.20	0.54
2:A4:30:GLU:HG3	2:A4:32:TYR:CE2	2.42	0.54
2:A4:100:ASN:O	2:A4:106:TYR:HB3	2.07	0.54
2:G4:154:MET:SD	2:G4:154:MET:N	2.80	0.54
2:D4:100:ASN:O	2:D4:106:TYR:HB3	2.07	0.54
2:F4:90:LEU:O	2:F4:92:ARG:HD3	2.07	0.54
1:B:492:GLN:HG2	1:b:474:THR:HB	1.88	0.54
1:B1:436:GLN:OE1	1:B1:439:ARG:NH2	2.25	0.54
1:b2:399:ARG:O	1:b2:403:VAL:HG22	2.07	0.54
1:B4:36:ARG:HD3	2:G3:295:ARG:O	2.07	0.54
1:B4:148:ASN:ND2	1:B4:150:GLU:OE2	2.39	0.54
1:B4:376:ASN:OD1	1:b4:360:ARG:CZ	2.55	0.54
1:B4:399:ARG:O	1:B4:403:VAL:HG22	2.07	0.54
1:b5:129:GLU:HG3	1:b5:131:LYS:HE2	1.89	0.54
2:A0:26:LEU:HD21	2:A0:277:THR:OG1	2.06	0.54
2:A0:178:TYR:OH	2:A0:183:ASP:OD1	2.23	0.54
2:C0:90:LEU:HB3	2:C0:110:ARG:NH1	2.22	0.54
2:D0:316:ARG:NH1	2:A4:291:ALA:H	2.06	0.54
2:E0:26:LEU:HD21	2:E0:277:THR:OG1	2.06	0.54
2:E0:100:ASN:O	2:E0:106:TYR:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G1:176:SER:HA	2:G1:212:LYS:HG2	1.87	0.54
2:C1:90:LEU:O	2:C1:92:ARG:HD3	2.07	0.54
2:C1:194:VAL:HG11	2:D1:240:SER:HB3	1.89	0.54
2:A2:90:LEU:HB3	2:A2:110:ARG:NH1	2.22	0.54
2:A2:100:ASN:O	2:A2:106:TYR:HB3	2.07	0.54
2:A2:137:LYS:HG3	2:A2:139:LYS:H	1.71	0.54
2:G2:182:ASP:OD1	2:G2:183:ASP:N	2.39	0.54
2:C2:200:PHE:HB2	2:C2:205:TRP:HB2	1.89	0.54
2:F2:90:LEU:HB3	2:F2:110:ARG:NH1	2.22	0.54
2:A3:176:SER:HA	2:A3:212:LYS:HG2	1.88	0.54
2:D3:30:GLU:HG3	2:D3:32:TYR:CE2	2.42	0.54
2:D4:308:TRP:NE1	2:D4:320:MET:HB2	2.20	0.54
2:F4:26:LEU:HD21	2:F4:277:THR:OG1	2.06	0.54
1:b2:160:SER:HB2	1:b2:163:ARG:HH12	1.71	0.54
1:B3:376:ASN:OD1	1:b3:360:ARG:CZ	2.55	0.54
1:b3:170:ARG:NH2	1:B4:198:SER:O	2.36	0.54
1:B5:492:GLN:HG2	1:b5:474:THR:HB	1.88	0.54
2:G0:90:LEU:HB3	2:G0:110:ARG:NH1	2.22	0.54
2:C0:30:GLU:HG3	2:C0:32:TYR:CE2	2.42	0.54
2:C0:176:SER:HA	2:C0:212:LYS:HG2	1.87	0.54
2:C0:269:ASP:OD1	2:C0:270:ASN:N	2.39	0.54
2:D0:154:MET:N	2:D0:154:MET:SD	2.80	0.54
2:F0:100:ASN:O	2:F0:106:TYR:HB3	2.07	0.54
2:A1:137:LYS:HG3	2:A1:139:LYS:H	1.72	0.54
2:D1:90:LEU:O	2:D1:92:ARG:HD3	2.07	0.54
2:E1:137:LYS:HG3	2:E1:139:LYS:H	1.71	0.54
2:A2:26:LEU:HD21	2:A2:277:THR:OG1	2.06	0.54
2:G2:308:TRP:NE1	2:G2:320:MET:HB2	2.20	0.54
2:C2:194:VAL:HG11	2:D2:240:SER:HB3	1.89	0.54
2:C2:308:TRP:NE1	2:C2:320:MET:HB2	2.20	0.54
2:E2:30:GLU:HG3	2:E2:32:TYR:CE2	2.42	0.54
2:A3:100:ASN:O	2:A3:106:TYR:HB3	2.07	0.54
2:A3:235:LEU:HA	2:A3:237:LYS:HZ3	1.72	0.54
2:A3:291:ALA:H	2:D4:316:ARG:NH1	2.05	0.54
2:G3:30:GLU:HG3	2:G3:32:TYR:CE2	2.42	0.54
2:D3:26:LEU:HD21	2:D3:277:THR:OG1	2.06	0.54
2:D3:154:MET:N	2:D3:154:MET:SD	2.80	0.54
2:F3:100:ASN:O	2:F3:106:TYR:HB3	2.07	0.54
2:F3:200:PHE:HB2	2:F3:205:TRP:HB2	1.89	0.54
2:C4:26:LEU:HD21	2:C4:277:THR:OG1	2.06	0.54
2:C4:90:LEU:HG	2:C4:111:ILE:HD13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C4:269:ASP:OD1	2:C4:270:ASN:N	2.39	0.54
2:D4:26:LEU:HD21	2:D4:277:THR:OG1	2.06	0.54
2:D4:90:LEU:O	2:D4:92:ARG:HD3	2.07	0.54
2:D4:154:MET:SD	2:D4:154:MET:N	2.80	0.54
1:B:317:TYR:CE2	1:b:334:MET:SD	3.01	0.54
1:B1:160:SER:HB2	1:B1:163:ARG:HH12	1.71	0.54
1:B1:177:ILE:HD13	1:B1:204:TYR:HB3	1.88	0.54
2:D0:181:THR:HA	2:D0:184:ILE:HD12	1.89	0.54
2:D0:313:ASP:HA	2:A4:308:TRP:CH2	2.43	0.54
2:E0:269:ASP:OD1	2:E0:270:ASN:N	2.39	0.54
2:A1:291:ALA:H	2:D2:316:ARG:NH1	2.05	0.54
2:A1:308:TRP:CH2	2:D2:313:ASP:HA	2.43	0.54
2:C1:218:LEU:HA	2:C1:245:TYR:HA	1.88	0.54
2:E1:200:PHE:HB2	2:E1:205:TRP:HB2	1.89	0.54
2:G2:100:ASN:O	2:G2:106:TYR:HB3	2.07	0.54
2:D2:26:LEU:HD21	2:D2:277:THR:OG1	2.06	0.54
2:E2:232:VAL:HG21	2:E2:241:TYR:HB2	1.87	0.54
2:F2:154:MET:SD	2:F2:154:MET:N	2.80	0.54
2:A3:285:TYR:CD2	2:A3:302:ALA:HA	2.42	0.54
2:C3:90:LEU:O	2:C3:92:ARG:HD3	2.07	0.54
2:D3:200:PHE:HB2	2:D3:205:TRP:HB2	1.89	0.54
2:F3:154:MET:N	2:F3:154:MET:SD	2.80	0.54
2:A4:90:LEU:HB3	2:A4:110:ARG:NH1	2.22	0.54
2:G4:100:ASN:O	2:G4:106:TYR:HB3	2.07	0.54
2:D4:181:THR:HA	2:D4:184:ILE:HD12	1.89	0.54
2:E4:90:LEU:HG	2:E4:111:ILE:HD13	1.89	0.54
2:F4:30:GLU:HG3	2:F4:32:TYR:CE2	2.42	0.54
1:B:65:ARG:NH2	1:b:41:PRO:HD2	2.23	0.54
1:B1:129:GLU:HG3	1:B1:131:LYS:HE2	1.89	0.54
1:b1:108:SER:HA	1:b1:111:VAL:HG22	1.89	0.54
1:B3:108:SER:HA	1:B3:111:VAL:HG22	1.89	0.54
1:b3:177:ILE:HD13	1:b3:204:TYR:HB3	1.88	0.54
1:b4:129:GLU:HG3	1:b4:131:LYS:HE2	1.89	0.54
2:A0:100:ASN:O	2:A0:106:TYR:HB3	2.07	0.54
2:A0:240:SER:HB3	2:F0:194:VAL:HG21	1.88	0.54
2:C0:181:THR:HA	2:C0:184:ILE:HD12	1.88	0.54
2:A1:90:LEU:HG	2:A1:111:ILE:HD13	1.89	0.54
2:G1:90:LEU:HG	2:G1:111:ILE:HD13	1.89	0.54
2:E1:114:GLN:O	2:E1:117:ARG:HG2	2.08	0.54
2:A2:218:LEU:HA	2:A2:245:TYR:HA	1.88	0.54
2:C2:90:LEU:HB3	2:C2:110:ARG:NH1	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:100:ASN:O	2:C2:106:TYR:HB3	2.07	0.54
2:C2:246:GLY:O	2:D2:222:ARG:NH1	2.30	0.54
2:D2:90:LEU:HB3	2:D2:110:ARG:NH1	2.22	0.54
2:F2:30:GLU:HG3	2:F2:32:TYR:CE2	2.42	0.54
2:C3:90:LEU:HB3	2:C3:110:ARG:NH1	2.22	0.54
2:C3:154:MET:N	2:C3:154:MET:SD	2.80	0.54
2:D3:114:GLN:O	2:D3:117:ARG:HG2	2.08	0.54
2:F3:90:LEU:HG	2:F3:111:ILE:HD13	1.89	0.54
2:A4:137:LYS:HG3	2:A4:139:LYS:H	1.72	0.54
2:E4:218:LEU:HA	2:E4:245:TYR:HA	1.88	0.54
1:B2:129:GLU:HG3	1:B2:131:LYS:HE2	1.89	0.54
1:B2:492:GLN:HG2	1:b2:474:THR:HB	1.89	0.54
1:b3:129:GLU:HG3	1:b3:131:LYS:HE2	1.89	0.54
1:b3:376:ASN:OD1	1:B4:360:ARG:CZ	2.55	0.54
1:B5:476:GLU:HG2	1:B5:477:LYS:N	2.23	0.54
2:A0:285:TYR:CD2	2:A0:302:ALA:HA	2.42	0.54
2:G0:90:LEU:O	2:G0:92:ARG:HD3	2.07	0.54
2:E0:182:ASP:OD1	2:E0:183:ASP:N	2.39	0.54
2:E0:218:LEU:HA	2:E0:245:TYR:HA	1.88	0.54
2:A1:43:GLN:NE2	2:G1:88:MET:SD	2.80	0.54
2:C1:114:GLN:O	2:C1:117:ARG:HG2	2.08	0.54
2:A2:182:ASP:OD1	2:A2:183:ASP:N	2.38	0.54
2:D2:114:GLN:O	2:D2:117:ARG:HG2	2.08	0.54
2:E2:63:ILE:HD13	2:F2:82:HIS:CE1	2.43	0.54
2:E2:154:MET:N	2:E2:154:MET:SD	2.80	0.54
2:G3:90:LEU:HG	2:G3:111:ILE:HD13	1.89	0.54
2:C4:182:ASP:OD1	2:C4:183:ASP:N	2.39	0.54
2:E4:100:ASN:O	2:E4:106:TYR:HB3	2.07	0.54
1:B:211:TYR:O	1:b:190:ARG:NH1	2.40	0.54
1:b2:178:SER:OG	1:b2:219:TRP:NE1	2.39	0.54
1:B3:274:VAL:HG13	1:b3:345:GLN:HE22	1.72	0.54
1:b4:361:TYR:HD2	1:b4:362:ILE:HG13	1.73	0.54
1:b4:476:GLU:HG2	1:b4:477:LYS:N	2.23	0.54
2:A0:291:ALA:H	2:D1:316:ARG:NH1	2.06	0.54
2:D0:137:LYS:HG3	2:D0:139:LYS:H	1.71	0.54
2:E0:90:LEU:HB3	2:E0:110:ARG:NH1	2.22	0.54
2:A1:240:SER:HB3	2:F1:194:VAL:HG21	1.89	0.54
2:G1:114:GLN:O	2:G1:117:ARG:HG2	2.08	0.54
2:A2:269:ASP:OD1	2:A2:270:ASN:N	2.39	0.54
2:F2:218:LEU:HA	2:F2:245:TYR:HA	1.88	0.54
2:A3:194:VAL:N	2:G3:263:LYS:HZ1	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:194:VAL:N	2:G3:263:LYS:NZ	2.56	0.54
2:G3:200:PHE:HB2	2:G3:205:TRP:HB2	1.89	0.54
2:D3:100:ASN:O	2:D3:106:TYR:HB3	2.07	0.54
2:D3:181:THR:HA	2:D3:184:ILE:HD12	1.88	0.54
2:D3:182:ASP:OD1	2:D3:183:ASP:N	2.39	0.54
2:A4:43:GLN:NE2	2:G4:88:MET:SD	2.80	0.54
2:D4:302:ALA:O	2:D4:303:ARG:HD3	2.08	0.54
2:F4:114:GLN:O	2:F4:117:ARG:HG2	2.08	0.54
1:B:399:ARG:O	1:B:403:VAL:HG22	2.07	0.54
1:B:457:GLY:O	1:B:461:VAL:HG13	2.08	0.54
1:B3:399:ARG:O	1:B3:403:VAL:HG22	2.07	0.54
1:b5:399:ARG:O	1:b5:403:VAL:HG22	2.07	0.54
1:b5:457:GLY:O	1:b5:461:VAL:HG13	2.08	0.54
2:A0:302:ALA:O	2:A0:303:ARG:HD3	2.08	0.54
2:G0:100:ASN:O	2:G0:106:TYR:HB3	2.07	0.54
2:C0:218:LEU:HA	2:C0:245:TYR:HA	1.88	0.54
2:F0:306:LYS:HZ2	2:F0:308:TRP:CD1	2.26	0.54
2:G1:269:ASP:OD1	2:G1:270:ASN:N	2.39	0.54
2:G1:308:TRP:NE1	2:G1:320:MET:HB2	2.20	0.54
2:C1:200:PHE:HB2	2:C1:205:TRP:HB2	1.89	0.54
2:E1:63:ILE:HD13	2:F1:82:HIS:CE1	2.43	0.54
2:G2:285:TYR:CD2	2:G2:302:ALA:HA	2.42	0.54
2:C2:218:LEU:HA	2:C2:245:TYR:HA	1.88	0.54
2:D2:154:MET:N	2:D2:154:MET:SD	2.80	0.54
2:F2:90:LEU:HG	2:F2:111:ILE:HD13	1.89	0.54
2:A3:137:LYS:HG3	2:A3:139:LYS:H	1.71	0.54
2:C3:200:PHE:HB2	2:C3:205:TRP:HB2	1.89	0.54
2:E3:63:ILE:HD13	2:F3:82:HIS:CE1	2.43	0.54
2:E3:200:PHE:HB2	2:E3:205:TRP:HB2	1.89	0.54
2:F4:200:PHE:HB2	2:F4:205:TRP:HB2	1.89	0.54
1:B1:492:GLN:HG2	1:b1:474:THR:HB	1.88	0.54
1:B3:129:GLU:HG3	1:B3:131:LYS:HE2	1.89	0.54
1:b3:399:ARG:O	1:b3:403:VAL:HG22	2.07	0.54
1:b5:476:GLU:HG2	1:b5:477:LYS:N	2.23	0.54
2:A0:137:LYS:HG3	2:A0:139:LYS:H	1.72	0.54
2:A0:181:THR:HA	2:A0:184:ILE:HD12	1.88	0.54
2:C0:302:ALA:O	2:C0:303:ARG:HD3	2.08	0.54
2:A1:100:ASN:O	2:A1:106:TYR:HB3	2.07	0.54
2:A1:114:GLN:O	2:A1:117:ARG:HG2	2.08	0.54
2:D1:114:GLN:O	2:D1:117:ARG:HG2	2.08	0.54
2:E1:154:MET:N	2:E1:154:MET:SD	2.80	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F1:100:ASN:O	2:F1:106:TYR:HB3	2.07	0.54
2:F1:200:PHE:HB2	2:F1:205:TRP:HB2	1.89	0.54
2:A2:33:PRO:CG	2:G2:92:ARG:HH21	1.99	0.54
2:D2:200:PHE:HB2	2:D2:205:TRP:HB2	1.89	0.54
2:E2:90:LEU:HG	2:E2:111:ILE:HD13	1.89	0.54
2:E2:200:PHE:HB2	2:E2:205:TRP:HB2	1.89	0.54
2:A3:90:LEU:HB3	2:A3:110:ARG:NH1	2.22	0.54
2:A3:200:PHE:HB2	2:A3:205:TRP:HB2	1.89	0.54
2:D3:90:LEU:HB3	2:D3:110:ARG:NH1	2.22	0.54
2:D4:90:LEU:HB3	2:D4:110:ARG:NH1	2.22	0.54
1:B:132:ARG:NH1	1:B:140:GLU:OE1	2.34	0.54
1:B:476:GLU:HG2	1:B:477:LYS:N	2.23	0.54
1:b:457:GLY:O	1:b:461:VAL:HG13	2.08	0.54
1:b1:500:ARG:HD3	1:b1:507:PRO:HA	1.90	0.54
1:B3:361:TYR:HD2	1:B3:362:ILE:HG13	1.73	0.54
1:B4:361:TYR:HD2	1:B4:362:ILE:HG13	1.73	0.54
1:B4:476:GLU:HG2	1:B4:477:LYS:N	2.23	0.54
1:B5:129:GLU:HG3	1:B5:131:LYS:HE2	1.89	0.54
1:B5:457:GLY:O	1:B5:461:VAL:HG13	2.08	0.54
2:C0:194:VAL:HG11	2:D0:240:SER:HB3	1.89	0.54
2:D0:62:VAL:HG22	2:E0:318:PHE:HZ	1.69	0.54
2:A1:302:ALA:O	2:A1:303:ARG:HD3	2.08	0.54
2:G1:100:ASN:O	2:G1:106:TYR:HB3	2.07	0.54
2:C1:90:LEU:HB3	2:C1:110:ARG:NH1	2.22	0.54
2:E1:90:LEU:HG	2:E1:111:ILE:HD13	1.89	0.54
2:E1:302:ALA:O	2:E1:303:ARG:HD3	2.08	0.54
2:C2:182:ASP:OD1	2:C2:183:ASP:N	2.38	0.54
2:D2:100:ASN:O	2:D2:106:TYR:HB3	2.07	0.54
2:E2:114:GLN:O	2:E2:117:ARG:HG2	2.08	0.54
2:E2:302:ALA:O	2:E2:303:ARG:HD3	2.08	0.54
2:F2:100:ASN:O	2:F2:106:TYR:HB3	2.07	0.54
2:A3:90:LEU:HG	2:A3:111:ILE:HD13	1.89	0.54
2:A3:181:THR:HA	2:A3:184:ILE:HD12	1.88	0.54
2:E3:302:ALA:O	2:E3:303:ARG:HD3	2.08	0.54
2:F3:30:GLU:HG3	2:F3:32:TYR:CE2	2.42	0.54
2:A4:200:PHE:HB2	2:A4:205:TRP:HB2	1.89	0.54
2:G4:182:ASP:OD1	2:G4:183:ASP:N	2.39	0.54
2:D4:114:GLN:O	2:D4:117:ARG:HG2	2.08	0.54
2:D4:209:ARG:HA	2:D4:214:VAL:HG11	1.90	0.54
2:E4:90:LEU:HB3	2:E4:110:ARG:NH1	2.22	0.54
1:B:129:GLU:HG3	1:B:131:LYS:HE2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:361:TYR:HD2	1:b:362:ILE:HG13	1.73	0.53
1:B1:500:ARG:HD3	1:B1:507:PRO:HA	1.90	0.53
1:b1:376:ASN:OD1	1:B2:360:ARG:CZ	2.56	0.53
1:B2:457:GLY:O	1:B2:461:VAL:HG13	2.08	0.53
1:B2:500:ARG:HD3	1:B2:507:PRO:HA	1.90	0.53
1:b2:377:TYR:C	1:B3:379:GLN:HE22	2.16	0.53
1:b3:361:TYR:HD2	1:b3:362:ILE:HG13	1.73	0.53
1:B4:492:GLN:HG2	1:b4:474:THR:HB	1.88	0.53
2:G0:302:ALA:O	2:G0:303:ARG:HD3	2.08	0.53
2:E0:114:GLN:O	2:E0:117:ARG:HG2	2.08	0.53
2:E0:209:ARG:HA	2:E0:214:VAL:HG11	1.90	0.53
2:F0:209:ARG:HA	2:F0:214:VAL:HG11	1.90	0.53
2:D1:182:ASP:OD1	2:D1:183:ASP:N	2.38	0.53
2:D1:302:ALA:O	2:D1:303:ARG:HD3	2.08	0.53
2:C2:209:ARG:HA	2:C2:214:VAL:HG11	1.90	0.53
2:D2:235:LEU:HA	2:D2:237:LYS:HZ3	1.73	0.53
2:E2:100:ASN:O	2:E2:106:TYR:HB3	2.07	0.53
2:A3:302:ALA:O	2:A3:303:ARG:HD3	2.08	0.53
2:C3:114:GLN:O	2:C3:117:ARG:HG2	2.08	0.53
2:C3:194:VAL:HG11	2:D3:240:SER:HB3	1.89	0.53
2:E3:100:ASN:O	2:E3:106:TYR:HB3	2.07	0.53
2:F3:90:LEU:HB3	2:F3:110:ARG:NH1	2.22	0.53
2:F3:209:ARG:HA	2:F3:214:VAL:HG11	1.90	0.53
2:A4:181:THR:HA	2:A4:184:ILE:HD12	1.89	0.53
2:G4:50:MET:SD	2:C4:122:ALA:CA	2.95	0.53
2:G4:114:GLN:O	2:G4:117:ARG:HG2	2.08	0.53
2:G4:302:ALA:O	2:G4:303:ARG:HD3	2.08	0.53
2:C4:181:THR:HA	2:C4:184:ILE:HD12	1.88	0.53
2:F4:302:ALA:O	2:F4:303:ARG:HD3	2.08	0.53
1:B1:170:ARG:NH2	1:b1:198:SER:O	2.37	0.53
1:B2:376:ASN:OD1	1:b2:360:ARG:CZ	2.56	0.53
1:b2:361:TYR:HD2	1:b2:362:ILE:HG13	1.73	0.53
1:B3:476:GLU:HG2	1:B3:477:LYS:N	2.23	0.53
1:b3:476:GLU:HG2	1:b3:477:LYS:N	2.23	0.53
1:B5:361:TYR:HD2	1:B5:362:ILE:HG13	1.73	0.53
2:A0:90:LEU:O	2:A0:92:ARG:HD3	2.07	0.53
2:A0:90:LEU:HG	2:A0:111:ILE:HD13	1.89	0.53
2:A0:194:VAL:N	2:G0:263:LYS:NZ	2.56	0.53
2:E0:63:ILE:HD13	2:F0:82:HIS:CE1	2.43	0.53
2:E0:90:LEU:HG	2:E0:111:ILE:HD13	1.89	0.53
2:E0:200:PHE:HB2	2:E0:205:TRP:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F0:114:GLN:O	2:F0:117:ARG:HG2	2.08	0.53
2:A1:182:ASP:OD1	2:A1:183:ASP:N	2.38	0.53
2:F2:114:GLN:O	2:F2:117:ARG:HG2	2.08	0.53
2:F3:114:GLN:O	2:F3:117:ARG:HG2	2.08	0.53
2:A4:302:ALA:O	2:A4:303:ARG:HD3	2.08	0.53
2:G4:90:LEU:HG	2:G4:111:ILE:HD13	1.89	0.53
2:D4:90:LEU:HG	2:D4:111:ILE:HD13	1.89	0.53
2:E4:200:PHE:HB2	2:E4:205:TRP:HB2	1.89	0.53
2:F4:209:ARG:HA	2:F4:214:VAL:HG11	1.91	0.53
1:B:436:GLN:OE1	1:B:439:ARG:NH2	2.25	0.53
1:b:500:ARG:HD3	1:b:507:PRO:HA	1.90	0.53
1:B1:486:TYR:HA	1:B1:489:ILE:HG22	1.90	0.53
1:b2:476:GLU:HG2	1:b2:477:LYS:N	2.23	0.53
1:b4:457:GLY:O	1:b4:461:VAL:HG13	2.08	0.53
1:B5:108:SER:HA	1:B5:111:VAL:HG22	1.89	0.53
1:b5:400:ARG:NH2	1:b5:450:SER:H	2.06	0.53
2:A0:114:GLN:O	2:A0:117:ARG:HG2	2.08	0.53
2:A0:222:ARG:HH21	2:A0:241:TYR:HE2	1.57	0.53
2:G0:114:GLN:O	2:G0:117:ARG:HG2	2.08	0.53
2:C0:90:LEU:HG	2:C0:111:ILE:HD13	1.89	0.53
2:D0:114:GLN:O	2:D0:117:ARG:HG2	2.08	0.53
2:D0:222:ARG:HH21	2:D0:241:TYR:HE2	1.57	0.53
2:F0:90:LEU:HG	2:F0:111:ILE:HD13	1.89	0.53
2:C1:209:ARG:HA	2:C1:214:VAL:HG11	1.90	0.53
2:E1:209:ARG:HA	2:E1:214:VAL:HG11	1.90	0.53
2:F1:209:ARG:HA	2:F1:214:VAL:HG11	1.90	0.53
2:A2:200:PHE:HB2	2:A2:205:TRP:HB2	1.89	0.53
2:A2:222:ARG:HH21	2:A2:241:TYR:HE2	1.57	0.53
2:D2:64:ARG:NH1	2:E2:316:ARG:NH2	2.55	0.53
2:F2:182:ASP:OD1	2:F2:183:ASP:N	2.39	0.53
2:A3:222:ARG:HH21	2:A3:241:TYR:HE2	1.57	0.53
2:G3:114:GLN:O	2:G3:117:ARG:HG2	2.08	0.53
2:A4:194:VAL:N	2:G4:263:LYS:NZ	2.56	0.53
2:C4:114:GLN:O	2:C4:117:ARG:HG2	2.08	0.53
2:D4:64:ARG:NH1	2:E4:316:ARG:NH2	2.55	0.53
1:B:376:ASN:OD1	1:b:360:ARG:CZ	2.57	0.53
1:b:176:ARG:NE	1:b:207:SER:O	2.39	0.53
1:B1:108:SER:HA	1:B1:111:VAL:HG22	1.89	0.53
1:B1:457:GLY:O	1:B1:461:VAL:HG13	2.08	0.53
1:B2:265:GLN:HE21	1:b2:259:LYS:HZ2	1.56	0.53
1:B3:457:GLY:O	1:B3:461:VAL:HG13	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B4:400:ARG:NH2	1:B4:450:SER:H	2.06	0.53
1:b4:250:VAL:O	1:b4:254:VAL:HG23	2.09	0.53
1:b5:108:SER:HA	1:b5:111:VAL:HG22	1.89	0.53
2:G0:222:ARG:HH21	2:G0:241:TYR:HE2	1.57	0.53
2:C0:294:GLN:OE1	2:G4:316:ARG:NH1	2.42	0.53
2:F0:181:THR:HA	2:F0:184:ILE:HD12	1.88	0.53
2:F0:269:ASP:OD1	2:F0:270:ASN:N	2.39	0.53
2:A1:222:ARG:HH21	2:A1:241:TYR:HE2	1.57	0.53
2:A1:235:LEU:HA	2:A1:237:LYS:HZ3	1.74	0.53
2:C2:302:ALA:O	2:C2:303:ARG:HD3	2.08	0.53
2:D2:222:ARG:HH21	2:D2:241:TYR:HE2	1.57	0.53
2:D2:302:ALA:O	2:D2:303:ARG:HD3	2.08	0.53
2:A3:308:TRP:CH2	2:D4:313:ASP:HA	2.43	0.53
2:A3:308:TRP:NE1	2:A3:320:MET:HB2	2.20	0.53
2:C3:209:ARG:HA	2:C3:214:VAL:HG11	1.90	0.53
2:D3:222:ARG:HH21	2:D3:241:TYR:HE2	1.57	0.53
2:G4:200:PHE:HB2	2:G4:205:TRP:HB2	1.89	0.53
2:E4:302:ALA:O	2:E4:303:ARG:HD3	2.08	0.53
1:B:400:ARG:NH2	1:B:450:SER:H	2.06	0.53
1:b:129:GLU:HG3	1:b:131:LYS:HE2	1.89	0.53
1:b:376:ASN:OD1	1:B1:360:ARG:CZ	2.56	0.53
1:B2:361:TYR:HD2	1:B2:362:ILE:HG13	1.73	0.53
1:B2:476:GLU:HG2	1:B2:477:LYS:N	2.23	0.53
1:b3:108:SER:HA	1:b3:111:VAL:HG22	1.89	0.53
1:B4:178:SER:OG	1:B4:219:TRP:NE1	2.39	0.53
1:b4:108:SER:HA	1:b4:111:VAL:HG22	1.89	0.53
1:B5:400:ARG:NH2	1:B5:450:SER:H	2.06	0.53
2:G0:209:ARG:HA	2:G0:214:VAL:HG11	1.90	0.53
2:F0:302:ALA:O	2:F0:303:ARG:HD3	2.08	0.53
2:A1:194:VAL:N	2:G1:263:LYS:NZ	2.56	0.53
2:G1:222:ARG:HH21	2:G1:241:TYR:HE2	1.57	0.53
2:C1:302:ALA:O	2:C1:303:ARG:HD3	2.08	0.53
2:D1:222:ARG:HH21	2:D1:241:TYR:HE2	1.57	0.53
2:E1:222:ARG:HH21	2:E1:241:TYR:HE2	1.57	0.53
2:A2:308:TRP:CH2	2:D3:313:ASP:HA	2.43	0.53
2:G2:114:GLN:O	2:G2:117:ARG:HG2	2.08	0.53
2:G2:181:THR:HA	2:G2:184:ILE:HD12	1.88	0.53
2:G2:222:ARG:HH21	2:G2:241:TYR:HE2	1.57	0.53
2:G2:302:ALA:O	2:G2:303:ARG:HD3	2.08	0.53
2:G2:316:ARG:NH1	2:C3:294:GLN:OE1	2.42	0.53
2:E3:114:GLN:O	2:E3:117:ARG:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E4:63:ILE:HD13	2:F4:82:HIS:CE1	2.43	0.53
2:E4:114:GLN:O	2:E4:117:ARG:HG2	2.08	0.53
2:E4:209:ARG:HA	2:E4:214:VAL:HG11	1.90	0.53
1:b1:129:GLU:HG3	1:b1:131:LYS:HE2	1.89	0.53
1:b1:361:TYR:HD2	1:b1:362:ILE:HG13	1.73	0.53
1:b1:457:GLY:O	1:b1:461:VAL:HG13	2.08	0.53
1:b1:486:TYR:HA	1:b1:489:ILE:HG22	1.90	0.53
1:B3:250:VAL:O	1:B3:254:VAL:HG23	2.09	0.53
1:b3:250:VAL:O	1:b3:254:VAL:HG23	2.09	0.53
2:G1:302:ALA:O	2:G1:303:ARG:HD3	2.08	0.53
2:A2:240:SER:HB3	2:F2:194:VAL:HG21	1.88	0.53
2:C2:114:GLN:O	2:C2:117:ARG:HG2	2.08	0.53
2:D3:269:ASP:OD1	2:D3:270:ASN:N	2.39	0.53
2:A4:90:LEU:HG	2:A4:111:ILE:HD13	1.89	0.53
2:A4:222:ARG:HH21	2:A4:241:TYR:HE2	1.57	0.53
2:E4:308:TRP:NE1	2:E4:320:MET:HB2	2.20	0.53
1:B1:361:TYR:HD2	1:B1:362:ILE:HG13	1.73	0.53
1:B1:376:ASN:OD1	1:b1:360:ARG:CZ	2.57	0.53
1:B2:250:VAL:O	1:B2:254:VAL:HG23	2.09	0.53
1:b3:400:ARG:NH2	1:b3:450:SER:H	2.06	0.53
1:B4:395:TYR:HD1	1:B4:399:ARG:HH12	1.57	0.53
1:B4:457:GLY:O	1:B4:461:VAL:HG13	2.08	0.53
1:b5:395:TYR:HD1	1:b5:399:ARG:HH12	1.57	0.53
2:D0:209:ARG:HA	2:D0:214:VAL:HG11	1.90	0.53
2:D1:209:ARG:HA	2:D1:214:VAL:HG11	1.90	0.53
2:E1:235:LEU:HA	2:E1:237:LYS:HZ3	1.73	0.53
2:F1:302:ALA:O	2:F1:303:ARG:HD3	2.08	0.53
2:D2:194:VAL:H	2:E2:263:LYS:HZ1	1.55	0.53
2:D2:209:ARG:HA	2:D2:214:VAL:HG11	1.90	0.53
2:A3:209:ARG:HA	2:A3:214:VAL:HG11	1.90	0.53
2:G3:302:ALA:O	2:G3:303:ARG:HD3	2.08	0.53
2:C4:200:PHE:HB2	2:C4:205:TRP:HB2	1.89	0.53
1:B:361:TYR:HD2	1:B:362:ILE:HG13	1.73	0.53
1:B:395:TYR:HD1	1:B:399:ARG:HH12	1.57	0.53
1:B1:476:GLU:HG2	1:B1:477:LYS:N	2.23	0.53
1:B5:395:TYR:HD1	1:B5:399:ARG:HH12	1.57	0.53
2:A0:194:VAL:N	2:G0:263:LYS:HZ1	2.05	0.53
2:C0:114:GLN:O	2:C0:117:ARG:HG2	2.08	0.53
2:D0:90:LEU:HG	2:D0:111:ILE:HD13	1.89	0.53
2:F0:200:PHE:HB2	2:F0:205:TRP:HB2	1.89	0.53
2:A1:276:ASN:HB2	2:G1:263:LYS:HZ3	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E1:306:LYS:HG3	2:E1:308:TRP:HD1	1.74	0.53
2:A2:276:ASN:HB2	2:G2:263:LYS:HZ3	1.73	0.53
2:A2:302:ALA:O	2:A2:303:ARG:HD3	2.08	0.53
2:G3:308:TRP:NE1	2:G3:320:MET:HB2	2.20	0.53
2:G4:222:ARG:HH21	2:G4:241:TYR:HE2	1.57	0.53
2:C4:209:ARG:HA	2:C4:214:VAL:HG11	1.90	0.53
1:B:108:SER:HA	1:B:111:VAL:HG22	1.89	0.53
1:B:486:TYR:HA	1:B:489:ILE:HG22	1.90	0.53
1:b:476:GLU:HG2	1:b:477:LYS:N	2.23	0.53
1:B1:151:LEU:HD21	1:B1:407:GLN:HE21	1.74	0.53
2:A0:308:TRP:NE1	2:A0:320:MET:HB2	2.20	0.53
2:E0:222:ARG:HH21	2:E0:241:TYR:HE2	1.57	0.53
2:C1:269:ASP:OD1	2:C1:270:ASN:N	2.39	0.53
2:G2:50:MET:SD	2:C2:122:ALA:CA	2.95	0.53
2:E2:306:LYS:HG3	2:E2:308:TRP:HD1	1.74	0.53
2:F2:209:ARG:HA	2:F2:214:VAL:HG11	1.90	0.53
2:G3:50:MET:SD	2:C3:122:ALA:CA	2.95	0.53
2:D3:209:ARG:HA	2:D3:214:VAL:HG11	1.90	0.53
2:D3:302:ALA:O	2:D3:303:ARG:HD3	2.08	0.53
2:E3:57:ILE:HG13	2:E3:58:VAL:H	1.74	0.53
2:F3:182:ASP:OD1	2:F3:183:ASP:N	2.38	0.53
2:D4:222:ARG:HH21	2:D4:241:TYR:HE2	1.57	0.53
2:F4:57:ILE:HG13	2:F4:58:VAL:H	1.74	0.53
1:b1:274:VAL:HG13	1:B2:345:GLN:HE22	1.73	0.53
1:B2:500:ARG:HE	1:B2:505:LEU:HB3	1.74	0.53
1:b2:250:VAL:O	1:b2:254:VAL:HG23	2.09	0.53
1:b2:500:ARG:HD3	1:b2:507:PRO:HA	1.90	0.53
1:b3:395:TYR:HD1	1:b3:399:ARG:HH12	1.57	0.53
1:b3:457:GLY:O	1:b3:461:VAL:HG13	2.08	0.53
1:B4:250:VAL:O	1:B4:254:VAL:HG23	2.09	0.53
1:b4:382:TYR:CD1	1:B5:383:SER:HB3	2.44	0.53
1:b4:395:TYR:HD1	1:b4:399:ARG:HH12	1.57	0.53
1:b5:500:ARG:HE	1:b5:505:LEU:HB3	1.74	0.53
2:E0:302:ALA:O	2:E0:303:ARG:HD3	2.08	0.53
2:A1:200:PHE:HB2	2:A1:205:TRP:HB2	1.89	0.53
2:A1:209:ARG:HA	2:A1:214:VAL:HG11	1.90	0.53
2:D1:225:ASN:OD1	2:D1:226:SER:N	2.42	0.53
2:F1:306:LYS:HG3	2:F1:308:TRP:HD1	1.74	0.53
2:A2:306:LYS:HG3	2:A2:308:TRP:HD1	1.74	0.53
2:A3:225:ASN:OD1	2:A3:226:SER:N	2.42	0.53
2:G3:222:ARG:HH21	2:G3:241:TYR:HE2	1.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b1:476:GLU:HG2	1:b1:477:LYS:N	2.23	0.52
1:b3:486:TYR:HA	1:b3:489:ILE:HG22	1.90	0.52
1:b5:486:TYR:HA	1:b5:489:ILE:HG22	1.90	0.52
2:D0:225:ASN:OD1	2:D0:226:SER:N	2.42	0.52
2:E0:306:LYS:HG3	2:E0:308:TRP:HD1	1.74	0.52
2:F0:57:ILE:HG13	2:F0:58:VAL:H	1.74	0.52
2:G1:209:ARG:HA	2:G1:214:VAL:HG11	1.90	0.52
2:G1:225:ASN:OD1	2:G1:226:SER:N	2.43	0.52
2:G1:235:LEU:HA	2:G1:237:LYS:HZ3	1.74	0.52
2:E1:269:ASP:OD1	2:E1:270:ASN:N	2.39	0.52
2:F1:306:LYS:HZ2	2:F1:308:TRP:CD1	2.27	0.52
2:G2:225:ASN:OD1	2:G2:226:SER:N	2.42	0.52
2:E2:225:ASN:OD1	2:E2:226:SER:N	2.42	0.52
2:E2:308:TRP:NE1	2:E2:320:MET:HB2	2.20	0.52
2:G3:209:ARG:HA	2:G3:214:VAL:HG11	1.90	0.52
2:E3:306:LYS:HG3	2:E3:308:TRP:HD1	1.74	0.52
2:A4:209:ARG:HA	2:A4:214:VAL:HG11	1.90	0.52
2:C4:222:ARG:HH21	2:C4:241:TYR:HE2	1.57	0.52
2:C4:302:ALA:O	2:C4:303:ARG:HD3	2.08	0.52
2:F4:225:ASN:OD1	2:F4:226:SER:N	2.42	0.52
1:B:500:ARG:HD3	1:B:507:PRO:HA	1.90	0.52
1:b1:400:ARG:NH2	1:b1:450:SER:H	2.06	0.52
1:B2:400:ARG:NH2	1:B2:450:SER:H	2.06	0.52
1:B4:108:SER:HA	1:B4:111:VAL:HG22	1.89	0.52
1:B4:486:TYR:HA	1:B4:489:ILE:HG22	1.90	0.52
1:B5:376:ASN:OD1	1:b5:360:ARG:CZ	2.56	0.52
2:A0:57:ILE:HG13	2:A0:58:VAL:H	1.74	0.52
2:A0:306:LYS:HG3	2:A0:308:TRP:HD1	1.74	0.52
2:C0:209:ARG:HA	2:C0:214:VAL:HG11	1.90	0.52
2:D0:302:ALA:O	2:D0:303:ARG:HD3	2.08	0.52
2:F0:306:LYS:HG3	2:F0:308:TRP:HD1	1.74	0.52
2:F1:114:GLN:O	2:F1:117:ARG:HG2	2.08	0.52
2:A2:114:GLN:O	2:A2:117:ARG:HG2	2.08	0.52
2:A2:308:TRP:NE1	2:A2:320:MET:HB2	2.20	0.52
2:E2:209:ARG:HA	2:E2:214:VAL:HG11	1.90	0.52
2:A3:21:PRO:HD2	2:A3:128:GLU:CD	2.35	0.52
2:C3:302:ALA:O	2:C3:303:ARG:HD3	2.08	0.52
2:D3:90:LEU:HG	2:D3:111:ILE:HD13	1.89	0.52
2:F3:222:ARG:HH21	2:F3:241:TYR:HE2	1.57	0.52
2:F3:225:ASN:OD1	2:F3:226:SER:N	2.42	0.52
2:A4:14:GLU:HB2	2:A4:16:LYS:HZ3	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:57:ILE:HG13	2:A4:58:VAL:H	1.74	0.52
2:G4:57:ILE:HG13	2:G4:58:VAL:H	1.74	0.52
2:E4:57:ILE:HG13	2:E4:58:VAL:H	1.74	0.52
2:E4:101:LEU:HD11	2:E4:110:ARG:HH21	1.75	0.52
1:B:198:SER:O	1:b5:170:ARG:NH2	2.34	0.52
1:B:355:GLU:HA	1:B:358:LEU:HG	1.92	0.52
1:b:355:GLU:HA	1:b:358:LEU:HG	1.92	0.52
1:b:395:TYR:HD1	1:b:399:ARG:HH12	1.57	0.52
1:b1:151:LEU:HD21	1:b1:407:GLN:HE21	1.75	0.52
1:b2:500:ARG:HE	1:b2:505:LEU:HB3	1.75	0.52
1:B3:400:ARG:NH2	1:B3:450:SER:H	2.06	0.52
1:b4:208:GLU:HB3	1:b4:217:GLN:HA	1.91	0.52
1:B5:208:GLU:HB3	1:B5:217:GLN:HA	1.91	0.52
1:b5:361:TYR:HD2	1:b5:362:ILE:HG13	1.73	0.52
2:A0:101:LEU:HD11	2:A0:110:ARG:HH21	1.75	0.52
2:A0:209:ARG:HA	2:A0:214:VAL:HG11	1.90	0.52
2:G0:14:GLU:HB2	2:G0:16:LYS:HZ1	1.75	0.52
2:G0:21:PRO:HD2	2:G0:128:GLU:CD	2.35	0.52
2:C0:222:ARG:HH21	2:C0:241:TYR:HE2	1.57	0.52
2:A1:21:PRO:HD2	2:A1:128:GLU:CD	2.35	0.52
2:C1:101:LEU:HD11	2:C1:110:ARG:HH21	1.75	0.52
2:D1:21:PRO:HD2	2:D1:128:GLU:CD	2.35	0.52
2:E1:21:PRO:HD2	2:E1:128:GLU:CD	2.35	0.52
2:F1:57:ILE:HG13	2:F1:58:VAL:H	1.74	0.52
2:A2:21:PRO:HD2	2:A2:128:GLU:CD	2.35	0.52
2:G2:21:PRO:HD2	2:G2:128:GLU:CD	2.35	0.52
2:F2:21:PRO:HD2	2:F2:128:GLU:CD	2.35	0.52
2:F2:302:ALA:O	2:F2:303:ARG:HD3	2.08	0.52
2:G3:225:ASN:OD1	2:G3:226:SER:N	2.42	0.52
2:D3:306:LYS:HG3	2:D3:308:TRP:HD1	1.74	0.52
2:A4:114:GLN:O	2:A4:117:ARG:HG2	2.08	0.52
2:C4:21:PRO:HD2	2:C4:128:GLU:CD	2.35	0.52
1:b:151:LEU:HD21	1:b:407:GLN:HE21	1.75	0.52
1:b:400:ARG:NH2	1:b:450:SER:H	2.06	0.52
1:b1:500:ARG:HE	1:b1:505:LEU:HB3	1.75	0.52
1:B2:317:TYR:CE2	1:b2:334:MET:SD	3.03	0.52
1:b2:400:ARG:NH2	1:b2:450:SER:H	2.06	0.52
1:b2:457:GLY:O	1:b2:461:VAL:HG13	2.08	0.52
1:B3:178:SER:OG	1:B3:219:TRP:NE1	2.39	0.52
1:B3:500:ARG:HE	1:B3:505:LEU:HB3	1.75	0.52
1:b3:436:GLN:OE1	1:b3:439:ARG:NH2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b4:274:VAL:HG13	1:B5:345:GLN:HE22	1.75	0.52
1:B5:250:VAL:O	1:B5:254:VAL:HG23	2.09	0.52
1:b5:250:VAL:O	1:b5:254:VAL:HG23	2.09	0.52
2:C0:57:ILE:HG13	2:C0:58:VAL:H	1.74	0.52
2:E0:225:ASN:OD1	2:E0:226:SER:N	2.43	0.52
2:F0:101:LEU:HD11	2:F0:110:ARG:HH21	1.75	0.52
2:G1:50:MET:SD	2:C1:122:ALA:CA	2.95	0.52
2:D1:101:LEU:HD11	2:D1:110:ARG:HH21	1.75	0.52
2:A2:57:ILE:HG13	2:A2:58:VAL:H	1.74	0.52
2:G2:57:ILE:HG13	2:G2:58:VAL:H	1.74	0.52
2:C2:101:LEU:HD11	2:C2:110:ARG:HH21	1.75	0.52
2:D2:101:LEU:HD11	2:D2:110:ARG:HH21	1.75	0.52
2:E2:101:LEU:HD11	2:E2:110:ARG:HH21	1.75	0.52
2:D3:212:LYS:O	2:D3:215:LYS:N	2.43	0.52
2:F3:57:ILE:HG13	2:F3:58:VAL:H	1.74	0.52
2:F3:302:ALA:O	2:F3:303:ARG:HD3	2.08	0.52
2:A4:308:TRP:NE1	2:A4:320:MET:HB2	2.20	0.52
2:D4:212:LYS:O	2:D4:215:LYS:N	2.43	0.52
2:D4:306:LYS:HG3	2:D4:308:TRP:HD1	1.74	0.52
2:E4:225:ASN:OD1	2:E4:226:SER:N	2.42	0.52
2:F4:306:LYS:HG3	2:F4:308:TRP:HD1	1.74	0.52
1:B1:250:VAL:O	1:B1:254:VAL:HG23	2.09	0.52
1:B1:355:GLU:HA	1:B1:358:LEU:HG	1.92	0.52
1:B1:500:ARG:HE	1:B1:505:LEU:HB3	1.74	0.52
1:b1:355:GLU:HA	1:b1:358:LEU:HG	1.92	0.52
1:B2:436:GLN:OE1	1:B2:439:ARG:NH2	2.25	0.52
1:b2:436:GLN:OE1	1:b2:439:ARG:NH2	2.25	0.52
1:b2:486:TYR:HA	1:b2:489:ILE:HG22	1.90	0.52
1:B4:500:ARG:HD3	1:B4:507:PRO:HA	1.90	0.52
1:b4:486:TYR:HA	1:b4:489:ILE:HG22	1.90	0.52
1:b4:500:ARG:HE	1:b4:505:LEU:HB3	1.75	0.52
2:A1:57:ILE:HG13	2:A1:58:VAL:H	1.74	0.52
2:A1:225:ASN:OD1	2:A1:226:SER:N	2.43	0.52
2:G1:101:LEU:HD11	2:G1:110:ARG:HH21	1.75	0.52
2:G1:306:LYS:HG3	2:G1:308:TRP:HD1	1.74	0.52
2:F1:101:LEU:HD11	2:F1:110:ARG:HH21	1.75	0.52
2:F1:225:ASN:OD1	2:F1:226:SER:N	2.42	0.52
2:A2:209:ARG:HA	2:A2:214:VAL:HG11	1.90	0.52
2:C2:225:ASN:OD1	2:C2:226:SER:N	2.43	0.52
2:F2:222:ARG:HH21	2:F2:241:TYR:HE2	1.57	0.52
2:F2:306:LYS:HG3	2:F2:308:TRP:HD1	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E3:209:ARG:HA	2:E3:214:VAL:HG11	1.90	0.52
2:E3:212:LYS:O	2:E3:215:LYS:N	2.43	0.52
2:A4:21:PRO:HD2	2:A4:128:GLU:CD	2.35	0.52
1:B:176:ARG:NE	1:B:207:SER:O	2.39	0.52
1:b:108:SER:HA	1:b:111:VAL:HG22	1.89	0.52
1:B1:359:LEU:HB2	1:B1:370:TYR:HD2	1.75	0.52
1:B1:400:ARG:NH2	1:B1:450:SER:H	2.06	0.52
1:b1:208:GLU:HB3	1:b1:217:GLN:HA	1.91	0.52
1:B3:395:TYR:HD1	1:B3:399:ARG:HH12	1.57	0.52
1:B3:486:TYR:HA	1:B3:489:ILE:HG22	1.90	0.52
1:b3:417:GLU:OE2	1:b3:439:ARG:NH2	2.43	0.52
1:B4:208:GLU:HB3	1:B4:217:GLN:HA	1.91	0.52
1:B4:417:GLU:OE2	1:B4:439:ARG:NH2	2.43	0.52
1:b4:400:ARG:NH2	1:b4:450:SER:H	2.06	0.52
1:b5:355:GLU:HA	1:b5:358:LEU:HG	1.92	0.52
2:A0:21:PRO:HD2	2:A0:128:GLU:CD	2.35	0.52
2:A0:225:ASN:OD1	2:A0:226:SER:N	2.42	0.52
2:G0:57:ILE:HG13	2:G0:58:VAL:H	1.74	0.52
2:G0:101:LEU:HD11	2:G0:110:ARG:HH21	1.75	0.52
2:G0:225:ASN:OD1	2:G0:226:SER:N	2.42	0.52
2:D0:14:GLU:HB2	2:D0:16:LYS:HZ1	1.74	0.52
2:A1:101:LEU:HD11	2:A1:110:ARG:HH21	1.75	0.52
2:G1:57:ILE:HG13	2:G1:58:VAL:H	1.74	0.52
2:G1:212:LYS:O	2:G1:215:LYS:N	2.43	0.52
2:C1:212:LYS:O	2:C1:215:LYS:N	2.43	0.52
2:F1:21:PRO:HD2	2:F1:128:GLU:CD	2.35	0.52
2:C2:212:LYS:O	2:C2:215:LYS:N	2.43	0.52
2:A3:57:ILE:HG13	2:A3:58:VAL:H	1.74	0.52
2:A3:114:GLN:O	2:A3:117:ARG:HG2	2.08	0.52
2:G3:316:ARG:NH1	2:C4:294:GLN:OE1	2.42	0.52
2:F3:306:LYS:HG3	2:F3:308:TRP:HD1	1.74	0.52
2:G4:101:LEU:HD11	2:G4:110:ARG:HH21	1.75	0.52
2:E4:222:ARG:HH21	2:E4:241:TYR:HE2	1.57	0.52
2:E4:235:LEU:HA	2:E4:237:LYS:HZ3	1.74	0.52
2:F4:21:PRO:HD2	2:F4:128:GLU:CD	2.35	0.52
1:B:500:ARG:HE	1:B:505:LEU:HB3	1.75	0.52
1:b:359:LEU:HB2	1:b:370:TYR:HD2	1.75	0.52
1:b:486:TYR:HA	1:b:489:ILE:HG22	1.90	0.52
1:b:500:ARG:HE	1:b:505:LEU:HB3	1.75	0.52
1:B2:151:LEU:HD21	1:B2:407:GLN:HE21	1.75	0.52
1:B2:208:GLU:HB3	1:B2:217:GLN:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B2:355:GLU:HA	1:B2:358:LEU:HG	1.92	0.52
1:b4:417:GLU:OE2	1:b4:439:ARG:NH2	2.43	0.52
1:b5:208:GLU:HB3	1:b5:217:GLN:HA	1.91	0.52
2:G0:212:LYS:O	2:G0:215:LYS:N	2.43	0.52
2:E0:21:PRO:HD2	2:E0:128:GLU:CD	2.35	0.52
2:E0:101:LEU:HD11	2:E0:110:ARG:HH21	1.75	0.52
2:D1:57:ILE:HG13	2:D1:58:VAL:H	1.74	0.52
2:G2:209:ARG:HA	2:G2:214:VAL:HG11	1.90	0.52
2:D2:21:PRO:HD2	2:D2:128:GLU:CD	2.35	0.52
2:D2:22:LEU:HD12	2:D2:26:LEU:HD13	1.92	0.52
2:E2:21:PRO:HD2	2:E2:128:GLU:CD	2.35	0.52
2:F2:101:LEU:HD11	2:F2:110:ARG:HH21	1.75	0.52
2:F2:225:ASN:OD1	2:F2:226:SER:N	2.42	0.52
2:G3:101:LEU:HD11	2:G3:110:ARG:HH21	1.75	0.52
2:G3:212:LYS:O	2:G3:215:LYS:N	2.43	0.52
2:G3:306:LYS:HG3	2:G3:308:TRP:HD1	1.74	0.52
2:D3:225:ASN:OD1	2:D3:226:SER:N	2.43	0.52
2:E3:225:ASN:OD1	2:E3:226:SER:N	2.43	0.52
2:G4:225:ASN:OD1	2:G4:226:SER:N	2.43	0.52
2:C4:57:ILE:HG13	2:C4:58:VAL:H	1.74	0.52
2:D4:225:ASN:OD1	2:D4:226:SER:N	2.42	0.52
2:F4:222:ARG:HH21	2:F4:241:TYR:HE2	1.57	0.52
1:B:359:LEU:HB2	1:B:370:TYR:HD2	1.75	0.52
1:B:383:SER:HB3	1:b5:382:TYR:CD1	2.44	0.52
1:b:170:ARG:NH2	1:B1:198:SER:O	2.38	0.52
1:b:250:VAL:O	1:b:254:VAL:HG23	2.09	0.52
1:b1:359:LEU:HB2	1:b1:370:TYR:HD2	1.75	0.52
1:B3:492:GLN:HG2	1:b3:474:THR:HB	1.90	0.52
1:b3:500:ARG:HE	1:b3:505:LEU:HB3	1.75	0.52
1:b4:500:ARG:HD3	1:b4:507:PRO:HA	1.90	0.52
1:B5:265:GLN:CG	1:b5:259:LYS:HZ1	2.23	0.52
1:B5:417:GLU:OE2	1:B5:439:ARG:NH2	2.43	0.52
2:G0:182:ASP:OD1	2:G0:183:ASP:N	2.39	0.52
2:C0:21:PRO:HD2	2:C0:128:GLU:CD	2.35	0.52
2:D0:21:PRO:HD2	2:D0:128:GLU:CD	2.35	0.52
2:F0:21:PRO:HD2	2:F0:128:GLU:CD	2.35	0.52
2:E1:182:ASP:OD1	2:E1:183:ASP:N	2.38	0.52
2:A2:101:LEU:HD11	2:A2:110:ARG:HH21	1.75	0.52
2:A2:225:ASN:OD1	2:A2:226:SER:N	2.42	0.52
2:E2:222:ARG:HH21	2:E2:241:TYR:HE2	1.57	0.52
2:G3:21:PRO:HD2	2:G3:128:GLU:CD	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:101:LEU:HD11	2:C3:110:ARG:HH21	1.75	0.52
2:F3:101:LEU:HD11	2:F3:110:ARG:HH21	1.75	0.52
2:C4:22:LEU:HD12	2:C4:26:LEU:HD13	1.92	0.52
1:b1:250:VAL:O	1:b1:254:VAL:HG23	2.09	0.52
1:b2:208:GLU:HB3	1:b2:217:GLN:HA	1.91	0.52
1:b3:500:ARG:HD3	1:b3:507:PRO:HA	1.90	0.52
1:B5:436:GLN:OE1	1:B5:439:ARG:NH2	2.25	0.52
1:B5:486:TYR:HA	1:B5:489:ILE:HG22	1.90	0.52
2:G0:308:TRP:NE1	2:G0:320:MET:HB2	2.20	0.52
2:C0:22:LEU:HD12	2:C0:26:LEU:HD13	1.92	0.52
2:D0:182:ASP:OD1	2:D0:183:ASP:N	2.39	0.52
2:D0:276:ASN:ND2	2:E0:263:LYS:HZ3	2.08	0.52
2:E0:57:ILE:HG13	2:E0:58:VAL:H	1.74	0.52
2:F0:212:LYS:O	2:F0:215:LYS:N	2.43	0.52
2:A1:291:ALA:N	2:D2:316:ARG:HH12	2.08	0.52
2:C1:225:ASN:OD1	2:C1:226:SER:N	2.42	0.52
2:E1:225:ASN:OD1	2:E1:226:SER:N	2.42	0.52
2:F1:222:ARG:HH21	2:F1:241:TYR:HE2	1.57	0.52
2:C2:21:PRO:HD2	2:C2:128:GLU:CD	2.35	0.52
2:D2:57:ILE:HG13	2:D2:58:VAL:H	1.74	0.52
2:D2:225:ASN:OD1	2:D2:226:SER:N	2.42	0.52
2:G3:22:LEU:HD12	2:G3:26:LEU:HD13	1.92	0.52
2:D3:21:PRO:HD2	2:D3:128:GLU:CD	2.35	0.52
2:D3:160:ASN:HD22	2:D3:336:VAL:HG22	1.75	0.52
2:F3:21:PRO:HD2	2:F3:128:GLU:CD	2.35	0.52
2:A4:101:LEU:HD11	2:A4:110:ARG:HH21	1.75	0.52
2:G4:212:LYS:O	2:G4:215:LYS:N	2.43	0.52
2:G4:284:THR:HG23	2:G4:326:LEU:HB3	1.92	0.52
2:C4:225:ASN:OD1	2:C4:226:SER:N	2.43	0.52
1:B:250:VAL:O	1:B:254:VAL:HG23	2.09	0.52
1:B:345:GLN:HE22	1:b5:274:VAL:HG13	1.75	0.52
1:B1:65:ARG:NH2	1:b1:41:PRO:HD2	2.24	0.52
1:B1:395:TYR:HD1	1:B1:399:ARG:HH12	1.57	0.52
1:B2:36:ARG:HB3	2:C0:104:PRO:HG3	1.80	0.52
1:b2:355:GLU:HA	1:b2:358:LEU:HG	1.92	0.52
1:B3:417:GLU:OE2	1:B3:439:ARG:NH2	2.43	0.52
1:B4:383:SER:HA	1:B4:386:ARG:CD	2.40	0.52
1:B5:500:ARG:HD3	1:B5:507:PRO:HA	1.90	0.52
2:A0:291:ALA:N	2:D1:316:ARG:HH12	2.08	0.52
2:G0:160:ASN:HD22	2:G0:336:VAL:HG22	1.75	0.52
2:A1:212:LYS:O	2:A1:215:LYS:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G1:316:ARG:NH1	2:C2:294:GLN:OE1	2.42	0.52
2:D1:64:ARG:NH1	2:E1:316:ARG:NH2	2.55	0.52
2:D1:212:LYS:O	2:D1:215:LYS:N	2.43	0.52
2:E1:284:THR:HG23	2:E1:326:LEU:HB3	1.92	0.52
2:A2:291:ALA:N	2:D3:316:ARG:HH12	2.08	0.52
2:G2:284:THR:HG23	2:G2:326:LEU:HB3	1.92	0.52
2:G2:306:LYS:HG3	2:G2:308:TRP:HD1	1.74	0.52
2:D2:284:THR:HG23	2:D2:326:LEU:HB3	1.92	0.52
2:D2:308:TRP:NE1	2:D2:320:MET:HB2	2.20	0.52
2:E2:57:ILE:HG13	2:E2:58:VAL:H	1.74	0.52
2:E2:284:THR:HG23	2:E2:326:LEU:HB3	1.92	0.52
2:C3:21:PRO:HD2	2:C3:128:GLU:CD	2.35	0.52
2:D3:284:THR:HG23	2:D3:326:LEU:HB3	1.92	0.52
2:D3:308:TRP:NE1	2:D3:320:MET:HB2	2.20	0.52
2:G4:21:PRO:HD2	2:G4:128:GLU:CD	2.35	0.52
1:B:208:GLU:HB3	1:B:217:GLN:HA	1.91	0.51
1:b:65:ARG:NH2	1:B1:41:PRO:HD2	2.21	0.51
1:b:417:GLU:OE2	1:b:439:ARG:NH2	2.43	0.51
1:B1:208:GLU:HB3	1:B1:217:GLN:HA	1.91	0.51
1:B2:36:ARG:HA	2:C0:104:PRO:CG	2.39	0.51
1:B3:382:TYR:CD1	1:b3:383:SER:HB3	2.44	0.51
1:B3:500:ARG:HD3	1:B3:507:PRO:HA	1.90	0.51
1:b3:208:GLU:HB3	1:b3:217:GLN:HA	1.91	0.51
1:B5:355:GLU:HA	1:B5:358:LEU:HG	1.92	0.51
1:b5:417:GLU:OE2	1:b5:439:ARG:NH2	2.43	0.51
2:G0:316:ARG:NH1	2:C1:294:GLN:OE1	2.42	0.51
2:C0:101:LEU:HD11	2:C0:110:ARG:HH21	1.75	0.51
2:C0:225:ASN:OD1	2:C0:226:SER:N	2.42	0.51
2:D0:212:LYS:O	2:D0:215:LYS:N	2.43	0.51
2:C1:31:SER:O	2:D1:91:ARG:NH2	2.44	0.51
2:E1:57:ILE:HG13	2:E1:58:VAL:H	1.74	0.51
2:C2:160:ASN:HD22	2:C2:336:VAL:HG22	1.75	0.51
2:D3:276:ASN:HB2	2:E3:263:LYS:HZ3	1.75	0.51
2:E3:22:LEU:HD12	2:E3:26:LEU:HD13	1.92	0.51
2:A4:225:ASN:OD1	2:A4:226:SER:N	2.42	0.51
2:D4:294:GLN:HG3	2:D4:299:ASN:HD22	1.76	0.51
2:F4:212:LYS:O	2:F4:215:LYS:N	2.43	0.51
1:B:190:ARG:CZ	1:b5:212:PRO:HD3	2.40	0.51
1:B:382:TYR:CD1	1:b:383:SER:HB3	2.45	0.51
1:B2:359:LEU:HB2	1:B2:370:TYR:HD2	1.75	0.51
1:B2:486:TYR:HA	1:B2:489:ILE:HG22	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b2:65:ARG:NH2	1:B3:41:PRO:HD2	2.22	0.51
1:B3:208:GLU:HB3	1:B3:217:GLN:HA	1.91	0.51
1:b3:317:TYR:CE2	1:B4:334:MET:SD	3.04	0.51
1:B4:65:ARG:NH2	1:b4:41:PRO:HD2	2.22	0.51
2:A0:212:LYS:O	2:A0:215:LYS:N	2.43	0.51
2:A0:306:LYS:HZ2	2:A0:308:TRP:CD1	2.28	0.51
2:C0:31:SER:O	2:D0:91:ARG:NH2	2.44	0.51
2:D0:294:GLN:HG3	2:D0:299:ASN:HD22	1.76	0.51
2:D0:306:LYS:HG3	2:D0:308:TRP:HD1	1.74	0.51
2:E0:294:GLN:HG3	2:E0:299:ASN:HD22	1.76	0.51
2:G1:21:PRO:HD2	2:G1:128:GLU:CD	2.35	0.51
2:G1:30:GLU:HA	2:C1:91:ARG:NH1	2.25	0.51
2:C1:22:LEU:HD12	2:C1:26:LEU:HD13	1.92	0.51
2:C1:284:THR:HG23	2:C1:326:LEU:HB3	1.92	0.51
2:A2:22:LEU:HD12	2:A2:26:LEU:HD13	1.92	0.51
2:F2:212:LYS:HA	2:F2:215:LYS:HE3	1.93	0.51
2:F2:308:TRP:NE1	2:F2:320:MET:HB2	2.20	0.51
2:A3:294:GLN:HG3	2:A3:299:ASN:HD22	1.76	0.51
2:C3:51:ALA:HB3	2:D3:259:GLU:HA	1.92	0.51
2:C3:225:ASN:OD1	2:C3:226:SER:N	2.42	0.51
2:C3:284:THR:HG23	2:C3:326:LEU:HB3	1.92	0.51
2:C3:306:LYS:HG3	2:C3:308:TRP:HD1	1.74	0.51
2:D3:64:ARG:NH1	2:E3:316:ARG:NH2	2.55	0.51
2:E3:101:LEU:HD11	2:E3:110:ARG:NH2	2.26	0.51
2:C4:306:LYS:HZ2	2:C4:308:TRP:CD1	2.29	0.51
2:D4:22:LEU:HD12	2:D4:26:LEU:HD13	1.92	0.51
2:E4:212:LYS:O	2:E4:215:LYS:N	2.43	0.51
2:F4:284:THR:HG23	2:F4:326:LEU:HB3	1.92	0.51
1:B:151:LEU:HD21	1:B:407:GLN:HE21	1.75	0.51
1:B:417:GLU:OE2	1:B:439:ARG:NH2	2.43	0.51
1:b:383:SER:HA	1:b:386:ARG:CD	2.41	0.51
1:B1:417:GLU:OE2	1:B1:439:ARG:NH2	2.43	0.51
1:B2:383:SER:HA	1:B2:386:ARG:CD	2.41	0.51
1:b2:395:TYR:HD1	1:b2:399:ARG:HH12	1.57	0.51
1:B4:170:ARG:NH2	1:b4:198:SER:O	2.37	0.51
1:B4:500:ARG:HE	1:B4:505:LEU:HB3	1.75	0.51
1:b4:178:SER:OG	1:b4:219:TRP:NE1	2.39	0.51
1:b4:317:TYR:CE2	1:B5:334:MET:SD	3.04	0.51
2:C0:101:LEU:HD11	2:C0:110:ARG:NH2	2.26	0.51
2:D0:22:LEU:HD12	2:D0:26:LEU:HD13	1.92	0.51
2:D0:101:LEU:HD11	2:D0:110:ARG:NH2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F0:222:ARG:HH21	2:F0:241:TYR:HE2	1.57	0.51
2:G1:101:LEU:HD11	2:G1:110:ARG:NH2	2.26	0.51
2:C1:21:PRO:HD2	2:C1:128:GLU:CD	2.35	0.51
2:D1:101:LEU:HD11	2:D1:110:ARG:NH2	2.26	0.51
2:E1:160:ASN:HD22	2:E1:336:VAL:HG22	1.75	0.51
2:E1:294:GLN:HG3	2:E1:299:ASN:HD22	1.76	0.51
2:D2:101:LEU:HD11	2:D2:110:ARG:NH2	2.26	0.51
2:D2:294:GLN:HG3	2:D2:299:ASN:HD22	1.76	0.51
2:D2:306:LYS:HG3	2:D2:308:TRP:HD1	1.74	0.51
2:E2:14:GLU:HB2	2:E2:16:LYS:HZ3	1.74	0.51
2:F2:160:ASN:HD22	2:F2:336:VAL:HG22	1.75	0.51
2:G3:30:GLU:HA	2:C3:91:ARG:NH1	2.25	0.51
2:D3:101:LEU:HD11	2:D3:110:ARG:NH2	2.26	0.51
2:E3:284:THR:HG23	2:E3:326:LEU:HB3	1.92	0.51
2:F3:22:LEU:HD11	2:F3:231:ALA:HB1	1.93	0.51
2:A4:22:LEU:HD11	2:A4:231:ALA:HB1	1.93	0.51
2:G4:209:ARG:HA	2:G4:214:VAL:HG11	1.90	0.51
2:G4:308:TRP:NE1	2:G4:320:MET:HB2	2.20	0.51
2:D4:62:VAL:HG21	2:E4:316:ARG:HG3	1.92	0.51
2:F4:101:LEU:HD11	2:F4:110:ARG:NH2	2.26	0.51
1:b:178:SER:OG	1:b:219:TRP:NE1	2.39	0.51
1:B1:178:SER:OG	1:B1:219:TRP:NE1	2.39	0.51
1:B2:395:TYR:HD1	1:B2:399:ARG:HH12	1.57	0.51
1:b2:417:GLU:OE2	1:b2:439:ARG:NH2	2.43	0.51
1:B3:317:TYR:CE2	1:b3:334:MET:SD	3.04	0.51
2:A0:33:PRO:CG	2:G0:92:ARG:NH2	2.65	0.51
2:G0:306:LYS:HG3	2:G0:308:TRP:HD1	1.74	0.51
2:C0:284:THR:HG23	2:C0:326:LEU:HB3	1.92	0.51
2:F0:160:ASN:HD22	2:F0:336:VAL:HG22	1.76	0.51
2:F0:225:ASN:OD1	2:F0:226:SER:N	2.42	0.51
2:A1:294:GLN:HG3	2:A1:299:ASN:HD22	1.76	0.51
2:A1:306:LYS:HG3	2:A1:308:TRP:HD1	1.74	0.51
2:A1:308:TRP:NE1	2:A1:320:MET:HB2	2.20	0.51
2:C1:22:LEU:HD11	2:C1:231:ALA:HB1	1.93	0.51
2:C1:160:ASN:HD22	2:C1:336:VAL:HG22	1.75	0.51
2:C1:222:ARG:HH21	2:C1:241:TYR:HE2	1.57	0.51
2:D1:212:LYS:HA	2:D1:215:LYS:HE3	1.93	0.51
2:A2:212:LYS:O	2:A2:215:LYS:N	2.43	0.51
2:C2:222:ARG:HH21	2:C2:241:TYR:HE2	1.57	0.51
2:F2:57:ILE:HG13	2:F2:58:VAL:H	1.74	0.51
2:F2:294:GLN:HG3	2:F2:299:ASN:HD22	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:101:LEU:HD11	2:A3:110:ARG:HH21	1.75	0.51
2:A3:212:LYS:HA	2:A3:215:LYS:HE3	1.93	0.51
2:G3:101:LEU:HD11	2:G3:110:ARG:NH2	2.26	0.51
2:C3:198:ILE:HB	2:C3:250:ILE:HD13	1.93	0.51
2:C3:222:ARG:HH21	2:C3:241:TYR:HE2	1.57	0.51
2:D3:62:VAL:HG21	2:E3:316:ARG:HG3	1.92	0.51
2:E3:21:PRO:HD2	2:E3:128:GLU:CD	2.35	0.51
2:A4:294:GLN:HG3	2:A4:299:ASN:HD22	1.76	0.51
2:C4:101:LEU:HD11	2:C4:110:ARG:NH2	2.26	0.51
2:C4:212:LYS:HA	2:C4:215:LYS:HE3	1.93	0.51
1:b1:417:GLU:OE2	1:b1:439:ARG:NH2	2.43	0.51
1:b2:151:LEU:HD21	1:b2:407:GLN:HE21	1.75	0.51
1:B3:176:ARG:NE	1:B3:207:SER:O	2.39	0.51
1:b5:359:LEU:HB2	1:b5:370:TYR:HD2	1.75	0.51
2:A0:101:LEU:HD11	2:A0:110:ARG:NH2	2.26	0.51
2:G0:101:LEU:HD11	2:G0:110:ARG:NH2	2.26	0.51
2:G1:198:ILE:HB	2:G1:250:ILE:HD13	1.93	0.51
2:D1:160:ASN:HD22	2:D1:336:VAL:HG22	1.75	0.51
2:F1:182:ASP:OD1	2:F1:183:ASP:N	2.38	0.51
2:F1:212:LYS:O	2:F1:215:LYS:N	2.43	0.51
2:G2:101:LEU:HD11	2:G2:110:ARG:NH2	2.26	0.51
2:G2:212:LYS:O	2:G2:215:LYS:N	2.43	0.51
2:D2:14:GLU:HB2	2:D2:16:LYS:HZ3	1.76	0.51
2:G3:57:ILE:HG13	2:G3:58:VAL:H	1.74	0.51
2:C3:22:LEU:HD11	2:C3:231:ALA:HB1	1.93	0.51
2:D3:101:LEU:HD11	2:D3:110:ARG:HH21	1.75	0.51
2:F3:212:LYS:HA	2:F3:215:LYS:HE3	1.93	0.51
2:G4:101:LEU:HD11	2:G4:110:ARG:NH2	2.26	0.51
2:C4:22:LEU:HD11	2:C4:231:ALA:HB1	1.93	0.51
2:C4:101:LEU:HD11	2:C4:110:ARG:HH21	1.75	0.51
2:C4:306:LYS:HG3	2:C4:308:TRP:HD1	1.74	0.51
2:D4:22:LEU:HD11	2:D4:231:ALA:HB1	1.93	0.51
2:D4:57:ILE:HG13	2:D4:58:VAL:H	1.74	0.51
2:D4:101:LEU:HD11	2:D4:110:ARG:NH2	2.26	0.51
2:E4:21:PRO:HD2	2:E4:128:GLU:CD	2.35	0.51
2:E4:22:LEU:HD11	2:E4:231:ALA:HB1	1.93	0.51
2:F4:294:GLN:HG3	2:F4:299:ASN:HD22	1.76	0.51
1:b1:265:GLN:CG	1:B2:259:LYS:HZ1	2.24	0.51
1:b1:395:TYR:HD1	1:b1:399:ARG:HH12	1.57	0.51
1:b2:383:SER:HA	1:b2:386:ARG:CD	2.41	0.51
1:B3:355:GLU:HA	1:B3:358:LEU:HG	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:500:ARG:HE	1:B5:505:LEU:HB3	1.75	0.51
1:b5:500:ARG:HD3	1:b5:507:PRO:HA	1.90	0.51
2:G0:30:GLU:HA	2:C0:91:ARG:NH1	2.25	0.51
2:G0:198:ILE:HB	2:G0:250:ILE:HD13	1.93	0.51
2:D0:284:THR:HG23	2:D0:326:LEU:HB3	1.92	0.51
2:F0:101:LEU:HD11	2:F0:110:ARG:NH2	2.26	0.51
2:G1:160:ASN:HD22	2:G1:336:VAL:HG22	1.75	0.51
2:F1:160:ASN:HD22	2:F1:336:VAL:HG22	1.76	0.51
2:F1:212:LYS:HA	2:F1:215:LYS:HE3	1.93	0.51
2:A2:284:THR:HG23	2:A2:326:LEU:HB3	1.92	0.51
2:G2:294:GLN:HG3	2:G2:299:ASN:HD22	1.76	0.51
2:C2:306:LYS:HG3	2:C2:308:TRP:HD1	1.74	0.51
2:F2:101:LEU:HD11	2:F2:110:ARG:NH2	2.26	0.51
2:F2:258:VAL:HG12	2:F2:263:LYS:HB3	1.93	0.51
2:A3:212:LYS:O	2:A3:215:LYS:N	2.43	0.51
2:D3:198:ILE:HB	2:D3:250:ILE:HD13	1.93	0.51
2:D3:294:GLN:HG3	2:D3:299:ASN:HD22	1.76	0.51
2:E3:22:LEU:HD11	2:E3:231:ALA:HB1	1.93	0.51
2:E3:101:LEU:HD11	2:E3:110:ARG:HH21	1.75	0.51
2:E3:212:LYS:HA	2:E3:215:LYS:HE3	1.93	0.51
2:A4:212:LYS:HA	2:A4:215:LYS:HE3	1.93	0.51
2:G4:294:GLN:HG3	2:G4:299:ASN:HD22	1.75	0.51
2:G4:306:LYS:HG3	2:G4:308:TRP:HD1	1.74	0.51
2:C4:212:LYS:O	2:C4:215:LYS:N	2.43	0.51
2:F4:101:LEU:HD11	2:F4:110:ARG:HH21	1.75	0.51
2:F4:198:ILE:HB	2:F4:250:ILE:HD13	1.93	0.51
1:B:41:PRO:HD2	1:b5:65:ARG:NH2	2.23	0.51
1:B:178:SER:OG	1:B:219:TRP:NE1	2.39	0.51
1:b:208:GLU:HB3	1:b:217:GLN:HA	1.91	0.51
1:b1:382:TYR:CD1	1:B2:383:SER:HB3	2.46	0.51
1:b3:65:ARG:NH2	1:B4:41:PRO:HD2	2.23	0.51
1:B4:382:TYR:CD1	1:b4:383:SER:HB3	2.45	0.51
1:B5:178:SER:OG	1:B5:219:TRP:NE1	2.39	0.51
1:B5:359:LEU:HB2	1:B5:370:TYR:HD2	1.75	0.51
1:b5:383:SER:HA	1:b5:386:ARG:CD	2.40	0.51
2:A0:22:LEU:HD11	2:A0:231:ALA:HB1	1.93	0.51
2:A0:235:LEU:HA	2:A0:237:LYS:HZ3	1.75	0.51
2:C0:160:ASN:HD22	2:C0:336:VAL:HG22	1.75	0.51
2:D0:101:LEU:HD11	2:D0:110:ARG:HH21	1.75	0.51
2:D0:316:ARG:HH12	2:A4:291:ALA:N	2.08	0.51
2:G1:22:LEU:HD12	2:G1:26:LEU:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C1:101:LEU:HD11	2:C1:110:ARG:NH2	2.26	0.51
2:D1:22:LEU:HD12	2:D1:26:LEU:HD13	1.92	0.51
2:A2:212:LYS:HA	2:A2:215:LYS:HE3	1.93	0.51
2:G2:101:LEU:HD11	2:G2:110:ARG:HH21	1.75	0.51
2:G2:258:VAL:HG12	2:G2:263:LYS:HB3	1.93	0.51
2:C2:57:ILE:HG13	2:C2:58:VAL:H	1.74	0.51
2:E2:101:LEU:HD11	2:E2:110:ARG:NH2	2.26	0.51
2:E2:212:LYS:HA	2:E2:215:LYS:HE3	1.93	0.51
2:A3:284:THR:HG23	2:A3:326:LEU:HB3	1.92	0.51
2:D3:57:ILE:HG13	2:D3:58:VAL:N	2.26	0.51
2:D3:194:VAL:N	2:E3:263:LYS:HZ1	2.09	0.51
2:F3:160:ASN:HD22	2:F3:336:VAL:HG22	1.75	0.51
2:G4:22:LEU:HD12	2:G4:26:LEU:HD13	1.92	0.51
2:G4:160:ASN:HD22	2:G4:336:VAL:HG22	1.75	0.51
2:C4:198:ILE:HB	2:C4:250:ILE:HD13	1.93	0.51
2:E4:22:LEU:HD12	2:E4:26:LEU:HD13	1.92	0.51
2:E4:101:LEU:HD11	2:E4:110:ARG:NH2	2.26	0.51
2:E4:212:LYS:HA	2:E4:215:LYS:HE3	1.93	0.51
1:b:382:TYR:CD1	1:B1:383:SER:HB3	2.46	0.51
1:B2:417:GLU:OE2	1:B2:439:ARG:NH2	2.43	0.51
1:b2:176:ARG:NE	1:b2:207:SER:O	2.39	0.51
1:b2:359:LEU:HB2	1:b2:370:TYR:HD2	1.75	0.51
1:B3:359:LEU:HB2	1:B3:370:TYR:HD2	1.75	0.51
1:b4:355:GLU:HA	1:b4:358:LEU:HG	1.92	0.51
1:b4:383:SER:HA	1:b4:386:ARG:CD	2.41	0.51
1:b5:176:ARG:NE	1:b5:207:SER:O	2.39	0.51
1:b5:178:SER:OG	1:b5:219:TRP:NE1	2.39	0.51
2:G0:258:VAL:HG12	2:G0:263:LYS:HB3	1.93	0.51
2:C0:306:LYS:HG3	2:C0:308:TRP:HD1	1.74	0.51
2:D0:22:LEU:HD11	2:D0:231:ALA:HB1	1.93	0.51
2:G1:258:VAL:HG12	2:G1:263:LYS:HB3	1.93	0.51
2:E1:57:ILE:HG13	2:E1:58:VAL:N	2.26	0.51
2:F1:198:ILE:HB	2:F1:250:ILE:HD13	1.93	0.51
2:A2:198:ILE:HB	2:A2:250:ILE:HD13	1.93	0.51
2:G2:198:ILE:HB	2:G2:250:ILE:HD13	1.93	0.51
2:G2:212:LYS:HA	2:G2:215:LYS:HE3	1.93	0.51
2:C2:22:LEU:HD12	2:C2:26:LEU:HD13	1.92	0.51
2:C2:22:LEU:HD11	2:C2:231:ALA:HB1	1.93	0.51
2:C2:258:VAL:HG12	2:C2:263:LYS:HB3	1.93	0.51
2:E2:57:ILE:HG13	2:E2:58:VAL:N	2.26	0.51
2:E2:160:ASN:HD22	2:E2:336:VAL:HG22	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F2:22:LEU:HD12	2:F2:26:LEU:HD13	1.92	0.51
2:A3:198:ILE:HB	2:A3:250:ILE:HD13	1.93	0.51
2:C3:22:LEU:HD12	2:C3:26:LEU:HD13	1.92	0.51
2:C3:101:LEU:HD11	2:C3:110:ARG:NH2	2.26	0.51
2:E3:294:GLN:HG3	2:E3:299:ASN:HD22	1.76	0.51
2:F3:294:GLN:HG3	2:F3:299:ASN:HD22	1.76	0.51
2:D4:21:PRO:HD2	2:D4:128:GLU:CD	2.35	0.51
2:E4:294:GLN:HG3	2:E4:299:ASN:HD22	1.76	0.51
2:F4:22:LEU:HD12	2:F4:26:LEU:HD13	1.92	0.51
2:F4:160:ASN:HD22	2:F4:336:VAL:HG22	1.76	0.51
1:B1:383:SER:HA	1:B1:386:ARG:CD	2.41	0.51
1:b1:383:SER:HA	1:b1:386:ARG:CD	2.41	0.51
1:b3:383:SER:HA	1:b3:386:ARG:CD	2.41	0.51
2:G0:284:THR:HG23	2:G0:326:LEU:HB3	1.92	0.51
2:G0:294:GLN:HG3	2:G0:299:ASN:HD22	1.76	0.51
2:C0:57:ILE:HG13	2:C0:58:VAL:N	2.26	0.51
2:D0:57:ILE:HG13	2:D0:58:VAL:H	1.74	0.51
2:D0:64:ARG:NH1	2:E0:316:ARG:NH2	2.55	0.51
2:E0:57:ILE:HG13	2:E0:58:VAL:N	2.26	0.51
2:E0:212:LYS:O	2:E0:215:LYS:N	2.43	0.51
2:E0:284:THR:HG23	2:E0:326:LEU:HB3	1.92	0.51
2:D1:198:ILE:HB	2:D1:250:ILE:HD13	1.93	0.51
2:E1:212:LYS:O	2:E1:215:LYS:N	2.43	0.51
2:E1:306:LYS:HZ2	2:E1:308:TRP:CD1	2.29	0.51
2:F1:258:VAL:HG12	2:F1:263:LYS:HB3	1.93	0.51
2:G2:30:GLU:HA	2:C2:91:ARG:NH1	2.25	0.51
2:D2:57:ILE:HG13	2:D2:58:VAL:N	2.26	0.51
2:D2:212:LYS:O	2:D2:215:LYS:N	2.43	0.51
2:D2:212:LYS:HA	2:D2:215:LYS:HE3	1.93	0.51
2:D2:258:VAL:HG12	2:D2:263:LYS:HB3	1.93	0.51
2:E2:22:LEU:HD12	2:E2:26:LEU:HD13	1.92	0.51
2:F2:198:ILE:HB	2:F2:250:ILE:HD13	1.93	0.51
2:A3:57:ILE:HG13	2:A3:58:VAL:N	2.26	0.51
2:G3:212:LYS:HA	2:G3:215:LYS:HE3	1.93	0.51
2:C3:57:ILE:HG13	2:C3:58:VAL:H	1.74	0.51
2:C3:306:LYS:HZ2	2:C3:308:TRP:CD1	2.29	0.51
2:D3:22:LEU:HD12	2:D3:26:LEU:HD13	1.92	0.51
2:D3:258:VAL:HG12	2:D3:263:LYS:HB3	1.93	0.51
2:E3:56:PRO:HA	2:F3:79:LYS:CE	2.41	0.51
2:F3:57:ILE:HG13	2:F3:58:VAL:N	2.26	0.51
2:A4:284:THR:HG23	2:A4:326:LEU:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:306:LYS:HG3	2:A4:308:TRP:HD1	1.74	0.51
2:G4:258:VAL:HG12	2:G4:263:LYS:HB3	1.93	0.51
2:D4:198:ILE:HB	2:D4:250:ILE:HD13	1.93	0.51
2:E4:284:THR:HG23	2:E4:326:LEU:HB3	1.92	0.51
2:E4:306:LYS:HG3	2:E4:308:TRP:HD1	1.74	0.51
1:b1:317:TYR:CE2	1:B2:334:MET:SD	3.04	0.51
1:b3:355:GLU:HA	1:b3:358:LEU:HG	1.92	0.51
1:b3:382:TYR:CD1	1:B4:383:SER:HB3	2.46	0.51
1:B4:359:LEU:HB2	1:B4:370:TYR:HD2	1.75	0.51
1:b4:359:LEU:HB2	1:b4:370:TYR:HD2	1.75	0.51
2:A0:22:LEU:HD12	2:A0:26:LEU:HD13	1.92	0.51
2:A0:258:VAL:HG12	2:A0:263:LYS:HB3	1.93	0.51
2:C0:55:SER:HB2	2:D0:145:GLU:O	2.11	0.51
2:C0:212:LYS:HA	2:C0:215:LYS:HE3	1.93	0.51
2:D0:212:LYS:HA	2:D0:215:LYS:HE3	1.93	0.51
2:A1:22:LEU:HD12	2:A1:26:LEU:HD13	1.92	0.51
2:A1:101:LEU:HD11	2:A1:110:ARG:NH2	2.26	0.51
2:A1:258:VAL:HG12	2:A1:263:LYS:HB3	1.93	0.51
2:G1:22:LEU:HD11	2:G1:231:ALA:HB1	1.93	0.51
2:D1:57:ILE:HG13	2:D1:58:VAL:N	2.26	0.51
2:D1:306:LYS:HG3	2:D1:308:TRP:HD1	1.74	0.51
2:E1:101:LEU:HD11	2:E1:110:ARG:HH21	1.75	0.51
2:E1:212:LYS:HA	2:E1:215:LYS:HE3	1.93	0.51
2:G2:22:LEU:HD12	2:G2:26:LEU:HD13	1.92	0.51
2:C2:198:ILE:HB	2:C2:250:ILE:HD13	1.93	0.51
2:C2:294:GLN:HG3	2:C2:299:ASN:HD22	1.76	0.51
2:D2:198:ILE:HB	2:D2:250:ILE:HD13	1.93	0.51
2:C3:160:ASN:HD22	2:C3:336:VAL:HG22	1.76	0.51
2:D3:57:ILE:HG13	2:D3:58:VAL:H	1.74	0.51
2:E3:160:ASN:HD22	2:E3:336:VAL:HG22	1.76	0.51
2:A4:22:LEU:HD12	2:A4:26:LEU:HD13	1.92	0.51
2:A4:212:LYS:O	2:A4:215:LYS:N	2.43	0.51
2:D4:258:VAL:HG12	2:D4:263:LYS:HB3	1.93	0.51
2:F4:57:ILE:HG13	2:F4:58:VAL:N	2.26	0.51
1:B:181:ASN:HD21	2:G1:100:ASN:CA	2.23	0.50
1:b1:299:ASN:HA	1:b1:303:GLN:C	2.37	0.50
1:B2:65:ARG:NH2	1:b2:41:PRO:HD2	2.23	0.50
1:B4:355:GLU:HA	1:B4:358:LEU:HG	1.92	0.50
1:B5:383:SER:HA	1:B5:386:ARG:CD	2.41	0.50
2:G0:22:LEU:HD11	2:G0:231:ALA:HB1	1.93	0.50
2:C0:212:LYS:O	2:C0:215:LYS:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D0:57:ILE:HG13	2:D0:58:VAL:N	2.26	0.50
2:A2:33:PRO:CG	2:G2:92:ARG:NH2	2.65	0.50
2:C2:284:THR:HG23	2:C2:326:LEU:HB3	1.92	0.50
2:E2:212:LYS:O	2:E2:215:LYS:N	2.43	0.50
2:E2:294:GLN:HG3	2:E2:299:ASN:HD22	1.76	0.50
2:A3:22:LEU:HD11	2:A3:231:ALA:HB1	1.93	0.50
2:G3:198:ILE:HB	2:G3:250:ILE:HD13	1.93	0.50
2:C3:212:LYS:HA	2:C3:215:LYS:HE3	1.93	0.50
2:F3:212:LYS:O	2:F3:215:LYS:N	2.43	0.50
2:F3:258:VAL:HG12	2:F3:263:LYS:HB3	1.93	0.50
2:A4:57:ILE:HG13	2:A4:58:VAL:N	2.26	0.50
2:D4:284:THR:HG23	2:D4:326:LEU:HB3	1.92	0.50
1:B1:299:ASN:HA	1:B1:303:GLN:C	2.37	0.50
1:B2:299:ASN:HA	1:B2:303:GLN:C	2.37	0.50
1:b3:176:ARG:NE	1:b3:207:SER:O	2.39	0.50
1:b5:151:LEU:HD21	1:b5:407:GLN:HE21	1.75	0.50
2:A0:284:THR:HG23	2:A0:326:LEU:HB3	1.92	0.50
2:C0:198:ILE:HB	2:C0:250:ILE:HD13	1.93	0.50
2:G1:122:ALA:O	2:G1:125:GLN:HG3	2.12	0.50
2:G1:284:THR:HG23	2:G1:326:LEU:HB3	1.92	0.50
2:C1:198:ILE:HB	2:C1:250:ILE:HD13	1.93	0.50
2:D1:258:VAL:HG12	2:D1:263:LYS:HB3	1.93	0.50
2:F1:294:GLN:HG3	2:F1:299:ASN:HD22	1.76	0.50
2:A2:101:LEU:HD11	2:A2:110:ARG:NH2	2.26	0.50
2:A2:294:GLN:HG3	2:A2:299:ASN:HD22	1.76	0.50
2:G2:57:ILE:HG13	2:G2:58:VAL:N	2.26	0.50
2:D3:122:ALA:O	2:D3:125:GLN:HG3	2.12	0.50
2:E3:14:GLU:HB2	2:E3:16:LYS:HZ3	1.74	0.50
2:F3:122:ALA:O	2:F3:125:GLN:HG3	2.11	0.50
2:A4:101:LEU:HD11	2:A4:110:ARG:NH2	2.26	0.50
2:A4:160:ASN:HD22	2:A4:336:VAL:HG22	1.75	0.50
2:G4:30:GLU:HA	2:C4:91:ARG:NH1	2.25	0.50
2:G4:198:ILE:HB	2:G4:250:ILE:HD13	1.93	0.50
2:C4:55:SER:HB2	2:D4:145:GLU:O	2.11	0.50
2:C4:160:ASN:HD22	2:C4:336:VAL:HG22	1.76	0.50
2:C4:308:TRP:NE1	2:C4:320:MET:HB2	2.20	0.50
1:B:383:SER:HA	1:B:386:ARG:CD	2.41	0.50
1:b:299:ASN:HA	1:b:303:GLN:C	2.37	0.50
1:B1:457:GLY:HA3	1:b1:459:LYS:NZ	2.27	0.50
1:b1:178:SER:OG	1:b1:219:TRP:NE1	2.39	0.50
1:B2:382:TYR:CD1	1:b2:383:SER:HB3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b2:299:ASN:HA	1:b2:303:GLN:C	2.37	0.50
1:B3:383:SER:HA	1:B3:386:ARG:CD	2.41	0.50
1:b3:359:LEU:HB2	1:b3:370:TYR:HD2	1.75	0.50
1:b5:113:ALA:O	1:b5:116:LYS:HG3	2.12	0.50
2:A0:212:LYS:HA	2:A0:215:LYS:HE3	1.93	0.50
2:G0:22:LEU:HD12	2:G0:26:LEU:HD13	1.92	0.50
2:G0:316:ARG:NH1	2:C1:291:ALA:N	2.60	0.50
2:C0:122:ALA:O	2:C0:125:GLN:HG3	2.12	0.50
2:E0:160:ASN:HD22	2:E0:336:VAL:HG22	1.75	0.50
2:E0:258:VAL:HG12	2:E0:263:LYS:HB3	1.93	0.50
2:F0:122:ALA:O	2:F0:125:GLN:HG3	2.12	0.50
2:F0:294:GLN:HG3	2:F0:299:ASN:HD22	1.76	0.50
2:A1:194:VAL:H	2:G1:263:LYS:HZ2	1.59	0.50
2:A1:198:ILE:HB	2:A1:250:ILE:HD13	1.93	0.50
2:A1:212:LYS:HA	2:A1:215:LYS:HE3	1.93	0.50
2:G1:316:ARG:NH1	2:C2:291:ALA:N	2.60	0.50
2:D1:308:TRP:NE1	2:D1:320:MET:HB2	2.20	0.50
2:E1:22:LEU:HD12	2:E1:26:LEU:HD13	1.92	0.50
2:E1:198:ILE:HB	2:E1:250:ILE:HD13	1.93	0.50
2:F1:101:LEU:HD11	2:F1:110:ARG:NH2	2.26	0.50
2:A2:57:ILE:HG13	2:A2:58:VAL:N	2.26	0.50
2:G2:316:ARG:NH1	2:C3:291:ALA:N	2.60	0.50
2:C2:101:LEU:HD11	2:C2:110:ARG:NH2	2.26	0.50
2:E2:122:ALA:O	2:E2:125:GLN:HG3	2.12	0.50
2:A3:101:LEU:HD11	2:A3:110:ARG:NH2	2.26	0.50
2:A3:291:ALA:N	2:D4:316:ARG:HH12	2.08	0.50
2:G3:258:VAL:HG12	2:G3:263:LYS:HB3	1.93	0.50
2:G3:316:ARG:NH1	2:C4:291:ALA:N	2.60	0.50
2:C3:31:SER:O	2:D3:91:ARG:NH2	2.43	0.50
2:C3:212:LYS:O	2:C3:215:LYS:N	2.43	0.50
2:C3:258:VAL:HG12	2:C3:263:LYS:HB3	1.93	0.50
2:C3:294:GLN:HG3	2:C3:299:ASN:HD22	1.75	0.50
2:F3:22:LEU:HD12	2:F3:26:LEU:HD13	1.92	0.50
2:C4:122:ALA:O	2:C4:125:GLN:HG3	2.12	0.50
2:D4:101:LEU:HD11	2:D4:110:ARG:HH21	1.75	0.50
2:E4:56:PRO:HA	2:F4:79:LYS:CE	2.41	0.50
2:E4:160:ASN:HD22	2:E4:336:VAL:HG22	1.75	0.50
2:E4:198:ILE:HB	2:E4:250:ILE:HD13	1.93	0.50
2:E4:258:VAL:HG12	2:E4:263:LYS:HB3	1.93	0.50
1:B1:113:ALA:O	1:B1:116:LYS:HG3	2.12	0.50
1:B1:158:ASP:OD2	1:B1:163:ARG:NH1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:317:TYR:CE2	1:b1:334:MET:SD	3.05	0.50
1:b1:395:TYR:HB3	1:b1:399:ARG:NH1	2.27	0.50
1:b3:158:ASP:OD2	1:b3:163:ARG:NH1	2.45	0.50
1:b4:65:ARG:NH2	1:B5:41:PRO:HD2	2.23	0.50
2:D0:308:TRP:NE1	2:D0:320:MET:HB2	2.20	0.50
2:E0:22:LEU:HD12	2:E0:26:LEU:HD13	1.92	0.50
2:F0:212:LYS:HA	2:F0:215:LYS:HE3	1.93	0.50
2:A1:22:LEU:HD11	2:A1:231:ALA:HB1	1.93	0.50
2:A1:122:ALA:O	2:A1:125:GLN:HG3	2.12	0.50
2:A1:160:ASN:HD22	2:A1:336:VAL:HG22	1.76	0.50
2:C1:57:ILE:HG13	2:C1:58:VAL:N	2.26	0.50
2:D1:62:VAL:HG21	2:E1:316:ARG:HG3	1.92	0.50
2:F1:14:GLU:HB2	2:F1:16:LYS:HZ1	1.76	0.50
2:F1:22:LEU:HD12	2:F1:26:LEU:HD13	1.92	0.50
2:G2:22:LEU:HD11	2:G2:231:ALA:HB1	1.93	0.50
2:C2:31:SER:O	2:D2:91:ARG:NH2	2.44	0.50
2:F2:212:LYS:O	2:F2:215:LYS:N	2.43	0.50
2:F2:284:THR:HG23	2:F2:326:LEU:HB3	1.92	0.50
2:G3:122:ALA:O	2:G3:125:GLN:HG3	2.12	0.50
2:G3:160:ASN:HD22	2:G3:336:VAL:HG22	1.75	0.50
2:G3:294:GLN:HG3	2:G3:299:ASN:HD22	1.76	0.50
2:C3:57:ILE:HG13	2:C3:58:VAL:N	2.26	0.50
2:E3:122:ALA:O	2:E3:125:GLN:HG3	2.12	0.50
2:F3:198:ILE:HB	2:F3:250:ILE:HD13	1.93	0.50
2:F3:284:THR:HG23	2:F3:326:LEU:HB3	1.92	0.50
2:D4:306:LYS:HZ2	2:D4:308:TRP:CD1	2.29	0.50
2:F4:212:LYS:HA	2:F4:215:LYS:HE3	1.93	0.50
1:B:299:ASN:HA	1:B:303:GLN:C	2.37	0.50
1:B1:261:LEU:O	1:B1:265:GLN:HB2	2.12	0.50
1:b1:105:ARG:NH1	1:b1:109:ARG:HG3	2.27	0.50
1:b2:105:ARG:NH1	1:b2:109:ARG:HG3	2.27	0.50
1:b2:158:ASP:OD2	1:b2:163:ARG:NH1	2.45	0.50
1:b2:318:TYR:OH	1:b2:333:LEU:O	2.20	0.50
1:B3:158:ASP:OD2	1:B3:163:ARG:NH1	2.45	0.50
1:B4:151:LEU:HD21	1:B4:407:GLN:HE21	1.74	0.50
1:B4:158:ASP:OD2	1:B4:163:ARG:NH1	2.45	0.50
2:A0:294:GLN:HG3	2:A0:299:ASN:HD22	1.76	0.50
2:C0:24:LEU:O	2:C0:283:ARG:NH1	2.45	0.50
2:C0:291:ALA:N	2:G4:316:ARG:NH1	2.60	0.50
2:D0:160:ASN:HD22	2:D0:336:VAL:HG22	1.75	0.50
2:D0:258:VAL:HG12	2:D0:263:LYS:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E0:30:GLU:HB2	2:E0:280:ARG:CZ	2.42	0.50
2:E0:56:PRO:HA	2:F0:79:LYS:CE	2.41	0.50
2:E0:212:LYS:HA	2:E0:215:LYS:HE3	1.93	0.50
2:F0:22:LEU:HD12	2:F0:26:LEU:HD13	1.92	0.50
2:F0:258:VAL:HG12	2:F0:263:LYS:HB3	1.93	0.50
2:C1:24:LEU:O	2:C1:283:ARG:NH1	2.45	0.50
2:D1:22:LEU:HD11	2:D1:231:ALA:HB1	1.92	0.50
2:D1:294:GLN:HG3	2:D1:299:ASN:HD22	1.76	0.50
2:E1:22:LEU:HD11	2:E1:231:ALA:HB1	1.93	0.50
2:E1:56:PRO:HA	2:F1:79:LYS:CE	2.41	0.50
2:F1:122:ALA:O	2:F1:125:GLN:HG3	2.12	0.50
2:F1:284:THR:HG23	2:F1:326:LEU:HB3	1.92	0.50
2:C2:122:ALA:O	2:C2:125:GLN:HG3	2.12	0.50
2:D2:160:ASN:HD22	2:D2:336:VAL:HG22	1.75	0.50
2:E2:198:ILE:HB	2:E2:250:ILE:HD13	1.93	0.50
2:G3:22:LEU:HD11	2:G3:231:ALA:HB1	1.93	0.50
2:A4:235:LEU:HA	2:A4:237:LYS:HZ3	1.76	0.50
2:C4:30:GLU:HB2	2:C4:280:ARG:CZ	2.42	0.50
2:D4:57:ILE:HG13	2:D4:58:VAL:N	2.26	0.50
2:E4:30:GLU:HB2	2:E4:280:ARG:CZ	2.42	0.50
1:b:395:TYR:HB3	1:b:399:ARG:NH1	2.27	0.50
1:b1:63:LEU:HD21	1:b1:251:PHE:HA	1.94	0.50
1:b1:158:ASP:OD2	1:b1:163:ARG:NH1	2.45	0.50
1:B2:158:ASP:OD2	1:B2:163:ARG:NH1	2.45	0.50
1:B3:299:ASN:HA	1:B3:303:GLN:C	2.37	0.50
1:B4:395:TYR:HB3	1:B4:399:ARG:NH1	2.27	0.50
1:b4:158:ASP:OD2	1:b4:163:ARG:NH1	2.45	0.50
1:b4:212:PRO:HD3	1:B5:190:ARG:CZ	2.42	0.50
1:B5:170:ARG:NH2	1:b5:198:SER:O	2.37	0.50
1:b5:395:TYR:HB3	1:b5:399:ARG:NH1	2.27	0.50
2:A0:30:GLU:HB2	2:A0:280:ARG:CZ	2.42	0.50
2:A0:57:ILE:HG13	2:A0:58:VAL:N	2.26	0.50
2:G0:24:LEU:O	2:G0:283:ARG:NH1	2.45	0.50
2:D0:198:ILE:HB	2:D0:250:ILE:HD13	1.93	0.50
2:F0:22:LEU:HD11	2:F0:231:ALA:HB1	1.93	0.50
2:F0:30:GLU:HB2	2:F0:280:ARG:CZ	2.42	0.50
2:F0:284:THR:HG23	2:F0:326:LEU:HB3	1.92	0.50
2:C1:212:LYS:HA	2:C1:215:LYS:HE3	1.93	0.50
2:E1:101:LEU:HD11	2:E1:110:ARG:NH2	2.26	0.50
2:E1:227:GLU:OE1	2:E1:227:GLU:N	2.44	0.50
2:A2:160:ASN:HD22	2:A2:336:VAL:HG22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G2:160:ASN:HD22	2:G2:336:VAL:HG22	1.75	0.50
2:F2:22:LEU:HD11	2:F2:231:ALA:HB1	1.93	0.50
2:A3:160:ASN:HD22	2:A3:336:VAL:HG22	1.75	0.50
2:G3:284:THR:HG23	2:G3:326:LEU:HB3	1.92	0.50
2:C3:55:SER:HB2	2:D3:145:GLU:O	2.11	0.50
2:D3:22:LEU:HD11	2:D3:231:ALA:HB1	1.92	0.50
2:D3:212:LYS:HA	2:D3:215:LYS:HE3	1.93	0.50
2:E3:222:ARG:HH21	2:E3:241:TYR:HE2	1.57	0.50
2:G4:57:ILE:HG13	2:G4:58:VAL:N	2.26	0.50
2:G4:122:ALA:O	2:G4:125:GLN:HG3	2.12	0.50
2:C4:284:THR:HG23	2:C4:326:LEU:HB3	1.92	0.50
1:b:158:ASP:OD2	1:b:163:ARG:NH1	2.45	0.50
1:B1:382:TYR:CD1	1:b1:383:SER:HB3	2.47	0.50
1:b2:382:TYR:CD1	1:B3:383:SER:HB3	2.47	0.50
1:B5:317:TYR:CE2	1:b5:334:MET:SD	3.05	0.50
2:C0:163:THR:HB	2:C0:339:GLN:NE2	2.25	0.50
2:E0:24:LEU:O	2:E0:283:ARG:NH1	2.45	0.50
2:G1:212:LYS:HA	2:G1:215:LYS:HE3	1.93	0.50
2:C1:55:SER:HB2	2:D1:145:GLU:O	2.11	0.50
2:D1:284:THR:HG23	2:D1:326:LEU:HB3	1.92	0.50
2:E1:163:THR:HB	2:E1:339:GLN:NE2	2.25	0.50
2:F1:57:ILE:HG13	2:F1:58:VAL:N	2.26	0.50
2:A2:122:ALA:O	2:A2:125:GLN:HG3	2.12	0.50
2:F2:24:LEU:O	2:F2:283:ARG:NH1	2.45	0.50
2:F2:30:GLU:HB2	2:F2:280:ARG:CZ	2.42	0.50
2:A3:22:LEU:HD12	2:A3:26:LEU:HD13	1.92	0.50
2:C3:24:LEU:O	2:C3:283:ARG:NH1	2.45	0.50
2:D3:24:LEU:O	2:D3:283:ARG:NH1	2.45	0.50
2:F3:24:LEU:O	2:F3:283:ARG:NH1	2.45	0.50
2:F3:30:GLU:HB2	2:F3:280:ARG:CZ	2.42	0.50
2:F3:101:LEU:HD11	2:F3:110:ARG:NH2	2.26	0.50
2:A4:163:THR:HB	2:A4:339:GLN:NE2	2.26	0.50
2:C4:57:ILE:HG13	2:C4:58:VAL:N	2.26	0.50
1:B:88:LEU:HB2	1:B:447:TRP:CH2	2.47	0.50
1:B2:265:GLN:CG	1:b2:259:LYS:HZ1	2.25	0.50
1:b2:88:LEU:HB2	1:b2:447:TRP:CH2	2.47	0.50
1:B4:187:ARG:O	1:B4:190:ARG:NE	2.45	0.50
1:b4:113:ALA:O	1:b4:116:LYS:HG3	2.12	0.50
1:b4:395:TYR:HB3	1:b4:399:ARG:NH1	2.27	0.50
2:A0:122:ALA:O	2:A0:125:GLN:HG3	2.12	0.50
2:A1:57:ILE:HG13	2:A1:58:VAL:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:220:THR:HG21	2:F1:217:LYS:CE	2.37	0.50
2:G1:30:GLU:HB2	2:G1:280:ARG:CZ	2.42	0.50
2:E1:30:GLU:HB2	2:E1:280:ARG:CZ	2.42	0.50
2:A2:24:LEU:O	2:A2:283:ARG:NH1	2.45	0.50
2:A2:220:THR:HG21	2:F2:217:LYS:CE	2.37	0.50
2:A2:258:VAL:HG12	2:A2:263:LYS:HB3	1.93	0.50
2:G2:30:GLU:HB2	2:G2:280:ARG:CZ	2.42	0.50
2:C2:57:ILE:HG13	2:C2:58:VAL:N	2.26	0.50
2:G3:24:LEU:O	2:G3:283:ARG:NH1	2.45	0.50
2:G3:57:ILE:HG13	2:G3:58:VAL:N	2.26	0.50
2:E3:24:LEU:O	2:E3:283:ARG:NH1	2.45	0.50
2:E3:30:GLU:HB2	2:E3:280:ARG:CZ	2.42	0.50
2:A4:227:GLU:O	2:A4:230:THR:OG1	2.26	0.50
2:G4:24:LEU:O	2:G4:283:ARG:NH1	2.45	0.50
2:C4:294:GLN:HG3	2:C4:299:ASN:HD22	1.76	0.50
2:E4:24:LEU:O	2:E4:283:ARG:NH1	2.45	0.50
1:B:334:MET:SD	1:b5:317:TYR:CE2	3.05	0.50
1:B1:395:TYR:HB3	1:B1:399:ARG:NH1	2.27	0.50
1:b1:187:ARG:O	1:b1:190:ARG:NE	2.45	0.50
1:B2:176:ARG:NE	1:B2:207:SER:O	2.39	0.50
1:B2:261:LEU:O	1:B2:265:GLN:HB2	2.12	0.50
1:b2:261:LEU:O	1:b2:265:GLN:HB2	2.12	0.50
1:B3:212:PRO:HD3	1:b3:190:ARG:CZ	2.41	0.50
1:b3:88:LEU:HB2	1:b3:447:TRP:CH2	2.47	0.50
1:b3:105:ARG:NH1	1:b3:109:ARG:HG3	2.27	0.50
1:B4:176:ARG:NE	1:B4:207:SER:O	2.39	0.50
1:b4:299:ASN:HA	1:b4:303:GLN:C	2.37	0.50
1:b5:88:LEU:HB2	1:b5:447:TRP:CH2	2.47	0.50
2:G0:57:ILE:HG13	2:G0:58:VAL:N	2.26	0.50
2:D0:30:GLU:HB2	2:D0:280:ARG:CZ	2.42	0.50
2:E0:22:LEU:HD11	2:E0:231:ALA:HB1	1.93	0.50
2:A1:30:GLU:HB2	2:A1:280:ARG:CZ	2.42	0.50
2:A1:284:THR:HG23	2:A1:326:LEU:HB3	1.92	0.50
2:C1:30:GLU:HB2	2:C1:280:ARG:CZ	2.42	0.50
2:C1:57:ILE:HG13	2:C1:58:VAL:H	1.74	0.50
2:C1:258:VAL:HG12	2:C1:263:LYS:HB3	1.93	0.50
2:D1:30:GLU:HB2	2:D1:280:ARG:CZ	2.42	0.50
2:F1:22:LEU:HD11	2:F1:231:ALA:HB1	1.93	0.50
2:F4:22:LEU:HD11	2:F4:231:ALA:HB1	1.93	0.50
2:F4:258:VAL:HG12	2:F4:263:LYS:HB3	1.93	0.50
1:b:88:LEU:HB2	1:b:447:TRP:CH2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:113:ALA:O	1:b:116:LYS:HG3	2.12	0.49
1:b2:395:TYR:HB3	1:b2:399:ARG:NH1	2.27	0.49
1:B3:65:ARG:NH2	1:b3:41:PRO:HD2	2.24	0.49
1:B3:113:ALA:O	1:B3:116:LYS:HG3	2.12	0.49
1:B3:151:LEU:HD21	1:B3:407:GLN:HE21	1.74	0.49
1:B3:395:TYR:HB3	1:B3:399:ARG:NH1	2.27	0.49
1:b4:318:TYR:OH	1:b4:333:LEU:O	2.20	0.49
1:B5:151:LEU:HD21	1:B5:407:GLN:HE21	1.74	0.49
1:B5:382:TYR:CD1	1:b5:383:SER:HB3	2.47	0.49
1:B5:395:TYR:HB3	1:B5:399:ARG:NH1	2.27	0.49
2:G0:212:LYS:HA	2:G0:215:LYS:HE3	1.93	0.49
2:D0:62:VAL:HG21	2:E0:316:ARG:HG3	1.92	0.49
2:E0:101:LEU:HD11	2:E0:110:ARG:NH2	2.26	0.49
2:E0:122:ALA:O	2:E0:125:GLN:HG3	2.12	0.49
2:F0:198:ILE:HB	2:F0:250:ILE:HD13	1.93	0.49
2:A1:33:PRO:CG	2:G1:92:ARG:NH2	2.65	0.49
2:G1:57:ILE:HG13	2:G1:58:VAL:N	2.26	0.49
2:G1:294:GLN:HG3	2:G1:299:ASN:HD22	1.76	0.49
2:C1:122:ALA:O	2:C1:125:GLN:HG3	2.12	0.49
2:D1:24:LEU:O	2:D1:283:ARG:NH1	2.45	0.49
2:E1:24:LEU:O	2:E1:283:ARG:NH1	2.45	0.49
2:F1:227:GLU:OE1	2:F1:227:GLU:N	2.44	0.49
2:C2:55:SER:HB2	2:D2:145:GLU:O	2.11	0.49
2:C2:212:LYS:HA	2:C2:215:LYS:HE3	1.93	0.49
2:D2:122:ALA:O	2:D2:125:GLN:HG3	2.12	0.49
2:E2:22:LEU:HD11	2:E2:231:ALA:HB1	1.93	0.49
2:C3:30:GLU:HB2	2:C3:280:ARG:CZ	2.42	0.49
2:C3:122:ALA:O	2:C3:125:GLN:HG3	2.12	0.49
2:E3:57:ILE:HG13	2:E3:58:VAL:N	2.26	0.49
2:A4:258:VAL:HG12	2:A4:263:LYS:HB3	1.93	0.49
2:G4:22:LEU:HD11	2:G4:231:ALA:HB1	1.93	0.49
2:D4:160:ASN:HD22	2:D4:336:VAL:HG22	1.76	0.49
2:D4:212:LYS:HA	2:D4:215:LYS:HE3	1.93	0.49
2:E4:122:ALA:O	2:E4:125:GLN:HG3	2.12	0.49
1:B:113:ALA:O	1:B:116:LYS:HG3	2.12	0.49
1:B:395:TYR:HB3	1:B:399:ARG:NH1	2.27	0.49
1:b1:170:ARG:NH2	1:B2:198:SER:O	2.39	0.49
1:B2:113:ALA:O	1:B2:116:LYS:HG3	2.12	0.49
1:B2:395:TYR:HB3	1:B2:399:ARG:NH1	2.27	0.49
1:b3:178:SER:OG	1:b3:219:TRP:NE1	2.39	0.49
1:b4:88:LEU:HB2	1:b4:447:TRP:CH2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b4:151:LEU:HD21	1:b4:407:GLN:HE21	1.74	0.49
1:B5:88:LEU:HB2	1:B5:447:TRP:CH2	2.47	0.49
1:B5:158:ASP:OD2	1:B5:163:ARG:NH1	2.45	0.49
1:b5:299:ASN:HA	1:b5:303:GLN:C	2.37	0.49
2:C0:22:LEU:HD11	2:C0:231:ALA:HB1	1.93	0.49
2:D0:7:ALA:HB2	2:D0:309:VAL:HG23	1.95	0.49
2:D0:163:THR:HB	2:D0:339:GLN:NE2	2.25	0.49
2:E0:235:LEU:HA	2:E0:237:LYS:HZ3	1.78	0.49
2:F0:24:LEU:O	2:F0:283:ARG:NH1	2.45	0.49
2:E1:122:ALA:O	2:E1:125:GLN:HG3	2.12	0.49
2:G2:24:LEU:O	2:G2:283:ARG:NH1	2.45	0.49
2:D2:62:VAL:HG21	2:E2:316:ARG:HG3	1.92	0.49
2:E2:30:GLU:HB2	2:E2:280:ARG:CZ	2.42	0.49
2:E2:56:PRO:HA	2:F2:79:LYS:CE	2.41	0.49
2:A3:7:ALA:HB2	2:A3:309:VAL:HG23	1.95	0.49
2:A3:306:LYS:HG3	2:A3:308:TRP:HD1	1.74	0.49
2:G3:30:GLU:HB2	2:G3:280:ARG:CZ	2.42	0.49
2:F3:28:PHE:HA	2:F3:281:GLY:HA3	1.94	0.49
2:A4:122:ALA:O	2:A4:125:GLN:HG3	2.12	0.49
2:G4:212:LYS:HA	2:G4:215:LYS:HE3	1.93	0.49
2:C4:258:VAL:HG12	2:C4:263:LYS:HB3	1.93	0.49
2:D4:122:ALA:O	2:D4:125:GLN:HG3	2.12	0.49
2:F4:30:GLU:HB2	2:F4:280:ARG:CZ	2.42	0.49
1:B:187:ARG:HA	1:b5:212:PRO:HG3	1.93	0.49
1:B:261:LEU:O	1:B:265:GLN:HB2	2.12	0.49
1:b:105:ARG:NH1	1:b:109:ARG:HG3	2.27	0.49
1:b:209:ASP:OD1	1:b:210:GLY:N	2.46	0.49
1:B1:209:ASP:OD1	1:B1:210:GLY:N	2.46	0.49
1:b1:88:LEU:HB2	1:b1:447:TRP:CH2	2.47	0.49
1:b3:261:LEU:O	1:b3:265:GLN:HB2	2.12	0.49
1:b3:299:ASN:HA	1:b3:303:GLN:C	2.37	0.49
1:b3:459:LYS:O	1:b3:463:GLU:HG2	2.12	0.49
1:B4:318:TYR:OH	1:B4:333:LEU:O	2.20	0.49
1:b4:250:VAL:HG22	1:b4:254:VAL:HG21	1.95	0.49
1:B5:250:VAL:HG22	1:B5:254:VAL:HG21	1.95	0.49
1:b5:370:TYR:C	1:b5:372:GLN:N	2.71	0.49
2:A0:24:LEU:O	2:A0:283:ARG:NH1	2.45	0.49
2:A0:198:ILE:HB	2:A0:250:ILE:HD13	1.93	0.49
2:G0:28:PHE:HA	2:G0:281:GLY:HA3	1.94	0.49
2:C0:30:GLU:HB2	2:C0:280:ARG:CZ	2.42	0.49
2:D0:306:LYS:HZ2	2:D0:308:TRP:CD1	2.29	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F0:7:ALA:HB2	2:F0:309:VAL:HG23	1.95	0.49
2:C1:247:ASP:HA	2:D1:222:ARG:HH22	1.77	0.49
2:C1:294:GLN:HG3	2:C1:299:ASN:HD22	1.76	0.49
2:F1:30:GLU:HB2	2:F1:280:ARG:CZ	2.42	0.49
2:A2:22:LEU:HD11	2:A2:231:ALA:HB1	1.93	0.49
2:C2:24:LEU:O	2:C2:283:ARG:NH1	2.45	0.49
2:A3:121:LEU:CD1	2:F3:50:MET:SD	3.00	0.49
2:G3:192:SER:C	2:C3:256:GLN:HE22	2.21	0.49
2:C3:50:MET:HB3	2:D3:258:VAL:CG2	2.42	0.49
2:C4:7:ALA:HB2	2:C4:309:VAL:HG23	1.95	0.49
2:C4:31:SER:O	2:D4:91:ARG:NH2	2.43	0.49
2:D4:24:LEU:O	2:D4:283:ARG:NH1	2.45	0.49
1:B:63:LEU:HD21	1:B:251:PHE:HA	1.94	0.49
1:B:158:ASP:OD2	1:B:163:ARG:NH1	2.45	0.49
1:B2:105:ARG:NH1	1:B2:109:ARG:HG3	2.27	0.49
1:B3:80:HIS:CE1	1:b3:395:TYR:OH	2.66	0.49
1:B3:370:TYR:C	1:B3:372:GLN:N	2.70	0.49
1:b3:113:ALA:O	1:b3:116:LYS:HG3	2.12	0.49
1:b3:209:ASP:OD1	1:b3:210:GLY:N	2.46	0.49
1:b3:318:TYR:OH	1:b3:333:LEU:O	2.20	0.49
1:B4:113:ALA:O	1:B4:116:LYS:HG3	2.12	0.49
1:B5:65:ARG:NH2	1:b5:41:PRO:HD2	2.23	0.49
1:B5:176:ARG:NE	1:B5:207:SER:O	2.39	0.49
1:B5:261:LEU:O	1:B5:265:GLN:HB2	2.12	0.49
2:G0:192:SER:C	2:C0:256:GLN:HE22	2.21	0.49
2:E0:198:ILE:HB	2:E0:250:ILE:HD13	1.93	0.49
2:A1:24:LEU:O	2:A1:283:ARG:NH1	2.45	0.49
2:G2:28:PHE:HA	2:G2:281:GLY:HA3	1.95	0.49
2:G2:122:ALA:O	2:G2:125:GLN:HG3	2.12	0.49
2:G2:192:SER:C	2:C2:256:GLN:HE22	2.21	0.49
2:E2:227:GLU:OE1	2:E2:227:GLU:N	2.44	0.49
2:F2:122:ALA:O	2:F2:125:GLN:HG3	2.12	0.49
2:A3:122:ALA:O	2:A3:125:GLN:HG3	2.12	0.49
2:D3:53:TYR:OH	2:E3:145:GLU:O	2.28	0.49
2:E3:308:TRP:NE1	2:E3:320:MET:HB2	2.20	0.49
2:F3:227:GLU:OE1	2:F3:227:GLU:N	2.44	0.49
2:A4:24:LEU:O	2:A4:283:ARG:NH1	2.45	0.49
2:A4:30:GLU:HB2	2:A4:280:ARG:CZ	2.42	0.49
2:A4:198:ILE:HB	2:A4:250:ILE:HD13	1.93	0.49
2:G4:30:GLU:HB2	2:G4:280:ARG:CZ	2.42	0.49
2:C4:24:LEU:O	2:C4:283:ARG:NH1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E4:28:PHE:HA	2:E4:281:GLY:HA3	1.95	0.49
2:E4:57:ILE:HG13	2:E4:58:VAL:N	2.26	0.49
1:B2:36:ARG:HB2	2:C0:104:PRO:HG2	1.83	0.49
1:B3:105:ARG:NH1	1:B3:109:ARG:HG3	2.27	0.49
1:B3:457:GLY:HA3	1:b3:459:LYS:NZ	2.28	0.49
1:B4:63:LEU:HD21	1:B4:251:PHE:HA	1.94	0.49
1:b4:176:ARG:NE	1:b4:207:SER:O	2.39	0.49
1:b4:459:LYS:O	1:b4:463:GLU:HG2	2.12	0.49
1:B5:63:LEU:HD21	1:B5:251:PHE:HA	1.94	0.49
1:B5:299:ASN:HA	1:B5:303:GLN:C	2.37	0.49
1:b5:261:LEU:O	1:b5:265:GLN:HB2	2.12	0.49
1:b5:370:TYR:HA	1:b5:373:LEU:HB2	1.95	0.49
2:A0:28:PHE:HA	2:A0:281:GLY:HA3	1.95	0.49
2:A0:160:ASN:HD22	2:A0:336:VAL:HG22	1.76	0.49
2:C0:7:ALA:HB2	2:C0:309:VAL:HG23	1.94	0.49
2:G1:24:LEU:O	2:G1:283:ARG:NH1	2.45	0.49
2:G1:192:SER:C	2:C1:256:GLN:HE22	2.21	0.49
2:E1:258:VAL:HG12	2:E1:263:LYS:HB3	1.93	0.49
2:F2:57:ILE:HG13	2:F2:58:VAL:N	2.26	0.49
2:C3:7:ALA:HB2	2:C3:309:VAL:HG23	1.95	0.49
2:D3:306:LYS:HZ2	2:D3:308:TRP:CD1	2.31	0.49
2:E3:258:VAL:HG12	2:E3:263:LYS:HB3	1.93	0.49
2:G4:14:GLU:HB2	2:G4:16:LYS:HZ3	1.77	0.49
2:C4:247:ASP:HA	2:D4:222:ARG:HH22	1.77	0.49
2:D4:30:GLU:HB2	2:D4:280:ARG:CZ	2.42	0.49
2:F4:24:LEU:O	2:F4:283:ARG:NH1	2.45	0.49
1:B:85:PHE:CE2	1:B:87:ARG:HB2	2.48	0.49
1:B:209:ASP:OD1	1:B:210:GLY:N	2.46	0.49
1:B:457:GLY:HA3	1:b:459:LYS:NZ	2.28	0.49
1:b:63:LEU:HD21	1:b:251:PHE:HA	1.94	0.49
1:b:261:LEU:O	1:b:265:GLN:HB2	2.12	0.49
1:B1:63:LEU:HD21	1:B1:251:PHE:HA	1.94	0.49
1:b1:85:PHE:CE2	1:b1:87:ARG:HB2	2.48	0.49
1:b1:250:VAL:HG22	1:b1:254:VAL:HG21	1.95	0.49
1:b1:457:GLY:HA3	1:B2:459:LYS:NZ	2.27	0.49
1:B2:250:VAL:HG22	1:B2:254:VAL:HG21	1.95	0.49
1:b2:212:PRO:HD3	1:B3:190:ARG:CZ	2.42	0.49
1:b3:151:LEU:HD21	1:b3:407:GLN:HE21	1.74	0.49
1:B4:250:VAL:HG22	1:B4:254:VAL:HG21	1.95	0.49
1:b4:105:ARG:NH1	1:b4:109:ARG:HG3	2.27	0.49
1:b4:209:ASP:OD1	1:b4:210:GLY:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:113:ALA:O	1:B5:116:LYS:HG3	2.12	0.49
1:B5:370:TYR:HA	1:B5:373:LEU:HB2	1.95	0.49
2:A0:116:MET:O	2:A0:120:GLU:OE1	2.31	0.49
2:G0:122:ALA:O	2:G0:125:GLN:HG3	2.12	0.49
2:E0:116:MET:O	2:E0:120:GLU:OE1	2.31	0.49
2:F0:57:ILE:HG13	2:F0:58:VAL:N	2.26	0.49
2:A1:227:GLU:OE1	2:A1:227:GLU:N	2.44	0.49
2:A1:276:ASN:HD21	2:G1:256:GLN:CD	2.20	0.49
2:G1:28:PHE:HA	2:G1:281:GLY:HA3	1.95	0.49
2:E1:135:VAL:HG22	2:E1:329:LEU:HD22	1.95	0.49
2:F1:24:LEU:O	2:F1:283:ARG:NH1	2.45	0.49
2:F1:135:VAL:HG22	2:F1:329:LEU:HD22	1.95	0.49
2:A2:121:LEU:CD1	2:F2:50:MET:SD	3.00	0.49
2:C2:30:GLU:HB2	2:C2:280:ARG:CZ	2.42	0.49
2:D2:7:ALA:HB2	2:D2:309:VAL:HG23	1.94	0.49
2:D2:30:GLU:HB2	2:D2:280:ARG:CZ	2.42	0.49
2:F2:135:VAL:HG22	2:F2:329:LEU:HD22	1.95	0.49
2:C3:116:MET:O	2:C3:120:GLU:OE1	2.31	0.49
2:D3:14:GLU:HB2	2:D3:16:LYS:HZ3	1.77	0.49
2:D3:194:VAL:H	2:E3:263:LYS:NZ	2.11	0.49
2:A4:194:VAL:N	2:G4:263:LYS:HZ1	2.09	0.49
2:F4:122:ALA:O	2:F4:125:GLN:HG3	2.12	0.49
1:B:360:ARG:NH1	1:b5:376:ASN:OD1	2.46	0.49
1:B:370:TYR:HA	1:B:373:LEU:HB2	1.95	0.49
1:B:370:TYR:C	1:B:372:GLN:N	2.70	0.49
1:b:187:ARG:O	1:b:190:ARG:NE	2.45	0.49
1:b1:209:ASP:OD1	1:b1:210:GLY:N	2.46	0.49
1:b1:261:LEU:O	1:b1:265:GLN:HB2	2.12	0.49
1:B2:63:LEU:HD21	1:B2:251:PHE:HA	1.94	0.49
1:B2:88:LEU:HB2	1:B2:447:TRP:CH2	2.47	0.49
1:B4:299:ASN:HA	1:B4:303:GLN:C	2.37	0.49
1:b4:85:PHE:CE2	1:b4:87:ARG:HB2	2.48	0.49
1:b4:261:LEU:O	1:b4:265:GLN:HB2	2.12	0.49
1:b5:158:ASP:OD2	1:b5:163:ARG:NH1	2.45	0.49
2:G0:135:VAL:HG22	2:G0:329:LEU:HD22	1.95	0.49
2:C0:154:MET:SD	2:C0:328:LEU:HD22	2.53	0.49
2:C0:247:ASP:HA	2:D0:222:ARG:HH22	1.78	0.49
2:C0:258:VAL:HG12	2:C0:263:LYS:HB3	1.93	0.49
2:C0:306:LYS:HZ2	2:C0:308:TRP:CD1	2.31	0.49
2:E0:154:MET:SD	2:E0:328:LEU:HD22	2.53	0.49
2:F0:116:MET:O	2:F0:120:GLU:OE1	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F0:136:LEU:HD23	2:F0:273:VAL:HG13	1.95	0.49
2:A1:121:LEU:CD1	2:F1:50:MET:SD	3.00	0.49
2:A1:136:LEU:HD23	2:A1:273:VAL:HG13	1.95	0.49
2:G1:135:VAL:HG22	2:G1:329:LEU:HD22	1.95	0.49
2:C1:306:LYS:HG3	2:C1:308:TRP:HD1	1.74	0.49
2:D1:227:GLU:O	2:D1:230:THR:OG1	2.26	0.49
2:G2:116:MET:O	2:G2:120:GLU:OE1	2.31	0.49
2:C2:28:PHE:HA	2:C2:281:GLY:HA3	1.94	0.49
2:A3:30:GLU:HB2	2:A3:280:ARG:CZ	2.42	0.49
2:C3:247:ASP:HA	2:D3:222:ARG:HH22	1.78	0.49
2:E3:28:PHE:HA	2:E3:281:GLY:HA3	1.95	0.49
2:E3:135:VAL:HG22	2:E3:329:LEU:HD22	1.95	0.49
2:F3:7:ALA:HB2	2:F3:309:VAL:HG23	1.95	0.49
2:E4:116:MET:O	2:E4:120:GLU:OE1	2.31	0.49
1:b:370:TYR:C	1:b:372:GLN:N	2.71	0.49
1:b:380:MET:HG2	1:b:384:THR:HG21	1.95	0.49
1:B1:88:LEU:HB2	1:B1:447:TRP:CH2	2.47	0.49
1:B1:265:GLN:CG	1:b1:259:LYS:HZ1	2.26	0.49
1:b2:63:LEU:HD21	1:b2:251:PHE:HA	1.94	0.49
1:B3:63:LEU:HD21	1:B3:251:PHE:HA	1.94	0.49
1:B3:85:PHE:CE2	1:B3:87:ARG:HB2	2.48	0.49
1:B3:380:MET:HG2	1:B3:384:THR:HG21	1.95	0.49
1:b3:380:MET:HG2	1:b3:384:THR:HG21	1.95	0.49
1:B4:105:ARG:NH1	1:B4:109:ARG:HG3	2.27	0.49
1:B4:459:LYS:O	1:B4:463:GLU:HG2	2.12	0.49
1:b4:63:LEU:HD21	1:b4:251:PHE:HA	1.94	0.49
1:b4:370:TYR:HA	1:b4:373:LEU:HB2	1.95	0.49
1:b5:250:VAL:HG22	1:b5:254:VAL:HG21	1.95	0.49
2:A0:121:LEU:CD1	2:F0:50:MET:SD	3.00	0.49
2:A0:136:LEU:HD23	2:A0:273:VAL:HG13	1.95	0.49
2:G0:136:LEU:HD23	2:G0:273:VAL:HG13	1.95	0.49
2:C0:51:ALA:HB3	2:D0:259:GLU:HA	1.92	0.49
2:C0:227:GLU:OE1	2:C0:227:GLU:N	2.44	0.49
2:E0:28:PHE:HA	2:E0:281:GLY:HA3	1.94	0.49
2:F0:154:MET:SD	2:F0:328:LEU:HD22	2.53	0.49
2:A1:116:MET:O	2:A1:120:GLU:OE1	2.31	0.49
2:A2:30:GLU:HB2	2:A2:280:ARG:CZ	2.42	0.49
2:A2:194:VAL:N	2:G2:263:LYS:NZ	2.56	0.49
2:A2:276:ASN:HD21	2:G2:256:GLN:CD	2.20	0.49
2:C2:135:VAL:HG22	2:C2:329:LEU:HD22	1.95	0.49
2:D2:22:LEU:HD11	2:D2:231:ALA:HB1	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E2:258:VAL:HG12	2:E2:263:LYS:HB3	1.93	0.49
2:A3:258:VAL:HG12	2:A3:263:LYS:HB3	1.93	0.49
2:A3:276:ASN:HD21	2:G3:256:GLN:CD	2.20	0.49
2:F3:136:LEU:HD23	2:F3:273:VAL:HG13	1.95	0.49
2:F3:306:LYS:HZ2	2:F3:308:TRP:CD1	2.31	0.49
2:A4:154:MET:SD	2:A4:328:LEU:HD22	2.53	0.49
2:G4:192:SER:C	2:C4:256:GLN:HE22	2.21	0.49
2:C4:116:MET:O	2:C4:120:GLU:OE1	2.31	0.49
1:B1:380:MET:HG2	1:B1:384:THR:HG21	1.95	0.49
1:b1:113:ALA:O	1:b1:116:LYS:HG3	2.12	0.49
1:b1:380:MET:HG2	1:b1:384:THR:HG21	1.95	0.49
1:b2:85:PHE:CE2	1:b2:87:ARG:HB2	2.48	0.49
1:b2:209:ASP:OD1	1:b2:210:GLY:N	2.46	0.49
1:b3:63:LEU:HD21	1:b3:251:PHE:HA	1.94	0.49
1:B4:370:TYR:C	1:B4:372:GLN:N	2.71	0.49
1:B4:380:MET:HG2	1:B4:384:THR:HG21	1.95	0.49
1:B5:459:LYS:O	1:B5:463:GLU:HG2	2.12	0.49
2:C0:116:MET:O	2:C0:120:GLU:OE1	2.31	0.49
2:C0:294:GLN:HG3	2:C0:299:ASN:HD22	1.76	0.49
2:E0:7:ALA:HB2	2:E0:309:VAL:HG23	1.95	0.49
2:E0:56:PRO:HA	2:F0:79:LYS:HZ2	1.78	0.49
2:E0:227:GLU:OE1	2:E0:227:GLU:N	2.44	0.49
2:D1:122:ALA:O	2:D1:125:GLN:HG3	2.12	0.49
2:D1:276:ASN:ND2	2:E1:263:LYS:HZ3	2.10	0.49
2:A2:192:SER:HB2	2:G2:262:VAL:HG23	1.95	0.49
2:E2:24:LEU:O	2:E2:283:ARG:NH1	2.45	0.49
2:E2:136:LEU:HD23	2:E2:273:VAL:HG13	1.95	0.49
2:D3:7:ALA:HB2	2:D3:309:VAL:HG23	1.95	0.49
2:F3:116:MET:O	2:F3:120:GLU:OE1	2.31	0.49
2:F3:135:VAL:HG22	2:F3:329:LEU:HD22	1.95	0.49
2:F3:163:THR:HB	2:F3:339:GLN:NE2	2.25	0.49
2:C4:154:MET:SD	2:C4:328:LEU:HD22	2.53	0.49
2:F4:116:MET:O	2:F4:120:GLU:OE1	2.31	0.49
2:F4:154:MET:SD	2:F4:328:LEU:HD22	2.53	0.49
2:F4:306:LYS:HZ2	2:F4:308:TRP:CD1	2.31	0.49
1:B:380:MET:HG2	1:B:384:THR:HG21	1.95	0.49
1:b:370:TYR:HA	1:b:373:LEU:HB2	1.95	0.49
1:B2:380:MET:HG2	1:B2:384:THR:HG21	1.95	0.49
1:b2:459:LYS:O	1:b2:463:GLU:HG2	2.12	0.49
1:B3:261:LEU:O	1:B3:265:GLN:HB2	2.12	0.49
1:B4:88:LEU:HB2	1:B4:447:TRP:CH2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B4:212:PRO:HD3	1:b4:190:ARG:CZ	2.43	0.49
1:B5:105:ARG:NH1	1:B5:109:ARG:HG3	2.27	0.49
1:B5:370:TYR:C	1:B5:372:GLN:N	2.71	0.49
1:B5:374:SER:OG	1:b5:360:ARG:CZ	2.61	0.49
1:b5:187:ARG:O	1:b5:190:ARG:NE	2.45	0.49
2:G0:7:ALA:HB2	2:G0:309:VAL:HG23	1.94	0.49
2:G0:50:MET:SD	2:C0:122:ALA:CA	2.95	0.49
2:D0:28:PHE:HA	2:D0:281:GLY:HA3	1.95	0.49
2:D0:117:ARG:HA	2:D0:120:GLU:OE1	2.13	0.49
2:D0:122:ALA:O	2:D0:125:GLN:HG3	2.12	0.49
2:D0:154:MET:SD	2:D0:328:LEU:HD22	2.53	0.49
2:A1:7:ALA:HB2	2:A1:309:VAL:HG23	1.94	0.49
2:C1:154:MET:SD	2:C1:328:LEU:HD22	2.53	0.49
2:D1:7:ALA:HB2	2:D1:309:VAL:HG23	1.94	0.49
2:F1:116:MET:O	2:F1:120:GLU:OE1	2.31	0.49
2:C2:247:ASP:HA	2:D2:222:ARG:HH22	1.78	0.49
2:D2:24:LEU:O	2:D2:283:ARG:NH1	2.45	0.49
2:D2:116:MET:O	2:D2:120:GLU:OE1	2.31	0.49
2:F2:116:MET:O	2:F2:120:GLU:OE1	2.31	0.49
2:G3:7:ALA:HB2	2:G3:309:VAL:HG23	1.95	0.49
2:G3:116:MET:O	2:G3:120:GLU:OE1	2.31	0.49
2:C3:154:MET:SD	2:C3:328:LEU:HD22	2.53	0.49
2:E3:235:LEU:HD23	2:E3:237:LYS:HZ1	1.78	0.49
2:F3:117:ARG:HA	2:F3:120:GLU:OE1	2.13	0.49
2:G4:28:PHE:HA	2:G4:281:GLY:HA3	1.95	0.49
2:D4:117:ARG:HA	2:D4:120:GLU:OE1	2.13	0.49
2:E4:306:LYS:HZ2	2:E4:308:TRP:CD1	2.31	0.49
2:F4:7:ALA:HB2	2:F4:309:VAL:HG23	1.95	0.49
1:B1:105:ARG:NH1	1:B1:109:ARG:HG3	2.27	0.48
1:B1:212:PRO:HD3	1:b1:190:ARG:CZ	2.42	0.48
1:B1:250:VAL:HG22	1:B1:254:VAL:HG21	1.95	0.48
1:B1:459:LYS:O	1:B1:463:GLU:HG2	2.12	0.48
1:b1:212:PRO:HD3	1:B2:190:ARG:CZ	2.42	0.48
1:B2:370:TYR:C	1:B2:372:GLN:N	2.70	0.48
1:b2:380:MET:HG2	1:b2:384:THR:HG21	1.95	0.48
1:b3:370:TYR:HA	1:b3:373:LEU:HB2	1.95	0.48
1:b3:395:TYR:HB3	1:b3:399:ARG:NH1	2.27	0.48
1:B4:261:LEU:O	1:B4:265:GLN:HB2	2.12	0.48
1:B4:370:TYR:HA	1:B4:373:LEU:HB2	1.95	0.48
1:b4:380:MET:HG2	1:b4:384:THR:HG21	1.95	0.48
1:B5:85:PHE:CE2	1:B5:87:ARG:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:7:ALA:HB2	2:A0:309:VAL:HG23	1.95	0.48
2:A0:117:ARG:HA	2:A0:120:GLU:OE1	2.13	0.48
2:G0:30:GLU:HB2	2:G0:280:ARG:CZ	2.42	0.48
2:F0:135:VAL:HG22	2:F0:329:LEU:HD22	1.95	0.48
2:A1:33:PRO:CG	2:G1:92:ARG:HH21	1.99	0.48
2:A1:135:VAL:HG22	2:A1:329:LEU:HD22	1.95	0.48
2:C1:51:ALA:HB3	2:D1:259:GLU:HA	1.92	0.48
2:C1:116:MET:O	2:C1:120:GLU:OE1	2.31	0.48
2:D1:14:GLU:HB2	2:D1:16:LYS:HZ3	1.78	0.48
2:D1:135:VAL:HG22	2:D1:329:LEU:HD22	1.95	0.48
2:D1:154:MET:SD	2:D1:328:LEU:HD22	2.53	0.48
2:D1:276:ASN:HD22	2:E1:263:LYS:HZ3	1.61	0.48
2:F1:154:MET:SD	2:F1:328:LEU:HD22	2.53	0.48
2:G2:14:GLU:HB2	2:G2:16:LYS:HZ1	1.77	0.48
2:G2:306:LYS:HZ2	2:G2:308:TRP:CD1	2.31	0.48
2:C2:154:MET:SD	2:C2:328:LEU:HD22	2.53	0.48
2:E2:117:ARG:HA	2:E2:120:GLU:OE1	2.13	0.48
2:F2:117:ARG:HA	2:F2:120:GLU:OE1	2.13	0.48
2:D3:154:MET:SD	2:D3:328:LEU:HD22	2.53	0.48
2:E3:198:ILE:HB	2:E3:250:ILE:HD13	1.93	0.48
2:F3:154:MET:SD	2:F3:328:LEU:HD22	2.53	0.48
2:A4:28:PHE:HA	2:A4:281:GLY:HA3	1.95	0.48
2:C4:136:LEU:HD23	2:C4:273:VAL:HG13	1.95	0.48
2:D4:116:MET:O	2:D4:120:GLU:OE1	2.31	0.48
2:D4:154:MET:SD	2:D4:328:LEU:HD22	2.53	0.48
2:F4:135:VAL:HG22	2:F4:329:LEU:HD22	1.95	0.48
1:B1:370:TYR:HA	1:B1:373:LEU:HB2	1.95	0.48
1:B2:178:SER:OG	1:B2:219:TRP:NE1	2.39	0.48
1:b2:113:ALA:O	1:b2:116:LYS:HG3	2.12	0.48
1:b2:181:ASN:ND2	2:G4:100:ASN:ND2	2.61	0.48
1:b2:250:VAL:HG22	1:b2:254:VAL:HG21	1.95	0.48
1:B3:187:ARG:O	1:B3:190:ARG:NE	2.45	0.48
1:B3:209:ASP:OD1	1:B3:210:GLY:N	2.46	0.48
1:b3:212:PRO:HD3	1:B4:190:ARG:CZ	2.42	0.48
1:B4:457:GLY:HA3	1:b4:459:LYS:NZ	2.28	0.48
1:b4:170:ARG:NH2	1:B5:198:SER:O	2.38	0.48
1:B5:380:MET:HG2	1:B5:384:THR:HG21	1.95	0.48
1:b5:63:LEU:HD21	1:b5:251:PHE:HA	1.94	0.48
2:C0:308:TRP:NE1	2:C0:320:MET:HB2	2.20	0.48
2:D0:24:LEU:O	2:D0:283:ARG:NH1	2.45	0.48
2:D0:116:MET:O	2:D0:120:GLU:OE1	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E0:117:ARG:HA	2:E0:120:GLU:OE1	2.13	0.48
2:A2:116:MET:O	2:A2:120:GLU:OE1	2.31	0.48
2:G2:154:MET:SD	2:G2:328:LEU:HD22	2.53	0.48
2:C2:51:ALA:HB3	2:D2:259:GLU:HA	1.92	0.48
2:E2:7:ALA:HB2	2:E2:309:VAL:HG23	1.95	0.48
2:A3:24:LEU:O	2:A3:283:ARG:NH1	2.45	0.48
2:C3:28:PHE:HA	2:C3:281:GLY:HA3	1.94	0.48
2:D3:30:GLU:HB2	2:D3:280:ARG:CZ	2.42	0.48
2:A4:121:LEU:CD1	2:F4:50:MET:SD	3.00	0.48
2:A4:135:VAL:HG22	2:A4:329:LEU:HD22	1.95	0.48
2:G4:135:VAL:HG22	2:G4:329:LEU:HD22	1.95	0.48
2:E4:7:ALA:HB2	2:E4:309:VAL:HG23	1.95	0.48
1:B:105:ARG:NH1	1:B:109:ARG:HG3	2.27	0.48
1:B:250:VAL:HG22	1:B:254:VAL:HG21	1.95	0.48
1:B:364:ALA:HB2	1:b5:375:ARG:HB3	1.94	0.48
1:B:459:LYS:O	1:B:463:GLU:HG2	2.12	0.48
1:b:85:PHE:CE2	1:b:87:ARG:HB2	2.48	0.48
1:B2:209:ASP:OD1	1:B2:210:GLY:N	2.46	0.48
1:B3:88:LEU:HB2	1:B3:447:TRP:CH2	2.47	0.48
1:B3:376:ASN:OD1	1:b3:360:ARG:NH1	2.45	0.48
1:B4:462:GLN:HA	1:B4:465:VAL:HG22	1.96	0.48
1:b5:209:ASP:OD1	1:b5:210:GLY:N	2.46	0.48
1:b5:380:MET:HG2	1:b5:384:THR:HG21	1.95	0.48
2:A0:192:SER:HB2	2:G0:262:VAL:HG23	1.95	0.48
2:E0:135:VAL:HG22	2:E0:329:LEU:HD22	1.95	0.48
2:A1:154:MET:SD	2:A1:328:LEU:HD22	2.53	0.48
2:D1:194:VAL:H	2:E1:263:LYS:NZ	2.11	0.48
2:C2:116:MET:O	2:C2:120:GLU:OE1	2.31	0.48
2:F2:7:ALA:HB2	2:F2:309:VAL:HG23	1.94	0.48
2:A3:117:ARG:HA	2:A3:120:GLU:OE1	2.13	0.48
2:G3:154:MET:SD	2:G3:328:LEU:HD22	2.53	0.48
2:D3:117:ARG:HA	2:D3:120:GLU:OE1	2.13	0.48
2:D3:136:LEU:HD23	2:D3:273:VAL:HG13	1.95	0.48
2:A4:7:ALA:HB2	2:A4:309:VAL:HG23	1.95	0.48
2:A4:192:SER:HB2	2:G4:262:VAL:HG23	1.95	0.48
2:C4:117:ARG:HA	2:C4:120:GLU:OE1	2.13	0.48
1:b1:265:GLN:HG3	1:B2:259:LYS:HZ1	1.79	0.48
1:b1:370:TYR:HA	1:b1:373:LEU:HB2	1.95	0.48
1:b1:459:LYS:O	1:b1:463:GLU:HG2	2.12	0.48
1:B3:370:TYR:HA	1:B3:373:LEU:HB2	1.95	0.48
1:B3:375:ARG:HB3	1:b3:364:ALA:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b3:462:GLN:HA	1:b3:465:VAL:HG22	1.96	0.48
1:B4:85:PHE:CE2	1:B4:87:ARG:HB2	2.48	0.48
1:b4:376:ASN:OD1	1:B5:360:ARG:NH1	2.46	0.48
1:b4:462:GLN:HA	1:b4:465:VAL:HG22	1.96	0.48
2:A0:154:MET:SD	2:A0:328:LEU:HD22	2.53	0.48
2:A0:276:ASN:HD21	2:G0:256:GLN:CD	2.20	0.48
2:D0:197:ILE:HG22	2:D0:199:VAL:H	1.79	0.48
2:G1:154:MET:SD	2:G1:328:LEU:HD22	2.53	0.48
2:C1:7:ALA:HB2	2:C1:309:VAL:HG23	1.95	0.48
2:C1:117:ARG:HA	2:C1:120:GLU:OE1	2.13	0.48
2:G2:7:ALA:HB2	2:G2:309:VAL:HG23	1.95	0.48
2:G2:135:VAL:HG22	2:G2:329:LEU:HD22	1.95	0.48
2:C2:14:GLU:HB2	2:C2:16:LYS:HZ1	1.76	0.48
2:F2:28:PHE:HA	2:F2:281:GLY:HA3	1.95	0.48
2:A3:135:VAL:HG22	2:A3:329:LEU:HD22	1.95	0.48
2:G3:117:ARG:HA	2:G3:120:GLU:OE1	2.13	0.48
2:G3:306:LYS:HZ2	2:G3:308:TRP:CD1	2.32	0.48
2:D3:28:PHE:HA	2:D3:281:GLY:HA3	1.95	0.48
2:A4:276:ASN:HD21	2:G4:256:GLN:CD	2.20	0.48
2:D4:7:ALA:HB2	2:D4:309:VAL:HG23	1.95	0.48
1:B:185:ASP:OD1	1:B:185:ASP:N	2.47	0.48
1:B:395:TYR:OH	1:b5:80:HIS:CE1	2.66	0.48
1:B2:85:PHE:CE2	1:B2:87:ARG:HB2	2.48	0.48
1:B2:459:LYS:O	1:B2:463:GLU:HG2	2.12	0.48
1:B4:209:ASP:OD1	1:B4:210:GLY:N	2.46	0.48
1:B4:376:ASN:OD1	1:b4:360:ARG:NH1	2.47	0.48
1:b4:179:ASN:HD21	1:b4:185:ASP:HA	1.78	0.48
2:D0:194:VAL:H	2:E0:263:LYS:NZ	2.11	0.48
2:A1:306:LYS:HZ2	2:A1:308:TRP:CD1	2.32	0.48
2:G1:116:MET:O	2:G1:120:GLU:OE1	2.31	0.48
2:F1:28:PHE:HA	2:F1:281:GLY:HA3	1.95	0.48
2:C2:7:ALA:HB2	2:C2:309:VAL:HG23	1.95	0.48
2:D2:28:PHE:HA	2:D2:281:GLY:HA3	1.94	0.48
2:D2:154:MET:SD	2:D2:328:LEU:HD22	2.53	0.48
2:E2:28:PHE:HA	2:E2:281:GLY:HA3	1.95	0.48
2:E2:306:LYS:HZ2	2:E2:308:TRP:CD1	2.32	0.48
2:F2:154:MET:SD	2:F2:328:LEU:HD22	2.53	0.48
2:A3:14:GLU:HB2	2:A3:16:LYS:HZ3	1.78	0.48
2:E3:136:LEU:HD23	2:E3:273:VAL:HG13	1.95	0.48
2:A4:197:ILE:HG22	2:A4:199:VAL:H	1.79	0.48
2:G4:136:LEU:HD23	2:G4:273:VAL:HG13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E4:135:VAL:HG22	2:E4:329:LEU:HD22	1.95	0.48
2:F4:117:ARG:HA	2:F4:120:GLU:OE1	2.13	0.48
1:b1:176:ARG:NE	1:b1:207:SER:O	2.39	0.48
1:b1:179:ASN:HD21	1:b1:185:ASP:HA	1.78	0.48
1:b2:370:TYR:HA	1:b2:373:LEU:HB2	1.95	0.48
1:B3:240:VAL:N	1:B3:244:GLN:OE1	2.47	0.48
1:B3:459:LYS:O	1:B3:463:GLU:HG2	2.12	0.48
1:b3:85:PHE:CE2	1:b3:87:ARG:HB2	2.48	0.48
1:b3:250:VAL:HG22	1:b3:254:VAL:HG21	1.95	0.48
1:b4:457:GLY:HA3	1:B5:459:LYS:NZ	2.29	0.48
1:B5:376:ASN:OD1	1:b5:360:ARG:NH1	2.47	0.48
1:b5:105:ARG:NH1	1:b5:109:ARG:HG3	2.27	0.48
2:D0:136:LEU:HD23	2:D0:273:VAL:HG13	1.95	0.48
2:C1:28:PHE:HA	2:C1:281:GLY:HA3	1.94	0.48
2:D1:116:MET:O	2:D1:120:GLU:OE1	2.31	0.48
2:D1:163:THR:HB	2:D1:339:GLN:NE2	2.26	0.48
2:E1:7:ALA:HB2	2:E1:309:VAL:HG23	1.95	0.48
2:E1:116:MET:O	2:E1:120:GLU:OE1	2.31	0.48
2:E1:136:LEU:HD23	2:E1:273:VAL:HG13	1.95	0.48
2:G2:31:SER:N	2:C2:91:ARG:HH12	2.12	0.48
2:G2:136:LEU:HD23	2:G2:273:VAL:HG13	1.95	0.48
2:F2:84:VAL:HG21	2:F2:112:ILE:HG22	1.96	0.48
2:F2:227:GLU:O	2:F2:230:THR:OG1	2.26	0.48
2:C3:135:VAL:HG22	2:C3:329:LEU:HD22	1.95	0.48
2:A4:117:ARG:HA	2:A4:120:GLU:OE1	2.13	0.48
2:C4:28:PHE:HA	2:C4:281:GLY:HA3	1.95	0.48
2:E4:117:ARG:HA	2:E4:120:GLU:OE1	2.13	0.48
2:F4:28:PHE:HA	2:F4:281:GLY:HA3	1.94	0.48
1:B:80:HIS:CE1	1:b:395:TYR:OH	2.67	0.48
1:B:368:VAL:HG12	1:B:396:PHE:CZ	2.46	0.48
1:B1:80:HIS:CE1	1:b1:395:TYR:OH	2.67	0.48
1:B1:370:TYR:C	1:B1:372:GLN:N	2.70	0.48
1:b1:36:ARG:HD3	2:G0:295:ARG:HG3	1.94	0.48
1:b1:65:ARG:NH2	1:B2:41:PRO:HD2	2.23	0.48
1:B2:370:TYR:HA	1:B2:373:LEU:HB2	1.95	0.48
1:B2:376:ASN:OD1	1:b2:360:ARG:NH1	2.47	0.48
1:B3:110:GLU:HG2	1:B3:425:VAL:HG12	1.96	0.48
1:b3:110:GLU:HG2	1:b3:425:VAL:HG12	1.96	0.48
1:b4:185:ASP:OD1	1:b4:185:ASP:N	2.47	0.48
1:B5:457:GLY:HA3	1:b5:459:LYS:NZ	2.29	0.48
1:B5:462:GLN:HA	1:B5:465:VAL:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D0:84:VAL:HG21	2:D0:112:ILE:HG22	1.96	0.48
2:G1:7:ALA:HB2	2:G1:309:VAL:HG23	1.95	0.48
2:G1:31:SER:N	2:C1:91:ARG:HH12	2.12	0.48
2:C1:227:GLU:OE1	2:C1:227:GLU:N	2.44	0.48
2:D1:117:ARG:HA	2:D1:120:GLU:OE1	2.13	0.48
2:A2:77:TYR:CE2	2:A2:288:ILE:HA	2.48	0.48
2:C2:136:LEU:HD23	2:C2:273:VAL:HG13	1.95	0.48
2:D2:227:GLU:OE1	2:D2:227:GLU:N	2.44	0.48
2:E2:154:MET:SD	2:E2:328:LEU:HD22	2.53	0.48
2:A3:136:LEU:HD23	2:A3:273:VAL:HG13	1.95	0.48
2:G3:197:ILE:HG22	2:G3:199:VAL:H	1.79	0.48
2:C3:117:ARG:HA	2:C3:120:GLU:OE1	2.13	0.48
2:C3:136:LEU:HD23	2:C3:273:VAL:HG13	1.95	0.48
2:D3:116:MET:O	2:D3:120:GLU:OE1	2.31	0.48
2:E3:117:ARG:HA	2:E3:120:GLU:OE1	2.13	0.48
2:A4:116:MET:O	2:A4:120:GLU:OE1	2.31	0.48
2:G4:7:ALA:HB2	2:G4:309:VAL:HG23	1.95	0.48
2:G4:154:MET:SD	2:G4:328:LEU:HD22	2.53	0.48
2:F4:136:LEU:HD23	2:F4:273:VAL:HG13	1.95	0.48
1:b:250:VAL:HG22	1:b:254:VAL:HG21	1.95	0.48
1:b1:240:VAL:N	1:b1:244:GLN:OE1	2.47	0.48
1:B2:212:PRO:HD3	1:b2:190:ARG:CZ	2.43	0.48
1:b2:240:VAL:N	1:b2:244:GLN:OE1	2.47	0.48
1:B3:117:GLU:HG2	1:b3:96:TYR:CD2	2.49	0.48
1:B3:462:GLN:HA	1:B3:465:VAL:HG22	1.96	0.48
1:B4:80:HIS:CE1	1:b4:395:TYR:OH	2.67	0.48
1:B4:110:GLU:HG2	1:B4:425:VAL:HG12	1.96	0.48
1:B4:179:ASN:HD21	1:B4:185:ASP:HA	1.78	0.48
1:B4:240:VAL:N	1:B4:244:GLN:OE1	2.47	0.48
1:B4:317:TYR:CE2	1:b4:334:MET:SD	3.06	0.48
1:b4:80:HIS:CE1	1:B5:395:TYR:OH	2.66	0.48
1:b4:187:ARG:O	1:b4:190:ARG:NE	2.45	0.48
1:B5:185:ASP:N	1:B5:185:ASP:OD1	2.47	0.48
1:B5:209:ASP:OD1	1:B5:210:GLY:N	2.46	0.48
2:G0:284:THR:O	2:G0:285:TYR:HD1	1.97	0.48
2:C0:117:ARG:HA	2:C0:120:GLU:OE1	2.13	0.48
2:D0:212:LYS:O	2:D0:215:LYS:HG2	2.14	0.48
2:A1:28:PHE:HA	2:A1:281:GLY:HA3	1.95	0.48
2:A1:75:PRO:HA	2:A1:326:LEU:HB2	1.96	0.48
2:A1:117:ARG:HA	2:A1:120:GLU:OE1	2.13	0.48
2:A1:197:ILE:HG22	2:A1:199:VAL:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G1:117:ARG:HA	2:G1:120:GLU:OE1	2.13	0.48
2:G1:197:ILE:HG22	2:G1:199:VAL:H	1.79	0.48
2:C1:135:VAL:HG22	2:C1:329:LEU:HD22	1.95	0.48
2:E1:28:PHE:HA	2:E1:281:GLY:HA3	1.94	0.48
2:F1:84:VAL:HG21	2:F1:112:ILE:HG22	1.96	0.48
2:G2:117:ARG:HA	2:G2:120:GLU:OE1	2.13	0.48
2:G2:197:ILE:HG22	2:G2:199:VAL:H	1.79	0.48
2:C2:117:ARG:HA	2:C2:120:GLU:OE1	2.13	0.48
2:G3:28:PHE:HA	2:G3:281:GLY:HA3	1.95	0.48
2:G3:31:SER:N	2:C3:91:ARG:HH12	2.12	0.48
2:D3:212:LYS:O	2:D3:215:LYS:HG2	2.14	0.48
2:E3:116:MET:O	2:E3:120:GLU:OE1	2.31	0.48
2:F3:197:ILE:HG22	2:F3:199:VAL:H	1.79	0.48
2:D4:28:PHE:HA	2:D4:281:GLY:HA3	1.95	0.48
2:F4:109:ARG:O	2:F4:113:MET:HG2	2.14	0.48
1:B1:179:ASN:HD21	1:B1:185:ASP:HA	1.78	0.48
1:b2:462:GLN:HA	1:b2:465:VAL:HG22	1.96	0.48
1:B5:179:ASN:HD21	1:B5:185:ASP:HA	1.78	0.48
1:B5:212:PRO:HD3	1:b5:190:ARG:CZ	2.44	0.48
1:b5:459:LYS:O	1:b5:463:GLU:HG2	2.12	0.48
1:b5:462:GLN:HA	1:b5:465:VAL:HG22	1.96	0.48
2:C0:75:PRO:HA	2:C0:326:LEU:HB2	1.96	0.48
2:C0:136:LEU:HD23	2:C0:273:VAL:HG13	1.95	0.48
2:D0:135:VAL:HG22	2:D0:329:LEU:HD22	1.95	0.48
2:G1:84:VAL:HG21	2:G1:112:ILE:HG22	1.96	0.48
2:G1:136:LEU:HD23	2:G1:273:VAL:HG13	1.95	0.48
2:D1:28:PHE:HA	2:D1:281:GLY:HA3	1.95	0.48
2:E1:154:MET:SD	2:E1:328:LEU:HD22	2.53	0.48
2:A2:163:THR:HB	2:A2:339:GLN:NE2	2.26	0.48
2:A2:212:LYS:O	2:A2:215:LYS:HG2	2.14	0.48
2:C2:75:PRO:HA	2:C2:326:LEU:HB2	1.96	0.48
2:C2:84:VAL:HG21	2:C2:112:ILE:HG22	1.96	0.48
2:D2:117:ARG:HA	2:D2:120:GLU:OE1	2.13	0.48
2:D2:212:LYS:O	2:D2:215:LYS:HG2	2.14	0.48
2:F2:136:LEU:HD23	2:F2:273:VAL:HG13	1.95	0.48
2:A3:28:PHE:HA	2:A3:281:GLY:HA3	1.95	0.48
2:A3:192:SER:HB2	2:G3:262:VAL:HG23	1.95	0.48
2:G3:136:LEU:HD23	2:G3:273:VAL:HG13	1.95	0.48
2:G3:284:THR:O	2:G3:285:TYR:HD1	1.97	0.48
2:E3:7:ALA:HB2	2:E3:309:VAL:HG23	1.95	0.48
2:A4:109:ARG:O	2:A4:113:MET:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C4:135:VAL:HG22	2:C4:329:LEU:HD22	1.95	0.48
2:D4:135:VAL:HG22	2:D4:329:LEU:HD22	1.95	0.48
1:B:150:GLU:OE2	1:B:246:ARG:NE	2.47	0.48
1:B:349:ASN:HB3	1:B:351:TYR:CD1	2.49	0.48
1:B:360:ARG:HD3	1:b5:376:ASN:CG	2.39	0.48
1:b:179:ASN:HD21	1:b:185:ASP:HA	1.78	0.48
1:b:349:ASN:HB3	1:b:351:TYR:CD1	2.49	0.48
1:B1:349:ASN:HB3	1:B1:351:TYR:CD1	2.49	0.48
1:B2:179:ASN:HD21	1:B2:185:ASP:HA	1.78	0.48
1:B2:190:ARG:CZ	1:B2:195:ILE:HD11	2.44	0.48
1:B2:457:GLY:HA3	1:b2:459:LYS:NZ	2.29	0.48
1:b2:179:ASN:HD21	1:b2:185:ASP:HA	1.78	0.48
1:B3:179:ASN:HD21	1:B3:185:ASP:HA	1.78	0.48
1:B5:362:ILE:O	1:B5:366:LEU:HG	2.14	0.48
2:A0:77:TYR:CE2	2:A0:288:ILE:HA	2.49	0.48
2:A0:197:ILE:HG22	2:A0:199:VAL:H	1.79	0.48
2:A0:220:THR:HG21	2:F0:217:LYS:CE	2.37	0.48
2:G0:75:PRO:HA	2:G0:326:LEU:HB2	1.96	0.48
2:E0:84:VAL:HG21	2:E0:112:ILE:HG22	1.96	0.48
2:G1:227:GLU:OE1	2:G1:227:GLU:N	2.44	0.48
2:C1:75:PRO:HA	2:C1:326:LEU:HB2	1.96	0.48
2:C1:84:VAL:HG21	2:C1:112:ILE:HG22	1.96	0.48
2:D1:84:VAL:HG21	2:D1:112:ILE:HG22	1.96	0.48
2:E1:109:ARG:O	2:E1:113:MET:HG2	2.14	0.48
2:F1:284:THR:O	2:F1:285:TYR:HD1	1.97	0.48
2:A2:7:ALA:HB2	2:A2:309:VAL:HG23	1.95	0.48
2:C2:306:LYS:HZ2	2:C2:308:TRP:CD1	2.32	0.48
2:D2:135:VAL:HG22	2:D2:329:LEU:HD22	1.95	0.48
2:E2:284:THR:O	2:E2:285:TYR:HD1	1.97	0.48
2:F2:284:THR:O	2:F2:285:TYR:HD1	1.97	0.48
2:C3:75:PRO:HA	2:C3:326:LEU:HB2	1.96	0.48
2:D3:135:VAL:HG22	2:D3:329:LEU:HD22	1.95	0.48
2:E3:154:MET:SD	2:E3:328:LEU:HD22	2.53	0.48
2:F3:84:VAL:HG21	2:F3:112:ILE:HG22	1.96	0.48
2:G4:116:MET:O	2:G4:120:GLU:OE1	2.31	0.48
2:E4:109:ARG:O	2:E4:113:MET:HG2	2.14	0.48
1:b:362:ILE:O	1:b:366:LEU:HG	2.14	0.47
1:b:376:ASN:OD1	1:B1:360:ARG:NH1	2.48	0.47
1:b:459:LYS:O	1:b:463:GLU:HG2	2.12	0.47
1:B2:240:VAL:N	1:B2:244:GLN:OE1	2.47	0.47
1:b2:150:GLU:OE2	1:b2:246:ARG:NE	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b5:190:ARG:CZ	1:b5:195:ILE:HD11	2.44	0.47
2:G0:117:ARG:HA	2:G0:120:GLU:OE1	2.13	0.47
2:E0:75:PRO:HA	2:E0:326:LEU:HB2	1.96	0.47
2:F0:28:PHE:HA	2:F0:281:GLY:HA3	1.95	0.47
2:F0:284:THR:O	2:F0:285:TYR:HD1	1.97	0.47
2:C1:227:GLU:O	2:C1:230:THR:OG1	2.26	0.47
2:F1:75:PRO:HA	2:F1:326:LEU:HB2	1.96	0.47
2:F1:117:ARG:HA	2:F1:120:GLU:OE1	2.13	0.47
2:A2:28:PHE:HA	2:A2:281:GLY:HA3	1.95	0.47
2:A2:84:VAL:HG21	2:A2:112:ILE:HG22	1.96	0.47
2:A2:154:MET:SD	2:A2:328:LEU:HD22	2.53	0.47
2:G2:284:THR:O	2:G2:285:TYR:HD1	1.97	0.47
2:D2:194:VAL:H	2:E2:263:LYS:NZ	2.11	0.47
2:D2:306:LYS:HZ2	2:D2:308:TRP:CD1	2.32	0.47
2:E2:135:VAL:HG22	2:E2:329:LEU:HD22	1.95	0.47
2:F2:109:ARG:O	2:F2:113:MET:HG2	2.14	0.47
2:F2:139:LYS:HG3	2:F2:151:GLU:OE2	2.14	0.47
2:F2:292:ASP:HA	2:F2:295:ARG:CD	2.44	0.47
2:A3:154:MET:SD	2:A3:328:LEU:HD22	2.53	0.47
2:A3:292:ASP:HA	2:A3:295:ARG:CD	2.44	0.47
2:C3:292:ASP:HA	2:C3:295:ARG:CD	2.44	0.47
2:E3:109:ARG:O	2:E3:113:MET:HG2	2.14	0.47
2:E3:227:GLU:OE1	2:E3:227:GLU:N	2.44	0.47
2:G4:197:ILE:HG22	2:G4:199:VAL:H	1.79	0.47
2:D4:139:LYS:HG3	2:D4:151:GLU:OE2	2.14	0.47
2:E4:136:LEU:HD23	2:E4:273:VAL:HG13	1.95	0.47
2:E4:154:MET:SD	2:E4:328:LEU:HD22	2.53	0.47
2:F4:197:ILE:HG22	2:F4:199:VAL:H	1.79	0.47
2:F4:212:LYS:O	2:F4:215:LYS:HG2	2.14	0.47
1:B:462:GLN:HA	1:B:465:VAL:HG22	1.96	0.47
1:b:185:ASP:OD1	1:b:185:ASP:N	2.47	0.47
1:b:190:ARG:CZ	1:b:195:ILE:HD11	2.44	0.47
1:b:258:MET:O	1:b:261:LEU:HG	2.14	0.47
1:B1:258:MET:O	1:B1:261:LEU:HG	2.14	0.47
1:b1:258:MET:O	1:b1:261:LEU:HG	2.14	0.47
1:B2:374:SER:OG	1:b2:360:ARG:CZ	2.62	0.47
1:B2:462:GLN:HA	1:B2:465:VAL:HG22	1.96	0.47
1:b3:362:ILE:O	1:b3:366:LEU:HG	2.14	0.47
1:B4:436:GLN:OE1	1:B4:439:ARG:NH2	2.25	0.47
2:A0:109:ARG:O	2:A0:113:MET:HG2	2.14	0.47
2:A0:212:LYS:O	2:A0:215:LYS:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G0:154:MET:SD	2:G0:328:LEU:HD22	2.53	0.47
2:C0:84:VAL:HG21	2:C0:112:ILE:HG22	1.96	0.47
2:C0:292:ASP:HA	2:C0:295:ARG:CD	2.45	0.47
2:E0:109:ARG:O	2:E0:113:MET:HG2	2.14	0.47
2:E0:292:ASP:HA	2:E0:295:ARG:CD	2.44	0.47
2:F0:84:VAL:HG21	2:F0:112:ILE:HG22	1.96	0.47
2:A1:109:ARG:O	2:A1:113:MET:HG2	2.14	0.47
2:C1:197:ILE:HG22	2:C1:199:VAL:H	1.79	0.47
2:D1:75:PRO:HA	2:D1:326:LEU:HB2	1.96	0.47
2:G2:163:THR:HB	2:G2:339:GLN:NE2	2.25	0.47
2:D2:84:VAL:HG21	2:D2:112:ILE:HG22	1.96	0.47
2:E2:109:ARG:O	2:E2:113:MET:HG2	2.14	0.47
2:E2:197:ILE:HG22	2:E2:199:VAL:H	1.79	0.47
2:F2:75:PRO:HA	2:F2:326:LEU:HB2	1.96	0.47
2:F2:197:ILE:HG22	2:F2:199:VAL:H	1.79	0.47
2:A3:116:MET:O	2:A3:120:GLU:OE1	2.31	0.47
2:A3:212:LYS:O	2:A3:215:LYS:HG2	2.14	0.47
2:G3:212:LYS:O	2:G3:215:LYS:HG2	2.14	0.47
2:D3:292:ASP:HA	2:D3:295:ARG:CD	2.45	0.47
2:E3:139:LYS:HG3	2:E3:151:GLU:OE2	2.14	0.47
2:E3:284:THR:O	2:E3:285:TYR:HD1	1.97	0.47
2:F3:292:ASP:HA	2:F3:295:ARG:CD	2.45	0.47
2:A4:84:VAL:HG21	2:A4:112:ILE:HG22	1.96	0.47
2:A4:292:ASP:HA	2:A4:295:ARG:CD	2.45	0.47
2:G4:212:LYS:O	2:G4:215:LYS:HG2	2.14	0.47
2:C4:75:PRO:HA	2:C4:326:LEU:HB2	1.96	0.47
2:C4:109:ARG:O	2:C4:113:MET:HG2	2.14	0.47
2:C4:139:LYS:HG3	2:C4:151:GLU:OE2	2.14	0.47
2:D4:136:LEU:HD23	2:D4:273:VAL:HG13	1.95	0.47
2:D4:227:GLU:OE1	2:D4:227:GLU:N	2.44	0.47
2:E4:75:PRO:HA	2:E4:326:LEU:HB2	1.96	0.47
2:E4:292:ASP:HA	2:E4:295:ARG:CD	2.45	0.47
2:F4:284:THR:O	2:F4:285:TYR:HD1	1.97	0.47
1:B:285:GLU:CD	1:B:286:LEU:H	2.23	0.47
1:b1:349:ASN:HB3	1:b1:351:TYR:CD1	2.49	0.47
1:B2:39:ASN:CG	2:C0:103:ASP:OD1	2.57	0.47
1:B2:258:MET:O	1:B2:261:LEU:HG	2.14	0.47
1:B3:208:GLU:HB2	1:B3:218:LYS:HG2	1.97	0.47
1:B3:250:VAL:HG22	1:B3:254:VAL:HG21	1.95	0.47
1:b3:179:ASN:HD21	1:b3:185:ASP:HA	1.78	0.47
1:b3:190:ARG:CZ	1:b3:195:ILE:HD11	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b3:376:ASN:OD1	1:B4:360:ARG:NH1	2.47	0.47
1:b3:457:GLY:HA3	1:B4:459:LYS:NZ	2.29	0.47
1:b4:110:GLU:HG2	1:b4:425:VAL:HG12	1.96	0.47
1:b4:190:ARG:CZ	1:b4:195:ILE:HD11	2.44	0.47
1:b4:375:ARG:HB3	1:B5:364:ALA:HB2	1.95	0.47
1:b5:349:ASN:HB3	1:b5:351:TYR:CD1	2.49	0.47
2:A0:75:PRO:HA	2:A0:326:LEU:HB2	1.96	0.47
2:A0:276:ASN:HB2	2:G0:263:LYS:HZ3	1.79	0.47
2:G0:31:SER:N	2:C0:91:ARG:HH12	2.12	0.47
2:C0:197:ILE:HG22	2:C0:199:VAL:H	1.79	0.47
2:E0:197:ILE:HG22	2:E0:199:VAL:H	1.79	0.47
2:F0:139:LYS:HG3	2:F0:151:GLU:OE2	2.14	0.47
2:A1:292:ASP:HA	2:A1:295:ARG:CD	2.44	0.47
2:E1:77:TYR:CE2	2:E1:288:ILE:HA	2.48	0.47
2:E1:197:ILE:HG22	2:E1:199:VAL:H	1.79	0.47
2:F1:212:LYS:O	2:F1:215:LYS:HG2	2.14	0.47
2:C2:108:ARG:HA	2:C2:111:ILE:HG22	1.97	0.47
2:D3:197:ILE:HG22	2:D3:199:VAL:H	1.79	0.47
2:E3:197:ILE:HG22	2:E3:199:VAL:H	1.79	0.47
2:E3:212:LYS:O	2:E3:215:LYS:HG2	2.14	0.47
2:E3:292:ASP:HA	2:E3:295:ARG:CD	2.44	0.47
2:F3:139:LYS:HG3	2:F3:151:GLU:OE2	2.15	0.47
2:C4:227:GLU:OE1	2:C4:227:GLU:N	2.44	0.47
2:D4:292:ASP:HA	2:D4:295:ARG:CD	2.44	0.47
2:E4:197:ILE:HG22	2:E4:199:VAL:H	1.79	0.47
1:B:179:ASN:HD21	1:B:185:ASP:HA	1.78	0.47
1:B:375:ARG:O	1:B:376:ASN:C	2.57	0.47
1:B1:190:ARG:CZ	1:B1:195:ILE:HD11	2.44	0.47
1:B1:362:ILE:O	1:B1:366:LEU:HG	2.14	0.47
1:B2:150:GLU:OE2	1:B2:246:ARG:NE	2.47	0.47
1:b2:190:ARG:CZ	1:b2:195:ILE:HD11	2.44	0.47
1:b2:258:MET:O	1:b2:261:LEU:HG	2.14	0.47
1:B3:190:ARG:CZ	1:B3:195:ILE:HD11	2.44	0.47
1:b3:208:GLU:HB2	1:b3:218:LYS:HG2	1.97	0.47
1:B4:208:GLU:HB2	1:B4:218:LYS:HG2	1.97	0.47
1:B4:264:LEU:HA	1:B4:267:THR:HG22	1.96	0.47
1:b4:376:ASN:CG	1:B5:360:ARG:HD3	2.40	0.47
1:b5:150:GLU:OE2	1:b5:246:ARG:NE	2.47	0.47
1:b5:362:ILE:O	1:b5:366:LEU:HG	2.14	0.47
2:G0:77:TYR:CE2	2:G0:288:ILE:HA	2.49	0.47
2:G0:116:MET:O	2:G0:120:GLU:OE1	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G0:292:ASP:HA	2:G0:295:ARG:CD	2.45	0.47
2:D0:292:ASP:HA	2:D0:295:ARG:CD	2.45	0.47
2:E0:136:LEU:HD23	2:E0:273:VAL:HG13	1.95	0.47
2:A1:139:LYS:HG3	2:A1:151:GLU:OE2	2.14	0.47
2:G1:212:LYS:O	2:G1:215:LYS:HG2	2.14	0.47
2:C1:108:ARG:HA	2:C1:111:ILE:HG22	1.97	0.47
2:C1:163:THR:HB	2:C1:339:GLN:NE2	2.25	0.47
2:A2:117:ARG:HA	2:A2:120:GLU:OE1	2.13	0.47
2:A2:194:VAL:H	2:G2:263:LYS:HZ2	1.63	0.47
2:A2:284:THR:O	2:A2:285:TYR:HD1	1.97	0.47
2:G2:84:VAL:HG21	2:G2:112:ILE:HG22	1.96	0.47
2:G2:109:ARG:O	2:G2:113:MET:HG2	2.14	0.47
2:G2:212:LYS:O	2:G2:215:LYS:HG2	2.14	0.47
2:G2:292:ASP:HA	2:G2:295:ARG:CD	2.45	0.47
2:C2:292:ASP:HA	2:C2:295:ARG:CD	2.44	0.47
2:D2:136:LEU:HD23	2:D2:273:VAL:HG13	1.95	0.47
2:D2:197:ILE:HG22	2:D2:199:VAL:H	1.79	0.47
2:A3:139:LYS:HG3	2:A3:151:GLU:OE2	2.15	0.47
2:G3:84:VAL:HG21	2:G3:112:ILE:HG22	1.96	0.47
2:G3:139:LYS:HG3	2:G3:151:GLU:OE2	2.15	0.47
2:C3:84:VAL:HG21	2:C3:112:ILE:HG22	1.96	0.47
2:G4:84:VAL:HG21	2:G4:112:ILE:HG22	1.96	0.47
2:C4:14:GLU:HB2	2:C4:16:LYS:HZ3	1.78	0.47
2:C4:51:ALA:HB3	2:D4:259:GLU:HA	1.92	0.47
2:C4:54:VAL:HG21	2:C4:59:SER:HA	1.97	0.47
1:b:240:VAL:N	1:b:244:GLN:OE1	2.47	0.47
1:b:462:GLN:HA	1:b:465:VAL:HG22	1.96	0.47
1:B1:462:GLN:HA	1:B1:465:VAL:HG22	1.96	0.47
1:b1:376:ASN:OD1	1:B2:360:ARG:NH1	2.48	0.47
1:b1:462:GLN:HA	1:b1:465:VAL:HG22	1.96	0.47
1:B2:170:ARG:NH2	1:b2:198:SER:O	2.38	0.47
1:B2:211:TYR:C	1:B2:215:MET:HE2	2.40	0.47
1:B2:349:ASN:HB3	1:B2:351:TYR:CD1	2.49	0.47
1:B2:498:MET:HA	1:B2:501:ARG:HE	1.80	0.47
1:b2:110:GLU:HG2	1:b2:425:VAL:HG12	1.96	0.47
1:b2:208:GLU:HB2	1:b2:218:LYS:HG2	1.97	0.47
1:b2:376:ASN:OD1	1:B3:360:ARG:NH1	2.47	0.47
1:b2:457:GLY:HA3	1:B3:459:LYS:NZ	2.30	0.47
1:B5:349:ASN:HB3	1:B5:351:TYR:CD1	2.49	0.47
2:A0:108:ARG:HA	2:A0:111:ILE:HG22	1.97	0.47
2:A0:135:VAL:HG22	2:A0:329:LEU:HD22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:227:GLU:OE1	2:A0:227:GLU:N	2.44	0.47
2:A0:292:ASP:HA	2:A0:295:ARG:CD	2.44	0.47
2:G0:139:LYS:HG3	2:G0:151:GLU:OE2	2.14	0.47
2:G0:312:GLY:HA2	2:C1:308:TRP:CE3	2.50	0.47
2:F0:117:ARG:HA	2:F0:120:GLU:OE1	2.13	0.47
2:C1:284:THR:O	2:C1:285:TYR:HD1	1.97	0.47
2:D1:292:ASP:HA	2:D1:295:ARG:CD	2.44	0.47
2:E1:117:ARG:HA	2:E1:120:GLU:OE1	2.13	0.47
2:F1:292:ASP:HA	2:F1:295:ARG:CD	2.45	0.47
2:A2:136:LEU:HD23	2:A2:273:VAL:HG13	1.95	0.47
2:A2:197:ILE:HG22	2:A2:199:VAL:H	1.79	0.47
2:D2:139:LYS:HG3	2:D2:151:GLU:OE2	2.14	0.47
2:D2:292:ASP:HA	2:D2:295:ARG:CD	2.44	0.47
2:E2:139:LYS:HG3	2:E2:151:GLU:OE2	2.14	0.47
2:F2:77:TYR:CE2	2:F2:288:ILE:HA	2.49	0.47
2:A3:109:ARG:O	2:A3:113:MET:HG2	2.14	0.47
2:G3:135:VAL:HG22	2:G3:329:LEU:HD22	1.95	0.47
2:G3:163:THR:HB	2:G3:339:GLN:NE2	2.25	0.47
2:G3:292:ASP:HA	2:G3:295:ARG:CD	2.44	0.47
2:C3:109:ARG:O	2:C3:113:MET:HG2	2.14	0.47
2:F3:109:ARG:O	2:F3:113:MET:HG2	2.14	0.47
2:A4:136:LEU:HD23	2:A4:273:VAL:HG13	1.95	0.47
2:G4:77:TYR:CE2	2:G4:288:ILE:HA	2.49	0.47
2:G4:117:ARG:HA	2:G4:120:GLU:OE1	2.13	0.47
2:C4:197:ILE:HG22	2:C4:199:VAL:H	1.79	0.47
2:D4:108:ARG:HA	2:D4:111:ILE:HG22	1.97	0.47
2:D4:212:LYS:O	2:D4:215:LYS:HG2	2.14	0.47
2:E4:84:VAL:HG21	2:E4:112:ILE:HG22	1.96	0.47
2:E4:212:LYS:O	2:E4:215:LYS:HG2	2.14	0.47
2:F4:84:VAL:HG21	2:F4:112:ILE:HG22	1.96	0.47
1:b:80:HIS:CE1	1:B1:395:TYR:OH	2.68	0.47
1:b:457:GLY:HA3	1:B1:459:LYS:NZ	2.29	0.47
1:b1:498:MET:HA	1:b1:501:ARG:HE	1.80	0.47
1:B2:187:ARG:O	1:B2:190:ARG:NE	2.45	0.47
1:B3:362:ILE:O	1:B3:366:LEU:HG	2.14	0.47
1:B4:185:ASP:OD1	1:B4:185:ASP:N	2.47	0.47
1:B5:240:VAL:N	1:B5:244:GLN:OE1	2.47	0.47
2:C0:28:PHE:HA	2:C0:281:GLY:HA3	1.94	0.47
2:D0:75:PRO:HA	2:D0:326:LEU:HB2	1.96	0.47
2:E0:54:VAL:HG21	2:E0:59:SER:HA	1.97	0.47
2:F0:54:VAL:HG21	2:F0:59:SER:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:108:ARG:HA	2:A1:111:ILE:HG22	1.97	0.47
2:A1:284:THR:O	2:A1:285:TYR:HD1	1.97	0.47
2:G1:292:ASP:HA	2:G1:295:ARG:CD	2.45	0.47
2:C1:292:ASP:HA	2:C1:295:ARG:CD	2.44	0.47
2:E1:284:THR:O	2:E1:285:TYR:HD1	1.97	0.47
2:E1:292:ASP:HA	2:E1:295:ARG:CD	2.45	0.47
2:F1:197:ILE:HG22	2:F1:199:VAL:H	1.79	0.47
2:A2:135:VAL:HG22	2:A2:329:LEU:HD22	1.95	0.47
2:G2:77:TYR:CE2	2:G2:288:ILE:HA	2.49	0.47
2:D2:54:VAL:HG21	2:D2:59:SER:HA	1.97	0.47
2:D2:227:GLU:O	2:D2:230:THR:OG1	2.26	0.47
2:E2:54:VAL:HG21	2:E2:59:SER:HA	1.97	0.47
2:A3:197:ILE:HG22	2:A3:199:VAL:H	1.79	0.47
2:A3:284:THR:O	2:A3:285:TYR:HD1	1.97	0.47
2:G4:31:SER:N	2:C4:91:ARG:HH12	2.12	0.47
2:C4:50:MET:HB3	2:D4:258:VAL:CG2	2.42	0.47
2:D4:84:VAL:HG21	2:D4:112:ILE:HG22	1.96	0.47
1:B:240:VAL:N	1:B:244:GLN:OE1	2.47	0.47
1:B:258:MET:O	1:B:261:LEU:HG	2.14	0.47
1:B:459:LYS:NZ	1:b5:457:GLY:HA3	2.30	0.47
1:b:252:TYR:C	1:b:255:MET:HE1	2.40	0.47
1:b:285:GLU:CD	1:b:286:LEU:H	2.23	0.47
1:b1:80:HIS:CE1	1:B2:395:TYR:OH	2.68	0.47
1:B2:80:HIS:CE1	1:b2:395:TYR:OH	2.68	0.47
1:b2:252:TYR:C	1:b2:255:MET:HE1	2.40	0.47
1:b2:264:LEU:HA	1:b2:267:THR:HG22	1.96	0.47
1:B3:111:VAL:HG12	1:B3:425:VAL:HG11	1.97	0.47
1:B3:258:MET:O	1:B3:261:LEU:HG	2.14	0.47
1:B3:264:LEU:HA	1:B3:267:THR:HG22	1.96	0.47
1:b3:80:HIS:CE1	1:B4:395:TYR:OH	2.68	0.47
1:b3:258:MET:O	1:b3:261:LEU:HG	2.14	0.47
1:b3:264:LEU:HA	1:b3:267:THR:HG22	1.97	0.47
1:B4:150:GLU:OE2	1:B4:246:ARG:NE	2.47	0.47
1:B4:190:ARG:CZ	1:B4:195:ILE:HD11	2.44	0.47
1:B4:211:TYR:C	1:B4:215:MET:HE2	2.40	0.47
1:B4:258:MET:O	1:B4:261:LEU:HG	2.14	0.47
1:B4:362:ILE:O	1:B4:366:LEU:HG	2.14	0.47
1:b4:208:GLU:HB2	1:b4:218:LYS:HG2	1.97	0.47
1:b4:212:PRO:HG3	1:B5:187:ARG:HA	1.96	0.47
1:b4:258:MET:O	1:b4:261:LEU:HG	2.14	0.47
1:b4:264:LEU:HA	1:b4:267:THR:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b4:349:ASN:HB3	1:b4:351:TYR:CD1	2.49	0.47
1:B5:80:HIS:CE1	1:b5:395:TYR:OH	2.68	0.47
1:B5:190:ARG:CZ	1:B5:195:ILE:HD11	2.44	0.47
1:B5:211:TYR:C	1:B5:215:MET:HE2	2.40	0.47
1:b5:85:PHE:CE2	1:b5:87:ARG:HB2	2.48	0.47
1:b5:270:GLN:O	1:b5:274:VAL:HG12	2.15	0.47
1:b5:285:GLU:CD	1:b5:286:LEU:H	2.23	0.47
2:G0:108:ARG:HA	2:G0:111:ILE:HG22	1.97	0.47
2:G0:109:ARG:O	2:G0:113:MET:HG2	2.14	0.47
2:G0:197:ILE:HG22	2:G0:199:VAL:H	1.79	0.47
2:G0:212:LYS:O	2:G0:215:LYS:HG2	2.14	0.47
2:C0:14:GLU:HB2	2:C0:16:LYS:HZ3	1.79	0.47
2:C0:135:VAL:HG22	2:C0:329:LEU:HD22	1.95	0.47
2:D0:109:ARG:O	2:D0:113:MET:HG2	2.14	0.47
2:E0:108:ARG:HA	2:E0:111:ILE:HG22	1.97	0.47
2:E0:139:LYS:HG3	2:E0:151:GLU:OE2	2.14	0.47
2:F0:109:ARG:O	2:F0:113:MET:HG2	2.14	0.47
2:F0:212:LYS:O	2:F0:215:LYS:HG2	2.14	0.47
2:A1:192:SER:HB2	2:G1:262:VAL:HG23	1.95	0.47
2:A1:212:LYS:O	2:A1:215:LYS:HG2	2.14	0.47
2:G1:139:LYS:HG3	2:G1:151:GLU:OE2	2.14	0.47
2:G1:306:LYS:HZ2	2:G1:308:TRP:CD1	2.32	0.47
2:D1:136:LEU:HD23	2:D1:273:VAL:HG13	1.95	0.47
2:D1:284:THR:O	2:D1:285:TYR:HD1	1.97	0.47
2:E1:84:VAL:HG21	2:E1:112:ILE:HG22	1.96	0.47
2:E1:308:TRP:NE1	2:E1:320:MET:HB2	2.20	0.47
2:F1:7:ALA:HB2	2:F1:309:VAL:HG23	1.95	0.47
2:F1:109:ARG:O	2:F1:113:MET:HG2	2.14	0.47
2:G2:108:ARG:HA	2:G2:111:ILE:HG22	1.97	0.47
2:C2:139:LYS:HG3	2:C2:151:GLU:OE2	2.15	0.47
2:C2:212:LYS:O	2:C2:215:LYS:HG2	2.14	0.47
2:E2:116:MET:O	2:E2:120:GLU:OE1	2.31	0.47
2:F2:54:VAL:HG21	2:F2:59:SER:HA	1.97	0.47
2:A3:75:PRO:HA	2:A3:326:LEU:HB2	1.96	0.47
2:G3:109:ARG:O	2:G3:113:MET:HG2	2.14	0.47
2:G3:312:GLY:HA2	2:C4:308:TRP:CE3	2.50	0.47
2:C3:49:ASN:OD1	2:D3:260:ASN:HA	2.15	0.47
2:C3:108:ARG:HA	2:C3:111:ILE:HG22	1.97	0.47
2:C3:139:LYS:HG3	2:C3:151:GLU:OE2	2.14	0.47
2:D3:109:ARG:O	2:D3:113:MET:HG2	2.14	0.47
2:D3:227:GLU:O	2:D3:230:THR:OG1	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D3:284:THR:O	2:D3:285:TYR:HD1	1.97	0.47
2:F3:54:VAL:HG21	2:F3:59:SER:HA	1.97	0.47
2:A4:139:LYS:HG3	2:A4:151:GLU:OE2	2.15	0.47
2:G4:292:ASP:HA	2:G4:295:ARG:CD	2.44	0.47
2:C4:292:ASP:HA	2:C4:295:ARG:CD	2.45	0.47
2:D4:77:TYR:CE2	2:D4:288:ILE:HA	2.49	0.47
2:E4:163:THR:HB	2:E4:339:GLN:NE2	2.25	0.47
2:E4:284:THR:O	2:E4:285:TYR:HD1	1.97	0.47
2:F4:54:VAL:HG21	2:F4:59:SER:HA	1.97	0.47
2:F4:163:THR:HB	2:F4:339:GLN:NE2	2.25	0.47
2:F4:292:ASP:HA	2:F4:295:ARG:CD	2.45	0.47
1:B:96:TYR:CD2	1:b5:117:GLU:HG2	2.49	0.47
1:b:211:TYR:C	1:b:215:MET:HE2	2.40	0.47
1:B2:208:GLU:HB2	1:B2:218:LYS:HG2	1.97	0.47
1:b2:211:TYR:C	1:b2:215:MET:HE2	2.40	0.47
1:b2:349:ASN:HB3	1:b2:351:TYR:CD1	2.49	0.47
1:B3:211:TYR:C	1:B3:215:MET:HE2	2.40	0.47
1:B4:375:ARG:HB3	1:b4:364:ALA:HB2	1.96	0.47
1:b4:111:VAL:HG12	1:b4:425:VAL:HG11	1.97	0.47
1:b4:362:ILE:O	1:b4:366:LEU:HG	2.14	0.47
1:B5:181:ASN:HA	1:B5:219:TRP:CZ3	2.50	0.47
1:b5:179:ASN:HD21	1:b5:185:ASP:HA	1.78	0.47
1:b5:211:TYR:C	1:b5:215:MET:HE2	2.40	0.47
2:F0:75:PRO:HA	2:F0:326:LEU:HB2	1.96	0.47
2:G1:77:TYR:CE2	2:G1:288:ILE:HA	2.49	0.47
2:C1:77:TYR:CE2	2:C1:288:ILE:HA	2.49	0.47
2:C1:212:LYS:O	2:C1:215:LYS:HG2	2.14	0.47
2:D1:212:LYS:O	2:D1:215:LYS:HG2	2.14	0.47
2:F1:136:LEU:HD23	2:F1:273:VAL:HG13	1.95	0.47
2:A2:139:LYS:HG3	2:A2:151:GLU:OE2	2.14	0.47
2:A2:292:ASP:HA	2:A2:295:ARG:CD	2.45	0.47
2:G2:139:LYS:HG3	2:G2:151:GLU:OE2	2.15	0.47
2:G2:312:GLY:HA2	2:C3:308:TRP:CE3	2.50	0.47
2:C2:77:TYR:CE2	2:C2:288:ILE:HA	2.48	0.47
2:C2:109:ARG:O	2:C2:113:MET:HG2	2.14	0.47
2:D2:77:TYR:CE2	2:D2:288:ILE:HA	2.49	0.47
2:D2:108:ARG:HA	2:D2:111:ILE:HG22	1.97	0.47
2:E2:212:LYS:O	2:E2:215:LYS:HG2	2.14	0.47
2:F2:124:ALA:O	2:F2:128:GLU:HG2	2.15	0.47
2:G3:108:ARG:HA	2:G3:111:ILE:HG22	1.97	0.47
2:D3:75:PRO:HA	2:D3:326:LEU:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D3:77:TYR:CE2	2:D3:288:ILE:HA	2.49	0.47
2:D3:108:ARG:HA	2:D3:111:ILE:HG22	1.97	0.47
2:D3:139:LYS:HG3	2:D3:151:GLU:OE2	2.14	0.47
2:F3:284:THR:O	2:F3:285:TYR:HD1	1.97	0.47
2:C4:284:THR:O	2:C4:285:TYR:HD1	1.97	0.47
2:D4:109:ARG:O	2:D4:113:MET:HG2	2.14	0.47
2:D4:194:VAL:H	2:E4:263:LYS:NZ	2.11	0.47
2:D4:197:ILE:HG22	2:D4:199:VAL:H	1.79	0.47
2:D4:227:GLU:O	2:D4:230:THR:OG1	2.26	0.47
2:E4:77:TYR:CE2	2:E4:288:ILE:HA	2.48	0.47
2:E4:139:LYS:HG3	2:E4:151:GLU:OE2	2.15	0.47
1:B:111:VAL:HG12	1:B:425:VAL:HG11	1.97	0.47
1:B:181:ASN:HA	1:B:219:TRP:CZ3	2.50	0.47
1:B:374:SER:HB2	1:b:360:ARG:O	2.15	0.47
1:b:110:GLU:HG2	1:b:425:VAL:HG12	1.96	0.47
1:B1:111:VAL:HG12	1:B1:425:VAL:HG11	1.97	0.47
1:B1:240:VAL:N	1:B1:244:GLN:OE1	2.47	0.47
1:B1:285:GLU:CD	1:B1:286:LEU:H	2.23	0.47
1:B1:376:ASN:OD1	1:b1:360:ARG:NH1	2.48	0.47
1:b1:252:TYR:C	1:b1:255:MET:HE1	2.40	0.47
1:b2:282:ILE:HB	1:b2:333:LEU:O	2.15	0.47
1:b2:498:MET:HA	1:b2:501:ARG:HE	1.80	0.47
1:B3:282:ILE:HB	1:B3:333:LEU:O	2.15	0.47
1:b3:252:TYR:C	1:b3:255:MET:HE1	2.40	0.47
1:b3:349:ASN:HB3	1:b3:351:TYR:CD1	2.49	0.47
1:B4:375:ARG:O	1:B4:376:ASN:C	2.57	0.47
1:b4:117:GLU:HG2	1:B5:96:TYR:CD2	2.50	0.47
1:b4:181:ASN:HA	1:b4:219:TRP:CZ3	2.50	0.47
1:b4:270:GLN:O	1:b4:274:VAL:HG12	2.15	0.47
1:B5:258:MET:O	1:B5:261:LEU:HG	2.14	0.47
1:B5:285:GLU:CD	1:B5:286:LEU:H	2.23	0.47
2:G0:124:ALA:O	2:G0:128:GLU:HG2	2.15	0.47
2:C0:212:LYS:O	2:C0:215:LYS:HG2	2.14	0.47
2:D0:284:THR:O	2:D0:285:TYR:HD1	1.97	0.47
2:E0:124:ALA:O	2:E0:128:GLU:HG2	2.15	0.47
2:F0:292:ASP:HA	2:F0:295:ARG:CD	2.45	0.47
2:G1:284:THR:O	2:G1:285:TYR:HD1	1.97	0.47
2:C1:49:ASN:OD1	2:D1:260:ASN:HA	2.15	0.47
2:C1:136:LEU:HD23	2:C1:273:VAL:HG13	1.95	0.47
2:D1:227:GLU:OE1	2:D1:227:GLU:N	2.44	0.47
2:E1:54:VAL:HG21	2:E1:59:SER:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E1:75:PRO:HA	2:E1:326:LEU:HB2	1.96	0.47
2:E1:139:LYS:HG3	2:E1:151:GLU:OE2	2.15	0.47
2:E1:212:LYS:O	2:E1:215:LYS:HG2	2.14	0.47
2:C2:49:ASN:OD1	2:D2:260:ASN:HA	2.15	0.47
2:E2:235:LEU:HD23	2:E2:237:LYS:HZ1	1.79	0.47
2:A3:91:ARG:HH22	2:F3:31:SER:C	2.19	0.47
2:G3:124:ALA:O	2:G3:128:GLU:HG2	2.15	0.47
2:C3:124:ALA:O	2:C3:128:GLU:HG2	2.15	0.47
2:D3:84:VAL:HG21	2:D3:112:ILE:HG22	1.96	0.47
2:E3:54:VAL:HG21	2:E3:59:SER:HA	1.97	0.47
2:A4:75:PRO:HA	2:A4:326:LEU:HB2	1.96	0.47
2:A4:124:ALA:O	2:A4:128:GLU:HG2	2.15	0.47
2:G4:108:ARG:HA	2:G4:111:ILE:HG22	1.97	0.47
2:G4:124:ALA:O	2:G4:128:GLU:HG2	2.15	0.47
2:F4:124:ALA:O	2:F4:128:GLU:HG2	2.15	0.47
1:B:270:GLN:O	1:B:274:VAL:HG12	2.15	0.47
1:B:376:ASN:OD1	1:b:360:ARG:NH1	2.47	0.47
1:B1:211:TYR:C	1:B1:215:MET:HE2	2.40	0.47
1:B1:498:MET:HA	1:B1:501:ARG:HE	1.80	0.47
1:b1:150:GLU:OE2	1:b1:246:ARG:NE	2.47	0.47
1:b1:208:GLU:HB2	1:b1:218:LYS:HG2	1.97	0.47
1:b1:211:TYR:C	1:b1:215:MET:HE2	2.40	0.47
1:b1:362:ILE:O	1:b1:366:LEU:HG	2.14	0.47
1:b1:369:SER:HB2	1:b1:371:GLU:OE1	2.16	0.47
1:b2:212:PRO:HG3	1:B3:187:ARG:HA	1.97	0.47
1:B3:212:PRO:HG3	1:b3:187:ARG:HA	1.97	0.47
1:B3:270:GLN:O	1:B3:274:VAL:HG12	2.15	0.47
1:B3:349:ASN:HB3	1:B3:351:TYR:CD1	2.49	0.47
1:b3:375:ARG:HB3	1:B4:364:ALA:HB2	1.97	0.47
1:B4:270:GLN:O	1:B4:274:VAL:HG12	2.15	0.47
1:B4:349:ASN:HB3	1:B4:351:TYR:CD1	2.49	0.47
1:B5:208:GLU:HB2	1:B5:218:LYS:HG2	1.97	0.47
1:B5:252:TYR:C	1:B5:255:MET:HE1	2.40	0.47
1:B5:270:GLN:O	1:B5:274:VAL:HG12	2.15	0.47
1:b5:111:VAL:HG12	1:b5:425:VAL:HG11	1.97	0.47
1:b5:181:ASN:HA	1:b5:219:TRP:CZ3	2.50	0.47
2:A0:139:LYS:HG3	2:A0:151:GLU:OE2	2.14	0.47
2:C0:108:ARG:HA	2:C0:111:ILE:HG22	1.97	0.47
2:C0:124:ALA:O	2:C0:128:GLU:HG2	2.15	0.47
2:C0:139:LYS:HG3	2:C0:151:GLU:OE2	2.14	0.47
2:C0:284:THR:O	2:C0:285:TYR:HD1	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D0:124:ALA:O	2:D0:128:GLU:HG2	2.15	0.47
2:E0:284:THR:O	2:E0:285:TYR:HD1	1.97	0.47
2:A1:124:ALA:O	2:A1:128:GLU:HG2	2.15	0.47
2:G1:54:VAL:HG21	2:G1:59:SER:HA	1.97	0.47
2:G1:312:GLY:HA2	2:C2:308:TRP:CE3	2.50	0.47
2:D1:124:ALA:O	2:D1:128:GLU:HG2	2.15	0.47
2:F1:138:GLY:HA2	2:F1:154:MET:HE2	1.97	0.47
2:F1:139:LYS:HG3	2:F1:151:GLU:OE2	2.15	0.47
2:A2:229:GLU:C	2:A2:233:LYS:HZ3	2.22	0.47
2:C2:138:GLY:HA2	2:C2:154:MET:HE2	1.97	0.47
2:D2:79:LYS:HB2	2:D2:320:MET:CE	2.45	0.47
2:D2:109:ARG:O	2:D2:113:MET:HG2	2.14	0.47
2:D2:284:THR:O	2:D2:285:TYR:HD1	1.97	0.47
2:A3:138:GLY:HA2	2:A3:154:MET:HE2	1.97	0.47
2:C3:14:GLU:HB2	2:C3:16:LYS:HZ1	1.79	0.47
2:F3:124:ALA:O	2:F3:128:GLU:HG2	2.15	0.47
2:A4:79:LYS:HB2	2:A4:320:MET:CE	2.45	0.47
2:G4:138:GLY:HA2	2:G4:154:MET:HE2	1.97	0.47
1:B:110:GLU:HG2	1:B:425:VAL:HG12	1.96	0.46
1:b:270:GLN:O	1:b:274:VAL:HG12	2.15	0.46
1:b:317:TYR:CE2	1:B1:334:MET:SD	3.09	0.46
1:b:369:SER:HB2	1:b:371:GLU:OE1	2.16	0.46
1:b1:111:VAL:HG12	1:b1:425:VAL:HG11	1.97	0.46
1:b1:285:GLU:CD	1:b1:286:LEU:H	2.23	0.46
1:b1:370:TYR:C	1:b1:372:GLN:N	2.70	0.46
1:b2:111:VAL:HG12	1:b2:425:VAL:HG11	1.97	0.46
1:b3:211:TYR:C	1:b3:215:MET:HE2	2.40	0.46
1:b3:282:ILE:HB	1:b3:333:LEU:O	2.15	0.46
1:B4:111:VAL:HG12	1:B4:425:VAL:HG11	1.97	0.46
1:B4:252:TYR:C	1:B4:255:MET:HE1	2.40	0.46
1:B4:368:VAL:HG12	1:B4:396:PHE:CZ	2.46	0.46
1:b4:282:ILE:HB	1:b4:333:LEU:O	2.16	0.46
1:b5:185:ASP:N	1:b5:185:ASP:OD1	2.47	0.46
2:A0:284:THR:O	2:A0:285:TYR:HD1	1.97	0.46
2:G0:119:GLU:CB	2:G0:321:ILE:HG13	2.46	0.46
2:G0:163:THR:HB	2:G0:339:GLN:NE2	2.25	0.46
2:D0:108:ARG:HA	2:D0:111:ILE:HG22	1.97	0.46
2:D0:139:LYS:HG3	2:D0:151:GLU:OE2	2.15	0.46
2:F0:197:ILE:HG22	2:F0:199:VAL:H	1.79	0.46
2:G1:109:ARG:O	2:G1:113:MET:HG2	2.14	0.46
2:C1:54:VAL:HG21	2:C1:59:SER:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D1:54:VAL:HG21	2:D1:59:SER:HA	1.97	0.46
2:D1:138:GLY:HA2	2:D1:154:MET:HE2	1.98	0.46
2:F1:54:VAL:HG21	2:F1:59:SER:HA	1.97	0.46
2:A2:109:ARG:O	2:A2:113:MET:HG2	2.14	0.46
2:G2:119:GLU:CB	2:G2:321:ILE:HG13	2.46	0.46
2:E2:292:ASP:HA	2:E2:295:ARG:CD	2.45	0.46
2:F2:212:LYS:O	2:F2:215:LYS:HG2	2.14	0.46
2:A3:108:ARG:HA	2:A3:111:ILE:HG22	1.97	0.46
2:G3:75:PRO:HA	2:G3:326:LEU:HB2	1.96	0.46
2:G3:227:GLU:O	2:G3:230:THR:OG1	2.26	0.46
2:C3:197:ILE:HG22	2:C3:199:VAL:H	1.79	0.46
2:C3:284:THR:O	2:C3:285:TYR:HD1	1.97	0.46
2:A4:306:LYS:HZ2	2:A4:308:TRP:CD1	2.32	0.46
2:G4:284:THR:O	2:G4:285:TYR:HD1	1.97	0.46
2:C4:84:VAL:HG21	2:C4:112:ILE:HG22	1.96	0.46
2:C4:124:ALA:O	2:C4:128:GLU:HG2	2.15	0.46
2:E4:54:VAL:HG21	2:E4:59:SER:HA	1.97	0.46
2:F4:64:ARG:H	2:F4:66:ARG:NH1	2.11	0.46
2:F4:227:GLU:O	2:F4:230:THR:OG1	2.26	0.46
1:B:259:LYS:HZ1	1:b5:265:GLN:CG	2.29	0.46
1:B:362:ILE:O	1:B:366:LEU:HG	2.14	0.46
1:b:282:ILE:HB	1:b:333:LEU:O	2.15	0.46
1:B1:85:PHE:CE2	1:B1:87:ARG:HB2	2.48	0.46
1:B1:110:GLU:HG2	1:B1:425:VAL:HG12	1.96	0.46
1:B1:282:ILE:HB	1:B1:333:LEU:O	2.15	0.46
1:B1:368:VAL:HG12	1:B1:396:PHE:CZ	2.46	0.46
1:B1:369:SER:HB2	1:B1:371:GLU:OE1	2.16	0.46
1:B1:374:SER:OG	1:b1:360:ARG:CZ	2.62	0.46
1:b1:190:ARG:CZ	1:b1:195:ILE:HD11	2.44	0.46
1:b1:375:ARG:HB3	1:B2:364:ALA:HB2	1.97	0.46
1:B2:265:GLN:HG3	1:b2:259:LYS:HZ1	1.81	0.46
1:B2:270:GLN:O	1:B2:274:VAL:HG12	2.15	0.46
1:B2:282:ILE:HB	1:B2:333:LEU:O	2.15	0.46
1:b2:370:TYR:C	1:b2:372:GLN:N	2.70	0.46
1:b2:374:SER:OG	1:B3:360:ARG:CZ	2.63	0.46
1:b3:212:PRO:HG3	1:B4:187:ARG:HA	1.97	0.46
1:b3:240:VAL:N	1:b3:244:GLN:OE1	2.47	0.46
1:b3:270:GLN:O	1:b3:274:VAL:HG12	2.15	0.46
1:b3:285:GLU:CD	1:b3:286:LEU:H	2.23	0.46
1:b3:370:TYR:C	1:b3:372:GLN:N	2.71	0.46
1:B4:117:GLU:HG2	1:b4:96:TYR:CD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b4:368:VAL:HG12	1:b4:396:PHE:CZ	2.46	0.46
1:b4:369:SER:HB2	1:b4:371:GLU:OE1	2.15	0.46
1:b5:252:TYR:C	1:b5:255:MET:HE1	2.40	0.46
1:b5:282:ILE:HB	1:b5:333:LEU:O	2.15	0.46
2:G0:306:LYS:HZ2	2:G0:308:TRP:CD1	2.33	0.46
2:C0:109:ARG:O	2:C0:113:MET:HG2	2.14	0.46
2:C0:119:GLU:CB	2:C0:321:ILE:HG13	2.46	0.46
2:F0:227:GLU:OE1	2:F0:227:GLU:N	2.44	0.46
2:C1:24:LEU:HA	2:C1:28:PHE:HB2	1.98	0.46
2:D1:79:LYS:HB2	2:D1:320:MET:CE	2.45	0.46
2:D1:119:GLU:CB	2:D1:321:ILE:HG13	2.46	0.46
2:D1:197:ILE:HG22	2:D1:199:VAL:H	1.79	0.46
2:E1:108:ARG:HA	2:E1:111:ILE:HG22	1.97	0.46
2:A2:306:LYS:HZ2	2:A2:308:TRP:CD1	2.33	0.46
2:G2:54:VAL:HG21	2:G2:59:SER:HA	1.97	0.46
2:G2:75:PRO:HA	2:G2:326:LEU:HB2	1.96	0.46
2:C2:197:ILE:HG22	2:C2:199:VAL:H	1.79	0.46
2:C2:284:THR:O	2:C2:285:TYR:HD1	1.97	0.46
2:E2:84:VAL:HG21	2:E2:112:ILE:HG22	1.96	0.46
2:A3:54:VAL:HG21	2:A3:59:SER:HA	1.97	0.46
2:G3:138:GLY:HA2	2:G3:154:MET:HE2	1.98	0.46
2:E3:24:LEU:HA	2:E3:28:PHE:HB2	1.98	0.46
2:E3:119:GLU:CB	2:E3:321:ILE:HG13	2.46	0.46
2:F3:212:LYS:O	2:F3:215:LYS:HG2	2.14	0.46
2:A4:119:GLU:CB	2:A4:321:ILE:HG13	2.46	0.46
2:A4:276:ASN:HD22	2:G4:263:LYS:HZ3	1.62	0.46
2:G4:75:PRO:HA	2:G4:326:LEU:HB2	1.96	0.46
2:D4:119:GLU:CB	2:D4:321:ILE:HG13	2.46	0.46
2:D4:196:ASN:HA	2:D4:248:VAL:HG23	1.98	0.46
2:E4:124:ALA:O	2:E4:128:GLU:HG2	2.15	0.46
1:B:212:PRO:HD3	1:b:190:ARG:CZ	2.45	0.46
1:B:374:SER:OG	1:b:360:ARG:CZ	2.63	0.46
1:b:181:ASN:HA	1:b:219:TRP:CZ3	2.50	0.46
1:b:375:ARG:O	1:b:376:ASN:C	2.57	0.46
1:B1:208:GLU:HB2	1:B1:218:LYS:HG2	1.97	0.46
1:B1:270:GLN:O	1:B1:274:VAL:HG12	2.15	0.46
1:B1:461:VAL:HG11	1:b1:462:GLN:OE1	2.16	0.46
1:B2:110:GLU:HG2	1:B2:425:VAL:HG12	1.96	0.46
1:B2:264:LEU:HA	1:B2:267:THR:HG22	1.96	0.46
1:B2:375:ARG:O	1:B2:376:ASN:C	2.57	0.46
1:b2:375:ARG:O	1:b2:376:ASN:C	2.57	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B3:285:GLU:CD	1:B3:286:LEU:H	2.23	0.46
1:B3:376:ASN:CG	1:b3:360:ARG:HD3	2.40	0.46
1:B4:181:ASN:HA	1:B4:219:TRP:CZ3	2.50	0.46
1:B5:110:GLU:HG2	1:B5:425:VAL:HG12	1.96	0.46
2:D0:119:GLU:CB	2:D0:321:ILE:HG13	2.46	0.46
2:A1:24:LEU:HA	2:A1:28:PHE:HB2	1.98	0.46
2:G1:108:ARG:HA	2:G1:111:ILE:HG22	1.97	0.46
2:E1:196:ASN:HA	2:E1:248:VAL:HG23	1.98	0.46
2:A2:108:ARG:HA	2:A2:111:ILE:HG22	1.97	0.46
2:A2:227:GLU:OE1	2:A2:227:GLU:N	2.44	0.46
2:E2:50:MET:SD	2:F2:121:LEU:HD12	2.56	0.46
2:D3:79:LYS:HB2	2:D3:320:MET:CE	2.45	0.46
2:E3:75:PRO:HA	2:E3:326:LEU:HB2	1.96	0.46
2:F3:119:GLU:CB	2:F3:321:ILE:HG13	2.46	0.46
2:F3:138:GLY:HA2	2:F3:154:MET:HE2	1.98	0.46
2:F3:196:ASN:HA	2:F3:248:VAL:HG23	1.98	0.46
2:A4:138:GLY:HA2	2:A4:154:MET:HE2	1.98	0.46
2:A4:284:THR:O	2:A4:285:TYR:HD1	1.97	0.46
2:G4:119:GLU:CB	2:G4:321:ILE:HG13	2.46	0.46
2:C4:24:LEU:HA	2:C4:28:PHE:HB2	1.98	0.46
2:C4:49:ASN:OD1	2:D4:260:ASN:HA	2.15	0.46
2:C4:108:ARG:HA	2:C4:111:ILE:HG22	1.97	0.46
2:C4:138:GLY:HA2	2:C4:154:MET:HE2	1.98	0.46
2:D4:75:PRO:HA	2:D4:326:LEU:HB2	1.96	0.46
2:D4:284:THR:O	2:D4:285:TYR:HD1	1.97	0.46
1:B:190:ARG:CZ	1:B:195:ILE:HD11	2.44	0.46
1:B:208:GLU:HB2	1:B:218:LYS:HG2	1.97	0.46
1:b:208:GLU:HB2	1:b:218:LYS:HG2	1.97	0.46
1:B1:374:SER:HB2	1:b1:360:ARG:O	2.15	0.46
1:B1:375:ARG:O	1:B1:376:ASN:C	2.57	0.46
1:b1:270:GLN:O	1:b1:274:VAL:HG12	2.15	0.46
1:B2:369:SER:HB2	1:B2:371:GLU:OE1	2.16	0.46
1:b2:362:ILE:O	1:b2:366:LEU:HG	2.14	0.46
1:b2:375:ARG:HB3	1:B3:364:ALA:HB2	1.97	0.46
1:B3:374:SER:HB2	1:b3:360:ARG:O	2.14	0.46
1:B3:498:MET:HA	1:B3:501:ARG:HE	1.80	0.46
1:b3:150:GLU:OE2	1:b3:246:ARG:NE	2.47	0.46
1:b3:368:VAL:HG12	1:b3:396:PHE:CZ	2.46	0.46
1:b4:166:ARG:N	1:b4:418:GLU:OE2	2.49	0.46
1:b4:252:TYR:C	1:b4:255:MET:HE1	2.40	0.46
1:b4:285:GLU:CD	1:b4:286:LEU:H	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:166:ARG:N	1:B5:418:GLU:OE2	2.49	0.46
1:B5:264:LEU:HA	1:B5:267:THR:HG22	1.96	0.46
1:b5:208:GLU:HB2	1:b5:218:LYS:HG2	1.97	0.46
1:b5:369:SER:HB2	1:b5:371:GLU:OE1	2.16	0.46
2:A0:119:GLU:CB	2:A0:321:ILE:HG13	2.46	0.46
2:A0:138:GLY:HA2	2:A0:154:MET:HE2	1.97	0.46
2:A0:196:ASN:HA	2:A0:248:VAL:HG23	1.98	0.46
2:G0:227:GLU:OE1	2:G0:227:GLU:N	2.44	0.46
2:C0:49:ASN:OD1	2:D0:260:ASN:HA	2.15	0.46
2:D0:196:ASN:HA	2:D0:248:VAL:HG23	1.98	0.46
2:E0:50:MET:SD	2:F0:121:LEU:HD12	2.56	0.46
2:E0:119:GLU:CB	2:E0:321:ILE:HG13	2.46	0.46
2:F0:227:GLU:O	2:F0:230:THR:OG1	2.26	0.46
2:A1:79:LYS:HB2	2:A1:320:MET:CE	2.45	0.46
2:G1:14:GLU:HB2	2:G1:16:LYS:HZ3	1.80	0.46
2:C1:139:LYS:HG3	2:C1:151:GLU:OE2	2.14	0.46
2:D1:109:ARG:O	2:D1:113:MET:HG2	2.14	0.46
2:D1:139:LYS:HG3	2:D1:151:GLU:OE2	2.14	0.46
2:E1:119:GLU:CB	2:E1:321:ILE:HG13	2.46	0.46
2:F1:124:ALA:O	2:F1:128:GLU:HG2	2.15	0.46
2:F1:308:TRP:NE1	2:F1:320:MET:HB2	2.20	0.46
2:G2:79:LYS:HB2	2:G2:320:MET:CE	2.45	0.46
2:D2:75:PRO:HA	2:D2:326:LEU:HB2	1.96	0.46
2:E2:56:PRO:HA	2:F2:79:LYS:HZ2	1.80	0.46
2:F2:138:GLY:HA2	2:F2:154:MET:HE2	1.98	0.46
2:A3:84:VAL:HG21	2:A3:112:ILE:HG22	1.96	0.46
2:A3:124:ALA:O	2:A3:128:GLU:HG2	2.15	0.46
2:G3:119:GLU:CB	2:G3:321:ILE:HG13	2.46	0.46
2:C3:227:GLU:O	2:C3:230:THR:OG1	2.26	0.46
2:E3:84:VAL:HG21	2:E3:112:ILE:HG22	1.96	0.46
2:F3:75:PRO:HA	2:F3:326:LEU:HB2	1.96	0.46
2:A4:54:VAL:HG21	2:A4:59:SER:HA	1.97	0.46
2:A4:196:ASN:HA	2:A4:248:VAL:HG23	1.98	0.46
2:D4:124:ALA:O	2:D4:128:GLU:HG2	2.15	0.46
2:E4:56:PRO:HA	2:F4:79:LYS:HZ2	1.80	0.46
2:E4:119:GLU:CB	2:E4:321:ILE:HG13	2.46	0.46
2:F4:139:LYS:HG3	2:F4:151:GLU:OE2	2.14	0.46
1:B:282:ILE:HB	1:B:333:LEU:O	2.15	0.46
1:b:212:PRO:HD3	1:B1:190:ARG:CZ	2.45	0.46
1:b:374:SER:OG	1:B1:360:ARG:CZ	2.63	0.46
1:b:498:MET:HA	1:b:501:ARG:HE	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:176:ARG:NE	1:B1:207:SER:O	2.39	0.46
1:B1:187:ARG:O	1:B1:190:ARG:NE	2.45	0.46
1:b1:117:GLU:HG2	1:B2:96:TYR:CD2	2.51	0.46
1:b1:166:ARG:H	1:b1:422:ARG:NH2	2.14	0.46
1:b1:181:ASN:HA	1:b1:219:TRP:CZ3	2.50	0.46
1:B2:362:ILE:O	1:B2:366:LEU:HG	2.14	0.46
1:b2:166:ARG:H	1:b2:422:ARG:NH2	2.14	0.46
1:b2:270:GLN:O	1:b2:274:VAL:HG12	2.15	0.46
1:b3:270:GLN:HA	1:b3:273:ILE:HG12	1.97	0.46
1:B4:166:ARG:H	1:B4:422:ARG:NH2	2.14	0.46
1:B4:166:ARG:N	1:B4:418:GLU:OE2	2.49	0.46
1:B4:270:GLN:HA	1:B4:273:ILE:HG12	1.97	0.46
1:B4:285:GLU:CD	1:B4:286:LEU:H	2.23	0.46
1:B5:76:LEU:CD1	1:B5:368:VAL:HG11	2.46	0.46
1:B5:150:GLU:OE2	1:B5:246:ARG:NE	2.47	0.46
1:B5:369:SER:HB2	1:B5:371:GLU:OE1	2.16	0.46
1:b5:110:GLU:HG2	1:b5:425:VAL:HG12	1.96	0.46
1:b5:166:ARG:N	1:b5:418:GLU:OE2	2.49	0.46
2:C0:196:ASN:HA	2:C0:248:VAL:HG23	1.98	0.46
2:C0:308:TRP:CE3	2:G4:312:GLY:HA2	2.50	0.46
2:E0:212:LYS:O	2:E0:215:LYS:HG2	2.14	0.46
2:G1:163:THR:HB	2:G1:339:GLN:NE2	2.25	0.46
2:A2:54:VAL:HG21	2:A2:59:SER:HA	1.97	0.46
2:C2:50:MET:HB3	2:D2:258:VAL:CG2	2.42	0.46
2:D2:119:GLU:CB	2:D2:321:ILE:HG13	2.46	0.46
2:D2:138:GLY:HA2	2:D2:154:MET:HE2	1.98	0.46
2:E2:163:THR:HB	2:E2:339:GLN:NE2	2.25	0.46
2:A3:24:LEU:HA	2:A3:28:PHE:HB2	1.98	0.46
2:D3:163:THR:HB	2:D3:339:GLN:NE2	2.25	0.46
2:E3:56:PRO:HA	2:F3:79:LYS:HZ2	1.80	0.46
2:E3:306:LYS:HZ2	2:E3:308:TRP:CD1	2.33	0.46
2:A4:212:LYS:O	2:A4:215:LYS:HG2	2.14	0.46
2:G4:109:ARG:O	2:G4:113:MET:HG2	2.14	0.46
2:G4:139:LYS:HG3	2:G4:151:GLU:OE2	2.14	0.46
2:E4:24:LEU:HA	2:E4:28:PHE:HB2	1.98	0.46
2:E4:196:ASN:HA	2:E4:248:VAL:HG23	1.98	0.46
1:B1:181:ASN:HA	1:B1:219:TRP:CZ3	2.50	0.46
1:B1:252:TYR:C	1:B1:255:MET:HE1	2.40	0.46
1:b1:282:ILE:HB	1:b1:333:LEU:O	2.15	0.46
1:b1:375:ARG:O	1:b1:376:ASN:C	2.57	0.46
1:B2:252:TYR:C	1:B2:255:MET:HE1	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B2:285:GLU:CD	1:B2:286:LEU:H	2.23	0.46
1:B2:375:ARG:HB3	1:b2:364:ALA:HB2	1.98	0.46
1:b2:361:TYR:CD2	1:b2:362:ILE:HG13	2.51	0.46
1:B3:166:ARG:H	1:B3:422:ARG:NH2	2.14	0.46
1:B3:185:ASP:OD1	1:B3:185:ASP:N	2.47	0.46
1:B3:368:VAL:HG12	1:B3:396:PHE:CZ	2.46	0.46
1:B4:282:ILE:HB	1:B4:333:LEU:O	2.15	0.46
1:b4:240:VAL:N	1:b4:244:GLN:OE1	2.47	0.46
1:B5:265:GLN:HG3	1:b5:259:LYS:HZ1	1.80	0.46
1:b5:76:LEU:CD1	1:b5:368:VAL:HG11	2.46	0.46
1:b5:240:VAL:N	1:b5:244:GLN:OE1	2.47	0.46
1:b5:258:MET:O	1:b5:261:LEU:HG	2.14	0.46
1:b5:375:ARG:O	1:b5:376:ASN:C	2.57	0.46
2:G0:196:ASN:HA	2:G0:248:VAL:HG23	1.98	0.46
2:C0:54:VAL:HG21	2:C0:59:SER:HA	1.97	0.46
2:C0:285:TYR:HD2	2:C0:302:ALA:HA	1.81	0.46
2:F0:24:LEU:HA	2:F0:28:PHE:HB2	1.98	0.46
2:F0:80:PRO:HG2	2:F0:119:GLU:OE1	2.16	0.46
2:F0:138:GLY:HA2	2:F0:154:MET:HE2	1.97	0.46
2:A1:117:ARG:HA	2:A1:120:GLU:CD	2.41	0.46
2:G1:117:ARG:HA	2:G1:120:GLU:CD	2.41	0.46
2:G1:124:ALA:O	2:G1:128:GLU:HG2	2.15	0.46
2:C1:109:ARG:O	2:C1:113:MET:HG2	2.14	0.46
2:D1:77:TYR:CE2	2:D1:288:ILE:HA	2.49	0.46
2:E1:50:MET:SD	2:F1:121:LEU:HD12	2.56	0.46
2:F1:119:GLU:CB	2:F1:321:ILE:HG13	2.46	0.46
2:A2:117:ARG:HA	2:A2:120:GLU:CD	2.41	0.46
2:G2:196:ASN:HA	2:G2:248:VAL:HG23	1.98	0.46
2:E2:117:ARG:HA	2:E2:120:GLU:CD	2.41	0.46
2:F2:79:LYS:HB2	2:F2:320:MET:CE	2.45	0.46
2:F2:108:ARG:HA	2:F2:111:ILE:HG22	1.97	0.46
2:A3:79:LYS:HB2	2:A3:320:MET:CE	2.45	0.46
2:A3:195:VAL:HG21	2:A3:274:LEU:HB3	1.98	0.46
2:A3:220:THR:HG21	2:F3:217:LYS:CE	2.37	0.46
2:C3:119:GLU:CB	2:C3:321:ILE:HG13	2.46	0.46
2:C3:212:LYS:O	2:C3:215:LYS:HG2	2.14	0.46
2:D3:117:ARG:HA	2:D3:120:GLU:CD	2.41	0.46
2:D3:227:GLU:OE1	2:D3:227:GLU:N	2.44	0.46
2:F3:108:ARG:HA	2:F3:111:ILE:HG22	1.97	0.46
2:G4:227:GLU:O	2:G4:230:THR:OG1	2.26	0.46
2:C4:163:THR:HB	2:C4:339:GLN:NE2	2.25	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D4:138:GLY:HA2	2:D4:154:MET:HE2	1.97	0.46
1:B:166:ARG:N	1:B:418:GLU:OE2	2.49	0.46
1:B:211:TYR:C	1:B:215:MET:HE2	2.40	0.46
1:B:252:TYR:C	1:B:255:MET:HE1	2.40	0.46
1:B1:166:ARG:H	1:B1:422:ARG:NH2	2.14	0.46
1:B1:265:GLN:HG3	1:b1:259:LYS:HZ1	1.81	0.46
1:B1:361:TYR:CD2	1:B1:362:ILE:HG13	2.51	0.46
1:b1:212:PRO:HG3	1:B2:187:ARG:HA	1.98	0.46
1:B2:166:ARG:H	1:B2:422:ARG:NH2	2.14	0.46
1:B2:181:ASN:HA	1:B2:219:TRP:CZ3	2.50	0.46
1:b2:207:SER:HB2	1:b2:217:GLN:HB3	1.98	0.46
1:B3:252:TYR:C	1:B3:255:MET:HE1	2.40	0.46
1:b3:166:ARG:H	1:b3:422:ARG:NH2	2.14	0.46
1:b3:166:ARG:N	1:b3:418:GLU:OE2	2.49	0.46
1:b3:181:ASN:HA	1:b3:219:TRP:CZ3	2.50	0.46
1:B4:369:SER:HB2	1:B4:371:GLU:OE1	2.16	0.46
1:b4:370:TYR:C	1:b4:372:GLN:N	2.71	0.46
2:A0:84:VAL:HG21	2:A0:112:ILE:HG22	1.96	0.46
2:A0:163:THR:HB	2:A0:339:GLN:NE2	2.25	0.46
2:G0:138:GLY:HA2	2:G0:154:MET:HE2	1.98	0.46
2:C0:24:LEU:HA	2:C0:28:PHE:HB2	1.98	0.46
2:C0:195:VAL:HG21	2:C0:274:LEU:HB3	1.98	0.46
2:D0:117:ARG:HA	2:D0:120:GLU:CD	2.41	0.46
2:A1:91:ARG:HH22	2:F1:31:SER:C	2.19	0.46
2:C1:50:MET:HB3	2:D1:258:VAL:CG2	2.42	0.46
2:C1:80:PRO:HG2	2:C1:119:GLU:OE1	2.16	0.46
2:C1:306:LYS:HZ2	2:C1:308:TRP:CD1	2.34	0.46
2:D1:24:LEU:HA	2:D1:28:PHE:HB2	1.98	0.46
2:D1:80:PRO:HG2	2:D1:119:GLU:OE1	2.16	0.46
2:E1:79:LYS:HB2	2:E1:320:MET:CE	2.45	0.46
2:E1:124:ALA:O	2:E1:128:GLU:HG2	2.15	0.46
2:A2:75:PRO:HA	2:A2:326:LEU:HB2	1.96	0.46
2:G2:227:GLU:OE1	2:G2:227:GLU:N	2.44	0.46
2:C2:124:ALA:O	2:C2:128:GLU:HG2	2.15	0.46
2:E2:124:ALA:O	2:E2:128:GLU:HG2	2.15	0.46
2:F2:227:GLU:OE1	2:F2:227:GLU:N	2.44	0.46
2:D3:54:VAL:HG21	2:D3:59:SER:HA	1.97	0.46
2:D3:119:GLU:CB	2:D3:321:ILE:HG13	2.46	0.46
2:F3:217:LYS:HD3	2:F3:245:TYR:CZ	2.51	0.46
2:A4:105:ALA:O	2:A4:108:ARG:HG2	2.16	0.46
2:A4:108:ARG:HA	2:A4:111:ILE:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:215:LYS:HE2	2:A4:215:LYS:HB3	1.79	0.46
2:A4:220:THR:HG21	2:F4:217:LYS:CE	2.37	0.46
2:C4:80:PRO:HG2	2:C4:119:GLU:OE1	2.16	0.46
2:C4:212:LYS:O	2:C4:215:LYS:HG2	2.14	0.46
2:C4:217:LYS:HD3	2:C4:245:TYR:CZ	2.51	0.46
2:C4:285:TYR:HD2	2:C4:302:ALA:HA	1.81	0.46
2:F4:119:GLU:CB	2:F4:321:ILE:HG13	2.46	0.46
1:B:369:SER:HB2	1:B:371:GLU:OE1	2.15	0.46
1:B1:270:GLN:HA	1:B1:273:ILE:HG12	1.97	0.46
1:b1:110:GLU:HG2	1:b1:425:VAL:HG12	1.96	0.46
1:B2:207:SER:HB2	1:B2:217:GLN:HB3	1.98	0.46
1:b2:166:ARG:N	1:b2:418:GLU:OE2	2.49	0.46
1:b2:181:ASN:HA	1:b2:219:TRP:CZ3	2.50	0.46
1:b2:285:GLU:CD	1:b2:286:LEU:H	2.23	0.46
1:b2:369:SER:HB2	1:b2:371:GLU:OE1	2.15	0.46
1:B3:166:ARG:N	1:B3:418:GLU:OE2	2.49	0.46
1:B3:270:GLN:HA	1:B3:273:ILE:HG12	1.97	0.46
1:B3:361:TYR:CD2	1:B3:362:ILE:HG13	2.51	0.46
1:b3:111:VAL:HG12	1:b3:425:VAL:HG11	1.97	0.46
1:b3:187:ARG:O	1:b3:190:ARG:NE	2.45	0.46
1:B4:212:PRO:HG3	1:b4:187:ARG:HA	1.98	0.46
1:b4:76:LEU:CD1	1:b4:368:VAL:HG11	2.46	0.46
1:b4:166:ARG:H	1:b4:422:ARG:NH2	2.14	0.46
1:b4:386:ARG:NH1	1:b4:387:ALA:HB2	2.31	0.46
1:B5:282:ILE:HB	1:B5:333:LEU:O	2.15	0.46
2:A0:217:LYS:HD3	2:A0:245:TYR:CZ	2.51	0.46
2:A0:227:GLU:O	2:A0:230:THR:OG1	2.26	0.46
2:D0:80:PRO:HG2	2:D0:119:GLU:OE1	2.16	0.46
2:F0:108:ARG:HA	2:F0:111:ILE:HG22	1.97	0.46
2:F0:117:ARG:HA	2:F0:120:GLU:CD	2.41	0.46
2:A1:84:VAL:HG21	2:A1:112:ILE:HG22	1.96	0.46
2:G1:217:LYS:HD3	2:G1:245:TYR:CZ	2.51	0.46
2:C1:119:GLU:CB	2:C1:321:ILE:HG13	2.46	0.46
2:C1:124:ALA:O	2:C1:128:GLU:HG2	2.15	0.46
2:D1:196:ASN:HA	2:D1:248:VAL:HG23	1.98	0.46
2:E1:105:ALA:O	2:E1:108:ARG:HG2	2.16	0.46
2:F1:108:ARG:HA	2:F1:111:ILE:HG22	1.97	0.46
2:A2:217:LYS:HD3	2:A2:245:TYR:CZ	2.51	0.46
2:C2:24:LEU:HA	2:C2:28:PHE:HB2	1.98	0.46
2:C2:195:VAL:HG21	2:C2:274:LEU:HB3	1.98	0.46
2:D2:105:ALA:O	2:D2:108:ARG:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D2:124:ALA:O	2:D2:128:GLU:HG2	2.15	0.46
2:D2:215:LYS:HE2	2:D2:215:LYS:HB3	1.79	0.46
2:D2:285:TYR:HD2	2:D2:302:ALA:HA	1.81	0.46
2:E2:24:LEU:HA	2:E2:28:PHE:HB2	1.98	0.46
2:E2:105:ALA:O	2:E2:108:ARG:HG2	2.16	0.46
2:F2:80:PRO:HG2	2:F2:119:GLU:OE1	2.16	0.46
2:F2:117:ARG:HA	2:F2:120:GLU:CD	2.41	0.46
2:A3:196:ASN:HA	2:A3:248:VAL:HG23	1.98	0.46
2:C3:77:TYR:CE2	2:C3:288:ILE:HA	2.49	0.46
2:C3:138:GLY:HA2	2:C3:154:MET:HE2	1.98	0.46
2:D3:105:ALA:O	2:D3:108:ARG:HG2	2.16	0.46
2:E3:77:TYR:CE2	2:E3:288:ILE:HA	2.48	0.46
2:A4:117:ARG:HA	2:A4:120:GLU:CD	2.41	0.46
2:A4:193:GLY:HA3	2:G4:263:LYS:HE3	1.98	0.46
2:C4:119:GLU:CB	2:C4:321:ILE:HG13	2.46	0.46
2:D4:217:LYS:HD3	2:D4:245:TYR:CZ	2.51	0.46
2:E4:138:GLY:HA2	2:E4:154:MET:HE2	1.98	0.46
2:F4:105:ALA:O	2:F4:108:ARG:HG2	2.16	0.46
2:F4:108:ARG:HA	2:F4:111:ILE:HG22	1.97	0.46
1:B:76:LEU:CD1	1:B:368:VAL:HG11	2.46	0.46
1:B:162:SER:OG	1:B:163:ARG:NH2	2.49	0.46
1:B:181:ASN:ND2	2:G1:100:ASN:HA	2.30	0.46
1:b:166:ARG:H	1:b:422:ARG:NH2	2.14	0.46
1:b:363:ALA:HB2	1:b:370:TYR:CG	2.51	0.46
1:b1:36:ARG:HD2	2:G0:295:ARG:CG	2.18	0.46
1:b1:363:ALA:HB2	1:b1:370:TYR:CG	2.51	0.46
1:B3:369:SER:HB2	1:B3:371:GLU:OE1	2.16	0.46
1:B4:361:TYR:CD2	1:B4:362:ILE:HG13	2.51	0.46
1:b4:78:GLN:NE2	1:b4:139:ARG:HG2	2.31	0.46
1:b4:211:TYR:C	1:b4:215:MET:HE2	2.40	0.46
1:b4:270:GLN:HA	1:b4:273:ILE:HG12	1.98	0.46
1:B5:270:GLN:HA	1:B5:273:ILE:HG12	1.97	0.46
1:B5:368:VAL:HG12	1:B5:396:PHE:CZ	2.46	0.46
1:b5:264:LEU:HA	1:b5:267:THR:HG22	1.97	0.46
2:A0:105:ALA:O	2:A0:108:ARG:HG2	2.16	0.46
2:A0:124:ALA:O	2:A0:128:GLU:HG2	2.15	0.46
2:D0:77:TYR:CE2	2:D0:288:ILE:HA	2.49	0.46
2:G1:196:ASN:HA	2:G1:248:VAL:HG23	1.98	0.46
2:D1:105:ALA:O	2:D1:108:ARG:HG2	2.16	0.46
2:D1:195:VAL:HG21	2:D1:274:LEU:HB3	1.98	0.46
2:E1:64:ARG:H	2:E1:66:ARG:NH1	2.11	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E1:117:ARG:HA	2:E1:120:GLU:CD	2.41	0.46
2:F1:195:VAL:HG21	2:F1:274:LEU:HB3	1.98	0.46
2:A2:91:ARG:HH22	2:F2:31:SER:C	2.19	0.46
2:G2:124:ALA:O	2:G2:128:GLU:HG2	2.15	0.46
2:G2:138:GLY:HA2	2:G2:154:MET:HE2	1.98	0.46
2:C2:54:VAL:HG21	2:C2:59:SER:HA	1.97	0.46
2:C2:119:GLU:CB	2:C2:321:ILE:HG13	2.46	0.46
2:D2:80:PRO:HG2	2:D2:119:GLU:OE1	2.16	0.46
2:E2:119:GLU:CB	2:E2:321:ILE:HG13	2.46	0.46
2:E2:217:LYS:HD3	2:E2:245:TYR:CZ	2.51	0.46
2:F2:195:VAL:HG21	2:F2:274:LEU:HB3	1.98	0.46
2:A3:117:ARG:HA	2:A3:120:GLU:CD	2.41	0.46
2:A3:276:ASN:HB2	2:G3:263:LYS:HZ3	1.80	0.46
2:G3:79:LYS:HB2	2:G3:320:MET:CE	2.45	0.46
2:G3:285:TYR:HD2	2:G3:302:ALA:HA	1.81	0.46
2:C3:24:LEU:HA	2:C3:28:PHE:HB2	1.98	0.46
2:C3:217:LYS:HD3	2:C3:245:TYR:CZ	2.51	0.46
2:D3:80:PRO:HG2	2:D3:119:GLU:OE1	2.16	0.46
2:D3:196:ASN:HA	2:D3:248:VAL:HG23	1.98	0.46
2:D3:285:TYR:HD2	2:D3:302:ALA:HA	1.81	0.46
2:E3:105:ALA:O	2:E3:108:ARG:HG2	2.16	0.46
2:E3:108:ARG:HA	2:E3:111:ILE:HG22	1.97	0.46
2:A4:80:PRO:HG2	2:A4:119:GLU:OE1	2.16	0.46
2:A4:285:TYR:HD2	2:A4:302:ALA:HA	1.81	0.46
2:G4:117:ARG:HA	2:G4:120:GLU:CD	2.41	0.46
2:G4:217:LYS:HD3	2:G4:245:TYR:CZ	2.51	0.46
2:E4:108:ARG:HA	2:E4:111:ILE:HG22	1.97	0.46
2:F4:75:PRO:HA	2:F4:326:LEU:HB2	1.96	0.46
2:F4:80:PRO:HG2	2:F4:119:GLU:OE1	2.16	0.46
1:B:461:VAL:HG11	1:b:462:GLN:OE1	2.16	0.46
1:B:498:MET:HA	1:B:501:ARG:HE	1.80	0.46
1:b1:207:SER:HB2	1:b1:217:GLN:HB3	1.98	0.46
1:B2:166:ARG:N	1:B2:418:GLU:OE2	2.49	0.46
1:B2:386:ARG:NH1	1:B2:387:ALA:HB2	2.31	0.46
1:b2:78:GLN:NE2	1:b2:139:ARG:HG2	2.31	0.46
1:b2:363:ALA:HB2	1:b2:370:TYR:CG	2.51	0.46
1:B3:181:ASN:HA	1:B3:219:TRP:CZ3	2.50	0.46
1:B3:207:SER:HB2	1:B3:217:GLN:HB3	1.98	0.46
1:B3:375:ARG:O	1:B3:376:ASN:C	2.57	0.46
1:B3:435:PHE:O	1:B3:439:ARG:HG3	2.17	0.46
1:B4:386:ARG:NH1	1:B4:387:ALA:HB2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b5:361:TYR:CD2	1:b5:362:ILE:HG13	2.51	0.46
2:A0:193:GLY:HA3	2:G0:263:LYS:HE3	1.98	0.46
2:G0:54:VAL:HG21	2:G0:59:SER:HA	1.97	0.46
2:G0:79:LYS:HB2	2:G0:320:MET:CE	2.45	0.46
2:D0:195:VAL:HG21	2:D0:274:LEU:HB3	1.98	0.46
2:E0:195:VAL:HG21	2:E0:274:LEU:HB3	1.98	0.46
2:E0:306:LYS:HZ2	2:E0:308:TRP:CD1	2.34	0.46
2:F0:119:GLU:CB	2:F0:321:ILE:HG13	2.46	0.46
2:F0:196:ASN:HA	2:F0:248:VAL:HG23	1.98	0.46
2:F0:217:LYS:HD3	2:F0:245:TYR:CZ	2.51	0.46
2:A1:119:GLU:CB	2:A1:321:ILE:HG13	2.46	0.46
2:C1:34:PHE:HB3	2:C1:36:THR:HG22	1.98	0.46
2:C1:138:GLY:HA2	2:C1:154:MET:HE2	1.98	0.46
2:C1:195:VAL:HG21	2:C1:274:LEU:HB3	1.98	0.46
2:C1:285:TYR:HD2	2:C1:302:ALA:HA	1.81	0.46
2:D1:34:PHE:HB3	2:D1:36:THR:HG22	1.98	0.46
2:A2:138:GLY:HA2	2:A2:154:MET:HE2	1.98	0.46
2:C2:79:LYS:HB2	2:C2:320:MET:CE	2.45	0.46
2:E2:64:ARG:H	2:E2:66:ARG:NH1	2.11	0.46
2:F2:196:ASN:HA	2:F2:248:VAL:HG23	1.98	0.46
2:F2:285:TYR:HD2	2:F2:302:ALA:HA	1.81	0.46
2:A3:119:GLU:CB	2:A3:321:ILE:HG13	2.46	0.46
2:A3:227:GLU:OE1	2:A3:227:GLU:N	2.44	0.46
2:G3:34:PHE:HB3	2:G3:36:THR:HG22	1.98	0.46
2:G3:105:ALA:O	2:G3:108:ARG:HG2	2.16	0.46
2:G3:195:VAL:HG21	2:G3:274:LEU:HB3	1.98	0.46
2:C3:79:LYS:HB2	2:C3:320:MET:CE	2.45	0.46
2:D3:124:ALA:O	2:D3:128:GLU:HG2	2.15	0.46
2:E3:34:PHE:HB3	2:E3:36:THR:HG22	1.98	0.46
2:E3:124:ALA:O	2:E3:128:GLU:HG2	2.15	0.46
2:E3:217:LYS:HD3	2:E3:245:TYR:CZ	2.51	0.46
2:F3:14:GLU:HB2	2:F3:16:LYS:HZ1	1.80	0.46
2:A4:34:PHE:HB3	2:A4:36:THR:HG22	1.98	0.46
2:C4:195:VAL:HG21	2:C4:274:LEU:HB3	1.98	0.46
2:D4:105:ALA:O	2:D4:108:ARG:HG2	2.16	0.46
2:E4:50:MET:SD	2:F4:121:LEU:HD12	2.56	0.46
2:F4:14:GLU:HB2	2:F4:16:LYS:HZ3	1.80	0.46
1:b:111:VAL:HG12	1:b:425:VAL:HG11	1.97	0.45
1:B1:264:LEU:HA	1:B1:267:THR:HG22	1.97	0.45
1:b1:76:LEU:HD12	1:b1:77:HIS:N	2.32	0.45
1:b1:264:LEU:HA	1:b1:267:THR:HG22	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b1:374:SER:HB2	1:B2:360:ARG:O	2.16	0.45
1:b1:386:ARG:NH1	1:b1:387:ALA:HB2	2.31	0.45
1:B2:117:GLU:HG2	1:b2:96:TYR:CD2	2.51	0.45
1:b2:117:GLU:HG2	1:B3:96:TYR:CD2	2.50	0.45
1:b2:170:ARG:NH2	1:B3:198:SER:O	2.37	0.45
1:B3:76:LEU:HD12	1:B3:77:HIS:N	2.32	0.45
1:b3:386:ARG:NH1	1:b3:387:ALA:HB2	2.31	0.45
1:B4:435:PHE:O	1:B4:439:ARG:HG3	2.16	0.45
1:b4:162:SER:OG	1:b4:163:ARG:NH2	2.49	0.45
1:B5:78:GLN:NE2	1:B5:139:ARG:HG2	2.31	0.45
1:B5:386:ARG:NH1	1:B5:387:ALA:HB2	2.31	0.45
1:b5:498:MET:HA	1:b5:501:ARG:HE	1.80	0.45
2:A0:80:PRO:HG2	2:A0:119:GLU:OE1	2.16	0.45
2:A0:285:TYR:HD2	2:A0:302:ALA:HA	1.81	0.45
2:G0:64:ARG:H	2:G0:66:ARG:NH1	2.11	0.45
2:G0:105:ALA:O	2:G0:108:ARG:HG2	2.16	0.45
2:C0:117:ARG:HA	2:C0:120:GLU:CD	2.41	0.45
2:C0:138:GLY:HA2	2:C0:154:MET:HE2	1.98	0.45
2:A1:138:GLY:HA2	2:A1:154:MET:HE2	1.98	0.45
2:A1:196:ASN:HA	2:A1:248:VAL:HG23	1.98	0.45
2:G1:24:LEU:HA	2:G1:28:PHE:HB2	1.98	0.45
2:G1:105:ALA:O	2:G1:108:ARG:HG2	2.16	0.45
2:D1:64:ARG:H	2:D1:66:ARG:NH1	2.11	0.45
2:F1:80:PRO:HG2	2:F1:119:GLU:OE1	2.16	0.45
2:F1:163:THR:HB	2:F1:339:GLN:NE2	2.25	0.45
2:A2:124:ALA:O	2:A2:128:GLU:HG2	2.15	0.45
2:A2:195:VAL:HG21	2:A2:274:LEU:HB3	1.98	0.45
2:C2:217:LYS:HD3	2:C2:245:TYR:CZ	2.51	0.45
2:E2:108:ARG:HA	2:E2:111:ILE:HG22	1.97	0.45
2:G3:24:LEU:HA	2:G3:28:PHE:HB2	1.98	0.45
2:C3:195:VAL:HG21	2:C3:274:LEU:HB3	1.98	0.45
2:D3:62:VAL:HA	2:E3:318:PHE:CZ	2.52	0.45
2:F3:34:PHE:HB3	2:F3:36:THR:HG22	1.98	0.45
2:A4:24:LEU:HA	2:A4:28:PHE:HB2	1.98	0.45
2:A4:195:VAL:HG21	2:A4:274:LEU:HB3	1.98	0.45
2:E4:229:GLU:C	2:E4:233:LYS:HZ3	2.24	0.45
2:F4:138:GLY:HA2	2:F4:154:MET:HE2	1.98	0.45
1:B:76:LEU:HD12	1:B:77:HIS:N	2.31	0.45
1:B:166:ARG:H	1:B:422:ARG:NH2	2.14	0.45
1:B:259:LYS:NZ	1:b5:265:GLN:HG3	2.31	0.45
1:B:361:TYR:CD2	1:B:362:ILE:HG13	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:375:ARG:HB3	1:b:364:ALA:HB2	1.97	0.45
1:b:166:ARG:N	1:b:418:GLU:OE2	2.49	0.45
1:b:361:TYR:CD2	1:b:362:ILE:HG13	2.51	0.45
1:B1:150:GLU:OE2	1:B1:246:ARG:NE	2.47	0.45
1:B2:368:VAL:HG12	1:B2:396:PHE:CZ	2.46	0.45
1:B2:435:PHE:O	1:B2:439:ARG:HG3	2.17	0.45
1:b2:162:SER:OG	1:b2:163:ARG:NH2	2.49	0.45
1:b2:386:ARG:NH1	1:b2:387:ALA:HB2	2.32	0.45
1:B3:78:GLN:NE2	1:B3:139:ARG:HG2	2.31	0.45
1:B3:386:ARG:NH1	1:B3:387:ALA:HB2	2.31	0.45
1:B4:76:LEU:CD1	1:B4:368:VAL:HG11	2.46	0.45
1:b4:76:LEU:HD12	1:b4:77:HIS:N	2.31	0.45
1:B5:76:LEU:O	1:B5:80:HIS:ND1	2.41	0.45
1:B5:117:GLU:HG2	1:b5:96:TYR:CD2	2.51	0.45
1:B5:166:ARG:H	1:B5:422:ARG:NH2	2.14	0.45
1:b5:363:ALA:HB2	1:b5:370:TYR:CG	2.51	0.45
2:A0:308:TRP:HZ3	2:A0:310:THR:HG1	1.64	0.45
2:G0:84:VAL:HG21	2:G0:112:ILE:HG22	1.96	0.45
2:C0:77:TYR:CE2	2:C0:288:ILE:HA	2.48	0.45
2:D0:138:GLY:HA2	2:D0:154:MET:HE2	1.97	0.45
2:E0:34:PHE:HB3	2:E0:36:THR:HG22	1.98	0.45
2:E0:135:VAL:HG12	2:E0:273:VAL:HG11	1.99	0.45
2:G1:75:PRO:HA	2:G1:326:LEU:HB2	1.96	0.45
2:C1:196:ASN:HA	2:C1:248:VAL:HG23	1.98	0.45
2:D1:77:TYR:CD2	2:D1:324:ALA:HB2	2.49	0.45
2:D1:108:ARG:HA	2:D1:111:ILE:HG22	1.97	0.45
2:G2:229:GLU:C	2:G2:233:LYS:HZ3	2.24	0.45
2:C2:196:ASN:HA	2:C2:248:VAL:HG23	1.98	0.45
2:F2:119:GLU:CB	2:F2:321:ILE:HG13	2.46	0.45
2:A3:77:TYR:CE2	2:A3:288:ILE:HA	2.49	0.45
2:G3:196:ASN:HA	2:G3:248:VAL:HG23	1.98	0.45
2:C3:285:TYR:HD2	2:C3:302:ALA:HA	1.81	0.45
2:D3:217:LYS:HD3	2:D3:245:TYR:CZ	2.51	0.45
2:E3:196:ASN:HA	2:E3:248:VAL:HG23	1.98	0.45
2:G4:79:LYS:HB2	2:G4:320:MET:CE	2.45	0.45
2:C4:196:ASN:HA	2:C4:248:VAL:HG23	1.98	0.45
2:D4:34:PHE:HB3	2:D4:36:THR:HG22	1.99	0.45
2:D4:54:VAL:HG21	2:D4:59:SER:HA	1.97	0.45
2:D4:79:LYS:HB2	2:D4:320:MET:CE	2.45	0.45
2:D4:80:PRO:HG2	2:D4:119:GLU:OE1	2.16	0.45
2:F4:135:VAL:HG12	2:F4:273:VAL:HG11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:259:LYS:HZ1	1:b5:265:GLN:HG3	1.80	0.45
1:B:363:ALA:HB2	1:B:370:TYR:CG	2.51	0.45
1:b:270:GLN:HA	1:b:273:ILE:HG12	1.97	0.45
1:b:375:ARG:HB3	1:B1:364:ALA:HB2	1.97	0.45
1:B1:207:SER:HB2	1:B1:217:GLN:HB3	1.98	0.45
1:B2:111:VAL:HG12	1:B2:425:VAL:HG11	1.97	0.45
1:B2:270:GLN:HA	1:B2:273:ILE:HG12	1.97	0.45
1:B3:162:SER:OG	1:B3:163:ARG:NH2	2.49	0.45
1:B3:461:VAL:HG11	1:b3:462:GLN:OE1	2.16	0.45
1:B3:461:VAL:HG21	1:b3:462:GLN:NE2	2.30	0.45
1:b3:363:ALA:HB2	1:b3:370:TYR:CG	2.51	0.45
1:b3:369:SER:HB2	1:b3:371:GLU:OE1	2.15	0.45
1:b3:374:SER:OG	1:B4:360:ARG:CZ	2.64	0.45
1:B4:78:GLN:NE2	1:B4:139:ARG:HG2	2.31	0.45
1:B4:162:SER:OG	1:B4:163:ARG:NH2	2.49	0.45
1:b4:374:SER:HB2	1:B5:360:ARG:O	2.15	0.45
1:B5:162:SER:OG	1:B5:163:ARG:NH2	2.49	0.45
1:B5:187:ARG:O	1:B5:190:ARG:NE	2.45	0.45
1:B5:363:ALA:HB2	1:B5:370:TYR:CG	2.51	0.45
1:b5:270:GLN:HA	1:b5:273:ILE:HG12	1.97	0.45
2:A0:135:VAL:HG12	2:A0:273:VAL:HG11	1.99	0.45
2:E0:24:LEU:HA	2:E0:28:PHE:HB2	1.98	0.45
2:E0:117:ARG:HA	2:E0:120:GLU:CD	2.41	0.45
2:F0:79:LYS:HB2	2:F0:320:MET:CE	2.45	0.45
2:A1:54:VAL:HG21	2:A1:59:SER:HA	1.97	0.45
2:A1:282:LEU:O	2:A1:327:MET:HA	2.17	0.45
2:G1:79:LYS:HB2	2:G1:320:MET:CE	2.45	0.45
2:G1:119:GLU:CB	2:G1:321:ILE:HG13	2.46	0.45
2:G1:285:TYR:HD2	2:G1:302:ALA:HA	1.81	0.45
2:C1:282:LEU:O	2:C1:327:MET:HA	2.17	0.45
2:D1:117:ARG:HA	2:D1:120:GLU:CD	2.41	0.45
2:A2:119:GLU:CB	2:A2:321:ILE:HG13	2.46	0.45
2:C2:163:THR:HB	2:C2:339:GLN:NE2	2.25	0.45
2:C2:227:GLU:OE1	2:C2:227:GLU:N	2.44	0.45
2:D2:77:TYR:CD2	2:D2:324:ALA:HB2	2.49	0.45
2:E2:75:PRO:HA	2:E2:326:LEU:HB2	1.96	0.45
2:A3:80:PRO:HG2	2:A3:119:GLU:OE1	2.16	0.45
2:A3:105:ALA:O	2:A3:108:ARG:HG2	2.16	0.45
2:A3:217:LYS:HD3	2:A3:245:TYR:CZ	2.51	0.45
2:C3:117:ARG:HA	2:C3:120:GLU:CD	2.41	0.45
2:C3:135:VAL:HG12	2:C3:273:VAL:HG11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E3:64:ARG:H	2:E3:66:ARG:NH1	2.11	0.45
2:F3:79:LYS:HB2	2:F3:320:MET:CE	2.45	0.45
2:A4:77:TYR:CE2	2:A4:288:ILE:HA	2.49	0.45
2:G4:308:TRP:HZ3	2:G4:310:THR:OG1	2.00	0.45
2:E4:34:PHE:HB3	2:E4:36:THR:HG22	1.98	0.45
1:B:264:LEU:HA	1:B:267:THR:HG22	1.97	0.45
1:b:78:GLN:NE2	1:b:139:ARG:HG2	2.31	0.45
1:b:162:SER:OG	1:b:163:ARG:NH2	2.49	0.45
1:B1:76:LEU:HD12	1:B1:77:HIS:N	2.31	0.45
1:B1:117:GLU:HG2	1:b1:96:TYR:CD2	2.51	0.45
1:b1:185:ASP:OD1	1:b1:185:ASP:N	2.47	0.45
1:B2:76:LEU:HD12	1:B2:77:HIS:N	2.31	0.45
1:B2:162:SER:OG	1:B2:163:ARG:NH2	2.49	0.45
1:B2:185:ASP:N	1:B2:185:ASP:OD1	2.47	0.45
1:B2:374:SER:HB2	1:b2:360:ARG:O	2.16	0.45
1:b2:76:LEU:HD12	1:b2:77:HIS:N	2.31	0.45
1:b2:270:GLN:HA	1:b2:273:ILE:HG12	1.97	0.45
1:B3:363:ALA:HB2	1:B3:370:TYR:CG	2.51	0.45
1:b3:76:LEU:HD12	1:b3:77:HIS:N	2.31	0.45
1:b3:375:ARG:O	1:b3:376:ASN:C	2.57	0.45
1:B4:363:ALA:HB2	1:B4:370:TYR:CG	2.51	0.45
1:b4:361:TYR:CD2	1:b4:362:ILE:HG13	2.51	0.45
1:b4:435:PHE:O	1:b4:439:ARG:HG3	2.17	0.45
1:B5:498:MET:HA	1:B5:501:ARG:HE	1.80	0.45
1:b5:162:SER:OG	1:b5:163:ARG:NH2	2.49	0.45
1:b5:435:PHE:O	1:b5:439:ARG:HG3	2.17	0.45
2:G0:80:PRO:HG2	2:G0:119:GLU:OE1	2.16	0.45
2:G0:217:LYS:HD3	2:G0:245:TYR:CZ	2.51	0.45
2:E0:79:LYS:HB2	2:E0:320:MET:CE	2.45	0.45
2:E0:105:ALA:O	2:E0:108:ARG:HG2	2.16	0.45
2:E0:163:THR:HB	2:E0:339:GLN:NE2	2.25	0.45
2:E0:215:LYS:HE2	2:E0:215:LYS:HB3	1.79	0.45
2:E0:308:TRP:HZ3	2:E0:310:THR:OG1	2.00	0.45
2:A1:80:PRO:HG2	2:A1:119:GLU:OE1	2.16	0.45
2:A1:163:THR:HB	2:A1:339:GLN:NE2	2.26	0.45
2:A1:264:LYS:HD2	2:A1:265:ASN:O	2.17	0.45
2:G1:308:TRP:HZ3	2:G1:310:THR:OG1	2.00	0.45
2:C1:105:ALA:O	2:C1:108:ARG:HG2	2.16	0.45
2:C1:217:LYS:HD3	2:C1:245:TYR:CZ	2.51	0.45
2:E1:195:VAL:HG21	2:E1:274:LEU:HB3	1.98	0.45
2:E1:217:LYS:HD3	2:E1:245:TYR:CZ	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F1:79:LYS:HB2	2:F1:320:MET:CE	2.45	0.45
2:F1:217:LYS:HD3	2:F1:245:TYR:CZ	2.51	0.45
2:A2:24:LEU:HA	2:A2:28:PHE:HB2	1.98	0.45
2:A2:105:ALA:O	2:A2:108:ARG:HG2	2.16	0.45
2:A2:196:ASN:HA	2:A2:248:VAL:HG23	1.98	0.45
2:G2:80:PRO:HG2	2:G2:119:GLU:OE1	2.16	0.45
2:G2:117:ARG:HA	2:G2:120:GLU:CD	2.41	0.45
2:G2:308:TRP:HZ3	2:G2:310:THR:OG1	2.00	0.45
2:C2:80:PRO:HG2	2:C2:119:GLU:OE1	2.16	0.45
2:C2:117:ARG:HA	2:C2:120:GLU:CD	2.41	0.45
2:D2:62:VAL:HA	2:E2:318:PHE:CZ	2.52	0.45
2:E2:80:PRO:HG2	2:E2:119:GLU:OE1	2.16	0.45
2:E2:264:LYS:HD2	2:E2:265:ASN:O	2.17	0.45
2:F2:163:THR:HB	2:F2:339:GLN:NE2	2.25	0.45
2:A3:163:THR:HB	2:A3:339:GLN:NE2	2.25	0.45
2:G3:217:LYS:HD3	2:G3:245:TYR:CZ	2.51	0.45
2:C3:49:ASN:ND2	2:D3:260:ASN:O	2.50	0.45
2:C3:54:VAL:HG21	2:C3:59:SER:HA	1.97	0.45
2:D3:229:GLU:C	2:D3:233:LYS:HZ3	2.24	0.45
2:E3:117:ARG:HA	2:E3:120:GLU:CD	2.41	0.45
2:E3:264:LYS:HD2	2:E3:265:ASN:O	2.17	0.45
2:E3:282:LEU:O	2:E3:327:MET:HA	2.17	0.45
2:F3:105:ALA:O	2:F3:108:ARG:HG2	2.16	0.45
2:C4:34:PHE:HB3	2:C4:36:THR:HG22	1.98	0.45
2:C4:79:LYS:HB2	2:C4:320:MET:CE	2.45	0.45
2:E4:217:LYS:HD3	2:E4:245:TYR:CZ	2.51	0.45
1:B:187:ARG:O	1:B:190:ARG:NE	2.45	0.45
1:b:76:LEU:CD1	1:b:368:VAL:HG11	2.46	0.45
1:b:264:LEU:HA	1:b:267:THR:HG22	1.97	0.45
1:B1:78:GLN:NE2	1:B1:139:ARG:HG2	2.31	0.45
1:B1:375:ARG:HB3	1:b1:364:ALA:HB2	1.98	0.45
1:B1:435:PHE:O	1:B1:439:ARG:HG3	2.17	0.45
1:b1:162:SER:OG	1:b1:163:ARG:NH2	2.49	0.45
1:b1:166:ARG:N	1:b1:418:GLU:OE2	2.49	0.45
1:b4:363:ALA:HB2	1:b4:370:TYR:CG	2.51	0.45
1:B5:111:VAL:HG12	1:B5:425:VAL:HG11	1.97	0.45
1:b5:78:GLN:NE2	1:b5:139:ARG:HG2	2.31	0.45
1:b5:166:ARG:H	1:b5:422:ARG:NH2	2.14	0.45
2:A0:117:ARG:HA	2:A0:120:GLU:CD	2.41	0.45
2:G0:282:LEU:O	2:G0:327:MET:HA	2.17	0.45
2:G0:308:TRP:HZ3	2:G0:310:THR:OG1	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C0:50:MET:HB3	2:D0:258:VAL:CG2	2.42	0.45
2:C0:105:ALA:O	2:C0:108:ARG:HG2	2.16	0.45
2:C0:217:LYS:HD3	2:C0:245:TYR:CZ	2.51	0.45
2:D0:54:VAL:HG21	2:D0:59:SER:HA	1.97	0.45
2:D0:135:VAL:HG12	2:D0:273:VAL:HG11	1.99	0.45
2:D0:217:LYS:HD3	2:D0:245:TYR:CZ	2.51	0.45
2:D0:227:GLU:OE1	2:D0:227:GLU:N	2.44	0.45
2:E0:196:ASN:HA	2:E0:248:VAL:HG23	1.98	0.45
2:F0:77:TYR:CE2	2:F0:288:ILE:HA	2.48	0.45
2:F0:105:ALA:O	2:F0:108:ARG:HG2	2.16	0.45
2:A1:105:ALA:O	2:A1:108:ARG:HG2	2.16	0.45
2:A1:221:ARG:HH21	2:F1:246:GLY:CA	2.30	0.45
2:G1:34:PHE:HB3	2:G1:36:THR:HG22	1.98	0.45
2:C1:117:ARG:HA	2:C1:120:GLU:CD	2.41	0.45
2:E1:24:LEU:HA	2:E1:28:PHE:HB2	1.98	0.45
2:E1:138:GLY:HA2	2:E1:154:MET:HE2	1.97	0.45
2:A2:135:VAL:HG12	2:A2:273:VAL:HG11	1.99	0.45
2:G2:217:LYS:HD3	2:G2:245:TYR:CZ	2.51	0.45
2:D2:34:PHE:HB3	2:D2:36:THR:HG22	1.98	0.45
2:F2:217:LYS:HD3	2:F2:245:TYR:CZ	2.51	0.45
2:F2:264:LYS:HD2	2:F2:265:ASN:O	2.17	0.45
2:A3:308:TRP:HZ3	2:A3:310:THR:OG1	2.00	0.45
2:G3:308:TRP:HZ3	2:G3:310:THR:OG1	2.00	0.45
2:C3:163:THR:HB	2:C3:339:GLN:NE2	2.25	0.45
2:D3:24:LEU:HA	2:D3:28:PHE:HB2	1.98	0.45
2:E3:195:VAL:HG21	2:E3:274:LEU:HB3	1.98	0.45
2:A4:217:LYS:HD3	2:A4:245:TYR:CZ	2.51	0.45
2:A4:227:GLU:OE1	2:A4:227:GLU:N	2.44	0.45
2:G4:34:PHE:HB3	2:G4:36:THR:HG22	1.98	0.45
2:D4:219:ASP:OD2	2:E4:209:ARG:NH1	2.50	0.45
2:E4:79:LYS:HB2	2:E4:320:MET:CE	2.45	0.45
2:F4:77:TYR:CE2	2:F4:288:ILE:HA	2.49	0.45
1:B:186:SER:HA	1:b5:214:TRP:HZ2	1.81	0.45
1:B:461:VAL:HG21	1:b:462:GLN:NE2	2.32	0.45
1:b:395:TYR:HB3	1:b:399:ARG:HH12	1.82	0.45
1:B1:162:SER:OG	1:B1:163:ARG:NH2	2.49	0.45
1:B1:386:ARG:NH1	1:B1:387:ALA:HB2	2.31	0.45
1:b1:87:ARG:O	1:b1:447:TRP:HA	2.17	0.45
1:b2:80:HIS:CE1	1:B3:395:TYR:OH	2.69	0.45
1:b3:498:MET:HA	1:b3:501:ARG:HE	1.80	0.45
1:b4:194:GLN:HB3	1:b4:221:TRP:HH2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:435:PHE:O	1:B5:439:ARG:HG3	2.16	0.45
2:A0:264:LYS:HD2	2:A0:265:ASN:O	2.17	0.45
2:E0:77:TYR:CE2	2:E0:288:ILE:HA	2.49	0.45
2:F0:124:ALA:O	2:F0:128:GLU:HG2	2.15	0.45
2:A1:77:TYR:CE2	2:A1:288:ILE:HA	2.49	0.45
2:A1:135:VAL:HG12	2:A1:273:VAL:HG11	1.99	0.45
2:G1:138:GLY:HA2	2:G1:154:MET:HE2	1.97	0.45
2:C1:49:ASN:ND2	2:D1:260:ASN:O	2.50	0.45
2:C1:79:LYS:HB2	2:C1:320:MET:CE	2.45	0.45
2:D1:62:VAL:HA	2:E1:318:PHE:CZ	2.52	0.45
2:E1:80:PRO:HG2	2:E1:119:GLU:OE1	2.16	0.45
2:E1:227:GLU:O	2:E1:230:THR:OG1	2.26	0.45
2:E1:229:GLU:C	2:E1:233:LYS:HZ3	2.25	0.45
2:E1:282:LEU:O	2:E1:327:MET:HA	2.17	0.45
2:F1:135:VAL:HG12	2:F1:273:VAL:HG11	1.99	0.45
2:F1:196:ASN:HA	2:F1:248:VAL:HG23	1.98	0.45
2:G2:264:LYS:HD2	2:G2:265:ASN:O	2.17	0.45
2:C2:105:ALA:O	2:C2:108:ARG:HG2	2.16	0.45
2:C2:285:TYR:HD2	2:C2:302:ALA:HA	1.81	0.45
2:A3:306:LYS:HZ2	2:A3:308:TRP:CD1	2.35	0.45
2:G3:14:GLU:HB2	2:G3:16:LYS:HZ3	1.82	0.45
2:C3:196:ASN:HA	2:C3:248:VAL:HG23	1.98	0.45
2:D3:138:GLY:HA2	2:D3:154:MET:HE2	1.98	0.45
2:D3:219:ASP:OD2	2:E3:209:ARG:NH1	2.50	0.45
2:E3:80:PRO:HG2	2:E3:119:GLU:OE1	2.16	0.45
2:F3:80:PRO:HG2	2:F3:119:GLU:OE1	2.16	0.45
2:A4:87:GLN:NE2	2:A4:88:MET:HG2	2.32	0.45
2:G4:285:TYR:HD2	2:G4:302:ALA:HA	1.81	0.45
2:C4:49:ASN:ND2	2:D4:260:ASN:O	2.50	0.45
2:C4:117:ARG:HA	2:C4:120:GLU:CD	2.41	0.45
2:D4:87:GLN:NE2	2:D4:88:MET:HG2	2.32	0.45
2:D4:117:ARG:HA	2:D4:120:GLU:CD	2.41	0.45
2:D4:264:LYS:HD2	2:D4:265:ASN:O	2.17	0.45
2:E4:87:GLN:NE2	2:E4:88:MET:HG2	2.32	0.45
2:E4:227:GLU:OE1	2:E4:227:GLU:N	2.44	0.45
2:F4:196:ASN:HA	2:F4:248:VAL:HG23	1.98	0.45
2:F4:217:LYS:HD3	2:F4:245:TYR:CZ	2.51	0.45
1:B:117:GLU:HG2	1:b:96:TYR:CD2	2.51	0.45
1:B:376:ASN:CG	1:b:360:ARG:HD3	2.42	0.45
1:B2:78:GLN:NE2	1:B2:139:ARG:HG2	2.31	0.45
1:b2:265:GLN:CG	1:B3:259:LYS:HZ1	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b3:78:GLN:NE2	1:b3:139:ARG:HG2	2.31	0.45
1:B4:374:SER:OG	1:b4:360:ARG:CZ	2.64	0.45
1:b4:498:MET:HA	1:b4:501:ARG:HE	1.80	0.45
1:b5:194:GLN:HB3	1:b5:221:TRP:HH2	1.82	0.45
1:b5:386:ARG:NH1	1:b5:387:ALA:HB2	2.31	0.45
2:C0:129:MET:HA	2:C0:132:VAL:HG12	1.99	0.45
2:F0:129:MET:HA	2:F0:132:VAL:HG12	1.99	0.45
2:F0:308:TRP:HZ3	2:F0:310:THR:OG1	2.00	0.45
2:G1:129:MET:HA	2:G1:132:VAL:HG12	1.99	0.45
2:D1:217:LYS:HD3	2:D1:245:TYR:CZ	2.51	0.45
2:G2:24:LEU:HA	2:G2:28:PHE:HB2	1.98	0.45
2:D2:217:LYS:HD3	2:D2:245:TYR:CZ	2.51	0.45
2:D2:282:LEU:O	2:D2:327:MET:HA	2.17	0.45
2:E2:282:LEU:O	2:E2:327:MET:HA	2.17	0.45
2:F2:34:PHE:HB3	2:F2:36:THR:HG22	1.98	0.45
2:F2:87:GLN:NE2	2:F2:88:MET:HG2	2.32	0.45
2:A3:129:MET:HA	2:A3:132:VAL:HG12	1.99	0.45
2:G3:228:LEU:O	2:G3:232:VAL:HG23	2.17	0.45
2:C3:105:ALA:O	2:C3:108:ARG:HG2	2.16	0.45
2:E3:228:LEU:O	2:E3:232:VAL:HG23	2.17	0.45
2:E3:308:TRP:HZ3	2:E3:310:THR:OG1	2.00	0.45
2:F3:227:GLU:O	2:F3:230:THR:OG1	2.26	0.45
2:F3:282:LEU:O	2:F3:327:MET:HA	2.17	0.45
2:G4:80:PRO:HG2	2:G4:119:GLU:OE1	2.16	0.45
2:D4:24:LEU:HA	2:D4:28:PHE:HB2	1.98	0.45
2:D4:62:VAL:HA	2:E4:318:PHE:CZ	2.52	0.45
2:E4:129:MET:HA	2:E4:132:VAL:HG12	1.99	0.45
2:E4:264:LYS:HD2	2:E4:265:ASN:O	2.17	0.45
2:F4:91:ARG:O	2:F4:110:ARG:NH2	2.50	0.45
1:B:360:ARG:O	1:b5:374:SER:HB2	2.16	0.45
1:B:435:PHE:O	1:B:439:ARG:HG3	2.17	0.45
1:B:474:THR:HG23	1:B:477:LYS:NZ	2.32	0.45
1:b:77:HIS:O	1:b:81:ILE:HG12	2.17	0.45
1:b:117:GLU:HG2	1:B1:96:TYR:CD2	2.52	0.45
1:b:386:ARG:NH1	1:b:387:ALA:HB2	2.31	0.45
1:B1:76:LEU:O	1:B1:80:HIS:ND1	2.41	0.45
1:B1:212:PRO:HG3	1:b1:187:ARG:HA	1.99	0.45
1:B1:363:ALA:HB2	1:B1:370:TYR:CG	2.51	0.45
1:B2:361:TYR:CD2	1:B2:362:ILE:HG13	2.51	0.45
1:B3:194:GLN:HB3	1:B3:221:TRP:HH2	1.82	0.45
1:B3:265:GLN:HG3	1:b3:259:LYS:NZ	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b3:207:SER:HB2	1:b3:217:GLN:HB3	1.98	0.45
1:b3:474:THR:HG23	1:b3:477:LYS:NZ	2.32	0.45
1:B4:498:MET:HA	1:B4:501:ARG:HE	1.80	0.45
1:b4:87:ARG:O	1:b4:447:TRP:HA	2.17	0.45
1:B5:207:SER:HB2	1:B5:217:GLN:HB3	1.98	0.45
2:A0:54:VAL:HG21	2:A0:59:SER:HA	1.97	0.45
2:G0:34:PHE:HB3	2:G0:36:THR:HG22	1.98	0.45
2:G0:91:ARG:O	2:G0:110:ARG:NH2	2.50	0.45
2:G0:117:ARG:HA	2:G0:120:GLU:CD	2.41	0.45
2:G0:195:VAL:HG21	2:G0:274:LEU:HB3	1.98	0.45
2:C0:49:ASN:ND2	2:D0:260:ASN:O	2.50	0.45
2:C0:80:PRO:HG2	2:C0:119:GLU:OE1	2.16	0.45
2:D0:62:VAL:HA	2:E0:318:PHE:CZ	2.52	0.45
2:E0:77:TYR:CD2	2:E0:324:ALA:HB2	2.49	0.45
2:A1:77:TYR:CD2	2:A1:324:ALA:HB2	2.49	0.45
2:A1:87:GLN:NE2	2:A1:88:MET:HG2	2.32	0.45
2:A1:217:LYS:HD3	2:A1:245:TYR:CZ	2.51	0.45
2:G1:135:VAL:HG12	2:G1:273:VAL:HG11	1.99	0.45
2:D1:87:GLN:NE2	2:D1:88:MET:HG2	2.32	0.45
2:F1:87:GLN:NE2	2:F1:88:MET:HG2	2.32	0.45
2:A2:129:MET:HA	2:A2:132:VAL:HG12	1.99	0.45
2:A2:193:GLY:HA3	2:G2:263:LYS:HE3	1.98	0.45
2:G2:34:PHE:HB3	2:G2:36:THR:HG22	1.98	0.45
2:G2:285:TYR:HD2	2:G2:302:ALA:HA	1.81	0.45
2:C2:228:LEU:O	2:C2:232:VAL:HG23	2.17	0.45
2:E2:34:PHE:HB3	2:E2:36:THR:HG22	1.98	0.45
2:E2:91:ARG:O	2:E2:110:ARG:NH2	2.50	0.45
2:A3:227:GLU:O	2:A3:230:THR:OG1	2.26	0.45
2:G3:54:VAL:HG21	2:G3:59:SER:HA	1.97	0.45
2:G3:64:ARG:H	2:G3:66:ARG:NH1	2.11	0.45
2:G3:117:ARG:HA	2:G3:120:GLU:CD	2.41	0.45
2:G3:129:MET:HA	2:G3:132:VAL:HG12	1.99	0.45
2:C3:282:LEU:O	2:C3:327:MET:HA	2.17	0.45
2:E3:50:MET:SD	2:F3:121:LEU:HD12	2.56	0.45
2:F3:264:LYS:HD2	2:F3:265:ASN:O	2.17	0.45
2:A4:91:ARG:O	2:A4:110:ARG:NH2	2.50	0.45
2:C4:227:GLU:O	2:C4:230:THR:OG1	2.26	0.45
2:D4:135:VAL:HG12	2:D4:273:VAL:HG11	1.99	0.45
2:E4:105:ALA:O	2:E4:108:ARG:HG2	2.16	0.45
2:E4:308:TRP:HZ3	2:E4:310:THR:OG1	2.00	0.45
2:F4:117:ARG:HA	2:F4:120:GLU:CD	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F4:129:MET:HA	2:F4:132:VAL:HG12	1.99	0.45
2:F4:228:LEU:O	2:F4:232:VAL:HG23	2.17	0.45
1:B:78:GLN:NE2	1:B:139:ARG:HG2	2.31	0.45
1:B:270:GLN:HA	1:B:273:ILE:HG12	1.97	0.45
1:B:324:ARG:NH1	1:B:326:GLY:O	2.50	0.45
1:b:474:THR:HG23	1:b:477:LYS:NZ	2.32	0.45
1:B1:77:HIS:O	1:B1:81:ILE:HG12	2.17	0.45
1:B1:166:ARG:N	1:B1:418:GLU:OE2	2.49	0.45
1:B1:185:ASP:OD1	1:B1:185:ASP:N	2.47	0.45
1:B2:474:THR:HG23	1:B2:477:LYS:NZ	2.32	0.45
1:b2:77:HIS:O	1:b2:81:ILE:HG12	2.17	0.45
1:b2:187:ARG:O	1:b2:190:ARG:NE	2.45	0.45
1:b2:194:GLN:HB3	1:b2:221:TRP:HH2	1.82	0.45
1:b2:435:PHE:O	1:b2:439:ARG:HG3	2.16	0.45
1:B3:324:ARG:NH1	1:B3:326:GLY:O	2.50	0.45
1:b3:117:GLU:HG2	1:B4:96:TYR:CD2	2.51	0.45
1:b3:361:TYR:CD2	1:b3:362:ILE:HG13	2.51	0.45
1:B5:361:TYR:CD2	1:B5:362:ILE:HG13	2.51	0.45
1:b5:76:LEU:HD12	1:b5:77:HIS:N	2.31	0.45
1:b5:207:SER:HB2	1:b5:217:GLN:HB3	1.98	0.45
1:b5:368:VAL:HG12	1:b5:396:PHE:CZ	2.46	0.45
1:b5:474:THR:HG23	1:b5:477:LYS:NZ	2.32	0.45
2:A0:282:LEU:O	2:A0:327:MET:HA	2.17	0.45
2:G0:24:LEU:HA	2:G0:28:PHE:HB2	1.98	0.45
2:G0:135:VAL:HG12	2:G0:273:VAL:HG11	1.99	0.45
2:G0:228:LEU:O	2:G0:232:VAL:HG23	2.17	0.45
2:C0:264:LYS:HD2	2:C0:265:ASN:O	2.17	0.45
2:D0:24:LEU:HA	2:D0:28:PHE:HB2	1.98	0.45
2:D0:91:ARG:O	2:D0:110:ARG:NH2	2.50	0.45
2:E0:80:PRO:HG2	2:E0:119:GLU:OE1	2.16	0.45
2:E0:229:GLU:C	2:E0:233:LYS:HZ3	2.25	0.45
2:E0:285:TYR:HD2	2:E0:302:ALA:HA	1.81	0.45
2:F0:87:GLN:NE2	2:F0:88:MET:HG2	2.32	0.45
2:F0:282:LEU:O	2:F0:327:MET:HA	2.17	0.45
2:A1:34:PHE:HB3	2:A1:36:THR:HG22	1.98	0.45
2:A1:195:VAL:HG21	2:A1:274:LEU:HB3	1.98	0.45
2:G1:228:LEU:O	2:G1:232:VAL:HG23	2.17	0.45
2:C1:91:ARG:O	2:C1:110:ARG:NH2	2.50	0.45
2:D1:264:LYS:HD2	2:D1:265:ASN:O	2.17	0.45
2:E1:264:LYS:HD2	2:E1:265:ASN:O	2.17	0.45
2:A2:264:LYS:HD2	2:A2:265:ASN:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G2:105:ALA:O	2:G2:108:ARG:HG2	2.16	0.45
2:G2:129:MET:HA	2:G2:132:VAL:HG12	1.99	0.45
2:G2:195:VAL:HG21	2:G2:274:LEU:HB3	1.98	0.45
2:G2:215:LYS:HB3	2:G2:215:LYS:HE2	1.79	0.45
2:D2:117:ARG:HA	2:D2:120:GLU:CD	2.41	0.45
2:D2:264:LYS:HD2	2:D2:265:ASN:O	2.17	0.45
2:E2:129:MET:HA	2:E2:132:VAL:HG12	1.99	0.45
2:F2:308:TRP:HZ3	2:F2:310:THR:HG1	1.65	0.45
2:A3:135:VAL:HG12	2:A3:273:VAL:HG11	1.99	0.45
2:G3:91:ARG:O	2:G3:110:ARG:NH2	2.50	0.45
2:C3:264:LYS:HD2	2:C3:265:ASN:O	2.17	0.45
2:D3:282:LEU:O	2:D3:327:MET:HA	2.17	0.45
2:F3:117:ARG:HA	2:F3:120:GLU:CD	2.41	0.45
2:G4:24:LEU:HA	2:G4:28:PHE:HB2	1.98	0.45
2:G4:129:MET:HA	2:G4:132:VAL:HG12	1.99	0.45
2:G4:264:LYS:HD2	2:G4:265:ASN:O	2.17	0.45
2:C4:228:LEU:O	2:C4:232:VAL:HG23	2.17	0.45
2:C4:282:LEU:O	2:C4:327:MET:HA	2.17	0.45
2:D4:195:VAL:HG21	2:D4:274:LEU:HB3	1.98	0.45
2:D4:228:LEU:O	2:D4:232:VAL:HG23	2.17	0.45
2:E4:117:ARG:HA	2:E4:120:GLU:CD	2.41	0.45
1:B:76:LEU:O	1:B:80:HIS:ND1	2.41	0.45
1:b:76:LEU:HD12	1:b:77:HIS:N	2.31	0.45
1:B1:194:GLN:HB3	1:B1:221:TRP:HH2	1.82	0.45
1:B1:474:THR:HG23	1:B1:477:LYS:NZ	2.32	0.45
1:b1:374:SER:OG	1:B2:360:ARG:CZ	2.64	0.45
1:b1:376:ASN:CG	1:B2:360:ARG:HD3	2.42	0.45
1:b1:461:VAL:HG11	1:B2:462:GLN:OE1	2.17	0.45
1:B2:77:HIS:O	1:B2:81:ILE:HG12	2.17	0.45
1:B2:363:ALA:HB2	1:B2:370:TYR:CG	2.51	0.45
1:B3:150:GLU:OE2	1:B3:246:ARG:NE	2.47	0.45
1:b3:76:LEU:CD1	1:b3:368:VAL:HG11	2.46	0.45
1:b3:194:GLN:HB3	1:b3:221:TRP:HH2	1.82	0.45
1:B4:76:LEU:HD12	1:B4:77:HIS:N	2.31	0.45
1:B4:324:ARG:NH1	1:B4:326:GLY:O	2.50	0.45
1:B4:395:TYR:HB3	1:B4:399:ARG:HH12	1.82	0.45
1:b4:265:GLN:CG	1:B5:259:LYS:HZ1	2.30	0.45
1:b4:265:GLN:HG3	1:B5:259:LYS:NZ	2.32	0.45
1:b4:324:ARG:NH1	1:b4:326:GLY:O	2.50	0.45
1:B5:76:LEU:HD12	1:B5:77:HIS:N	2.31	0.45
2:A0:24:LEU:HA	2:A0:28:PHE:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:87:GLN:NE2	2:A0:88:MET:HG2	2.32	0.45
2:A0:195:VAL:HG21	2:A0:274:LEU:HB3	1.98	0.45
2:D0:105:ALA:O	2:D0:108:ARG:HG2	2.16	0.45
2:D0:219:ASP:OD2	2:E0:209:ARG:NH1	2.50	0.45
2:D0:264:LYS:HD2	2:D0:265:ASN:O	2.17	0.45
2:E0:264:LYS:HD2	2:E0:265:ASN:O	2.17	0.45
2:F0:195:VAL:HG21	2:F0:274:LEU:HB3	1.98	0.45
2:G1:80:PRO:HG2	2:G1:119:GLU:OE1	2.16	0.45
2:G1:87:GLN:NE2	2:G1:88:MET:HG2	2.32	0.45
2:G1:195:VAL:HG21	2:G1:274:LEU:HB3	1.98	0.45
2:G1:264:LYS:HD2	2:G1:265:ASN:O	2.17	0.45
2:C1:308:TRP:NE1	2:C1:320:MET:HB2	2.20	0.45
2:D1:285:TYR:HD2	2:D1:302:ALA:HA	1.81	0.45
2:E1:34:PHE:HB3	2:E1:36:THR:HG22	1.98	0.45
2:E1:87:GLN:NE2	2:E1:88:MET:HG2	2.32	0.45
2:E1:285:TYR:HD2	2:E1:302:ALA:HA	1.81	0.45
2:F1:117:ARG:HA	2:F1:120:GLU:CD	2.41	0.45
2:C2:77:TYR:CD2	2:C2:324:ALA:HB2	2.49	0.45
2:D2:135:VAL:HG12	2:D2:273:VAL:HG11	1.99	0.45
2:D2:195:VAL:HG21	2:D2:274:LEU:HB3	1.98	0.45
2:E2:87:GLN:NE2	2:E2:88:MET:HG2	2.32	0.45
2:E2:138:GLY:HA2	2:E2:154:MET:HE2	1.97	0.45
2:E2:196:ASN:HA	2:E2:248:VAL:HG23	1.98	0.45
2:E2:228:LEU:O	2:E2:232:VAL:HG23	2.17	0.45
2:F2:91:ARG:O	2:F2:110:ARG:NH2	2.50	0.45
2:F2:129:MET:HA	2:F2:132:VAL:HG12	1.99	0.45
2:F2:135:VAL:HG12	2:F2:273:VAL:HG11	1.99	0.45
2:A3:87:GLN:NE2	2:A3:88:MET:HG2	2.32	0.45
2:G3:80:PRO:HG2	2:G3:119:GLU:OE1	2.16	0.45
2:C3:87:GLN:NE2	2:C3:88:MET:HG2	2.32	0.45
2:C3:91:ARG:O	2:C3:110:ARG:NH2	2.50	0.45
2:E3:79:LYS:HB2	2:E3:320:MET:CE	2.45	0.45
2:F3:195:VAL:HG21	2:F3:274:LEU:HB3	1.98	0.45
2:A4:77:TYR:CD2	2:A4:324:ALA:HB2	2.49	0.45
2:A4:218:LEU:HB3	2:A4:245:TYR:HD1	1.82	0.45
2:A4:282:LEU:O	2:A4:327:MET:HA	2.17	0.45
2:C4:87:GLN:NE2	2:C4:88:MET:HG2	2.32	0.45
2:C4:129:MET:HA	2:C4:132:VAL:HG12	1.99	0.45
2:C4:229:GLU:C	2:C4:233:LYS:HZ3	2.25	0.45
2:E4:195:VAL:HG21	2:E4:274:LEU:HB3	1.98	0.45
2:E4:282:LEU:O	2:E4:327:MET:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F4:282:LEU:O	2:F4:327:MET:HA	2.17	0.45
2:F4:308:TRP:HZ3	2:F4:310:THR:OG1	2.00	0.45
1:B:207:SER:HB2	1:B:217:GLN:HB3	1.98	0.44
1:B:386:ARG:NH1	1:B:387:ALA:HB2	2.31	0.44
1:B1:72:ASN:OD1	1:b1:365:GLY:HA2	2.17	0.44
1:b1:324:ARG:NH1	1:b1:326:GLY:O	2.50	0.44
1:B2:212:PRO:HG3	1:b2:187:ARG:HA	1.99	0.44
1:B2:324:ARG:NH1	1:B2:326:GLY:O	2.50	0.44
1:b2:87:ARG:O	1:b2:447:TRP:HA	2.17	0.44
1:b2:317:TYR:CE2	1:B3:334:MET:SD	3.10	0.44
1:B3:77:HIS:O	1:B3:81:ILE:HG12	2.17	0.44
1:B3:374:SER:OG	1:b3:360:ARG:CZ	2.64	0.44
1:b3:162:SER:OG	1:b3:163:ARG:NH2	2.49	0.44
1:b3:393:TRP:O	1:b3:397:MET:HG2	2.17	0.44
1:B5:87:ARG:O	1:B5:447:TRP:HA	2.17	0.44
2:A0:218:LEU:HB3	2:A0:245:TYR:HD1	1.82	0.44
2:A0:228:LEU:O	2:A0:232:VAL:HG23	2.17	0.44
2:G0:87:GLN:NE2	2:G0:88:MET:HG2	2.32	0.44
2:G0:129:MET:HA	2:G0:132:VAL:HG12	1.99	0.44
2:C0:82:HIS:HB2	2:C0:115:ASN:HD21	1.83	0.44
2:D0:228:LEU:O	2:D0:232:VAL:HG23	2.17	0.44
2:A1:91:ARG:O	2:A1:110:ARG:NH2	2.50	0.44
2:C1:308:TRP:HZ3	2:C1:310:THR:OG1	2.00	0.44
2:D1:91:ARG:O	2:D1:110:ARG:NH2	2.50	0.44
2:F1:24:LEU:HA	2:F1:28:PHE:HB2	1.98	0.44
2:A2:80:PRO:HG2	2:A2:119:GLU:OE1	2.16	0.44
2:G2:135:VAL:HG12	2:G2:273:VAL:HG11	1.99	0.44
2:G2:218:LEU:HB3	2:G2:245:TYR:HD1	1.83	0.44
2:C2:34:PHE:HB3	2:C2:36:THR:HG22	1.99	0.44
2:C2:91:ARG:O	2:C2:110:ARG:NH2	2.50	0.44
2:F2:229:GLU:C	2:F2:233:LYS:HZ3	2.25	0.44
2:A3:282:LEU:O	2:A3:327:MET:HA	2.17	0.44
2:G3:218:LEU:HB3	2:G3:245:TYR:HD1	1.82	0.44
2:C3:215:LYS:HE2	2:C3:215:LYS:HB3	1.79	0.44
2:C3:227:GLU:OE1	2:C3:227:GLU:N	2.44	0.44
2:D3:82:HIS:HB2	2:D3:115:ASN:HD21	1.82	0.44
2:F3:24:LEU:HA	2:F3:28:PHE:HB2	1.98	0.44
2:A4:135:VAL:HG12	2:A4:273:VAL:HG11	1.99	0.44
2:G4:54:VAL:HG21	2:G4:59:SER:HA	1.97	0.44
2:G4:105:ALA:O	2:G4:108:ARG:HG2	2.16	0.44
2:C4:218:LEU:HB3	2:C4:245:TYR:HD1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F4:87:GLN:NE2	2:F4:88:MET:HG2	2.32	0.44
2:F4:195:VAL:HG21	2:F4:274:LEU:HB3	1.98	0.44
2:F4:229:GLU:C	2:F4:233:LYS:HZ3	2.25	0.44
1:B:395:TYR:HB3	1:B:399:ARG:HH12	1.82	0.44
1:b:194:GLN:HB3	1:b:221:TRP:HH2	1.82	0.44
1:b:393:TRP:O	1:b:397:MET:HG2	2.18	0.44
1:B1:76:LEU:CD1	1:B1:368:VAL:HG11	2.46	0.44
1:B1:395:TYR:HB3	1:B1:399:ARG:HH12	1.82	0.44
1:b1:77:HIS:O	1:b1:81:ILE:HG12	2.17	0.44
1:b1:435:PHE:O	1:b1:439:ARG:HG3	2.17	0.44
1:B2:87:ARG:O	1:B2:447:TRP:HA	2.17	0.44
1:B2:393:TRP:O	1:B2:397:MET:HG2	2.17	0.44
1:b2:474:THR:HG23	1:b2:477:LYS:NZ	2.32	0.44
1:B3:395:TYR:HB3	1:B3:399:ARG:HH12	1.82	0.44
1:b3:376:ASN:CG	1:B4:360:ARG:HD3	2.42	0.44
1:b3:435:PHE:O	1:b3:439:ARG:HG3	2.17	0.44
1:B4:197:ASP:OD1	1:B4:197:ASP:N	2.50	0.44
1:b4:393:TRP:O	1:b4:397:MET:HG2	2.18	0.44
1:B5:474:THR:HG23	1:B5:477:LYS:NZ	2.32	0.44
1:b5:393:TRP:O	1:b5:397:MET:HG2	2.18	0.44
2:C0:282:LEU:O	2:C0:327:MET:HA	2.17	0.44
2:D0:79:LYS:HB2	2:D0:320:MET:CE	2.45	0.44
2:E0:159:GLU:HB2	2:E0:190:ASN:HD22	1.83	0.44
2:E0:282:LEU:O	2:E0:327:MET:HA	2.17	0.44
2:G1:159:GLU:HB2	2:G1:190:ASN:HD22	1.83	0.44
2:G1:282:LEU:O	2:G1:327:MET:HA	2.17	0.44
2:C1:87:GLN:NE2	2:C1:88:MET:HG2	2.32	0.44
2:D1:219:ASP:OD2	2:E1:209:ARG:NH1	2.50	0.44
2:E1:129:MET:HA	2:E1:132:VAL:HG12	1.99	0.44
2:F1:264:LYS:HD2	2:F1:265:ASN:O	2.17	0.44
2:A2:14:GLU:HB2	2:A2:16:LYS:HZ3	1.82	0.44
2:A2:82:HIS:HB2	2:A2:115:ASN:HD21	1.83	0.44
2:A2:87:GLN:NE2	2:A2:88:MET:HG2	2.32	0.44
2:G2:91:ARG:O	2:G2:110:ARG:NH2	2.50	0.44
2:D2:24:LEU:HA	2:D2:28:PHE:HB2	1.98	0.44
2:D2:228:LEU:O	2:D2:232:VAL:HG23	2.17	0.44
2:E2:159:GLU:HB2	2:E2:190:ASN:HD22	1.83	0.44
2:F2:24:LEU:HA	2:F2:28:PHE:HB2	1.98	0.44
2:A3:240:SER:HB3	2:F3:194:VAL:CG2	2.47	0.44
2:C3:80:PRO:HG2	2:C3:119:GLU:OE1	2.16	0.44
2:C3:159:GLU:HB2	2:C3:190:ASN:HD22	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D3:34:PHE:HB3	2:D3:36:THR:HG22	1.99	0.44
2:D3:135:VAL:HG12	2:D3:273:VAL:HG11	1.99	0.44
2:D3:194:VAL:H	2:E3:263:LYS:HZ1	1.65	0.44
2:D3:308:TRP:HZ3	2:D3:310:THR:OG1	2.00	0.44
2:E3:138:GLY:HA2	2:E3:154:MET:HE2	1.98	0.44
2:G4:77:TYR:CD2	2:G4:324:ALA:HB2	2.49	0.44
2:G4:163:THR:HB	2:G4:339:GLN:NE2	2.25	0.44
2:G4:218:LEU:HB3	2:G4:245:TYR:HD1	1.82	0.44
2:C4:264:LYS:HD2	2:C4:265:ASN:O	2.17	0.44
2:D4:285:TYR:HD2	2:D4:302:ALA:HA	1.81	0.44
2:F4:34:PHE:HB3	2:F4:36:THR:HG22	1.98	0.44
1:B:194:GLN:HB3	1:B:221:TRP:HH2	1.82	0.44
1:b:212:PRO:HG3	1:B1:187:ARG:HA	1.99	0.44
1:b:324:ARG:NH1	1:b:326:GLY:O	2.50	0.44
1:b1:78:GLN:NE2	1:b1:139:ARG:HG2	2.31	0.44
1:b1:270:GLN:HA	1:b1:273:ILE:HG12	1.97	0.44
1:b1:393:TRP:O	1:b1:397:MET:HG2	2.18	0.44
1:b1:474:THR:HG23	1:b1:477:LYS:NZ	2.32	0.44
1:B4:87:ARG:O	1:B4:447:TRP:HA	2.17	0.44
1:B4:374:SER:HB2	1:b4:360:ARG:O	2.17	0.44
1:B4:376:ASN:CG	1:b4:360:ARG:HD3	2.42	0.44
1:b4:207:SER:HB2	1:b4:217:GLN:HB3	1.98	0.44
1:b4:265:GLN:HG3	1:B5:259:LYS:HZ1	1.82	0.44
1:b4:474:THR:HG23	1:b4:477:LYS:NZ	2.32	0.44
2:G0:264:LYS:HD2	2:G0:265:ASN:O	2.17	0.44
2:C0:34:PHE:HB3	2:C0:36:THR:HG22	1.98	0.44
2:C0:91:ARG:O	2:C0:110:ARG:NH2	2.50	0.44
2:C0:194:VAL:HG21	2:D0:240:SER:HB3	1.99	0.44
2:D0:33:PRO:CA	2:D0:285:TYR:HB2	2.46	0.44
2:E0:82:HIS:HB2	2:E0:115:ASN:HD21	1.82	0.44
2:E0:91:ARG:O	2:E0:110:ARG:NH2	2.50	0.44
2:F0:34:PHE:HB3	2:F0:36:THR:HG22	1.98	0.44
2:F0:82:HIS:HB2	2:F0:115:ASN:HD21	1.82	0.44
2:F0:163:THR:HB	2:F0:339:GLN:NE2	2.25	0.44
2:F0:229:GLU:C	2:F0:233:LYS:HZ3	2.25	0.44
2:G1:215:LYS:HB3	2:G1:215:LYS:HE2	1.79	0.44
2:C1:194:VAL:HG21	2:D1:240:SER:HB3	1.99	0.44
2:E1:91:ARG:O	2:E1:110:ARG:NH2	2.50	0.44
2:E1:228:LEU:O	2:E1:232:VAL:HG23	2.17	0.44
2:F1:105:ALA:O	2:F1:108:ARG:HG2	2.16	0.44
2:A2:79:LYS:HB2	2:A2:320:MET:CE	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:91:ARG:O	2:A2:110:ARG:NH2	2.50	0.44
2:A2:240:SER:HB3	2:F2:194:VAL:CG2	2.47	0.44
2:G2:87:GLN:NE2	2:G2:88:MET:HG2	2.32	0.44
2:D2:82:HIS:HB2	2:D2:115:ASN:HD21	1.82	0.44
2:D2:91:ARG:O	2:D2:110:ARG:NH2	2.50	0.44
2:D2:196:ASN:HA	2:D2:248:VAL:HG23	1.98	0.44
2:E2:285:TYR:HD2	2:E2:302:ALA:HA	1.81	0.44
2:F2:228:LEU:O	2:F2:232:VAL:HG23	2.17	0.44
2:C3:34:PHE:HB3	2:C3:36:THR:HG22	1.98	0.44
2:D3:87:GLN:NE2	2:D3:88:MET:HG2	2.32	0.44
2:D3:195:VAL:HG21	2:D3:274:LEU:HB3	1.98	0.44
2:D3:264:LYS:HD2	2:D3:265:ASN:O	2.17	0.44
2:E3:135:VAL:HG12	2:E3:273:VAL:HG11	1.99	0.44
2:E3:159:GLU:HB2	2:E3:190:ASN:HD22	1.83	0.44
2:A4:82:HIS:HB2	2:A4:115:ASN:HD21	1.83	0.44
2:A4:129:MET:HA	2:A4:132:VAL:HG12	1.99	0.44
2:C4:91:ARG:O	2:C4:110:ARG:NH2	2.50	0.44
2:C4:105:ALA:O	2:C4:108:ARG:HG2	2.16	0.44
2:D4:82:HIS:HB2	2:D4:115:ASN:HD21	1.83	0.44
2:D4:218:LEU:HB3	2:D4:245:TYR:HD1	1.82	0.44
2:D4:282:LEU:O	2:D4:327:MET:HA	2.17	0.44
2:E4:80:PRO:HG2	2:E4:119:GLU:OE1	2.16	0.44
2:E4:228:LEU:O	2:E4:232:VAL:HG23	2.17	0.44
2:F4:79:LYS:HB2	2:F4:320:MET:CE	2.45	0.44
1:B:77:HIS:O	1:B:81:ILE:HG12	2.17	0.44
1:B:359:LEU:HB2	1:B:370:TYR:CD2	2.52	0.44
1:b:87:ARG:O	1:b:447:TRP:HA	2.17	0.44
1:b:461:VAL:HG11	1:B1:462:GLN:OE1	2.18	0.44
1:B1:87:ARG:O	1:B1:447:TRP:HA	2.17	0.44
1:B1:376:ASN:CG	1:b1:360:ARG:HD3	2.43	0.44
1:B2:36:ARG:HA	2:C0:104:PRO:HG2	1.98	0.44
1:B2:395:TYR:HB3	1:B2:399:ARG:HH12	1.82	0.44
1:b2:265:GLN:HG3	1:B3:259:LYS:HZ1	1.83	0.44
1:B3:265:GLN:HG3	1:b3:259:LYS:HZ1	1.82	0.44
1:B5:324:ARG:NH1	1:B5:326:GLY:O	2.50	0.44
1:B5:375:ARG:O	1:B5:376:ASN:C	2.57	0.44
1:b5:318:TYR:OH	1:b5:333:LEU:O	2.20	0.44
2:A0:15:GLN:HG2	2:A0:120:GLU:OE2	2.18	0.44
2:A0:308:TRP:HZ3	2:A0:310:THR:OG1	2.00	0.44
2:G0:82:HIS:HB2	2:G0:115:ASN:HD21	1.83	0.44
2:D0:87:GLN:NE2	2:D0:88:MET:HG2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E0:87:GLN:NE2	2:E0:88:MET:HG2	2.32	0.44
2:E0:228:LEU:O	2:E0:232:VAL:HG23	2.17	0.44
2:F0:91:ARG:O	2:F0:110:ARG:NH2	2.50	0.44
2:F0:135:VAL:HG12	2:F0:273:VAL:HG11	1.99	0.44
2:A1:193:GLY:HA3	2:G1:263:LYS:HE3	1.98	0.44
2:A1:218:LEU:HB3	2:A1:245:TYR:HD1	1.83	0.44
2:C1:264:LYS:HD2	2:C1:265:ASN:O	2.17	0.44
2:C1:308:TRP:HZ3	2:C1:310:THR:HG1	1.65	0.44
2:E1:218:LEU:HB3	2:E1:245:TYR:HD1	1.83	0.44
2:F1:33:PRO:CA	2:F1:285:TYR:HB2	2.46	0.44
2:F1:77:TYR:CE2	2:F1:288:ILE:HA	2.49	0.44
2:C2:87:GLN:NE2	2:C2:88:MET:HG2	2.32	0.44
2:C2:282:LEU:O	2:C2:327:MET:HA	2.17	0.44
2:D2:87:GLN:NE2	2:D2:88:MET:HG2	2.32	0.44
2:E2:308:TRP:HZ3	2:E2:310:THR:OG1	2.00	0.44
2:A3:91:ARG:O	2:A3:110:ARG:NH2	2.50	0.44
2:A3:159:GLU:HB2	2:A3:190:ASN:HD22	1.83	0.44
2:C3:82:HIS:HB2	2:C3:115:ASN:HD21	1.83	0.44
2:C3:194:VAL:HG21	2:D3:240:SER:HB3	1.99	0.44
2:D3:77:TYR:CD2	2:D3:324:ALA:HB2	2.49	0.44
2:E3:82:HIS:HB2	2:E3:115:ASN:HD21	1.83	0.44
2:G4:228:LEU:O	2:G4:232:VAL:HG23	2.17	0.44
2:G4:282:LEU:O	2:G4:327:MET:HA	2.17	0.44
1:B:72:ASN:OD1	1:b:365:GLY:HA2	2.18	0.44
1:b:435:PHE:O	1:b:439:ARG:HG3	2.17	0.44
1:B1:393:TRP:O	1:B1:397:MET:HG2	2.17	0.44
1:B1:474:THR:HG23	1:B1:477:LYS:HZ3	1.83	0.44
1:B2:194:GLN:HB3	1:B2:221:TRP:HH2	1.82	0.44
1:B2:461:VAL:HG21	1:b2:462:GLN:NE2	2.33	0.44
1:b2:324:ARG:NH1	1:b2:326:GLY:O	2.50	0.44
1:b2:368:VAL:HG12	1:b2:396:PHE:CZ	2.46	0.44
1:b2:393:TRP:O	1:b2:397:MET:HG2	2.17	0.44
1:b2:475:TYR:HH	1:b2:490:PHE:HE2	1.66	0.44
1:B3:170:ARG:NH2	1:b3:198:SER:O	2.39	0.44
1:B3:197:ASP:N	1:B3:197:ASP:OD1	2.50	0.44
1:B5:77:HIS:O	1:B5:81:ILE:HG12	2.17	0.44
1:B5:184:GLY:N	2:G2:109:ARG:NH2	2.61	0.44
1:B5:197:ASP:OD1	1:B5:197:ASP:N	2.50	0.44
1:B5:375:ARG:HB3	1:b5:364:ALA:HB2	1.98	0.44
2:A0:14:GLU:HB2	2:A0:16:LYS:HZ3	1.81	0.44
2:A0:34:PHE:HB3	2:A0:36:THR:HG22	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:221:ARG:HH21	2:F0:246:GLY:CA	2.30	0.44
2:C0:87:GLN:NE2	2:C0:88:MET:HG2	2.32	0.44
2:C0:228:LEU:O	2:C0:232:VAL:HG23	2.17	0.44
2:D0:82:HIS:HB2	2:D0:115:ASN:HD21	1.83	0.44
2:D0:218:LEU:HB3	2:D0:245:TYR:HD1	1.82	0.44
2:E0:217:LYS:HD3	2:E0:245:TYR:CZ	2.51	0.44
2:A1:228:LEU:O	2:A1:232:VAL:HG23	2.17	0.44
2:G1:91:ARG:O	2:G1:110:ARG:NH2	2.50	0.44
2:D1:135:VAL:HG12	2:D1:273:VAL:HG11	1.99	0.44
2:D1:282:LEU:O	2:D1:327:MET:HA	2.17	0.44
2:F1:228:LEU:O	2:F1:232:VAL:HG23	2.17	0.44
2:F1:282:LEU:O	2:F1:327:MET:HA	2.17	0.44
2:A2:34:PHE:HB3	2:A2:36:THR:HG22	1.98	0.44
2:A2:221:ARG:HH21	2:F2:246:GLY:CA	2.30	0.44
2:A2:282:LEU:O	2:A2:327:MET:HA	2.17	0.44
2:C2:49:ASN:ND2	2:D2:260:ASN:O	2.50	0.44
2:C2:129:MET:HA	2:C2:132:VAL:HG12	1.99	0.44
2:E2:135:VAL:HG12	2:E2:273:VAL:HG11	1.99	0.44
2:F2:105:ALA:O	2:F2:108:ARG:HG2	2.16	0.44
2:C3:218:LEU:HB3	2:C3:245:TYR:HD1	1.83	0.44
2:F3:159:GLU:HB2	2:F3:190:ASN:HD22	1.83	0.44
2:A4:308:TRP:HZ3	2:A4:310:THR:OG1	2.00	0.44
2:G4:87:GLN:NE2	2:G4:88:MET:HG2	2.32	0.44
2:D4:14:GLU:HB2	2:D4:16:LYS:HZ1	1.82	0.44
2:D4:91:ARG:O	2:D4:110:ARG:NH2	2.50	0.44
2:E4:91:ARG:O	2:E4:110:ARG:NH2	2.50	0.44
2:F4:159:GLU:HB2	2:F4:190:ASN:HD22	1.83	0.44
1:B:87:ARG:O	1:B:447:TRP:HA	2.17	0.44
1:b:207:SER:HB2	1:b:217:GLN:HB3	1.98	0.44
1:b1:194:GLN:HB3	1:b1:221:TRP:HH2	1.82	0.44
1:B2:376:ASN:CG	1:b2:360:ARG:HD3	2.43	0.44
1:B3:393:TRP:O	1:B3:397:MET:HG2	2.18	0.44
1:B3:474:THR:HG23	1:B3:477:LYS:NZ	2.32	0.44
1:B4:474:THR:HG23	1:B4:477:LYS:NZ	2.32	0.44
1:b4:150:GLU:OE2	1:b4:246:ARG:NE	2.47	0.44
1:b5:324:ARG:NH1	1:b5:326:GLY:O	2.50	0.44
2:F0:285:TYR:HD2	2:F0:302:ALA:HA	1.81	0.44
2:G1:82:HIS:HB2	2:G1:115:ASN:HD21	1.83	0.44
2:D1:308:TRP:HZ3	2:D1:310:THR:OG1	2.00	0.44
2:E1:159:GLU:HB2	2:E1:190:ASN:HD22	1.83	0.44
2:F1:34:PHE:HB3	2:F1:36:THR:HG22	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G2:159:GLU:HB2	2:G2:190:ASN:HD22	1.83	0.44
2:D2:15:GLN:HG2	2:D2:120:GLU:OE2	2.18	0.44
2:D2:219:ASP:OD2	2:E2:209:ARG:NH1	2.50	0.44
2:E2:77:TYR:CE2	2:E2:288:ILE:HA	2.48	0.44
2:E2:79:LYS:HB2	2:E2:320:MET:CE	2.45	0.44
2:E2:195:VAL:HG21	2:E2:274:LEU:HB3	1.98	0.44
2:F2:282:LEU:O	2:F2:327:MET:HA	2.17	0.44
2:A3:221:ARG:HH21	2:F3:246:GLY:CA	2.30	0.44
2:G3:87:GLN:NE2	2:G3:88:MET:HG2	2.32	0.44
2:G3:282:LEU:O	2:G3:327:MET:HA	2.17	0.44
2:C3:308:TRP:HZ3	2:C3:310:THR:OG1	2.00	0.44
2:D3:15:GLN:HG2	2:D3:120:GLU:OE2	2.18	0.44
2:E3:77:TYR:CD2	2:E3:324:ALA:HB2	2.49	0.44
2:F3:135:VAL:HG12	2:F3:273:VAL:HG11	1.99	0.44
2:E4:135:VAL:HG12	2:E4:273:VAL:HG11	1.99	0.44
2:F4:24:LEU:HA	2:F4:28:PHE:HB2	1.98	0.44
1:b:150:GLU:OE2	1:b:246:ARG:NE	2.47	0.44
1:b1:76:LEU:CD1	1:b1:368:VAL:HG11	2.46	0.44
1:b1:265:GLN:HG3	1:B2:259:LYS:NZ	2.33	0.44
1:b2:185:ASP:N	1:b2:185:ASP:OD1	2.47	0.44
1:b2:380:MET:HG2	1:b2:384:THR:CG2	2.48	0.44
1:B3:359:LEU:HB2	1:B3:370:TYR:CD2	2.52	0.44
1:b3:324:ARG:NH1	1:b3:326:GLY:O	2.50	0.44
1:B4:380:MET:HG2	1:B4:384:THR:CG2	2.48	0.44
1:b4:77:HIS:O	1:b4:81:ILE:HG12	2.17	0.44
1:B5:194:GLN:HB3	1:B5:221:TRP:HH2	1.82	0.44
1:B5:475:TYR:HH	1:B5:490:PHE:HE2	1.66	0.44
2:G0:218:LEU:HB3	2:G0:245:TYR:HD1	1.82	0.44
2:C0:135:VAL:HG12	2:C0:273:VAL:HG11	1.99	0.44
2:D0:34:PHE:HB3	2:D0:36:THR:HG22	1.98	0.44
2:D0:285:TYR:HD2	2:D0:302:ALA:HA	1.81	0.44
2:E0:15:GLN:HG2	2:E0:120:GLU:OE2	2.18	0.44
2:F0:228:LEU:O	2:F0:232:VAL:HG23	2.17	0.44
2:A1:308:TRP:HZ3	2:A1:310:THR:OG1	2.00	0.44
2:G1:229:GLU:C	2:G1:233:LYS:HZ3	2.26	0.44
2:G1:302:ALA:C	2:G1:303:ARG:HD3	2.43	0.44
2:E1:308:TRP:HZ3	2:E1:310:THR:OG1	2.00	0.44
2:F1:129:MET:HA	2:F1:132:VAL:HG12	1.99	0.44
2:A2:15:GLN:HG2	2:A2:120:GLU:OE2	2.18	0.44
2:A2:159:GLU:HB2	2:A2:190:ASN:HD22	1.83	0.44
2:A2:308:TRP:HZ3	2:A2:310:THR:OG1	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G2:228:LEU:O	2:G2:232:VAL:HG23	2.17	0.44
2:G2:282:LEU:O	2:G2:327:MET:HA	2.17	0.44
2:C2:264:LYS:HD2	2:C2:265:ASN:O	2.17	0.44
2:D2:129:MET:HA	2:D2:132:VAL:HG12	1.99	0.44
2:E2:59:SER:CB	2:F2:81:LYS:HZ2	2.29	0.44
2:A3:193:GLY:HA3	2:G3:263:LYS:HE3	1.98	0.44
2:G3:15:GLN:HG2	2:G3:120:GLU:OE2	2.18	0.44
2:G3:77:TYR:CE2	2:G3:288:ILE:HA	2.48	0.44
2:D3:129:MET:HA	2:D3:132:VAL:HG12	1.99	0.44
2:F3:77:TYR:CE2	2:F3:288:ILE:HA	2.48	0.44
2:F3:87:GLN:NE2	2:F3:88:MET:HG2	2.32	0.44
2:F3:308:TRP:HZ3	2:F3:310:THR:OG1	2.00	0.44
2:A4:240:SER:HB3	2:F4:194:VAL:CG2	2.47	0.44
2:G4:91:ARG:O	2:G4:110:ARG:NH2	2.50	0.44
2:G4:195:VAL:HG21	2:G4:274:LEU:HB3	1.98	0.44
2:C4:159:GLU:HB2	2:C4:190:ASN:HD22	1.83	0.44
2:C4:194:VAL:HG21	2:D4:240:SER:HB3	1.99	0.44
2:C4:308:TRP:HZ3	2:C4:310:THR:OG1	2.00	0.44
2:D4:129:MET:HA	2:D4:132:VAL:HG12	1.99	0.44
2:F4:82:HIS:HB2	2:F4:115:ASN:HD21	1.83	0.44
2:F4:264:LYS:HD2	2:F4:265:ASN:O	2.17	0.44
1:b:197:ASP:OD1	1:b:197:ASP:N	2.50	0.44
1:B1:324:ARG:NH1	1:B1:326:GLY:O	2.50	0.44
1:B1:380:MET:HG2	1:B1:384:THR:CG2	2.48	0.44
1:b1:91:ARG:NH2	1:b1:105:ARG:HA	2.30	0.44
1:b1:209:ASP:O	1:b1:215:MET:HE3	2.18	0.44
1:b1:380:MET:HG2	1:b1:384:THR:CG2	2.48	0.44
1:b3:87:ARG:O	1:b3:447:TRP:HA	2.17	0.44
1:b4:91:ARG:NH2	1:b4:105:ARG:HA	2.30	0.44
1:B5:393:TRP:O	1:B5:397:MET:HG2	2.17	0.44
2:A0:129:MET:HA	2:A0:132:VAL:HG12	1.99	0.44
2:G0:227:GLU:O	2:G0:230:THR:OG1	2.26	0.44
2:G0:285:TYR:HD2	2:G0:302:ALA:HA	1.81	0.44
2:C0:79:LYS:HB2	2:C0:320:MET:CE	2.45	0.44
2:C0:308:TRP:HZ3	2:C0:310:THR:OG1	2.00	0.44
2:E0:138:GLY:HA2	2:E0:154:MET:HE2	1.98	0.44
2:C1:82:HIS:HB2	2:C1:115:ASN:HD21	1.83	0.44
2:C1:135:VAL:HG12	2:C1:273:VAL:HG11	1.99	0.44
2:D1:50:MET:O	2:D1:50:MET:SD	2.76	0.44
2:D1:228:LEU:O	2:D1:232:VAL:HG23	2.17	0.44
2:E1:15:GLN:HG2	2:E1:120:GLU:OE2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:285:TYR:HA	2:A2:324:ALA:O	2.18	0.44
2:G2:50:MET:SD	2:G2:50:MET:O	2.76	0.44
2:C2:159:GLU:HB2	2:C2:190:ASN:HD22	1.83	0.44
2:F2:15:GLN:HG2	2:F2:120:GLU:OE2	2.18	0.44
2:F2:308:TRP:HZ3	2:F2:310:THR:OG1	2.00	0.44
2:G3:53:TYR:CG	2:C3:78:VAL:HG22	2.53	0.44
2:C3:129:MET:HA	2:C3:132:VAL:HG12	1.99	0.44
2:E3:33:PRO:CA	2:E3:285:TYR:HB2	2.46	0.44
2:E3:59:SER:CB	2:F3:81:LYS:HZ2	2.29	0.44
2:F3:77:TYR:CD2	2:F3:324:ALA:HB2	2.49	0.44
2:A4:221:ARG:HH21	2:F4:246:GLY:CA	2.30	0.44
2:A4:264:LYS:HD2	2:A4:265:ASN:O	2.17	0.44
2:G4:50:MET:SD	2:G4:50:MET:O	2.76	0.44
2:G4:196:ASN:HA	2:G4:248:VAL:HG23	1.98	0.44
2:C4:50:MET:O	2:C4:50:MET:SD	2.76	0.44
2:C4:77:TYR:CD2	2:C4:324:ALA:HB2	2.49	0.44
2:C4:135:VAL:HG12	2:C4:273:VAL:HG11	1.99	0.44
2:F4:227:GLU:OE1	2:F4:227:GLU:N	2.44	0.44
1:B:380:MET:HG2	1:B:384:THR:CG2	2.48	0.44
1:B2:39:ASN:CG	2:C0:103:ASP:CG	2.85	0.44
1:B2:76:LEU:O	1:B2:80:HIS:ND1	2.41	0.44
1:b2:359:LEU:HB2	1:b2:370:TYR:CD2	2.53	0.44
1:b2:395:TYR:HB3	1:b2:399:ARG:HH12	1.82	0.44
1:B3:76:LEU:CD1	1:B3:368:VAL:HG11	2.46	0.44
1:B3:87:ARG:O	1:B3:447:TRP:HA	2.17	0.44
1:B3:377:TYR:HE2	1:b3:371:GLU:CD	2.25	0.44
1:b3:197:ASP:OD1	1:b3:197:ASP:N	2.50	0.44
1:b3:265:GLN:CG	1:B4:259:LYS:HZ1	2.31	0.44
1:B4:393:TRP:O	1:B4:397:MET:HG2	2.17	0.44
1:b4:395:TYR:HB3	1:b4:399:ARG:HH12	1.82	0.44
1:B5:395:TYR:HB3	1:B5:399:ARG:HH12	1.82	0.44
1:B5:461:VAL:HG11	1:b5:462:GLN:OE1	2.18	0.44
1:B5:461:VAL:HG21	1:b5:462:GLN:NE2	2.32	0.44
2:A0:82:HIS:HB2	2:A0:115:ASN:HD21	1.82	0.44
2:C0:15:GLN:HG2	2:C0:120:GLU:OE2	2.18	0.44
2:C0:218:LEU:HB3	2:C0:245:TYR:HD1	1.83	0.44
2:D0:159:GLU:HB2	2:D0:190:ASN:HD22	1.83	0.44
2:D0:302:ALA:C	2:D0:303:ARG:HD3	2.43	0.44
2:E0:33:PRO:CA	2:E0:285:TYR:HB2	2.46	0.44
2:F0:264:LYS:HD2	2:F0:265:ASN:O	2.17	0.44
2:A1:229:GLU:C	2:A1:233:LYS:HZ3	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:240:SER:HB3	2:F1:194:VAL:CG2	2.47	0.44
2:G1:53:TYR:CG	2:C1:78:VAL:HG22	2.53	0.44
2:C1:50:MET:O	2:C1:50:MET:SD	2.76	0.44
2:C2:194:VAL:HG21	2:D2:240:SER:HB3	1.99	0.44
2:F2:302:ALA:C	2:F2:303:ARG:HD3	2.43	0.44
2:G3:82:HIS:HB2	2:G3:115:ASN:HD21	1.83	0.44
2:C3:302:ALA:C	2:C3:303:ARG:HD3	2.43	0.44
2:D3:91:ARG:O	2:D3:110:ARG:NH2	2.50	0.44
2:D3:228:LEU:O	2:D3:232:VAL:HG23	2.17	0.44
2:E3:87:GLN:NE2	2:E3:88:MET:HG2	2.32	0.44
2:E3:302:ALA:C	2:E3:303:ARG:HD3	2.43	0.44
2:F3:50:MET:SD	2:F3:50:MET:O	2.76	0.44
2:F3:82:HIS:HB2	2:F3:115:ASN:HD21	1.83	0.44
2:F3:91:ARG:O	2:F3:110:ARG:NH2	2.50	0.44
2:F3:129:MET:HA	2:F3:132:VAL:HG12	1.99	0.44
2:A4:33:PRO:CA	2:A4:285:TYR:HB2	2.46	0.44
2:A4:159:GLU:HB2	2:A4:190:ASN:HD22	1.83	0.44
2:A4:228:LEU:O	2:A4:232:VAL:HG23	2.17	0.44
2:G4:135:VAL:HG12	2:G4:273:VAL:HG11	1.99	0.44
2:C4:77:TYR:CE2	2:C4:288:ILE:HA	2.48	0.44
2:E4:50:MET:SD	2:E4:50:MET:O	2.76	0.44
2:E4:302:ALA:C	2:E4:303:ARG:HD3	2.43	0.44
2:F4:15:GLN:HG2	2:F4:120:GLU:OE2	2.18	0.44
2:F4:50:MET:SD	2:F4:50:MET:O	2.76	0.44
1:B1:75:GLN:NE2	1:b1:399:ARG:HH11	2.15	0.43
1:B2:76:LEU:CD1	1:B2:368:VAL:HG11	2.46	0.43
1:b3:77:HIS:O	1:b3:81:ILE:HG12	2.17	0.43
1:b3:325:LEU:HD12	1:b3:326:GLY:N	2.33	0.43
1:b3:395:TYR:HB3	1:b3:399:ARG:HH12	1.82	0.43
1:B4:265:GLN:CG	1:b4:259:LYS:HZ1	2.31	0.43
1:b4:374:SER:OG	1:B5:360:ARG:CZ	2.65	0.43
1:B5:380:MET:HG2	1:B5:384:THR:CG2	2.48	0.43
1:b5:325:LEU:HD12	1:b5:326:GLY:N	2.33	0.43
2:A0:91:ARG:O	2:A0:110:ARG:NH2	2.50	0.43
2:G0:53:TYR:CG	2:C0:78:VAL:HG22	2.53	0.43
2:G0:159:GLU:HB2	2:G0:190:ASN:HD22	1.83	0.43
2:D0:282:LEU:O	2:D0:327:MET:HA	2.17	0.43
2:E0:129:MET:HA	2:E0:132:VAL:HG12	1.99	0.43
2:E0:302:ALA:C	2:E0:303:ARG:HD3	2.43	0.43
2:C1:218:LEU:HB3	2:C1:245:TYR:HD1	1.83	0.43
2:D1:302:ALA:C	2:D1:303:ARG:HD3	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F1:91:ARG:O	2:F1:110:ARG:NH2	2.50	0.43
2:F1:308:TRP:HZ3	2:F1:310:THR:OG1	2.00	0.43
2:A2:285:TYR:HD2	2:A2:302:ALA:HA	1.81	0.43
2:C2:218:LEU:HB3	2:C2:245:TYR:HD1	1.83	0.43
2:D2:159:GLU:HB2	2:D2:190:ASN:HD22	1.83	0.43
2:D2:163:THR:HB	2:D2:339:GLN:NE2	2.25	0.43
2:D2:218:LEU:HB3	2:D2:245:TYR:HD1	1.82	0.43
2:E2:15:GLN:HG2	2:E2:120:GLU:OE2	2.18	0.43
2:E2:82:HIS:HB2	2:E2:115:ASN:HD21	1.83	0.43
2:F2:285:TYR:HA	2:F2:324:ALA:O	2.18	0.43
2:G3:135:VAL:HG12	2:G3:273:VAL:HG11	1.99	0.43
2:G3:159:GLU:HB2	2:G3:190:ASN:HD22	1.83	0.43
2:C3:50:MET:SD	2:C3:50:MET:O	2.76	0.43
2:E3:129:MET:HA	2:E3:132:VAL:HG12	1.99	0.43
2:F3:229:GLU:C	2:F3:233:LYS:HZ3	2.26	0.43
2:F3:285:TYR:HD2	2:F3:302:ALA:HA	1.81	0.43
2:F3:302:ALA:C	2:F3:303:ARG:HD3	2.43	0.43
1:B:352:SER:O	1:B:355:GLU:HG2	2.18	0.43
1:B2:197:ASP:OD1	1:B2:197:ASP:N	2.50	0.43
1:b2:76:LEU:CD1	1:b2:368:VAL:HG11	2.46	0.43
1:B3:475:TYR:HH	1:B3:490:PHE:HE2	1.66	0.43
1:b3:185:ASP:N	1:b3:185:ASP:OD1	2.47	0.43
1:B4:91:ARG:NH2	1:B4:105:ARG:HA	2.30	0.43
1:B4:207:SER:HB2	1:B4:217:GLN:HB3	1.98	0.43
1:b4:197:ASP:OD1	1:b4:197:ASP:N	2.50	0.43
1:b4:352:SER:O	1:b4:355:GLU:HG2	2.19	0.43
1:B5:91:ARG:NH2	1:B5:105:ARG:HA	2.30	0.43
1:B5:325:LEU:HD12	1:B5:326:GLY:N	2.33	0.43
1:b5:352:SER:O	1:b5:355:GLU:HG2	2.18	0.43
2:A0:291:ALA:H	2:D1:316:ARG:HH12	1.65	0.43
2:G0:285:TYR:OH	2:G0:303:ARG:NH2	2.52	0.43
2:D0:15:GLN:HG2	2:D0:120:GLU:OE2	2.18	0.43
2:D0:129:MET:HA	2:D0:132:VAL:HG12	1.99	0.43
2:D0:308:TRP:HZ3	2:D0:310:THR:OG1	2.00	0.43
2:F0:14:GLU:HB2	2:F0:16:LYS:HZ3	1.83	0.43
2:F0:50:MET:SD	2:F0:50:MET:O	2.76	0.43
2:F0:218:LEU:HB3	2:F0:245:TYR:HD1	1.82	0.43
2:E1:135:VAL:HG12	2:E1:273:VAL:HG11	1.99	0.43
2:E1:285:TYR:HA	2:E1:324:ALA:O	2.18	0.43
2:A2:50:MET:SD	2:A2:50:MET:O	2.76	0.43
2:A2:218:LEU:HB3	2:A2:245:TYR:HD1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G2:53:TYR:CG	2:C2:78:VAL:HG22	2.53	0.43
2:C2:308:TRP:HZ3	2:C2:310:THR:OG1	2.00	0.43
2:D2:50:MET:SD	2:D2:50:MET:O	2.76	0.43
2:D2:308:TRP:HZ3	2:D2:310:THR:OG1	2.00	0.43
2:E2:8:GLN:HG2	2:E2:9:LEU:HD23	2.01	0.43
2:F2:50:MET:SD	2:F2:50:MET:O	2.76	0.43
2:A3:285:TYR:HD2	2:A3:302:ALA:HA	1.81	0.43
2:G3:229:GLU:C	2:G3:233:LYS:HZ3	2.26	0.43
2:G3:264:LYS:HD2	2:G3:265:ASN:O	2.17	0.43
2:G3:285:TYR:HA	2:G3:324:ALA:O	2.19	0.43
2:C3:228:LEU:O	2:C3:232:VAL:HG23	2.17	0.43
2:D3:159:GLU:HB2	2:D3:190:ASN:HD22	1.83	0.43
2:D3:276:ASN:HB2	2:E3:263:LYS:NZ	2.33	0.43
2:E3:15:GLN:HG2	2:E3:120:GLU:OE2	2.18	0.43
2:E3:91:ARG:O	2:E3:110:ARG:NH2	2.50	0.43
2:E3:218:LEU:HB3	2:E3:245:TYR:HD1	1.83	0.43
2:F3:15:GLN:HG2	2:F3:120:GLU:OE2	2.18	0.43
2:F3:228:LEU:O	2:F3:232:VAL:HG23	2.17	0.43
2:A4:8:GLN:HG2	2:A4:9:LEU:HD23	2.01	0.43
2:G4:229:GLU:C	2:G4:233:LYS:HZ3	2.25	0.43
2:C4:82:HIS:HB2	2:C4:115:ASN:HD21	1.83	0.43
2:D4:308:TRP:HZ3	2:D4:310:THR:OG1	2.00	0.43
1:b:374:SER:HB2	1:B1:361:TYR:HA	2.01	0.43
1:B2:461:VAL:HG11	1:b2:462:GLN:OE1	2.18	0.43
1:b2:197:ASP:OD1	1:b2:197:ASP:N	2.50	0.43
1:B3:114:ALA:O	1:B3:117:GLU:HG3	2.19	0.43
1:b3:374:SER:HB2	1:B4:360:ARG:O	2.17	0.43
1:B4:194:GLN:HB3	1:B4:221:TRP:HH2	1.82	0.43
1:B4:325:LEU:HD12	1:B4:326:GLY:N	2.33	0.43
1:b4:461:VAL:HG11	1:B5:462:GLN:OE1	2.18	0.43
1:B5:75:GLN:NE2	1:b5:399:ARG:HH11	2.17	0.43
2:A0:79:LYS:HB2	2:A0:320:MET:CE	2.45	0.43
2:G0:30:GLU:HA	2:C0:91:ARG:HH12	1.83	0.43
2:C0:285:TYR:HA	2:C0:324:ALA:O	2.19	0.43
2:D0:77:TYR:CD2	2:D0:324:ALA:HB2	2.49	0.43
2:D0:215:LYS:HB3	2:D0:215:LYS:HE2	1.79	0.43
2:D0:285:TYR:HA	2:D0:324:ALA:O	2.18	0.43
2:D0:316:ARG:NH1	2:A4:291:ALA:N	2.67	0.43
2:F0:15:GLN:HG2	2:F0:120:GLU:OE2	2.18	0.43
2:A1:15:GLN:HG2	2:A1:120:GLU:OE2	2.18	0.43
2:A1:159:GLU:HB2	2:A1:190:ASN:HD22	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:227:GLU:O	2:A1:230:THR:OG1	2.26	0.43
2:A1:285:TYR:OH	2:A1:303:ARG:NH2	2.52	0.43
2:C1:15:GLN:HG2	2:C1:120:GLU:OE2	2.18	0.43
2:C1:228:LEU:O	2:C1:232:VAL:HG23	2.17	0.43
2:D1:159:GLU:HB2	2:D1:190:ASN:HD22	1.83	0.43
2:F1:82:HIS:HB2	2:F1:115:ASN:HD21	1.83	0.43
2:F1:302:ALA:C	2:F1:303:ARG:HD3	2.43	0.43
2:G2:15:GLN:HG2	2:G2:120:GLU:OE2	2.18	0.43
2:G2:64:ARG:H	2:G2:66:ARG:NH1	2.11	0.43
2:G2:82:HIS:HB2	2:G2:115:ASN:HD21	1.83	0.43
2:F2:8:GLN:HG2	2:F2:9:LEU:HD23	2.00	0.43
2:A3:34:PHE:HB3	2:A3:36:THR:HG22	1.98	0.43
2:A3:82:HIS:HB2	2:A3:115:ASN:HD21	1.83	0.43
2:A3:229:GLU:C	2:A3:233:LYS:HZ3	2.26	0.43
2:A3:264:LYS:HD2	2:A3:265:ASN:O	2.17	0.43
2:A3:285:TYR:OH	2:A3:303:ARG:NH2	2.52	0.43
2:A3:291:ALA:N	2:D4:316:ARG:NH1	2.67	0.43
2:G3:309:VAL:HG22	2:G3:317:GLU:HB3	2.01	0.43
2:F3:64:ARG:H	2:F3:66:ARG:NH1	2.11	0.43
2:F3:218:LEU:HB3	2:F3:245:TYR:HD1	1.82	0.43
2:A4:285:TYR:OH	2:A4:303:ARG:NH2	2.52	0.43
2:A4:309:VAL:HG22	2:A4:317:GLU:HB3	2.01	0.43
2:G4:227:GLU:OE1	2:G4:227:GLU:N	2.44	0.43
2:G4:309:VAL:HG22	2:G4:317:GLU:HB3	2.01	0.43
2:C4:181:THR:HG21	2:C4:217:LYS:HE3	2.01	0.43
1:B:361:TYR:HA	1:b5:374:SER:HB2	2.01	0.43
1:B:462:GLN:OE1	1:b5:461:VAL:HG11	2.19	0.43
1:b:114:ALA:O	1:b:117:GLU:HG3	2.19	0.43
1:b:374:SER:HB2	1:B1:360:ARG:O	2.18	0.43
1:B1:209:ASP:O	1:B1:215:MET:HE3	2.18	0.43
1:B1:352:SER:O	1:B1:355:GLU:HG2	2.18	0.43
1:B1:461:VAL:HG21	1:b1:462:GLN:NE2	2.34	0.43
1:b1:114:ALA:O	1:b1:117:GLU:HG3	2.19	0.43
1:B2:325:LEU:HD12	1:B2:326:GLY:N	2.33	0.43
1:b2:114:ALA:O	1:b2:117:GLU:HG3	2.19	0.43
1:b2:209:ASP:O	1:b2:215:MET:HE3	2.18	0.43
1:b2:325:LEU:HD12	1:b2:326:GLY:N	2.33	0.43
1:b3:114:ALA:O	1:b3:117:GLU:HG3	2.19	0.43
1:B4:265:GLN:HG3	1:b4:259:LYS:HZ1	1.84	0.43
1:b4:87:ARG:HB3	1:b4:448:ILE:HB	2.00	0.43
1:b4:209:ASP:O	1:b4:215:MET:HE3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:209:ASP:O	1:B5:215:MET:HE3	2.18	0.43
1:B5:374:SER:HB2	1:b5:360:ARG:O	2.17	0.43
1:b5:383:SER:HA	1:b5:386:ARG:HD3	2.00	0.43
2:A0:50:MET:SD	2:A0:50:MET:O	2.76	0.43
2:A0:285:TYR:HA	2:A0:324:ALA:O	2.18	0.43
2:C0:8:GLN:HG2	2:C0:9:LEU:HD23	2.01	0.43
2:C0:229:GLU:C	2:C0:233:LYS:HZ3	2.26	0.43
2:D0:50:MET:O	2:D0:50:MET:SD	2.76	0.43
2:G1:50:MET:SD	2:G1:50:MET:O	2.76	0.43
2:G1:132:VAL:HG22	2:G1:136:LEU:HD12	2.01	0.43
2:E1:8:GLN:HG2	2:E1:9:LEU:HD23	2.01	0.43
2:E1:104:PRO:HA	2:E1:107:ARG:CG	2.48	0.43
2:E1:302:ALA:C	2:E1:303:ARG:HD3	2.43	0.43
2:E1:309:VAL:HG22	2:E1:317:GLU:HB3	2.01	0.43
2:F1:8:GLN:HG2	2:F1:9:LEU:HD23	2.01	0.43
2:F1:15:GLN:HG2	2:F1:120:GLU:OE2	2.18	0.43
2:C2:135:VAL:HG12	2:C2:273:VAL:HG11	1.99	0.43
2:C2:285:TYR:OH	2:C2:303:ARG:NH2	2.52	0.43
2:E2:285:TYR:HA	2:E2:324:ALA:O	2.18	0.43
2:F2:82:HIS:HB2	2:F2:115:ASN:HD21	1.83	0.43
2:A3:8:GLN:HG2	2:A3:9:LEU:HD23	2.01	0.43
2:A3:228:LEU:O	2:A3:232:VAL:HG23	2.17	0.43
2:A3:309:VAL:HG22	2:A3:317:GLU:HB3	2.01	0.43
2:C3:8:GLN:HG2	2:C3:9:LEU:HD23	2.01	0.43
2:C3:33:PRO:CA	2:C3:285:TYR:HB2	2.46	0.43
2:D3:218:LEU:HB3	2:D3:245:TYR:HD1	1.82	0.43
2:E3:8:GLN:HG2	2:E3:9:LEU:HD23	2.01	0.43
2:A4:285:TYR:HA	2:A4:324:ALA:O	2.18	0.43
2:C4:104:PRO:HA	2:C4:107:ARG:CG	2.48	0.43
2:C4:217:LYS:CE	2:D4:220:THR:HG21	2.48	0.43
2:C4:285:TYR:HA	2:C4:324:ALA:O	2.19	0.43
2:C4:309:VAL:HG22	2:C4:317:GLU:HB3	2.01	0.43
2:D4:285:TYR:OH	2:D4:303:ARG:NH2	2.52	0.43
2:E4:218:LEU:HB3	2:E4:245:TYR:HD1	1.83	0.43
1:B:209:ASP:O	1:B:215:MET:HE3	2.18	0.43
1:B1:488:GLU:OE1	1:b1:474:THR:HG21	2.18	0.43
1:b1:361:TYR:CD2	1:b1:362:ILE:HG13	2.51	0.43
1:B3:75:GLN:NE2	1:b3:399:ARG:HH11	2.17	0.43
1:B3:265:GLN:CG	1:b3:259:LYS:HZ1	2.30	0.43
1:B3:380:MET:HG2	1:B3:384:THR:CG2	2.48	0.43
1:B3:492:GLN:HG3	1:B3:496:GLU:OE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b3:359:LEU:HB2	1:b3:370:TYR:CD2	2.52	0.43
1:B4:77:HIS:O	1:B4:81:ILE:HG12	2.17	0.43
1:b4:153:VAL:HB	1:b4:234:ILE:HB	2.01	0.43
1:b5:77:HIS:O	1:b5:81:ILE:HG12	2.17	0.43
1:b5:380:MET:HG2	1:b5:384:THR:CG2	2.48	0.43
2:A0:240:SER:HB3	2:F0:194:VAL:CG2	2.47	0.43
2:G0:50:MET:SD	2:G0:50:MET:O	2.76	0.43
2:F0:285:TYR:OH	2:F0:303:ARG:NH2	2.52	0.43
2:A1:14:GLU:HB2	2:A1:16:LYS:HZ1	1.82	0.43
2:A1:82:HIS:HB2	2:A1:115:ASN:HD21	1.82	0.43
2:A1:302:ALA:C	2:A1:303:ARG:HD3	2.43	0.43
2:G1:218:LEU:HB3	2:G1:245:TYR:HD1	1.82	0.43
2:C1:285:TYR:HA	2:C1:324:ALA:O	2.18	0.43
2:C1:302:ALA:C	2:C1:303:ARG:HD3	2.43	0.43
2:C1:309:VAL:HG22	2:C1:317:GLU:HB3	2.01	0.43
2:E1:82:HIS:HB2	2:E1:115:ASN:HD21	1.83	0.43
2:F1:159:GLU:HB2	2:F1:190:ASN:HD22	1.83	0.43
2:F1:285:TYR:HD2	2:F1:302:ALA:HA	1.81	0.43
2:A2:228:LEU:O	2:A2:232:VAL:HG23	2.17	0.43
2:G2:132:VAL:HG22	2:G2:136:LEU:HD12	2.01	0.43
2:C2:285:TYR:HA	2:C2:324:ALA:O	2.18	0.43
2:F2:218:LEU:HB3	2:F2:245:TYR:HD1	1.82	0.43
2:F2:313:ASP:HB3	2:F2:314:PRO:HD3	2.01	0.43
2:G3:227:GLU:OE1	2:G3:227:GLU:N	2.44	0.43
2:C3:104:PRO:HA	2:C3:107:ARG:CG	2.48	0.43
2:C3:285:TYR:OH	2:C3:303:ARG:NH2	2.52	0.43
2:C3:309:VAL:HG22	2:C3:317:GLU:HB3	2.01	0.43
2:D3:50:MET:O	2:D3:50:MET:SD	2.76	0.43
2:D3:285:TYR:OH	2:D3:303:ARG:NH2	2.52	0.43
2:D3:302:ALA:C	2:D3:303:ARG:HD3	2.43	0.43
2:E3:50:MET:SD	2:E3:50:MET:O	2.76	0.43
2:F3:285:TYR:OH	2:F3:303:ARG:NH2	2.52	0.43
2:A4:50:MET:O	2:A4:50:MET:SD	2.76	0.43
2:G4:30:GLU:HA	2:C4:91:ARG:HH12	1.83	0.43
2:G4:82:HIS:HB2	2:G4:115:ASN:HD21	1.83	0.43
2:D4:15:GLN:HG2	2:D4:120:GLU:OE2	2.18	0.43
2:E4:82:HIS:HB2	2:E4:115:ASN:HD21	1.83	0.43
2:E4:132:VAL:HG22	2:E4:136:LEU:HD12	2.01	0.43
2:F4:181:THR:HG21	2:F4:217:LYS:HE3	2.01	0.43
2:F4:285:TYR:OH	2:F4:303:ARG:NH2	2.52	0.43
1:B:393:TRP:O	1:B:397:MET:HG2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:209:ASP:O	1:b:215:MET:HE3	2.18	0.43
1:B1:197:ASP:OD1	1:B1:197:ASP:N	2.50	0.43
1:B1:459:LYS:HE3	1:B1:459:LYS:CA	2.49	0.43
1:b1:395:TYR:HB3	1:b1:399:ARG:HH12	1.82	0.43
1:B2:72:ASN:OD1	1:b2:365:GLY:HA2	2.19	0.43
1:B2:114:ALA:O	1:B2:117:GLU:HG3	2.19	0.43
1:b2:492:GLN:HG3	1:b2:496:GLU:OE2	2.19	0.43
1:b3:352:SER:O	1:b3:355:GLU:HG2	2.18	0.43
1:b3:359:LEU:HD12	1:b3:360:ARG:N	2.34	0.43
1:B4:209:ASP:O	1:B4:215:MET:HE3	2.18	0.43
1:b4:359:LEU:HD12	1:b4:360:ARG:N	2.34	0.43
1:B5:383:SER:HA	1:B5:386:ARG:HD3	2.00	0.43
1:b5:87:ARG:HB3	1:b5:448:ILE:HB	2.01	0.43
1:b5:395:TYR:HB3	1:b5:399:ARG:HH12	1.82	0.43
2:A0:159:GLU:HB2	2:A0:190:ASN:HD22	1.83	0.43
2:A0:215:LYS:HE2	2:A0:215:LYS:HB3	1.79	0.43
2:A0:309:VAL:HG22	2:A0:317:GLU:HB3	2.01	0.43
2:C0:50:MET:SD	2:C0:50:MET:O	2.76	0.43
2:C0:104:PRO:HA	2:C0:107:ARG:CG	2.48	0.43
2:E0:50:MET:SD	2:E0:50:MET:O	2.76	0.43
2:E0:309:VAL:HG22	2:E0:317:GLU:HB3	2.01	0.43
2:F0:132:VAL:HG22	2:F0:136:LEU:HD12	2.01	0.43
2:F0:302:ALA:C	2:F0:303:ARG:HD3	2.43	0.43
2:A1:129:MET:HA	2:A1:132:VAL:HG12	1.99	0.43
2:C1:8:GLN:HG2	2:C1:9:LEU:HD23	2.01	0.43
2:D1:15:GLN:HG2	2:D1:120:GLU:OE2	2.18	0.43
2:F1:132:VAL:HG22	2:F1:136:LEU:HD12	2.01	0.43
2:F1:309:VAL:HG22	2:F1:317:GLU:HB3	2.01	0.43
2:A2:291:ALA:N	2:D3:316:ARG:NH1	2.66	0.43
2:G2:201:ASP:HB2	2:G2:202:PRO:HD2	2.01	0.43
2:C2:227:GLU:O	2:C2:230:THR:OG1	2.26	0.43
2:C2:309:VAL:HG22	2:C2:317:GLU:HB3	2.01	0.43
2:D2:313:ASP:HB3	2:D2:314:PRO:HD3	2.01	0.43
2:F2:14:GLU:HB2	2:F2:16:LYS:HZ1	1.83	0.43
2:G3:215:LYS:HE2	2:G3:215:LYS:HB3	1.79	0.43
2:G3:302:ALA:C	2:G3:303:ARG:HD3	2.43	0.43
2:C3:217:LYS:CE	2:D3:220:THR:HG21	2.48	0.43
2:E3:132:VAL:HG22	2:E3:136:LEU:HD12	2.01	0.43
2:E3:285:TYR:OH	2:E3:303:ARG:NH2	2.52	0.43
2:F3:181:THR:HG21	2:F3:217:LYS:HE3	2.01	0.43
2:A4:15:GLN:HG2	2:A4:120:GLU:OE2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:276:ASN:HB2	2:G4:263:LYS:HZ3	1.83	0.43
2:A4:313:ASP:HB3	2:A4:314:PRO:HD3	2.01	0.43
2:G4:159:GLU:HB2	2:G4:190:ASN:HD22	1.83	0.43
2:D4:50:MET:O	2:D4:50:MET:SD	2.76	0.43
2:D4:309:VAL:HG22	2:D4:317:GLU:HB3	2.01	0.43
2:F4:309:VAL:HG22	2:F4:317:GLU:HB3	2.01	0.43
1:B:87:ARG:HB3	1:B:448:ILE:HB	2.00	0.43
1:B:197:ASP:OD1	1:B:197:ASP:N	2.50	0.43
1:B:334:MET:HE3	1:B:334:MET:HB3	1.96	0.43
1:B:360:ARG:CZ	1:b5:374:SER:OG	2.67	0.43
1:B:383:SER:HA	1:B:386:ARG:HD3	2.00	0.43
1:B:492:GLN:HG3	1:B:496:GLU:OE2	2.19	0.43
1:b:325:LEU:HD12	1:b:326:GLY:N	2.33	0.43
1:B1:325:LEU:HD12	1:B1:326:GLY:N	2.33	0.43
1:B1:486:TYR:O	1:B1:489:ILE:HG22	2.19	0.43
1:B2:359:LEU:HB2	1:B2:370:TYR:CD2	2.52	0.43
1:b3:265:GLN:HG3	1:B4:259:LYS:HZ1	1.84	0.43
1:B4:153:VAL:HB	1:B4:234:ILE:HB	2.01	0.43
1:B4:461:VAL:HG11	1:b4:462:GLN:OE1	2.17	0.43
1:b4:397:MET:HE1	1:b4:400:ARG:NH2	2.34	0.43
1:B5:153:VAL:HB	1:B5:234:ILE:HB	2.01	0.43
1:B5:352:SER:O	1:B5:355:GLU:HG2	2.19	0.43
1:B5:359:LEU:HD12	1:B5:360:ARG:N	2.34	0.43
1:B5:397:MET:HE1	1:B5:400:ARG:NH2	2.34	0.43
1:B5:492:GLN:HG3	1:B5:496:GLU:OE2	2.19	0.43
1:b5:87:ARG:O	1:b5:447:TRP:HA	2.17	0.43
1:b5:397:MET:HE1	1:b5:400:ARG:NH2	2.34	0.43
2:A0:302:ALA:C	2:A0:303:ARG:HD3	2.43	0.43
2:G0:302:ALA:C	2:G0:303:ARG:HD3	2.43	0.43
2:E0:285:TYR:HA	2:E0:324:ALA:O	2.18	0.43
2:F0:159:GLU:HB2	2:F0:190:ASN:HD22	1.83	0.43
2:D1:129:MET:HA	2:D1:132:VAL:HG12	1.99	0.43
2:F1:285:TYR:HA	2:F1:324:ALA:O	2.18	0.43
2:F1:313:ASP:HB3	2:F1:314:PRO:HD3	2.01	0.43
2:A2:313:ASP:HB3	2:A2:314:PRO:HD3	2.01	0.43
2:C2:64:ARG:H	2:C2:66:ARG:NH1	2.11	0.43
2:E2:201:ASP:HB2	2:E2:202:PRO:HD2	2.01	0.43
2:E2:285:TYR:OH	2:E2:303:ARG:NH2	2.52	0.43
2:A3:15:GLN:HG2	2:A3:120:GLU:OE2	2.18	0.43
2:C3:181:THR:HG21	2:C3:217:LYS:HE3	2.01	0.43
2:D3:309:VAL:HG22	2:D3:317:GLU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F3:8:GLN:HG2	2:F3:9:LEU:HD23	2.01	0.43
2:G4:285:TYR:OH	2:G4:303:ARG:NH2	2.52	0.43
2:G4:285:TYR:HA	2:G4:324:ALA:O	2.18	0.43
2:G4:302:ALA:C	2:G4:303:ARG:HD3	2.43	0.43
2:C4:8:GLN:HG2	2:C4:9:LEU:HD23	2.01	0.43
2:C4:64:ARG:H	2:C4:66:ARG:NH1	2.11	0.43
2:C4:132:VAL:HG22	2:C4:136:LEU:HD12	2.01	0.43
2:C4:285:TYR:OH	2:C4:303:ARG:NH2	2.52	0.43
2:E4:8:GLN:HG2	2:E4:9:LEU:HD23	2.00	0.43
2:E4:285:TYR:HA	2:E4:324:ALA:O	2.18	0.43
1:b:46:ASP:OD1	1:b:47:ALA:N	2.52	0.43
1:b:368:VAL:HG12	1:b:396:PHE:CZ	2.46	0.43
1:b:436:GLN:H	1:b:436:GLN:HG2	1.69	0.43
1:B1:46:ASP:OD1	1:B1:47:ALA:N	2.52	0.43
1:B1:114:ALA:O	1:B1:117:GLU:HG3	2.19	0.43
1:b1:46:ASP:OD1	1:b1:47:ALA:N	2.52	0.43
1:B2:75:GLN:NE2	1:b2:399:ARG:HH11	2.17	0.43
1:b2:359:LEU:HD12	1:b2:360:ARG:N	2.34	0.43
1:b3:380:MET:HG2	1:b3:384:THR:CG2	2.48	0.43
1:B4:46:ASP:OD1	1:B4:47:ALA:N	2.52	0.43
1:B4:397:MET:HE1	1:B4:400:ARG:NH2	2.34	0.43
1:b4:325:LEU:HD12	1:b4:326:GLY:N	2.33	0.43
1:b4:380:MET:HG2	1:b4:384:THR:CG2	2.48	0.43
1:B5:486:TYR:O	1:B5:489:ILE:HG22	2.19	0.43
1:b5:91:ARG:NH2	1:b5:105:ARG:HA	2.30	0.43
1:b5:436:GLN:HA	1:b5:439:ARG:HE	1.84	0.43
2:C0:73:PHE:HB2	2:C0:326:LEU:HD21	2.01	0.43
2:C0:132:VAL:HG22	2:C0:136:LEU:HD12	2.01	0.43
2:E0:201:ASP:HB2	2:E0:202:PRO:HD2	2.01	0.43
2:F0:73:PHE:HB2	2:F0:326:LEU:HD21	2.01	0.43
2:F0:215:LYS:HB3	2:F0:215:LYS:HE2	1.79	0.43
2:F0:309:VAL:HG22	2:F0:317:GLU:HB3	2.01	0.43
2:A1:64:ARG:H	2:A1:66:ARG:NH1	2.11	0.43
2:A1:201:ASP:HB2	2:A1:202:PRO:HD2	2.01	0.43
2:A1:285:TYR:HD2	2:A1:302:ALA:HA	1.81	0.43
2:C1:129:MET:HA	2:C1:132:VAL:HG12	1.99	0.43
2:C1:159:GLU:HB2	2:C1:190:ASN:HD22	1.83	0.43
2:D1:285:TYR:HA	2:D1:324:ALA:O	2.18	0.43
2:F1:50:MET:SD	2:F1:50:MET:O	2.76	0.43
2:A2:8:GLN:HG2	2:A2:9:LEU:HD23	2.01	0.43
2:A2:309:VAL:HG22	2:A2:317:GLU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:8:GLN:HG2	2:C2:9:LEU:HD23	2.01	0.43
2:C2:82:HIS:HB2	2:C2:115:ASN:HD21	1.83	0.43
2:D2:29:ARG:HB2	2:D2:280:ARG:HH22	1.84	0.43
2:D2:225:ASN:HA	2:E2:242:LYS:HZ2	1.80	0.43
2:D2:285:TYR:HA	2:D2:324:ALA:O	2.18	0.43
2:E2:218:LEU:HB3	2:E2:245:TYR:HD1	1.82	0.43
2:F2:306:LYS:HZ2	2:F2:308:TRP:CD1	2.37	0.43
2:A3:50:MET:SD	2:A3:50:MET:O	2.76	0.43
2:A3:201:ASP:HB2	2:A3:202:PRO:HD2	2.01	0.43
2:E3:181:THR:HG21	2:E3:217:LYS:HE3	2.01	0.43
2:E3:201:ASP:HB2	2:E3:202:PRO:HD2	2.01	0.43
2:G4:53:TYR:CG	2:C4:78:VAL:HG22	2.53	0.43
2:G4:313:ASP:HB3	2:G4:314:PRO:HD3	2.01	0.43
2:D4:159:GLU:HB2	2:D4:190:ASN:HD22	1.83	0.43
2:D4:313:ASP:HB3	2:D4:314:PRO:HD3	2.01	0.43
2:E4:159:GLU:HB2	2:E4:190:ASN:HD22	1.83	0.43
2:E4:201:ASP:HB2	2:E4:202:PRO:HD2	2.01	0.43
1:B:46:ASP:OD1	1:B:47:ALA:N	2.52	0.43
1:B:75:GLN:NE2	1:b:399:ARG:HH11	2.17	0.43
1:B:377:TYR:HE2	1:b:371:GLU:CD	2.26	0.43
1:B:397:MET:HE1	1:B:400:ARG:NH2	2.34	0.43
1:b1:163:ARG:HG2	1:b1:166:ARG:NH2	2.34	0.43
1:b1:334:MET:HE3	1:b1:334:MET:HB3	1.96	0.43
1:b1:359:LEU:HD12	1:b1:360:ARG:N	2.34	0.43
1:B2:180:PRO:HA	1:B2:219:TRP:CG	2.54	0.43
1:B2:359:LEU:HD12	1:B2:360:ARG:N	2.34	0.43
1:b2:376:ASN:CG	1:B3:360:ARG:HD3	2.44	0.43
1:B3:163:ARG:HG2	1:B3:166:ARG:NH2	2.34	0.43
1:B3:359:LEU:HD12	1:B3:360:ARG:N	2.34	0.43
1:B3:436:GLN:HA	1:B3:439:ARG:HE	1.84	0.43
1:b3:91:ARG:NH2	1:b3:105:ARG:HA	2.30	0.43
1:B4:114:ALA:O	1:B4:117:GLU:HG3	2.19	0.43
1:B4:163:ARG:HG2	1:B4:166:ARG:NH2	2.34	0.43
1:B4:436:GLN:HA	1:B4:439:ARG:HE	1.84	0.43
1:b4:375:ARG:O	1:b4:376:ASN:C	2.57	0.43
1:B5:180:PRO:HA	1:B5:219:TRP:CG	2.54	0.43
1:b5:46:ASP:OD1	1:b5:47:ALA:N	2.52	0.43
1:b5:486:TYR:O	1:b5:489:ILE:HG22	2.19	0.43
2:A0:8:GLN:HG2	2:A0:9:LEU:HD23	2.01	0.43
2:G0:29:ARG:HB2	2:G0:280:ARG:HH22	1.84	0.43
2:C0:309:VAL:HG22	2:C0:317:GLU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E0:181:THR:HG21	2:E0:217:LYS:HE3	2.01	0.43
2:C1:285:TYR:OH	2:C1:303:ARG:NH2	2.52	0.43
2:D1:82:HIS:HB2	2:D1:115:ASN:HD21	1.83	0.43
2:F1:77:TYR:CD2	2:F1:324:ALA:HB2	2.49	0.43
2:G2:29:ARG:HB2	2:G2:280:ARG:HH22	1.84	0.43
2:G2:285:TYR:HA	2:G2:324:ALA:O	2.18	0.43
2:C2:50:MET:O	2:C2:50:MET:SD	2.76	0.43
2:C2:302:ALA:C	2:C2:303:ARG:HD3	2.43	0.43
2:D2:285:TYR:OH	2:D2:303:ARG:NH2	2.52	0.43
2:D2:302:ALA:C	2:D2:303:ARG:HD3	2.43	0.43
2:E2:229:GLU:C	2:E2:233:LYS:HZ3	2.27	0.43
2:E2:313:ASP:HB3	2:E2:314:PRO:HD3	2.01	0.43
2:F2:29:ARG:HB2	2:F2:280:ARG:HH22	1.84	0.43
2:F2:84:VAL:HG11	2:F2:112:ILE:HG22	2.01	0.43
2:F2:132:VAL:HG22	2:F2:136:LEU:HD12	2.01	0.43
2:F2:285:TYR:OH	2:F2:303:ARG:NH2	2.52	0.43
2:A3:84:VAL:HG11	2:A3:112:ILE:HG22	2.01	0.43
2:A3:218:LEU:HB3	2:A3:245:TYR:HD1	1.82	0.43
2:C3:285:TYR:HA	2:C3:324:ALA:O	2.19	0.43
2:D3:33:PRO:HG2	2:E3:92:ARG:HH21	1.83	0.43
2:D3:181:THR:HG21	2:D3:217:LYS:HE3	2.01	0.43
2:C4:73:PHE:HB2	2:C4:326:LEU:HD21	2.01	0.43
2:E4:15:GLN:HG2	2:E4:120:GLU:OE2	2.18	0.43
1:B:111:VAL:HG12	1:B:425:VAL:HG21	2.01	0.43
1:B:114:ALA:O	1:B:117:GLU:HG3	2.19	0.43
1:b:352:SER:O	1:b:355:GLU:HG2	2.19	0.43
1:b:376:ASN:CG	1:B1:360:ARG:HD3	2.43	0.43
1:b:383:SER:HA	1:b:386:ARG:HD3	2.00	0.43
1:b:397:MET:HE1	1:b:400:ARG:NH2	2.34	0.43
1:b:436:GLN:HA	1:b:439:ARG:HE	1.84	0.43
1:B1:125:CYS:HB3	1:B1:163:ARG:NH2	2.34	0.43
1:B1:359:LEU:HD12	1:B1:360:ARG:N	2.34	0.43
1:b1:197:ASP:OD1	1:b1:197:ASP:N	2.50	0.43
1:B2:209:ASP:O	1:B2:215:MET:HE3	2.18	0.43
1:B3:209:ASP:O	1:B3:215:MET:HE3	2.18	0.43
1:b3:46:ASP:OD1	1:b3:47:ALA:N	2.52	0.43
1:b3:153:VAL:HB	1:b3:234:ILE:HB	2.01	0.43
1:b5:125:CYS:HB3	1:b5:163:ARG:NH2	2.34	0.43
2:A0:29:ARG:HB2	2:A0:280:ARG:HH22	1.84	0.43
2:A0:181:THR:HG21	2:A0:217:LYS:HE3	2.01	0.43
2:A0:201:ASP:HB2	2:A0:202:PRO:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:305:PRO:HA	2:A0:321:ILE:HD13	2.01	0.43
2:C0:181:THR:HG21	2:C0:217:LYS:HE3	2.01	0.43
2:D0:201:ASP:HB2	2:D0:202:PRO:HD2	2.01	0.43
2:E0:84:VAL:HG11	2:E0:112:ILE:HG22	2.01	0.43
2:F0:313:ASP:HB3	2:F0:314:PRO:HD3	2.01	0.43
2:A1:8:GLN:HG2	2:A1:9:LEU:HD23	2.01	0.43
2:A1:29:ARG:HB2	2:A1:280:ARG:HH22	1.84	0.43
2:G1:84:VAL:HG11	2:G1:112:ILE:HG22	2.01	0.43
2:G1:285:TYR:HA	2:G1:324:ALA:O	2.19	0.43
2:C1:73:PHE:HB2	2:C1:326:LEU:HD21	2.01	0.43
2:D1:73:PHE:HB2	2:D1:326:LEU:HD21	2.01	0.43
2:E1:181:THR:HG21	2:E1:217:LYS:HE3	2.01	0.43
2:F1:29:ARG:HB2	2:F1:280:ARG:HH22	1.84	0.43
2:F1:218:LEU:HB3	2:F1:245:TYR:HD1	1.82	0.43
2:A2:33:PRO:CA	2:A2:285:TYR:HB2	2.46	0.43
2:A2:285:TYR:OH	2:A2:303:ARG:NH2	2.52	0.43
2:C2:313:ASP:HB3	2:C2:314:PRO:HD3	2.01	0.43
2:D2:33:PRO:HG2	2:E2:92:ARG:HH21	1.84	0.43
2:D2:64:ARG:H	2:D2:66:ARG:NH1	2.11	0.43
2:E2:50:MET:SD	2:E2:50:MET:O	2.76	0.43
2:E2:302:ALA:C	2:E2:303:ARG:HD3	2.43	0.43
2:G3:8:GLN:HG2	2:G3:9:LEU:HD23	2.01	0.43
2:G3:30:GLU:HA	2:C3:91:ARG:HH12	1.83	0.43
2:D3:73:PHE:HB2	2:D3:326:LEU:HD21	2.01	0.43
2:D3:256:GLN:HA	2:D3:265:ASN:HA	2.01	0.43
2:E3:29:ARG:HB2	2:E3:280:ARG:HH22	1.84	0.43
2:E3:163:THR:HB	2:E3:339:GLN:NE2	2.25	0.43
2:F3:309:VAL:HG22	2:F3:317:GLU:HB3	2.01	0.43
2:D4:285:TYR:HA	2:D4:324:ALA:O	2.19	0.43
2:E4:285:TYR:HD2	2:E4:302:ALA:HA	1.81	0.43
2:E4:305:PRO:HA	2:E4:321:ILE:HD13	2.01	0.43
2:E4:309:VAL:HG22	2:E4:317:GLU:HB3	2.01	0.43
2:F4:33:PRO:CA	2:F4:285:TYR:HB2	2.46	0.43
1:B:180:PRO:HA	1:B:219:TRP:CG	2.54	0.42
1:B:359:LEU:HD12	1:B:360:ARG:N	2.34	0.42
1:b:125:CYS:HB3	1:b:163:ARG:NH2	2.34	0.42
1:b:180:PRO:HA	1:b:219:TRP:CG	2.54	0.42
1:b:380:MET:HG2	1:b:384:THR:CG2	2.48	0.42
1:b:492:GLN:HG3	1:b:496:GLU:OE2	2.19	0.42
1:B1:265:GLN:HG3	1:b1:259:LYS:NZ	2.34	0.42
1:b1:75:GLN:NE2	1:B2:399:ARG:HH11	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b1:378:ALA:C	1:b1:379:GLN:HG3	2.44	0.42
1:b1:436:GLN:HA	1:b1:439:ARG:HE	1.84	0.42
1:b1:475:TYR:HH	1:b1:490:PHE:HE2	1.67	0.42
1:B2:46:ASP:OD1	1:B2:47:ALA:N	2.52	0.42
1:B2:378:ALA:C	1:B2:379:GLN:HG3	2.44	0.42
1:B3:383:SER:HA	1:B3:386:ARG:HD3	2.00	0.42
1:B3:486:TYR:O	1:B3:489:ILE:HG22	2.19	0.42
1:B4:87:ARG:HB3	1:B4:448:ILE:HB	2.01	0.42
1:B5:46:ASP:OD1	1:B5:47:ALA:N	2.52	0.42
1:b5:111:VAL:HG12	1:b5:425:VAL:HG21	2.01	0.42
1:b5:153:VAL:HB	1:b5:234:ILE:HB	2.01	0.42
2:A0:84:VAL:HG11	2:A0:112:ILE:HG22	2.01	0.42
2:G0:201:ASP:HB2	2:G0:202:PRO:HD2	2.01	0.42
2:G0:309:VAL:HG22	2:G0:317:GLU:HB3	2.01	0.42
2:C0:205:TRP:CH2	2:C0:209:ARG:HD2	2.54	0.42
2:C0:225:ASN:O	2:D0:233:LYS:HD2	2.19	0.42
2:C0:302:ALA:C	2:C0:303:ARG:HD3	2.43	0.42
2:D0:33:PRO:HG2	2:E0:92:ARG:HH21	1.83	0.42
2:D0:132:VAL:HG22	2:D0:136:LEU:HD12	2.01	0.42
2:E0:8:GLN:HG2	2:E0:9:LEU:HD23	2.01	0.42
2:E0:132:VAL:HG22	2:E0:136:LEU:HD12	2.01	0.42
2:F0:285:TYR:HA	2:F0:324:ALA:O	2.18	0.42
2:A1:50:MET:O	2:A1:50:MET:SD	2.76	0.42
2:A1:73:PHE:HB2	2:A1:326:LEU:HD21	2.01	0.42
2:A1:285:TYR:HA	2:A1:324:ALA:O	2.18	0.42
2:G1:313:ASP:HB3	2:G1:314:PRO:HD3	2.01	0.42
2:C1:313:ASP:HB3	2:C1:314:PRO:HD3	2.01	0.42
2:D1:8:GLN:HG2	2:D1:9:LEU:HD23	2.01	0.42
2:D1:29:ARG:HB2	2:D1:280:ARG:HH22	1.84	0.42
2:D1:215:LYS:HB3	2:D1:215:LYS:HE2	1.79	0.42
2:D1:218:LEU:HB3	2:D1:245:TYR:HD1	1.83	0.42
2:D1:256:GLN:HA	2:D1:265:ASN:HA	2.01	0.42
2:D1:285:TYR:OH	2:D1:303:ARG:NH2	2.52	0.42
2:E1:56:PRO:HA	2:F1:79:LYS:HZ2	1.84	0.42
2:G2:309:VAL:HG22	2:G2:317:GLU:HB3	2.01	0.42
2:C2:181:THR:HG21	2:C2:217:LYS:HE3	2.01	0.42
2:F2:159:GLU:HB2	2:F2:190:ASN:HD22	1.83	0.42
2:A3:77:TYR:CD2	2:A3:324:ALA:HB2	2.49	0.42
2:C3:205:TRP:CH2	2:C3:209:ARG:HD2	2.54	0.42
2:D3:313:ASP:HB3	2:D3:314:PRO:HD3	2.01	0.42
2:E3:73:PHE:HB2	2:E3:326:LEU:HD21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E3:84:VAL:HG11	2:E3:112:ILE:HG22	2.01	0.42
2:E3:229:GLU:C	2:E3:233:LYS:HZ3	2.27	0.42
2:E3:285:TYR:HD2	2:E3:302:ALA:HA	1.81	0.42
2:E3:285:TYR:HA	2:E3:324:ALA:O	2.19	0.42
2:F3:305:PRO:HA	2:F3:321:ILE:HD13	2.01	0.42
2:F3:313:ASP:HB3	2:F3:314:PRO:HD3	2.01	0.42
2:A4:302:ALA:C	2:A4:303:ARG:HD3	2.43	0.42
1:B:265:GLN:HG3	1:b:259:LYS:NZ	2.34	0.42
1:b:72:ASN:OD1	1:B1:365:GLY:HA2	2.20	0.42
1:b:111:VAL:HG12	1:b:425:VAL:HG21	2.01	0.42
1:b:486:TYR:O	1:b:489:ILE:HG22	2.19	0.42
1:B1:359:LEU:HB2	1:B1:370:TYR:CD2	2.52	0.42
1:B1:383:SER:HA	1:B1:386:ARG:HD3	2.00	0.42
1:b1:125:CYS:HB3	1:b1:163:ARG:NH2	2.34	0.42
1:b1:325:LEU:HD12	1:b1:326:GLY:N	2.33	0.42
1:b1:359:LEU:HB2	1:b1:370:TYR:CD2	2.52	0.42
1:b1:368:VAL:HG12	1:b1:396:PHE:CZ	2.46	0.42
1:b1:374:SER:HB2	1:B2:361:TYR:HA	2.01	0.42
1:b2:436:GLN:HA	1:b2:439:ARG:HE	1.84	0.42
1:B3:278:TYR:CE2	1:b3:274:VAL:HG21	2.54	0.42
1:B3:325:LEU:HD12	1:B3:326:GLY:N	2.33	0.42
1:b3:180:PRO:HA	1:b3:219:TRP:CG	2.54	0.42
1:B4:75:GLN:NE2	1:b4:399:ARG:HH11	2.17	0.42
1:b4:46:ASP:OD1	1:b4:47:ALA:N	2.52	0.42
1:b4:320:ALA:C	1:b4:322:PRO:HD2	2.45	0.42
1:b4:383:SER:HA	1:b4:386:ARG:HD3	2.00	0.42
1:B5:212:PRO:HG3	1:b5:187:ARG:HA	2.00	0.42
1:B5:436:GLN:H	1:B5:436:GLN:HG2	1.69	0.42
1:b5:114:ALA:O	1:b5:117:GLU:HG3	2.19	0.42
1:b5:197:ASP:OD1	1:b5:197:ASP:N	2.50	0.42
2:A0:291:ALA:N	2:D1:316:ARG:NH1	2.67	0.42
2:G0:181:THR:HG21	2:G0:217:LYS:HE3	2.01	0.42
2:C0:159:GLU:HB2	2:C0:190:ASN:HD22	1.83	0.42
2:C0:285:TYR:OH	2:C0:303:ARG:NH2	2.52	0.42
2:E0:218:LEU:HB3	2:E0:245:TYR:HD1	1.83	0.42
2:A1:305:PRO:HA	2:A1:321:ILE:HD13	2.01	0.42
2:A1:309:VAL:HG22	2:A1:317:GLU:HB3	2.01	0.42
2:E1:201:ASP:HB2	2:E1:202:PRO:HD2	2.01	0.42
2:E1:313:ASP:HB3	2:E1:314:PRO:HD3	2.01	0.42
2:F1:181:THR:O	2:F1:185:GLU:OE1	2.38	0.42
2:F1:201:ASP:HB2	2:F1:202:PRO:HD2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F1:285:TYR:OH	2:F1:303:ARG:NH2	2.52	0.42
2:A2:201:ASP:HB2	2:A2:202:PRO:HD2	2.01	0.42
2:G2:181:THR:HG21	2:G2:217:LYS:HE3	2.01	0.42
2:G2:262:VAL:HG22	2:G2:263:LYS:H	1.85	0.42
2:C2:29:ARG:HB2	2:C2:280:ARG:HH22	1.84	0.42
2:C2:225:ASN:O	2:D2:233:LYS:HD2	2.19	0.42
2:C2:229:GLU:C	2:C2:233:LYS:HZ3	2.27	0.42
2:D2:181:THR:O	2:D2:185:GLU:OE1	2.37	0.42
2:E2:309:VAL:HG22	2:E2:317:GLU:HB3	2.01	0.42
2:F2:305:PRO:HA	2:F2:321:ILE:HD13	2.01	0.42
2:A3:104:PRO:HA	2:A3:107:ARG:CG	2.48	0.42
2:A3:285:TYR:HA	2:A3:324:ALA:O	2.18	0.42
2:A3:305:PRO:HA	2:A3:321:ILE:HD13	2.01	0.42
2:G3:50:MET:SD	2:G3:50:MET:O	2.76	0.42
2:G3:201:ASP:HB2	2:G3:202:PRO:HD2	2.01	0.42
2:C3:225:ASN:O	2:D3:233:LYS:HD2	2.19	0.42
2:D3:29:ARG:HB2	2:D3:280:ARG:HH22	1.84	0.42
2:D3:205:TRP:CH2	2:D3:209:ARG:HD2	2.55	0.42
2:D3:285:TYR:HA	2:D3:324:ALA:O	2.18	0.42
2:E3:181:THR:O	2:E3:185:GLU:OE1	2.37	0.42
2:F3:285:TYR:HA	2:F3:324:ALA:O	2.18	0.42
2:A4:47:LEU:HD21	2:G4:260:ASN:O	2.19	0.42
2:A4:305:PRO:HA	2:A4:321:ILE:HD13	2.01	0.42
2:D4:163:THR:HB	2:D4:339:GLN:NE2	2.25	0.42
2:D4:201:ASP:HB2	2:D4:202:PRO:HD2	2.01	0.42
2:E4:64:ARG:H	2:E4:66:ARG:NH1	2.11	0.42
2:E4:205:TRP:CH2	2:E4:209:ARG:HD2	2.55	0.42
2:E4:285:TYR:OH	2:E4:303:ARG:NH2	2.52	0.42
2:F4:205:TRP:CH2	2:F4:209:ARG:HD2	2.55	0.42
2:F4:285:TYR:HA	2:F4:324:ALA:O	2.19	0.42
1:B:125:CYS:HB3	1:B:163:ARG:NH2	2.34	0.42
1:B:278:TYR:CE2	1:b:274:VAL:HG21	2.54	0.42
1:B:325:LEU:HD12	1:B:326:GLY:N	2.33	0.42
1:B:399:ARG:HH11	1:b5:75:GLN:NE2	2.17	0.42
1:b:86:PHE:HE2	1:b:408:ALA:HB2	1.85	0.42
1:b:163:ARG:HG2	1:b:166:ARG:NH2	2.34	0.42
1:b:359:LEU:HD12	1:b:360:ARG:N	2.34	0.42
1:B1:358:LEU:O	1:B1:361:TYR:HB3	2.20	0.42
1:B1:500:ARG:NE	1:B1:505:LEU:HB3	2.34	0.42
1:b1:180:PRO:HA	1:b1:219:TRP:CG	2.54	0.42
1:b1:408:ALA:HB1	1:b1:447:TRP:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b1:486:TYR:O	1:b1:489:ILE:HG22	2.19	0.42
1:B2:352:SER:O	1:B2:355:GLU:HG2	2.19	0.42
1:B2:474:THR:OG1	1:B2:477:LYS:HG2	2.20	0.42
1:b2:111:VAL:HG12	1:b2:425:VAL:HG21	2.01	0.42
1:b2:163:ARG:HG2	1:b2:166:ARG:NH2	2.34	0.42
1:b2:486:TYR:O	1:b2:489:ILE:HG22	2.19	0.42
1:B3:72:ASN:OD1	1:b3:365:GLY:HA2	2.19	0.42
1:B3:111:VAL:HG12	1:B3:425:VAL:HG21	2.01	0.42
1:B3:153:VAL:HB	1:B3:234:ILE:HB	2.01	0.42
1:b3:209:ASP:O	1:b3:215:MET:HE3	2.18	0.42
1:b3:397:MET:HE1	1:b3:400:ARG:NH2	2.34	0.42
1:b3:492:GLN:HG3	1:b3:496:GLU:OE2	2.19	0.42
1:B4:180:PRO:HA	1:B4:219:TRP:CG	2.54	0.42
1:B4:359:LEU:HB2	1:B4:370:TYR:CD2	2.52	0.42
1:b4:72:ASN:OD1	1:B5:365:GLY:HA2	2.19	0.42
1:b4:359:LEU:HB2	1:b4:370:TYR:CD2	2.52	0.42
1:B5:107:PHE:O	1:B5:111:VAL:HG13	2.20	0.42
1:b5:107:PHE:O	1:b5:111:VAL:HG13	2.20	0.42
2:A0:285:TYR:OH	2:A0:303:ARG:NH2	2.52	0.42
2:G0:285:TYR:HA	2:G0:324:ALA:O	2.19	0.42
2:C0:305:PRO:HA	2:C0:321:ILE:HD13	2.01	0.42
2:D0:73:PHE:HB2	2:D0:326:LEU:HD21	2.01	0.42
2:D0:181:THR:O	2:D0:185:GLU:OE1	2.38	0.42
2:D0:205:TRP:CH2	2:D0:209:ARG:HD2	2.54	0.42
2:D0:256:GLN:HA	2:D0:265:ASN:HA	2.01	0.42
2:D0:285:TYR:OH	2:D0:303:ARG:NH2	2.52	0.42
2:F0:8:GLN:HG2	2:F0:9:LEU:HD23	2.01	0.42
2:F0:29:ARG:HB2	2:F0:280:ARG:HH22	1.84	0.42
2:A1:181:THR:HG21	2:A1:217:LYS:HE3	2.01	0.42
2:A1:313:ASP:HB3	2:A1:314:PRO:HD3	2.01	0.42
2:G1:30:GLU:HA	2:C1:91:ARG:HH12	1.83	0.42
2:G1:256:GLN:HA	2:G1:265:ASN:HA	2.01	0.42
2:G1:285:TYR:OH	2:G1:303:ARG:NH2	2.52	0.42
2:C1:262:VAL:HG22	2:C1:263:LYS:H	1.85	0.42
2:D1:229:GLU:C	2:D1:233:LYS:HZ3	2.27	0.42
2:F1:84:VAL:HG11	2:F1:112:ILE:HG22	2.01	0.42
2:F1:227:GLU:O	2:F1:230:THR:OG1	2.26	0.42
2:A2:94:PRO:HG3	2:F2:283:ARG:HH22	1.85	0.42
2:G2:8:GLN:HG2	2:G2:9:LEU:HD23	2.01	0.42
2:G2:302:ALA:C	2:G2:303:ARG:HD3	2.43	0.42
2:C2:15:GLN:HG2	2:C2:120:GLU:OE2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E2:132:VAL:HG22	2:E2:136:LEU:HD12	2.01	0.42
2:F2:181:THR:O	2:F2:185:GLU:OE1	2.37	0.42
2:F2:262:VAL:HG22	2:F2:263:LYS:H	1.85	0.42
2:A3:132:VAL:HG22	2:A3:136:LEU:HD12	2.01	0.42
2:G3:132:VAL:HG22	2:G3:136:LEU:HD12	2.01	0.42
2:G3:181:THR:HG21	2:G3:217:LYS:HE3	2.01	0.42
2:G3:205:TRP:CH2	2:G3:209:ARG:HD2	2.54	0.42
2:E3:53:TYR:CB	2:F3:78:VAL:HG13	2.49	0.42
2:E3:305:PRO:HA	2:E3:321:ILE:HD13	2.02	0.42
2:F3:181:THR:O	2:F3:185:GLU:OE1	2.38	0.42
2:F3:256:GLN:HA	2:F3:265:ASN:HA	2.01	0.42
2:G4:132:VAL:HG22	2:G4:136:LEU:HD12	2.01	0.42
2:G4:221:ARG:NH1	2:F4:221:ARG:HD2	2.34	0.42
2:D4:33:PRO:CA	2:D4:285:TYR:HB2	2.46	0.42
2:D4:302:ALA:C	2:D4:303:ARG:HD3	2.43	0.42
2:E4:84:VAL:HG11	2:E4:112:ILE:HG22	2.01	0.42
2:F4:218:LEU:HB3	2:F4:245:TYR:HD1	1.83	0.42
2:F4:285:TYR:HD2	2:F4:302:ALA:HA	1.81	0.42
2:F4:313:ASP:HB3	2:F4:314:PRO:HD3	2.01	0.42
1:B:86:PHE:HE2	1:B:408:ALA:HB2	1.85	0.42
1:B:170:ARG:NH2	1:b:198:SER:O	2.41	0.42
1:B:179:ASN:HB2	1:B:183:THR:O	2.20	0.42
1:B:365:GLY:HA2	1:b5:72:ASN:OD1	2.19	0.42
1:B:408:ALA:HB1	1:B:447:TRP:CD2	2.54	0.42
1:b:179:ASN:HB2	1:b:183:THR:O	2.20	0.42
1:B1:86:PHE:HE2	1:B1:408:ALA:HB2	1.85	0.42
1:B1:378:ALA:C	1:B1:379:GLN:HG3	2.44	0.42
1:B2:163:ARG:HG2	1:B2:166:ARG:NH2	2.34	0.42
1:B2:492:GLN:HG3	1:B2:496:GLU:OE2	2.19	0.42
1:b2:87:ARG:HB3	1:b2:448:ILE:HB	2.00	0.42
1:B3:352:SER:O	1:B3:355:GLU:HG2	2.18	0.42
1:B3:358:LEU:O	1:B3:361:TYR:HB3	2.20	0.42
1:b3:75:GLN:NE2	1:B4:399:ARG:HH11	2.17	0.42
1:b3:486:TYR:O	1:b3:489:ILE:HG22	2.19	0.42
1:b4:436:GLN:HA	1:b4:439:ARG:HE	1.84	0.42
1:b4:474:THR:OG1	1:b4:477:LYS:HG2	2.20	0.42
1:B5:80:HIS:CG	1:B5:396:PHE:CD2	3.08	0.42
1:B5:125:CYS:HB3	1:B5:163:ARG:NH2	2.34	0.42
1:b5:163:ARG:HG2	1:b5:166:ARG:NH2	2.34	0.42
1:b5:209:ASP:O	1:b5:215:MET:HE3	2.18	0.42
1:b5:320:ALA:C	1:b5:322:PRO:HD2	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b5:475:TYR:HB3	1:b5:486:TYR:CD1	2.55	0.42
2:A0:94:PRO:HG3	2:F0:283:ARG:HH22	1.85	0.42
2:A0:205:TRP:CH2	2:A0:209:ARG:HD2	2.54	0.42
2:G0:15:GLN:HG2	2:G0:120:GLU:OE2	2.18	0.42
2:C0:55:SER:OG	2:D0:146:ALA:HB3	2.19	0.42
2:C0:313:ASP:HB3	2:C0:314:PRO:HD3	2.01	0.42
2:D0:262:VAL:HG22	2:D0:263:LYS:H	1.85	0.42
2:D0:309:VAL:HG22	2:D0:317:GLU:HB3	2.01	0.42
2:E0:256:GLN:HA	2:E0:265:ASN:HA	2.02	0.42
2:F0:64:ARG:H	2:F0:66:ARG:NH1	2.11	0.42
2:F0:201:ASP:HB2	2:F0:202:PRO:HD2	2.01	0.42
2:G1:15:GLN:HG2	2:G1:120:GLU:OE2	2.18	0.42
2:G1:181:THR:O	2:G1:185:GLU:OE1	2.37	0.42
2:C1:77:TYR:CD2	2:C1:324:ALA:HB2	2.49	0.42
2:C1:132:VAL:HG22	2:C1:136:LEU:HD12	2.01	0.42
2:D1:33:PRO:HG2	2:E1:92:ARG:HH21	1.84	0.42
2:D1:309:VAL:HG22	2:D1:317:GLU:HB3	2.01	0.42
2:E1:262:VAL:HG22	2:E1:263:LYS:H	1.85	0.42
2:A2:305:PRO:HA	2:A2:321:ILE:HD13	2.02	0.42
2:G2:84:VAL:HG11	2:G2:112:ILE:HG22	2.01	0.42
2:D2:181:THR:HG21	2:D2:217:LYS:HE3	2.01	0.42
2:G3:73:PHE:HB2	2:G3:326:LEU:HD21	2.01	0.42
2:C3:15:GLN:HG2	2:C3:120:GLU:OE2	2.18	0.42
2:C3:73:PHE:HB2	2:C3:326:LEU:HD21	2.01	0.42
2:C3:132:VAL:HG22	2:C3:136:LEU:HD12	2.01	0.42
2:D3:104:PRO:HA	2:D3:107:ARG:CG	2.48	0.42
2:D3:181:THR:O	2:D3:185:GLU:OE1	2.38	0.42
2:D3:201:ASP:HB2	2:D3:202:PRO:HD2	2.01	0.42
2:E3:256:GLN:HA	2:E3:265:ASN:HA	2.01	0.42
2:F3:73:PHE:HB2	2:F3:326:LEU:HD21	2.01	0.42
2:A4:205:TRP:CH2	2:A4:209:ARG:HD2	2.54	0.42
2:G4:73:PHE:HB2	2:G4:326:LEU:HD21	2.01	0.42
2:D4:8:GLN:HG2	2:D4:9:LEU:HD23	2.01	0.42
2:F4:302:ALA:C	2:F4:303:ARG:HD3	2.43	0.42
1:B:107:PHE:O	1:B:111:VAL:HG13	2.20	0.42
1:B:212:PRO:HG3	1:b:187:ARG:HA	2.01	0.42
1:B:378:ALA:C	1:B:379:GLN:HG3	2.44	0.42
1:B:474:THR:OG1	1:B:477:LYS:HG2	2.20	0.42
1:b:358:LEU:O	1:b:361:TYR:HB3	2.20	0.42
1:b:378:ALA:C	1:b:379:GLN:HG3	2.44	0.42
1:B1:87:ARG:HB3	1:B1:448:ILE:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:179:ASN:HB2	1:B1:183:THR:O	2.20	0.42
1:B1:436:GLN:HA	1:B1:439:ARG:HE	1.84	0.42
1:b1:50:LEU:HD23	1:b1:50:LEU:HA	1.88	0.42
1:b1:72:ASN:OD1	1:B2:365:GLY:HA2	2.18	0.42
1:b1:461:VAL:HG21	1:B2:462:GLN:NE2	2.35	0.42
1:B2:196:ASN:OD1	1:B2:199:GLY:N	2.53	0.42
1:B2:358:LEU:O	1:B2:361:TYR:HB3	2.20	0.42
1:b2:180:PRO:HA	1:b2:219:TRP:CG	2.54	0.42
1:b2:461:VAL:HG11	1:B3:462:GLN:OE1	2.19	0.42
1:b2:485:ASP:O	1:b2:488:GLU:HG3	2.20	0.42
1:B3:46:ASP:OD1	1:B3:47:ALA:N	2.52	0.42
1:B3:397:MET:HE1	1:B3:400:ARG:NH2	2.34	0.42
1:b3:111:VAL:HG12	1:b3:425:VAL:HG21	2.01	0.42
1:b3:125:CYS:HB3	1:b3:163:ARG:NH2	2.34	0.42
1:B4:80:HIS:CG	1:B4:396:PHE:CD2	3.08	0.42
1:B4:352:SER:O	1:B4:355:GLU:HG2	2.19	0.42
1:b4:114:ALA:O	1:b4:117:GLU:HG3	2.19	0.42
1:B5:111:VAL:HG12	1:B5:425:VAL:HG21	2.01	0.42
1:B5:163:ARG:HG2	1:B5:166:ARG:NH2	2.34	0.42
1:B5:179:ASN:HB2	1:B5:183:THR:O	2.20	0.42
1:B5:317:TYR:OH	1:b5:337:ASP:HB2	2.20	0.42
1:b5:179:ASN:HB2	1:b5:183:THR:O	2.20	0.42
1:b5:359:LEU:HD12	1:b5:360:ARG:N	2.34	0.42
2:A0:256:GLN:HA	2:A0:265:ASN:HA	2.01	0.42
2:A0:313:ASP:HB3	2:A0:314:PRO:HD3	2.01	0.42
2:C0:181:THR:O	2:C0:185:GLU:OE1	2.38	0.42
2:D0:305:PRO:HA	2:D0:321:ILE:HD13	2.01	0.42
2:D0:313:ASP:HB3	2:D0:314:PRO:HD3	2.01	0.42
2:E0:53:TYR:CB	2:F0:78:VAL:HG13	2.50	0.42
2:E0:295:ARG:NH1	2:E0:296:GLU:HB3	2.35	0.42
2:F0:181:THR:HG21	2:F0:217:LYS:HE3	2.01	0.42
2:F0:205:TRP:CH2	2:F0:209:ARG:HD2	2.55	0.42
2:D1:48:VAL:O	2:D1:50:MET:HB2	2.20	0.42
2:E1:50:MET:SD	2:E1:50:MET:O	2.76	0.42
2:F1:262:VAL:HG22	2:F1:263:LYS:H	1.85	0.42
2:A2:227:GLU:O	2:A2:230:THR:OG1	2.26	0.42
2:G2:305:PRO:HA	2:G2:321:ILE:HD13	2.01	0.42
2:C2:55:SER:OG	2:D2:146:ALA:HB3	2.19	0.42
2:C2:201:ASP:HB2	2:C2:202:PRO:HD2	2.01	0.42
2:E2:295:ARG:NH1	2:E2:296:GLU:HB3	2.35	0.42
2:F2:73:PHE:HB2	2:F2:326:LEU:HD21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:29:ARG:HB2	2:A3:280:ARG:HH22	1.84	0.42
2:A3:256:GLN:HA	2:A3:265:ASN:HA	2.01	0.42
2:A3:302:ALA:C	2:A3:303:ARG:HD3	2.43	0.42
2:A4:132:VAL:HG22	2:A4:136:LEU:HD12	2.01	0.42
2:A4:181:THR:O	2:A4:185:GLU:OE1	2.38	0.42
2:G4:15:GLN:HG2	2:G4:120:GLU:OE2	2.18	0.42
2:C4:15:GLN:HG2	2:C4:120:GLU:OE2	2.18	0.42
2:C4:181:THR:O	2:C4:185:GLU:OE1	2.38	0.42
2:C4:205:TRP:CH2	2:C4:209:ARG:HD2	2.55	0.42
2:C4:302:ALA:C	2:C4:303:ARG:HD3	2.43	0.42
2:D4:181:THR:O	2:D4:185:GLU:OE1	2.38	0.42
2:D4:305:PRO:HA	2:D4:321:ILE:HD13	2.01	0.42
2:E4:227:GLU:O	2:E4:230:THR:OG1	2.26	0.42
2:F4:132:VAL:HG22	2:F4:136:LEU:HD12	2.01	0.42
2:F4:201:ASP:HB2	2:F4:202:PRO:HD2	2.01	0.42
1:B:320:ALA:C	1:B:322:PRO:HD2	2.45	0.42
1:B:436:GLN:HA	1:B:439:ARG:HE	1.84	0.42
1:b:359:LEU:HB2	1:b:370:TYR:CD2	2.52	0.42
1:B1:374:SER:C	1:b1:360:ARG:HD2	2.43	0.42
1:b1:179:ASN:HB2	1:b1:183:THR:O	2.20	0.42
1:b1:358:LEU:O	1:b1:361:TYR:HB3	2.20	0.42
1:b1:485:ASP:O	1:b1:488:GLU:HG3	2.20	0.42
1:b1:492:GLN:HG3	1:b1:496:GLU:OE2	2.19	0.42
1:b1:500:ARG:NE	1:b1:505:LEU:HB3	2.34	0.42
1:B2:87:ARG:HB3	1:B2:448:ILE:HB	2.00	0.42
1:B2:380:MET:HG2	1:B2:384:THR:CG2	2.48	0.42
1:b2:153:VAL:HB	1:b2:234:ILE:HB	2.01	0.42
1:b2:352:SER:O	1:b2:355:GLU:HG2	2.18	0.42
1:B3:196:ASN:OD1	1:B3:199:GLY:N	2.53	0.42
1:B3:370:TYR:O	1:B3:372:GLN:N	2.53	0.42
1:B3:378:ALA:C	1:B3:379:GLN:HG3	2.44	0.42
1:B3:485:ASP:O	1:B3:488:GLU:HG3	2.20	0.42
1:b3:408:ALA:HB1	1:b3:447:TRP:CD2	2.54	0.42
1:b3:474:THR:OG1	1:b3:477:LYS:HG2	2.20	0.42
1:B4:125:CYS:HB3	1:B4:163:ARG:NH2	2.34	0.42
1:B4:374:SER:HB2	1:b4:361:TYR:HA	2.02	0.42
1:b4:179:ASN:HB2	1:b4:183:THR:O	2.20	0.42
1:b4:180:PRO:HA	1:b4:219:TRP:CG	2.54	0.42
1:b4:377:TYR:HE2	1:B5:371:GLU:CD	2.27	0.42
1:b4:475:TYR:HB3	1:b4:486:TYR:CD1	2.55	0.42
1:B5:72:ASN:OD1	1:b5:365:GLY:HA2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:359:LEU:HB2	1:B5:370:TYR:CD2	2.52	0.42
2:G0:8:GLN:HG2	2:G0:9:LEU:HD23	2.01	0.42
2:G0:205:TRP:CH2	2:G0:209:ARG:HD2	2.55	0.42
2:G0:313:ASP:HB3	2:G0:314:PRO:HD3	2.01	0.42
2:C0:48:VAL:O	2:C0:50:MET:HB2	2.20	0.42
2:C0:227:GLU:O	2:C0:230:THR:OG1	2.26	0.42
2:D0:8:GLN:HG2	2:D0:9:LEU:HD23	2.01	0.42
2:D0:29:ARG:HB2	2:D0:280:ARG:HH22	1.84	0.42
2:E0:262:VAL:HG22	2:E0:263:LYS:H	1.85	0.42
2:E0:285:TYR:OH	2:E0:303:ARG:NH2	2.52	0.42
2:F0:27:PHE:HB2	2:F0:28:PHE:CD1	2.55	0.42
2:F0:48:VAL:O	2:F0:50:MET:HB2	2.20	0.42
2:A1:47:LEU:HD21	2:G1:260:ASN:O	2.19	0.42
2:G1:262:VAL:HG22	2:G1:263:LYS:H	1.85	0.42
2:C1:305:PRO:HA	2:C1:321:ILE:HD13	2.01	0.42
2:D1:313:ASP:HB3	2:D1:314:PRO:HD3	2.01	0.42
2:E1:305:PRO:HA	2:E1:321:ILE:HD13	2.01	0.42
2:G2:181:THR:O	2:G2:185:GLU:OE1	2.38	0.42
2:G2:205:TRP:CH2	2:G2:209:ARG:HD2	2.55	0.42
2:G2:285:TYR:OH	2:G2:303:ARG:NH2	2.52	0.42
2:C2:205:TRP:CH2	2:C2:209:ARG:HD2	2.55	0.42
2:D2:309:VAL:HG22	2:D2:317:GLU:HB3	2.01	0.42
2:E2:33:PRO:CA	2:E2:285:TYR:HB2	2.46	0.42
2:F2:27:PHE:HB2	2:F2:28:PHE:CD1	2.55	0.42
2:F2:181:THR:HG21	2:F2:217:LYS:HE3	2.01	0.42
2:A3:181:THR:O	2:A3:185:GLU:OE1	2.38	0.42
2:G3:285:TYR:OH	2:G3:303:ARG:NH2	2.52	0.42
2:G3:295:ARG:NH1	2:G3:296:GLU:HB3	2.35	0.42
2:C3:55:SER:OG	2:D3:146:ALA:HB3	2.20	0.42
2:D3:132:VAL:HG22	2:D3:136:LEU:HD12	2.01	0.42
2:D3:262:VAL:HG22	2:D3:263:LYS:H	1.85	0.42
2:E3:48:VAL:O	2:E3:50:MET:HB2	2.20	0.42
2:F3:27:PHE:HB2	2:F3:28:PHE:CD1	2.55	0.42
2:C4:201:ASP:HB2	2:C4:202:PRO:HD2	2.01	0.42
2:C4:256:GLN:HA	2:C4:265:ASN:HA	2.01	0.42
2:D4:256:GLN:HA	2:D4:265:ASN:HA	2.02	0.42
2:E4:181:THR:HG21	2:E4:217:LYS:HE3	2.01	0.42
2:F4:256:GLN:HA	2:F4:265:ASN:HA	2.01	0.42
1:B:91:ARG:NH2	1:B:105:ARG:HA	2.30	0.42
1:B:153:VAL:HB	1:B:234:ILE:HB	2.01	0.42
1:b:461:VAL:HG21	1:B1:462:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:196:ASN:OD1	1:B1:199:GLY:N	2.53	0.42
1:B1:436:GLN:H	1:B1:436:GLN:HG2	1.69	0.42
1:b1:80:HIS:CG	1:b1:396:PHE:CD2	3.08	0.42
1:b1:86:PHE:HE2	1:b1:408:ALA:HB2	1.85	0.42
1:b1:161:SER:HA	1:b1:166:ARG:CZ	2.50	0.42
1:b1:383:SER:HA	1:b1:386:ARG:HD3	2.00	0.42
1:b1:397:MET:HE1	1:b1:400:ARG:NH2	2.34	0.42
1:B2:80:HIS:CG	1:B2:396:PHE:CD2	3.08	0.42
1:B2:179:ASN:HB2	1:B2:183:THR:O	2.20	0.42
1:B2:436:GLN:HA	1:B2:439:ARG:HE	1.84	0.42
1:b2:46:ASP:OD1	1:b2:47:ALA:N	2.52	0.42
1:b2:179:ASN:HB2	1:b2:183:THR:O	2.20	0.42
1:b2:488:GLU:OE1	1:B3:474:THR:HG21	2.20	0.42
1:B3:87:ARG:HB3	1:B3:448:ILE:HB	2.00	0.42
1:B3:125:CYS:HB3	1:B3:163:ARG:NH2	2.34	0.42
1:B3:180:PRO:HA	1:B3:219:TRP:CG	2.54	0.42
1:B3:474:THR:OG1	1:B3:477:LYS:HG2	2.20	0.42
1:B3:488:GLU:OE1	1:b3:474:THR:HG21	2.20	0.42
1:b3:320:ALA:C	1:b3:322:PRO:HD2	2.45	0.42
1:b3:370:TYR:O	1:b3:372:GLN:N	2.53	0.42
1:B4:72:ASN:OD1	1:b4:365:GLY:HA2	2.19	0.42
1:B4:179:ASN:HB2	1:B4:183:THR:O	2.20	0.42
1:B4:196:ASN:OD1	1:B4:199:GLY:N	2.53	0.42
1:B4:461:VAL:HG21	1:b4:462:GLN:NE2	2.34	0.42
1:B4:475:TYR:HB3	1:B4:486:TYR:CD1	2.55	0.42
1:b4:75:GLN:NE2	1:B5:399:ARG:HH11	2.18	0.42
1:b4:163:ARG:HG2	1:b4:166:ARG:NH2	2.34	0.42
1:b4:304:ARG:O	1:b4:308:THR:HG23	2.20	0.42
1:b5:358:LEU:O	1:b5:361:TYR:HB3	2.20	0.42
2:A0:27:PHE:HB2	2:A0:28:PHE:CD1	2.55	0.42
2:A0:132:VAL:HG22	2:A0:136:LEU:HD12	2.01	0.42
2:C0:30:GLU:HB2	2:C0:280:ARG:NE	2.35	0.42
2:D0:181:THR:HG21	2:D0:217:LYS:HE3	2.01	0.42
2:F0:181:THR:O	2:F0:185:GLU:OE1	2.38	0.42
2:A1:94:PRO:HG3	2:F1:283:ARG:HH22	1.85	0.42
2:A1:205:TRP:CH2	2:A1:209:ARG:HD2	2.54	0.42
2:G1:27:PHE:HB2	2:G1:28:PHE:CD1	2.55	0.42
2:G1:205:TRP:CH2	2:G1:209:ARG:HD2	2.54	0.42
2:G1:309:VAL:HG22	2:G1:317:GLU:HB3	2.01	0.42
2:C1:29:ARG:HB2	2:C1:280:ARG:HH22	1.84	0.42
2:C1:55:SER:OG	2:D1:146:ALA:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C1:295:ARG:NH1	2:C1:296:GLU:HB3	2.35	0.42
2:E1:48:VAL:O	2:E1:50:MET:HB2	2.20	0.42
2:E1:53:TYR:CB	2:F1:78:VAL:HG13	2.49	0.42
2:E1:73:PHE:HB2	2:E1:326:LEU:HD21	2.01	0.42
2:F1:30:GLU:HB2	2:F1:280:ARG:NE	2.35	0.42
2:F1:64:ARG:H	2:F1:66:ARG:NH1	2.11	0.42
2:F1:181:THR:HG21	2:F1:217:LYS:HE3	2.01	0.42
2:A2:29:ARG:HB2	2:A2:280:ARG:HH22	1.84	0.42
2:A2:73:PHE:HB2	2:A2:326:LEU:HD21	2.01	0.42
2:G2:256:GLN:HA	2:G2:265:ASN:HA	2.02	0.42
2:G2:295:ARG:NH1	2:G2:296:GLU:HB3	2.35	0.42
2:C2:104:PRO:HA	2:C2:107:ARG:CG	2.48	0.42
2:C2:132:VAL:HG22	2:C2:136:LEU:HD12	2.01	0.42
2:C2:181:THR:O	2:C2:185:GLU:OE1	2.37	0.42
2:D2:256:GLN:HA	2:D2:265:ASN:HA	2.02	0.42
2:A3:262:VAL:HG22	2:A3:263:LYS:H	1.85	0.42
2:G3:221:ARG:NH1	2:F3:221:ARG:HD2	2.34	0.42
2:G3:313:ASP:HB3	2:G3:314:PRO:HD3	2.01	0.42
2:C3:29:ARG:HB2	2:C3:280:ARG:HH22	1.84	0.42
2:G4:181:THR:HG21	2:G4:217:LYS:HE3	2.01	0.42
2:G4:201:ASP:HB2	2:G4:202:PRO:HD2	2.01	0.42
2:C4:55:SER:OG	2:D4:146:ALA:HB3	2.19	0.42
2:D4:33:PRO:HG2	2:E4:92:ARG:HH21	1.84	0.42
2:E4:48:VAL:O	2:E4:50:MET:HB2	2.20	0.42
2:E4:73:PHE:HB2	2:E4:326:LEU:HD21	2.01	0.42
2:F4:77:TYR:CD2	2:F4:324:ALA:HB2	2.49	0.42
1:B:180:PRO:HD3	1:B:205:TYR:CD2	2.55	0.42
1:B:265:GLN:CG	1:b:259:LYS:HZ1	2.33	0.42
1:B:485:ASP:O	1:B:488:GLU:HG3	2.20	0.42
1:b:75:GLN:NE2	1:B1:399:ARG:HH11	2.18	0.42
1:b:180:PRO:HD3	1:b:205:TYR:CD2	2.55	0.42
1:b:474:THR:OG1	1:b:477:LYS:HG2	2.20	0.42
1:B1:80:HIS:CG	1:B1:396:PHE:CD2	3.08	0.42
1:B1:111:VAL:HG12	1:B1:425:VAL:HG21	2.01	0.42
1:B1:474:THR:OG1	1:B1:477:LYS:HG2	2.20	0.42
1:B1:492:GLN:HG3	1:B1:496:GLU:OE2	2.19	0.42
1:B2:111:VAL:HG12	1:B2:425:VAL:HG21	2.01	0.42
1:b2:107:PHE:O	1:b2:111:VAL:HG13	2.20	0.42
1:b2:370:TYR:O	1:b2:372:GLN:N	2.53	0.42
1:b2:378:ALA:C	1:b2:379:GLN:HG3	2.44	0.42
1:b2:383:SER:HA	1:b2:386:ARG:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B3:107:PHE:O	1:B3:111:VAL:HG13	2.20	0.42
1:B3:179:ASN:HB2	1:B3:183:THR:O	2.20	0.42
1:B3:475:TYR:HB3	1:B3:486:TYR:CD1	2.55	0.42
1:b3:163:ARG:HG2	1:b3:166:ARG:NH2	2.34	0.42
1:b3:179:ASN:HB2	1:b3:183:THR:O	2.20	0.42
1:b3:485:ASP:O	1:b3:488:GLU:HG3	2.20	0.42
1:B4:486:TYR:O	1:B4:489:ILE:HG22	2.19	0.42
1:b4:107:PHE:O	1:b4:111:VAL:HG13	2.20	0.42
1:B5:114:ALA:O	1:B5:117:GLU:HG3	2.19	0.42
1:B5:436:GLN:HA	1:B5:439:ARG:HE	1.84	0.42
1:b5:408:ALA:HB1	1:b5:447:TRP:CD2	2.54	0.42
1:b5:474:THR:OG1	1:b5:477:LYS:HG2	2.20	0.42
1:b5:492:GLN:HG3	1:b5:496:GLU:OE2	2.19	0.42
2:G0:181:THR:O	2:G0:185:GLU:OE1	2.38	0.42
2:G0:262:VAL:HG22	2:G0:263:LYS:H	1.85	0.42
2:G0:305:PRO:HA	2:G0:321:ILE:HD13	2.02	0.42
2:C0:27:PHE:HB2	2:C0:28:PHE:CD1	2.55	0.42
2:C0:201:ASP:HB2	2:C0:202:PRO:HD2	2.01	0.42
2:C0:217:LYS:CE	2:D0:220:THR:HG21	2.48	0.42
2:D0:30:GLU:HB2	2:D0:280:ARG:NE	2.35	0.42
2:F0:256:GLN:HA	2:F0:265:ASN:HA	2.01	0.42
2:A1:72:GLU:CG	2:C2:40:TYR:HD2	2.33	0.42
2:G1:8:GLN:HG2	2:G1:9:LEU:HD23	2.01	0.42
2:G1:29:ARG:HB2	2:G1:280:ARG:HH22	1.84	0.42
2:C1:33:PRO:CA	2:C1:285:TYR:HB2	2.46	0.42
2:C1:48:VAL:O	2:C1:50:MET:HB2	2.20	0.42
2:C1:181:THR:HG21	2:C1:217:LYS:HE3	2.01	0.42
2:D1:30:GLU:HB2	2:D1:280:ARG:NE	2.35	0.42
2:D1:132:VAL:HG22	2:D1:136:LEU:HD12	2.01	0.42
2:D1:181:THR:O	2:D1:185:GLU:OE1	2.37	0.42
2:E1:84:VAL:HG11	2:E1:112:ILE:HG22	2.01	0.42
2:F1:73:PHE:HB2	2:F1:326:LEU:HD21	2.01	0.42
2:A2:256:GLN:HA	2:A2:265:ASN:HA	2.01	0.42
2:A2:302:ALA:C	2:A2:303:ARG:HD3	2.43	0.42
2:G2:73:PHE:HB2	2:G2:326:LEU:HD21	2.01	0.42
2:G2:104:PRO:HA	2:G2:107:ARG:CG	2.48	0.42
2:D2:30:GLU:HB2	2:D2:280:ARG:NE	2.35	0.42
2:D2:73:PHE:HB2	2:D2:326:LEU:HD21	2.01	0.42
2:D2:132:VAL:HG22	2:D2:136:LEU:HD12	2.01	0.42
2:D2:205:TRP:CH2	2:D2:209:ARG:HD2	2.55	0.42
2:E2:205:TRP:CH2	2:E2:209:ARG:HD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E2:262:VAL:HG22	2:E2:263:LYS:H	1.85	0.42
2:F2:104:PRO:HA	2:F2:107:ARG:CG	2.48	0.42
2:A3:73:PHE:HB2	2:A3:326:LEU:HD21	2.01	0.42
2:A3:295:ARG:NH1	2:A3:296:GLU:HB3	2.35	0.42
2:G3:227:GLU:H	2:G3:227:GLU:CD	2.28	0.42
2:C3:201:ASP:HB2	2:C3:202:PRO:HD2	2.01	0.42
2:D3:8:GLN:HG2	2:D3:9:LEU:HD23	2.01	0.42
2:F3:84:VAL:HG11	2:F3:112:ILE:HG22	2.01	0.42
2:A4:29:ARG:HB2	2:A4:280:ARG:HH22	1.84	0.42
2:A4:229:GLU:C	2:A4:233:LYS:HZ3	2.28	0.42
2:A4:256:GLN:HA	2:A4:265:ASN:HA	2.01	0.42
2:A4:295:ARG:NH1	2:A4:296:GLU:HB3	2.35	0.42
2:G4:8:GLN:HG2	2:G4:9:LEU:HD23	2.01	0.42
2:G4:181:THR:O	2:G4:185:GLU:OE1	2.38	0.42
2:G4:215:LYS:HE2	2:G4:215:LYS:HB3	1.79	0.42
2:G4:262:VAL:HG22	2:G4:263:LYS:H	1.85	0.42
2:C4:295:ARG:NH1	2:C4:296:GLU:HB3	2.35	0.42
2:D4:132:VAL:HG22	2:D4:136:LEU:HD12	2.01	0.42
2:D4:205:TRP:CH2	2:D4:209:ARG:HD2	2.55	0.42
2:D4:276:ASN:HB2	2:E4:263:LYS:NZ	2.33	0.42
2:E4:53:TYR:CB	2:F4:78:VAL:HG13	2.49	0.42
2:E4:77:TYR:CD2	2:E4:324:ALA:HB2	2.49	0.42
2:E4:181:THR:O	2:E4:185:GLU:OE1	2.37	0.42
2:F4:29:ARG:HB2	2:F4:280:ARG:HH22	1.84	0.42
2:F4:181:THR:O	2:F4:185:GLU:OE1	2.38	0.42
1:b:320:ALA:C	1:b:322:PRO:HD2	2.45	0.42
1:b:475:TYR:HB3	1:b:486:TYR:CD1	2.55	0.42
1:B1:180:PRO:HD3	1:B1:205:TYR:CD2	2.55	0.42
1:b1:107:PHE:O	1:b1:111:VAL:HG13	2.20	0.42
1:b1:474:THR:OG1	1:b1:477:LYS:HG2	2.20	0.42
1:B2:153:VAL:HB	1:B2:234:ILE:HB	2.01	0.42
1:B2:486:TYR:O	1:B2:489:ILE:HG22	2.19	0.42
1:b2:80:HIS:CG	1:b2:396:PHE:CD2	3.08	0.42
1:B3:91:ARG:NH2	1:B3:105:ARG:HA	2.30	0.42
1:b3:378:ALA:C	1:b3:379:GLN:HG3	2.44	0.42
1:b3:383:SER:HA	1:b3:386:ARG:HD3	2.00	0.42
1:B4:161:SER:HA	1:B4:166:ARG:CZ	2.50	0.42
1:B4:358:LEU:O	1:B4:361:TYR:HB3	2.20	0.42
1:B4:359:LEU:HD12	1:B4:360:ARG:N	2.34	0.42
1:B4:492:GLN:HG3	1:B4:496:GLU:OE2	2.19	0.42
1:b4:86:PHE:HE2	1:b4:408:ALA:HB2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b4:408:ALA:HB1	1:b4:447:TRP:CD2	2.54	0.42
1:b4:492:GLN:HG3	1:b4:496:GLU:OE2	2.19	0.42
1:b4:500:ARG:HA	1:b4:505:LEU:HB2	2.02	0.42
1:B5:87:ARG:HB3	1:B5:448:ILE:HB	2.00	0.42
1:b5:80:HIS:CG	1:b5:396:PHE:CD2	3.08	0.42
1:b5:86:PHE:HE2	1:b5:408:ALA:HB2	1.85	0.42
1:b5:180:PRO:HA	1:b5:219:TRP:CG	2.54	0.42
2:A0:62:VAL:HG23	2:G0:314:PRO:HB3	2.02	0.42
2:G0:215:LYS:HE2	2:G0:215:LYS:HB3	1.79	0.42
2:A1:30:GLU:HB2	2:A1:280:ARG:NE	2.35	0.42
2:A1:33:PRO:CA	2:A1:285:TYR:HB2	2.46	0.42
2:A1:84:VAL:HG11	2:A1:112:ILE:HG22	2.01	0.42
2:A1:256:GLN:HA	2:A1:265:ASN:HA	2.02	0.42
2:A1:291:ALA:N	2:D2:316:ARG:NH1	2.66	0.42
2:G1:295:ARG:NH1	2:G1:296:GLU:HB3	2.35	0.42
2:G1:326:LEU:HD12	2:G1:326:LEU:HA	1.94	0.42
2:C1:30:GLU:HB2	2:C1:280:ARG:NE	2.35	0.42
2:A2:72:GLU:CG	2:C3:40:TYR:HD2	2.33	0.42
2:A2:205:TRP:CH2	2:A2:209:ARG:HD2	2.54	0.42
2:A2:262:VAL:HG22	2:A2:263:LYS:H	1.85	0.42
2:G2:227:GLU:O	2:G2:230:THR:OG1	2.26	0.42
2:D2:84:VAL:HG11	2:D2:112:ILE:HG22	2.01	0.42
2:D2:276:ASN:HB2	2:E2:263:LYS:NZ	2.33	0.42
2:E2:30:GLU:HB2	2:E2:280:ARG:NE	2.35	0.42
2:E2:181:THR:O	2:E2:185:GLU:OE1	2.38	0.42
2:E2:256:GLN:HA	2:E2:265:ASN:HA	2.02	0.42
2:E2:305:PRO:HA	2:E2:321:ILE:HD13	2.01	0.42
2:F2:205:TRP:CH2	2:F2:209:ARG:HD2	2.54	0.42
2:A3:62:VAL:HG23	2:G3:314:PRO:HB3	2.02	0.42
2:A3:291:ALA:H	2:D4:316:ARG:HH12	1.65	0.42
2:G3:48:VAL:O	2:G3:50:MET:HB2	2.20	0.42
2:D3:295:ARG:NH1	2:D3:296:GLU:HB3	2.35	0.42
2:E3:262:VAL:HG22	2:E3:263:LYS:H	1.85	0.42
2:F3:29:ARG:HB2	2:F3:280:ARG:HH22	1.84	0.42
2:F3:30:GLU:HB2	2:F3:280:ARG:NE	2.35	0.42
2:F3:132:VAL:HG22	2:F3:136:LEU:HD12	2.01	0.42
2:F3:262:VAL:HG22	2:F3:263:LYS:H	1.85	0.42
2:A4:94:PRO:HG3	2:F4:283:ARG:HH22	1.85	0.42
2:G4:29:ARG:HB2	2:G4:280:ARG:HH22	1.84	0.42
2:G4:48:VAL:O	2:G4:50:MET:HB2	2.20	0.42
2:G4:227:GLU:H	2:G4:227:GLU:CD	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E4:14:GLU:HB2	2:E4:16:LYS:HZ3	1.83	0.42
2:E4:29:ARG:HB2	2:E4:280:ARG:HH22	1.84	0.42
2:E4:295:ARG:NH1	2:E4:296:GLU:HB3	2.35	0.42
2:E4:313:ASP:HB3	2:E4:314:PRO:HD3	2.01	0.42
2:F4:30:GLU:HB2	2:F4:280:ARG:NE	2.35	0.42
1:B:341:LEU:HD23	1:B:341:LEU:H	1.85	0.42
1:b:80:HIS:CG	1:b:396:PHE:CD2	3.08	0.42
1:b:107:PHE:O	1:b:111:VAL:HG13	2.20	0.42
1:b:485:ASP:O	1:b:488:GLU:HG3	2.20	0.42
1:B1:180:PRO:HA	1:B1:219:TRP:CG	2.54	0.42
1:B1:320:ALA:C	1:B1:322:PRO:HD2	2.45	0.42
1:b1:196:ASN:OD1	1:b1:199:GLY:N	2.53	0.42
1:b1:212:PRO:C	1:b1:214:TRP:H	2.28	0.42
1:b1:352:SER:O	1:b1:355:GLU:HG2	2.19	0.42
1:b1:377:TYR:HE2	1:B2:371:GLU:CD	2.28	0.42
1:b1:488:GLU:OE1	1:B2:474:THR:HG21	2.20	0.42
1:B2:107:PHE:O	1:B2:111:VAL:HG13	2.20	0.42
1:B2:180:PRO:HD3	1:B2:205:TYR:CD2	2.55	0.42
1:B2:370:TYR:O	1:B2:372:GLN:N	2.53	0.42
1:B2:475:TYR:HB3	1:B2:486:TYR:CD1	2.55	0.42
1:b2:500:ARG:HA	1:b2:505:LEU:HB2	2.02	0.42
1:B3:50:LEU:HD23	1:B3:50:LEU:HA	1.88	0.42
1:b3:72:ASN:OD1	1:B4:365:GLY:HA2	2.19	0.42
1:b3:80:HIS:CG	1:b3:396:PHE:CD2	3.08	0.42
1:b3:107:PHE:O	1:b3:111:VAL:HG13	2.20	0.42
1:b3:212:PRO:C	1:b3:214:TRP:H	2.28	0.42
1:b3:265:GLN:HG3	1:B4:259:LYS:NZ	2.34	0.42
1:b3:358:LEU:O	1:b3:361:TYR:HB3	2.20	0.42
1:b3:374:SER:HB2	1:B4:361:TYR:HA	2.01	0.42
1:b3:461:VAL:HG11	1:B4:462:GLN:OE1	2.19	0.42
1:b3:475:TYR:HB3	1:b3:486:TYR:CD1	2.55	0.42
1:B4:107:PHE:O	1:B4:111:VAL:HG13	2.20	0.42
1:B4:370:TYR:O	1:B4:372:GLN:N	2.53	0.42
1:B4:383:SER:HA	1:B4:386:ARG:HD3	2.00	0.42
1:B4:500:ARG:HA	1:B4:505:LEU:HB2	2.02	0.42
1:b4:278:TYR:CE2	1:B5:274:VAL:HG21	2.55	0.42
1:b4:461:VAL:HG21	1:B5:462:GLN:NE2	2.34	0.42
1:b4:486:TYR:O	1:b4:489:ILE:HG22	2.19	0.42
1:B5:161:SER:HA	1:B5:166:ARG:CZ	2.50	0.42
1:B5:378:ALA:C	1:B5:379:GLN:HG3	2.44	0.42
1:B5:474:THR:OG1	1:B5:477:LYS:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:276:ASN:HD22	2:G0:263:LYS:HZ3	1.67	0.42
2:A0:295:ARG:NH1	2:A0:296:GLU:HB3	2.35	0.42
2:G0:227:GLU:H	2:G0:227:GLU:CD	2.28	0.42
2:D0:27:PHE:HB2	2:D0:28:PHE:CD1	2.55	0.42
2:E0:48:VAL:O	2:E0:50:MET:HB2	2.20	0.42
2:E0:73:PHE:HB2	2:E0:326:LEU:HD21	2.01	0.42
2:F0:262:VAL:HG22	2:F0:263:LYS:H	1.85	0.42
2:A1:181:THR:O	2:A1:185:GLU:OE1	2.38	0.42
2:A1:262:VAL:HG22	2:A1:263:LYS:H	1.85	0.42
2:G1:48:VAL:O	2:G1:50:MET:HB2	2.20	0.42
2:C1:84:VAL:HG11	2:C1:112:ILE:HG22	2.01	0.42
2:C1:205:TRP:CH2	2:C1:209:ARG:HD2	2.54	0.42
2:C1:256:GLN:HA	2:C1:265:ASN:HA	2.01	0.42
2:D1:27:PHE:HB2	2:D1:28:PHE:CD1	2.55	0.42
2:D1:33:PRO:CA	2:D1:285:TYR:HB2	2.46	0.42
2:E1:132:VAL:HG22	2:E1:136:LEU:HD12	2.01	0.42
2:E1:205:TRP:CH2	2:E1:209:ARG:HD2	2.55	0.42
2:E1:285:TYR:OH	2:E1:303:ARG:NH2	2.52	0.42
2:E1:295:ARG:NH1	2:E1:296:GLU:HB3	2.35	0.42
2:A2:47:LEU:HD21	2:G2:260:ASN:O	2.20	0.42
2:A2:181:THR:HG21	2:A2:217:LYS:HE3	2.01	0.42
2:A2:295:ARG:NH1	2:A2:296:GLU:HB3	2.35	0.42
2:C2:84:VAL:HG11	2:C2:112:ILE:HG22	2.01	0.42
2:D2:27:PHE:HB2	2:D2:28:PHE:CD1	2.55	0.42
2:E2:27:PHE:HB2	2:E2:28:PHE:CD1	2.55	0.42
2:A3:227:GLU:H	2:A3:227:GLU:CD	2.28	0.42
2:G3:30:GLU:HB2	2:G3:280:ARG:NE	2.35	0.42
2:G3:77:TYR:CD2	2:G3:324:ALA:HB2	2.49	0.42
2:C3:48:VAL:O	2:C3:50:MET:HB2	2.20	0.42
2:F3:308:TRP:HZ3	2:F3:310:THR:HG1	1.67	0.42
2:A4:62:VAL:HG23	2:G4:314:PRO:HB3	2.02	0.42
2:A4:227:GLU:H	2:A4:227:GLU:CD	2.28	0.42
2:A4:262:VAL:HG22	2:A4:263:LYS:H	1.85	0.42
2:G4:205:TRP:CH2	2:G4:209:ARG:HD2	2.55	0.42
2:C4:33:PRO:CA	2:C4:285:TYR:HB2	2.46	0.42
2:C4:48:VAL:O	2:C4:50:MET:HB2	2.20	0.42
2:C4:262:VAL:HG22	2:C4:263:LYS:H	1.85	0.42
2:D4:27:PHE:HB2	2:D4:28:PHE:CD1	2.55	0.42
2:D4:48:VAL:O	2:D4:50:MET:HB2	2.20	0.42
2:F4:8:GLN:HG2	2:F4:9:LEU:HD23	2.01	0.42
2:F4:48:VAL:O	2:F4:50:MET:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:163:ARG:HG2	1:B:166:ARG:NH2	2.34	0.41
1:B:361:TYR:HA	1:b5:374:SER:CB	2.50	0.41
1:B:486:TYR:O	1:B:489:ILE:HG22	2.19	0.41
1:b:153:VAL:HB	1:b:234:ILE:HB	2.01	0.41
1:b:196:ASN:OD1	1:b:199:GLY:N	2.53	0.41
1:b:341:LEU:H	1:b:341:LEU:HD23	1.85	0.41
1:B1:397:MET:HE1	1:B1:400:ARG:NH2	2.34	0.41
1:B1:408:ALA:HB1	1:B1:447:TRP:CD2	2.55	0.41
1:B1:475:TYR:HB3	1:B1:486:TYR:CD1	2.55	0.41
1:B1:485:ASP:O	1:B1:488:GLU:HG3	2.20	0.41
1:B1:500:ARG:HA	1:B1:505:LEU:HB2	2.02	0.41
1:b1:87:ARG:HB3	1:b1:448:ILE:HB	2.01	0.41
1:b1:500:ARG:HA	1:b1:505:LEU:HB2	2.02	0.41
1:B2:125:CYS:HB3	1:B2:163:ARG:NH2	2.34	0.41
1:B2:265:GLN:HG3	1:b2:259:LYS:NZ	2.35	0.41
1:B2:304:ARG:O	1:B2:308:THR:HG23	2.20	0.41
1:B2:408:ALA:HB1	1:B2:447:TRP:CD2	2.54	0.41
1:b2:212:PRO:C	1:b2:214:TRP:H	2.28	0.41
1:b2:397:MET:HE1	1:b2:400:ARG:NH2	2.34	0.41
1:b2:408:ALA:HB1	1:b2:447:TRP:CD2	2.54	0.41
1:B3:500:ARG:HA	1:B3:505:LEU:HB2	2.02	0.41
1:b3:436:GLN:H	1:b3:436:GLN:HG2	1.69	0.41
1:B4:265:GLN:HG3	1:b4:259:LYS:NZ	2.35	0.41
1:b4:125:CYS:HB3	1:b4:163:ARG:NH2	2.34	0.41
1:b4:196:ASN:OD1	1:b4:199:GLY:N	2.53	0.41
1:b4:374:SER:C	1:B5:360:ARG:HD2	2.44	0.41
1:b4:378:ALA:C	1:b4:379:GLN:HG3	2.44	0.41
1:B5:304:ARG:O	1:B5:308:THR:HG23	2.20	0.41
1:B5:376:ASN:CG	1:b5:360:ARG:HD3	2.44	0.41
1:B5:475:TYR:HB3	1:B5:486:TYR:CD1	2.55	0.41
1:b5:196:ASN:OD1	1:b5:199:GLY:N	2.53	0.41
1:b5:341:LEU:HD23	1:b5:341:LEU:H	1.85	0.41
1:b5:359:LEU:HB2	1:b5:370:TYR:CD2	2.53	0.41
1:b5:378:ALA:C	1:b5:379:GLN:HG3	2.44	0.41
1:b5:485:ASP:O	1:b5:488:GLU:HG3	2.20	0.41
2:D0:104:PRO:HA	2:D0:107:ARG:CG	2.48	0.41
2:D0:229:GLU:C	2:D0:233:LYS:HZ3	2.28	0.41
2:A1:27:PHE:HB2	2:A1:28:PHE:CD1	2.55	0.41
2:C1:217:LYS:CE	2:D1:220:THR:HG21	2.48	0.41
2:D1:104:PRO:HA	2:D1:107:ARG:CG	2.48	0.41
2:D1:181:THR:HG21	2:D1:217:LYS:HE3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D1:201:ASP:HB2	2:D1:202:PRO:HD2	2.01	0.41
2:F1:48:VAL:O	2:F1:50:MET:HB2	2.20	0.41
2:F1:205:TRP:CH2	2:F1:209:ARG:HD2	2.54	0.41
2:F1:295:ARG:NH1	2:F1:296:GLU:HB3	2.35	0.41
2:G2:27:PHE:HB2	2:G2:28:PHE:CD1	2.55	0.41
2:G2:30:GLU:HB2	2:G2:280:ARG:NE	2.35	0.41
2:G2:48:VAL:O	2:G2:50:MET:HB2	2.20	0.41
2:C2:73:PHE:HB2	2:C2:326:LEU:HD21	2.01	0.41
2:C2:262:VAL:HG22	2:C2:263:LYS:H	1.85	0.41
2:E2:53:TYR:CB	2:F2:78:VAL:HG13	2.49	0.41
2:E2:104:PRO:HA	2:E2:107:ARG:CG	2.48	0.41
2:C3:30:GLU:HB2	2:C3:280:ARG:NE	2.35	0.41
2:C3:262:VAL:HG22	2:C3:263:LYS:H	1.85	0.41
2:E3:205:TRP:CH2	2:E3:209:ARG:HD2	2.55	0.41
2:G4:27:PHE:HB2	2:G4:28:PHE:CD1	2.55	0.41
2:C4:29:ARG:HB2	2:C4:280:ARG:HH22	1.84	0.41
2:E4:27:PHE:HB2	2:E4:28:PHE:CD1	2.55	0.41
1:B:212:PRO:C	1:B:214:TRP:H	2.28	0.41
1:B:304:ARG:O	1:B:308:THR:HG23	2.20	0.41
1:B:358:LEU:O	1:B:361:TYR:HB3	2.20	0.41
1:B:475:TYR:HB3	1:B:486:TYR:CD1	2.55	0.41
1:b:500:ARG:NE	1:b:505:LEU:HB3	2.35	0.41
1:B1:212:PRO:C	1:B1:214:TRP:H	2.28	0.41
1:b1:111:VAL:HG12	1:b1:425:VAL:HG21	2.01	0.41
1:b1:153:VAL:HB	1:b1:234:ILE:HB	2.01	0.41
1:b1:180:PRO:HD3	1:b1:205:TYR:CD2	2.55	0.41
1:B2:86:PHE:HE2	1:B2:408:ALA:HB2	1.85	0.41
1:B2:161:SER:HA	1:B2:166:ARG:CZ	2.50	0.41
1:B2:320:ALA:C	1:B2:322:PRO:HD2	2.45	0.41
1:B2:485:ASP:O	1:B2:488:GLU:HG3	2.20	0.41
1:b2:180:PRO:HD3	1:b2:205:TYR:CD2	2.55	0.41
1:b3:196:ASN:OD1	1:b3:199:GLY:N	2.53	0.41
1:B4:111:VAL:HG12	1:B4:425:VAL:HG21	2.01	0.41
1:b4:50:LEU:HD23	1:b4:50:LEU:HA	1.88	0.41
1:b4:212:PRO:C	1:b4:214:TRP:H	2.28	0.41
1:b4:358:LEU:O	1:b4:361:TYR:HB3	2.20	0.41
1:b4:374:SER:HB2	1:B5:361:TYR:HA	2.02	0.41
1:B5:86:PHE:HE2	1:B5:408:ALA:HB2	1.85	0.41
1:B5:320:ALA:C	1:B5:322:PRO:HD2	2.45	0.41
1:b5:180:PRO:HD3	1:b5:205:TYR:CD2	2.55	0.41
2:A0:30:GLU:HB2	2:A0:280:ARG:NE	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:64:ARG:H	2:A0:66:ARG:NH1	2.11	0.41
2:G0:76:GLY:HA2	2:G0:142:MET:CE	2.40	0.41
2:C0:295:ARG:NH1	2:C0:296:GLU:HB3	2.35	0.41
2:D0:219:ASP:OD2	2:E0:209:ARG:CZ	2.68	0.41
2:E0:27:PHE:HB2	2:E0:28:PHE:CD1	2.55	0.41
2:G1:305:PRO:HA	2:G1:321:ILE:HD13	2.01	0.41
2:D1:227:GLU:H	2:D1:227:GLU:CD	2.28	0.41
2:E1:27:PHE:HB2	2:E1:28:PHE:CD1	2.55	0.41
2:A2:64:ARG:H	2:A2:66:ARG:NH1	2.11	0.41
2:C2:30:GLU:HB2	2:C2:280:ARG:NE	2.35	0.41
2:C2:256:GLN:HA	2:C2:265:ASN:HA	2.01	0.41
2:C2:295:ARG:NH1	2:C2:296:GLU:HB3	2.35	0.41
2:D2:8:GLN:HG2	2:D2:9:LEU:HD23	2.01	0.41
2:D2:48:VAL:HG23	2:D2:50:MET:HB2	2.03	0.41
2:D2:104:PRO:HA	2:D2:107:ARG:CG	2.48	0.41
2:D2:305:PRO:HA	2:D2:321:ILE:HD13	2.01	0.41
2:E2:235:LEU:HA	2:E2:237:LYS:HZ3	1.84	0.41
2:A3:276:ASN:HD22	2:G3:263:LYS:HZ3	1.66	0.41
2:C3:77:TYR:CD2	2:C3:324:ALA:HB2	2.49	0.41
2:C3:84:VAL:HG11	2:C3:112:ILE:HG22	2.01	0.41
2:C3:295:ARG:NH1	2:C3:296:GLU:HB3	2.35	0.41
2:C3:313:ASP:HB3	2:C3:314:PRO:HD3	2.01	0.41
2:D3:27:PHE:HB2	2:D3:28:PHE:CD1	2.55	0.41
2:D3:30:GLU:HB2	2:D3:280:ARG:NE	2.35	0.41
2:D3:48:VAL:O	2:D3:50:MET:HB2	2.20	0.41
2:E3:48:VAL:HG23	2:E3:50:MET:HB2	2.03	0.41
2:F3:201:ASP:HB2	2:F3:202:PRO:HD2	2.01	0.41
2:A4:27:PHE:HB2	2:A4:28:PHE:CD1	2.55	0.41
2:A4:84:VAL:HG11	2:A4:112:ILE:HG22	2.01	0.41
2:G4:295:ARG:NH1	2:G4:296:GLU:HB3	2.35	0.41
2:D4:30:GLU:HB2	2:D4:280:ARG:NE	2.35	0.41
2:D4:181:THR:HG21	2:D4:217:LYS:HE3	2.01	0.41
1:B:196:ASN:OD1	1:B:199:GLY:N	2.53	0.41
1:b:161:SER:HA	1:b:166:ARG:CZ	2.50	0.41
1:b:408:ALA:HB1	1:b:447:TRP:CD2	2.54	0.41
1:B1:153:VAL:HB	1:B1:234:ILE:HB	2.01	0.41
1:B1:163:ARG:HG2	1:B1:166:ARG:NH2	2.34	0.41
1:B1:214:TRP:HH2	1:b1:185:ASP:CG	2.28	0.41
1:B1:341:LEU:HD23	1:B1:341:LEU:H	1.85	0.41
1:B1:377:TYR:HE2	1:b1:371:GLU:CD	2.28	0.41
1:B2:377:TYR:HE2	1:b2:371:GLU:CD	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B2:383:SER:HA	1:B2:386:ARG:HD3	2.01	0.41
1:B2:474:THR:HG23	1:B2:477:LYS:HZ3	1.85	0.41
1:b2:75:GLN:NE2	1:B3:399:ARG:HH11	2.19	0.41
1:b2:76:LEU:O	1:b2:80:HIS:ND1	2.41	0.41
1:b2:196:ASN:OD1	1:b2:199:GLY:N	2.53	0.41
1:b2:304:ARG:O	1:b2:308:THR:HG23	2.20	0.41
1:b2:320:ALA:C	1:b2:322:PRO:HD2	2.45	0.41
1:b2:374:SER:HB2	1:B3:361:TYR:HA	2.01	0.41
1:b2:474:THR:HG23	1:b2:477:LYS:HZ3	1.86	0.41
1:B3:304:ARG:O	1:B3:308:THR:HG23	2.20	0.41
1:b3:341:LEU:HD23	1:b3:341:LEU:H	1.85	0.41
1:b3:500:ARG:NE	1:b3:505:LEU:HB3	2.34	0.41
1:B4:88:LEU:HG	1:B4:112:GLU:OE2	2.21	0.41
1:B4:320:ALA:C	1:B4:322:PRO:HD2	2.45	0.41
1:B4:341:LEU:HD23	1:B4:341:LEU:H	1.85	0.41
1:B4:485:ASP:O	1:B4:488:GLU:HG3	2.20	0.41
1:b4:111:VAL:HG12	1:b4:425:VAL:HG21	2.01	0.41
1:b4:161:SER:HA	1:b4:166:ARG:CZ	2.50	0.41
1:b4:370:TYR:O	1:b4:372:GLN:N	2.53	0.41
1:B5:88:LEU:HG	1:B5:112:GLU:OE2	2.21	0.41
1:B5:212:PRO:C	1:B5:214:TRP:H	2.28	0.41
1:B5:408:ALA:HB1	1:B5:447:TRP:CD2	2.54	0.41
1:B5:485:ASP:O	1:B5:488:GLU:HG3	2.20	0.41
1:b5:161:SER:HA	1:b5:166:ARG:CZ	2.50	0.41
1:b5:212:PRO:C	1:b5:214:TRP:H	2.28	0.41
2:G0:30:GLU:HB2	2:G0:280:ARG:NE	2.35	0.41
2:G0:84:VAL:HG11	2:G0:112:ILE:HG22	2.01	0.41
2:E0:205:TRP:CH2	2:E0:209:ARG:HD2	2.54	0.41
2:F0:305:PRO:HA	2:F0:321:ILE:HD13	2.01	0.41
2:G1:30:GLU:HB2	2:G1:280:ARG:NE	2.35	0.41
2:G1:181:THR:HG21	2:G1:217:LYS:HE3	2.01	0.41
2:C1:27:PHE:HB2	2:C1:28:PHE:CD1	2.55	0.41
2:C1:201:ASP:HB2	2:C1:202:PRO:HD2	2.01	0.41
2:D1:205:TRP:CH2	2:D1:209:ARG:HD2	2.54	0.41
2:D1:305:PRO:HA	2:D1:321:ILE:HD13	2.01	0.41
2:E1:227:GLU:H	2:E1:227:GLU:CD	2.28	0.41
2:G2:48:VAL:HG23	2:G2:50:MET:HB2	2.02	0.41
2:C2:48:VAL:O	2:C2:50:MET:HB2	2.20	0.41
2:E2:48:VAL:HG23	2:E2:50:MET:HB2	2.02	0.41
2:E2:84:VAL:HG11	2:E2:112:ILE:HG22	2.01	0.41
2:A3:47:LEU:HD21	2:G3:260:ASN:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:72:GLU:CG	2:C4:40:TYR:HD2	2.33	0.41
2:G3:29:ARG:HB2	2:G3:280:ARG:HH22	1.84	0.41
2:G3:262:VAL:HG22	2:G3:263:LYS:H	1.85	0.41
2:D3:219:ASP:OD2	2:E3:209:ARG:CZ	2.68	0.41
2:D3:225:ASN:HA	2:E3:242:LYS:HZ2	1.82	0.41
2:E3:313:ASP:HB3	2:E3:314:PRO:HD3	2.01	0.41
2:A4:181:THR:HG21	2:A4:217:LYS:HE3	2.01	0.41
2:G4:84:VAL:HG11	2:G4:112:ILE:HG22	2.01	0.41
2:C4:225:ASN:O	2:D4:233:LYS:HD2	2.19	0.41
2:D4:29:ARG:HB2	2:D4:280:ARG:HH22	1.84	0.41
2:E4:256:GLN:HA	2:E4:265:ASN:HA	2.01	0.41
2:F4:215:LYS:HB3	2:F4:215:LYS:HE2	1.79	0.41
1:B:211:TYR:O	1:B:215:MET:HE2	2.21	0.41
1:B:265:GLN:HG3	1:b:259:LYS:HZ1	1.85	0.41
1:b:87:ARG:HB3	1:b:448:ILE:HB	2.01	0.41
1:b1:304:ARG:O	1:b1:308:THR:HG23	2.20	0.41
1:b1:320:ALA:C	1:b1:322:PRO:HD2	2.45	0.41
1:b1:341:LEU:HD23	1:b1:341:LEU:H	1.85	0.41
1:b1:374:SER:CB	1:B2:361:TYR:HA	2.51	0.41
1:B2:397:MET:HE1	1:B2:400:ARG:NH2	2.34	0.41
1:b2:161:SER:HA	1:b2:166:ARG:CZ	2.50	0.41
1:b2:183:THR:HG22	2:G4:100:ASN:CB	2.50	0.41
1:B3:80:HIS:CG	1:B3:396:PHE:CD2	3.08	0.41
1:b3:304:ARG:O	1:b3:308:THR:HG23	2.20	0.41
1:b3:436:GLN:HA	1:b3:439:ARG:HE	1.84	0.41
1:B4:500:ARG:NE	1:B4:505:LEU:HB3	2.35	0.41
1:b4:76:LEU:O	1:b4:80:HIS:ND1	2.41	0.41
1:b4:80:HIS:CG	1:b4:396:PHE:CD2	3.08	0.41
1:b4:341:LEU:HD23	1:b4:341:LEU:H	1.85	0.41
1:B5:341:LEU:H	1:B5:341:LEU:HD23	1.85	0.41
1:b5:370:TYR:O	1:b5:372:GLN:N	2.53	0.41
1:b5:500:ARG:HA	1:b5:505:LEU:HB2	2.02	0.41
2:A0:47:LEU:HD21	2:G0:260:ASN:O	2.19	0.41
2:C0:29:ARG:HB2	2:C0:280:ARG:HH22	1.84	0.41
2:D0:48:VAL:O	2:D0:50:MET:HB2	2.20	0.41
2:D0:84:VAL:HG11	2:D0:112:ILE:HG22	2.01	0.41
2:F0:84:VAL:HG11	2:F0:112:ILE:HG22	2.01	0.41
2:A1:272:MET:HE3	2:A1:273:VAL:O	2.21	0.41
2:G1:64:ARG:H	2:G1:66:ARG:NH1	2.11	0.41
2:G1:201:ASP:HB2	2:G1:202:PRO:HD2	2.01	0.41
2:D1:48:VAL:HG23	2:D1:50:MET:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E1:30:GLU:HB2	2:E1:280:ARG:NE	2.35	0.41
2:C2:76:GLY:HA2	2:C2:142:MET:CE	2.40	0.41
2:C2:215:LYS:HE2	2:C2:215:LYS:HB3	1.79	0.41
2:C2:217:LYS:CE	2:D2:220:THR:HG21	2.48	0.41
2:D2:201:ASP:HB2	2:D2:202:PRO:HD2	2.01	0.41
2:D2:262:VAL:HG22	2:D2:263:LYS:H	1.85	0.41
2:E2:48:VAL:O	2:E2:50:MET:HB2	2.20	0.41
2:E2:73:PHE:HB2	2:E2:326:LEU:HD21	2.01	0.41
2:F2:48:VAL:O	2:F2:50:MET:HB2	2.20	0.41
2:F2:201:ASP:HB2	2:F2:202:PRO:HD2	2.01	0.41
2:F2:215:LYS:HE2	2:F2:215:LYS:HB3	1.79	0.41
2:F2:256:GLN:HA	2:F2:265:ASN:HA	2.01	0.41
2:F2:309:VAL:HG22	2:F2:317:GLU:HB3	2.01	0.41
2:A3:30:GLU:HB2	2:A3:280:ARG:NE	2.35	0.41
2:G3:272:MET:HE3	2:G3:273:VAL:O	2.21	0.41
2:C3:305:PRO:HA	2:C3:321:ILE:HD13	2.01	0.41
2:D3:48:VAL:HG23	2:D3:50:MET:HB2	2.02	0.41
2:E3:295:ARG:NH1	2:E3:296:GLU:HB3	2.35	0.41
2:A4:48:VAL:O	2:A4:50:MET:HB2	2.20	0.41
2:A4:73:PHE:HB2	2:A4:326:LEU:HD21	2.01	0.41
2:A4:201:ASP:HB2	2:A4:202:PRO:HD2	2.01	0.41
2:G4:256:GLN:HA	2:G4:265:ASN:HA	2.02	0.41
2:E4:30:GLU:HB2	2:E4:280:ARG:NE	2.35	0.41
2:F4:73:PHE:HB2	2:F4:326:LEU:HD21	2.01	0.41
1:B:500:ARG:HA	1:B:505:LEU:HB2	2.02	0.41
1:b:304:ARG:O	1:b:308:THR:HG23	2.20	0.41
1:b:503:ALA:O	1:B1:494:VAL:HG22	2.20	0.41
1:B1:370:TYR:O	1:B1:372:GLN:N	2.53	0.41
1:b1:211:TYR:O	1:b1:215:MET:HE2	2.21	0.41
1:b1:370:TYR:O	1:b1:372:GLN:N	2.53	0.41
1:b2:125:CYS:HB3	1:b2:163:ARG:NH2	2.34	0.41
1:b3:87:ARG:HB3	1:b3:448:ILE:HB	2.01	0.41
1:b3:374:SER:C	1:B4:360:ARG:HD2	2.43	0.41
1:B4:488:GLU:OE1	1:b4:474:THR:HG21	2.20	0.41
1:B5:196:ASN:OD1	1:B5:199:GLY:N	2.53	0.41
1:B5:214:TRP:HH2	1:b5:185:ASP:CG	2.28	0.41
1:B5:358:LEU:O	1:B5:361:TYR:HB3	2.20	0.41
2:G0:27:PHE:HB2	2:G0:28:PHE:CD1	2.55	0.41
2:G0:73:PHE:HB2	2:G0:326:LEU:HD21	2.01	0.41
2:G0:256:GLN:HA	2:G0:265:ASN:HA	2.02	0.41
2:C0:84:VAL:HG11	2:C0:112:ILE:HG22	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D0:48:VAL:HG23	2:D0:50:MET:HB2	2.03	0.41
2:D0:137:LYS:HE2	2:D0:139:LYS:HB2	2.03	0.41
2:E0:181:THR:O	2:E0:185:GLU:OE1	2.38	0.41
2:A1:104:PRO:HA	2:A1:107:ARG:CG	2.48	0.41
2:A1:132:VAL:HG22	2:A1:136:LEU:HD12	2.01	0.41
2:C1:181:THR:O	2:C1:185:GLU:OE1	2.38	0.41
2:C1:229:GLU:C	2:C1:233:LYS:HZ3	2.27	0.41
2:C1:291:ALA:O	2:C1:295:ARG:HD2	2.21	0.41
2:D1:84:VAL:HG11	2:D1:112:ILE:HG22	2.01	0.41
2:D1:219:ASP:OD2	2:E1:209:ARG:CZ	2.68	0.41
2:D1:276:ASN:HB2	2:E1:263:LYS:NZ	2.33	0.41
2:E1:14:GLU:HB2	2:E1:16:LYS:HZ3	1.84	0.41
2:E1:16:LYS:HA	2:E1:18:LYS:NZ	2.36	0.41
2:E1:256:GLN:HA	2:E1:265:ASN:HA	2.01	0.41
2:E1:291:ALA:O	2:E1:295:ARG:HD2	2.21	0.41
2:A2:27:PHE:HB2	2:A2:28:PHE:CD1	2.55	0.41
2:C2:291:ALA:O	2:C2:295:ARG:HD2	2.21	0.41
2:D2:229:GLU:C	2:D2:233:LYS:HZ3	2.28	0.41
2:A3:205:TRP:CH2	2:A3:209:ARG:HD2	2.54	0.41
2:G3:181:THR:O	2:G3:185:GLU:OE1	2.38	0.41
2:C3:181:THR:O	2:C3:185:GLU:OE1	2.38	0.41
2:C3:272:MET:HE3	2:C3:273:VAL:O	2.21	0.41
2:D3:227:GLU:H	2:D3:227:GLU:CD	2.28	0.41
2:D3:272:MET:HE3	2:D3:273:VAL:O	2.21	0.41
2:D3:291:ALA:O	2:D3:295:ARG:HD2	2.21	0.41
2:E3:272:MET:HE3	2:E3:273:VAL:O	2.21	0.41
2:F3:205:TRP:CH2	2:F3:209:ARG:HD2	2.55	0.41
2:G4:305:PRO:HA	2:G4:321:ILE:HD13	2.01	0.41
2:D4:73:PHE:HB2	2:D4:326:LEU:HD21	2.01	0.41
2:D4:295:ARG:NH1	2:D4:296:GLU:HB3	2.35	0.41
2:E4:262:VAL:HG22	2:E4:263:LYS:H	1.85	0.41
2:F4:84:VAL:HG11	2:F4:112:ILE:HG22	2.01	0.41
1:B:368:VAL:CG1	1:B:396:PHE:HZ	2.31	0.41
1:B:370:TYR:O	1:B:372:GLN:N	2.53	0.41
1:b:91:ARG:NH2	1:b:105:ARG:HA	2.30	0.41
1:B2:374:SER:C	1:b2:360:ARG:HD2	2.44	0.41
1:B3:88:LEU:HG	1:B3:112:GLU:OE2	2.21	0.41
1:B3:180:PRO:HD3	1:B3:205:TYR:CD2	2.55	0.41
1:B3:500:ARG:NE	1:B3:505:LEU:HB3	2.34	0.41
1:b3:86:PHE:HE2	1:b3:408:ALA:HB2	1.85	0.41
1:b3:214:TRP:HZ2	1:B4:186:SER:HA	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b3:488:GLU:OE1	1:B4:474:THR:HG21	2.21	0.41
1:B4:378:ALA:C	1:B4:379:GLN:HG3	2.44	0.41
1:b4:374:SER:CB	1:B5:361:TYR:HA	2.51	0.41
1:B5:180:PRO:HD3	1:B5:205:TYR:CD2	2.55	0.41
1:B5:489:ILE:HD12	1:b5:474:THR:HG23	2.02	0.41
1:B5:503:ALA:O	1:b5:494:VAL:HG22	2.21	0.41
1:b5:211:TYR:O	1:b5:215:MET:HE2	2.21	0.41
2:A0:72:GLU:CG	2:C1:40:TYR:HD2	2.33	0.41
2:A0:181:THR:O	2:A0:185:GLU:OE1	2.38	0.41
2:G0:132:VAL:HG22	2:G0:136:LEU:HD12	2.01	0.41
2:C0:137:LYS:HE2	2:C0:139:LYS:HB2	2.03	0.41
2:C0:262:VAL:HG22	2:C0:263:LYS:H	1.85	0.41
2:D0:316:ARG:HH12	2:A4:291:ALA:H	1.65	0.41
2:E0:313:ASP:HB3	2:E0:314:PRO:HD3	2.01	0.41
2:A1:295:ARG:NH1	2:A1:296:GLU:HB3	2.35	0.41
2:C1:104:PRO:HA	2:C1:107:ARG:CG	2.48	0.41
2:C1:225:ASN:O	2:D1:233:LYS:HD2	2.19	0.41
2:C1:227:GLU:H	2:C1:227:GLU:CD	2.28	0.41
2:E1:29:ARG:HB2	2:E1:280:ARG:HH22	1.84	0.41
2:E1:77:TYR:CD2	2:E1:324:ALA:HB2	2.49	0.41
2:F1:104:PRO:HA	2:F1:107:ARG:CG	2.48	0.41
2:A2:104:PRO:HA	2:A2:107:ARG:CG	2.48	0.41
2:A2:132:VAL:HG22	2:A2:136:LEU:HD12	2.01	0.41
2:A2:181:THR:O	2:A2:185:GLU:OE1	2.38	0.41
2:A2:272:MET:HE3	2:A2:273:VAL:O	2.21	0.41
2:D2:48:VAL:O	2:D2:50:MET:HB2	2.20	0.41
2:D2:137:LYS:HE2	2:D2:139:LYS:HB2	2.03	0.41
2:F2:272:MET:HE3	2:F2:273:VAL:O	2.21	0.41
2:F2:295:ARG:NH1	2:F2:296:GLU:HB3	2.35	0.41
2:A3:48:VAL:O	2:A3:50:MET:HB2	2.20	0.41
2:A3:181:THR:HG21	2:A3:217:LYS:HE3	2.01	0.41
2:A3:313:ASP:HB3	2:A3:314:PRO:HD3	2.01	0.41
2:G3:48:VAL:HG23	2:G3:50:MET:HB2	2.02	0.41
2:G3:256:GLN:HA	2:G3:265:ASN:HA	2.01	0.41
2:C3:27:PHE:HB2	2:C3:28:PHE:CD1	2.55	0.41
2:C3:291:ALA:O	2:C3:295:ARG:HD2	2.21	0.41
2:D3:305:PRO:HA	2:D3:321:ILE:HD13	2.01	0.41
2:E3:30:GLU:HB2	2:E3:280:ARG:NE	2.35	0.41
2:G4:104:PRO:HA	2:G4:107:ARG:CG	2.48	0.41
2:G4:272:MET:HE3	2:G4:273:VAL:O	2.21	0.41
2:C4:84:VAL:HG11	2:C4:112:ILE:HG22	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C4:272:MET:HE3	2:C4:273:VAL:O	2.21	0.41
2:D4:262:VAL:HG22	2:D4:263:LYS:H	1.85	0.41
2:F4:16:LYS:HA	2:F4:18:LYS:NZ	2.36	0.41
2:F4:262:VAL:HG22	2:F4:263:LYS:H	1.85	0.41
1:B:80:HIS:CG	1:B:396:PHE:CD2	3.08	0.41
1:B:374:SER:C	1:b:360:ARG:HD2	2.43	0.41
1:b:212:PRO:C	1:b:214:TRP:H	2.28	0.41
1:b:489:ILE:HD12	1:B1:474:THR:HG23	2.02	0.41
1:B1:211:TYR:O	1:B1:215:MET:HE2	2.21	0.41
1:B1:304:ARG:O	1:B1:308:THR:HG23	2.20	0.41
1:b1:475:TYR:HB3	1:b1:486:TYR:CD1	2.55	0.41
1:B2:341:LEU:H	1:B2:341:LEU:HD23	1.85	0.41
1:B2:488:GLU:OE1	1:b2:474:THR:HG21	2.21	0.41
1:B2:500:ARG:NE	1:B2:505:LEU:HB3	2.34	0.41
1:b2:88:LEU:HG	1:b2:112:GLU:OE2	2.21	0.41
1:b2:358:LEU:O	1:b2:361:TYR:HB3	2.20	0.41
1:b2:370:TYR:C	1:b2:372:GLN:H	2.29	0.41
1:b2:374:SER:HB2	1:B3:360:ARG:O	2.20	0.41
1:b2:474:THR:OG1	1:b2:477:LYS:HG2	2.20	0.41
1:B3:161:SER:HA	1:B3:166:ARG:CZ	2.50	0.41
1:B3:370:TYR:C	1:B3:372:GLN:H	2.29	0.41
1:b3:130:ARG:HH12	1:b3:163:ARG:HH22	1.69	0.41
1:b3:211:TYR:O	1:b3:215:MET:HE2	2.21	0.41
1:b3:374:SER:CB	1:B4:361:TYR:HA	2.51	0.41
1:B4:50:LEU:HD23	1:B4:50:LEU:HA	1.88	0.41
1:B4:304:ARG:O	1:B4:308:THR:HG23	2.20	0.41
1:b4:395:TYR:HB3	1:b4:399:ARG:NH2	2.36	0.41
1:B5:50:LEU:HD23	1:B5:50:LEU:HA	1.88	0.41
1:B5:274:VAL:CG1	1:b5:345:GLN:HE22	2.31	0.41
1:B5:370:TYR:O	1:B5:372:GLN:N	2.53	0.41
1:B5:488:GLU:OE1	1:b5:474:THR:HG21	2.20	0.41
1:b5:166:ARG:HB2	1:b5:422:ARG:NH2	2.36	0.41
1:b5:395:TYR:HB3	1:b5:399:ARG:NH2	2.36	0.41
2:A0:48:VAL:O	2:A0:50:MET:HB2	2.20	0.41
2:G0:84:VAL:HG23	2:G0:317:GLU:OE2	2.21	0.41
2:C0:16:LYS:HA	2:C0:18:LYS:NZ	2.36	0.41
2:D0:127:GLU:OE2	2:D0:327:MET:HB3	2.21	0.41
2:G1:20:ASP:OD1	2:G1:25:ARG:NH1	2.54	0.41
2:G1:73:PHE:HB2	2:G1:326:LEU:HD21	2.01	0.41
2:G1:137:LYS:HE2	2:G1:139:LYS:HB2	2.03	0.41
2:F1:229:GLU:C	2:F1:233:LYS:HZ3	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F1:272:MET:HE3	2:F1:273:VAL:O	2.21	0.41
2:F1:305:PRO:HA	2:F1:321:ILE:HD13	2.01	0.41
2:A2:77:TYR:CD2	2:A2:324:ALA:HB2	2.49	0.41
2:G2:16:LYS:HA	2:G2:18:LYS:NZ	2.36	0.41
2:G2:50:MET:HE1	2:C2:125:GLN:CG	2.31	0.41
2:C2:27:PHE:HB2	2:C2:28:PHE:CD1	2.55	0.41
2:D2:110:ARG:O	2:D2:113:MET:HB2	2.21	0.41
2:E2:16:LYS:HA	2:E2:18:LYS:NZ	2.36	0.41
2:E2:29:ARG:HB2	2:E2:280:ARG:HH22	1.84	0.41
2:E2:181:THR:HG21	2:E2:217:LYS:HE3	2.01	0.41
2:E2:308:TRP:HZ3	2:E2:310:THR:HG1	1.69	0.41
2:A3:84:VAL:HG23	2:A3:317:GLU:OE2	2.21	0.41
2:A3:272:MET:HE3	2:A3:273:VAL:O	2.21	0.41
2:G3:16:LYS:HA	2:G3:18:LYS:NZ	2.36	0.41
2:G3:172:LYS:HE3	2:G3:172:LYS:HB3	1.96	0.41
2:D3:84:VAL:HG11	2:D3:112:ILE:HG22	2.01	0.41
2:D3:137:LYS:HE2	2:D3:139:LYS:HB2	2.03	0.41
2:E3:110:ARG:O	2:E3:113:MET:HB2	2.21	0.41
2:E3:227:GLU:O	2:E3:230:THR:OG1	2.26	0.41
2:A4:16:LYS:HA	2:A4:18:LYS:NZ	2.36	0.41
2:A4:30:GLU:HB2	2:A4:280:ARG:NE	2.35	0.41
2:A4:165:SER:CB	2:A4:339:GLN:HE22	2.34	0.41
2:G4:30:GLU:HB2	2:G4:280:ARG:NE	2.35	0.41
2:G4:33:PRO:CA	2:G4:285:TYR:HB2	2.46	0.41
2:G4:84:VAL:HG23	2:G4:317:GLU:OE2	2.21	0.41
2:C4:30:GLU:HB2	2:C4:280:ARG:NE	2.35	0.41
2:C4:172:LYS:HE3	2:C4:172:LYS:HB3	1.96	0.41
2:C4:313:ASP:HB3	2:C4:314:PRO:HD3	2.01	0.41
2:D4:219:ASP:OD2	2:E4:209:ARG:CZ	2.68	0.41
2:F4:295:ARG:NH1	2:F4:296:GLU:HB3	2.35	0.41
1:B:88:LEU:HG	1:B:112:GLU:OE2	2.21	0.41
1:B:166:ARG:HB2	1:B:422:ARG:NH2	2.36	0.41
1:B:181:ASN:OD1	2:G1:103:ASP:HB2	2.21	0.41
1:b:211:TYR:O	1:b:215:MET:HE2	2.21	0.41
1:B1:107:PHE:O	1:B1:111:VAL:HG13	2.20	0.41
1:B1:374:SER:HB2	1:b1:361:TYR:HA	2.02	0.41
1:b1:436:GLN:H	1:b1:436:GLN:HG2	1.69	0.41
1:B2:370:TYR:C	1:B2:372:GLN:H	2.29	0.41
1:b2:86:PHE:HE2	1:b2:408:ALA:HB2	1.85	0.41
1:b2:91:ARG:NH2	1:b2:105:ARG:HA	2.30	0.41
1:B3:130:ARG:HH12	1:B3:163:ARG:HH22	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B3:474:THR:HG23	1:B3:477:LYS:HZ3	1.86	0.41
1:b3:208:GLU:HG2	1:b3:218:LYS:NZ	2.36	0.41
1:B4:130:ARG:HH12	1:B4:163:ARG:HH22	1.69	0.41
1:b4:370:TYR:C	1:b4:372:GLN:H	2.29	0.41
1:B5:374:SER:HB2	1:b5:361:TYR:HA	2.03	0.41
2:A0:16:LYS:HA	2:A0:18:LYS:NZ	2.36	0.41
2:A0:48:VAL:HG23	2:A0:50:MET:HB2	2.02	0.41
2:A0:127:GLU:OE2	2:A0:327:MET:HB3	2.21	0.41
2:G0:272:MET:HE3	2:G0:273:VAL:O	2.21	0.41
2:G0:291:ALA:O	2:G0:295:ARG:HD2	2.21	0.41
2:F0:30:GLU:HB2	2:F0:280:ARG:NE	2.35	0.41
2:F0:165:SER:CB	2:F0:339:GLN:HE22	2.34	0.41
2:G1:133:SER:HB2	2:G1:137:LYS:NZ	2.36	0.41
2:D1:225:ASN:HA	2:E1:242:LYS:HZ2	1.79	0.41
2:D1:272:MET:HE3	2:D1:273:VAL:O	2.21	0.41
2:D1:295:ARG:NH1	2:D1:296:GLU:HB3	2.35	0.41
2:E1:20:ASP:OD1	2:E1:25:ARG:NH1	2.54	0.41
2:E1:133:SER:HB2	2:E1:137:LYS:NZ	2.36	0.41
2:F1:133:SER:HB2	2:F1:137:LYS:NZ	2.36	0.41
2:A2:48:VAL:O	2:A2:50:MET:HB2	2.20	0.41
2:A2:291:ALA:O	2:A2:295:ARG:HD2	2.21	0.41
2:G2:63:ILE:HB	2:C2:82:HIS:HE1	1.86	0.41
2:G2:313:ASP:HB3	2:G2:314:PRO:HD3	2.01	0.41
2:C2:84:VAL:HG23	2:C2:317:GLU:OE2	2.21	0.41
2:D2:295:ARG:NH1	2:D2:296:GLU:HB3	2.35	0.41
2:E2:84:VAL:HG23	2:E2:317:GLU:OE2	2.21	0.41
2:F2:64:ARG:H	2:F2:66:ARG:NH1	2.11	0.41
2:A3:94:PRO:HG3	2:F3:283:ARG:HH22	1.85	0.41
2:A3:110:ARG:O	2:A3:113:MET:HB2	2.21	0.41
2:A3:127:GLU:OE2	2:A3:327:MET:HB3	2.21	0.41
2:G3:137:LYS:HE2	2:G3:139:LYS:HB2	2.03	0.41
2:G3:165:SER:CB	2:G3:339:GLN:HE22	2.34	0.41
2:G3:291:ALA:O	2:G3:295:ARG:HD2	2.21	0.41
2:D3:16:LYS:HA	2:D3:18:LYS:NZ	2.36	0.41
2:D3:127:GLU:OE2	2:D3:327:MET:HB3	2.21	0.41
2:F3:165:SER:CB	2:F3:339:GLN:HE22	2.34	0.41
2:F3:291:ALA:O	2:F3:295:ARG:HD2	2.21	0.41
2:A4:20:ASP:OD1	2:A4:25:ARG:NH1	2.54	0.41
2:A4:291:ALA:O	2:A4:295:ARG:HD2	2.21	0.41
2:G4:64:ARG:H	2:G4:66:ARG:NH1	2.11	0.41
2:G4:137:LYS:HE2	2:G4:139:LYS:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C4:27:PHE:HB2	2:C4:28:PHE:CD1	2.55	0.41
2:C4:137:LYS:HE2	2:C4:139:LYS:HB2	2.03	0.41
2:D4:16:LYS:HA	2:D4:18:LYS:NZ	2.36	0.41
2:D4:48:VAL:HG23	2:D4:50:MET:HB2	2.03	0.41
2:D4:291:ALA:O	2:D4:295:ARG:HD2	2.21	0.41
2:E4:48:VAL:HG23	2:E4:50:MET:HB2	2.03	0.41
2:E4:291:ALA:O	2:E4:295:ARG:HD2	2.21	0.41
1:B:474:THR:HG21	1:b5:488:GLU:OE1	2.21	0.41
1:b:166:ARG:HB2	1:b:422:ARG:NH2	2.36	0.41
1:b:370:TYR:O	1:b:372:GLN:N	2.53	0.41
1:b:488:GLU:OE1	1:B1:474:THR:HG21	2.20	0.41
1:B1:158:ASP:OD1	1:B1:159:THR:N	2.54	0.41
1:B1:161:SER:HA	1:B1:166:ARG:CZ	2.50	0.41
1:B1:166:ARG:HB2	1:B1:422:ARG:NH2	2.36	0.41
1:B1:208:GLU:HG2	1:B1:218:LYS:NZ	2.36	0.41
1:B1:368:VAL:CG1	1:B1:396:PHE:HZ	2.31	0.41
1:B1:372:GLN:HA	1:B1:375:ARG:HA	2.03	0.41
1:b1:166:ARG:HB2	1:b1:422:ARG:NH2	2.36	0.41
1:B2:208:GLU:HG2	1:B2:218:LYS:NZ	2.36	0.41
1:B2:214:TRP:HH2	1:b2:185:ASP:CG	2.29	0.41
1:b2:317:TYR:OH	1:B3:337:ASP:HB2	2.21	0.41
1:b2:341:LEU:H	1:b2:341:LEU:HD23	1.85	0.41
1:b2:475:TYR:HB3	1:b2:486:TYR:CD1	2.55	0.41
1:B3:408:ALA:HB1	1:B3:447:TRP:CD2	2.54	0.41
1:b3:88:LEU:HG	1:b3:112:GLU:OE2	2.21	0.41
1:b3:214:TRP:HH2	1:B4:185:ASP:CG	2.29	0.41
1:b3:370:TYR:C	1:b3:372:GLN:H	2.29	0.41
1:b3:395:TYR:HB3	1:b3:399:ARG:NH2	2.36	0.41
1:B4:212:PRO:C	1:B4:214:TRP:H	2.28	0.41
1:B4:374:SER:CB	1:b4:361:TYR:HA	2.51	0.41
1:B4:408:ALA:HB1	1:B4:447:TRP:CD2	2.54	0.41
1:B4:474:THR:OG1	1:B4:477:LYS:HG2	2.20	0.41
1:b4:180:PRO:HD3	1:b4:205:TYR:CD2	2.55	0.41
1:b4:436:GLN:H	1:b4:436:GLN:HG2	1.69	0.41
1:b4:485:ASP:O	1:b4:488:GLU:HG3	2.20	0.41
1:b4:488:GLU:OE1	1:B5:474:THR:HG21	2.21	0.41
1:b4:500:ARG:NE	1:b4:505:LEU:HB3	2.35	0.41
1:B5:166:ARG:HB2	1:B5:422:ARG:NH2	2.36	0.41
1:B5:372:GLN:HA	1:B5:375:ARG:HA	2.03	0.41
1:b5:304:ARG:O	1:b5:308:THR:HG23	2.20	0.41
1:b5:368:VAL:CG1	1:b5:396:PHE:HZ	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A0:20:ASP:OD1	2:A0:25:ARG:NH1	2.54	0.41
2:A0:91:ARG:NH1	2:F0:32:TYR:CZ	2.89	0.41
2:A0:104:PRO:HA	2:A0:107:ARG:CG	2.48	0.41
2:A0:110:ARG:O	2:A0:113:MET:HB2	2.21	0.41
2:A0:133:SER:HB2	2:A0:137:LYS:NZ	2.36	0.41
2:A0:229:GLU:C	2:A0:233:LYS:HZ3	2.29	0.41
2:A0:262:VAL:HG22	2:A0:263:LYS:H	1.85	0.41
2:G0:48:VAL:O	2:G0:50:MET:HB2	2.20	0.41
2:G0:133:SER:HB2	2:G0:137:LYS:NZ	2.36	0.41
2:G0:165:SER:CB	2:G0:339:GLN:HE22	2.34	0.41
2:D0:20:ASP:OD1	2:D0:25:ARG:NH1	2.54	0.41
2:D0:44:ILE:HG22	2:D0:46:GLY:H	1.86	0.41
2:D0:295:ARG:NH1	2:D0:296:GLU:HB3	2.35	0.41
2:E0:14:GLU:HB2	2:E0:16:LYS:HZ1	1.85	0.41
2:E0:29:ARG:HB2	2:E0:280:ARG:HH22	1.84	0.41
2:E0:59:SER:CB	2:F0:81:LYS:HZ2	2.29	0.41
2:E0:64:ARG:H	2:E0:66:ARG:NH1	2.11	0.41
2:E0:305:PRO:HA	2:E0:321:ILE:HD13	2.02	0.41
2:F0:20:ASP:OD1	2:F0:25:ARG:NH1	2.54	0.41
2:F0:32:TYR:HB3	2:F0:34:PHE:CE1	2.56	0.41
2:F0:295:ARG:NH1	2:F0:296:GLU:HB3	2.35	0.41
2:A1:20:ASP:OD1	2:A1:25:ARG:NH1	2.54	0.41
2:A1:48:VAL:O	2:A1:50:MET:HB2	2.20	0.41
2:A1:62:VAL:HG23	2:G1:314:PRO:HB3	2.02	0.41
2:G1:32:TYR:HB3	2:G1:34:PHE:CE1	2.56	0.41
2:G1:48:VAL:HG23	2:G1:50:MET:HB2	2.02	0.41
2:G1:84:VAL:HG23	2:G1:317:GLU:OE2	2.21	0.41
2:G1:110:ARG:O	2:G1:113:MET:HB2	2.21	0.41
2:C1:16:LYS:HA	2:C1:18:LYS:NZ	2.36	0.41
2:C1:48:VAL:HG23	2:C1:50:MET:HB2	2.03	0.41
2:C1:84:VAL:HG23	2:C1:317:GLU:OE2	2.21	0.41
2:C1:110:ARG:O	2:C1:113:MET:HB2	2.21	0.41
2:D1:84:VAL:HG23	2:D1:317:GLU:OE2	2.21	0.41
2:D1:262:VAL:HG22	2:D1:263:LYS:H	1.85	0.41
2:D1:291:ALA:O	2:D1:295:ARG:HD2	2.21	0.41
2:E1:165:SER:CB	2:E1:339:GLN:HE22	2.34	0.41
2:E1:326:LEU:HD12	2:E1:326:LEU:HA	1.94	0.41
2:F1:20:ASP:HA	2:F1:21:PRO:HD3	1.95	0.41
2:F1:27:PHE:HB2	2:F1:28:PHE:CD1	2.55	0.41
2:F1:44:ILE:HG22	2:F1:46:GLY:H	1.86	0.41
2:F1:48:VAL:HG23	2:F1:50:MET:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:84:VAL:HG11	2:A2:112:ILE:HG22	2.01	0.41
2:A2:91:ARG:NH1	2:F2:32:TYR:CZ	2.89	0.41
2:G2:20:ASP:OD1	2:G2:25:ARG:NH1	2.54	0.41
2:G2:76:GLY:HA2	2:G2:142:MET:CE	2.41	0.41
2:G2:133:SER:HB2	2:G2:137:LYS:NZ	2.36	0.41
2:C2:44:ILE:HG22	2:C2:46:GLY:H	1.86	0.41
2:C2:133:SER:HB2	2:C2:137:LYS:NZ	2.36	0.41
2:C2:272:MET:HE3	2:C2:273:VAL:O	2.21	0.41
2:D2:219:ASP:OD2	2:E2:209:ARG:CZ	2.68	0.41
2:D2:291:ALA:O	2:D2:295:ARG:HD2	2.21	0.41
2:E2:20:ASP:OD1	2:E2:25:ARG:NH1	2.54	0.41
2:E2:32:TYR:HB3	2:E2:34:PHE:CE1	2.56	0.41
2:E2:77:TYR:CD2	2:E2:324:ALA:HB2	2.49	0.41
2:E2:165:SER:CB	2:E2:339:GLN:HE22	2.34	0.41
2:E2:272:MET:HE3	2:E2:273:VAL:O	2.21	0.41
2:F2:30:GLU:HB2	2:F2:280:ARG:NE	2.35	0.41
2:F2:84:VAL:HG23	2:F2:317:GLU:OE2	2.21	0.41
2:F2:133:SER:HB2	2:F2:137:LYS:NZ	2.36	0.41
2:F2:291:ALA:O	2:F2:295:ARG:HD2	2.21	0.41
2:A3:16:LYS:HA	2:A3:18:LYS:NZ	2.36	0.41
2:A3:27:PHE:HB2	2:A3:28:PHE:CD1	2.55	0.41
2:A3:133:SER:HB2	2:A3:137:LYS:NZ	2.36	0.41
2:A3:165:SER:CB	2:A3:339:GLN:HE22	2.34	0.41
2:G3:27:PHE:HB2	2:G3:28:PHE:CD1	2.55	0.41
2:G3:76:GLY:HA2	2:G3:142:MET:CE	2.41	0.41
2:G3:133:SER:HB2	2:G3:137:LYS:NZ	2.36	0.41
2:G3:305:PRO:HA	2:G3:321:ILE:HD13	2.01	0.41
2:C3:110:ARG:O	2:C3:113:MET:HB2	2.21	0.41
2:E3:27:PHE:HB2	2:E3:28:PHE:CD1	2.55	0.41
2:E3:165:SER:CB	2:E3:339:GLN:HE22	2.34	0.41
2:E3:227:GLU:H	2:E3:227:GLU:CD	2.28	0.41
2:E3:235:LEU:HA	2:E3:237:LYS:HZ3	1.85	0.41
2:E3:309:VAL:HG22	2:E3:317:GLU:HB3	2.01	0.41
2:F3:16:LYS:HA	2:F3:18:LYS:NZ	2.36	0.41
2:F3:48:VAL:O	2:F3:50:MET:HB2	2.20	0.41
2:F3:127:GLU:OE2	2:F3:327:MET:HB3	2.21	0.41
2:F3:295:ARG:NH1	2:F3:296:GLU:HB3	2.35	0.41
2:A4:91:ARG:NH1	2:F4:32:TYR:CZ	2.89	0.41
2:G4:20:ASP:OD1	2:G4:25:ARG:NH1	2.54	0.41
2:G4:44:ILE:HG22	2:G4:46:GLY:H	1.86	0.41
2:G4:127:GLU:OE2	2:G4:327:MET:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G4:291:ALA:O	2:G4:295:ARG:HD2	2.21	0.41
2:C4:165:SER:CB	2:C4:339:GLN:HE22	2.34	0.41
2:C4:305:PRO:HA	2:C4:321:ILE:HD13	2.01	0.41
2:D4:84:VAL:HG11	2:D4:112:ILE:HG22	2.01	0.41
2:E4:127:GLU:OE2	2:E4:327:MET:HB3	2.21	0.41
2:E4:165:SER:CB	2:E4:339:GLN:HE22	2.34	0.41
2:E4:215:LYS:HE2	2:E4:215:LYS:HB3	1.79	0.41
2:F4:27:PHE:HB2	2:F4:28:PHE:CD1	2.55	0.41
2:F4:32:TYR:HB3	2:F4:34:PHE:CE1	2.56	0.41
2:F4:165:SER:CB	2:F4:339:GLN:HE22	2.34	0.41
2:F4:272:MET:HE3	2:F4:273:VAL:O	2.21	0.41
1:B:371:GLU:CD	1:b5:377:TYR:HE2	2.28	0.41
1:b1:88:LEU:HG	1:b1:112:GLU:OE2	2.21	0.41
1:b1:158:ASP:OD1	1:b1:159:THR:N	2.54	0.41
1:B2:88:LEU:HG	1:B2:112:GLU:OE2	2.21	0.41
1:B2:500:ARG:HA	1:B2:505:LEU:HB2	2.02	0.41
1:b2:130:ARG:HH12	1:b2:163:ARG:HH22	1.69	0.41
1:B3:76:LEU:O	1:B3:80:HIS:ND1	2.41	0.41
1:B3:88:LEU:HD13	1:B3:447:TRP:CZ2	2.56	0.41
1:B3:341:LEU:HD23	1:B3:341:LEU:H	1.85	0.41
1:b3:500:ARG:HA	1:b3:505:LEU:HB2	2.02	0.41
1:B4:211:TYR:O	1:B4:215:MET:HE2	2.21	0.41
1:b4:166:ARG:HB2	1:b4:422:ARG:NH2	2.36	0.41
1:b4:372:GLN:HA	1:b4:375:ARG:HA	2.03	0.41
1:b5:372:GLN:HA	1:b5:375:ARG:HA	2.03	0.41
2:A0:291:ALA:O	2:A0:295:ARG:HD2	2.21	0.41
2:G0:20:ASP:OD1	2:G0:25:ARG:NH1	2.54	0.41
2:C0:133:SER:HB2	2:C0:137:LYS:NZ	2.36	0.41
2:C0:308:TRP:HZ3	2:C0:310:THR:HG1	1.68	0.41
2:E0:16:LYS:HA	2:E0:18:LYS:NZ	2.36	0.41
2:E0:20:ASP:OD1	2:E0:25:ARG:NH1	2.54	0.41
2:E0:172:LYS:HE3	2:E0:172:LYS:HB3	1.96	0.41
2:F0:84:VAL:HG23	2:F0:317:GLU:OE2	2.21	0.41
2:F0:291:ALA:O	2:F0:295:ARG:HD2	2.21	0.41
2:A1:16:LYS:HA	2:A1:18:LYS:NZ	2.36	0.41
2:A1:91:ARG:NH1	2:F1:32:TYR:CZ	2.89	0.41
2:A1:110:ARG:O	2:A1:113:MET:HB2	2.21	0.41
2:E1:32:TYR:HB3	2:E1:34:PHE:CE1	2.56	0.41
2:E1:272:MET:HE3	2:E1:273:VAL:O	2.21	0.41
2:F1:20:ASP:OD1	2:F1:25:ARG:NH1	2.54	0.41
2:F1:84:VAL:HG23	2:F1:317:GLU:OE2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:62:VAL:HG23	2:G2:314:PRO:HB3	2.02	0.41
2:A2:137:LYS:HE2	2:A2:139:LYS:HB2	2.03	0.41
2:C2:48:VAL:HG23	2:C2:50:MET:HB2	2.03	0.41
2:C2:148:ASP:HA	2:C2:149:PRO:HD3	1.98	0.41
2:D2:127:GLU:OE2	2:D2:327:MET:HB3	2.21	0.41
2:D2:272:MET:HE3	2:D2:273:VAL:O	2.21	0.41
2:E2:110:ARG:O	2:E2:113:MET:HB2	2.21	0.41
2:F2:16:LYS:HA	2:F2:18:LYS:NZ	2.36	0.41
2:F2:110:ARG:O	2:F2:113:MET:HB2	2.21	0.41
2:G3:32:TYR:HB3	2:G3:34:PHE:CE1	2.56	0.41
2:G3:84:VAL:HG11	2:G3:112:ILE:HG22	2.01	0.41
2:C3:20:ASP:OD1	2:C3:25:ARG:NH1	2.54	0.41
2:C3:133:SER:HB2	2:C3:137:LYS:NZ	2.36	0.41
2:C3:256:GLN:HA	2:C3:265:ASN:HA	2.01	0.41
2:D3:32:TYR:HB3	2:D3:34:PHE:CE1	2.56	0.41
2:E3:16:LYS:HA	2:E3:18:LYS:NZ	2.36	0.41
2:F3:84:VAL:HG23	2:F3:317:GLU:OE2	2.21	0.41
2:F3:110:ARG:O	2:F3:113:MET:HB2	2.21	0.41
2:A4:84:VAL:HG23	2:A4:317:GLU:OE2	2.21	0.41
2:C4:16:LYS:HA	2:C4:18:LYS:NZ	2.36	0.41
2:C4:20:ASP:OD1	2:C4:25:ARG:NH1	2.54	0.41
2:E4:16:LYS:HA	2:E4:18:LYS:NZ	2.36	0.41
2:F4:291:ALA:O	2:F4:295:ARG:HD2	2.21	0.41
1:B:456:ASP:O	1:b:459:LYS:NZ	2.44	0.40
1:B:462:GLN:NE2	1:b5:461:VAL:HG21	2.36	0.40
1:b:368:VAL:CG1	1:b:396:PHE:HZ	2.31	0.40
1:b:372:GLN:HA	1:b:375:ARG:HA	2.03	0.40
1:b:395:TYR:HB3	1:b:399:ARG:NH2	2.36	0.40
1:B1:88:LEU:HG	1:B1:112:GLU:OE2	2.21	0.40
1:B1:374:SER:CB	1:b1:361:TYR:HA	2.51	0.40
1:b1:88:LEU:HD13	1:b1:447:TRP:CZ2	2.56	0.40
1:b1:208:GLU:HG2	1:b1:218:LYS:NZ	2.36	0.40
1:b1:370:TYR:C	1:b1:372:GLN:H	2.29	0.40
1:b1:372:GLN:HA	1:b1:375:ARG:HA	2.03	0.40
1:b1:417:GLU:HA	1:b1:435:PHE:HE2	1.86	0.40
1:B2:88:LEU:HD13	1:B2:447:TRP:CZ2	2.56	0.40
1:b2:72:ASN:OD1	1:B3:365:GLY:HA2	2.21	0.40
1:b2:211:TYR:O	1:b2:215:MET:HE2	2.21	0.40
1:b2:374:SER:C	1:B3:360:ARG:HD2	2.44	0.40
1:B3:212:PRO:C	1:B3:214:TRP:H	2.28	0.40
1:B3:320:ALA:C	1:B3:322:PRO:HD2	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b3:88:LEU:HD13	1:b3:447:TRP:CZ2	2.56	0.40
1:B4:88:LEU:HD13	1:B4:447:TRP:CZ2	2.56	0.40
1:B4:370:TYR:C	1:B4:372:GLN:H	2.29	0.40
1:B5:208:GLU:HG2	1:B5:218:LYS:NZ	2.36	0.40
1:B5:374:SER:C	1:b5:360:ARG:HD2	2.44	0.40
1:B5:500:ARG:HA	1:B5:505:LEU:HB2	2.02	0.40
2:A0:73:PHE:HB2	2:A0:326:LEU:HD21	2.01	0.40
2:A0:84:VAL:HG23	2:A0:317:GLU:OE2	2.21	0.40
2:G0:16:LYS:HA	2:G0:18:LYS:NZ	2.36	0.40
2:G0:306:LYS:HG2	2:G0:320:MET:HB3	2.03	0.40
2:D0:84:VAL:HG23	2:D0:317:GLU:OE2	2.21	0.40
2:D0:133:SER:HB2	2:D0:137:LYS:NZ	2.36	0.40
2:D0:291:ALA:O	2:D0:295:ARG:HD2	2.21	0.40
2:E0:30:GLU:HB2	2:E0:280:ARG:NE	2.35	0.40
2:E0:84:VAL:HG23	2:E0:317:GLU:OE2	2.21	0.40
2:E0:168:THR:HB	2:E0:173:ARG:NH2	2.37	0.40
2:E0:272:MET:HE3	2:E0:273:VAL:O	2.21	0.40
2:F0:44:ILE:HG22	2:F0:46:GLY:H	1.86	0.40
2:F0:306:LYS:HG2	2:F0:320:MET:HB3	2.03	0.40
2:A1:148:ASP:HA	2:A1:149:PRO:HD3	1.98	0.40
2:G1:168:THR:HB	2:G1:173:ARG:NH2	2.36	0.40
2:C1:20:ASP:OD1	2:C1:25:ARG:NH1	2.54	0.40
2:E1:181:THR:O	2:E1:185:GLU:OE1	2.38	0.40
2:E1:215:LYS:HE2	2:E1:215:LYS:HB3	1.79	0.40
2:F1:32:TYR:HB3	2:F1:34:PHE:CE1	2.56	0.40
2:F1:127:GLU:OE2	2:F1:327:MET:HB3	2.21	0.40
2:F1:168:THR:HB	2:F1:173:ARG:NH2	2.36	0.40
2:A2:215:LYS:HB3	2:A2:215:LYS:HE2	1.79	0.40
2:G2:30:GLU:HA	2:C2:91:ARG:HH12	1.83	0.40
2:G2:137:LYS:HE2	2:G2:139:LYS:HB2	2.03	0.40
2:G2:165:SER:CB	2:G2:339:GLN:HE22	2.34	0.40
2:G2:272:MET:HE3	2:G2:273:VAL:O	2.21	0.40
2:G2:291:ALA:O	2:G2:295:ARG:HD2	2.21	0.40
2:C2:35:THR:HG22	2:C2:35:THR:O	2.22	0.40
2:C2:305:PRO:HA	2:C2:321:ILE:HD13	2.01	0.40
2:C2:306:LYS:HG2	2:C2:320:MET:HB3	2.04	0.40
2:D2:32:TYR:HB3	2:D2:34:PHE:CE1	2.56	0.40
2:D2:326:LEU:HD12	2:D2:326:LEU:HA	1.94	0.40
2:F2:33:PRO:CA	2:F2:285:TYR:HB2	2.46	0.40
2:A3:32:TYR:HB3	2:A3:34:PHE:CE1	2.56	0.40
2:A3:172:LYS:HE3	2:A3:172:LYS:HB3	1.96	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G3:20:ASP:HA	2:G3:21:PRO:HD3	1.95	0.40
2:G3:33:PRO:CA	2:G3:285:TYR:HB2	2.46	0.40
2:G3:84:VAL:HG23	2:G3:317:GLU:OE2	2.21	0.40
2:G3:221:ARG:HH12	2:F3:221:ARG:HG3	1.87	0.40
2:G3:326:LEU:HD12	2:G3:326:LEU:HA	1.94	0.40
2:D3:110:ARG:O	2:D3:113:MET:HB2	2.21	0.40
2:E3:137:LYS:HE2	2:E3:139:LYS:HB2	2.03	0.40
2:F3:76:GLY:HA2	2:F3:142:MET:CE	2.41	0.40
2:F3:104:PRO:HA	2:F3:107:ARG:CG	2.48	0.40
2:A4:272:MET:HE3	2:A4:273:VAL:O	2.21	0.40
2:C4:133:SER:HB2	2:C4:137:LYS:NZ	2.36	0.40
2:E4:84:VAL:HG23	2:E4:317:GLU:OE2	2.21	0.40
2:E4:272:MET:HE3	2:E4:273:VAL:O	2.21	0.40
1:B:208:GLU:HG2	1:B:218:LYS:NZ	2.36	0.40
1:B:372:GLN:HA	1:B:375:ARG:HA	2.03	0.40
1:b:158:ASP:OD1	1:b:159:THR:N	2.55	0.40
1:b:208:GLU:HG2	1:b:218:LYS:NZ	2.36	0.40
1:b1:278:TYR:CE2	1:B2:274:VAL:HG21	2.56	0.40
1:b1:381:SER:OG	1:b1:384:THR:OG1	2.36	0.40
1:B2:166:ARG:HB2	1:B2:422:ARG:NH2	2.36	0.40
1:B2:417:GLU:HA	1:B2:435:PHE:HE2	1.87	0.40
1:B2:475:TYR:HH	1:B2:490:PHE:HE2	1.70	0.40
1:b2:88:LEU:HD13	1:b2:447:TRP:CZ2	2.56	0.40
1:b2:214:TRP:HZ2	1:B3:186:SER:HA	1.86	0.40
1:b2:500:ARG:NE	1:b2:505:LEU:HB3	2.35	0.40
1:B3:81:ILE:HA	1:B3:400:ARG:HE	1.87	0.40
1:B3:86:PHE:HE2	1:B3:408:ALA:HB2	1.85	0.40
1:b3:81:ILE:HA	1:b3:400:ARG:HE	1.87	0.40
1:B4:180:PRO:HD3	1:B4:205:TYR:CD2	2.55	0.40
1:B4:377:TYR:HE2	1:b4:371:GLU:CD	2.28	0.40
1:b4:130:ARG:HH12	1:b4:163:ARG:HH22	1.69	0.40
1:b4:208:GLU:HG2	1:b4:218:LYS:NZ	2.36	0.40
1:b4:211:TYR:O	1:b4:215:MET:HE2	2.21	0.40
1:b4:311:ILE:HD13	1:b4:311:ILE:HA	1.92	0.40
1:B5:368:VAL:CG1	1:B5:396:PHE:HZ	2.31	0.40
1:b5:208:GLU:HG2	1:b5:218:LYS:NZ	2.36	0.40
1:b5:455:ILE:HD12	1:b5:455:ILE:HA	2.00	0.40
2:A0:168:THR:HB	2:A0:173:ARG:NH2	2.37	0.40
2:G0:32:TYR:HB3	2:G0:34:PHE:CE1	2.56	0.40
2:G0:229:GLU:C	2:G0:233:LYS:HZ3	2.28	0.40
2:C0:272:MET:HE3	2:C0:273:VAL:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E0:44:ILE:HG22	2:E0:46:GLY:H	1.86	0.40
2:F0:137:LYS:HE2	2:F0:139:LYS:HB2	2.03	0.40
2:G1:127:GLU:OE2	2:G1:327:MET:HB3	2.21	0.40
2:C1:14:GLU:HB2	2:C1:16:LYS:HZ1	1.86	0.40
2:C1:127:GLU:OE2	2:C1:327:MET:HB3	2.21	0.40
2:D1:32:TYR:HB3	2:D1:34:PHE:CE1	2.56	0.40
2:D1:110:ARG:O	2:D1:113:MET:HB2	2.21	0.40
2:F1:256:GLN:HA	2:F1:265:ASN:HA	2.01	0.40
2:A2:30:GLU:HB2	2:A2:280:ARG:NE	2.35	0.40
2:A2:84:VAL:HG23	2:A2:317:GLU:OE2	2.21	0.40
2:G2:32:TYR:HB3	2:G2:34:PHE:CE1	2.56	0.40
2:G2:168:THR:HB	2:G2:173:ARG:NH2	2.36	0.40
2:C2:127:GLU:OE2	2:C2:327:MET:HB3	2.21	0.40
2:C2:165:SER:CB	2:C2:339:GLN:HE22	2.34	0.40
2:E2:127:GLU:OE2	2:E2:327:MET:HB3	2.21	0.40
2:E2:215:LYS:HE2	2:E2:215:LYS:HB3	1.79	0.40
2:F2:32:TYR:HB3	2:F2:34:PHE:CE1	2.56	0.40
2:F2:44:ILE:HG22	2:F2:46:GLY:H	1.86	0.40
2:F2:127:GLU:OE2	2:F2:327:MET:HB3	2.21	0.40
2:F2:165:SER:CB	2:F2:339:GLN:HE22	2.34	0.40
2:D3:84:VAL:HG23	2:D3:317:GLU:OE2	2.21	0.40
2:D3:306:LYS:HG2	2:D3:320:MET:HB3	2.04	0.40
2:E3:291:ALA:O	2:E3:295:ARG:HD2	2.21	0.40
2:F3:32:TYR:HB3	2:F3:34:PHE:CE1	2.56	0.40
2:F3:48:VAL:HG23	2:F3:50:MET:HB2	2.03	0.40
2:A4:32:TYR:HB3	2:A4:34:PHE:CE1	2.56	0.40
2:A4:258:VAL:HG12	2:A4:263:LYS:CB	2.52	0.40
2:G4:16:LYS:HA	2:G4:18:LYS:NZ	2.36	0.40
2:G4:168:THR:HB	2:G4:173:ARG:NH2	2.37	0.40
2:G4:221:ARG:HH12	2:F4:221:ARG:HG3	1.87	0.40
2:G4:326:LEU:HD12	2:G4:326:LEU:HA	1.94	0.40
2:C4:291:ALA:O	2:C4:295:ARG:HD2	2.21	0.40
2:D4:127:GLU:OE2	2:D4:327:MET:HB3	2.21	0.40
2:D4:137:LYS:HE2	2:D4:139:LYS:HB2	2.03	0.40
2:D4:272:MET:HE3	2:D4:273:VAL:O	2.21	0.40
2:E4:227:GLU:H	2:E4:227:GLU:CD	2.28	0.40
1:B:158:ASP:OD1	1:B:159:THR:N	2.54	0.40
1:b:374:SER:C	1:B1:360:ARG:HD2	2.43	0.40
1:B1:88:LEU:HD13	1:B1:447:TRP:CZ2	2.56	0.40
1:B1:91:ARG:NH2	1:B1:105:ARG:HA	2.30	0.40
1:B1:370:TYR:C	1:B1:372:GLN:H	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B2:81:ILE:HG23	1:B2:400:ARG:HG3	2.04	0.40
1:B2:91:ARG:NH2	1:B2:105:ARG:HA	2.30	0.40
1:B2:211:TYR:O	1:B2:215:MET:HE2	2.21	0.40
1:B2:212:PRO:C	1:B2:214:TRP:H	2.28	0.40
1:B2:372:GLN:HA	1:B2:375:ARG:HA	2.03	0.40
1:b2:208:GLU:HG2	1:b2:218:LYS:NZ	2.36	0.40
1:B3:211:TYR:O	1:B3:215:MET:HE2	2.21	0.40
1:B3:436:GLN:H	1:B3:436:GLN:HG2	1.69	0.40
1:b3:161:SER:HA	1:b3:166:ARG:CZ	2.50	0.40
1:b3:180:PRO:HD3	1:b3:205:TYR:CD2	2.55	0.40
1:B4:81:ILE:HA	1:B4:400:ARG:HE	1.87	0.40
1:B4:372:GLN:HA	1:B4:375:ARG:HA	2.03	0.40
1:B4:489:ILE:HD12	1:b4:474:THR:HG23	2.02	0.40
2:G0:30:GLU:C	2:C0:91:ARG:HH12	2.30	0.40
2:G0:110:ARG:O	2:G0:113:MET:HB2	2.21	0.40
2:G0:142:MET:HG3	2:G0:147:PHE:CE2	2.57	0.40
2:G0:221:ARG:NH1	2:F0:221:ARG:HD2	2.34	0.40
2:C0:30:GLU:CB	2:C0:281:GLY:O	2.63	0.40
2:E0:291:ALA:O	2:E0:295:ARG:HD2	2.21	0.40
2:F0:110:ARG:O	2:F0:113:MET:HB2	2.21	0.40
2:A1:84:VAL:HG23	2:A1:317:GLU:OE2	2.21	0.40
2:A1:168:THR:HB	2:A1:173:ARG:NH2	2.37	0.40
2:D1:127:GLU:OE2	2:D1:327:MET:HB3	2.21	0.40
2:E1:30:GLU:OE2	2:E1:32:TYR:OH	2.36	0.40
2:A2:32:TYR:HB3	2:A2:34:PHE:CE1	2.56	0.40
2:A2:142:MET:HG3	2:A2:147:PHE:CE2	2.57	0.40
2:A2:308:TRP:HZ3	2:A2:310:THR:HG1	1.70	0.40
2:G2:127:GLU:OE2	2:G2:327:MET:HB3	2.21	0.40
2:C2:119:GLU:HB3	2:C2:321:ILE:HG13	2.04	0.40
2:C2:168:THR:HB	2:C2:173:ARG:NH2	2.37	0.40
2:E2:35:THR:HG22	2:E2:35:THR:O	2.22	0.40
2:E2:137:LYS:HE2	2:E2:139:LYS:HB2	2.03	0.40
2:E2:142:MET:HG3	2:E2:147:PHE:CE2	2.57	0.40
2:A3:20:ASP:OD1	2:A3:25:ARG:NH1	2.54	0.40
2:A3:33:PRO:CA	2:A3:285:TYR:HB2	2.46	0.40
2:G3:127:GLU:OE2	2:G3:327:MET:HB3	2.21	0.40
2:C3:48:VAL:HG23	2:C3:50:MET:HB2	2.03	0.40
2:F3:44:ILE:HG22	2:F3:46:GLY:H	1.86	0.40
2:A4:48:VAL:HG23	2:A4:50:MET:HB2	2.02	0.40
2:A4:127:GLU:OE2	2:A4:327:MET:HB3	2.21	0.40
2:A4:137:LYS:HE2	2:A4:139:LYS:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G4:32:TYR:HB3	2:G4:34:PHE:CE1	2.56	0.40
2:G4:142:MET:HG3	2:G4:147:PHE:CE2	2.57	0.40
2:D4:20:ASP:OD1	2:D4:25:ARG:NH1	2.54	0.40
2:D4:110:ARG:O	2:D4:113:MET:HB2	2.21	0.40
2:E4:104:PRO:HA	2:E4:107:ARG:CG	2.48	0.40
2:E4:137:LYS:HE2	2:E4:139:LYS:HB2	2.03	0.40
2:F4:35:THR:HG22	2:F4:35:THR:O	2.22	0.40
2:F4:305:PRO:HA	2:F4:321:ILE:HD13	2.01	0.40
2:F4:306:LYS:HG2	2:F4:320:MET:HB3	2.03	0.40
1:b:374:SER:CB	1:B1:361:TYR:HA	2.51	0.40
1:B1:81:ILE:HG23	1:B1:400:ARG:HG3	2.03	0.40
1:B1:416:LEU:O	1:B1:420:ILE:HG12	2.22	0.40
1:b1:416:LEU:O	1:b1:420:ILE:HG12	2.22	0.40
1:B2:130:ARG:HH12	1:B2:163:ARG:HH22	1.69	0.40
1:b2:381:SER:O	1:b2:384:THR:HB	2.22	0.40
1:B3:208:GLU:HG2	1:B3:218:LYS:NZ	2.36	0.40
1:b3:372:GLN:HA	1:b3:375:ARG:HA	2.03	0.40
1:B4:166:ARG:HB2	1:B4:422:ARG:NH2	2.36	0.40
1:B4:417:GLU:HA	1:B4:435:PHE:HE2	1.86	0.40
1:b4:81:ILE:HA	1:b4:400:ARG:HE	1.87	0.40
1:B5:127:ASP:O	1:B5:168:GLN:NE2	2.55	0.40
1:b5:127:ASP:O	1:b5:168:GLN:NE2	2.55	0.40
2:A0:35:THR:O	2:A0:35:THR:HG22	2.22	0.40
2:A0:165:SER:CB	2:A0:339:GLN:HE22	2.34	0.40
2:G0:295:ARG:NH1	2:G0:296:GLU:HB3	2.35	0.40
2:C0:20:ASP:OD1	2:C0:25:ARG:NH1	2.54	0.40
2:C0:35:THR:HG22	2:C0:35:THR:O	2.22	0.40
2:C0:64:ARG:H	2:C0:66:ARG:NH1	2.11	0.40
2:C0:84:VAL:HG23	2:C0:317:GLU:OE2	2.21	0.40
2:C0:168:THR:HB	2:C0:173:ARG:NH2	2.37	0.40
2:C0:291:ALA:O	2:C0:295:ARG:HD2	2.21	0.40
2:D0:16:LYS:HA	2:D0:18:LYS:NZ	2.36	0.40
2:D0:32:TYR:HB3	2:D0:34:PHE:CE1	2.56	0.40
2:D0:35:THR:O	2:D0:35:THR:HG22	2.22	0.40
2:D0:64:ARG:H	2:D0:66:ARG:NH1	2.11	0.40
2:E0:133:SER:HB2	2:E0:137:LYS:NZ	2.36	0.40
2:F0:16:LYS:HA	2:F0:18:LYS:NZ	2.36	0.40
2:F0:48:VAL:HG23	2:F0:50:MET:HB2	2.03	0.40
2:F0:272:MET:HE3	2:F0:273:VAL:O	2.21	0.40
2:A1:133:SER:HB2	2:A1:137:LYS:NZ	2.36	0.40
2:G1:104:PRO:HA	2:G1:107:ARG:CG	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G1:221:ARG:NH1	2:F1:221:ARG:HD2	2.34	0.40
2:G1:272:MET:HE3	2:G1:273:VAL:O	2.21	0.40
2:C1:35:THR:HG22	2:C1:35:THR:O	2.22	0.40
2:C1:165:SER:CB	2:C1:339:GLN:HE22	2.34	0.40
2:D1:168:THR:HB	2:D1:173:ARG:NH2	2.37	0.40
2:F1:142:MET:HG3	2:F1:147:PHE:CE2	2.57	0.40
2:A2:16:LYS:HA	2:A2:18:LYS:NZ	2.36	0.40
2:A2:258:VAL:HG12	2:A2:263:LYS:CB	2.52	0.40
2:G2:221:ARG:NH1	2:F2:221:ARG:HD2	2.34	0.40
2:G2:221:ARG:HH12	2:F2:221:ARG:HG3	1.86	0.40
2:C2:20:ASP:OD1	2:C2:25:ARG:NH1	2.54	0.40
2:C2:32:TYR:HB3	2:C2:34:PHE:CE1	2.56	0.40
2:E2:133:SER:HB2	2:E2:137:LYS:NZ	2.36	0.40
2:E2:168:THR:HB	2:E2:173:ARG:NH2	2.36	0.40
2:F2:137:LYS:HE2	2:F2:139:LYS:HB2	2.03	0.40
2:A3:168:THR:HB	2:A3:173:ARG:NH2	2.37	0.40
2:A3:291:ALA:O	2:A3:295:ARG:HD2	2.21	0.40
2:G3:44:ILE:HG22	2:G3:46:GLY:H	1.86	0.40
2:G3:174:ASP:OD2	2:G3:177:THR:OG1	2.27	0.40
2:C3:165:SER:CB	2:C3:339:GLN:HE22	2.34	0.40
2:C3:168:THR:HB	2:C3:173:ARG:NH2	2.37	0.40
2:C3:229:GLU:C	2:C3:233:LYS:HZ3	2.29	0.40
2:D3:33:PRO:CA	2:D3:285:TYR:HB2	2.46	0.40
2:D3:168:THR:HB	2:D3:173:ARG:NH2	2.37	0.40
2:E3:258:VAL:HG12	2:E3:263:LYS:CB	2.52	0.40
2:F3:20:ASP:OD1	2:F3:25:ARG:NH1	2.54	0.40
2:F3:142:MET:HG3	2:F3:147:PHE:CE2	2.57	0.40
2:A4:133:SER:HB2	2:A4:137:LYS:NZ	2.36	0.40
2:C4:32:TYR:HB3	2:C4:34:PHE:CE1	2.56	0.40
2:C4:35:THR:HG22	2:C4:35:THR:O	2.22	0.40
2:F4:127:GLU:OE2	2:F4:327:MET:HB3	2.21	0.40
1:B:161:SER:HA	1:B:166:ARG:CZ	2.50	0.40
1:B:370:TYR:C	1:B:372:GLN:H	2.29	0.40
1:B:374:SER:HB2	1:b:361:TYR:HA	2.03	0.40
1:B:381:SER:O	1:B:384:THR:HB	2.22	0.40
1:b:61:ASP:HA	1:b:64:VAL:HG22	2.03	0.40
1:b:381:SER:O	1:b:384:THR:HB	2.22	0.40
1:B1:92:PRO:O	1:B1:94:TRP:N	2.55	0.40
1:B1:214:TRP:HZ2	1:b1:186:SER:HA	1.86	0.40
1:B2:416:LEU:O	1:B2:420:ILE:HG12	2.22	0.40
1:B2:418:GLU:CG	1:B2:422:ARG:HE	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B2:436:GLN:H	1:B2:436:GLN:HG2	1.69	0.40
1:b2:81:ILE:HA	1:b2:400:ARG:HE	1.87	0.40
1:b2:372:GLN:HA	1:b2:375:ARG:HA	2.03	0.40
1:b2:417:GLU:HA	1:b2:435:PHE:HE2	1.86	0.40
1:b2:461:VAL:HG21	1:B3:462:GLN:NE2	2.36	0.40
1:b2:466:MET:SD	1:b2:472:LEU:HD12	2.62	0.40
1:B3:372:GLN:HA	1:B3:375:ARG:HA	2.03	0.40
1:B3:381:SER:O	1:B3:384:THR:HB	2.22	0.40
1:b3:61:ASP:HA	1:b3:64:VAL:HG22	2.03	0.40
1:b3:455:ILE:HD12	1:b3:455:ILE:HA	2.00	0.40
1:B4:214:TRP:HZ2	1:b4:186:SER:HA	1.86	0.40
1:B4:466:MET:SD	1:B4:472:LEU:HD12	2.62	0.40
1:B4:503:ALA:O	1:b4:494:VAL:HG22	2.21	0.40
1:b4:88:LEU:HD13	1:b4:447:TRP:CZ2	2.56	0.40
1:b4:417:GLU:HA	1:b4:435:PHE:HE2	1.86	0.40
1:b5:381:SER:O	1:b5:384:THR:HB	2.22	0.40
2:A0:77:TYR:CD2	2:A0:324:ALA:HB2	2.49	0.40
2:G0:35:THR:O	2:G0:35:THR:HG22	2.22	0.40
2:C0:40:TYR:HD2	2:A4:72:GLU:CG	2.33	0.40
2:C0:110:ARG:O	2:C0:113:MET:HB2	2.21	0.40
2:C0:119:GLU:HB3	2:C0:321:ILE:HG13	2.04	0.40
2:C0:256:GLN:HA	2:C0:265:ASN:HA	2.02	0.40
2:E0:35:THR:O	2:E0:35:THR:HG22	2.22	0.40
2:E0:258:VAL:HG12	2:E0:263:LYS:CB	2.52	0.40
2:F0:104:PRO:HA	2:F0:107:ARG:CG	2.48	0.40
2:G1:35:THR:O	2:G1:35:THR:HG22	2.22	0.40
2:D1:142:MET:HG3	2:D1:147:PHE:CE2	2.57	0.40
2:E1:48:VAL:HG23	2:E1:50:MET:HB2	2.03	0.40
2:E1:142:MET:HG3	2:E1:147:PHE:CE2	2.57	0.40
2:G2:63:ILE:CG2	2:C2:82:HIS:HE1	2.35	0.40
2:G2:110:ARG:O	2:G2:113:MET:HB2	2.21	0.40
2:C2:16:LYS:HA	2:C2:18:LYS:NZ	2.36	0.40
2:C2:142:MET:HG3	2:C2:147:PHE:CE2	2.57	0.40
2:D2:35:THR:HG22	2:D2:35:THR:O	2.22	0.40
2:D2:165:SER:CB	2:D2:339:GLN:HE22	2.34	0.40
2:E2:291:ALA:O	2:E2:295:ARG:HD2	2.21	0.40
2:F2:48:VAL:HG23	2:F2:50:MET:HB2	2.03	0.40
2:G3:20:ASP:OD1	2:G3:25:ARG:NH1	2.54	0.40
2:G3:119:GLU:HB3	2:G3:321:ILE:HG13	2.04	0.40
2:C3:16:LYS:HA	2:C3:18:LYS:NZ	2.36	0.40
2:C3:32:TYR:HB3	2:C3:34:PHE:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E3:20:ASP:OD1	2:E3:25:ARG:NH1	2.54	0.40
2:E3:168:THR:HB	2:E3:173:ARG:NH2	2.36	0.40
2:F3:272:MET:HE3	2:F3:273:VAL:O	2.21	0.40
2:C4:48:VAL:HG23	2:C4:50:MET:HB2	2.03	0.40
2:E4:35:THR:O	2:E4:35:THR:HG22	2.22	0.40
2:E4:44:ILE:HG22	2:E4:46:GLY:H	1.86	0.40
2:E4:56:PRO:HA	2:F4:79:LYS:NZ	2.37	0.40
2:E4:110:ARG:O	2:E4:113:MET:HB2	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	472/533 (89%)	436 (92%)	33 (7%)	3 (1%)	21	59
1	B1	472/533 (89%)	436 (92%)	33 (7%)	3 (1%)	21	59
1	B2	472/533 (89%)	437 (93%)	32 (7%)	3 (1%)	21	59
1	B3	472/533 (89%)	436 (92%)	33 (7%)	3 (1%)	21	59
1	B4	472/533 (89%)	437 (93%)	32 (7%)	3 (1%)	21	59
1	B5	472/533 (89%)	437 (93%)	32 (7%)	3 (1%)	21	59
1	b	472/533 (89%)	436 (92%)	33 (7%)	3 (1%)	21	59
1	b1	472/533 (89%)	436 (92%)	33 (7%)	3 (1%)	21	59
1	b2	472/533 (89%)	436 (92%)	33 (7%)	3 (1%)	21	59
1	b3	472/533 (89%)	437 (93%)	32 (7%)	3 (1%)	21	59
1	b4	472/533 (89%)	436 (92%)	33 (7%)	3 (1%)	21	59
1	b5	472/533 (89%)	437 (93%)	32 (7%)	3 (1%)	21	59
2	A0	333/341 (98%)	288 (86%)	45 (14%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	A1	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	A2	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	A3	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	A4	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	C0	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	C1	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	C2	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	C3	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	C4	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	D0	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	D1	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	D2	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	D3	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	D4	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	E0	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	E1	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	E2	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	E3	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	E4	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	F0	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	F1	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	F2	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	F3	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	F4	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	G0	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	G1	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	G2	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	G3	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
2	G4	333/341 (98%)	288 (86%)	45 (14%)	0	100	100
All	All	15654/16626 (94%)	13877 (89%)	1741 (11%)	36 (0%)	44	77

All (36) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	322	PRO
1	b	322	PRO
1	B1	322	PRO
1	b1	322	PRO
1	B2	322	PRO
1	b2	322	PRO
1	B3	322	PRO
1	b3	322	PRO
1	B4	322	PRO
1	b4	322	PRO
1	B5	322	PRO
1	b5	322	PRO
1	B	289	GLN
1	b	289	GLN
1	B1	289	GLN
1	b1	289	GLN
1	B2	289	GLN
1	b2	289	GLN
1	B3	289	GLN
1	b3	289	GLN
1	B4	289	GLN
1	b4	289	GLN
1	B5	289	GLN
1	b5	289	GLN
1	B	286	LEU
1	b	286	LEU
1	B1	286	LEU
1	b1	286	LEU
1	B2	286	LEU
1	b2	286	LEU
1	B3	286	LEU
1	b3	286	LEU
1	B4	286	LEU
1	b4	286	LEU
1	B5	286	LEU
1	b5	286	LEU

5.3.2 Protein sidechains (i)

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

The Analysed column shows the number of residues for which the sidechain conformation was

analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	373/428 (87%)	373 (100%)	0	100	100
1	B1	373/428 (87%)	373 (100%)	0	100	100
1	B2	373/428 (87%)	373 (100%)	0	100	100
1	B3	373/428 (87%)	373 (100%)	0	100	100
1	B4	373/428 (87%)	373 (100%)	0	100	100
1	B5	373/428 (87%)	373 (100%)	0	100	100
1	b	373/428 (87%)	373 (100%)	0	100	100
1	b1	373/428 (87%)	373 (100%)	0	100	100
1	b2	373/428 (87%)	373 (100%)	0	100	100
1	b3	373/428 (87%)	373 (100%)	0	100	100
1	b4	373/428 (87%)	373 (100%)	0	100	100
1	b5	373/428 (87%)	373 (100%)	0	100	100
2	A0	284/290 (98%)	284 (100%)	0	100	100
2	A1	284/290 (98%)	284 (100%)	0	100	100
2	A2	284/290 (98%)	284 (100%)	0	100	100
2	A3	284/290 (98%)	284 (100%)	0	100	100
2	A4	284/290 (98%)	284 (100%)	0	100	100
2	C0	284/290 (98%)	284 (100%)	0	100	100
2	C1	284/290 (98%)	284 (100%)	0	100	100
2	C2	284/290 (98%)	284 (100%)	0	100	100
2	C3	284/290 (98%)	284 (100%)	0	100	100
2	C4	284/290 (98%)	284 (100%)	0	100	100
2	D0	284/290 (98%)	284 (100%)	0	100	100
2	D1	284/290 (98%)	284 (100%)	0	100	100
2	D2	284/290 (98%)	284 (100%)	0	100	100
2	D3	284/290 (98%)	284 (100%)	0	100	100
2	D4	284/290 (98%)	284 (100%)	0	100	100
2	E0	284/290 (98%)	284 (100%)	0	100	100
2	E1	284/290 (98%)	284 (100%)	0	100	100
2	E2	284/290 (98%)	284 (100%)	0	100	100
2	E3	284/290 (98%)	284 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	E4	284/290 (98%)	284 (100%)	0	100	100
2	F0	284/290 (98%)	284 (100%)	0	100	100
2	F1	284/290 (98%)	284 (100%)	0	100	100
2	F2	284/290 (98%)	284 (100%)	0	100	100
2	F3	284/290 (98%)	284 (100%)	0	100	100
2	F4	284/290 (98%)	284 (100%)	0	100	100
2	G0	284/290 (98%)	284 (100%)	0	100	100
2	G1	284/290 (98%)	284 (100%)	0	100	100
2	G2	284/290 (98%)	284 (100%)	0	100	100
2	G3	284/290 (98%)	284 (100%)	0	100	100
2	G4	284/290 (98%)	284 (100%)	0	100	100
All	All	12996/13836 (94%)	12996 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (352) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	34	GLN
1	B	75	GLN
1	B	78	GLN
1	B	145	HIS
1	B	265	GLN
1	B	266	ASN
1	B	356	GLN
1	b	34	GLN
1	b	78	GLN
1	b	145	HIS
1	b	265	GLN
1	b	266	ASN
1	b	356	GLN
1	b	493	GLN
1	B1	34	GLN
1	B1	75	GLN
1	B1	78	GLN
1	B1	145	HIS
1	B1	265	GLN
1	B1	266	ASN

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Mol	Chain	Res	Type
1	B1	356	GLN
1	B1	493	GLN
1	b1	34	GLN
1	b1	75	GLN
1	b1	78	GLN
1	b1	145	HIS
1	b1	265	GLN
1	b1	266	ASN
1	b1	356	GLN
1	B2	34	GLN
1	B2	39	ASN
1	B2	75	GLN
1	B2	78	GLN
1	B2	145	HIS
1	B2	265	GLN
1	B2	266	ASN
1	B2	356	GLN
1	b2	34	GLN
1	b2	75	GLN
1	b2	78	GLN
1	b2	145	HIS
1	b2	181	ASN
1	b2	265	GLN
1	b2	266	ASN
1	b2	356	GLN
1	b2	493	GLN
1	B3	34	GLN
1	B3	75	GLN
1	B3	78	GLN
1	B3	145	HIS
1	B3	265	GLN
1	B3	266	ASN
1	B3	356	GLN
1	b3	34	GLN
1	b3	75	GLN
1	b3	78	GLN
1	b3	145	HIS
1	b3	265	GLN
1	b3	266	ASN
1	b3	356	GLN
1	b3	493	GLN
1	B4	34	GLN

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Mol	Chain	Res	Type
1	B4	78	GLN
1	B4	145	HIS
1	B4	265	GLN
1	B4	266	ASN
1	B4	356	GLN
1	b4	34	GLN
1	b4	78	GLN
1	b4	145	HIS
1	b4	265	GLN
1	b4	266	ASN
1	b4	356	GLN
1	b4	493	GLN
1	B5	34	GLN
1	B5	75	GLN
1	B5	78	GLN
1	B5	145	HIS
1	B5	265	GLN
1	B5	266	ASN
1	B5	356	GLN
1	B5	493	GLN
1	b5	34	GLN
1	b5	75	GLN
1	b5	78	GLN
1	b5	145	HIS
1	b5	265	GLN
1	b5	266	ASN
1	b5	356	GLN
1	b5	493	GLN
2	A0	15	GLN
2	A0	82	HIS
2	A0	87	GLN
2	A0	114	GLN
2	A0	115	ASN
2	A0	161	ASN
2	A0	289	GLN
2	A0	299	ASN
2	A0	339	GLN
2	G0	15	GLN
2	G0	87	GLN
2	G0	115	ASN
2	G0	161	ASN
2	G0	289	GLN

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Mol	Chain	Res	Type
2	G0	299	ASN
2	G0	339	GLN
2	C0	15	GLN
2	C0	82	HIS
2	C0	87	GLN
2	C0	114	GLN
2	C0	115	ASN
2	C0	161	ASN
2	C0	256	GLN
2	C0	289	GLN
2	C0	299	ASN
2	C0	339	GLN
2	D0	15	GLN
2	D0	87	GLN
2	D0	114	GLN
2	D0	115	ASN
2	D0	161	ASN
2	D0	276	ASN
2	D0	289	GLN
2	D0	299	ASN
2	D0	339	GLN
2	E0	15	GLN
2	E0	114	GLN
2	E0	115	ASN
2	E0	161	ASN
2	E0	289	GLN
2	E0	299	ASN
2	E0	339	GLN
2	F0	15	GLN
2	F0	43	GLN
2	F0	82	HIS
2	F0	87	GLN
2	F0	114	GLN
2	F0	115	ASN
2	F0	161	ASN
2	F0	289	GLN
2	F0	299	ASN
2	F0	339	GLN
2	A1	15	GLN
2	A1	82	HIS
2	A1	114	GLN
2	A1	115	ASN

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Mol	Chain	Res	Type
2	A1	161	ASN
2	A1	289	GLN
2	A1	299	ASN
2	A1	339	GLN
2	G1	15	GLN
2	G1	87	GLN
2	G1	114	GLN
2	G1	115	ASN
2	G1	161	ASN
2	G1	289	GLN
2	G1	299	ASN
2	G1	339	GLN
2	C1	15	GLN
2	C1	82	HIS
2	C1	87	GLN
2	C1	114	GLN
2	C1	115	ASN
2	C1	161	ASN
2	C1	256	GLN
2	C1	289	GLN
2	C1	299	ASN
2	C1	339	GLN
2	D1	15	GLN
2	D1	114	GLN
2	D1	115	ASN
2	D1	161	ASN
2	D1	276	ASN
2	D1	289	GLN
2	D1	299	ASN
2	D1	339	GLN
2	E1	15	GLN
2	E1	114	GLN
2	E1	115	ASN
2	E1	161	ASN
2	E1	289	GLN
2	E1	299	ASN
2	E1	339	GLN
2	F1	15	GLN
2	F1	43	GLN
2	F1	82	HIS
2	F1	87	GLN
2	F1	114	GLN

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Mol	Chain	Res	Type
2	F1	115	ASN
2	F1	161	ASN
2	F1	289	GLN
2	F1	299	ASN
2	F1	339	GLN
2	A2	15	GLN
2	A2	82	HIS
2	A2	114	GLN
2	A2	115	ASN
2	A2	161	ASN
2	A2	289	GLN
2	A2	299	ASN
2	A2	339	GLN
2	G2	15	GLN
2	G2	87	GLN
2	G2	114	GLN
2	G2	115	ASN
2	G2	161	ASN
2	G2	289	GLN
2	G2	299	ASN
2	G2	339	GLN
2	C2	15	GLN
2	C2	82	HIS
2	C2	87	GLN
2	C2	114	GLN
2	C2	115	ASN
2	C2	161	ASN
2	C2	256	GLN
2	C2	289	GLN
2	C2	299	ASN
2	C2	339	GLN
2	D2	15	GLN
2	D2	87	GLN
2	D2	115	ASN
2	D2	161	ASN
2	D2	276	ASN
2	D2	289	GLN
2	D2	299	ASN
2	D2	339	GLN
2	E2	15	GLN
2	E2	87	GLN
2	E2	114	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	E2	115	ASN
2	E2	161	ASN
2	E2	289	GLN
2	E2	299	ASN
2	E2	339	GLN
2	F2	15	GLN
2	F2	43	GLN
2	F2	82	HIS
2	F2	87	GLN
2	F2	114	GLN
2	F2	115	ASN
2	F2	161	ASN
2	F2	289	GLN
2	F2	299	ASN
2	F2	339	GLN
2	A3	15	GLN
2	A3	82	HIS
2	A3	87	GLN
2	A3	114	GLN
2	A3	115	ASN
2	A3	161	ASN
2	A3	276	ASN
2	A3	289	GLN
2	A3	299	ASN
2	A3	339	GLN
2	G3	15	GLN
2	G3	87	GLN
2	G3	114	GLN
2	G3	115	ASN
2	G3	161	ASN
2	G3	256	GLN
2	G3	289	GLN
2	G3	299	ASN
2	G3	339	GLN
2	C3	15	GLN
2	C3	82	HIS
2	C3	87	GLN
2	C3	114	GLN
2	C3	115	ASN
2	C3	161	ASN
2	C3	256	GLN
2	C3	289	GLN

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Continued from previous page...

Mol	Chain	Res	Type
2	C3	299	ASN
2	C3	339	GLN
2	D3	15	GLN
2	D3	87	GLN
2	D3	114	GLN
2	D3	115	ASN
2	D3	161	ASN
2	D3	276	ASN
2	D3	289	GLN
2	D3	299	ASN
2	D3	339	GLN
2	E3	15	GLN
2	E3	87	GLN
2	E3	114	GLN
2	E3	115	ASN
2	E3	161	ASN
2	E3	289	GLN
2	E3	299	ASN
2	E3	339	GLN
2	F3	15	GLN
2	F3	43	GLN
2	F3	82	HIS
2	F3	87	GLN
2	F3	114	GLN
2	F3	115	ASN
2	F3	161	ASN
2	F3	289	GLN
2	F3	299	ASN
2	F3	339	GLN
2	A4	15	GLN
2	A4	82	HIS
2	A4	87	GLN
2	A4	114	GLN
2	A4	115	ASN
2	A4	161	ASN
2	A4	289	GLN
2	A4	299	ASN
2	A4	339	GLN
2	G4	15	GLN
2	G4	87	GLN
2	G4	114	GLN
2	G4	115	ASN

Continued on next page...

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Mol	Chain	Res	Type
2	G4	161	ASN
2	G4	289	GLN
2	G4	299	ASN
2	G4	339	GLN
2	C4	15	GLN
2	C4	82	HIS
2	C4	87	GLN
2	C4	114	GLN
2	C4	115	ASN
2	C4	161	ASN
2	C4	256	GLN
2	C4	289	GLN
2	C4	299	ASN
2	C4	339	GLN
2	D4	15	GLN
2	D4	114	GLN
2	D4	115	ASN
2	D4	161	ASN
2	D4	276	ASN
2	D4	289	GLN
2	D4	299	ASN
2	D4	339	GLN
2	E4	15	GLN
2	E4	114	GLN
2	E4	115	ASN
2	E4	161	ASN
2	E4	289	GLN
2	E4	299	ASN
2	E4	339	GLN
2	F4	15	GLN
2	F4	82	HIS
2	F4	87	GLN
2	F4	114	GLN
2	F4	115	ASN
2	F4	161	ASN
2	F4	289	GLN
2	F4	299	ASN
2	F4	339	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no 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.

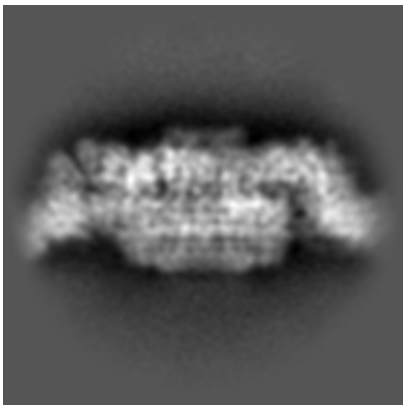
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-38541. These allow visual inspection of the internal detail of the map and identification of artifacts.

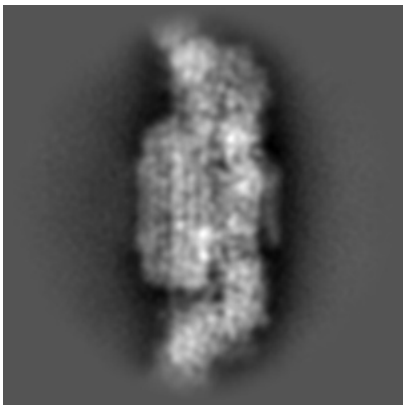
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

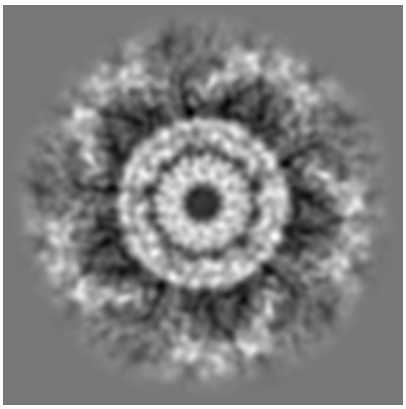
6.1.1 Primary map



X

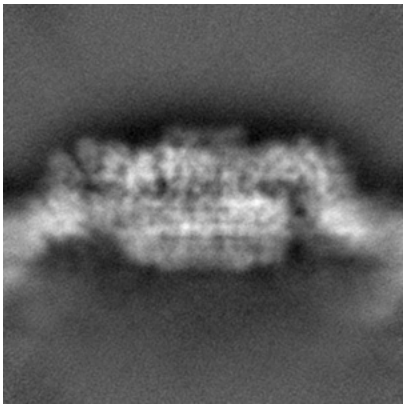


Y

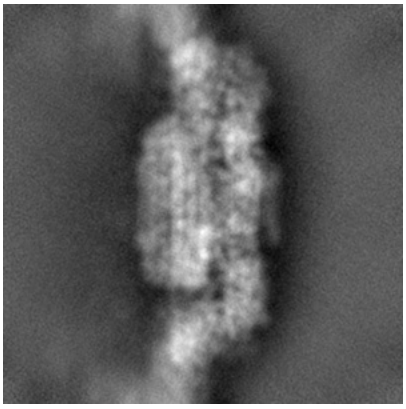


Z

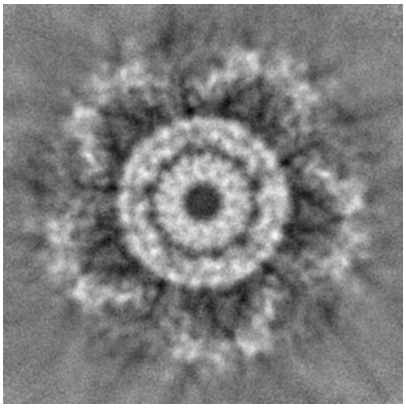
6.1.2 Raw map



X



Y

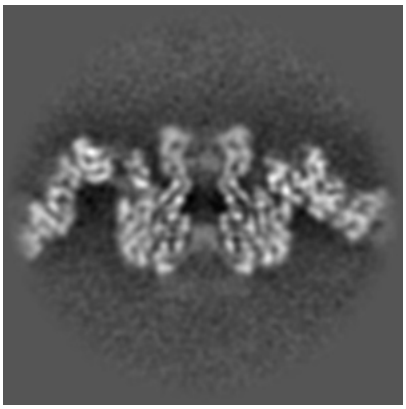


Z

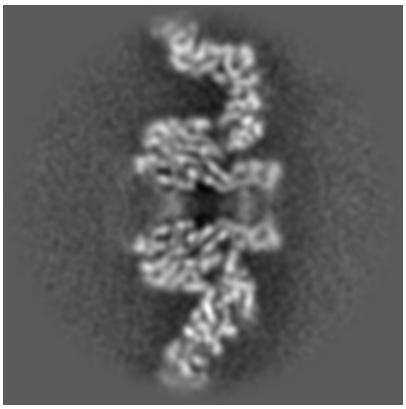
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

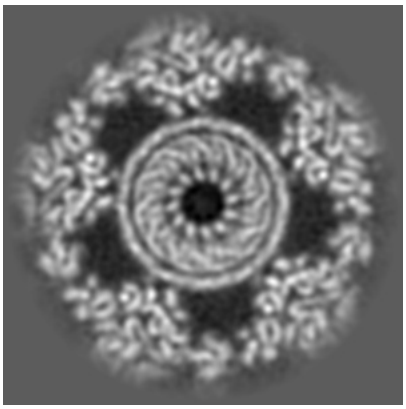
6.2.1 Primary map



X Index: 128

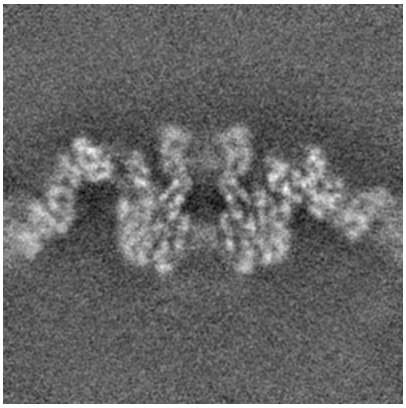


Y Index: 128

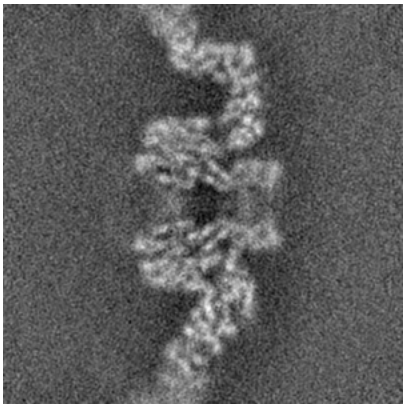


Z Index: 128

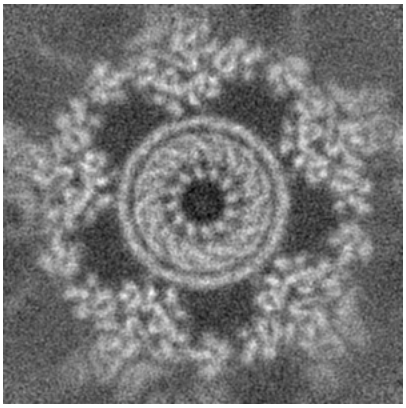
6.2.2 Raw map



X Index: 128



Y Index: 128

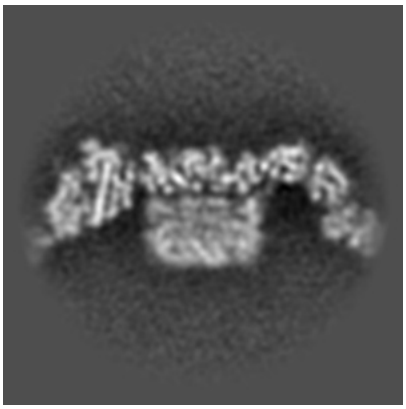


Z Index: 128

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

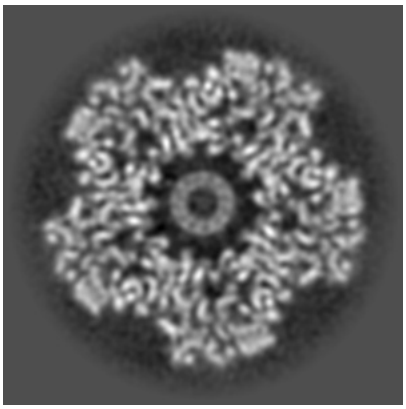
6.3 Largest variance slices (i)

6.3.1 Primary map



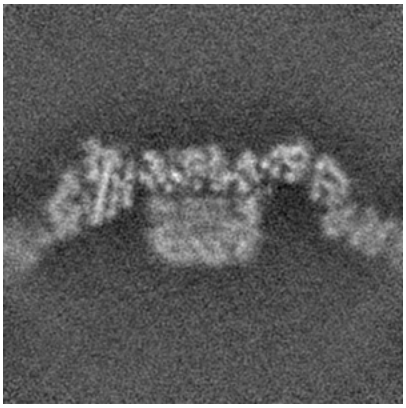
X Index: 169

Y Index: 106

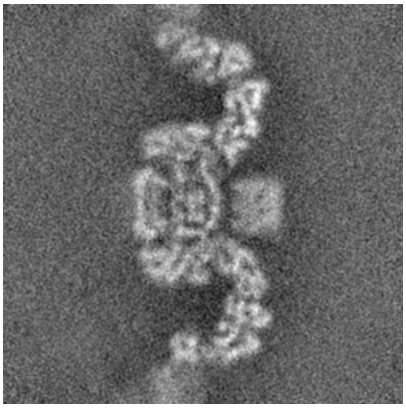


Z Index: 145

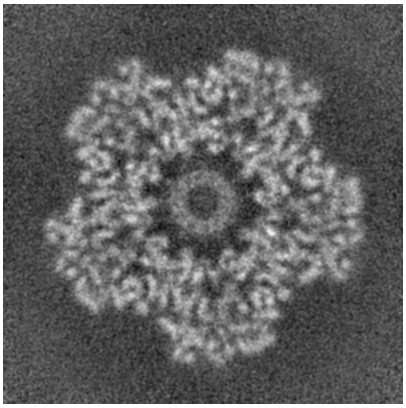
6.3.2 Raw map



X Index: 170



Y Index: 106

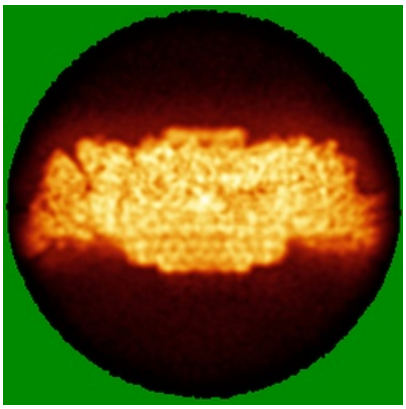


Z Index: 146

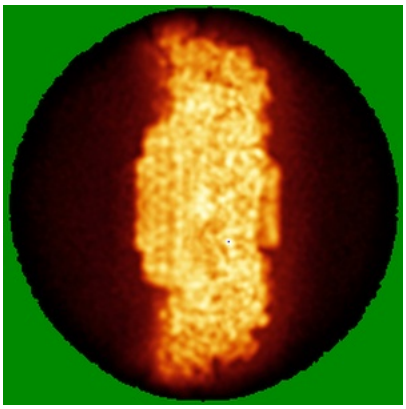
The images above show the largest variance slices of the map in three orthogonal directions.

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

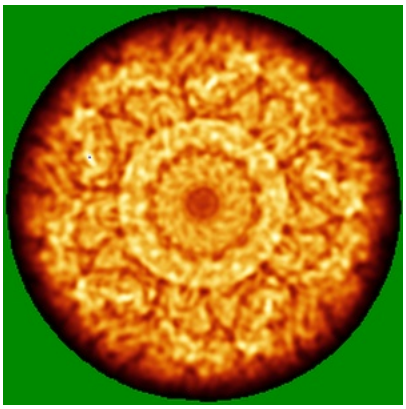
6.4.1 Primary map



X

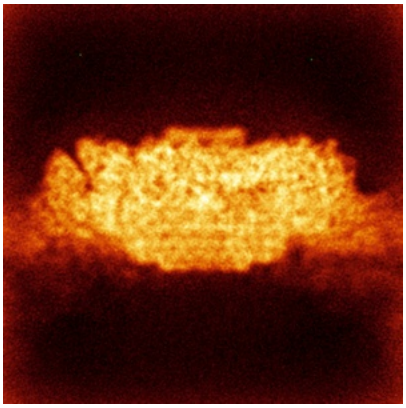


Y

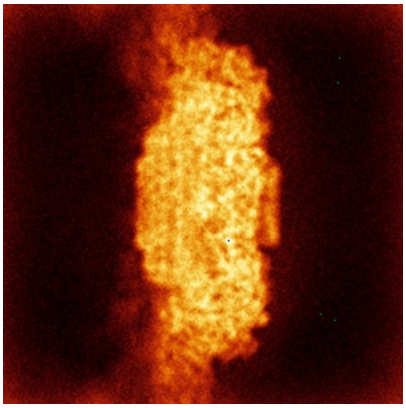


Z

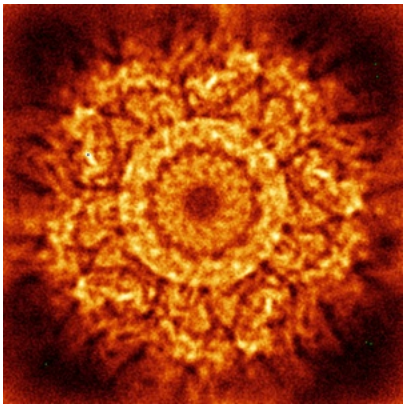
6.4.2 Raw map



X



Y



Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.3. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map

X Y Z

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

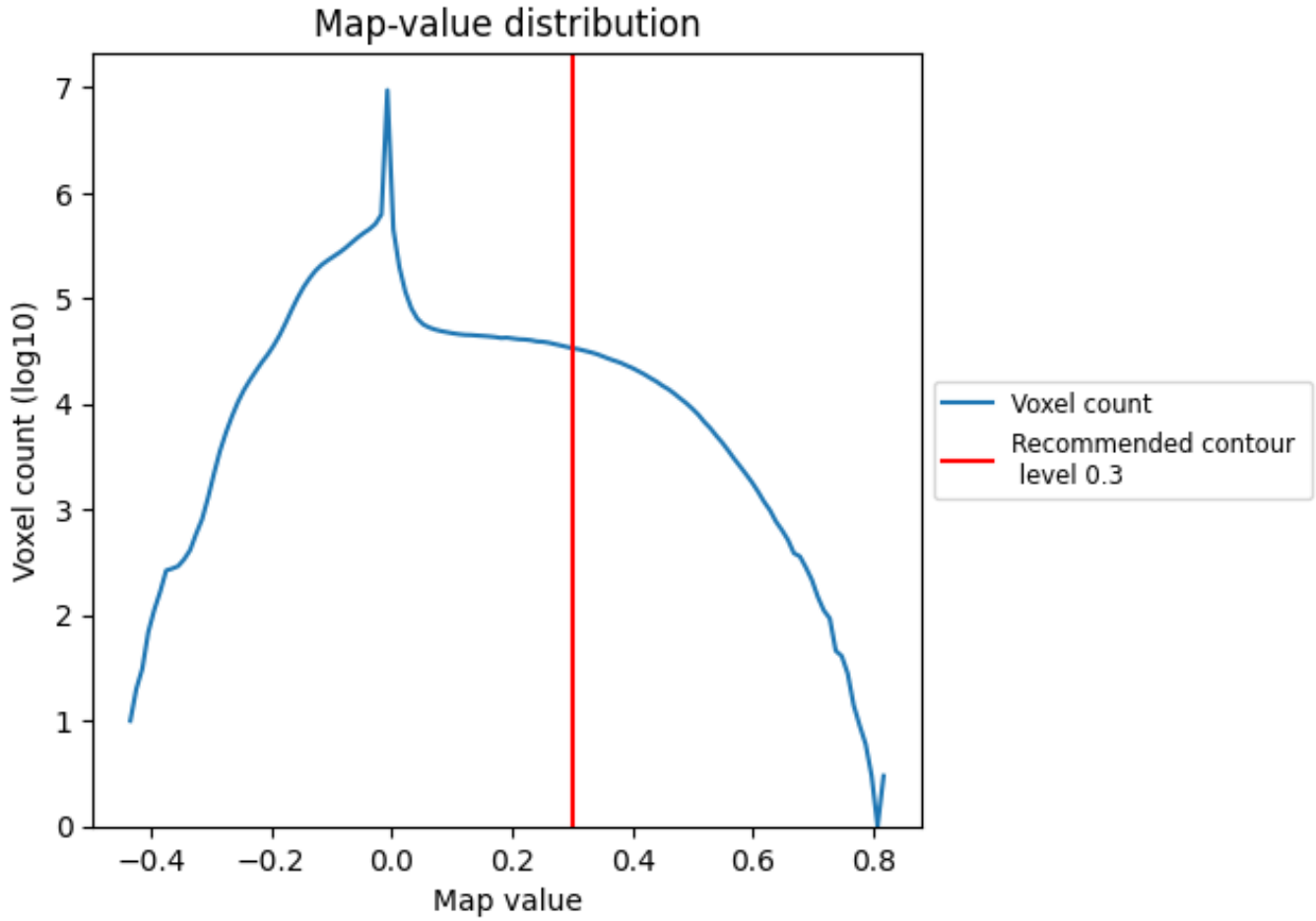
6.6 Mask visualisation (i)

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

7 Map analysis

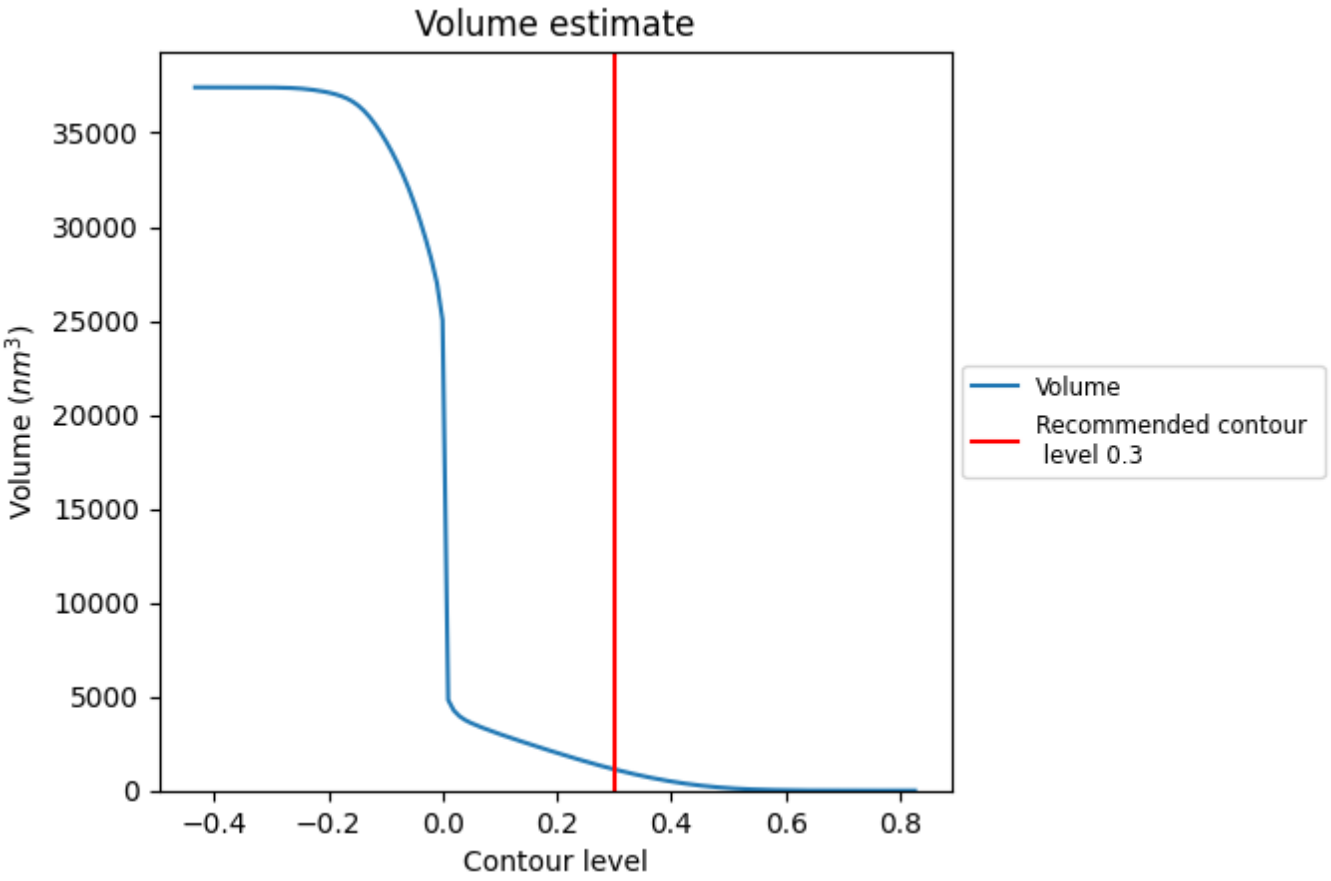
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

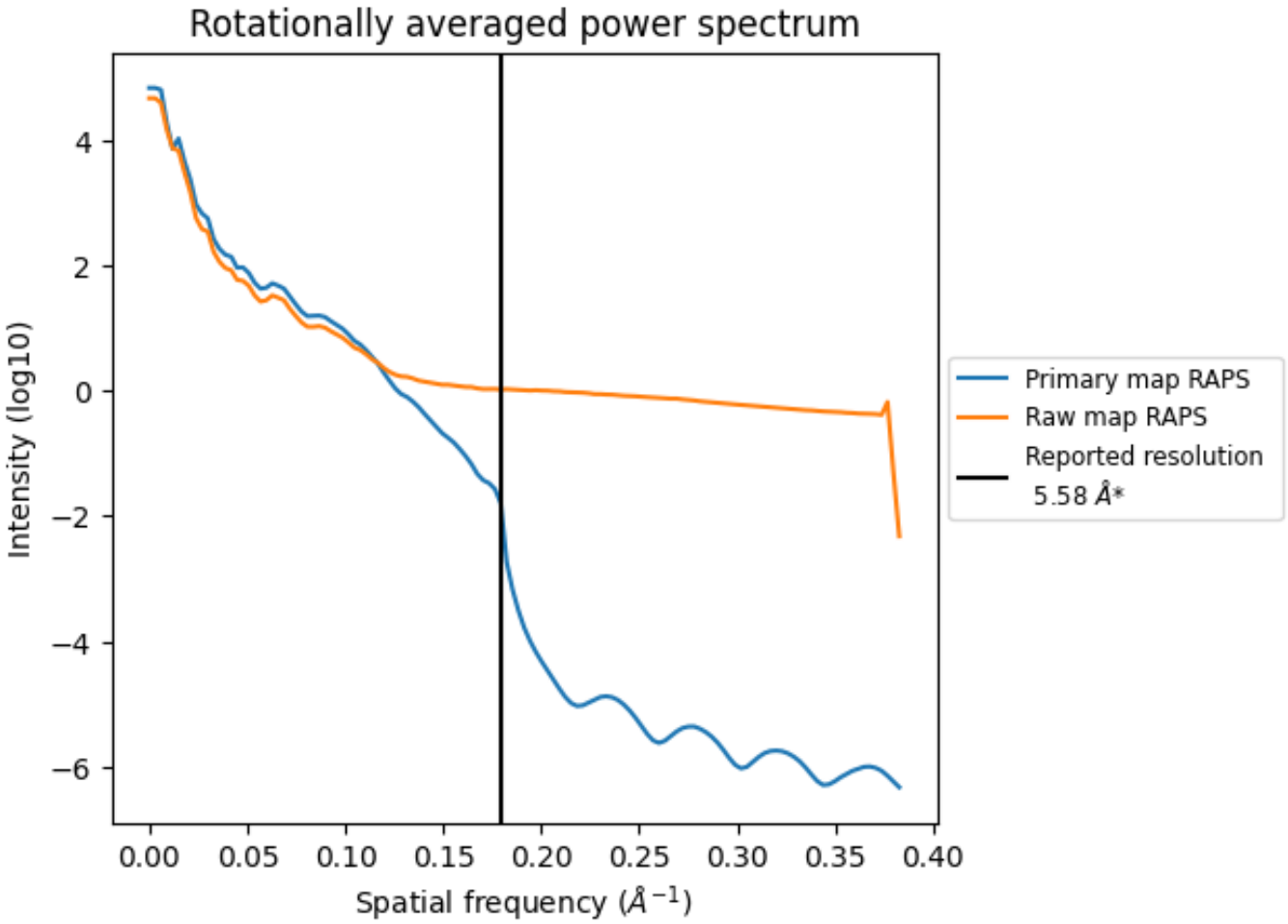
7.2 Volume estimate



The volume at the recommended contour level is 1132 nm^3; this corresponds to an approximate mass of 1022 kDa.

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

7.3 Rotationally averaged power spectrum (i)

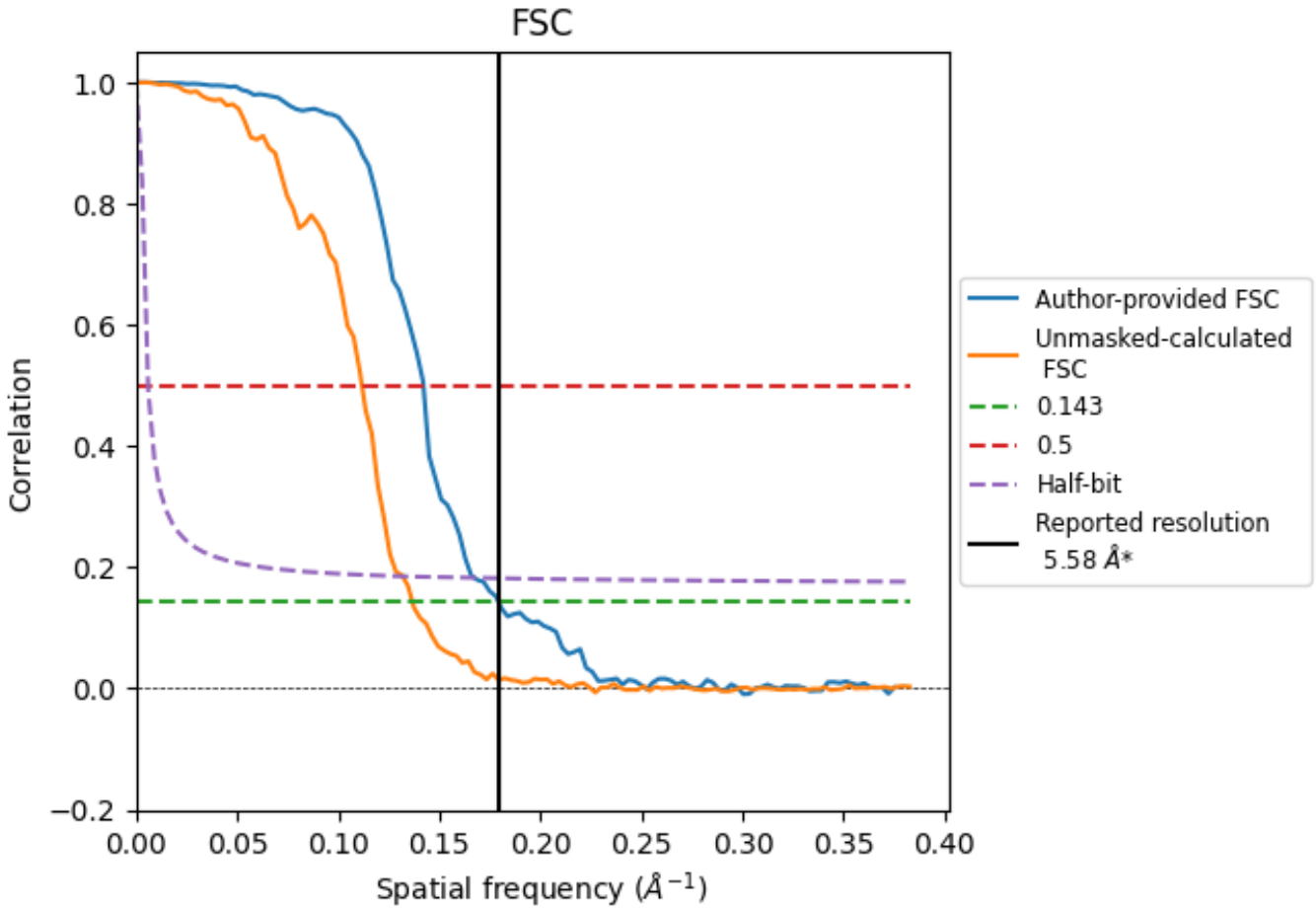


*Reported resolution corresponds to spatial frequency of 0.179 Å^{-1}

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.179 Å^{-1}

8.2 Resolution estimates (i)

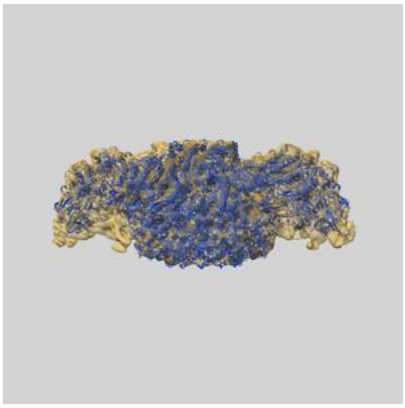
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	5.58	-	-
Author-provided FSC curve	5.58	7.03	5.97
Unmasked-calculated*	7.32	8.95	7.58

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 7.32 differs from the reported value 5.58 by more than 10 %

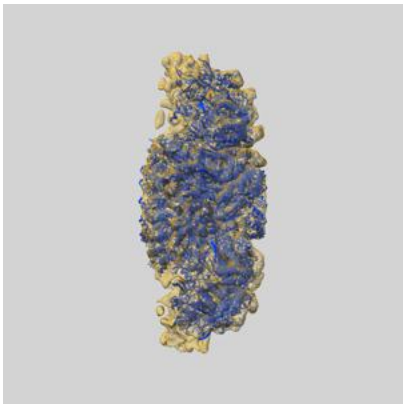
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-38541 and PDB model 8XOU. Per-residue inclusion information can be found in section 3 on page 8.

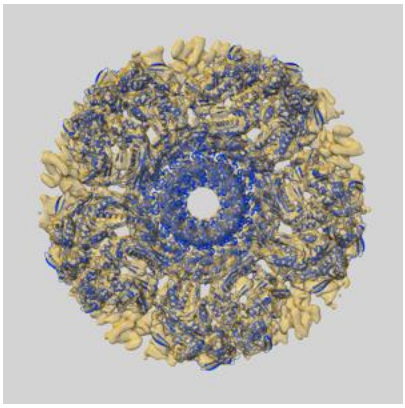
9.1 Map-model overlay



X



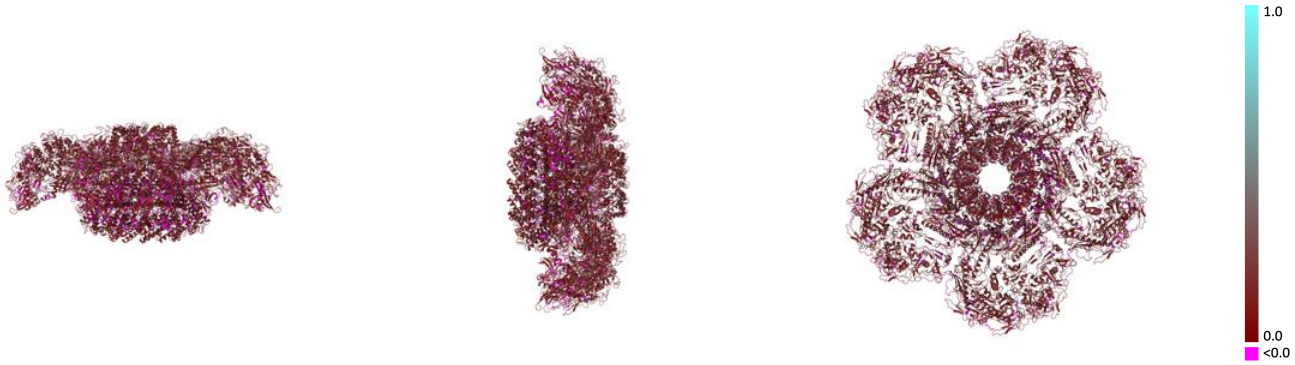
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.3 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

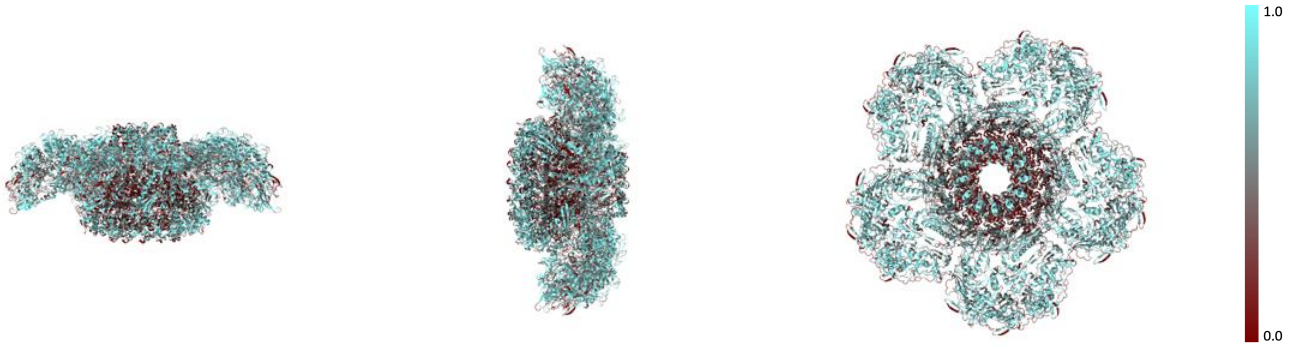
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

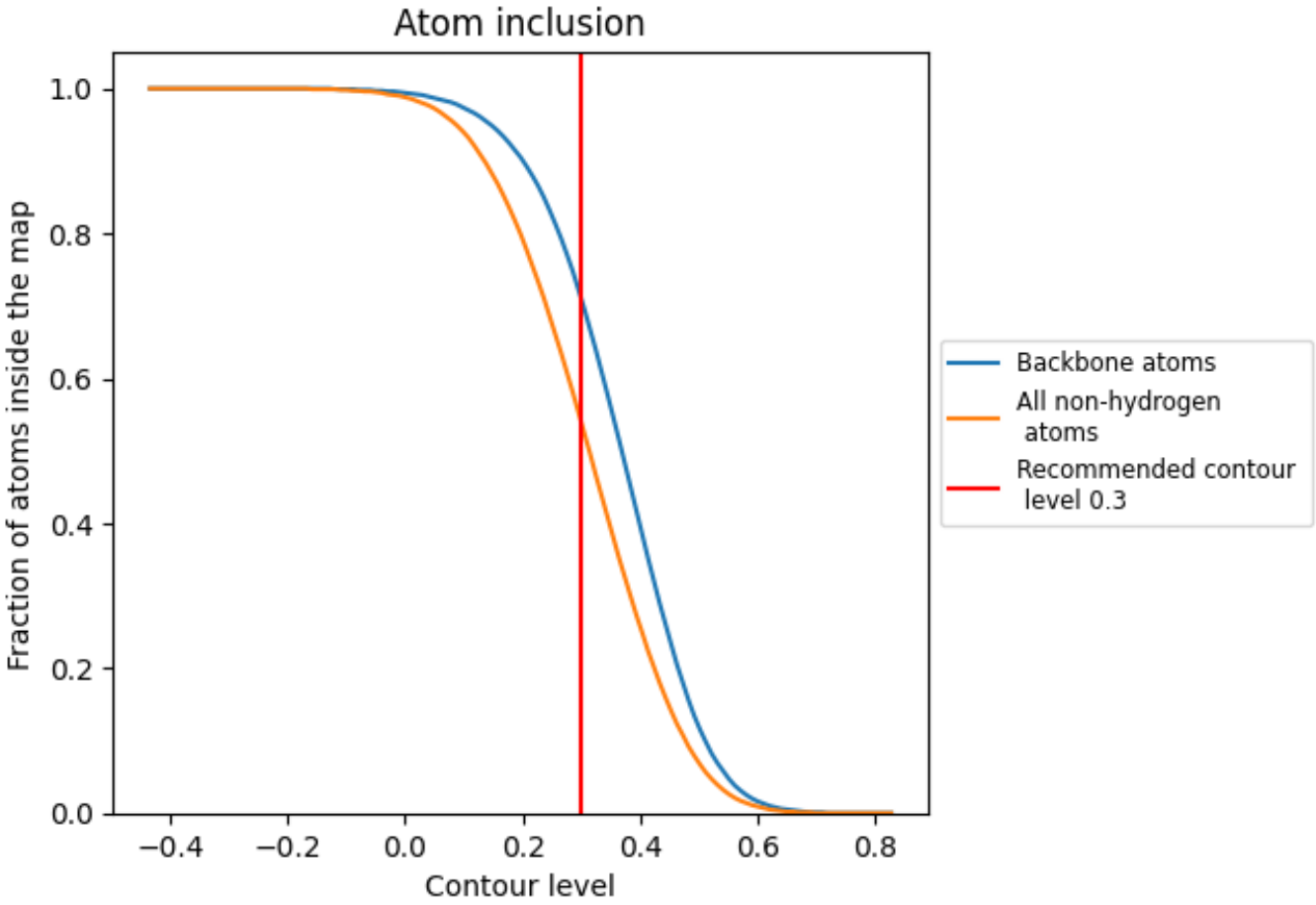
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.3).

9.4 Atom inclusion (i)



At the recommended contour level, 71% of all backbone atoms, 54% 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 (0.3) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5380	0.1520
A0	0.6420	0.1570
A1	0.6540	0.1590
A2	0.6370	0.1580
A3	0.6200	0.1610
A4	0.6210	0.1620
B	0.4050	0.1410
B1	0.3830	0.1190
B2	0.3820	0.1130
B3	0.4190	0.1380
B4	0.4550	0.1500
B5	0.4560	0.1590
C0	0.6160	0.1700
C1	0.6260	0.1640
C2	0.6150	0.1630
C3	0.5800	0.1630
C4	0.5930	0.1660
D0	0.5910	0.1480
D1	0.5910	0.1450
D2	0.5940	0.1460
D3	0.5910	0.1440
D4	0.6070	0.1510
E0	0.5600	0.1600
E1	0.5920	0.1530
E2	0.5770	0.1540
E3	0.5850	0.1570
E4	0.5730	0.1640
F0	0.6140	0.1580
F1	0.6250	0.1580
F2	0.5970	0.1560
F3	0.6040	0.1600
F4	0.5750	0.1590
G0	0.6360	0.1810
G1	0.6440	0.1840
G2	0.6160	0.1880

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Chain	Atom inclusion	Q-score
G3	0.5990	0.1830
G4	0.5990	0.1830
b	0.3950	0.1240
b1	0.3760	0.1100
b2	0.3900	0.1200
b3	0.4310	0.1450
b4	0.4610	0.1590
b5	0.4360	0.1490