WORLDWIDE wwPDB PROTEIN DATA BANK

Full wwPDB EM Validation Report (i)

Mar 20, 2024 – 02:16 PM JST

PDB ID	:	7DAG
EMDB ID	:	EMD-30625
Title	:	Vibrio cholera aldehyde-alcohol dehrogenase
Authors	:	Cho, S.; Cho, C.; Song, J.; Kim, G.
Deposited on	:	2020-10-16
Resolution	:	4.37 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 (i) 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 (i)) were used in the production of this report:

EMDB validation analysis	:	0.0.1.dev70
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

1　Overall quality at a glance　ⓘ

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

The reported resolution of this entry is 4.37 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	Percentile Ranks	Value
Clashscore		38
Ramachandran outliers		0.1%
Sidechain outliers		14.5%

Worse　　　　　　　　　　　　　　　　　*Better*

▌ Percentile relative to all structures
▯ Percentile relative to all EM structures
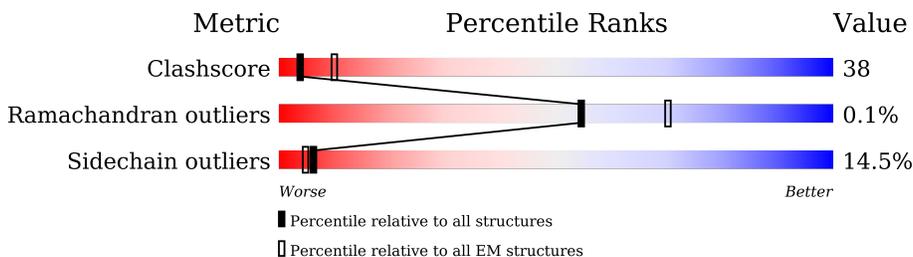
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	A	894	71% / 36% 50% 10% · ·
1	B	894	55% / 36% 50% 10% · ·
1	C	894	13% / 36% 49% 10% · ·
1	D	894	12% / 36% 49% 10% · ·
1	E	894	31% / 36% 50% 10% · ·
1	F	894	38% / 36% 49% 10% · ·
1	G	894	40% / 20% 26% 53%
1	H	894	48% / 28% 22% 50%

2 Entry composition ⓘ

There is only 1 type of molecule in this entry. The entry contains 45976 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 Aldehyde-alcohol dehydrogenase.

| Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	867	Total	C	N	O	S	0	0
			6568	4174	1119	1246	29		
1	B	867	Total	C	N	O	S	0	0
			6568	4174	1119	1246	29		
1	C	867	Total	C	N	O	S	0	0
			6568	4174	1119	1246	29		
1	D	867	Total	C	N	O	S	0	0
			6568	4174	1119	1246	29		
1	E	867	Total	C	N	O	S	0	0
			6568	4174	1119	1246	29		
1	F	867	Total	C	N	O	S	0	0
			6568	4174	1119	1246	29		
1	G	419	Total	C	N	O	S	0	0
			3250	2078	547	608	17		
1	H	448	Total	C	N	O	S	0	0
			3318	2096	572	638	12		

3 Residue-property plots ⓘ

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

• Molecule 1: Aldehyde-alcohol dehydrogenase

Chain A:

• Molecule 1: Aldehyde-alcohol dehydrogenase

Chain B:

• Molecule 1: Aldehyde-alcohol dehydrogenase

Chain C:

• Molecule 1: Aldehyde-alcohol dehydrogenase

• Molecule 1: Aldehyde-alcohol dehydrogenase

Chain E:

• Molecule 1: Aldehyde-alcohol dehydrogenase

Chain F:

• Molecule 1: Aldehyde-alcohol dehydrogenase

• Molecule 1: Aldehyde-alcohol dehydrogenase

Chain H:

48%

28%   22%   50%

I121 F122 K123 S124 L125 I126 S127 L128 K129 T130 R131 N132 G133 I134 I135 F136 S137 P138 H139 P140 R141 A142 K143 N144 S145 T146 N147 A148 A149 A150 K151 L152 V153 L154 D155 A156 A157 I158 A159 A160 G161 A162 P163 K164 D165 I166 I167 G168 W169 I170 D171 Q172 P173 S174 V175 E176 L177 S178 N179 A180

L181 M182 K183 H184 D185 G186 I187 A188 L189 I190 L191 A192 T193 G194 G195 P196 G197 M198 V199 K200 A201 A202 Y203 S204 S205 G206 K207 P208 A209 I210 G211 V212 G213 A214 G215 N216 V217 P218 V219 V220 I221 D222 E223 T224 A225 D226 I227 K228 R229 A230 V231 A232 S233 I234 L235 M236 S237 K238 T239 F240

D241 N242 G243 V244 V245 C246 A247 S248 E249 Q250 A251 A252 I253 V254 V255 S256 E257 V258 Y259 D260 E261 V262 K263 E264 R265 F266 A267 T268 H269 K270 A271 H272 V273 L274 S275 K276 A277 D278 A279 D280 K281 V282 R283 K284 V285 L286 L287 I288 D289 G290 N293 A294 K295 I296 V297 Q298 Q299 P300 A301

A302 A303 I304 A305 E306 M307 A308 G309 V310 K311 V312 P313 A314 D315 T316 K317 V318 L319 V320 G321 E322 G323 L324 G325 K326 V327 S328 Y329 D330 D331 E332 F333 A334 H335 E336 K337 L338 S339 P340 T341 L342 G343 L344 F345 R346 A347 D348 N349 F350 E351 D352 A353 V354 A355 Q356 A357 V358 T359 M360 V361

E362 I363 G364 G367 H368 T369 S370 G371 L372 Y373 T374 N375 Q376 D377 V378 N379 A380 D381 R382 I383 R384 Y385 F386 G387 D388 K389 L390 K391 T392 A393 R394 I395 L396 V397 N398 I399 P400 T401 T402 H403 G404 G405 I406 G407 D408 L409 Y410 N411 F412 N413 V414 A415 P416 S417 L418 T419 L420 G421 C422

G423 S424 W425 G426 G427 N428 S429 I430 S431 E432 N433 V434 G435 P436 K437 H438 L439 I440 N441 K442 K443 T444 V445 A446 K447 R448 A449 GLU ASN MET LEU TRP HIS LYS LEU PRO LYS SER ILE TYR PHE ARG ARG GLY SER LEU PRO ILE ALA LEU SER ASP LEU GLU GLY LYS LYS ARG ALA PHE

4　Experimental information　ⓘ

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	62417	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose $(e^-/\text{Å}^2)$	40	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	0.932	Depositor
Minimum map value	-0.331	Depositor
Average map value	0.007	Depositor
Map value standard deviation	0.066	Depositor
Recommended contour level	0.31	Depositor
Map size (Å)	293.41998, 293.41998, 293.41998	wwPDB
Map dimensions	340, 340, 340	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.863, 0.863, 0.863	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	A	0.42	2/6693 (0.0%)	0.79	21/9077 (0.2%)
1	B	0.42	2/6693 (0.0%)	0.79	21/9077 (0.2%)
1	C	0.42	2/6693 (0.0%)	0.79	21/9077 (0.2%)
1	D	0.42	2/6693 (0.0%)	0.79	21/9077 (0.2%)
1	E	0.42	2/6693 (0.0%)	0.79	21/9077 (0.2%)
1	F	0.42	2/6693 (0.0%)	0.79	21/9077 (0.2%)
1	G	0.37	2/3322 (0.1%)	0.65	7/4505 (0.2%)
1	H	0.30	0/3370	0.54	2/4569 (0.0%)
All	All	0.41	14/46850 (0.0%)	0.76	135/63536 (0.2%)

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	A	0	6
1	B	0	6
1	C	0	6
1	D	0	6
1	E	0	6
1	F	0	6
1	G	0	1
All	All	0	37

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	590	GLU	CG-CD	-6.96	1.41	1.51
1	F	425	TRP	CB-CG	6.14	1.61	1.50
1	D	425	TRP	CB-CG	6.13	1.61	1.50
1	E	425	TRP	CB-CG	6.12	1.61	1.50
1	B	425	TRP	CB-CG	6.11	1.61	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	425	TRP	CB-CG	6.10	1.61	1.50
1	A	425	TRP	CB-CG	6.08	1.61	1.50
1	B	90	GLU	CG-CD	-6.05	1.42	1.51
1	E	90	GLU	CG-CD	-6.04	1.42	1.51
1	F	90	GLU	CG-CD	-6.03	1.43	1.51
1	C	90	GLU	CG-CD	-5.98	1.43	1.51
1	D	90	GLU	CG-CD	-5.97	1.43	1.51
1	A	90	GLU	CG-CD	-5.97	1.43	1.51
1	G	590	GLU	CB-CG	-5.42	1.41	1.52

All (135) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	464	ARG	NE-CZ-NH1	-13.38	113.61	120.30
1	C	464	ARG	CB-CG-CD	12.30	143.58	111.60
1	D	464	ARG	CB-CG-CD	12.28	143.54	111.60
1	E	464	ARG	CB-CG-CD	12.28	143.52	111.60
1	F	464	ARG	CB-CG-CD	12.27	143.51	111.60
1	A	464	ARG	CB-CG-CD	12.27	143.50	111.60
1	B	464	ARG	CB-CG-CD	12.26	143.48	111.60
1	D	235	LEU	CA-CB-CG	11.01	140.62	115.30
1	C	235	LEU	CA-CB-CG	11.00	140.60	115.30
1	E	235	LEU	CA-CB-CG	10.99	140.59	115.30
1	A	235	LEU	CA-CB-CG	10.99	140.57	115.30
1	B	235	LEU	CA-CB-CG	10.98	140.55	115.30
1	F	235	LEU	CA-CB-CG	10.97	140.54	115.30
1	A	464	ARG	CG-CD-NE	9.74	132.26	111.80
1	B	464	ARG	CG-CD-NE	9.74	132.26	111.80
1	E	464	ARG	CG-CD-NE	9.73	132.24	111.80
1	F	464	ARG	CG-CD-NE	9.73	132.23	111.80
1	D	464	ARG	CG-CD-NE	9.71	132.19	111.80
1	C	464	ARG	CG-CD-NE	9.71	132.19	111.80
1	D	637	LEU	CB-CG-CD1	8.20	124.94	111.00
1	A	637	LEU	CB-CG-CD1	8.17	124.89	111.00
1	F	637	LEU	CB-CG-CD1	8.17	124.89	111.00
1	B	637	LEU	CB-CG-CD1	8.17	124.88	111.00
1	E	637	LEU	CB-CG-CD1	8.17	124.89	111.00
1	C	637	LEU	CB-CG-CD1	8.16	124.88	111.00
1	A	338	LEU	CA-CB-CG	7.51	132.58	115.30
1	B	338	LEU	CA-CB-CG	7.51	132.56	115.30
1	E	338	LEU	CA-CB-CG	7.50	132.55	115.30
1	F	338	LEU	CA-CB-CG	7.49	132.53	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	338	LEU	CA-CB-CG	7.49	132.52	115.30
1	C	338	LEU	CA-CB-CG	7.48	132.50	115.30
1	D	566	GLU	CA-CB-CG	7.22	129.29	113.40
1	A	566	GLU	CA-CB-CG	7.21	129.26	113.40
1	E	566	GLU	CA-CB-CG	7.21	129.26	113.40
1	F	566	GLU	CA-CB-CG	7.20	129.24	113.40
1	B	566	GLU	CA-CB-CG	7.19	129.22	113.40
1	C	566	GLU	CA-CB-CG	7.19	129.22	113.40
1	C	639	MET	CA-CB-CG	6.92	125.07	113.30
1	D	639	MET	CA-CB-CG	6.92	125.06	113.30
1	E	639	MET	CA-CB-CG	6.92	125.06	113.30
1	F	639	MET	CA-CB-CG	6.91	125.05	113.30
1	B	639	MET	CA-CB-CG	6.89	125.02	113.30
1	A	639	MET	CA-CB-CG	6.89	125.01	113.30
1	H	406	ILE	CG1-CB-CG2	-6.72	96.61	111.40
1	G	578	ARG	NE-CZ-NH1	-6.44	117.08	120.30
1	C	463	PHE	C-N-CA	6.33	137.52	121.70
1	A	463	PHE	C-N-CA	6.32	137.50	121.70
1	F	463	PHE	C-N-CA	6.31	137.48	121.70
1	E	463	PHE	C-N-CA	6.30	137.45	121.70
1	D	463	PHE	C-N-CA	6.29	137.43	121.70
1	B	463	PHE	C-N-CA	6.28	137.40	121.70
1	B	590	GLU	CA-CB-CG	6.26	127.18	113.40
1	F	590	GLU	CA-CB-CG	6.26	127.18	113.40
1	E	590	GLU	CA-CB-CG	6.26	127.18	113.40
1	A	590	GLU	CA-CB-CG	6.26	127.16	113.40
1	C	590	GLU	CA-CB-CG	6.25	127.16	113.40
1	D	590	GLU	CA-CB-CG	6.25	127.14	113.40
1	A	448	ARG	CB-CG-CD	-5.89	96.28	111.60
1	F	448	ARG	CB-CG-CD	-5.89	96.28	111.60
1	E	448	ARG	CB-CG-CD	-5.89	96.30	111.60
1	B	448	ARG	CB-CG-CD	-5.88	96.31	111.60
1	C	448	ARG	CB-CG-CD	-5.87	96.33	111.60
1	D	448	ARG	CB-CG-CD	-5.87	96.34	111.60
1	D	448	ARG	CG-CD-NE	-5.71	99.81	111.80
1	F	448	ARG	CG-CD-NE	-5.71	99.81	111.80
1	F	637	LEU	CB-CG-CD2	-5.71	101.30	111.00
1	A	448	ARG	CG-CD-NE	-5.71	99.81	111.80
1	E	637	LEU	CB-CG-CD2	-5.70	101.31	111.00
1	E	448	ARG	CG-CD-NE	-5.70	99.83	111.80
1	D	637	LEU	CB-CG-CD2	-5.70	101.32	111.00
1	C	637	LEU	CB-CG-CD2	-5.69	101.32	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	448	ARG	CG-CD-NE	-5.69	99.85	111.80
1	A	637	LEU	CB-CG-CD2	-5.69	101.33	111.00
1	B	448	ARG	CG-CD-NE	-5.69	99.86	111.80
1	B	637	LEU	CB-CG-CD2	-5.67	101.35	111.00
1	H	12	LEU	CA-CB-CG	5.51	127.97	115.30
1	D	464	ARG	N-CA-CB	5.51	120.51	110.60
1	E	464	ARG	N-CA-CB	5.50	120.50	110.60
1	F	464	ARG	N-CA-CB	5.50	120.50	110.60
1	B	464	ARG	N-CA-CB	5.49	120.49	110.60
1	C	464	ARG	N-CA-CB	5.49	120.48	110.60
1	A	464	ARG	N-CA-CB	5.49	120.47	110.60
1	D	128	LEU	CB-CG-CD2	-5.44	101.75	111.00
1	B	128	LEU	CB-CG-CD2	-5.43	101.77	111.00
1	F	128	LEU	CB-CG-CD2	-5.43	101.77	111.00
1	A	128	LEU	CB-CG-CD2	-5.42	101.78	111.00
1	E	128	LEU	CB-CG-CD2	-5.41	101.80	111.00
1	C	128	LEU	CB-CG-CD2	-5.41	101.81	111.00
1	A	570	MET	CB-CG-SD	5.37	128.52	112.40
1	G	464	ARG	CB-CG-CD	-5.37	97.64	111.60
1	D	570	MET	CB-CG-SD	5.36	128.47	112.40
1	F	570	MET	CB-CG-SD	5.36	128.47	112.40
1	B	570	MET	CB-CG-SD	5.36	128.47	112.40
1	C	570	MET	CB-CG-SD	5.36	128.47	112.40
1	E	570	MET	CB-CG-SD	5.35	128.46	112.40
1	D	849	LEU	CA-CB-CG	5.31	127.52	115.30
1	A	849	LEU	CA-CB-CG	5.31	127.52	115.30
1	F	849	LEU	CA-CB-CG	5.29	127.47	115.30
1	E	849	LEU	CA-CB-CG	5.29	127.46	115.30
1	C	849	LEU	CA-CB-CG	5.28	127.44	115.30
1	B	849	LEU	CA-CB-CG	5.28	127.43	115.30
1	F	181	LEU	CA-CB-CG	5.27	127.42	115.30
1	D	389	LYS	CD-CE-NZ	-5.27	99.59	111.70
1	A	389	LYS	CD-CE-NZ	-5.26	99.59	111.70
1	B	181	LEU	CA-CB-CG	5.26	127.41	115.30
1	E	389	LYS	CD-CE-NZ	-5.26	99.59	111.70
1	F	389	LYS	CD-CE-NZ	-5.26	99.59	111.70
1	E	181	LEU	CA-CB-CG	5.26	127.41	115.30
1	C	389	LYS	CD-CE-NZ	-5.26	99.60	111.70
1	A	181	LEU	CA-CB-CG	5.26	127.39	115.30
1	C	181	LEU	CA-CB-CG	5.25	127.38	115.30
1	B	389	LYS	CD-CE-NZ	-5.25	99.63	111.70
1	D	181	LEU	CA-CB-CG	5.24	127.36	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	448	ARG	N-CA-CB	-5.22	101.21	110.60
1	B	448	ARG	N-CA-CB	-5.21	101.22	110.60
1	D	448	ARG	N-CA-CB	-5.21	101.22	110.60
1	E	448	ARG	N-CA-CB	-5.21	101.23	110.60
1	A	448	ARG	N-CA-CB	-5.20	101.25	110.60
1	C	448	ARG	N-CA-CB	-5.20	101.25	110.60
1	F	516	GLU	CA-CB-CG	5.18	124.80	113.40
1	C	516	GLU	CA-CB-CG	5.18	124.80	113.40
1	D	516	GLU	CA-CB-CG	5.17	124.78	113.40
1	A	516	GLU	CA-CB-CG	5.17	124.77	113.40
1	B	516	GLU	CA-CB-CG	5.17	124.76	113.40
1	E	516	GLU	CA-CB-CG	5.17	124.77	113.40
1	G	464	ARG	CB-CA-C	-5.11	100.18	110.40
1	A	476	GLU	CA-CB-CG	5.11	124.63	113.40
1	C	476	GLU	CA-CB-CG	5.11	124.63	113.40
1	E	476	GLU	CA-CB-CG	5.10	124.62	113.40
1	B	476	GLU	CA-CB-CG	5.09	124.60	113.40
1	F	476	GLU	CA-CB-CG	5.09	124.60	113.40
1	D	476	GLU	CA-CB-CG	5.09	124.59	113.40
1	G	590	GLU	OE1-CD-OE2	5.08	129.40	123.30
1	G	798	LEU	CA-CB-CG	5.05	126.92	115.30
1	G	841	THR	N-CA-C	5.04	124.59	111.00

There are no chirality outliers.

All (37) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	295	LYS	Peptide
1	A	425	TRP	Peptide
1	A	447	LYS	Peptide
1	A	582	PHE	Peptide
1	A	59	MET	Peptide
1	A	90	GLU	Sidechain
1	B	295	LYS	Peptide
1	B	425	TRP	Peptide
1	B	447	LYS	Peptide
1	B	582	PHE	Peptide
1	B	59	MET	Peptide
1	B	90	GLU	Sidechain
1	C	295	LYS	Peptide
1	C	425	TRP	Peptide
1	C	447	LYS	Peptide

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Mol	Chain	Res	Type	Group
1	C	582	PHE	Peptide
1	C	59	MET	Peptide
1	C	90	GLU	Sidechain
1	D	295	LYS	Peptide
1	D	425	TRP	Peptide
1	D	447	LYS	Peptide
1	D	582	PHE	Peptide
1	D	59	MET	Peptide
1	D	90	GLU	Sidechain
1	E	295	LYS	Peptide
1	E	425	TRP	Peptide
1	E	447	LYS	Peptide
1	E	582	PHE	Peptide
1	E	59	MET	Peptide
1	E	90	GLU	Sidechain
1	F	295	LYS	Peptide
1	F	425	TRP	Peptide
1	F	447	LYS	Peptide
1	F	582	PHE	Peptide
1	F	59	MET	Peptide
1	F	90	GLU	Sidechain
1	G	464	ARG	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6568	0	6618	540	0
1	B	6568	0	6618	555	0
1	C	6568	0	6618	525	0
1	D	6568	0	6618	519	0
1	E	6568	0	6618	529	0
1	F	6568	0	6618	523	0
1	G	3250	0	3233	249	0
1	H	3318	0	3384	179	0
All	All	45976	0	46325	3511	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 (3511) 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:F:452:MET:HA	1:G:464:ARG:HH12	1.11	1.12
1:D:567:GLU:O	1:D:571:ARG:HB3	1.64	0.98
1:E:75:PHE:O	1:E:79:LYS:HB2	1.63	0.98
1:B:567:GLU:O	1:B:571:ARG:HB3	1.64	0.98
1:C:567:GLU:O	1:C:571:ARG:HB3	1.64	0.98
1:D:75:PHE:O	1:D:79:LYS:HB2	1.63	0.98
1:C:75:PHE:O	1:C:79:LYS:HB2	1.63	0.98
1:F:567:GLU:O	1:F:571:ARG:HB3	1.64	0.97
1:F:13:VAL:O	1:F:17:LYS:HB3	1.64	0.97
1:A:13:VAL:O	1:A:17:LYS:HB3	1.64	0.97
1:E:567:GLU:O	1:E:571:ARG:HB3	1.64	0.97
1:A:567:GLU:O	1:A:571:ARG:HB3	1.64	0.97
1:F:75:PHE:O	1:F:79:LYS:HB2	1.63	0.97
1:A:75:PHE:O	1:A:79:LYS:HB2	1.63	0.97
1:D:13:VAL:O	1:D:17:LYS:HB3	1.64	0.97
1:B:75:PHE:O	1:B:79:LYS:HB2	1.64	0.97
1:C:13:VAL:O	1:C:17:LYS:HB3	1.64	0.97
1:E:13:VAL:O	1:E:17:LYS:HB3	1.64	0.96
1:A:448:ARG:H	1:B:399:ILE:HD11	1.30	0.96
1:D:470:ILE:HD11	1:E:452:MET:HE2	1.46	0.96
1:B:13:VAL:O	1:B:17:LYS:HB3	1.64	0.95
1:F:44:GLN:N	1:F:44:GLN:OE1	1.99	0.95
1:F:452:MET:HA	1:G:464:ARG:NH1	1.80	0.95
1:D:44:GLN:OE1	1:D:44:GLN:N	1.99	0.95
1:B:560:HIS:HE1	1:B:584:LYS:H	0.94	0.94
1:B:44:GLN:OE1	1:B:44:GLN:N	1.99	0.94
1:E:560:HIS:CE1	1:E:584:LYS:H	1.85	0.94
1:C:44:GLN:OE1	1:C:44:GLN:N	1.99	0.94
1:G:833:VAL:HB	1:H:47:ILE:HG21	1.48	0.94
1:A:44:GLN:N	1:A:44:GLN:OE1	1.99	0.94
1:A:560:HIS:CE1	1:A:584:LYS:H	1.85	0.94
1:C:560:HIS:CE1	1:C:584:LYS:H	1.85	0.94
1:E:44:GLN:OE1	1:E:44:GLN:N	1.99	0.94
1:E:560:HIS:HE1	1:E:584:LYS:H	0.94	0.93
1:A:448:ARG:N	1:B:399:ILE:HD11	1.82	0.93
1:B:560:HIS:CE1	1:B:584:LYS:H	1.85	0.93
1:B:278:ASP:HA	1:B:281:LYS:HB2	1.49	0.93
1:A:278:ASP:HA	1:A:281:LYS:HB2	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:278:ASP:HA	1:D:281:LYS:HB2	1.49	0.92
1:E:278:ASP:HA	1:E:281:LYS:HB2	1.49	0.92
1:C:14:ALA:HA	1:C:17:LYS:HG2	1.52	0.92
1:E:14:ALA:HA	1:E:17:LYS:HG2	1.52	0.92
1:A:560:HIS:HE1	1:A:584:LYS:H	0.94	0.92
1:F:278:ASP:HA	1:F:281:LYS:HB2	1.49	0.92
1:F:14:ALA:HA	1:F:17:LYS:HG2	1.52	0.92
1:C:278:ASP:HA	1:C:281:LYS:HB2	1.49	0.91
1:F:574:ASP:OD1	1:F:577:LYS:NZ	2.04	0.91
1:E:406:ILE:HG23	1:F:762:PHE:HD2	1.30	0.91
1:A:574:ASP:OD1	1:A:577:LYS:NZ	2.04	0.91
1:B:574:ASP:OD1	1:B:577:LYS:NZ	2.04	0.91
1:D:14:ALA:HA	1:D:17:LYS:HG2	1.52	0.91
1:D:574:ASP:OD1	1:D:577:LYS:NZ	2.04	0.91
1:C:560:HIS:HE1	1:C:584:LYS:H	0.94	0.90
1:C:574:ASP:OD1	1:C:577:LYS:NZ	2.04	0.90
1:E:574:ASP:OD1	1:E:577:LYS:NZ	2.04	0.90
1:A:232:ALA:HA	1:A:235:LEU:HD12	1.53	0.90
1:E:232:ALA:HA	1:E:235:LEU:HD12	1.53	0.90
1:A:571:ARG:NH1	1:B:81:LYS:HZ1	1.68	0.89
1:C:232:ALA:HA	1:C:235:LEU:HD12	1.53	0.89
1:A:14:ALA:HA	1:A:17:LYS:HG2	1.52	0.89
1:B:232:ALA:HA	1:B:235:LEU:HD12	1.53	0.89
1:D:470:ILE:HD11	1:E:452:MET:CE	2.02	0.89
1:B:14:ALA:HA	1:B:17:LYS:HG2	1.52	0.89
1:F:232:ALA:HA	1:F:235:LEU:HD12	1.53	0.89
1:D:232:ALA:HA	1:D:235:LEU:HD12	1.53	0.88
1:C:97:THR:HA	1:C:445:VAL:O	1.74	0.88
1:F:97:THR:HA	1:F:445:VAL:O	1.74	0.88
1:F:503:LYS:NZ	1:F:507:MET:O	2.07	0.88
1:A:503:LYS:NZ	1:A:507:MET:O	2.07	0.87
1:A:97:THR:HA	1:A:445:VAL:O	1.74	0.87
1:E:97:THR:HA	1:E:445:VAL:O	1.74	0.87
1:B:97:THR:HA	1:B:445:VAL:O	1.74	0.86
1:C:409:LEU:HB3	1:C:412:PHE:HA	1.57	0.86
1:C:566:GLU:OE1	1:C:566:GLU:N	2.09	0.86
1:D:503:LYS:NZ	1:D:507:MET:O	2.07	0.86
1:D:566:GLU:OE1	1:D:566:GLU:N	2.09	0.86
1:D:97:THR:HA	1:D:445:VAL:O	1.74	0.86
1:F:566:GLU:OE1	1:F:566:GLU:N	2.09	0.86
1:B:503:LYS:NZ	1:B:507:MET:O	2.07	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:503:LYS:NZ	1:C:507:MET:O	2.07	0.86
1:E:409:LEU:HB3	1:E:412:PHE:HA	1.57	0.86
1:F:409:LEU:HB3	1:F:412:PHE:HA	1.57	0.86
1:H:59:MET:HE1	1:H:141:ARG:HH22	1.40	0.86
1:F:564:HIS:HD1	1:F:566:GLU:CD	1.80	0.85
1:E:503:LYS:NZ	1:E:507:MET:O	2.07	0.85
1:A:564:HIS:HD1	1:A:566:GLU:CD	1.80	0.85
1:D:564:HIS:HD1	1:D:566:GLU:CD	1.80	0.85
1:A:566:GLU:OE1	1:A:566:GLU:N	2.09	0.85
1:B:566:GLU:OE1	1:B:566:GLU:N	2.09	0.85
1:G:629:GLN:HG3	1:G:630:MET:N	1.91	0.85
1:D:409:LEU:HB3	1:D:412:PHE:HA	1.57	0.84
1:B:564:HIS:HD1	1:B:566:GLU:CD	1.80	0.84
1:E:564:HIS:HD1	1:E:566:GLU:CD	1.80	0.84
1:A:409:LEU:HB3	1:A:412:PHE:HA	1.57	0.84
1:B:409:LEU:HB3	1:B:412:PHE:HA	1.57	0.83
1:E:566:GLU:OE1	1:E:566:GLU:N	2.09	0.83
1:B:560:HIS:HE1	1:B:584:LYS:N	1.77	0.83
1:C:564:HIS:HD1	1:C:566:GLU:CD	1.80	0.83
1:B:505:GLN:OE1	1:B:505:GLN:N	2.12	0.82
1:H:88:ILE:HA	1:H:100:ILE:HG22	1.61	0.82
1:F:505:GLN:N	1:F:505:GLN:OE1	2.12	0.82
1:C:560:HIS:HE1	1:C:584:LYS:N	1.77	0.82
1:A:505:GLN:OE1	1:A:505:GLN:N	2.12	0.81
1:E:505:GLN:OE1	1:E:505:GLN:N	2.12	0.81
1:C:505:GLN:N	1:C:505:GLN:OE1	2.12	0.81
1:E:560:HIS:HE1	1:E:584:LYS:N	1.77	0.81
1:D:505:GLN:OE1	1:D:505:GLN:N	2.12	0.81
1:E:570:MET:HE1	1:F:74:GLU:HG2	1.61	0.80
1:A:560:HIS:HE1	1:A:584:LYS:N	1.77	0.80
1:F:452:MET:SD	1:G:464:ARG:NH1	2.54	0.80
1:A:88:ILE:HA	1:A:100:ILE:HG22	1.63	0.80
1:D:88:ILE:HA	1:D:100:ILE:HG22	1.63	0.80
1:G:740:ASN:HA	1:G:743:LEU:HD12	1.64	0.80
1:C:247:ALA:HB3	1:C:417:SER:HB2	1.65	0.79
1:F:574:ASP:H	1:F:577:LYS:HZ1	1.27	0.79
1:E:574:ASP:H	1:E:577:LYS:HZ1	1.31	0.79
1:F:88:ILE:HA	1:F:100:ILE:HG22	1.63	0.79
1:A:106:ILE:O	1:A:188:ALA:N	2.15	0.79
1:B:88:ILE:HA	1:B:100:ILE:HG22	1.63	0.79
1:E:106:ILE:O	1:E:188:ALA:N	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:691:ASN:HA	1:A:694:LYS:HE2	1.65	0.78
1:A:569:ALA:HA	1:A:621:LEU:HD11	1.65	0.78
1:E:140:PRO:O	1:E:143:LYS:NZ	2.17	0.78
1:F:140:PRO:O	1:F:143:LYS:NZ	2.17	0.78
1:B:140:PRO:O	1:B:143:LYS:NZ	2.17	0.78
1:H:229:ARG:NH1	1:H:373:TYR:HD2	1.81	0.78
1:E:406:ILE:HG23	1:F:762:PHE:CD2	2.19	0.78
1:A:247:ALA:HB3	1:A:417:SER:HB2	1.65	0.78
1:B:569:ALA:HA	1:B:621:LEU:HD11	1.65	0.78
1:D:106:ILE:O	1:D:188:ALA:N	2.15	0.78
1:D:247:ALA:HB3	1:D:417:SER:HB2	1.65	0.78
1:E:247:ALA:HB3	1:E:417:SER:HB2	1.65	0.78
1:E:569:ALA:HA	1:E:621:LEU:HD11	1.65	0.78
1:C:88:ILE:HA	1:C:100:ILE:HG22	1.63	0.78
1:C:106:ILE:O	1:C:188:ALA:N	2.15	0.78
1:D:140:PRO:O	1:D:143:LYS:NZ	2.17	0.78
1:D:691:ASN:HA	1:D:694:LYS:HE2	1.65	0.78
1:B:691:ASN:HA	1:B:694:LYS:HE2	1.65	0.77
1:F:452:MET:CA	1:G:464:ARG:HH12	1.94	0.77
1:C:140:PRO:O	1:C:143:LYS:NZ	2.17	0.77
1:E:88:ILE:HA	1:E:100:ILE:HG22	1.63	0.77
1:A:140:PRO:O	1:A:143:LYS:NZ	2.17	0.77
1:D:466:GLY:H	1:D:636:ASN:ND2	1.83	0.77
1:D:569:ALA:HA	1:D:621:LEU:HD11	1.65	0.77
1:E:691:ASN:HA	1:E:694:LYS:HE2	1.65	0.77
1:E:466:GLY:H	1:E:636:ASN:ND2	1.83	0.77
1:F:564:HIS:ND1	1:F:566:GLU:OE1	2.18	0.77
1:A:574:ASP:H	1:A:577:LYS:HZ1	1.29	0.77
1:B:564:HIS:ND1	1:B:566:GLU:OE1	2.18	0.77
1:F:569:ALA:HA	1:F:621:LEU:HD11	1.65	0.77
1:B:247:ALA:HB3	1:B:417:SER:HB2	1.65	0.77
1:C:691:ASN:HA	1:C:694:LYS:HE2	1.65	0.77
1:H:269:HIS:CD2	1:H:270:LYS:H	2.03	0.77
1:F:247:ALA:HB3	1:F:417:SER:HB2	1.65	0.77
1:F:691:ASN:HA	1:F:694:LYS:HE2	1.65	0.77
1:A:566:GLU:O	1:A:569:ALA:N	2.18	0.77
1:B:466:GLY:H	1:B:636:ASN:ND2	1.83	0.77
1:B:566:GLU:O	1:B:569:ALA:N	2.18	0.77
1:D:564:HIS:ND1	1:D:566:GLU:OE1	2.18	0.77
1:D:566:GLU:O	1:D:569:ALA:N	2.18	0.77
1:C:337:LYS:HE3	1:C:342:LEU:HA	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:566:GLU:O	1:F:569:ALA:N	2.18	0.76
1:B:106:ILE:O	1:B:188:ALA:N	2.15	0.76
1:F:106:ILE:O	1:F:188:ALA:N	2.15	0.76
1:E:566:GLU:O	1:E:569:ALA:N	2.18	0.76
1:C:569:ALA:HA	1:C:621:LEU:HD11	1.65	0.76
1:A:562:ASP:OD1	1:A:562:ASP:N	2.19	0.76
1:C:564:HIS:ND1	1:C:566:GLU:OE1	2.18	0.76
1:F:466:GLY:H	1:F:636:ASN:ND2	1.83	0.76
1:B:454:TRP:CH2	1:C:462:TYR:CE1	2.74	0.76
1:A:287:LEU:HD12	1:A:292:LEU:H	1.51	0.76
1:A:564:HIS:ND1	1:A:566:GLU:OE1	2.18	0.76
1:B:337:LYS:HE3	1:B:342:LEU:HA	1.67	0.76
1:F:287:LEU:HD12	1:F:292:LEU:H	1.51	0.76
1:C:466:GLY:H	1:C:636:ASN:ND2	1.83	0.75
1:C:566:GLU:O	1:C:569:ALA:N	2.18	0.75
1:A:466:GLY:H	1:A:636:ASN:ND2	1.83	0.75
1:C:287:LEU:HD12	1:C:292:LEU:H	1.51	0.75
1:D:562:ASP:OD1	1:D:562:ASP:N	2.19	0.75
1:G:461:ILE:HG22	1:G:631:ALA:HB3	1.68	0.75
1:E:564:HIS:ND1	1:E:566:GLU:OE1	2.18	0.75
1:A:297:VAL:O	1:A:299:GLN:NE2	2.20	0.75
1:C:567:GLU:O	1:C:571:ARG:CB	2.35	0.75
1:E:337:LYS:HE3	1:E:342:LEU:HA	1.67	0.75
1:A:337:LYS:HE3	1:A:342:LEU:HA	1.67	0.74
1:F:567:GLU:O	1:F:571:ARG:CB	2.35	0.74
1:E:592:VAL:HA	1:E:630:MET:HB3	1.70	0.74
1:D:337:LYS:HE3	1:D:342:LEU:HA	1.67	0.74
1:E:287:LEU:HD12	1:E:292:LEU:H	1.51	0.74
1:A:567:GLU:O	1:A:571:ARG:CB	2.35	0.74
1:D:6:LEU:HA	1:D:9:LEU:HB2	1.69	0.74
1:D:592:VAL:HA	1:D:630:MET:HB3	1.70	0.74
1:F:463:PHE:CE2	1:G:453:LEU:HG	2.22	0.74
1:H:229:ARG:NH1	1:H:398:ASN:OD1	2.20	0.74
1:A:6:LEU:HA	1:A:9:LEU:HB2	1.69	0.74
1:A:592:VAL:HA	1:A:630:MET:HB3	1.70	0.74
1:C:297:VAL:O	1:C:299:GLN:NE2	2.20	0.74
1:C:723:SER:HG	1:C:840:CYS:HG	1.18	0.74
1:E:297:VAL:O	1:E:299:GLN:NE2	2.20	0.74
1:E:723:SER:HG	1:E:840:CYS:HG	1.29	0.74
1:G:759:GLN:HE22	1:G:849:LEU:HB3	1.52	0.74
1:B:75:PHE:O	1:B:79:LYS:CB	2.36	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:297:VAL:O	1:B:299:GLN:NE2	2.20	0.74
1:C:75:PHE:O	1:C:79:LYS:CB	2.36	0.74
1:E:75:PHE:O	1:E:79:LYS:CB	2.36	0.74
1:F:337:LYS:HE3	1:F:342:LEU:HA	1.67	0.74
1:A:75:PHE:O	1:A:79:LYS:CB	2.36	0.74
1:C:234:ILE:O	1:C:238:LYS:HB2	1.88	0.74
1:D:297:VAL:O	1:D:299:GLN:NE2	2.20	0.74
1:D:567:GLU:O	1:D:571:ARG:CB	2.35	0.74
1:B:287:LEU:HD12	1:B:292:LEU:H	1.51	0.74
1:B:461:ILE:HG22	1:B:631:ALA:HB3	1.70	0.73
1:B:567:GLU:O	1:B:571:ARG:CB	2.35	0.73
1:F:297:VAL:O	1:F:299:GLN:NE2	2.20	0.73
1:E:461:ILE:HG22	1:E:631:ALA:HB3	1.70	0.73
1:E:567:GLU:O	1:E:571:ARG:CB	2.35	0.73
1:G:571:ARG:HD3	1:H:81:LYS:HD2	1.70	0.73
1:B:234:ILE:O	1:B:238:LYS:HB2	1.88	0.73
1:B:592:VAL:HA	1:B:630:MET:HB3	1.70	0.73
1:C:461:ILE:HG22	1:C:631:ALA:HB3	1.70	0.73
1:E:6:LEU:HA	1:E:9:LEU:HB2	1.69	0.73
1:B:6:LEU:HA	1:B:9:LEU:HB2	1.69	0.73
1:C:592:VAL:HA	1:C:630:MET:HB3	1.70	0.73
1:F:75:PHE:O	1:F:79:LYS:CB	2.36	0.73
1:F:234:ILE:O	1:F:238:LYS:HB2	1.88	0.73
1:F:461:ILE:HG22	1:F:631:ALA:HB3	1.70	0.73
1:F:723:SER:OG	1:F:840:CYS:SG	2.42	0.73
1:D:461:ILE:HG22	1:D:631:ALA:HB3	1.71	0.73
1:D:234:ILE:O	1:D:238:LYS:HB2	1.88	0.73
1:D:287:LEU:HD12	1:D:292:LEU:H	1.51	0.73
1:F:592:VAL:HA	1:F:630:MET:HB3	1.70	0.73
1:F:6:LEU:HA	1:F:9:LEU:HB2	1.69	0.73
1:A:234:ILE:O	1:A:238:LYS:HB2	1.88	0.73
1:A:576:ARG:NH1	1:B:407:GLY:HA3	2.04	0.73
1:G:750:TYR:O	1:G:846:ARG:NH2	2.22	0.73
1:C:574:ASP:H	1:C:577:LYS:HZ1	1.37	0.72
1:F:523:VAL:HA	1:F:526:LYS:HZ3	1.53	0.72
1:C:6:LEU:HA	1:C:9:LEU:HB2	1.69	0.72
1:C:530:ALA:O	1:C:533:SER:OG	2.07	0.72
1:E:234:ILE:O	1:E:238:LYS:HB2	1.88	0.72
1:A:461:ILE:HG22	1:A:631:ALA:HB3	1.70	0.72
1:G:560:HIS:NE2	1:G:584:LYS:O	2.21	0.72
1:D:75:PHE:O	1:D:79:LYS:CB	2.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:230:ALA:O	1:F:234:ILE:HG12	1.90	0.72
1:E:230:ALA:O	1:E:234:ILE:HG12	1.90	0.72
1:F:226:ASP:OD2	1:F:229:ARG:NH1	2.23	0.72
1:B:226:ASP:OD2	1:B:229:ARG:NH1	2.23	0.72
1:A:230:ALA:O	1:A:234:ILE:HG12	1.90	0.71
1:D:226:ASP:OD2	1:D:229:ARG:NH1	2.23	0.71
1:A:63:GLU:O	1:A:67:ILE:HG23	1.91	0.71
1:E:226:ASP:OD2	1:E:229:ARG:NH1	2.23	0.71
1:F:487:ARG:HB3	1:F:513:PHE:CD2	2.25	0.71
1:B:63:GLU:O	1:B:67:ILE:HG23	1.91	0.71
1:B:487:ARG:HB3	1:B:513:PHE:CD2	2.25	0.71
1:F:238:LYS:HG3	1:F:318:VAL:HG21	1.72	0.71
1:G:481:ALA:HB3	1:G:509:VAL:HG12	1.72	0.71
1:G:587:LYS:HG3	1:G:588:LYS:HG2	1.72	0.71
1:C:487:ARG:HB3	1:C:513:PHE:CD2	2.25	0.71
1:D:62:VAL:HB	1:D:63:GLU:OE2	1.91	0.71
1:H:406:ILE:HG22	1:H:410:TYR:OH	1.90	0.71
1:A:238:LYS:HG3	1:A:318:VAL:HG21	1.72	0.71
1:A:487:ARG:HB3	1:A:513:PHE:CD2	2.25	0.71
1:H:409:LEU:HB3	1:H:412:PHE:HA	1.73	0.71
1:B:62:VAL:HB	1:B:63:GLU:OE2	1.91	0.71
1:F:62:VAL:HB	1:F:63:GLU:OE2	1.91	0.71
1:G:458:PRO:HG3	1:G:627:THR:HB	1.72	0.71
1:B:230:ALA:O	1:B:234:ILE:HG12	1.90	0.71
1:B:447:LYS:HG3	1:B:448:ARG:O	1.91	0.71
1:C:226:ASP:OD2	1:C:229:ARG:NH1	2.23	0.71
1:C:447:LYS:HG3	1:C:448:ARG:O	1.91	0.71
1:E:63:GLU:O	1:E:67:ILE:HG23	1.91	0.71
1:E:487:ARG:HB3	1:E:513:PHE:CD2	2.25	0.71
1:C:230:ALA:O	1:C:234:ILE:HG12	1.90	0.71
1:C:487:ARG:HB3	1:C:513:PHE:HD2	1.56	0.71
1:G:680:MET:HE1	1:G:705:ALA:HB2	1.72	0.71
1:A:487:ARG:HB3	1:A:513:PHE:HD2	1.56	0.71
1:C:562:ASP:OD1	1:C:562:ASP:N	2.19	0.71
1:A:62:VAL:HB	1:A:63:GLU:OE2	1.91	0.71
1:C:62:VAL:HB	1:C:63:GLU:OE2	1.91	0.71
1:D:230:ALA:O	1:D:234:ILE:HG12	1.90	0.71
1:D:487:ARG:HB3	1:D:513:PHE:HD2	1.56	0.71
1:F:447:LYS:HG3	1:F:448:ARG:O	1.91	0.71
1:C:238:LYS:HG3	1:C:318:VAL:HG21	1.73	0.70
1:D:447:LYS:HG3	1:D:448:ARG:O	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:487:ARG:HB3	1:D:513:PHE:CD2	2.25	0.70
1:E:447:LYS:HG3	1:E:448:ARG:O	1.91	0.70
1:F:63:GLU:O	1:F:67:ILE:HG23	1.90	0.70
1:E:238:LYS:HG3	1:E:318:VAL:HG21	1.72	0.70
1:G:484:VAL:HG11	1:G:551:ALA:HB2	1.72	0.70
1:C:63:GLU:O	1:C:67:ILE:HG23	1.91	0.70
1:F:530:ALA:O	1:F:533:SER:OG	2.07	0.70
1:A:530:ALA:O	1:A:533:SER:OG	2.07	0.70
1:A:638:VAL:HG23	1:A:641:MET:HB3	1.74	0.70
1:B:638:VAL:HG23	1:B:641:MET:HB3	1.74	0.70
1:D:63:GLU:O	1:D:67:ILE:HG23	1.91	0.70
1:E:62:VAL:HB	1:E:63:GLU:OE2	1.91	0.70
1:H:219:VAL:HG22	1:H:371:GLY:HA3	1.71	0.70
1:A:447:LYS:HG3	1:A:448:ARG:O	1.91	0.70
1:A:590:GLU:OE1	1:A:590:GLU:N	2.25	0.70
1:B:530:ALA:O	1:B:533:SER:OG	2.07	0.70
1:F:590:GLU:OE1	1:F:590:GLU:N	2.25	0.70
1:B:487:ARG:HB3	1:B:513:PHE:HD2	1.56	0.70
1:D:590:GLU:OE1	1:D:590:GLU:N	2.25	0.70
1:F:562:ASP:OD1	1:F:562:ASP:N	2.19	0.70
1:A:283:ARG:NH1	1:A:323:GLY:O	2.25	0.70
1:C:99:THR:HA	1:C:443:LYS:O	1.92	0.70
1:C:590:GLU:N	1:C:590:GLU:OE1	2.25	0.70
1:D:476:GLU:OE1	1:D:476:GLU:N	2.25	0.70
1:E:283:ARG:NH1	1:E:323:GLY:O	2.25	0.70
1:F:170:ILE:HD11	1:F:181:LEU:HD21	1.74	0.70
1:B:283:ARG:NH1	1:B:323:GLY:O	2.25	0.70
1:D:638:VAL:HG23	1:D:641:MET:HB3	1.74	0.70
1:E:476:GLU:N	1:E:476:GLU:OE1	2.25	0.70
1:C:570:MET:HE1	1:D:74:GLU:HG2	1.73	0.70
1:E:590:GLU:OE1	1:E:590:GLU:N	2.25	0.70
1:F:99:THR:HA	1:F:443:LYS:O	1.92	0.70
1:F:283:ARG:NH1	1:F:323:GLY:O	2.25	0.70
1:B:574:ASP:H	1:B:577:LYS:HZ1	1.40	0.69
1:C:170:ILE:HD11	1:C:181:LEU:HD21	1.74	0.69
1:F:792:GLN:HE21	1:F:796:ARG:HH11	1.40	0.69
1:B:238:LYS:HG3	1:B:318:VAL:HG21	1.73	0.69
1:A:476:GLU:OE1	1:A:476:GLU:N	2.25	0.69
1:B:476:GLU:N	1:B:476:GLU:OE1	2.25	0.69
1:H:239:THR:HG22	1:H:317:LYS:HG2	1.74	0.69
1:D:574:ASP:H	1:D:577:LYS:NZ	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:440:ILE:O	1:H:442:LYS:NZ	2.26	0.69
1:B:170:ILE:HD11	1:B:181:LEU:HD21	1.74	0.69
1:B:590:GLU:OE1	1:B:590:GLU:N	2.25	0.69
1:C:639:MET:HB3	1:C:693:ALA:HB2	1.75	0.69
1:D:283:ARG:NH1	1:D:323:GLY:O	2.25	0.69
1:D:328:SER:OG	1:D:330:ASP:OD1	2.11	0.69
1:E:328:SER:OG	1:E:330:ASP:OD1	2.11	0.69
1:E:487:ARG:HB3	1:E:513:PHE:HD2	1.56	0.69
1:B:750:TYR:O	1:B:846:ARG:NH2	2.26	0.69
1:D:792:GLN:HE21	1:D:796:ARG:HH11	1.40	0.69
1:E:639:MET:HB3	1:E:693:ALA:HB2	1.75	0.69
1:B:328:SER:OG	1:B:330:ASP:OD1	2.11	0.69
1:C:328:SER:OG	1:C:330:ASP:OD1	2.11	0.69
1:C:638:VAL:HG23	1:C:641:MET:HB3	1.74	0.69
1:D:750:TYR:O	1:D:846:ARG:NH2	2.26	0.69
1:F:574:ASP:H	1:F:577:LYS:NZ	1.91	0.69
1:A:170:ILE:HD11	1:A:181:LEU:HD21	1.74	0.69
1:A:750:TYR:O	1:A:846:ARG:NH2	2.26	0.69
1:D:170:ILE:HD11	1:D:181:LEU:HD21	1.74	0.69
1:D:238:LYS:HG3	1:D:318:VAL:HG21	1.72	0.69
1:D:393:ALA:HA	1:D:430:ILE:HG23	1.75	0.69
1:E:776:GLU:O	1:E:780:HIS:HB2	1.93	0.69
1:F:776:GLU:O	1:F:780:HIS:HB2	1.93	0.69
1:A:776:GLU:O	1:A:780:HIS:HB2	1.93	0.69
1:C:283:ARG:NH1	1:C:323:GLY:O	2.25	0.69
1:C:476:GLU:OE1	1:C:476:GLU:N	2.25	0.69
1:E:638:VAL:HG23	1:E:641:MET:HB3	1.74	0.69
1:E:792:GLN:HE21	1:E:796:ARG:HH11	1.40	0.69
1:C:776:GLU:O	1:C:780:HIS:HB2	1.93	0.69
1:E:443:LYS:NZ	1:F:392:THR:O	2.16	0.69
1:A:226:ASP:OD2	1:A:229:ARG:NH1	2.23	0.68
1:B:393:ALA:HA	1:B:430:ILE:HG23	1.75	0.68
1:D:776:GLU:O	1:D:780:HIS:HB2	1.93	0.68
1:E:99:THR:HA	1:E:443:LYS:O	1.92	0.68
1:E:200:LYS:HG2	1:E:425:TRP:CZ3	2.28	0.68
1:E:750:TYR:O	1:E:846:ARG:NH2	2.26	0.68
1:A:78:ASN:HA	1:A:81:LYS:CE	2.24	0.68
1:B:99:THR:HA	1:B:443:LYS:O	1.92	0.68
1:F:476:GLU:OE1	1:F:476:GLU:N	2.25	0.68
1:A:99:THR:HA	1:A:443:LYS:O	1.92	0.68
1:A:571:ARG:CZ	1:B:81:LYS:HZ1	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:776:GLU:O	1:B:780:HIS:HB2	1.93	0.68
1:B:792:GLN:HE21	1:B:796:ARG:HH11	1.40	0.68
1:D:99:THR:HA	1:D:443:LYS:O	1.92	0.68
1:F:78:ASN:HA	1:F:81:LYS:CE	2.24	0.68
1:F:638:VAL:HG23	1:F:641:MET:HB3	1.74	0.68
1:C:200:LYS:HG2	1:C:425:TRP:CZ3	2.28	0.68
1:D:567:GLU:OE1	1:D:567:GLU:N	2.26	0.68
1:E:393:ALA:HA	1:E:430:ILE:HG23	1.75	0.68
1:F:487:ARG:HB3	1:F:513:PHE:HD2	1.56	0.68
1:A:673:GLN:OE1	1:A:673:GLN:N	2.27	0.68
1:C:92:ASP:O	1:C:96:GLY:N	2.27	0.68
1:D:78:ASN:HA	1:D:81:LYS:CE	2.24	0.68
1:A:154:LEU:HD13	1:A:167:ILE:HG12	1.76	0.68
1:A:200:LYS:HG2	1:A:425:TRP:CZ3	2.28	0.68
1:A:571:ARG:CZ	1:B:81:LYS:NZ	2.57	0.68
1:B:574:ASP:H	1:B:577:LYS:NZ	1.91	0.68
1:B:673:GLN:OE1	1:B:673:GLN:N	2.27	0.68
1:C:750:TYR:O	1:C:846:ARG:NH2	2.26	0.68
1:E:574:ASP:H	1:E:577:LYS:NZ	1.91	0.68
1:F:750:TYR:O	1:F:846:ARG:NH2	2.26	0.68
1:A:792:GLN:HE21	1:A:796:ARG:HH11	1.40	0.68
1:C:574:ASP:H	1:C:577:LYS:NZ	1.91	0.68
1:E:170:ILE:HD11	1:E:181:LEU:HD21	1.74	0.68
1:G:571:ARG:HH21	1:G:580:TYR:N	1.92	0.68
1:G:571:ARG:HH21	1:G:580:TYR:H	1.40	0.68
1:B:200:LYS:HG2	1:B:425:TRP:CZ3	2.28	0.68
1:D:200:LYS:HG2	1:D:425:TRP:CZ3	2.28	0.68
1:E:92:ASP:O	1:E:96:GLY:N	2.27	0.68
1:E:200:LYS:HG2	1:E:425:TRP:CE3	2.29	0.68
1:E:530:ALA:O	1:E:533:SER:OG	2.07	0.68
1:A:328:SER:OG	1:A:330:ASP:OD1	2.11	0.68
1:B:242:ASN:HB3	1:B:340:PRO:HD3	1.76	0.68
1:D:200:LYS:HG2	1:D:425:TRP:CE3	2.29	0.68
1:E:242:ASN:HB3	1:E:340:PRO:HD3	1.76	0.68
1:A:200:LYS:HG2	1:A:425:TRP:CE3	2.29	0.68
1:A:574:ASP:H	1:A:577:LYS:NZ	1.91	0.68
1:C:200:LYS:HG2	1:C:425:TRP:CE3	2.29	0.68
1:E:154:LEU:HD13	1:E:167:ILE:HG12	1.76	0.68
1:E:673:GLN:OE1	1:E:673:GLN:N	2.27	0.68
1:F:200:LYS:HG2	1:F:425:TRP:CZ3	2.28	0.68
1:F:242:ASN:HB3	1:F:340:PRO:HD3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:328:SER:OG	1:F:330:ASP:OD1	2.11	0.68
1:F:393:ALA:HA	1:F:430:ILE:HG23	1.75	0.68
1:F:673:GLN:N	1:F:673:GLN:OE1	2.27	0.68
1:B:78:ASN:HA	1:B:81:LYS:CE	2.24	0.67
1:B:200:LYS:HG2	1:B:425:TRP:CE3	2.29	0.67
1:C:242:ASN:HB3	1:C:340:PRO:HD3	1.76	0.67
1:C:393:ALA:HA	1:C:430:ILE:HG23	1.75	0.67
1:D:530:ALA:O	1:D:533:SER:OG	2.07	0.67
1:B:92:ASP:O	1:B:96:GLY:N	2.27	0.67
1:D:242:ASN:HB3	1:D:340:PRO:HD3	1.76	0.67
1:F:376:GLN:OE1	1:F:376:GLN:N	2.26	0.67
1:A:92:ASP:O	1:A:96:GLY:N	2.27	0.67
1:B:639:MET:HB3	1:B:693:ALA:HB2	1.75	0.67
1:D:92:ASP:O	1:D:96:GLY:N	2.27	0.67
1:D:673:GLN:OE1	1:D:673:GLN:N	2.27	0.67
1:G:483:LEU:HB3	1:G:511:THR:HA	1.76	0.67
1:H:328:SER:OG	1:H:330:ASP:OD1	2.12	0.67
1:B:224:THR:HG23	1:B:375:ASN:H	1.60	0.67
1:D:639:MET:HB3	1:D:693:ALA:HB2	1.75	0.67
1:F:200:LYS:HG2	1:F:425:TRP:CE3	2.29	0.67
1:F:639:MET:HB3	1:F:693:ALA:HB2	1.75	0.67
1:A:639:MET:HB3	1:A:693:ALA:HB2	1.75	0.67
1:C:78:ASN:HA	1:C:81:LYS:CE	2.24	0.67
1:E:78:ASN:HA	1:E:81:LYS:CE	2.24	0.67
1:G:480:ARG:NH2	1:G:534:PHE:O	2.28	0.67
1:A:52:MET:HA	1:A:55:GLU:HG3	1.77	0.67
1:B:567:GLU:OE1	1:B:567:GLU:N	2.26	0.67
1:C:224:THR:HG23	1:C:375:ASN:H	1.60	0.67
1:D:224:THR:HG23	1:D:375:ASN:H	1.60	0.67
1:F:92:ASP:O	1:F:96:GLY:N	2.27	0.67
1:B:52:MET:HA	1:B:55:GLU:HG3	1.77	0.67
1:B:109:GLY:N	1:B:135:ILE:O	2.28	0.67
1:C:673:GLN:N	1:C:673:GLN:OE1	2.27	0.67
1:E:65:LYS:O	1:E:68:LYS:HG2	1.95	0.67
1:E:224:THR:HG23	1:E:375:ASN:H	1.60	0.67
1:F:52:MET:HA	1:F:55:GLU:HG3	1.77	0.67
1:D:154:LEU:HD13	1:D:167:ILE:HG12	1.76	0.67
1:E:109:GLY:N	1:E:135:ILE:O	2.28	0.67
1:B:788:ASP:OD1	1:B:792:GLN:NE2	2.28	0.67
1:E:52:MET:HA	1:E:55:GLU:HG3	1.77	0.67
1:G:567:GLU:OE1	1:H:36:ARG:NH1	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:65:LYS:O	1:A:68:LYS:HG2	1.95	0.66
1:A:788:ASP:OD1	1:A:792:GLN:NE2	2.28	0.66
1:C:52:MET:HA	1:C:55:GLU:HG3	1.77	0.66
1:D:52:MET:HA	1:D:55:GLU:HG3	1.77	0.66
1:E:759:GLN:HE22	1:E:849:LEU:HD22	1.61	0.66
1:F:154:LEU:HD13	1:F:167:ILE:HG12	1.76	0.66
1:F:483:LEU:HB3	1:F:511:THR:HA	1.77	0.66
1:C:65:LYS:O	1:C:68:LYS:HG2	1.95	0.66
1:E:567:GLU:N	1:E:567:GLU:OE1	2.26	0.66
1:F:574:ASP:N	1:F:577:LYS:HZ1	1.92	0.66
1:G:759:GLN:HB3	1:G:847:TYR:HB2	1.77	0.66
1:G:475:LEU:HD12	1:G:478:LYS:HE3	1.76	0.66
1:C:788:ASP:OD1	1:C:792:GLN:NE2	2.28	0.66
1:E:376:GLN:OE1	1:E:376:GLN:N	2.26	0.66
1:F:788:ASP:OD1	1:F:792:GLN:NE2	2.28	0.66
1:G:840:CYS:N	1:G:841:THR:OG1	2.29	0.66
1:A:376:GLN:OE1	1:A:376:GLN:N	2.26	0.66
1:D:483:LEU:HB3	1:D:511:THR:HA	1.77	0.66
1:D:574:ASP:H	1:D:577:LYS:HZ1	1.41	0.66
1:F:65:LYS:O	1:F:68:LYS:HG2	1.95	0.66
1:H:46:ARG:HG2	1:H:47:ILE:HG13	1.78	0.66
1:A:393:ALA:HA	1:A:430:ILE:HG23	1.75	0.66
1:A:571:ARG:NH1	1:B:81:LYS:NZ	2.41	0.66
1:A:759:GLN:HE22	1:A:849:LEU:HD22	1.61	0.66
1:D:759:GLN:HE22	1:D:849:LEU:HD22	1.61	0.66
1:E:562:ASP:N	1:E:562:ASP:OD1	2.19	0.66
1:H:46:ARG:HG3	1:H:66:VAL:HG13	1.78	0.66
1:B:65:LYS:O	1:B:68:LYS:HG2	1.95	0.66
1:B:759:GLN:HE22	1:B:849:LEU:HD22	1.61	0.66
1:C:154:LEU:HD13	1:C:167:ILE:HG12	1.76	0.66
1:C:792:GLN:HE21	1:C:796:ARG:HH11	1.40	0.66
1:D:65:LYS:O	1:D:68:LYS:HG2	1.95	0.66
1:D:109:GLY:N	1:D:135:ILE:O	2.28	0.66
1:A:466:GLY:H	1:A:636:ASN:HD21	1.44	0.66
1:A:606:PRO:HG3	1:A:624:TYR:HD1	1.61	0.66
1:E:606:PRO:HG3	1:E:624:TYR:HD1	1.61	0.66
1:A:242:ASN:HB3	1:A:340:PRO:HD3	1.76	0.66
1:D:606:PRO:HG3	1:D:624:TYR:HD1	1.61	0.66
1:E:788:ASP:OD1	1:E:792:GLN:NE2	2.28	0.66
1:F:606:PRO:HG3	1:F:624:TYR:HD1	1.61	0.66
1:B:483:LEU:HB3	1:B:511:THR:HA	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:109:GLY:N	1:C:135:ILE:O	2.28	0.66
1:D:788:ASP:OD1	1:D:792:GLN:NE2	2.28	0.66
1:F:224:THR:HG23	1:F:375:ASN:H	1.60	0.66
1:G:482:PHE:HD2	1:G:510:GLN:HE21	1.44	0.66
1:H:297:VAL:O	1:H:299:GLN:NE2	2.28	0.66
1:B:612:ASP:HB3	1:B:617:ALA:H	1.61	0.65
1:F:466:GLY:H	1:F:636:ASN:HD21	1.44	0.65
1:F:567:GLU:OE1	1:F:567:GLU:N	2.26	0.65
1:A:552:LYS:O	1:A:555:TRP:HB3	1.97	0.65
1:A:574:ASP:N	1:A:577:LYS:HZ1	1.93	0.65
1:C:466:GLY:H	1:C:636:ASN:HD21	1.44	0.65
1:C:612:ASP:HB3	1:C:617:ALA:H	1.61	0.65
1:D:376:GLN:N	1:D:376:GLN:OE1	2.26	0.65
1:D:552:LYS:O	1:D:555:TRP:HB3	1.96	0.65
1:C:759:GLN:HE22	1:C:849:LEU:HD22	1.61	0.65
1:B:154:LEU:HD13	1:B:167:ILE:HG12	1.76	0.65
1:B:552:LYS:O	1:B:555:TRP:HB3	1.97	0.65
1:C:483:LEU:HB3	1:C:511:THR:HA	1.77	0.65
1:A:224:THR:HG23	1:A:375:ASN:H	1.60	0.65
1:C:552:LYS:O	1:C:555:TRP:HB3	1.97	0.65
1:E:574:ASP:N	1:E:577:LYS:HZ1	1.93	0.65
1:F:759:GLN:HE22	1:F:849:LEU:HD22	1.61	0.65
1:E:78:ASN:HA	1:E:81:LYS:HE3	1.79	0.65
1:E:483:LEU:HB3	1:E:511:THR:HA	1.77	0.65
1:H:23:PHE:HB2	1:H:163:PRO:HG2	1.78	0.65
1:C:78:ASN:HA	1:C:81:LYS:HE3	1.79	0.65
1:D:23:PHE:HB2	1:D:163:PRO:HG2	1.79	0.65
1:E:23:PHE:HB2	1:E:163:PRO:HG2	1.79	0.65
1:F:78:ASN:HA	1:F:81:LYS:HE3	1.79	0.65
1:A:483:LEU:HB3	1:A:511:THR:HA	1.77	0.65
1:D:78:ASN:HA	1:D:81:LYS:HE3	1.79	0.65
1:E:612:ASP:HB3	1:E:617:ALA:H	1.62	0.65
1:F:23:PHE:HB2	1:F:163:PRO:HG2	1.79	0.65
1:G:805:LYS:HD2	1:G:810:ILE:HD11	1.77	0.65
1:H:34:ILE:HG12	1:H:160:ALA:HB1	1.79	0.65
1:A:109:GLY:N	1:A:135:ILE:O	2.28	0.65
1:A:229:ARG:HH22	1:B:764:GLN:HE21	1.44	0.65
1:A:567:GLU:OE1	1:A:567:GLU:N	2.26	0.65
1:A:612:ASP:HB3	1:A:617:ALA:H	1.61	0.65
1:B:260:ASP:HA	1:B:263:LYS:HD3	1.80	0.65
1:B:606:PRO:HG3	1:B:624:TYR:HD1	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:567:GLU:OE1	1:C:567:GLU:N	2.26	0.65
1:C:606:PRO:HG3	1:C:624:TYR:HD1	1.61	0.65
1:D:466:GLY:H	1:D:636:ASN:HD21	1.43	0.65
1:E:552:LYS:O	1:E:555:TRP:HB3	1.97	0.65
1:F:552:LYS:O	1:F:555:TRP:HB3	1.97	0.65
1:F:612:ASP:HB3	1:F:617:ALA:H	1.61	0.65
1:B:461:ILE:HA	1:B:631:ALA:O	1.98	0.64
1:F:109:GLY:N	1:F:135:ILE:O	2.28	0.64
1:A:23:PHE:HB2	1:A:163:PRO:HG2	1.79	0.64
1:F:389:LYS:HD3	1:F:389:LYS:N	2.12	0.64
1:A:654:VAL:O	1:A:658:LEU:HD12	1.98	0.64
1:C:260:ASP:HA	1:C:263:LYS:HD3	1.80	0.64
1:C:401:THR:OG1	1:C:401:THR:O	2.14	0.64
1:H:228:LYS:HG2	1:H:265:ARG:HH12	1.62	0.64
1:A:229:ARG:HD3	1:B:765:TYR:OH	1.97	0.64
1:B:23:PHE:HB2	1:B:163:PRO:HG2	1.79	0.64
1:B:513:PHE:N	1:B:514:GLU:OE1	2.31	0.64
1:C:389:LYS:HD3	1:C:389:LYS:N	2.12	0.64
1:D:401:THR:O	1:D:401:THR:OG1	2.14	0.64
1:D:461:ILE:HA	1:D:631:ALA:O	1.98	0.64
1:D:654:VAL:O	1:D:658:LEU:HD12	1.98	0.64
1:E:389:LYS:N	1:E:389:LYS:HD3	2.12	0.64
1:A:260:ASP:HA	1:A:263:LYS:HD3	1.79	0.64
1:A:461:ILE:HA	1:A:631:ALA:O	1.98	0.64
1:B:94:ASN:OD1	1:C:469:PRO:HB2	1.98	0.64
1:D:513:PHE:N	1:D:514:GLU:OE1	2.30	0.64
1:D:612:ASP:HB3	1:D:617:ALA:H	1.61	0.64
1:E:260:ASP:HA	1:E:263:LYS:HD3	1.79	0.64
1:E:513:PHE:N	1:E:514:GLU:OE1	2.30	0.64
1:E:654:VAL:O	1:E:658:LEU:HD12	1.98	0.64
1:G:644:SER:HB2	1:G:647:ALA:HB3	1.79	0.64
1:F:260:ASP:HA	1:F:263:LYS:HD3	1.80	0.64
1:F:654:VAL:O	1:F:658:LEU:HD12	1.98	0.64
1:B:549:ASP:OD1	1:B:550:ALA:N	2.31	0.64
1:F:513:PHE:N	1:F:514:GLU:OE1	2.31	0.64
1:G:691:ASN:HA	1:G:694:LYS:HZ2	1.62	0.64
1:A:606:PRO:HB3	1:A:627:THR:HG23	1.80	0.64
1:B:389:LYS:HD3	1:B:389:LYS:N	2.12	0.64
1:C:654:VAL:O	1:C:658:LEU:HD12	1.98	0.64
1:D:389:LYS:HD3	1:D:389:LYS:N	2.12	0.64
1:D:840:CYS:N	1:D:841:THR:OG1	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:549:ASP:OD1	1:E:550:ALA:N	2.31	0.64
1:F:401:THR:OG1	1:F:401:THR:O	2.14	0.64
1:F:549:ASP:OD1	1:F:550:ALA:N	2.31	0.64
1:F:564:HIS:ND1	1:F:566:GLU:OE2	2.31	0.64
1:A:389:LYS:HD3	1:A:389:LYS:N	2.12	0.64
1:C:376:GLN:OE1	1:C:376:GLN:N	2.26	0.64
1:C:513:PHE:N	1:C:514:GLU:OE1	2.31	0.64
1:C:840:CYS:N	1:C:841:THR:OG1	2.31	0.64
1:E:466:GLY:H	1:E:636:ASN:HD21	1.43	0.64
1:E:697:ILE:O	1:E:701:LYS:HG3	1.98	0.64
1:G:576:ARG:HG3	1:H:408:ASP:HB3	1.80	0.64
1:B:840:CYS:N	1:B:841:THR:OG1	2.31	0.64
1:C:549:ASP:OD1	1:C:550:ALA:N	2.31	0.64
1:D:260:ASP:HA	1:D:263:LYS:HD3	1.80	0.64
1:H:143:LYS:HD2	1:H:173:PRO:HD3	1.80	0.64
1:A:513:PHE:N	1:A:514:GLU:OE1	2.31	0.63
1:C:639:MET:HB3	1:C:693:ALA:CB	2.29	0.63
1:G:814:ILE:HB	1:G:861:TYR:CD1	2.33	0.63
1:A:564:HIS:ND1	1:A:566:GLU:OE2	2.31	0.63
1:A:639:MET:HB3	1:A:693:ALA:CB	2.28	0.63
1:C:23:PHE:HB2	1:C:163:PRO:HG2	1.79	0.63
1:C:697:ILE:O	1:C:701:LYS:HG3	1.98	0.63
1:E:461:ILE:HA	1:E:631:ALA:O	1.98	0.63
1:E:840:CYS:N	1:E:841:THR:OG1	2.31	0.63
1:C:606:PRO:HB3	1:C:627:THR:HG23	1.80	0.63
1:A:270:LYS:NZ	1:B:757:THR:O	2.31	0.63
1:B:606:PRO:HB3	1:B:627:THR:HG23	1.80	0.63
1:F:840:CYS:N	1:F:841:THR:OG1	2.31	0.63
1:A:443:LYS:HZ3	1:B:392:THR:C	2.02	0.63
1:B:78:ASN:HA	1:B:81:LYS:HE3	1.79	0.63
1:B:401:THR:O	1:B:401:THR:OG1	2.14	0.63
1:D:549:ASP:OD1	1:D:550:ALA:N	2.31	0.63
1:D:723:SER:HG	1:D:840:CYS:HG	1.17	0.63
1:F:425:TRP:C	1:F:425:TRP:CD1	2.72	0.63
1:B:376:GLN:OE1	1:B:376:GLN:N	2.26	0.63
1:B:562:ASP:OD1	1:B:562:ASP:N	2.19	0.63
1:B:564:HIS:ND1	1:B:566:GLU:OE2	2.31	0.63
1:C:197:GLY:HA2	1:C:200:LYS:CE	2.29	0.63
1:C:461:ILE:HA	1:C:631:ALA:O	1.98	0.63
1:C:564:HIS:ND1	1:C:566:GLU:OE2	2.31	0.63
1:D:197:GLY:HA2	1:D:200:LYS:CE	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:532:GLN:O	1:E:535:GLN:NE2	2.32	0.63
1:F:197:GLY:HA2	1:F:200:LYS:CE	2.29	0.63
1:G:788:ASP:HA	1:G:792:GLN:HE21	1.62	0.63
1:A:549:ASP:OD1	1:A:550:ALA:N	2.31	0.63
1:B:466:GLY:H	1:B:636:ASN:HD21	1.44	0.63
1:B:654:VAL:O	1:B:658:LEU:HD12	1.98	0.63
1:F:697:ILE:O	1:F:701:LYS:HG3	1.98	0.63
1:G:847:TYR:OH	1:H:405:GLY:O	2.17	0.63
1:A:78:ASN:HA	1:A:81:LYS:HE3	1.79	0.63
1:A:532:GLN:O	1:A:535:GLN:NE2	2.32	0.63
1:A:697:ILE:O	1:A:701:LYS:HG3	1.98	0.63
1:D:723:SER:HB3	1:D:839:GLN:NE2	2.14	0.63
1:E:5:ASN:C	1:E:9:LEU:HD22	2.20	0.63
1:E:425:TRP:CD1	1:E:425:TRP:C	2.72	0.63
1:G:531:MET:O	1:G:535:GLN:N	2.29	0.63
1:B:697:ILE:O	1:B:701:LYS:HG3	1.98	0.63
1:D:5:ASN:C	1:D:9:LEU:HD22	2.20	0.63
1:D:564:HIS:ND1	1:D:566:GLU:OE2	2.31	0.63
1:F:532:GLN:O	1:F:535:GLN:NE2	2.32	0.63
1:F:723:SER:HB3	1:F:839:GLN:NE2	2.14	0.63
1:B:425:TRP:CD1	1:B:425:TRP:C	2.72	0.62
1:C:523:VAL:HA	1:C:526:LYS:NZ	2.14	0.62
1:A:401:THR:O	1:A:401:THR:OG1	2.14	0.62
1:A:425:TRP:C	1:A:425:TRP:CD1	2.72	0.62
1:D:532:GLN:O	1:D:535:GLN:NE2	2.32	0.62
1:A:523:VAL:HA	1:A:526:LYS:NZ	2.14	0.62
1:A:723:SER:HB3	1:A:839:GLN:NE2	2.14	0.62
1:B:523:VAL:HA	1:B:526:LYS:NZ	2.14	0.62
1:B:639:MET:HB3	1:B:693:ALA:CB	2.29	0.62
1:C:425:TRP:CD1	1:C:425:TRP:C	2.72	0.62
1:D:606:PRO:HB3	1:D:627:THR:HG23	1.80	0.62
1:E:197:GLY:HA2	1:E:200:LYS:CE	2.29	0.62
1:E:606:PRO:HB3	1:E:627:THR:HG23	1.80	0.62
1:F:575:ILE:HD11	1:F:717:PHE:CD1	2.35	0.62
1:G:833:VAL:HG12	1:G:850:ILE:HG21	1.80	0.62
1:E:406:ILE:CG2	1:F:762:PHE:HD2	2.08	0.62
1:E:564:HIS:ND1	1:E:566:GLU:OE2	2.31	0.62
1:E:723:SER:HB3	1:E:839:GLN:NE2	2.14	0.62
1:F:5:ASN:C	1:F:9:LEU:HD22	2.19	0.62
1:F:461:ILE:HA	1:F:631:ALA:O	1.98	0.62
1:G:460:SER:OG	1:G:630:MET:SD	2.51	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:662:VAL:HA	1:G:773:ARG:HE	1.65	0.62
1:G:680:MET:CE	1:G:705:ALA:HB2	2.29	0.62
1:G:680:MET:SD	1:G:701:LYS:HG3	2.40	0.62
1:A:197:GLY:HA2	1:A:200:LYS:CE	2.29	0.62
1:A:815:GLN:HB3	1:A:861:TYR:CE2	2.35	0.62
1:A:840:CYS:N	1:A:841:THR:OG1	2.31	0.62
1:D:523:VAL:HA	1:D:526:LYS:NZ	2.14	0.62
1:D:575:ILE:HD11	1:D:717:PHE:CD1	2.35	0.62
1:B:197:GLY:HA2	1:B:200:LYS:CE	2.29	0.62
1:D:697:ILE:O	1:D:701:LYS:HG3	1.98	0.62
1:E:523:VAL:HA	1:E:526:LYS:NZ	2.14	0.62
1:E:639:MET:HB3	1:E:693:ALA:CB	2.29	0.62
1:G:641:MET:SD	1:G:646:THR:OG1	2.53	0.62
1:A:5:ASN:C	1:A:9:LEU:HD22	2.20	0.62
1:B:575:ILE:HD11	1:B:717:PHE:CD1	2.35	0.62
1:D:639:MET:HB3	1:D:693:ALA:CB	2.29	0.62
1:C:723:SER:HB3	1:C:839:GLN:NE2	2.14	0.62
1:F:639:MET:HB3	1:F:693:ALA:CB	2.29	0.62
1:H:405:GLY:HA3	1:H:410:TYR:CD2	2.34	0.62
1:A:433:ASN:OD1	1:A:434:VAL:N	2.33	0.62
1:F:433:ASN:OD1	1:F:434:VAL:N	2.33	0.62
1:F:815:GLN:HB3	1:F:861:TYR:CE2	2.35	0.62
1:B:5:ASN:C	1:B:9:LEU:HD22	2.20	0.62
1:E:575:ILE:HD11	1:E:717:PHE:CD1	2.35	0.62
1:B:815:GLN:HB3	1:B:861:TYR:CE2	2.35	0.61
1:C:532:GLN:O	1:C:535:GLN:NE2	2.32	0.61
1:C:575:ILE:HD11	1:C:717:PHE:CD1	2.35	0.61
1:D:130:THR:OG1	1:D:132:ASN:ND2	2.33	0.61
1:D:841:THR:N	1:D:842:GLY:HA3	2.15	0.61
1:E:401:THR:OG1	1:E:401:THR:O	2.14	0.61
1:G:664:VAL:HA	1:G:767:ARG:HD2	1.81	0.61
1:A:575:ILE:HD11	1:A:717:PHE:CD1	2.35	0.61
1:C:574:ASP:N	1:C:577:LYS:HZ1	1.97	0.61
1:A:484:VAL:HG11	1:A:551:ALA:HB2	1.83	0.61
1:D:815:GLN:HB3	1:D:861:TYR:CE2	2.35	0.61
1:G:830:GLU:HA	1:G:833:VAL:HG22	1.81	0.61
1:H:154:LEU:O	1:H:158:ILE:HG12	2.01	0.61
1:D:425:TRP:C	1:D:425:TRP:CD1	2.72	0.61
1:D:433:ASN:OD1	1:D:434:VAL:N	2.33	0.61
1:G:457:LEU:HD11	1:G:711:ILE:HG23	1.80	0.61
1:A:6:LEU:H	1:A:6:LEU:HD22	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:6:LEU:HD22	1:B:6:LEU:H	1.66	0.61
1:B:532:GLN:O	1:B:535:GLN:NE2	2.32	0.61
1:B:574:ASP:N	1:B:577:LYS:HZ1	1.99	0.61
1:C:5:ASN:C	1:C:9:LEU:HD22	2.20	0.61
1:D:819:VAL:O	1:D:861:TYR:OH	2.18	0.61
1:F:606:PRO:HB3	1:F:627:THR:HG23	1.80	0.61
1:G:758:LYS:HZ1	1:G:846:ARG:NH1	1.98	0.61
1:G:853:LEU:O	1:G:857:LEU:HG	2.00	0.61
1:B:433:ASN:OD1	1:B:434:VAL:N	2.33	0.61
1:B:723:SER:HB3	1:B:839:GLN:NE2	2.14	0.61
1:C:753:ASN:HD22	1:C:846:ARG:NH1	1.99	0.61
1:C:815:GLN:HB3	1:C:861:TYR:CE2	2.35	0.61
1:C:433:ASN:OD1	1:C:434:VAL:N	2.33	0.61
1:D:484:VAL:HG11	1:D:551:ALA:HB2	1.82	0.61
1:E:718:LEU:HD21	1:E:839:GLN:HE22	1.66	0.61
1:F:130:THR:OG1	1:F:132:ASN:ND2	2.33	0.61
1:F:718:LEU:HD21	1:F:839:GLN:HE22	1.66	0.61
1:G:520:THR:OG1	1:G:523:VAL:N	2.30	0.61
1:A:819:VAL:O	1:A:861:TYR:OH	2.18	0.61
1:C:274:LEU:HD11	1:C:278:ASP:HB2	1.83	0.61
1:E:445:VAL:HG23	1:F:395:ILE:HB	1.82	0.61
1:F:634:ASP:OD1	1:F:635:ALA:N	2.34	0.61
1:F:753:ASN:HD22	1:F:846:ARG:NH1	1.99	0.61
1:H:143:LYS:HG2	1:H:147:ASN:HD21	1.66	0.61
1:B:841:THR:N	1:B:842:GLY:HA3	2.15	0.61
1:C:612:ASP:OD1	1:C:613:ASP:N	2.34	0.61
1:D:274:LEU:HD11	1:D:278:ASP:HB2	1.83	0.61
1:A:762:PHE:CD2	1:B:406:ILE:HG23	2.35	0.61
1:C:841:THR:N	1:C:842:GLY:HA3	2.15	0.61
1:A:841:THR:N	1:A:842:GLY:HA3	2.15	0.60
1:B:718:LEU:HD21	1:B:839:GLN:HE22	1.66	0.60
1:C:819:VAL:O	1:C:861:TYR:OH	2.18	0.60
1:E:433:ASN:OD1	1:E:434:VAL:N	2.33	0.60
1:E:553:ILE:O	1:E:556:VAL:HG22	2.01	0.60
1:F:553:ILE:O	1:F:556:VAL:HG22	2.01	0.60
1:A:553:ILE:O	1:A:556:VAL:HG22	2.01	0.60
1:B:130:THR:OG1	1:B:132:ASN:ND2	2.33	0.60
1:B:484:VAL:HG11	1:B:551:ALA:HB2	1.83	0.60
1:D:553:ILE:O	1:D:556:VAL:HG22	2.01	0.60
1:E:819:VAL:O	1:E:861:TYR:OH	2.18	0.60
1:F:6:LEU:H	1:F:6:LEU:HD22	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:612:ASP:HB3	1:G:617:ALA:H	1.66	0.60
1:B:819:VAL:O	1:B:861:TYR:OH	2.18	0.60
1:D:6:LEU:H	1:D:6:LEU:HD22	1.66	0.60
1:D:723:SER:OG	1:D:840:CYS:SG	2.42	0.60
1:E:274:LEU:HD21	1:E:278:ASP:HB3	1.83	0.60
1:E:815:GLN:HB3	1:E:861:TYR:CE2	2.35	0.60
1:F:523:VAL:HA	1:F:526:LYS:NZ	2.15	0.60
1:D:746:ASN:HA	1:D:749:ARG:HD2	1.83	0.60
1:E:746:ASN:HA	1:E:749:ARG:HD2	1.84	0.60
1:F:274:LEU:HD21	1:F:278:ASP:HB3	1.83	0.60
1:A:274:LEU:HD21	1:A:278:ASP:HB3	1.83	0.60
1:A:443:LYS:HE2	1:B:392:THR:O	2.00	0.60
1:C:6:LEU:H	1:C:6:LEU:HD22	1.66	0.60
1:C:274:LEU:HD21	1:C:278:ASP:HB3	1.83	0.60
1:C:411:ASN:OD1	1:C:412:PHE:N	2.35	0.60
1:C:634:ASP:OD1	1:C:635:ALA:N	2.34	0.60
1:D:718:LEU:HD21	1:D:839:GLN:HE22	1.66	0.60
1:E:6:LEU:HD22	1:E:6:LEU:H	1.66	0.60
1:E:197:GLY:HA2	1:E:200:LYS:HE2	1.83	0.60
1:F:484:VAL:HG11	1:F:551:ALA:HB2	1.83	0.60
1:A:357:ALA:O	1:A:361:VAL:HG12	2.02	0.60
1:A:753:ASN:HD22	1:A:846:ARG:NH1	1.99	0.60
1:C:746:ASN:HA	1:C:749:ARG:HD2	1.83	0.60
1:E:274:LEU:HD11	1:E:278:ASP:HB2	1.83	0.60
1:E:484:VAL:HG11	1:E:551:ALA:HB2	1.83	0.60
1:G:680:MET:HG3	1:G:701:LYS:NZ	2.17	0.60
1:H:304:ILE:HA	1:H:307:MET:HG2	1.83	0.60
1:A:746:ASN:HA	1:A:749:ARG:HD2	1.83	0.60
1:C:357:ALA:O	1:C:361:VAL:HG12	2.02	0.60
1:C:484:VAL:HG11	1:C:551:ALA:HB2	1.82	0.60
1:D:274:LEU:HD21	1:D:278:ASP:HB3	1.84	0.60
1:D:634:ASP:OD1	1:D:635:ALA:N	2.34	0.60
1:E:4:THR:OG1	1:E:172:GLN:NE2	2.35	0.60
1:F:274:LEU:HD11	1:F:278:ASP:HB2	1.83	0.60
1:F:411:ASN:OD1	1:F:412:PHE:N	2.35	0.60
1:F:746:ASN:HA	1:F:749:ARG:HD2	1.83	0.60
1:A:612:ASP:OD1	1:A:613:ASP:N	2.34	0.60
1:B:634:ASP:OD1	1:B:635:ALA:N	2.34	0.60
1:D:574:ASP:N	1:D:577:LYS:HZ1	1.99	0.60
1:F:197:GLY:HA2	1:F:200:LYS:HE2	1.83	0.60
1:F:841:THR:N	1:F:842:GLY:HA3	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:411:ASN:OD1	1:A:412:PHE:N	2.35	0.60
1:B:411:ASN:OD1	1:B:412:PHE:N	2.35	0.60
1:B:753:ASN:HD22	1:B:846:ARG:NH1	1.99	0.60
1:D:4:THR:OG1	1:D:172:GLN:NE2	2.35	0.60
1:D:411:ASN:OD1	1:D:412:PHE:N	2.35	0.60
1:E:324:LEU:HB3	1:E:345:PHE:CE1	2.37	0.60
1:E:357:ALA:O	1:E:361:VAL:HG12	2.02	0.60
1:E:634:ASP:OD1	1:E:635:ALA:N	2.34	0.60
1:E:753:ASN:HD22	1:E:846:ARG:NH1	1.99	0.60
1:E:841:THR:N	1:E:842:GLY:HA3	2.15	0.60
1:F:4:THR:OG1	1:F:172:GLN:NE2	2.35	0.60
1:F:322:GLU:O	1:F:324:LEU:N	2.35	0.60
1:A:124:SER:O	1:A:127:SER:OG	2.18	0.60
1:A:324:LEU:HB3	1:A:345:PHE:CE1	2.37	0.60
1:A:634:ASP:OD1	1:A:635:ALA:N	2.34	0.60
1:C:324:LEU:HB3	1:C:345:PHE:CE1	2.37	0.60
1:B:553:ILE:O	1:B:556:VAL:HG22	2.01	0.59
1:C:322:GLU:O	1:C:324:LEU:N	2.35	0.59
1:E:612:ASP:OD1	1:E:613:ASP:N	2.34	0.59
1:E:769:GLN:H	1:E:772:ARG:NH2	2.00	0.59
1:G:530:ALA:O	1:G:533:SER:OG	2.16	0.59
1:G:576:ARG:CZ	1:G:578:ARG:HH21	2.15	0.59
1:G:833:VAL:HG12	1:G:850:ILE:HD13	1.83	0.59
1:H:337:LYS:HE3	1:H:342:LEU:HA	1.83	0.59
1:A:4:THR:OG1	1:A:172:GLN:NE2	2.35	0.59
1:C:718:LEU:HD21	1:C:839:GLN:HE22	1.66	0.59
1:E:181:LEU:HA	1:E:184:HIS:HB2	1.85	0.59
1:B:746:ASN:HA	1:B:749:ARG:HD2	1.84	0.59
1:F:324:LEU:HB3	1:F:345:PHE:CE1	2.37	0.59
1:G:680:MET:HG3	1:G:701:LYS:HZ1	1.67	0.59
1:H:222:ASP:OD2	1:H:382:ARG:NH1	2.34	0.59
1:A:197:GLY:HA2	1:A:200:LYS:HE2	1.83	0.59
1:B:357:ALA:O	1:B:361:VAL:HG12	2.02	0.59
1:C:664:VAL:HA	1:C:767:ARG:HD2	1.84	0.59
1:C:769:GLN:H	1:C:772:ARG:NH2	2.00	0.59
1:F:664:VAL:HA	1:F:767:ARG:HD2	1.84	0.59
1:F:769:GLN:H	1:F:772:ARG:NH2	2.00	0.59
1:A:548:MET:O	1:A:551:ALA:HB3	2.03	0.59
1:A:792:GLN:HG2	1:A:796:ARG:HE	1.68	0.59
1:B:769:GLN:H	1:B:772:ARG:NH2	2.00	0.59
1:F:453:LEU:H	1:G:464:ARG:NH1	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:274:LEU:HD11	1:A:278:ASP:HB2	1.83	0.59
1:B:274:LEU:HD21	1:B:278:ASP:HB3	1.83	0.59
1:B:324:LEU:HB3	1:B:345:PHE:CE1	2.37	0.59
1:D:792:GLN:HG2	1:D:796:ARG:HE	1.68	0.59
1:G:465:ARG:HD2	1:G:635:ALA:HB3	1.85	0.59
1:H:143:LYS:HE3	1:H:172:GLN:N	2.17	0.59
1:A:487:ARG:O	1:A:491:ASN:HB2	2.03	0.59
1:A:718:LEU:HD21	1:A:839:GLN:HE22	1.66	0.59
1:B:454:TRP:HH2	1:C:462:TYR:CE1	2.21	0.59
1:B:523:VAL:HA	1:B:526:LYS:HZ3	1.68	0.59
1:B:548:MET:O	1:B:551:ALA:HB3	2.03	0.59
1:C:255:VAL:HG22	1:C:256:SER:H	1.68	0.59
1:C:264:GLU:O	1:C:268:THR:N	2.35	0.59
1:D:664:VAL:HA	1:D:767:ARG:HD2	1.84	0.59
1:E:255:VAL:HG22	1:E:256:SER:H	1.68	0.59
1:F:792:GLN:HG2	1:F:796:ARG:HE	1.68	0.59
1:F:819:VAL:O	1:F:861:TYR:OH	2.18	0.59
1:G:849:LEU:HA	1:H:63:GLU:HG2	1.85	0.59
1:A:181:LEU:HA	1:A:184:HIS:HB2	1.85	0.59
1:B:225:ALA:HB2	1:B:374:THR:HA	1.85	0.59
1:C:553:ILE:O	1:C:556:VAL:HG22	2.01	0.59
1:D:753:ASN:HD22	1:D:846:ARG:NH1	1.99	0.59
1:E:411:ASN:OD1	1:E:412:PHE:N	2.35	0.59
1:B:555:TRP:HE1	1:B:589:ALA:HB3	1.68	0.59
1:C:548:MET:O	1:C:551:ALA:HB3	2.03	0.59
1:C:555:TRP:HE1	1:C:589:ALA:HB3	1.68	0.59
1:C:792:GLN:HG2	1:C:796:ARG:HE	1.68	0.59
1:D:197:GLY:HA2	1:D:200:LYS:HE2	1.83	0.59
1:D:357:ALA:O	1:D:361:VAL:HG12	2.02	0.59
1:D:769:GLN:H	1:D:772:ARG:NH2	2.00	0.59
1:E:225:ALA:HB2	1:E:374:THR:HA	1.85	0.59
1:F:555:TRP:HE1	1:F:589:ALA:HB3	1.68	0.59
1:A:278:ASP:OD1	1:A:281:LYS:HD3	2.03	0.59
1:B:274:LEU:HD11	1:B:278:ASP:HB2	1.83	0.59
1:B:278:ASP:OD1	1:B:281:LYS:HD3	2.03	0.59
1:B:792:GLN:HG2	1:B:796:ARG:HE	1.67	0.59
1:E:480:ARG:NH2	1:E:534:PHE:O	2.36	0.59
1:E:555:TRP:HE1	1:E:589:ALA:HB3	1.68	0.59
1:F:548:MET:O	1:F:551:ALA:HB3	2.03	0.59
1:G:664:VAL:H	1:G:843:ALA:HB1	1.67	0.59
1:A:221:ILE:HG13	1:A:373:TYR:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:769:GLN:H	1:A:772:ARG:NH2	2.00	0.58
1:B:487:ARG:O	1:B:491:ASN:HB2	2.03	0.58
1:C:197:GLY:HA2	1:C:200:LYS:HE2	1.83	0.58
1:C:221:ILE:HG13	1:C:373:TYR:HB2	1.85	0.58
1:E:548:MET:O	1:E:551:ALA:HB3	2.03	0.58
1:F:357:ALA:O	1:F:361:VAL:HG12	2.02	0.58
1:A:32:ASP:OD1	1:A:33:LYS:N	2.36	0.58
1:A:480:ARG:NH2	1:A:534:PHE:O	2.36	0.58
1:C:4:THR:OG1	1:C:172:GLN:NE2	2.35	0.58
1:D:32:ASP:OD1	1:D:33:LYS:N	2.36	0.58
1:E:221:ILE:HG13	1:E:373:TYR:HB2	1.85	0.58
1:E:278:ASP:OD1	1:E:281:LYS:HD3	2.03	0.58
1:F:221:ILE:HG13	1:F:373:TYR:HB2	1.85	0.58
1:F:264:GLU:O	1:F:268:THR:N	2.35	0.58
1:A:821:GLU:HB3	1:A:861:TYR:CZ	2.39	0.58
1:B:821:GLU:HB3	1:B:861:TYR:CZ	2.39	0.58
1:C:225:ALA:HB2	1:C:374:THR:HA	1.85	0.58
1:D:124:SER:O	1:D:127:SER:OG	2.18	0.58
1:D:221:ILE:HG13	1:D:373:TYR:HB2	1.86	0.58
1:D:555:TRP:HE1	1:D:589:ALA:HB3	1.68	0.58
1:F:225:ALA:HB2	1:F:374:THR:HA	1.85	0.58
1:F:278:ASP:OD1	1:F:281:LYS:HD3	2.03	0.58
1:F:480:ARG:NH2	1:F:534:PHE:O	2.36	0.58
1:H:224:THR:HG23	1:H:375:ASN:H	1.69	0.58
1:A:781:LEU:HB3	1:A:783:LEU:HG	1.86	0.58
1:B:197:GLY:HA2	1:B:200:LYS:HE2	1.83	0.58
1:B:664:VAL:HA	1:B:767:ARG:HD2	1.84	0.58
1:B:814:ILE:HB	1:B:861:TYR:CD1	2.39	0.58
1:D:181:LEU:HA	1:D:184:HIS:HB2	1.85	0.58
1:D:322:GLU:O	1:D:324:LEU:N	2.35	0.58
1:D:324:LEU:HB3	1:D:345:PHE:CE1	2.37	0.58
1:D:814:ILE:HB	1:D:861:TYR:CD1	2.38	0.58
1:E:487:ARG:O	1:E:491:ASN:HB2	2.03	0.58
1:E:814:ILE:HB	1:E:861:TYR:CD1	2.39	0.58
1:F:32:ASP:OD1	1:F:33:LYS:N	2.36	0.58
1:F:461:ILE:HD11	1:G:455:HIS:HB3	1.85	0.58
1:B:4:THR:OG1	1:B:172:GLN:NE2	2.35	0.58
1:D:480:ARG:NH2	1:D:534:PHE:O	2.36	0.58
1:E:821:GLU:HB3	1:E:861:TYR:CZ	2.39	0.58
1:F:718:LEU:HD11	1:F:839:GLN:OE1	2.04	0.58
1:G:762:PHE:CE2	1:H:406:ILE:HD12	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:814:ILE:HB	1:G:861:TYR:HD1	1.68	0.58
1:H:274:LEU:HD11	1:H:278:ASP:HB3	1.85	0.58
1:A:6:LEU:HD13	1:A:9:LEU:HD23	1.86	0.58
1:C:480:ARG:NH2	1:C:534:PHE:O	2.36	0.58
1:C:487:ARG:O	1:C:491:ASN:HB2	2.03	0.58
1:D:278:ASP:OD1	1:D:281:LYS:HD3	2.03	0.58
1:E:32:ASP:OD1	1:E:33:LYS:N	2.36	0.58
1:F:181:LEU:HA	1:F:184:HIS:HB2	1.85	0.58
1:F:487:ARG:O	1:F:491:ASN:HB2	2.03	0.58
1:F:781:LEU:HB3	1:F:783:LEU:HG	1.86	0.58
1:F:821:GLU:HB3	1:F:861:TYR:CZ	2.39	0.58
1:H:92:ASP:O	1:H:96:GLY:N	2.37	0.58
1:H:101:ALA:HB1	1:H:440:ILE:HG21	1.86	0.58
1:A:255:VAL:HG22	1:A:256:SER:H	1.68	0.58
1:B:124:SER:O	1:B:127:SER:OG	2.18	0.58
1:B:480:ARG:NH2	1:B:534:PHE:O	2.36	0.58
1:E:223:GLU:OE2	1:E:382:ARG:NH2	2.30	0.58
1:G:661:TYR:O	1:G:773:ARG:NH2	2.33	0.58
1:G:828:VAL:HG22	1:G:854:LYS:HG2	1.84	0.58
1:A:664:VAL:HA	1:A:767:ARG:HD2	1.84	0.58
1:B:6:LEU:HD13	1:B:9:LEU:HD23	1.85	0.58
1:B:255:VAL:HG22	1:B:256:SER:H	1.68	0.58
1:D:487:ARG:O	1:D:491:ASN:HB2	2.03	0.58
1:D:548:MET:O	1:D:551:ALA:HB3	2.03	0.58
1:D:718:LEU:HD11	1:D:839:GLN:OE1	2.04	0.58
1:D:821:GLU:HB3	1:D:861:TYR:CZ	2.39	0.58
1:F:612:ASP:OD1	1:F:613:ASP:N	2.34	0.58
1:A:225:ALA:HB2	1:A:374:THR:HA	1.85	0.58
1:A:718:LEU:HD11	1:A:839:GLN:OE1	2.04	0.58
1:C:6:LEU:HD13	1:C:9:LEU:HD23	1.85	0.58
1:C:32:ASP:OD1	1:C:33:LYS:N	2.36	0.58
1:C:181:LEU:HA	1:C:184:HIS:HB2	1.85	0.58
1:C:278:ASP:OD1	1:C:281:LYS:HD3	2.03	0.58
1:C:821:GLU:HB3	1:C:861:TYR:CZ	2.39	0.58
1:G:652:ASP:OD1	1:G:656:HIS:NE2	2.37	0.58
1:D:324:LEU:HB3	1:D:345:PHE:HE1	1.69	0.58
1:E:503:LYS:HA	1:E:506:GLY:HA2	1.86	0.58
1:E:610:VAL:HG13	1:E:619:TYR:HB2	1.86	0.58
1:E:781:LEU:HB3	1:E:783:LEU:HG	1.86	0.58
1:H:282:VAL:O	1:H:286:LEU:HG	2.04	0.58
1:A:814:ILE:HB	1:A:861:TYR:CD1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:264:GLU:O	1:B:268:THR:N	2.35	0.57
1:C:503:LYS:HA	1:C:506:GLY:HA2	1.86	0.57
1:C:781:LEU:HB3	1:C:783:LEU:HG	1.86	0.57
1:D:242:ASN:HB2	1:D:298:GLY:HA2	1.86	0.57
1:D:264:GLU:O	1:D:268:THR:N	2.35	0.57
1:D:781:LEU:HB3	1:D:783:LEU:HG	1.86	0.57
1:E:264:GLU:O	1:E:268:THR:N	2.35	0.57
1:G:634:ASP:OD1	1:G:635:ALA:N	2.33	0.57
1:A:242:ASN:HB2	1:A:298:GLY:HA2	1.86	0.57
1:B:322:GLU:O	1:B:324:LEU:N	2.35	0.57
1:B:723:SER:HB3	1:B:839:GLN:HE21	1.70	0.57
1:E:324:LEU:HB3	1:E:345:PHE:HE1	1.69	0.57
1:E:723:SER:HB3	1:E:839:GLN:HE21	1.70	0.57
1:E:792:GLN:HG2	1:E:796:ARG:HE	1.68	0.57
1:A:610:VAL:HG13	1:A:619:TYR:HB2	1.86	0.57
1:B:32:ASP:OD1	1:B:33:LYS:N	2.36	0.57
1:B:78:ASN:HD22	1:B:81:LYS:HZ1	1.53	0.57
1:C:814:ILE:HB	1:C:861:TYR:CD1	2.39	0.57
1:D:723:SER:HB3	1:D:839:GLN:HE21	1.69	0.57
1:B:181:LEU:HA	1:B:184:HIS:HB2	1.84	0.57
1:B:221:ILE:HG13	1:B:373:TYR:HB2	1.85	0.57
1:B:503:LYS:HA	1:B:506:GLY:HA2	1.86	0.57
1:C:91:GLU:OE1	1:C:91:GLU:N	2.38	0.57
1:E:124:SER:O	1:E:127:SER:OG	2.18	0.57
1:E:242:ASN:HB2	1:E:298:GLY:HA2	1.86	0.57
1:E:718:LEU:HD11	1:E:839:GLN:OE1	2.04	0.57
1:F:610:VAL:HG13	1:F:619:TYR:HB2	1.86	0.57
1:H:65:LYS:HA	1:H:68:LYS:HE3	1.85	0.57
1:A:322:GLU:O	1:A:324:LEU:N	2.35	0.57
1:A:503:LYS:HA	1:A:506:GLY:HA2	1.86	0.57
1:B:718:LEU:HD11	1:B:839:GLN:OE1	2.04	0.57
1:C:610:VAL:HG13	1:C:619:TYR:HB2	1.86	0.57
1:D:225:ALA:HB2	1:D:374:THR:HA	1.85	0.57
1:D:503:LYS:HA	1:D:506:GLY:HA2	1.86	0.57
1:D:612:ASP:OD1	1:D:613:ASP:N	2.34	0.57
1:E:380:ALA:HA	1:E:383:ILE:HD12	1.87	0.57
1:F:403:HIS:HB3	1:F:409:LEU:HD11	1.87	0.57
1:F:503:LYS:HA	1:F:506:GLY:HA2	1.86	0.57
1:F:814:ILE:HB	1:F:861:TYR:CD1	2.39	0.57
1:A:12:LEU:HB3	1:A:15:ARG:NH2	2.20	0.57
1:A:324:LEU:HB3	1:A:345:PHE:HE1	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:740:ASN:OD1	1:A:741:ALA:N	2.38	0.57
1:B:12:LEU:HB3	1:B:15:ARG:NH2	2.20	0.57
1:C:558:TYR:CE2	1:C:588:LYS:HE3	2.40	0.57
1:D:255:VAL:HG22	1:D:256:SER:H	1.68	0.57
1:E:322:GLU:O	1:E:324:LEU:N	2.35	0.57
1:E:403:HIS:HB3	1:E:409:LEU:HD11	1.87	0.57
1:F:255:VAL:HG22	1:F:256:SER:H	1.68	0.57
1:A:376:GLN:HG3	1:B:448:ARG:HH21	1.69	0.57
1:A:380:ALA:HA	1:A:383:ILE:HD12	1.87	0.57
1:A:555:TRP:HE1	1:A:589:ALA:HB3	1.68	0.57
1:C:324:LEU:HB3	1:C:345:PHE:HE1	1.69	0.57
1:D:6:LEU:HD13	1:D:9:LEU:HD23	1.85	0.57
1:D:91:GLU:OE1	1:D:91:GLU:N	2.38	0.57
1:E:12:LEU:HB3	1:E:15:ARG:NH2	2.20	0.57
1:E:664:VAL:HA	1:E:767:ARG:HD2	1.85	0.57
1:F:740:ASN:OD1	1:F:741:ALA:N	2.38	0.57
1:G:687:SER:O	1:G:691:ASN:N	2.30	0.57
1:A:91:GLU:OE1	1:A:91:GLU:N	2.38	0.57
1:B:453:LEU:HD11	1:C:463:PHE:HE2	1.69	0.57
1:C:12:LEU:HB3	1:C:15:ARG:NH2	2.20	0.57
1:C:718:LEU:HD11	1:C:839:GLN:OE1	2.04	0.57
1:D:28:GLN:HB2	1:D:86:CYS:HB2	1.87	0.57
1:D:740:ASN:OD1	1:D:741:ALA:N	2.38	0.57
1:E:723:SER:O	1:E:726:HIS:HB2	2.05	0.57
1:G:483:LEU:HD11	1:G:542:LEU:HD23	1.87	0.57
1:B:610:VAL:HG13	1:B:619:TYR:HB2	1.87	0.57
1:B:781:LEU:HB3	1:B:783:LEU:HG	1.86	0.57
1:C:284:LYS:HG3	1:C:285:VAL:HG12	1.87	0.57
1:E:740:ASN:OD1	1:E:741:ALA:N	2.38	0.57
1:G:678:LEU:O	1:G:681:LEU:HG	2.05	0.57
1:A:566:GLU:OE2	1:B:36:ARG:NH2	2.37	0.57
1:B:284:LYS:HG3	1:B:285:VAL:HG12	1.87	0.57
1:D:12:LEU:HB3	1:D:15:ARG:NH2	2.20	0.57
1:D:403:HIS:HB3	1:D:409:LEU:HD11	1.87	0.57
1:D:558:TYR:CE2	1:D:588:LYS:HE3	2.40	0.57
1:F:91:GLU:OE1	1:F:91:GLU:N	2.38	0.57
1:F:380:ALA:HA	1:F:383:ILE:HD12	1.87	0.57
1:F:687:SER:O	1:F:691:ASN:N	2.32	0.57
1:A:723:SER:O	1:A:726:HIS:HB2	2.05	0.56
1:B:91:GLU:N	1:B:91:GLU:OE1	2.38	0.56
1:B:283:ARG:HB3	1:B:332:GLU:OE1	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:558:TYR:CE2	1:B:588:LYS:HE3	2.40	0.56
1:E:91:GLU:N	1:E:91:GLU:OE1	2.38	0.56
1:F:284:LYS:HG3	1:F:285:VAL:H	1.70	0.56
1:B:284:LYS:HG3	1:B:285:VAL:H	1.70	0.56
1:C:31:VAL:HA	1:C:34:ILE:HD12	1.87	0.56
1:C:380:ALA:HA	1:C:383:ILE:HD12	1.87	0.56
1:D:381:ASP:OD1	1:D:382:ARG:N	2.38	0.56
1:D:723:SER:O	1:D:726:HIS:HB2	2.05	0.56
1:E:284:LYS:HG3	1:E:285:VAL:H	1.70	0.56
1:F:31:VAL:HA	1:F:34:ILE:HD12	1.87	0.56
1:G:654:VAL:HG22	1:G:681:LEU:HD22	1.87	0.56
1:G:766:ASP:OD2	1:G:767:ARG:NH1	2.38	0.56
1:G:774:TYR:HB2	1:G:794:ILE:HD12	1.86	0.56
1:H:6:LEU:HA	1:H:9:LEU:HB3	1.87	0.56
1:H:396:LEU:HB3	1:H:399:ILE:HB	1.86	0.56
1:A:283:ARG:HB3	1:A:332:GLU:OE1	2.05	0.56
1:A:284:LYS:HG3	1:A:285:VAL:H	1.70	0.56
1:B:28:GLN:HB2	1:B:86:CYS:HB2	1.87	0.56
1:B:242:ASN:HB2	1:B:298:GLY:HA2	1.86	0.56
1:B:376:GLN:NE2	1:B:377:ASP:OD2	2.38	0.56
1:D:283:ARG:HB3	1:D:332:GLU:OE1	2.05	0.56
1:E:6:LEU:HD13	1:E:9:LEU:HD23	1.86	0.56
1:E:558:TYR:CE2	1:E:588:LYS:HE3	2.40	0.56
1:F:6:LEU:HD13	1:F:9:LEU:HD23	1.85	0.56
1:F:558:TYR:CE2	1:F:588:LYS:HE3	2.40	0.56
1:G:651:TYR:OH	1:G:805:LYS:HA	2.04	0.56
1:G:664:VAL:O	1:G:767:ARG:NH1	2.38	0.56
1:G:758:LYS:HZ1	1:G:846:ARG:HH11	1.53	0.56
1:H:33:LYS:NZ	1:H:160:ALA:O	2.27	0.56
1:H:269:HIS:CG	1:H:270:LYS:H	2.22	0.56
1:B:31:VAL:HA	1:B:34:ILE:HD12	1.87	0.56
1:B:324:LEU:HB3	1:B:345:PHE:HE1	1.69	0.56
1:C:283:ARG:HA	1:C:286:LEU:HB2	1.88	0.56
1:D:380:ALA:HA	1:D:383:ILE:HD12	1.86	0.56
1:E:283:ARG:HB3	1:E:332:GLU:OE1	2.05	0.56
1:F:12:LEU:HB3	1:F:15:ARG:NH2	2.20	0.56
1:F:723:SER:O	1:F:726:HIS:HB2	2.05	0.56
1:G:483:LEU:O	1:G:512:PHE:N	2.38	0.56
1:A:723:SER:HB3	1:A:839:GLN:HE21	1.70	0.56
1:C:381:ASP:OD1	1:C:382:ARG:N	2.38	0.56
1:E:28:GLN:HB2	1:E:86:CYS:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:242:ASN:HB2	1:F:298:GLY:HA2	1.86	0.56
1:F:453:LEU:H	1:G:464:ARG:HH12	1.53	0.56
1:F:661:TYR:CE2	1:F:773:ARG:HB3	2.41	0.56
1:H:33:LYS:HA	1:H:36:ARG:HE	1.70	0.56
1:A:28:GLN:HB2	1:A:86:CYS:HB2	1.87	0.56
1:A:283:ARG:HA	1:A:286:LEU:HB2	1.88	0.56
1:A:403:HIS:HB3	1:A:409:LEU:HD11	1.87	0.56
1:A:583:PRO:C	1:A:585:MET:HE3	2.26	0.56
1:B:740:ASN:OD1	1:B:741:ALA:N	2.38	0.56
1:C:403:HIS:HB3	1:C:409:LEU:HD11	1.87	0.56
1:C:723:SER:HB3	1:C:839:GLN:HE21	1.70	0.56
1:C:723:SER:O	1:C:726:HIS:HB2	2.05	0.56
1:C:740:ASN:OD1	1:C:741:ALA:N	2.38	0.56
1:F:324:LEU:HB3	1:F:345:PHE:HE1	1.69	0.56
1:A:74:GLU:HG2	1:B:570:MET:HE1	1.87	0.56
1:A:284:LYS:HG3	1:A:285:VAL:HG12	1.87	0.56
1:A:558:TYR:CE2	1:A:588:LYS:HE3	2.40	0.56
1:A:661:TYR:CE2	1:A:773:ARG:HB3	2.41	0.56
1:A:723:SER:OG	1:A:840:CYS:SG	2.43	0.56
1:B:380:ALA:HA	1:B:383:ILE:HD12	1.87	0.56
1:B:661:TYR:CE2	1:B:773:ARG:HB3	2.41	0.56
1:C:724:MET:O	1:C:728:ILE:HG12	2.06	0.56
1:D:283:ARG:HA	1:D:286:LEU:HB2	1.88	0.56
1:D:284:LYS:HG3	1:D:285:VAL:H	1.70	0.56
1:F:583:PRO:C	1:F:585:MET:HE3	2.26	0.56
1:G:788:ASP:OD1	1:G:792:GLN:NE2	2.38	0.56
1:H:71:PHE:HE2	1:H:416:PRO:HG3	1.71	0.56
1:A:264:GLU:O	1:A:268:THR:N	2.35	0.56
1:B:612:ASP:OD1	1:B:613:ASP:N	2.34	0.56
1:D:376:GLN:NE2	1:D:377:ASP:OD2	2.38	0.56
1:D:583:PRO:C	1:D:585:MET:HE3	2.25	0.56
1:E:31:VAL:HA	1:E:34:ILE:HD12	1.87	0.56
1:E:283:ARG:HA	1:E:286:LEU:HB2	1.88	0.56
1:E:723:SER:OG	1:E:840:CYS:SG	2.42	0.56
1:E:859:ALA:O	1:E:864:LYS:N	2.37	0.56
1:F:283:ARG:HA	1:F:286:LEU:HB2	1.88	0.56
1:B:283:ARG:HA	1:B:286:LEU:HB2	1.88	0.56
1:B:403:HIS:HB3	1:B:409:LEU:HD11	1.87	0.56
1:B:723:SER:O	1:B:726:HIS:HB2	2.05	0.56
1:C:376:GLN:NE2	1:C:377:ASP:OD2	2.38	0.56
1:F:28:GLN:HB2	1:F:86:CYS:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:376:GLN:NE2	1:F:377:ASP:OD2	2.38	0.56
1:G:664:VAL:HG22	1:H:406:ILE:HD11	1.88	0.56
1:G:672:GLY:O	1:G:675:LEU:HG	2.06	0.56
1:H:354:VAL:HG21	1:H:385:TYR:HE2	1.69	0.56
1:A:376:GLN:NE2	1:A:377:ASP:OD2	2.38	0.56
1:A:381:ASP:OD1	1:A:382:ARG:N	2.38	0.56
1:A:762:PHE:HD2	1:B:406:ILE:CG2	2.19	0.56
1:A:523:VAL:HA	1:A:526:LYS:HZ3	1.69	0.55
1:C:583:PRO:C	1:C:585:MET:HE3	2.26	0.55
1:C:798:LEU:HA	1:C:801:LEU:HG	1.89	0.55
1:E:687:SER:O	1:E:691:ASN:N	2.32	0.55
1:F:284:LYS:HG3	1:F:285:VAL:HG12	1.87	0.55
1:C:242:ASN:HB2	1:C:298:GLY:HA2	1.86	0.55
1:D:661:TYR:CE2	1:D:773:ARG:HB3	2.41	0.55
1:D:724:MET:O	1:D:728:ILE:HG12	2.06	0.55
1:E:284:LYS:HG3	1:E:285:VAL:HG12	1.87	0.55
1:G:590:GLU:OE1	1:G:629:GLN:NE2	2.39	0.55
1:B:81:LYS:HB3	1:B:82:ASP:OD1	2.07	0.55
1:B:223:GLU:OE2	1:B:382:ARG:NH2	2.30	0.55
1:D:798:LEU:HA	1:D:801:LEU:HG	1.88	0.55
1:F:724:MET:O	1:F:728:ILE:HG12	2.06	0.55
1:H:229:ARG:NH1	1:H:373:TYR:CD2	2.68	0.55
1:C:338:LEU:O	1:C:338:LEU:HD23	2.07	0.55
1:E:81:LYS:HB3	1:E:82:ASP:OD1	2.07	0.55
1:F:81:LYS:HB3	1:F:82:ASP:OD1	2.07	0.55
1:G:452:MET:HE3	1:G:578:ARG:HH22	1.71	0.55
1:G:571:ARG:NH2	1:G:580:TYR:H	2.03	0.55
1:A:216:ASN:ND2	1:A:360:MET:O	2.39	0.55
1:B:723:SER:OG	1:B:840:CYS:SG	2.42	0.55
1:B:724:MET:O	1:B:728:ILE:HG12	2.06	0.55
1:C:28:GLN:HB2	1:C:86:CYS:HB2	1.87	0.55
1:C:284:LYS:HG3	1:C:285:VAL:H	1.70	0.55
1:C:661:TYR:CE2	1:C:773:ARG:HB3	2.41	0.55
1:D:81:LYS:HB3	1:D:82:ASP:OD1	2.07	0.55
1:D:610:VAL:HG13	1:D:619:TYR:HB2	1.86	0.55
1:E:338:LEU:HD23	1:E:338:LEU:O	2.07	0.55
1:E:376:GLN:NE2	1:E:377:ASP:OD2	2.38	0.55
1:E:724:MET:O	1:E:728:ILE:HG12	2.06	0.55
1:F:338:LEU:O	1:F:338:LEU:HD23	2.07	0.55
1:H:130:THR:HG21	1:H:439:LEU:HD23	1.87	0.55
1:A:81:LYS:HB3	1:A:82:ASP:OD1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:283:ARG:HB3	1:C:332:GLU:OE1	2.05	0.55
1:E:259:TYR:CZ	1:E:346:ARG:HB2	2.42	0.55
1:E:661:TYR:CE2	1:E:773:ARG:HB3	2.41	0.55
1:G:732:PHE:HB2	1:G:734:LEU:HG	1.87	0.55
1:H:108:CYS:HB3	1:H:190:ILE:HG22	1.89	0.55
1:A:259:TYR:CZ	1:A:346:ARG:HB2	2.42	0.55
1:B:338:LEU:HD23	1:B:338:LEU:O	2.07	0.55
1:C:259:TYR:CZ	1:C:346:ARG:HB2	2.42	0.55
1:D:259:TYR:CZ	1:D:346:ARG:HB2	2.42	0.55
1:D:338:LEU:O	1:D:338:LEU:HD23	2.07	0.55
1:F:203:TYR:OH	1:F:422:CYS:O	2.24	0.55
1:G:591:LEU:O	1:G:629:GLN:HG2	2.06	0.55
1:H:23:PHE:CE1	1:H:131:ARG:HA	2.42	0.55
1:D:456:LYS:O	1:D:457:LEU:HD13	2.07	0.55
1:G:775:ALA:HB2	1:G:790:THR:HG23	1.88	0.55
1:A:31:VAL:HA	1:A:34:ILE:HD12	1.87	0.55
1:A:456:LYS:O	1:A:457:LEU:HD13	2.07	0.55
1:A:829:ASP:OD1	1:A:854:LYS:NZ	2.35	0.55
1:H:235:LEU:HD22	1:H:269:HIS:ND1	2.21	0.55
1:A:444:THR:HG22	1:B:394:ARG:HG3	1.87	0.55
1:F:381:ASP:OD1	1:F:382:ARG:N	2.38	0.55
1:F:821:GLU:HB3	1:F:861:TYR:CE2	2.42	0.55
1:G:454:TRP:HE1	1:G:578:ARG:HH12	1.52	0.55
1:G:606:PRO:HB3	1:G:627:THR:HG23	1.89	0.55
1:G:828:VAL:HG11	1:G:854:LYS:HE2	1.89	0.55
1:H:56:GLU:OE2	1:H:143:LYS:N	2.36	0.55
1:H:148:ALA:HA	1:H:151:LYS:NZ	2.22	0.55
1:H:181:LEU:HA	1:H:184:HIS:HB2	1.88	0.55
1:H:394:ARG:NH2	1:H:416:PRO:O	2.40	0.55
1:B:450:GLU:OE2	1:C:465:ARG:O	2.25	0.54
1:C:81:LYS:HB3	1:C:82:ASP:OD1	2.07	0.54
1:C:124:SER:O	1:C:127:SER:OG	2.18	0.54
1:C:523:VAL:HA	1:C:526:LYS:HZ2	1.72	0.54
1:D:821:GLU:HB3	1:D:861:TYR:CE2	2.42	0.54
1:E:821:GLU:HB3	1:E:861:TYR:CE2	2.42	0.54
1:F:555:TRP:NE1	1:F:559:GLU:OE2	2.40	0.54
1:A:338:LEU:O	1:A:338:LEU:HD23	2.07	0.54
1:B:456:LYS:O	1:B:457:LEU:HD13	2.07	0.54
1:B:768:PRO:HD2	1:B:772:ARG:HH22	1.72	0.54
1:C:639:MET:HA	1:C:699:ARG:NE	2.22	0.54
1:D:216:ASN:ND2	1:D:360:MET:O	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:284:LYS:HG3	1:D:285:VAL:HG12	1.87	0.54
1:D:555:TRP:NE1	1:D:559:GLU:OE2	2.41	0.54
1:D:639:MET:HA	1:D:699:ARG:NE	2.22	0.54
1:E:639:MET:HA	1:E:699:ARG:NE	2.22	0.54
1:F:656:HIS:O	1:F:659:GLU:HG3	2.08	0.54
1:A:656:HIS:O	1:A:659:GLU:HG3	2.08	0.54
1:B:259:TYR:CZ	1:B:346:ARG:HB2	2.42	0.54
1:C:821:GLU:HB3	1:C:861:TYR:CE2	2.42	0.54
1:D:31:VAL:HA	1:D:34:ILE:HD12	1.87	0.54
1:D:461:ILE:HD11	1:E:669:TYR:CE1	2.42	0.54
1:E:62:VAL:O	1:E:66:VAL:HG23	2.08	0.54
1:A:229:ARG:HH22	1:B:764:GLN:NE2	2.05	0.54
1:A:821:GLU:HB3	1:A:861:TYR:CE2	2.42	0.54
1:C:652:ASP:O	1:C:655:THR:OG1	2.25	0.54
1:C:768:PRO:HD2	1:C:772:ARG:HH22	1.73	0.54
1:E:93:ASP:OD1	1:E:94:ASN:N	2.41	0.54
1:E:555:TRP:NE1	1:E:559:GLU:OE2	2.40	0.54
1:E:727:LYS:O	1:E:730:ALA:N	2.41	0.54
1:G:512:PHE:CE1	1:G:514:GLU:HB2	2.42	0.54
1:A:724:MET:O	1:A:728:ILE:HG12	2.06	0.54
1:B:656:HIS:O	1:B:659:GLU:HG3	2.08	0.54
1:B:821:GLU:HB3	1:B:861:TYR:CE2	2.42	0.54
1:C:727:LYS:O	1:C:730:ALA:N	2.41	0.54
1:D:656:HIS:O	1:D:659:GLU:HG3	2.08	0.54
1:E:583:PRO:C	1:E:585:MET:HE3	2.27	0.54
1:E:635:ALA:O	1:E:637:LEU:N	2.41	0.54
1:G:815:GLN:HB3	1:G:861:TYR:CZ	2.43	0.54
1:H:250:GLN:O	1:H:337:LYS:NZ	2.26	0.54
1:A:639:MET:HA	1:A:699:ARG:NE	2.22	0.54
1:B:216:ASN:ND2	1:B:360:MET:O	2.39	0.54
1:B:727:LYS:O	1:B:730:ALA:N	2.41	0.54
1:C:480:ARG:HG2	1:C:508:GLU:OE2	2.08	0.54
1:E:618:LYS:HD3	1:E:620:PRO:HG3	1.90	0.54
1:F:798:LEU:HA	1:F:801:LEU:HG	1.88	0.54
1:A:555:TRP:NE1	1:A:559:GLU:OE2	2.40	0.54
1:D:203:TYR:OH	1:D:422:CYS:O	2.24	0.54
1:E:768:PRO:HD2	1:E:772:ARG:HH22	1.72	0.54
1:F:216:ASN:ND2	1:F:360:MET:O	2.39	0.54
1:F:283:ARG:HB3	1:F:332:GLU:OE1	2.05	0.54
1:F:635:ALA:O	1:F:637:LEU:N	2.41	0.54
1:F:723:SER:HB3	1:F:839:GLN:HE21	1.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:738:LEU:HD23	1:F:738:LEU:H	1.73	0.54
1:B:635:ALA:O	1:B:637:LEU:N	2.41	0.54
1:B:639:MET:HA	1:B:699:ARG:NE	2.22	0.54
1:C:555:TRP:NE1	1:C:559:GLU:OE2	2.40	0.54
1:C:656:HIS:O	1:C:659:GLU:HG3	2.08	0.54
1:E:798:LEU:HA	1:E:801:LEU:HG	1.89	0.54
1:F:62:VAL:O	1:F:66:VAL:HG23	2.08	0.54
1:F:727:LYS:O	1:F:730:ALA:N	2.41	0.54
1:G:673:GLN:OE1	1:G:673:GLN:N	2.28	0.54
1:G:841:THR:N	1:G:842:GLY:HA3	2.23	0.54
1:H:400:PRO:HB2	1:H:402:THR:HG22	1.90	0.54
1:A:93:ASP:OD1	1:A:94:ASN:N	2.41	0.54
1:A:798:LEU:HA	1:A:801:LEU:HG	1.88	0.54
1:B:203:TYR:OH	1:B:422:CYS:O	2.24	0.54
1:C:635:ALA:O	1:C:637:LEU:N	2.41	0.54
1:E:30:GLN:HA	1:E:33:LYS:HE2	1.90	0.54
1:E:656:HIS:O	1:E:659:GLU:HG3	2.08	0.54
1:F:480:ARG:HG2	1:F:508:GLU:OE2	2.08	0.54
1:F:618:LYS:HD3	1:F:620:PRO:HG3	1.90	0.54
1:G:651:TYR:O	1:G:655:THR:HG23	2.08	0.54
1:G:788:ASP:HA	1:G:792:GLN:NE2	2.23	0.54
1:H:369:THR:HG22	1:H:394:ARG:HB2	1.90	0.54
1:A:62:VAL:O	1:A:66:VAL:HG23	2.08	0.54
1:A:443:LYS:NZ	1:B:392:THR:O	2.41	0.54
1:B:583:PRO:C	1:B:585:MET:HE3	2.28	0.54
1:C:30:GLN:HA	1:C:33:LYS:HE2	1.90	0.54
1:C:456:LYS:O	1:C:457:LEU:HD13	2.07	0.54
1:D:30:GLN:HA	1:D:33:LYS:HE2	1.90	0.54
1:D:768:PRO:HD2	1:D:772:ARG:HH22	1.72	0.54
1:E:456:LYS:O	1:E:457:LEU:HD13	2.07	0.54
1:F:30:GLN:HA	1:F:33:LYS:HE2	1.90	0.54
1:F:518:ASP:OD2	1:F:611:THR:OG1	2.18	0.54
1:H:252:ALA:O	1:H:345:PHE:N	2.36	0.54
1:A:465:ARG:HD2	1:A:635:ALA:HB3	1.91	0.53
1:A:618:LYS:HD3	1:A:620:PRO:HG3	1.90	0.53
1:B:480:ARG:HG2	1:B:508:GLU:OE2	2.08	0.53
1:B:738:LEU:HD23	1:B:738:LEU:H	1.73	0.53
1:B:798:LEU:HA	1:B:801:LEU:HG	1.89	0.53
1:C:203:TYR:OH	1:C:422:CYS:O	2.24	0.53
1:D:62:VAL:O	1:D:66:VAL:HG23	2.08	0.53
1:D:93:ASP:OD1	1:D:94:ASN:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:618:LYS:HD3	1:D:620:PRO:HG3	1.90	0.53
1:D:727:LYS:O	1:D:730:ALA:N	2.41	0.53
1:E:683:GLU:OE1	1:E:683:GLU:N	2.39	0.53
1:G:496:ASP:OD1	1:G:496:ASP:N	2.40	0.53
1:G:542:LEU:HD13	1:G:594:ILE:HB	1.88	0.53
1:G:728:ILE:HG12	1:G:831:LEU:HD21	1.90	0.53
1:A:480:ARG:HG2	1:A:508:GLU:OE2	2.08	0.53
1:A:687:SER:O	1:A:691:ASN:N	2.32	0.53
1:B:687:SER:O	1:B:691:ASN:N	2.32	0.53
1:C:618:LYS:HD3	1:C:620:PRO:HG3	1.90	0.53
1:E:27:SER:O	1:E:30:GLN:HG2	2.09	0.53
1:E:738:LEU:H	1:E:738:LEU:HD23	1.73	0.53
1:F:93:ASP:OD1	1:F:94:ASN:N	2.41	0.53
1:G:549:ASP:O	1:G:552:LYS:HB2	2.09	0.53
1:B:27:SER:O	1:B:30:GLN:HG2	2.09	0.53
1:C:62:VAL:O	1:C:66:VAL:HG23	2.08	0.53
1:C:373:TYR:CD1	1:C:398:ASN:HA	2.44	0.53
1:D:27:SER:O	1:D:30:GLN:HG2	2.09	0.53
1:F:259:TYR:CZ	1:F:346:ARG:HB2	2.42	0.53
1:G:604:VAL:HG21	1:G:711:ILE:HD13	1.90	0.53
1:G:670:SER:HA	1:G:673:GLN:NE2	2.23	0.53
1:G:727:LYS:HE3	1:G:834:GLU:O	2.07	0.53
1:G:728:ILE:HG22	1:G:734:LEU:HD12	1.90	0.53
1:H:242:ASN:HB3	1:H:340:PRO:HD3	1.90	0.53
1:H:247:ALA:HB3	1:H:417:SER:HB2	1.89	0.53
1:H:282:VAL:HA	1:H:285:VAL:HG12	1.91	0.53
1:A:41:ALA:HA	1:A:44:GLN:NE2	2.24	0.53
1:A:203:TYR:OH	1:A:422:CYS:O	2.24	0.53
1:A:727:LYS:O	1:A:730:ALA:N	2.41	0.53
1:B:30:GLN:HA	1:B:33:LYS:HE2	1.90	0.53
1:B:373:TYR:CD1	1:B:398:ASN:HA	2.44	0.53
1:B:465:ARG:HD2	1:B:635:ALA:HB3	1.91	0.53
1:B:555:TRP:NE1	1:B:559:GLU:OE2	2.40	0.53
1:D:373:TYR:CD1	1:D:398:ASN:HA	2.44	0.53
1:D:859:ALA:O	1:D:864:LYS:N	2.37	0.53
1:F:456:LYS:O	1:F:457:LEU:HD13	2.07	0.53
1:F:859:ALA:O	1:F:864:LYS:N	2.37	0.53
1:A:27:SER:O	1:A:30:GLN:HG2	2.09	0.53
1:A:373:TYR:CD1	1:A:398:ASN:HA	2.44	0.53
1:C:93:ASP:OD1	1:C:94:ASN:N	2.41	0.53
1:C:738:LEU:HD23	1:C:738:LEU:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:768:PRO:HD2	1:F:772:ARG:HH22	1.72	0.53
1:G:548:MET:O	1:G:551:ALA:HB3	2.09	0.53
1:H:101:ALA:HB1	1:H:440:ILE:CG2	2.39	0.53
1:H:358:VAL:O	1:H:361:VAL:HG22	2.09	0.53
1:A:154:LEU:HB2	1:A:167:ILE:HG13	1.91	0.53
1:A:443:LYS:CE	1:B:392:THR:O	2.56	0.53
1:B:683:GLU:OE1	1:B:683:GLU:N	2.39	0.53
1:C:83:GLU:O	1:C:85:THR:HG23	2.09	0.53
1:D:738:LEU:HD23	1:D:738:LEU:H	1.73	0.53
1:F:41:ALA:HA	1:F:44:GLN:NE2	2.24	0.53
1:F:373:TYR:CD1	1:F:398:ASN:HA	2.44	0.53
1:F:639:MET:HA	1:F:699:ARG:NE	2.22	0.53
1:F:776:GLU:O	1:F:780:HIS:CB	2.56	0.53
1:B:62:VAL:O	1:B:66:VAL:HG23	2.08	0.53
1:B:83:GLU:O	1:B:85:THR:HG23	2.09	0.53
1:B:775:ALA:HB2	1:B:790:THR:HG23	1.91	0.53
1:C:101:ALA:HB1	1:C:440:ILE:CG2	2.39	0.53
1:C:698:ALA:O	1:C:702:VAL:HG22	2.09	0.53
1:D:465:ARG:HD2	1:D:635:ALA:HB3	1.91	0.53
1:E:101:ALA:HB1	1:E:440:ILE:CG2	2.39	0.53
1:E:216:ASN:ND2	1:E:360:MET:O	2.39	0.53
1:E:348:ASP:N	1:E:352:ASP:OD2	2.37	0.53
1:D:101:ALA:HB1	1:D:440:ILE:CG2	2.39	0.53
1:D:425:TRP:C	1:D:425:TRP:HD1	2.12	0.53
1:D:661:TYR:HE2	1:D:773:ARG:HB3	1.74	0.53
1:D:775:ALA:HB2	1:D:790:THR:HG23	1.91	0.53
1:E:465:ARG:HD2	1:E:635:ALA:HB3	1.91	0.53
1:E:519:PRO:HB2	1:E:610:VAL:HA	1.91	0.53
1:F:62:VAL:O	1:F:65:LYS:HB2	2.09	0.53
1:G:718:LEU:HD13	1:G:722:HIS:HB3	1.90	0.53
1:H:227:ILE:HD11	1:H:262:VAL:HA	1.91	0.53
1:A:74:GLU:HG2	1:B:570:MET:CE	2.38	0.53
1:B:41:ALA:HA	1:B:44:GLN:NE2	2.24	0.53
1:B:579:ILE:HG22	1:B:580:TYR:CE1	2.44	0.53
1:B:618:LYS:HD3	1:B:620:PRO:HG3	1.90	0.53
1:C:759:GLN:NE2	1:C:849:LEU:HD22	2.24	0.53
1:D:3:VAL:HG11	1:D:170:ILE:HA	1.91	0.53
1:D:480:ARG:HG2	1:D:508:GLU:OE2	2.08	0.53
1:D:635:ALA:O	1:D:637:LEU:N	2.41	0.53
1:F:83:GLU:O	1:F:85:THR:HG23	2.09	0.53
1:F:154:LEU:HB2	1:F:167:ILE:HG13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:698:ALA:O	1:F:702:VAL:HG22	2.09	0.53
1:A:519:PRO:HB2	1:A:610:VAL:HA	1.91	0.53
1:A:635:ALA:O	1:A:637:LEU:N	2.41	0.53
1:A:652:ASP:O	1:A:655:THR:OG1	2.25	0.53
1:A:738:LEU:HD23	1:A:738:LEU:H	1.73	0.53
1:A:768:PRO:HD2	1:A:772:ARG:HH22	1.72	0.53
1:C:465:ARG:HD2	1:C:635:ALA:HB3	1.91	0.53
1:D:776:GLU:O	1:D:780:HIS:CB	2.57	0.53
1:E:3:VAL:HG11	1:E:170:ILE:HA	1.91	0.53
1:E:514:GLU:OE1	1:E:514:GLU:N	2.42	0.53
1:E:661:TYR:HE2	1:E:773:ARG:HB3	1.74	0.53
1:E:743:LEU:O	1:E:747:VAL:HG23	2.09	0.53
1:A:223:GLU:OE2	1:A:382:ARG:NH2	2.30	0.52
1:B:776:GLU:O	1:B:780:HIS:CB	2.56	0.52
1:C:216:ASN:ND2	1:C:360:MET:O	2.39	0.52
1:D:453:LEU:HD22	1:E:464:ARG:NH2	2.24	0.52
1:E:41:ALA:HA	1:E:44:GLN:NE2	2.24	0.52
1:E:425:TRP:C	1:E:425:TRP:HD1	2.12	0.52
1:E:579:ILE:HG22	1:E:580:TYR:CE1	2.45	0.52
1:F:78:ASN:HD22	1:F:81:LYS:HZ1	1.56	0.52
1:F:775:ALA:HB2	1:F:790:THR:HG23	1.91	0.52
1:G:452:MET:SD	1:G:453:LEU:N	2.81	0.52
1:H:170:ILE:HD11	1:H:181:LEU:HD21	1.90	0.52
1:H:229:ARG:HH22	1:H:374:THR:N	2.07	0.52
1:H:250:GLN:OE1	1:H:337:LYS:N	2.42	0.52
1:A:445:VAL:HG23	1:B:395:ILE:O	2.09	0.52
1:A:732:PHE:HB2	1:A:734:LEU:HG	1.91	0.52
1:C:3:VAL:HG11	1:C:170:ILE:HA	1.91	0.52
1:C:579:ILE:HG22	1:C:580:TYR:CE1	2.44	0.52
1:F:27:SER:O	1:F:30:GLN:HG2	2.09	0.52
1:F:743:LEU:O	1:F:747:VAL:HG23	2.09	0.52
1:G:472:LEU:HD21	1:G:501:LEU:HD13	1.91	0.52
1:G:549:ASP:OD1	1:G:550:ALA:N	2.42	0.52
1:G:569:ALA:HA	1:G:621:LEU:HD11	1.91	0.52
1:G:661:TYR:HE2	1:G:773:ARG:HB3	1.73	0.52
1:H:20:GLN:NE2	1:H:133:GLY:HA3	2.24	0.52
1:H:379:ASN:O	1:H:383:ILE:HG12	2.09	0.52
1:A:443:LYS:HZ3	1:B:394:ARG:N	2.08	0.52
1:A:641:MET:SD	1:A:645:LEU:HD23	2.50	0.52
1:A:681:LEU:HD21	1:A:685:LEU:HD22	1.92	0.52
1:A:775:ALA:HB2	1:A:790:THR:HG23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:260:ASP:OD1	1:B:260:ASP:N	2.43	0.52
1:B:661:TYR:HE2	1:B:773:ARG:HB3	1.74	0.52
1:B:732:PHE:HB2	1:B:734:LEU:HG	1.91	0.52
1:C:27:SER:O	1:C:30:GLN:HG2	2.09	0.52
1:C:514:GLU:OE1	1:C:514:GLU:N	2.43	0.52
1:D:260:ASP:OD1	1:D:260:ASP:N	2.43	0.52
1:D:591:LEU:N	1:D:629:GLN:HE22	2.08	0.52
1:D:698:ALA:O	1:D:702:VAL:HG22	2.09	0.52
1:E:62:VAL:O	1:E:65:LYS:HB2	2.09	0.52
1:E:83:GLU:O	1:E:85:THR:HG23	2.09	0.52
1:E:154:LEU:HB2	1:E:167:ILE:HG13	1.91	0.52
1:E:480:ARG:HG2	1:E:508:GLU:OE2	2.08	0.52
1:F:3:VAL:HG11	1:F:170:ILE:HA	1.91	0.52
1:F:732:PHE:HB2	1:F:734:LEU:HG	1.91	0.52
1:A:260:ASP:OD1	1:A:260:ASP:N	2.43	0.52
1:A:698:ALA:O	1:A:702:VAL:HG22	2.09	0.52
1:C:62:VAL:O	1:C:65:LYS:HB2	2.09	0.52
1:D:265:ARG:O	1:D:268:THR:OG1	2.26	0.52
1:D:519:PRO:HG3	1:D:550:ALA:HB2	1.92	0.52
1:E:591:LEU:N	1:E:629:GLN:HE22	2.08	0.52
1:F:101:ALA:HB1	1:F:440:ILE:CG2	2.39	0.52
1:F:708:ILE:HD11	1:G:668:GLU:OE1	2.10	0.52
1:G:769:GLN:HB3	1:G:772:ARG:HG3	1.91	0.52
1:H:385:TYR:O	1:H:389:LYS:HG2	2.10	0.52
1:A:30:GLN:HA	1:A:33:LYS:HE2	1.90	0.52
1:A:83:GLU:O	1:A:85:THR:HG23	2.09	0.52
1:A:101:ALA:HB1	1:A:440:ILE:CG2	2.39	0.52
1:A:519:PRO:HG3	1:A:550:ALA:HB2	1.92	0.52
1:B:41:ALA:HA	1:B:44:GLN:HE22	1.75	0.52
1:B:62:VAL:O	1:B:65:LYS:HB2	2.09	0.52
1:B:93:ASP:OD1	1:B:94:ASN:N	2.41	0.52
1:B:101:ALA:HB1	1:B:440:ILE:CG2	2.39	0.52
1:B:591:LEU:N	1:B:629:GLN:HE22	2.08	0.52
1:B:641:MET:SD	1:B:645:LEU:HD23	2.50	0.52
1:B:698:ALA:O	1:B:702:VAL:HG22	2.09	0.52
1:C:425:TRP:C	1:C:425:TRP:HD1	2.12	0.52
1:D:41:ALA:HA	1:D:44:GLN:NE2	2.23	0.52
1:D:519:PRO:HB2	1:D:610:VAL:HA	1.91	0.52
1:E:373:TYR:CD1	1:E:398:ASN:HA	2.44	0.52
1:E:641:MET:SD	1:E:645:LEU:HD23	2.50	0.52
1:E:698:ALA:O	1:E:702:VAL:HG22	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:667:ASN:ND2	1:F:669:TYR:HB2	2.25	0.52
1:G:854:LYS:O	1:G:854:LYS:HD3	2.09	0.52
1:A:62:VAL:O	1:A:65:LYS:HB2	2.09	0.52
1:A:591:LEU:N	1:A:629:GLN:HE22	2.08	0.52
1:B:453:LEU:HG	1:C:463:PHE:CE2	2.45	0.52
1:B:652:ASP:O	1:B:655:THR:OG1	2.25	0.52
1:C:732:PHE:HB2	1:C:734:LEU:HG	1.91	0.52
1:D:579:ILE:HG22	1:D:580:TYR:CE1	2.45	0.52
1:E:203:TYR:OH	1:E:422:CYS:O	2.24	0.52
1:G:636:ASN:OD1	1:G:637:LEU:N	2.42	0.52
1:B:603:GLU:OE1	1:B:603:GLU:N	2.42	0.52
1:B:681:LEU:HD21	1:B:685:LEU:HD22	1.92	0.52
1:C:41:ALA:HA	1:C:44:GLN:HE22	1.75	0.52
1:C:74:GLU:HG2	1:D:570:MET:HE1	1.91	0.52
1:C:519:PRO:HG3	1:C:550:ALA:HB2	1.92	0.52
1:C:519:PRO:HB2	1:C:610:VAL:HA	1.91	0.52
1:C:667:ASN:ND2	1:C:669:TYR:HB2	2.25	0.52
1:D:687:SER:O	1:D:691:ASN:N	2.32	0.52
1:E:776:GLU:O	1:E:780:HIS:CB	2.57	0.52
1:F:661:TYR:HE2	1:F:773:ARG:HB3	1.74	0.52
1:G:629:GLN:CG	1:G:630:MET:N	2.70	0.52
1:H:232:ALA:O	1:H:235:LEU:HG	2.09	0.52
1:B:381:ASP:OD1	1:B:382:ARG:N	2.38	0.52
1:B:514:GLU:OE1	1:B:514:GLU:N	2.42	0.52
1:B:519:PRO:HB2	1:B:610:VAL:HA	1.91	0.52
1:B:667:ASN:ND2	1:B:669:TYR:HB2	2.25	0.52
1:C:776:GLU:O	1:C:780:HIS:CB	2.57	0.52
1:D:83:GLU:O	1:D:85:THR:HG23	2.09	0.52
1:D:436:PRO:HD2	1:D:437:LYS:NZ	2.25	0.52
1:D:723:SER:HA	1:D:726:HIS:HD2	1.75	0.52
1:D:743:LEU:O	1:D:747:VAL:HG23	2.09	0.52
1:E:523:VAL:HA	1:E:526:LYS:HZ3	1.75	0.52
1:F:425:TRP:C	1:F:425:TRP:HD1	2.12	0.52
1:F:579:ILE:HG22	1:F:580:TYR:CE1	2.44	0.52
1:H:373:TYR:CD2	1:H:398:ASN:HA	2.45	0.52
1:A:425:TRP:C	1:A:425:TRP:HD1	2.12	0.52
1:A:759:GLN:NE2	1:A:849:LEU:HD22	2.24	0.52
1:B:3:VAL:HG11	1:B:170:ILE:HA	1.91	0.52
1:B:154:LEU:HB2	1:B:167:ILE:HG13	1.91	0.52
1:C:537:ASP:O	1:C:589:ALA:HA	2.10	0.52
1:D:154:LEU:HB2	1:D:167:ILE:HG13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:223:GLU:OE2	1:D:382:ARG:NH2	2.30	0.52
1:D:339:SER:O	1:D:341:THR:N	2.42	0.52
1:F:223:GLU:OE2	1:F:382:ARG:NH2	2.30	0.52
1:F:436:PRO:HD2	1:F:437:LYS:NZ	2.25	0.52
1:A:667:ASN:ND2	1:A:669:TYR:HB2	2.25	0.52
1:B:425:TRP:C	1:B:425:TRP:HD1	2.12	0.52
1:C:154:LEU:HB2	1:C:167:ILE:HG13	1.91	0.52
1:C:591:LEU:N	1:C:629:GLN:HE22	2.08	0.52
1:C:681:LEU:HD21	1:C:685:LEU:HD22	1.92	0.52
1:E:41:ALA:HA	1:E:44:GLN:HE22	1.75	0.52
1:E:775:ALA:HB2	1:E:790:THR:HG23	1.91	0.52
1:F:514:GLU:OE1	1:F:514:GLU:N	2.42	0.52
1:F:683:GLU:OE1	1:F:683:GLU:N	2.39	0.52
1:G:731:GLU:HG2	1:G:732:PHE:N	2.25	0.52
1:A:579:ILE:HG22	1:A:580:TYR:CE1	2.44	0.51
1:A:723:SER:HA	1:A:726:HIS:HD2	1.75	0.51
1:B:348:ASP:N	1:B:352:ASP:OD2	2.37	0.51
1:B:723:SER:HA	1:B:726:HIS:HD2	1.75	0.51
1:B:790:THR:O	1:B:794:ILE:HG12	2.11	0.51
1:C:775:ALA:HB2	1:C:790:THR:HG23	1.91	0.51
1:E:603:GLU:OE1	1:E:603:GLU:N	2.42	0.51
1:E:723:SER:HA	1:E:726:HIS:CD2	2.45	0.51
1:F:465:ARG:HD2	1:F:635:ALA:HB3	1.91	0.51
1:G:482:PHE:HB2	1:G:536:PRO:HG3	1.92	0.51
1:A:776:GLU:O	1:A:780:HIS:CB	2.56	0.51
1:B:743:LEU:O	1:B:747:VAL:HG23	2.09	0.51
1:C:41:ALA:HA	1:C:44:GLN:NE2	2.24	0.51
1:D:62:VAL:O	1:D:65:LYS:HB2	2.09	0.51
1:D:641:MET:SD	1:D:645:LEU:HD23	2.50	0.51
1:E:639:MET:HA	1:E:699:ARG:HE	1.75	0.51
1:H:143:LYS:HE3	1:H:172:GLN:H	1.74	0.51
1:A:518:ASP:OD2	1:A:611:THR:OG1	2.18	0.51
1:B:720:VAL:HG12	1:B:840:CYS:HB3	1.93	0.51
1:C:720:VAL:HG12	1:C:840:CYS:HB3	1.93	0.51
1:C:743:LEU:O	1:C:747:VAL:HG23	2.09	0.51
1:D:681:LEU:HD21	1:D:685:LEU:HD22	1.92	0.51
1:D:732:PHE:HB2	1:D:734:LEU:HG	1.91	0.51
1:E:537:ASP:O	1:E:589:ALA:HA	2.10	0.51
1:E:681:LEU:HD21	1:E:685:LEU:HD22	1.92	0.51
1:F:487:ARG:NH2	1:F:514:GLU:HA	2.26	0.51
1:F:720:VAL:HG12	1:F:840:CYS:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:773:ARG:HA	1:F:776:GLU:OE1	2.11	0.51
1:H:358:VAL:O	1:H:362:GLU:OE1	2.28	0.51
1:A:793:LYS:HA	1:A:796:ARG:HD2	1.93	0.51
1:C:408:ASP:N	1:C:408:ASP:OD1	2.44	0.51
1:C:661:TYR:HE2	1:C:773:ARG:HB3	1.74	0.51
1:D:228:LYS:HD3	1:D:265:ARG:NH1	2.26	0.51
1:D:639:MET:HA	1:D:699:ARG:HE	1.75	0.51
1:D:790:THR:O	1:D:794:ILE:HG12	2.11	0.51
1:F:260:ASP:N	1:F:260:ASP:OD1	2.43	0.51
1:F:790:THR:O	1:F:794:ILE:HG12	2.11	0.51
1:H:317:LYS:O	1:H:340:PRO:HB2	2.11	0.51
1:A:514:GLU:OE1	1:A:514:GLU:N	2.43	0.51
1:A:661:TYR:HE2	1:A:773:ARG:HB3	1.74	0.51
1:A:773:ARG:HA	1:A:776:GLU:OE1	2.11	0.51
1:B:436:PRO:HD2	1:B:437:LYS:NZ	2.25	0.51
1:C:228:LYS:HD3	1:C:265:ARG:NH1	2.26	0.51
1:C:436:PRO:HD2	1:C:437:LYS:NZ	2.25	0.51
1:C:487:ARG:NH2	1:C:514:GLU:HA	2.26	0.51
1:C:502:LEU:HD12	1:C:509:VAL:HG11	1.93	0.51
1:C:639:MET:HA	1:C:699:ARG:HE	1.75	0.51
1:D:502:LEU:HD12	1:D:509:VAL:HG11	1.92	0.51
1:E:260:ASP:N	1:E:260:ASP:OD1	2.43	0.51
1:F:639:MET:HA	1:F:699:ARG:HE	1.75	0.51
1:F:759:GLN:NE2	1:F:849:LEU:HD22	2.24	0.51
1:G:798:LEU:O	1:G:801:LEU:HG	2.11	0.51
1:G:850:ILE:HA	1:G:853:LEU:HD13	1.92	0.51
1:A:743:LEU:O	1:A:747:VAL:HG23	2.09	0.51
1:B:639:MET:HA	1:B:699:ARG:HE	1.75	0.51
1:B:723:SER:HA	1:B:726:HIS:CD2	2.45	0.51
1:C:641:MET:SD	1:C:645:LEU:HD23	2.50	0.51
1:C:723:SER:OG	1:C:840:CYS:SG	2.43	0.51
1:C:859:ALA:O	1:C:864:LYS:N	2.37	0.51
1:E:519:PRO:HG3	1:E:550:ALA:HB2	1.92	0.51
1:E:723:SER:HA	1:E:726:HIS:HD2	1.75	0.51
1:E:759:GLN:NE2	1:E:849:LEU:HD22	2.24	0.51
1:E:773:ARG:HA	1:E:776:GLU:OE1	2.11	0.51
1:F:124:SER:O	1:F:127:SER:OG	2.18	0.51
1:F:519:PRO:HB2	1:F:610:VAL:HA	1.91	0.51
1:F:855:GLU:OE1	1:F:855:GLU:N	2.44	0.51
1:A:603:GLU:OE1	1:A:603:GLU:N	2.41	0.51
1:A:762:PHE:HD2	1:B:406:ILE:HG23	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:720:VAL:HG12	1:D:840:CYS:HB3	1.93	0.51
1:D:723:SER:HA	1:D:726:HIS:CD2	2.45	0.51
1:E:436:PRO:HD2	1:E:437:LYS:NZ	2.25	0.51
1:E:720:VAL:HG12	1:E:840:CYS:HB3	1.93	0.51
1:E:790:THR:O	1:E:794:ILE:HG12	2.11	0.51
1:F:41:ALA:HA	1:F:44:GLN:HE22	1.75	0.51
1:F:408:ASP:N	1:F:408:ASP:OD1	2.44	0.51
1:F:519:PRO:HG3	1:F:550:ALA:HB2	1.92	0.51
1:F:591:LEU:N	1:F:629:GLN:HE22	2.08	0.51
1:G:514:GLU:OE1	1:G:514:GLU:N	2.43	0.51
1:A:487:ARG:NH2	1:A:514:GLU:HA	2.26	0.51
1:A:859:ALA:O	1:A:864:LYS:N	2.37	0.51
1:B:773:ARG:HA	1:B:776:GLU:OE1	2.11	0.51
1:B:793:LYS:HA	1:B:796:ARG:HD2	1.93	0.51
1:B:855:GLU:N	1:B:855:GLU:OE1	2.44	0.51
1:D:514:GLU:OE1	1:D:514:GLU:N	2.42	0.51
1:E:381:ASP:OD1	1:E:382:ARG:N	2.38	0.51
1:F:454:TRP:HZ3	1:G:462:TYR:CE1	2.29	0.51
1:F:641:MET:SD	1:F:645:LEU:HD23	2.50	0.51
1:G:638:VAL:HG23	1:G:641:MET:HG2	1.91	0.51
1:G:707:THR:O	1:G:711:ILE:HG12	2.10	0.51
1:H:97:THR:HA	1:H:445:VAL:O	2.11	0.51
1:A:3:VAL:HG11	1:A:170:ILE:HA	1.91	0.51
1:A:228:LYS:HD3	1:A:265:ARG:NH1	2.26	0.51
1:A:723:SER:HA	1:A:726:HIS:CD2	2.45	0.51
1:C:5:ASN:H	1:C:8:GLU:CD	2.15	0.51
1:C:105:GLY:H	1:C:132:ASN:HD21	1.59	0.51
1:C:403:HIS:NE2	1:C:416:PRO:HA	2.26	0.51
1:D:652:ASP:O	1:D:655:THR:OG1	2.25	0.51
1:D:667:ASN:ND2	1:D:669:TYR:HB2	2.25	0.51
1:D:806:VAL:HG23	1:D:812:LYS:HZ2	1.76	0.51
1:E:732:PHE:HB2	1:E:734:LEU:HG	1.91	0.51
1:F:531:MET:O	1:F:535:GLN:N	2.44	0.51
1:G:661:TYR:CE2	1:G:773:ARG:HB3	2.46	0.51
1:H:396:LEU:HD12	1:H:401:THR:HG22	1.92	0.51
1:H:411:ASN:ND2	1:H:413:ASN:OD1	2.44	0.51
1:A:720:VAL:HG12	1:A:840:CYS:HB3	1.93	0.51
1:A:855:GLU:OE1	1:A:855:GLU:N	2.44	0.51
1:B:408:ASP:OD1	1:B:408:ASP:N	2.44	0.51
1:B:453:LEU:HD11	1:C:463:PHE:CE2	2.46	0.51
1:B:519:PRO:HG3	1:B:550:ALA:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:855:GLU:OE1	1:C:855:GLU:N	2.44	0.51
1:D:523:VAL:HA	1:D:526:LYS:HZ3	1.75	0.51
1:D:537:ASP:O	1:D:589:ALA:HA	2.10	0.51
1:E:469:PRO:O	1:E:473:SER:OG	2.27	0.51
1:E:667:ASN:ND2	1:E:669:TYR:HB2	2.25	0.51
1:E:855:GLU:N	1:E:855:GLU:OE1	2.44	0.51
1:F:452:MET:HE1	1:G:467:SER:CB	2.40	0.51
1:H:236:MET:SD	1:H:237:SER:N	2.84	0.51
1:A:5:ASN:H	1:A:8:GLU:CD	2.15	0.50
1:A:41:ALA:HA	1:A:44:GLN:HE22	1.75	0.50
1:A:105:GLY:H	1:A:132:ASN:HD21	1.59	0.50
1:A:436:PRO:HD2	1:A:437:LYS:NZ	2.25	0.50
1:A:537:ASP:O	1:A:589:ALA:HA	2.10	0.50
1:A:683:GLU:OE1	1:A:683:GLU:N	2.39	0.50
1:A:785:GLN:OE1	1:A:786:PRO:HD2	2.11	0.50
1:A:790:THR:O	1:A:794:ILE:HG12	2.11	0.50
1:B:110:ILE:HD13	1:B:192:ALA:HB2	1.93	0.50
1:B:403:HIS:NE2	1:B:416:PRO:HA	2.26	0.50
1:B:537:ASP:O	1:B:589:ALA:HA	2.10	0.50
1:B:859:ALA:O	1:B:864:LYS:N	2.37	0.50
1:C:773:ARG:HA	1:C:776:GLU:OE1	2.11	0.50
1:D:392:THR:O	1:D:430:ILE:HD12	2.11	0.50
1:D:403:HIS:NE2	1:D:416:PRO:HA	2.26	0.50
1:D:408:ASP:N	1:D:408:ASP:OD1	2.44	0.50
1:C:265:ARG:O	1:C:268:THR:OG1	2.26	0.50
1:D:487:ARG:NH2	1:D:514:GLU:HA	2.26	0.50
1:E:408:ASP:OD1	1:E:408:ASP:N	2.44	0.50
1:E:610:VAL:CG1	1:E:619:TYR:HB2	2.41	0.50
1:F:537:ASP:O	1:F:589:ALA:HA	2.10	0.50
1:G:681:LEU:HB2	1:G:685:LEU:CD1	2.42	0.50
1:H:45:ALA:O	1:H:49:LEU:HD23	2.10	0.50
1:H:93:ASP:OD1	1:H:94:ASN:N	2.44	0.50
1:A:110:ILE:HD13	1:A:192:ALA:HB2	1.94	0.50
1:A:348:ASP:N	1:A:352:ASP:OD2	2.37	0.50
1:B:228:LYS:HD3	1:B:265:ARG:NH1	2.26	0.50
1:C:392:THR:O	1:C:430:ILE:HD12	2.11	0.50
1:C:723:SER:HA	1:C:726:HIS:HD2	1.75	0.50
1:C:723:SER:HA	1:C:726:HIS:CD2	2.45	0.50
1:C:790:THR:O	1:C:794:ILE:HG12	2.11	0.50
1:E:487:ARG:NH2	1:E:514:GLU:HA	2.26	0.50
1:E:793:LYS:HA	1:E:796:ARG:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:479:LYS:HG2	1:F:508:GLU:OE2	2.11	0.50
1:F:723:SER:HA	1:F:726:HIS:CD2	2.46	0.50
1:F:785:GLN:OE1	1:F:786:PRO:HD2	2.12	0.50
1:F:793:LYS:HA	1:F:796:ARG:HD2	1.93	0.50
1:G:749:ARG:HD3	1:G:866:PHE:O	2.11	0.50
1:H:111:VAL:HB	1:H:138:PRO:HA	1.93	0.50
1:A:229:ARG:NH2	1:B:764:GLN:NE2	2.60	0.50
1:A:443:LYS:NZ	1:B:394:ARG:N	2.59	0.50
1:B:479:LYS:HG2	1:B:508:GLU:OE2	2.12	0.50
1:D:5:ASN:H	1:D:8:GLU:CD	2.15	0.50
1:D:41:ALA:HA	1:D:44:GLN:HE22	1.75	0.50
1:D:773:ARG:HA	1:D:776:GLU:OE1	2.11	0.50
1:D:855:GLU:OE1	1:D:855:GLU:N	2.44	0.50
1:E:5:ASN:H	1:E:8:GLU:CD	2.15	0.50
1:E:228:LYS:HD3	1:E:265:ARG:NH1	2.26	0.50
1:A:502:LEU:HD12	1:A:509:VAL:HG11	1.93	0.50
1:B:392:THR:O	1:B:430:ILE:HD12	2.12	0.50
1:C:110:ILE:HD13	1:C:192:ALA:HB2	1.94	0.50
1:D:610:VAL:CG1	1:D:619:TYR:HB2	2.41	0.50
1:D:680:MET:SD	1:D:705:ALA:HB2	2.52	0.50
1:E:652:ASP:O	1:E:655:THR:OG1	2.25	0.50
1:F:681:LEU:HD21	1:F:685:LEU:HD22	1.92	0.50
1:G:664:VAL:HG23	1:G:767:ARG:HG3	1.93	0.50
1:A:392:THR:O	1:A:430:ILE:HD12	2.11	0.50
1:A:610:VAL:CG1	1:A:619:TYR:HB2	2.41	0.50
1:A:680:MET:SD	1:A:705:ALA:HB2	2.52	0.50
1:A:748:VAL:O	1:A:752:ALA:N	2.45	0.50
1:B:487:ARG:NH2	1:B:514:GLU:HA	2.26	0.50
1:B:502:LEU:HD12	1:B:509:VAL:HG11	1.93	0.50
1:B:651:TYR:OH	1:B:805:LYS:HA	2.12	0.50
1:C:479:LYS:HG2	1:C:508:GLU:OE2	2.12	0.50
1:C:793:LYS:HA	1:C:796:ARG:HD2	1.93	0.50
1:D:603:GLU:OE1	1:D:603:GLU:N	2.42	0.50
1:F:228:LYS:HD3	1:F:265:ARG:NH1	2.26	0.50
1:F:610:VAL:CG1	1:F:619:TYR:HB2	2.41	0.50
1:F:651:TYR:OH	1:F:805:LYS:HA	2.12	0.50
1:F:680:MET:SD	1:F:705:ALA:HB2	2.52	0.50
1:B:785:GLN:OE1	1:B:786:PRO:HD2	2.11	0.50
1:C:228:LYS:HB2	1:C:229:ARG:NH1	2.27	0.50
1:C:785:GLN:OE1	1:C:786:PRO:HD2	2.11	0.50
1:D:518:ASP:OD2	1:D:611:THR:OG1	2.18	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:651:TYR:OH	1:E:805:LYS:HA	2.12	0.50
1:E:748:VAL:O	1:E:752:ALA:N	2.45	0.50
1:F:5:ASN:H	1:F:8:GLU:CD	2.15	0.50
1:F:403:HIS:NE2	1:F:416:PRO:HA	2.26	0.50
1:F:452:MET:HE1	1:G:467:SER:HB2	1.93	0.50
1:F:723:SER:HA	1:F:726:HIS:HD2	1.75	0.50
1:G:857:LEU:O	1:G:860:SER:OG	2.24	0.50
1:B:531:MET:O	1:B:535:GLN:N	2.44	0.50
1:D:479:LYS:HG2	1:D:508:GLU:OE2	2.12	0.50
1:D:651:TYR:OH	1:D:805:LYS:HA	2.12	0.50
1:D:759:GLN:NE2	1:D:849:LEU:HD22	2.24	0.50
1:E:502:LEU:HD12	1:E:509:VAL:HG11	1.93	0.50
1:G:790:THR:O	1:G:794:ILE:HG12	2.12	0.50
1:H:372:LEU:HB2	1:H:386:PHE:CE2	2.47	0.50
1:H:406:ILE:HG22	1:H:410:TYR:CZ	2.46	0.50
1:A:281:LYS:HA	1:A:284:LYS:NZ	2.27	0.50
1:B:5:ASN:H	1:B:8:GLU:CD	2.15	0.50
1:B:98:MET:HB2	1:B:445:VAL:HG12	1.94	0.50
1:C:485:THR:O	1:C:513:PHE:HA	2.12	0.50
1:C:564:HIS:ND1	1:C:566:GLU:CD	2.57	0.50
1:C:651:TYR:OH	1:C:805:LYS:HA	2.12	0.50
1:D:110:ILE:HD13	1:D:192:ALA:HB2	1.94	0.50
1:E:392:THR:O	1:E:430:ILE:HD12	2.11	0.50
1:F:228:LYS:HB2	1:F:229:ARG:NH1	2.27	0.50
1:F:373:TYR:CE1	1:F:398:ASN:HA	2.47	0.50
1:G:636:ASN:OD1	1:G:637:LEU:HD12	2.11	0.50
1:H:3:VAL:HA	1:H:8:GLU:HG3	1.93	0.50
1:H:357:ALA:O	1:H:361:VAL:HG13	2.11	0.50
1:A:403:HIS:NE2	1:A:416:PRO:HA	2.26	0.49
1:A:479:LYS:HG2	1:A:508:GLU:OE2	2.11	0.49
1:A:639:MET:HA	1:A:699:ARG:HE	1.75	0.49
1:B:126:ILE:O	1:B:130:THR:HG23	2.12	0.49
1:B:680:MET:SD	1:B:705:ALA:HB2	2.52	0.49
1:D:373:TYR:CE1	1:D:398:ASN:HA	2.47	0.49
1:E:98:MET:HB2	1:E:445:VAL:HG12	1.94	0.49
1:E:228:LYS:HB2	1:E:229:ARG:NH1	2.27	0.49
1:F:110:ILE:HD13	1:F:192:ALA:HB2	1.94	0.49
1:F:502:LEU:HD12	1:F:509:VAL:HG11	1.93	0.49
1:F:748:VAL:O	1:F:752:ALA:N	2.45	0.49
1:G:692:GLY:H	1:G:694:LYS:HZ2	1.59	0.49
1:G:705:ALA:HA	1:G:708:ILE:HD12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:40:LEU:O	1:H:44:GLN:HG3	2.12	0.49
1:H:54:VAL:HG21	1:H:62:VAL:HG22	1.94	0.49
1:C:466:GLY:N	1:C:636:ASN:HD21	2.10	0.49
1:C:610:VAL:CG1	1:C:619:TYR:HB2	2.41	0.49
1:C:748:VAL:O	1:C:752:ALA:N	2.45	0.49
1:D:228:LYS:HB2	1:D:229:ARG:NH1	2.27	0.49
1:D:785:GLN:OE1	1:D:786:PRO:HD2	2.11	0.49
1:E:549:ASP:HA	1:E:552:LYS:HE3	1.95	0.49
1:F:392:THR:O	1:F:430:ILE:HD12	2.11	0.49
1:H:28:GLN:NE2	1:H:85:THR:OG1	2.31	0.49
1:D:793:LYS:HA	1:D:796:ARG:HD2	1.93	0.49
1:E:105:GLY:H	1:E:132:ASN:HD21	1.59	0.49
1:E:126:ILE:O	1:E:130:THR:HG23	2.12	0.49
1:E:339:SER:O	1:E:341:THR:N	2.42	0.49
1:G:540:LEU:CD1	1:G:592:VAL:HG13	2.42	0.49
1:A:466:GLY:N	1:A:636:ASN:HD21	2.10	0.49
1:B:220:VAL:HG12	1:B:253:ILE:HB	1.95	0.49
1:C:220:VAL:HG12	1:C:253:ILE:HB	1.95	0.49
1:D:220:VAL:HG12	1:D:253:ILE:HB	1.95	0.49
1:D:281:LYS:HA	1:D:284:LYS:NZ	2.27	0.49
1:D:748:VAL:O	1:D:752:ALA:N	2.45	0.49
1:E:137:SER:O	1:E:137:SER:OG	2.30	0.49
1:E:281:LYS:HA	1:E:284:LYS:NZ	2.27	0.49
1:E:466:GLY:N	1:E:636:ASN:HD21	2.10	0.49
1:E:481:ALA:HB3	1:E:509:VAL:HG12	1.95	0.49
1:E:785:GLN:OE1	1:E:786:PRO:HD2	2.11	0.49
1:F:453:LEU:N	1:G:464:ARG:HH12	2.09	0.49
1:F:466:GLY:N	1:F:636:ASN:HD21	2.10	0.49
1:A:408:ASP:N	1:A:408:ASP:OD1	2.44	0.49
1:A:531:MET:O	1:A:535:GLN:N	2.44	0.49
1:B:610:VAL:CG1	1:B:619:TYR:HB2	2.41	0.49
1:C:683:GLU:OE1	1:C:683:GLU:N	2.39	0.49
1:D:466:GLY:N	1:D:636:ASN:HD21	2.10	0.49
1:E:479:LYS:HG2	1:E:508:GLU:OE2	2.12	0.49
1:E:680:MET:SD	1:E:705:ALA:HB2	2.52	0.49
1:G:574:ASP:OD1	1:G:574:ASP:N	2.46	0.49
1:H:372:LEU:HB2	1:H:386:PHE:CZ	2.47	0.49
1:A:126:ILE:O	1:A:130:THR:HG23	2.12	0.49
1:A:469:PRO:O	1:A:473:SER:OG	2.27	0.49
1:A:651:TYR:OH	1:A:805:LYS:HA	2.12	0.49
1:A:679:LYS:NZ	1:A:780:HIS:O	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:281:LYS:HA	1:B:284:LYS:NZ	2.27	0.49
1:C:98:MET:HB2	1:C:445:VAL:HG12	1.94	0.49
1:C:110:ILE:HB	1:C:192:ALA:HA	1.95	0.49
1:C:679:LYS:NZ	1:C:780:HIS:O	2.46	0.49
1:D:110:ILE:HB	1:D:192:ALA:HA	1.94	0.49
1:E:220:VAL:HG12	1:E:253:ILE:HB	1.95	0.49
1:E:679:LYS:NZ	1:E:780:HIS:O	2.46	0.49
1:E:840:CYS:C	1:E:842:GLY:HA3	2.33	0.49
1:G:590:GLU:OE2	1:G:629:GLN:CD	2.51	0.49
1:A:110:ILE:HB	1:A:192:ALA:HA	1.95	0.49
1:A:228:LYS:HB2	1:A:229:ARG:NH1	2.27	0.49
1:A:803:GLU:CD	1:A:803:GLU:H	2.16	0.49
1:B:748:VAL:O	1:B:752:ALA:N	2.45	0.49
1:B:759:GLN:NE2	1:B:849:LEU:HD22	2.24	0.49
1:C:687:SER:O	1:C:691:ASN:N	2.32	0.49
1:D:481:ALA:HB3	1:D:509:VAL:HG12	1.95	0.49
1:D:840:CYS:C	1:D:842:GLY:HA3	2.33	0.49
1:F:126:ILE:O	1:F:130:THR:HG23	2.12	0.49
1:F:840:CYS:C	1:F:842:GLY:HA3	2.33	0.49
1:G:454:TRP:CZ3	1:G:456:LYS:HE3	2.48	0.49
1:G:684:TYR:CD2	1:G:701:LYS:HG2	2.47	0.49
1:G:684:TYR:HD2	1:G:701:LYS:HG2	1.78	0.49
1:H:229:ARG:HH12	1:H:373:TYR:HD2	1.59	0.49
1:H:326:LYS:NZ	1:H:330:ASP:OD1	2.43	0.49
1:A:481:ALA:HB3	1:A:509:VAL:HG12	1.95	0.49
1:A:576:ARG:HE	1:B:408:ASP:CG	2.16	0.49
1:B:337:LYS:HD2	1:B:341:THR:OG1	2.13	0.49
1:C:223:GLU:OE2	1:C:382:ARG:NH2	2.30	0.49
1:C:260:ASP:N	1:C:260:ASP:OD1	2.43	0.49
1:C:281:LYS:HA	1:C:284:LYS:NZ	2.27	0.49
1:C:337:LYS:HD2	1:C:341:THR:OG1	2.13	0.49
1:D:531:MET:O	1:D:535:GLN:N	2.44	0.49
1:D:679:LYS:NZ	1:D:780:HIS:O	2.46	0.49
1:E:129:LYS:HD2	1:E:129:LYS:HA	1.45	0.49
1:E:403:HIS:NE2	1:E:416:PRO:HA	2.26	0.49
1:F:603:GLU:OE1	1:F:603:GLU:N	2.42	0.49
1:A:830:GLU:HA	1:A:833:VAL:HG22	1.95	0.49
1:B:840:CYS:C	1:B:842:GLY:HA3	2.33	0.49
1:C:373:TYR:CE1	1:C:398:ASN:HA	2.47	0.49
1:C:481:ALA:HB3	1:C:509:VAL:HG12	1.95	0.49
1:C:840:CYS:C	1:C:842:GLY:HA3	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:32:ASP:OD1	1:D:33:LYS:HG3	2.13	0.49
1:D:98:MET:HB2	1:D:445:VAL:HG12	1.94	0.49
1:D:126:ILE:O	1:D:130:THR:HG23	2.12	0.49
1:D:469:PRO:O	1:D:473:SER:OG	2.27	0.49
1:D:485:THR:O	1:D:513:PHE:HA	2.12	0.49
1:D:803:GLU:CD	1:D:803:GLU:H	2.16	0.49
1:E:110:ILE:HD13	1:E:192:ALA:HB2	1.94	0.49
1:G:681:LEU:HB2	1:G:685:LEU:HD11	1.94	0.49
1:A:606:PRO:HG3	1:A:624:TYR:CD1	2.46	0.49
1:A:840:CYS:C	1:A:842:GLY:HA3	2.33	0.49
1:B:795:GLU:O	1:B:799:THR:OG1	2.24	0.49
1:C:531:MET:O	1:C:535:GLN:N	2.44	0.49
1:C:680:MET:SD	1:C:705:ALA:HB2	2.52	0.49
1:E:397:VAL:O	1:E:399:ILE:HG13	2.13	0.49
1:E:485:THR:O	1:E:513:PHE:HA	2.12	0.49
1:F:348:ASP:N	1:F:352:ASP:OD2	2.37	0.49
1:F:679:LYS:NZ	1:F:780:HIS:O	2.46	0.49
1:F:830:GLU:HA	1:F:833:VAL:HG22	1.95	0.49
1:H:278:ASP:HA	1:H:281:LYS:HD3	1.94	0.49
1:A:98:MET:HB2	1:A:445:VAL:HG12	1.94	0.48
1:A:264:GLU:O	1:A:268:THR:HG23	2.13	0.48
1:A:704:ASN:O	1:A:707:THR:OG1	2.27	0.48
1:B:745:ALA:O	1:B:749:ARG:HG3	2.13	0.48
1:C:51:GLN:O	1:C:54:VAL:HB	2.13	0.48
1:C:270:LYS:CB	1:C:317:LYS:HG3	2.43	0.48
1:C:443:LYS:NZ	1:D:392:THR:O	2.44	0.48
1:C:549:ASP:HA	1:C:552:LYS:HE3	1.95	0.48
1:E:373:TYR:CE1	1:E:398:ASN:HA	2.47	0.48
1:F:485:THR:O	1:F:513:PHE:HA	2.12	0.48
1:F:549:ASP:HA	1:F:552:LYS:HE3	1.95	0.48
1:F:745:ALA:O	1:F:749:ARG:HG3	2.13	0.48
1:A:339:SER:O	1:A:341:THR:N	2.42	0.48
1:B:679:LYS:NZ	1:B:780:HIS:O	2.46	0.48
1:C:570:MET:CE	1:D:74:GLU:HG2	2.40	0.48
1:D:264:GLU:O	1:D:268:THR:HG23	2.13	0.48
1:D:397:VAL:O	1:D:399:ILE:HG13	2.13	0.48
1:F:220:VAL:HG12	1:F:253:ILE:HB	1.95	0.48
1:F:265:ARG:O	1:F:268:THR:OG1	2.26	0.48
1:F:337:LYS:HD2	1:F:341:THR:OG1	2.13	0.48
1:F:496:ASP:OD1	1:F:497:ASP:N	2.46	0.48
1:A:96:GLY:HA3	1:A:447:LYS:CB	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:373:TYR:CE1	1:A:398:ASN:HA	2.47	0.48
1:A:485:THR:O	1:A:513:PHE:HA	2.12	0.48
1:B:32:ASP:OD1	1:B:33:LYS:HG3	2.13	0.48
1:B:96:GLY:HA3	1:B:447:LYS:CB	2.44	0.48
1:B:110:ILE:HA	1:B:137:SER:OG	2.13	0.48
1:B:137:SER:OG	1:B:137:SER:O	2.30	0.48
1:C:126:ILE:O	1:C:130:THR:HG23	2.12	0.48
1:D:96:GLY:HA3	1:D:447:LYS:CB	2.44	0.48
1:E:51:GLN:O	1:E:54:VAL:HB	2.13	0.48
1:F:281:LYS:HA	1:F:284:LYS:NZ	2.27	0.48
1:F:564:HIS:ND1	1:F:566:GLU:CD	2.57	0.48
1:G:578:ARG:HD3	1:G:578:ARG:N	2.28	0.48
1:H:228:LYS:HG2	1:H:265:ARG:NH1	2.27	0.48
1:A:270:LYS:CB	1:A:317:LYS:HG3	2.43	0.48
1:A:397:VAL:O	1:A:399:ILE:HG13	2.13	0.48
1:A:745:ALA:O	1:A:749:ARG:HG3	2.14	0.48
1:B:349:ASN:H	1:B:352:ASP:HB3	1.79	0.48
1:B:373:TYR:CE1	1:B:398:ASN:HA	2.47	0.48
1:B:397:VAL:O	1:B:399:ILE:HG13	2.13	0.48
1:C:496:ASP:OD1	1:C:497:ASP:N	2.46	0.48
1:C:745:ALA:O	1:C:749:ARG:HG3	2.14	0.48
1:E:32:ASP:OD1	1:E:33:LYS:HG3	2.13	0.48
1:E:410:TYR:HA	1:E:411:ASN:HA	1.65	0.48
1:F:96:GLY:HA3	1:F:447:LYS:CB	2.44	0.48
1:F:270:LYS:CB	1:F:317:LYS:HG3	2.43	0.48
1:G:521:LEU:HD12	1:G:612:ASP:HA	1.94	0.48
1:G:802:ASP:HA	1:G:805:LYS:NZ	2.27	0.48
1:H:265:ARG:O	1:H:268:THR:OG1	2.27	0.48
1:A:384:ARG:NH1	1:B:445:VAL:HG11	2.28	0.48
1:A:795:GLU:O	1:A:799:THR:OG1	2.24	0.48
1:B:270:LYS:CB	1:B:317:LYS:HG3	2.43	0.48
1:C:397:VAL:O	1:C:399:ILE:HG13	2.13	0.48
1:C:618:LYS:NZ	1:C:838:ASP:OD1	2.45	0.48
1:D:337:LYS:HD2	1:D:341:THR:OG1	2.13	0.48
1:D:496:ASP:OD1	1:D:497:ASP:N	2.46	0.48
1:E:238:LYS:HA	1:E:238:LYS:HD2	1.49	0.48
1:E:337:LYS:HD2	1:E:341:THR:OG1	2.13	0.48
1:E:496:ASP:OD1	1:E:497:ASP:N	2.46	0.48
1:E:745:ALA:O	1:E:749:ARG:HG3	2.14	0.48
1:H:130:THR:HB	1:H:440:ILE:HD11	1.95	0.48
1:A:549:ASP:HA	1:A:552:LYS:HE3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:549:ASP:HA	1:B:552:LYS:HE3	1.95	0.48
1:B:803:GLU:H	1:B:803:GLU:CD	2.16	0.48
1:C:110:ILE:HA	1:C:137:SER:OG	2.13	0.48
1:C:349:ASN:H	1:C:352:ASP:HB3	1.79	0.48
1:C:830:GLU:HA	1:C:833:VAL:HG22	1.95	0.48
1:D:220:VAL:HG12	1:D:253:ILE:HD12	1.96	0.48
1:D:270:LYS:CB	1:D:317:LYS:HG3	2.43	0.48
1:E:178:SER:O	1:E:181:LEU:HD12	2.14	0.48
1:E:264:GLU:O	1:E:268:THR:HG23	2.13	0.48
1:F:27:SER:O	1:F:31:VAL:HG13	2.14	0.48
1:F:32:ASP:OD1	1:F:33:LYS:HG3	2.13	0.48
1:F:98:MET:HB2	1:F:445:VAL:HG12	1.94	0.48
1:G:672:GLY:O	1:G:676:GLN:HG2	2.13	0.48
1:H:37:ALA:O	1:H:40:LEU:HG	2.13	0.48
1:A:443:LYS:HZ3	1:B:393:ALA:C	2.17	0.48
1:A:443:LYS:HD3	1:A:443:LYS:HA	1.51	0.48
1:A:496:ASP:OD1	1:A:497:ASP:N	2.46	0.48
1:B:27:SER:O	1:B:31:VAL:HG13	2.14	0.48
1:B:110:ILE:HB	1:B:192:ALA:HA	1.95	0.48
1:B:485:THR:O	1:B:513:PHE:HA	2.12	0.48
1:B:778:ALA:HB2	1:B:797:LEU:HG	1.96	0.48
1:C:252:ALA:O	1:C:345:PHE:N	2.45	0.48
1:D:51:GLN:O	1:D:54:VAL:HB	2.13	0.48
1:E:23:PHE:CE1	1:E:131:ARG:HA	2.49	0.48
1:E:220:VAL:HG12	1:E:253:ILE:HD12	1.96	0.48
1:E:784:SER:HA	1:E:796:ARG:HD3	1.96	0.48
1:E:803:GLU:H	1:E:803:GLU:CD	2.16	0.48
1:F:803:GLU:CD	1:F:803:GLU:H	2.16	0.48
1:G:458:PRO:HB3	1:G:628:PRO:O	2.13	0.48
1:G:779:ASP:OD1	1:G:780:HIS:N	2.47	0.48
1:G:784:SER:HA	1:G:796:ARG:HD3	1.95	0.48
1:G:840:CYS:C	1:G:842:GLY:HA3	2.33	0.48
1:A:784:SER:HA	1:A:796:ARG:HD3	1.96	0.48
1:B:154:LEU:O	1:B:158:ILE:HG12	2.14	0.48
1:B:178:SER:O	1:B:181:LEU:HD12	2.14	0.48
1:B:264:GLU:O	1:B:268:THR:HG23	2.13	0.48
1:B:784:SER:HA	1:B:796:ARG:HD3	1.96	0.48
1:B:806:VAL:HG23	1:B:812:LYS:HZ2	1.78	0.48
1:C:264:GLU:O	1:C:268:THR:HG23	2.13	0.48
1:D:27:SER:O	1:D:31:VAL:HG13	2.14	0.48
1:D:110:ILE:HA	1:D:137:SER:OG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:495:ALA:O	1:D:498:VAL:HG23	2.14	0.48
1:D:549:ASP:HA	1:D:552:LYS:HE3	1.95	0.48
1:E:252:ALA:O	1:E:345:PHE:N	2.45	0.48
1:E:531:MET:O	1:E:535:GLN:N	2.44	0.48
1:E:803:GLU:HA	1:E:806:VAL:HB	1.96	0.48
1:F:220:VAL:HG12	1:F:253:ILE:HD12	1.96	0.48
1:F:264:GLU:O	1:F:268:THR:HG23	2.13	0.48
1:F:397:VAL:O	1:F:399:ILE:HG13	2.13	0.48
1:A:23:PHE:CE1	1:A:131:ARG:HA	2.49	0.48
1:A:577:LYS:HB2	1:A:579:ILE:HD11	1.96	0.48
1:B:228:LYS:HB2	1:B:229:ARG:NH1	2.27	0.48
1:B:443:LYS:HD3	1:B:443:LYS:HA	1.51	0.48
1:B:458:PRO:HB3	1:B:628:PRO:O	2.14	0.48
1:B:481:ALA:HB3	1:B:509:VAL:HG12	1.95	0.48
1:C:96:GLY:HA3	1:C:447:LYS:CB	2.44	0.48
1:C:803:GLU:HA	1:C:806:VAL:HB	1.96	0.48
1:D:23:PHE:CE1	1:D:131:ARG:HA	2.49	0.48
1:D:683:GLU:OE1	1:D:683:GLU:N	2.39	0.48
1:F:129:LYS:HD2	1:F:129:LYS:HA	1.45	0.48
1:F:516:GLU:OE1	1:F:518:ASP:N	2.37	0.48
1:F:652:ASP:O	1:F:655:THR:OG1	2.25	0.48
1:G:623:ASP:N	1:G:623:ASP:OD1	2.47	0.48
1:A:32:ASP:OD1	1:A:33:LYS:HG3	2.13	0.48
1:A:803:GLU:HA	1:A:806:VAL:HB	1.96	0.48
1:B:496:ASP:OD1	1:B:497:ASP:N	2.46	0.48
1:C:178:SER:O	1:C:181:LEU:HD12	2.14	0.48
1:C:495:ALA:O	1:C:498:VAL:HG23	2.14	0.48
1:C:577:LYS:HB2	1:C:579:ILE:HD11	1.96	0.48
1:E:728:ILE:HG12	1:E:728:ILE:H	1.37	0.48
1:F:481:ALA:HB3	1:F:509:VAL:HG12	1.95	0.48
1:G:582:PHE:CE1	1:G:625:GLU:HG3	2.49	0.48
1:A:27:SER:O	1:A:31:VAL:HG13	2.14	0.47
1:A:495:ALA:O	1:A:498:VAL:HG23	2.14	0.47
1:C:27:SER:O	1:C:31:VAL:HG13	2.14	0.47
1:C:603:GLU:OE1	1:C:603:GLU:N	2.42	0.47
1:D:778:ALA:HB2	1:D:797:LEU:HG	1.96	0.47
1:E:110:ILE:HB	1:E:192:ALA:HA	1.95	0.47
1:E:778:ALA:HB2	1:E:797:LEU:HG	1.96	0.47
1:F:458:PRO:HB3	1:F:628:PRO:O	2.14	0.47
1:F:704:ASN:O	1:F:707:THR:OG1	2.27	0.47
1:G:571:ARG:HH11	1:H:81:LYS:NZ	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:65:LYS:HA	1:H:68:LYS:HG2	1.95	0.47
1:A:450:GLU:HG2	1:A:451:ASN:N	2.29	0.47
1:B:23:PHE:CE1	1:B:131:ARG:HA	2.49	0.47
1:B:577:LYS:HB2	1:B:579:ILE:HD11	1.96	0.47
1:C:32:ASP:OD1	1:C:33:LYS:HG3	2.13	0.47
1:C:445:VAL:HG23	1:D:395:ILE:HB	1.94	0.47
1:C:459:LYS:NZ	1:C:629:GLN:HB2	2.30	0.47
1:C:472:LEU:O	1:C:475:LEU:HB2	2.15	0.47
1:D:745:ALA:O	1:D:749:ARG:HG3	2.13	0.47
1:E:27:SER:O	1:E:31:VAL:HG13	2.14	0.47
1:E:349:ASN:H	1:E:352:ASP:HB3	1.79	0.47
1:E:458:PRO:HB3	1:E:628:PRO:O	2.14	0.47
1:F:339:SER:O	1:F:341:THR:N	2.42	0.47
1:F:349:ASN:H	1:F:352:ASP:HB3	1.79	0.47
1:H:52:MET:HG3	1:H:145:SER:OG	2.15	0.47
1:H:140:PRO:HG3	1:H:173:PRO:HG2	1.95	0.47
1:A:51:GLN:O	1:A:54:VAL:HB	2.13	0.47
1:A:337:LYS:HD2	1:A:341:THR:OG1	2.13	0.47
1:A:472:LEU:O	1:A:475:LEU:HB2	2.15	0.47
1:A:762:PHE:CD2	1:B:406:ILE:CG2	2.97	0.47
1:B:472:LEU:O	1:B:475:LEU:HB2	2.15	0.47
1:B:495:ALA:O	1:B:498:VAL:HG23	2.14	0.47
1:B:830:GLU:HA	1:B:833:VAL:HG22	1.95	0.47
1:C:23:PHE:CE1	1:C:131:ARG:HA	2.49	0.47
1:D:458:PRO:HB3	1:D:628:PRO:O	2.14	0.47
1:D:512:PHE:CE2	1:D:514:GLU:HB2	2.49	0.47
1:E:102:GLU:HG2	1:E:441:ASN:HB2	1.97	0.47
1:F:252:ALA:O	1:F:345:PHE:N	2.45	0.47
1:F:778:ALA:HB2	1:F:797:LEU:HG	1.96	0.47
1:F:803:GLU:HA	1:F:806:VAL:HB	1.96	0.47
1:F:806:VAL:HG23	1:F:812:LYS:NZ	2.29	0.47
1:C:154:LEU:O	1:C:158:ILE:HG12	2.14	0.47
1:C:516:GLU:OE1	1:C:518:ASP:N	2.37	0.47
1:D:102:GLU:HG2	1:D:441:ASN:HB2	1.97	0.47
1:D:349:ASN:H	1:D:352:ASP:HB3	1.79	0.47
1:D:459:LYS:NZ	1:D:629:GLN:HB2	2.30	0.47
1:D:564:HIS:ND1	1:D:566:GLU:CD	2.57	0.47
1:D:618:LYS:NZ	1:D:838:ASP:OD1	2.45	0.47
1:D:784:SER:HA	1:D:796:ARG:HD3	1.96	0.47
1:E:495:ALA:O	1:E:498:VAL:HG23	2.14	0.47
1:E:830:GLU:HA	1:E:833:VAL:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:110:ILE:HA	1:F:137:SER:OG	2.13	0.47
1:F:459:LYS:NZ	1:F:629:GLN:HB2	2.30	0.47
1:F:523:VAL:HA	1:F:526:LYS:HG2	1.97	0.47
1:G:462:TYR:O	1:G:632:ILE:HA	2.15	0.47
1:G:499:VAL:O	1:G:503:LYS:HE2	2.14	0.47
1:G:781:LEU:HB3	1:G:783:LEU:HG	1.96	0.47
1:A:110:ILE:HA	1:A:137:SER:OG	2.13	0.47
1:A:178:SER:O	1:A:181:LEU:HD12	2.14	0.47
1:A:220:VAL:HG12	1:A:253:ILE:HB	1.95	0.47
1:A:425:TRP:CD1	1:A:426:GLY:CA	2.98	0.47
1:A:459:LYS:NZ	1:A:629:GLN:HB2	2.30	0.47
1:A:564:HIS:ND1	1:A:566:GLU:CD	2.57	0.47
1:B:358:VAL:O	1:B:361:VAL:HG13	2.15	0.47
1:C:220:VAL:HG12	1:C:253:ILE:HD12	1.96	0.47
1:C:425:TRP:CD1	1:C:426:GLY:CA	2.97	0.47
1:C:803:GLU:CD	1:C:803:GLU:H	2.16	0.47
1:D:178:SER:O	1:D:181:LEU:HD12	2.14	0.47
1:D:358:VAL:O	1:D:361:VAL:HG13	2.15	0.47
1:D:453:LEU:CD2	1:E:464:ARG:HH21	2.27	0.47
1:D:472:LEU:O	1:D:475:LEU:HB2	2.15	0.47
1:E:110:ILE:HA	1:E:137:SER:OG	2.13	0.47
1:E:523:VAL:HA	1:E:526:LYS:HG2	1.97	0.47
1:F:23:PHE:CE1	1:F:131:ARG:HA	2.49	0.47
1:F:51:GLN:O	1:F:54:VAL:HB	2.13	0.47
1:F:450:GLU:HG2	1:F:451:ASN:N	2.30	0.47
1:G:465:ARG:HA	1:G:465:ARG:NE	2.29	0.47
1:H:36:ARG:HG2	1:H:77:TYR:OH	2.15	0.47
1:H:119:THR:O	1:H:123:LYS:HG2	2.14	0.47
1:A:252:ALA:O	1:A:345:PHE:N	2.45	0.47
1:A:778:ALA:HB2	1:A:797:LEU:HG	1.96	0.47
1:B:51:GLN:O	1:B:54:VAL:HB	2.13	0.47
1:B:523:VAL:HA	1:B:526:LYS:HG2	1.97	0.47
1:C:358:VAL:O	1:C:361:VAL:HG13	2.15	0.47
1:C:368:HIS:O	1:C:393:ALA:HB3	2.15	0.47
1:C:458:PRO:HB3	1:C:628:PRO:O	2.14	0.47
1:C:766:ASP:N	1:C:766:ASP:OD1	2.48	0.47
1:C:784:SER:HA	1:C:796:ARG:HD3	1.96	0.47
1:D:368:HIS:O	1:D:393:ALA:HB3	2.15	0.47
1:D:425:TRP:CD1	1:D:426:GLY:CA	2.98	0.47
1:D:669:TYR:CE2	1:E:708:ILE:HD11	2.49	0.47
1:D:830:GLU:HA	1:D:833:VAL:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:96:GLY:HA3	1:E:447:LYS:CB	2.44	0.47
1:E:154:LEU:O	1:E:158:ILE:HG12	2.14	0.47
1:E:270:LYS:CB	1:E:317:LYS:HG3	2.43	0.47
1:E:425:TRP:CD1	1:E:426:GLY:CA	2.98	0.47
1:E:459:LYS:NZ	1:E:629:GLN:HB2	2.30	0.47
1:E:512:PHE:CE2	1:E:514:GLU:HB2	2.49	0.47
1:E:537:ASP:OD1	1:E:538:VAL:HG23	2.15	0.47
1:F:110:ILE:HB	1:F:192:ALA:HA	1.94	0.47
1:F:577:LYS:HB2	1:F:579:ILE:HD11	1.96	0.47
1:G:503:LYS:HA	1:G:506:GLY:HA2	1.95	0.47
1:G:652:ASP:HB2	1:G:737:GLY:HA2	1.96	0.47
1:H:261:GLU:HA	1:H:264:GLU:HG3	1.97	0.47
1:A:102:GLU:HG2	1:A:441:ASN:HB2	1.97	0.47
1:A:349:ASN:H	1:A:352:ASP:HB3	1.79	0.47
1:A:766:ASP:N	1:A:766:ASP:OD1	2.48	0.47
1:A:806:VAL:HG23	1:A:812:LYS:NZ	2.29	0.47
1:B:252:ALA:O	1:B:345:PHE:N	2.45	0.47
1:C:405:GLY:HA3	1:C:410:TYR:CD2	2.50	0.47
1:C:443:LYS:HZ3	1:D:392:THR:C	2.18	0.47
1:C:778:ALA:HB2	1:C:797:LEU:HG	1.96	0.47
1:C:806:VAL:HG23	1:C:812:LYS:NZ	2.29	0.47
1:D:107:ILE:O	1:D:134:ILE:HD12	2.15	0.47
1:D:154:LEU:O	1:D:158:ILE:HG12	2.14	0.47
1:D:450:GLU:HG2	1:D:451:ASN:N	2.29	0.47
1:D:577:LYS:HB2	1:D:579:ILE:HD11	1.96	0.47
1:E:368:HIS:O	1:E:393:ALA:HB3	2.15	0.47
1:G:540:LEU:HD13	1:G:592:VAL:HG13	1.97	0.47
1:G:746:ASN:HB3	1:G:856:VAL:HG13	1.97	0.47
1:A:197:GLY:HA2	1:A:200:LYS:NZ	2.30	0.47
1:A:358:VAL:O	1:A:361:VAL:HG13	2.15	0.47
1:A:405:GLY:HA3	1:A:410:TYR:CD2	2.50	0.47
1:B:102:GLU:HG2	1:B:441:ASN:HB2	1.96	0.47
1:B:459:LYS:NZ	1:B:629:GLN:HB2	2.29	0.47
1:B:512:PHE:CE2	1:B:514:GLU:HB2	2.49	0.47
1:C:450:GLU:HG2	1:C:451:ASN:N	2.29	0.47
1:D:537:ASP:OD1	1:D:538:VAL:HG23	2.15	0.47
1:D:673:GLN:NE2	1:D:712:ALA:HA	2.30	0.47
1:E:32:ASP:O	1:E:36:ARG:HG3	2.15	0.47
1:E:197:GLY:HA2	1:E:200:LYS:NZ	2.30	0.47
1:E:405:GLY:HA3	1:E:410:TYR:CD2	2.50	0.47
1:E:618:LYS:NZ	1:E:838:ASP:OD1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:339:SER:O	1:H:341:THR:N	2.46	0.47
1:A:154:LEU:O	1:A:158:ILE:HG12	2.14	0.47
1:B:618:LYS:NZ	1:B:838:ASP:OD1	2.45	0.47
1:C:32:ASP:O	1:C:36:ARG:HG3	2.15	0.47
1:C:512:PHE:CE2	1:C:514:GLU:HB2	2.49	0.47
1:C:537:ASP:OD1	1:C:538:VAL:HG23	2.15	0.47
1:D:348:ASP:N	1:D:352:ASP:OD2	2.37	0.47
1:E:265:ARG:O	1:E:268:THR:OG1	2.26	0.47
1:F:102:GLU:HG2	1:F:441:ASN:HB2	1.97	0.47
1:F:296:ILE:H	1:F:296:ILE:HG12	1.49	0.47
1:F:368:HIS:O	1:F:393:ALA:HB3	2.15	0.47
1:G:480:ARG:HA	1:G:508:GLU:HG2	1.95	0.47
1:A:107:ILE:O	1:A:134:ILE:HD12	2.15	0.47
1:A:220:VAL:HG12	1:A:253:ILE:HD12	1.96	0.47
1:A:537:ASP:OD1	1:A:538:VAL:HG23	2.15	0.47
1:B:450:GLU:HG2	1:B:451:ASN:N	2.29	0.47
1:B:466:GLY:N	1:B:636:ASN:HD21	2.10	0.47
1:B:798:LEU:O	1:B:801:LEU:HG	2.15	0.47
1:C:270:LYS:O	1:C:316:THR:OG1	2.21	0.47
1:D:758:LYS:HZ1	1:D:846:ARG:NH1	2.13	0.47
1:D:803:GLU:HA	1:D:806:VAL:HB	1.96	0.47
1:E:443:LYS:HA	1:E:443:LYS:HD3	1.51	0.47
1:E:450:GLU:HG2	1:E:451:ASN:N	2.29	0.47
1:E:806:VAL:HG23	1:E:812:LYS:NZ	2.29	0.47
1:E:830:GLU:O	1:E:833:VAL:HG22	2.16	0.47
1:F:178:SER:O	1:F:181:LEU:HD12	2.14	0.47
1:F:197:GLY:HA2	1:F:200:LYS:NZ	2.30	0.47
1:F:618:LYS:NZ	1:F:838:ASP:OD1	2.45	0.47
1:A:458:PRO:HB3	1:A:628:PRO:O	2.14	0.46
1:B:220:VAL:HG12	1:B:253:ILE:HD12	1.96	0.46
1:B:368:HIS:O	1:B:393:ALA:HB3	2.15	0.46
1:C:107:ILE:O	1:C:134:ILE:HD12	2.15	0.46
1:C:399:ILE:HG22	1:C:400:PRO:O	2.15	0.46
1:D:197:GLY:HA2	1:D:200:LYS:NZ	2.30	0.46
1:D:399:ILE:HG22	1:D:400:PRO:O	2.15	0.46
1:E:673:GLN:NE2	1:E:712:ALA:HA	2.30	0.46
1:F:137:SER:OG	1:F:137:SER:O	2.30	0.46
1:F:425:TRP:CD1	1:F:426:GLY:CA	2.98	0.46
1:F:458:PRO:HG2	1:F:604:VAL:HG23	1.98	0.46
1:F:495:ALA:O	1:F:498:VAL:HG23	2.14	0.46
1:G:747:VAL:O	1:G:750:TYR:HB3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:16:VAL:O	1:H:20:GLN:HG3	2.15	0.46
1:H:143:LYS:NZ	1:H:170:ILE:O	2.37	0.46
1:H:235:LEU:HD22	1:H:269:HIS:CE1	2.50	0.46
1:A:32:ASP:O	1:A:36:ARG:HG3	2.15	0.46
1:A:512:PHE:CE2	1:A:514:GLU:HB2	2.49	0.46
1:B:425:TRP:CD1	1:B:426:GLY:CA	2.98	0.46
1:B:537:ASP:OD1	1:B:538:VAL:HG23	2.15	0.46
1:D:667:ASN:CG	1:D:669:TYR:HB2	2.36	0.46
1:E:577:LYS:HB2	1:E:579:ILE:HD11	1.96	0.46
1:F:154:LEU:O	1:F:158:ILE:HG12	2.14	0.46
1:H:81:LYS:HE2	1:H:81:LYS:HB3	1.53	0.46
1:B:405:GLY:HA3	1:B:410:TYR:CD2	2.50	0.46
1:B:606:PRO:HG3	1:B:624:TYR:CD1	2.46	0.46
1:C:673:GLN:HA	1:C:676:GLN:HB3	1.98	0.46
1:C:798:LEU:O	1:C:801:LEU:HG	2.15	0.46
1:C:830:GLU:O	1:C:833:VAL:HG22	2.16	0.46
1:D:806:VAL:HG23	1:D:812:LYS:NZ	2.29	0.46
1:E:107:ILE:O	1:E:134:ILE:HD12	2.15	0.46
1:E:442:LYS:HA	1:E:442:LYS:HD3	1.35	0.46
1:E:472:LEU:O	1:E:475:LEU:HB2	2.15	0.46
1:E:657:ALA:HB3	1:E:678:LEU:HD21	1.98	0.46
1:E:836:PHE:CE2	1:F:63:GLU:HB3	2.50	0.46
1:F:238:LYS:HD2	1:F:238:LYS:HA	1.49	0.46
1:F:579:ILE:HA	1:F:580:TYR:HA	1.65	0.46
1:G:738:LEU:HD23	1:G:738:LEU:H	1.80	0.46
1:G:769:GLN:OE1	1:G:770:ALA:N	2.48	0.46
1:H:40:LEU:HD12	1:H:41:ALA:N	2.31	0.46
1:A:250:GLN:OE1	1:A:337:LYS:N	2.49	0.46
1:B:612:ASP:HB3	1:B:617:ALA:N	2.30	0.46
1:C:46:ARG:NH2	1:C:70:HIS:ND1	2.64	0.46
1:C:197:GLY:HA2	1:C:200:LYS:NZ	2.30	0.46
1:C:339:SER:O	1:C:341:THR:N	2.42	0.46
1:C:469:PRO:O	1:C:473:SER:OG	2.27	0.46
1:C:523:VAL:HA	1:C:526:LYS:HG2	1.97	0.46
1:C:576:ARG:HG2	1:C:576:ARG:O	2.15	0.46
1:D:222:ASP:OD2	1:D:374:THR:OG1	2.26	0.46
1:D:405:GLY:HA3	1:D:410:TYR:CD2	2.50	0.46
1:D:643:LYS:HA	1:D:644:SER:HA	1.65	0.46
1:F:222:ASP:OD2	1:F:374:THR:OG1	2.26	0.46
1:F:472:LEU:O	1:F:475:LEU:HB2	2.15	0.46
1:F:576:ARG:O	1:F:576:ARG:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:673:GLN:NE2	1:F:712:ALA:HA	2.30	0.46
1:A:46:ARG:NH2	1:A:70:HIS:ND1	2.64	0.46
1:A:667:ASN:CG	1:A:669:TYR:HB2	2.36	0.46
1:B:197:GLY:HA2	1:B:200:LYS:NZ	2.30	0.46
1:C:102:GLU:HG2	1:C:441:ASN:HB2	1.97	0.46
1:C:667:ASN:CG	1:C:669:TYR:HB2	2.36	0.46
1:C:673:GLN:NE2	1:C:712:ALA:HA	2.30	0.46
1:D:121:ILE:HG13	1:D:122:PHE:N	2.31	0.46
1:D:576:ARG:O	1:D:576:ARG:HG2	2.15	0.46
1:D:798:LEU:O	1:D:801:LEU:HG	2.16	0.46
1:D:830:GLU:O	1:D:833:VAL:HG22	2.16	0.46
1:E:46:ARG:NH2	1:E:70:HIS:ND1	2.64	0.46
1:F:46:ARG:NH2	1:F:70:HIS:ND1	2.64	0.46
1:F:107:ILE:O	1:F:134:ILE:HD12	2.15	0.46
1:F:784:SER:HA	1:F:796:ARG:HD3	1.96	0.46
1:G:849:LEU:HB2	1:H:63:GLU:CD	2.36	0.46
1:A:376:GLN:HG3	1:B:448:ARG:NH2	2.30	0.46
1:A:399:ILE:HG22	1:A:400:PRO:O	2.15	0.46
1:A:673:GLN:HA	1:A:676:GLN:HB3	1.98	0.46
1:A:673:GLN:NE2	1:A:712:ALA:HA	2.30	0.46
1:A:746:ASN:HA	1:A:749:ARG:CD	2.46	0.46
1:B:149:ALA:O	1:B:153:VAL:HG22	2.16	0.46
1:B:516:GLU:OE1	1:B:518:ASP:N	2.37	0.46
1:B:803:GLU:HA	1:B:806:VAL:HB	1.96	0.46
1:C:46:ARG:HB3	1:C:69:ASN:HB3	1.98	0.46
1:C:121:ILE:HG13	1:C:122:PHE:N	2.31	0.46
1:D:570:MET:HA	1:D:570:MET:HE3	1.97	0.46
1:E:121:ILE:HG13	1:E:122:PHE:N	2.31	0.46
1:E:350:PHE:O	1:E:354:VAL:HG23	2.16	0.46
1:E:458:PRO:HG2	1:E:604:VAL:HG23	1.98	0.46
1:E:612:ASP:HB3	1:E:617:ALA:N	2.30	0.46
1:E:821:GLU:HB3	1:E:861:TYR:OH	2.16	0.46
1:F:121:ILE:HG13	1:F:122:PHE:N	2.31	0.46
1:F:358:VAL:O	1:F:361:VAL:HG13	2.15	0.46
1:F:442:LYS:HA	1:F:442:LYS:HD3	1.35	0.46
1:F:469:PRO:O	1:F:473:SER:OG	2.27	0.46
1:F:512:PHE:CE2	1:F:514:GLU:HB2	2.49	0.46
1:F:673:GLN:HA	1:F:676:GLN:HB3	1.98	0.46
1:G:678:LEU:HD22	1:G:781:LEU:HD21	1.97	0.46
1:H:143:LYS:HG2	1:H:147:ASN:ND2	2.29	0.46
1:A:265:ARG:O	1:A:268:THR:OG1	2.26	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:523:VAL:HA	1:A:526:LYS:HG2	1.97	0.46
1:B:107:ILE:O	1:B:134:ILE:HD12	2.15	0.46
1:B:667:ASN:CG	1:B:669:TYR:HB2	2.36	0.46
1:B:806:VAL:HG23	1:B:812:LYS:NZ	2.30	0.46
1:C:612:ASP:HB3	1:C:617:ALA:N	2.30	0.46
1:D:821:GLU:HB3	1:D:861:TYR:OH	2.16	0.46
1:E:746:ASN:HA	1:E:749:ARG:CD	2.46	0.46
1:F:405:GLY:HA3	1:F:410:TYR:CD2	2.50	0.46
1:F:667:ASN:CG	1:F:669:TYR:HB2	2.36	0.46
1:F:798:LEU:O	1:F:801:LEU:HG	2.15	0.46
1:H:20:GLN:CD	1:H:133:GLY:HA3	2.35	0.46
1:H:135:ILE:HA	1:H:168:GLY:O	2.15	0.46
1:A:129:LYS:HA	1:A:129:LYS:HD2	1.45	0.46
1:A:289:ASP:OD1	1:A:289:ASP:N	2.46	0.46
1:A:830:GLU:O	1:A:833:VAL:HG22	2.15	0.46
1:B:121:ILE:HG13	1:B:122:PHE:N	2.31	0.46
1:B:830:GLU:O	1:B:833:VAL:HG22	2.15	0.46
1:C:657:ALA:HB3	1:C:678:LEU:HD21	1.98	0.46
1:D:465:ARG:NH2	1:D:636:ASN:OD1	2.49	0.46
1:D:523:VAL:HA	1:D:526:LYS:HG2	1.97	0.46
1:E:829:ASP:OD1	1:E:854:LYS:NZ	2.35	0.46
1:F:250:GLN:OE1	1:F:337:LYS:N	2.49	0.46
1:H:228:LYS:CG	1:H:265:ARG:HH12	2.29	0.46
1:A:350:PHE:O	1:A:354:VAL:HG23	2.16	0.46
1:A:368:HIS:O	1:A:393:ALA:HB3	2.15	0.46
1:B:692:GLY:HA3	1:B:699:ARG:HH11	1.81	0.46
1:C:149:ALA:O	1:C:153:VAL:HG22	2.16	0.46
1:C:465:ARG:NH2	1:C:636:ASN:OD1	2.49	0.46
1:D:250:GLN:OE1	1:D:337:LYS:N	2.49	0.46
1:D:673:GLN:HA	1:D:676:GLN:HB3	1.98	0.46
1:E:49:LEU:H	1:E:49:LEU:HG	1.63	0.46
1:E:358:VAL:O	1:E:361:VAL:HG13	2.15	0.46
1:E:643:LYS:HA	1:E:644:SER:HA	1.65	0.46
1:F:399:ILE:HG22	1:F:400:PRO:O	2.15	0.46
1:F:465:ARG:NH2	1:F:636:ASN:OD1	2.49	0.46
1:F:537:ASP:OD1	1:F:538:VAL:HG23	2.15	0.46
1:F:540:LEU:HD22	1:F:592:VAL:HB	1.98	0.46
1:F:606:PRO:HG3	1:F:624:TYR:CD1	2.46	0.46
1:F:657:ALA:HB3	1:F:678:LEU:HD21	1.98	0.46
1:G:579:ILE:HA	1:G:580:TYR:HA	1.51	0.46
1:G:664:VAL:N	1:G:843:ALA:HB1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:836:PHE:CZ	1:H:63:GLU:HB3	2.51	0.46
1:A:149:ALA:O	1:A:153:VAL:HG22	2.16	0.46
1:A:442:LYS:HD3	1:A:442:LYS:HA	1.35	0.46
1:B:32:ASP:O	1:B:36:ARG:HG3	2.15	0.46
1:B:46:ARG:HB3	1:B:69:ASN:HB3	1.98	0.46
1:B:458:PRO:HG2	1:B:604:VAL:HG23	1.98	0.46
1:B:576:ARG:O	1:B:576:ARG:HG2	2.15	0.46
1:B:673:GLN:NE2	1:B:712:ALA:HA	2.30	0.46
1:C:348:ASP:N	1:C:352:ASP:OD2	2.37	0.46
1:D:32:ASP:O	1:D:36:ARG:HG3	2.15	0.46
1:D:172:GLN:OE1	1:D:172:GLN:N	2.49	0.46
1:D:657:ALA:HB3	1:D:678:LEU:HD21	1.98	0.46
1:D:692:GLY:HA3	1:D:699:ARG:HH11	1.82	0.46
1:D:785:GLN:HB3	1:D:788:ASP:OD1	2.16	0.46
1:E:149:ALA:O	1:E:153:VAL:HG22	2.16	0.46
1:E:704:ASN:O	1:E:707:THR:OG1	2.27	0.46
1:E:785:GLN:HB3	1:E:788:ASP:OD1	2.16	0.46
1:F:692:GLY:HA3	1:F:699:ARG:HH11	1.82	0.46
1:F:830:GLU:O	1:F:833:VAL:HG22	2.16	0.46
1:G:682:LYS:HB2	1:G:800:TRP:HZ2	1.81	0.46
1:H:264:GLU:O	1:H:268:THR:HG23	2.16	0.46
1:A:379:ASN:O	1:A:383:ILE:HG13	2.16	0.45
1:A:576:ARG:HG2	1:A:576:ARG:O	2.15	0.45
1:A:618:LYS:NZ	1:A:838:ASP:OD1	2.45	0.45
1:A:717:PHE:HE2	1:A:839:GLN:OE1	1.99	0.45
1:B:70:HIS:CE1	1:B:74:GLU:OE2	2.69	0.45
1:B:379:ASN:O	1:B:383:ILE:HG13	2.16	0.45
1:B:746:ASN:HA	1:B:749:ARG:CD	2.46	0.45
1:C:350:PHE:O	1:C:354:VAL:HG23	2.16	0.45
1:C:746:ASN:HA	1:C:749:ARG:CD	2.46	0.45
1:F:452:MET:CE	1:G:467:SER:HB2	2.46	0.45
1:F:746:ASN:HA	1:F:749:ARG:CD	2.46	0.45
1:F:758:LYS:HZ1	1:F:846:ARG:NH1	2.15	0.45
1:G:454:TRP:HE1	1:G:578:ARG:NH1	2.13	0.45
1:A:410:TYR:HA	1:A:411:ASN:HA	1.65	0.45
1:A:458:PRO:HG2	1:A:604:VAL:HG23	1.98	0.45
1:A:516:GLU:OE1	1:A:518:ASP:N	2.37	0.45
1:A:798:LEU:O	1:A:801:LEU:HG	2.15	0.45
1:B:46:ARG:NH2	1:B:70:HIS:ND1	2.64	0.45
1:C:458:PRO:HG2	1:C:604:VAL:HG23	1.98	0.45
1:C:692:GLY:HA3	1:C:699:ARG:HH11	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:612:ASP:HB3	1:D:617:ALA:N	2.30	0.45
1:E:46:ARG:HB3	1:E:69:ASN:HB3	1.98	0.45
1:E:576:ARG:O	1:E:576:ARG:HG2	2.15	0.45
1:E:667:ASN:CG	1:E:669:TYR:HB2	2.36	0.45
1:G:795:GLU:O	1:G:799:THR:HG23	2.16	0.45
1:A:638:VAL:O	1:A:639:MET:HE1	2.17	0.45
1:A:804:LEU:HD12	1:A:804:LEU:HA	1.72	0.45
1:B:265:ARG:O	1:B:268:THR:OG1	2.26	0.45
1:B:569:ALA:HA	1:B:621:LEU:CD1	2.42	0.45
1:B:766:ASP:OD1	1:B:766:ASP:N	2.48	0.45
1:D:149:ALA:O	1:D:153:VAL:HG22	2.16	0.45
1:E:250:GLN:OE1	1:E:337:LYS:N	2.49	0.45
1:E:465:ARG:NH2	1:E:636:ASN:OD1	2.49	0.45
1:E:673:GLN:HA	1:E:676:GLN:HB3	1.98	0.45
1:F:32:ASP:O	1:F:36:ARG:HG3	2.15	0.45
1:F:46:ARG:HB3	1:F:69:ASN:HB3	1.98	0.45
1:F:149:ALA:O	1:F:153:VAL:HG22	2.16	0.45
1:F:764:GLN:OE1	1:F:764:GLN:N	2.49	0.45
1:F:821:GLU:HB3	1:F:861:TYR:OH	2.15	0.45
1:G:454:TRP:CE3	1:G:456:LYS:HE3	2.51	0.45
1:G:635:ALA:O	1:G:639:MET:HE3	2.16	0.45
1:H:251:ALA:HB3	1:H:360:MET:SD	2.56	0.45
1:A:70:HIS:CE1	1:A:74:GLU:OE2	2.69	0.45
1:A:540:LEU:HD22	1:A:592:VAL:HB	1.98	0.45
1:B:399:ILE:HG22	1:B:400:PRO:O	2.15	0.45
1:B:657:ALA:HB3	1:B:678:LEU:HD21	1.98	0.45
1:B:821:GLU:HB3	1:B:861:TYR:OH	2.16	0.45
1:C:379:ASN:O	1:C:383:ILE:HG13	2.16	0.45
1:D:606:PRO:HG3	1:D:624:TYR:CD1	2.46	0.45
1:D:785:GLN:N	1:D:788:ASP:OD2	2.50	0.45
1:E:172:GLN:OE1	1:E:172:GLN:N	2.49	0.45
1:E:304:ILE:HA	1:E:307:MET:HG3	1.99	0.45
1:F:70:HIS:CE1	1:F:74:GLU:OE2	2.69	0.45
1:F:483:LEU:HD12	1:F:483:LEU:HA	1.70	0.45
1:F:638:VAL:O	1:F:639:MET:HE1	2.16	0.45
1:G:729:GLY:HA2	1:G:734:LEU:HB2	1.99	0.45
1:G:754:ASP:OD1	1:G:754:ASP:N	2.45	0.45
1:G:778:ALA:HB2	1:G:797:LEU:HD12	1.98	0.45
1:H:283:ARG:NH1	1:H:323:GLY:O	2.49	0.45
1:H:367:GLY:HA3	1:H:430:ILE:HD13	1.98	0.45
1:A:172:GLN:N	1:A:172:GLN:OE1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:465:ARG:NH2	1:A:636:ASN:OD1	2.49	0.45
1:B:172:GLN:OE1	1:B:172:GLN:N	2.49	0.45
1:B:200:LYS:HE2	1:B:200:LYS:HB2	1.85	0.45
1:C:540:LEU:HD22	1:C:592:VAL:HB	1.98	0.45
1:C:728:ILE:HG12	1:C:728:ILE:H	1.37	0.45
1:C:821:GLU:HB3	1:C:861:TYR:OH	2.16	0.45
1:D:32:ASP:O	1:D:35:PHE:HB3	2.17	0.45
1:D:70:HIS:CE1	1:D:74:GLU:OE2	2.69	0.45
1:D:129:LYS:HA	1:D:129:LYS:HD2	1.45	0.45
1:D:350:PHE:O	1:D:354:VAL:HG23	2.16	0.45
1:D:453:LEU:HD21	1:E:464:ARG:HH21	1.80	0.45
1:D:480:ARG:N	1:D:537:ASP:OD2	2.33	0.45
1:E:185:ASP:OD1	1:E:185:ASP:N	2.50	0.45
1:E:564:HIS:ND1	1:E:566:GLU:CD	2.57	0.45
1:E:798:LEU:O	1:E:801:LEU:HG	2.15	0.45
1:F:172:GLN:N	1:F:172:GLN:OE1	2.49	0.45
1:F:304:ILE:HA	1:F:307:MET:HG3	1.99	0.45
1:G:516:GLU:OE1	1:G:516:GLU:N	2.50	0.45
1:G:833:VAL:O	1:H:47:ILE:HD13	2.15	0.45
1:A:657:ALA:HB3	1:A:678:LEU:HD21	1.98	0.45
1:B:717:PHE:HE2	1:B:839:GLN:OE1	1.99	0.45
1:C:32:ASP:O	1:C:35:PHE:HB3	2.17	0.45
1:C:579:ILE:HA	1:C:580:TYR:HA	1.65	0.45
1:D:46:ARG:HB3	1:D:69:ASN:HB3	1.98	0.45
1:D:46:ARG:NH2	1:D:70:HIS:ND1	2.64	0.45
1:E:70:HIS:CE1	1:E:74:GLU:OE2	2.69	0.45
1:F:32:ASP:O	1:F:35:PHE:HB3	2.17	0.45
1:F:785:GLN:HB3	1:F:788:ASP:OD1	2.16	0.45
1:H:34:ILE:HG12	1:H:160:ALA:CB	2.45	0.45
1:A:32:ASP:O	1:A:35:PHE:HB3	2.17	0.45
1:A:121:ILE:HG13	1:A:122:PHE:N	2.31	0.45
1:B:32:ASP:O	1:B:35:PHE:HB3	2.17	0.45
1:B:250:GLN:OE1	1:B:337:LYS:N	2.49	0.45
1:B:673:GLN:HA	1:B:676:GLN:HB3	1.98	0.45
1:D:238:LYS:HD2	1:D:238:LYS:HA	1.49	0.45
1:E:32:ASP:O	1:E:35:PHE:HB3	2.17	0.45
1:E:399:ILE:HG22	1:E:400:PRO:O	2.16	0.45
1:F:766:ASP:N	1:F:766:ASP:OD1	2.48	0.45
1:G:496:ASP:HA	1:G:499:VAL:HG12	1.98	0.45
1:A:46:ARG:HB3	1:A:69:ASN:HB3	1.98	0.45
1:C:531:MET:O	1:C:536:PRO:HD3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:379:ASN:O	1:D:383:ILE:HG13	2.16	0.45
1:D:531:MET:O	1:D:536:PRO:HD3	2.17	0.45
1:D:746:ASN:HA	1:D:749:ARG:CD	2.46	0.45
1:F:185:ASP:N	1:F:185:ASP:OD1	2.50	0.45
1:F:717:PHE:HE2	1:F:839:GLN:OE1	1.99	0.45
1:G:532:GLN:O	1:G:535:GLN:NE2	2.47	0.45
1:H:22:GLU:O	1:H:25:THR:HG22	2.17	0.45
1:H:105:GLY:N	1:H:132:ASN:OD1	2.47	0.45
1:A:727:LYS:O	1:A:731:GLU:OE1	2.35	0.45
1:A:785:GLN:N	1:A:788:ASP:OD2	2.50	0.45
1:A:821:GLU:HB3	1:A:861:TYR:OH	2.16	0.45
1:B:531:MET:O	1:B:536:PRO:HD3	2.17	0.45
1:B:540:LEU:HD22	1:B:592:VAL:HB	1.98	0.45
1:B:785:GLN:N	1:B:788:ASP:OD2	2.50	0.45
1:C:785:GLN:N	1:C:788:ASP:OD2	2.50	0.45
1:D:453:LEU:CD2	1:E:464:ARG:NH2	2.79	0.45
1:E:379:ASN:O	1:E:383:ILE:HG13	2.16	0.45
1:E:523:VAL:HA	1:E:526:LYS:HZ2	1.82	0.45
1:E:574:ASP:HB2	1:E:575:ILE:H	1.63	0.45
1:E:804:LEU:HD12	1:E:804:LEU:HA	1.72	0.45
1:F:350:PHE:O	1:F:354:VAL:HG23	2.16	0.45
1:H:228:LYS:HG2	1:H:265:ARG:HH22	1.81	0.45
1:A:531:MET:O	1:A:536:PRO:HD3	2.17	0.45
1:B:350:PHE:O	1:B:354:VAL:HG23	2.16	0.45
1:C:45:ALA:C	1:C:48:PRO:HD2	2.37	0.45
1:C:448:ARG:HG3	1:D:398:ASN:HB2	1.98	0.45
1:C:727:LYS:O	1:C:731:GLU:OE1	2.35	0.45
1:D:45:ALA:C	1:D:48:PRO:HD2	2.37	0.45
1:D:185:ASP:OD1	1:D:185:ASP:N	2.50	0.45
1:D:523:VAL:HA	1:D:526:LYS:HZ2	1.82	0.45
1:D:540:LEU:HD22	1:D:592:VAL:HB	1.98	0.45
1:D:717:PHE:HE2	1:D:839:GLN:OE1	1.99	0.45
1:E:320:VAL:HA	1:E:342:LEU:O	2.17	0.45
1:F:591:LEU:O	1:F:629:GLN:NE2	2.50	0.45
1:G:753:ASN:HD22	1:G:846:ARG:NH1	2.14	0.45
1:H:447:LYS:HD2	1:H:447:LYS:HA	1.73	0.45
1:B:727:LYS:O	1:B:731:GLU:OE1	2.35	0.44
1:C:172:GLN:OE1	1:C:172:GLN:N	2.49	0.44
1:C:185:ASP:N	1:C:185:ASP:OD1	2.50	0.44
1:C:574:ASP:HB2	1:C:575:ILE:H	1.63	0.44
1:C:591:LEU:O	1:C:629:GLN:NE2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:620:PRO:O	1:C:621:LEU:HD13	2.18	0.44
1:D:458:PRO:HG2	1:D:604:VAL:HG23	1.98	0.44
1:D:635:ALA:O	1:D:636:ASN:C	2.56	0.44
1:D:766:ASP:N	1:D:766:ASP:OD1	2.48	0.44
1:F:453:LEU:HD23	1:G:464:ARG:CZ	2.47	0.44
1:H:228:LYS:CG	1:H:265:ARG:HH22	2.30	0.44
1:H:239:THR:HG21	1:H:270:LYS:HE2	1.99	0.44
1:A:620:PRO:O	1:A:621:LEU:HD13	2.18	0.44
1:B:591:LEU:O	1:B:629:GLN:NE2	2.50	0.44
1:B:785:GLN:HB3	1:B:788:ASP:OD1	2.16	0.44
1:C:70:HIS:CE1	1:C:74:GLU:OE2	2.69	0.44
1:C:250:GLN:OE1	1:C:337:LYS:N	2.49	0.44
1:C:638:VAL:O	1:C:639:MET:HE1	2.17	0.44
1:D:287:LEU:HG	1:D:290:GLY:HA2	1.99	0.44
1:E:454:TRP:CE2	1:E:578:ARG:NH1	2.86	0.44
1:E:742:LEU:HA	1:E:742:LEU:HD23	1.82	0.44
1:E:785:GLN:N	1:E:788:ASP:OD2	2.50	0.44
1:F:351:GLU:HG3	1:F:385:TYR:OH	2.18	0.44
1:F:531:MET:O	1:F:536:PRO:HD3	2.17	0.44
1:F:612:ASP:HB3	1:F:617:ALA:N	2.30	0.44
1:F:675:LEU:HD22	1:F:780:HIS:CE1	2.52	0.44
1:H:11:ALA:O	1:H:15:ARG:HG3	2.16	0.44
1:H:107:ILE:HA	1:H:189:LEU:O	2.17	0.44
1:H:254:VAL:HG11	1:H:259:TYR:HA	1.98	0.44
1:H:324:LEU:HD21	1:H:333:PHE:HB3	1.99	0.44
1:A:454:TRP:CE2	1:A:578:ARG:NH1	2.86	0.44
1:A:591:LEU:O	1:A:629:GLN:NE2	2.50	0.44
1:A:785:GLN:HB3	1:A:788:ASP:OD1	2.16	0.44
1:B:78:ASN:HD22	1:B:81:LYS:NZ	2.15	0.44
1:B:232:ALA:HA	1:B:235:LEU:CD1	2.38	0.44
1:B:351:GLU:HG3	1:B:385:TYR:OH	2.18	0.44
1:B:465:ARG:NH2	1:B:636:ASN:OD1	2.49	0.44
1:C:329:TYR:O	1:C:335:HIS:NE2	2.50	0.44
1:C:785:GLN:HB3	1:C:788:ASP:OD1	2.16	0.44
1:D:126:ILE:O	1:D:129:LYS:HB2	2.18	0.44
1:D:252:ALA:O	1:D:345:PHE:N	2.45	0.44
1:D:454:TRP:CE2	1:D:578:ARG:NH1	2.86	0.44
1:E:591:LEU:O	1:E:629:GLN:NE2	2.50	0.44
1:E:692:GLY:HA3	1:E:699:ARG:HH11	1.81	0.44
1:E:806:VAL:HG23	1:E:812:LYS:HZ2	1.82	0.44
1:G:487:ARG:N	1:G:513:PHE:O	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:139:HIS:O	1:H:143:LYS:HB2	2.17	0.44
1:H:301:ALA:HB2	1:H:317:LYS:O	2.18	0.44
1:A:612:ASP:HB3	1:A:617:ALA:N	2.30	0.44
1:B:304:ILE:HA	1:B:307:MET:HG3	1.99	0.44
1:C:454:TRP:CE2	1:C:578:ARG:NH1	2.86	0.44
1:C:611:THR:HG22	1:C:616:GLY:HA2	1.99	0.44
1:C:635:ALA:O	1:C:636:ASN:C	2.56	0.44
1:D:329:TYR:O	1:D:335:HIS:NE2	2.50	0.44
1:E:45:ALA:C	1:E:48:PRO:HD2	2.37	0.44
1:E:635:ALA:O	1:E:636:ASN:C	2.56	0.44
1:E:717:PHE:HE2	1:E:839:GLN:OE1	1.99	0.44
1:E:758:LYS:HZ1	1:E:846:ARG:NH1	2.15	0.44
1:F:227:ILE:HG13	1:F:228:LYS:N	2.33	0.44
1:G:659:GLU:OE1	1:G:718:LEU:HA	2.16	0.44
1:A:88:ILE:HD12	1:A:100:ILE:HG22	2.00	0.44
1:A:287:LEU:HG	1:A:290:GLY:HA2	1.99	0.44
1:B:45:ALA:C	1:B:48:PRO:HD2	2.37	0.44
1:B:185:ASP:OD1	1:B:185:ASP:N	2.50	0.44
1:B:454:TRP:CE2	1:B:578:ARG:NH1	2.86	0.44
1:B:675:LEU:HD22	1:B:780:HIS:CE1	2.53	0.44
1:B:723:SER:HB2	1:B:838:ASP:OD2	2.18	0.44
1:C:570:MET:HE3	1:C:570:MET:HA	2.00	0.44
1:D:261:GLU:HA	1:D:264:GLU:OE2	2.18	0.44
1:D:320:VAL:HA	1:D:342:LEU:O	2.17	0.44
1:E:460:SER:OG	1:E:629:GLN:O	2.36	0.44
1:E:791:ALA:O	1:E:795:GLU:HG2	2.18	0.44
1:E:800:TRP:O	1:E:804:LEU:HB2	2.18	0.44
1:F:88:ILE:HD12	1:F:100:ILE:HG22	2.00	0.44
1:F:320:VAL:HA	1:F:342:LEU:O	2.17	0.44
1:A:22:GLU:OE1	1:A:22:GLU:N	2.51	0.44
1:A:185:ASP:N	1:A:185:ASP:OD1	2.50	0.44
1:A:227:ILE:HG13	1:A:228:LYS:N	2.33	0.44
1:A:769:GLN:OE1	1:A:770:ALA:N	2.51	0.44
1:C:22:GLU:OE1	1:C:22:GLU:N	2.51	0.44
1:C:88:ILE:HD12	1:C:100:ILE:HG22	2.00	0.44
1:D:723:SER:HB2	1:D:838:ASP:OD2	2.18	0.44
1:E:652:ASP:OD1	1:E:656:HIS:NE2	2.51	0.44
1:F:78:ASN:HD22	1:F:81:LYS:NZ	2.15	0.44
1:F:287:LEU:HG	1:F:290:GLY:HA2	1.99	0.44
1:F:379:ASN:O	1:F:383:ILE:HG13	2.16	0.44
1:F:611:THR:HG22	1:F:616:GLY:HA2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:620:PRO:O	1:F:621:LEU:HD13	2.18	0.44
1:F:723:SER:HB2	1:F:838:ASP:OD2	2.18	0.44
1:G:700:GLU:OE1	1:G:700:GLU:N	2.48	0.44
1:A:107:ILE:HA	1:A:189:LEU:O	2.18	0.44
1:A:232:ALA:HA	1:A:235:LEU:CD1	2.38	0.44
1:A:791:ALA:O	1:A:795:GLU:HG2	2.18	0.44
1:B:320:VAL:HA	1:B:342:LEU:O	2.17	0.44
1:B:611:THR:HG22	1:B:616:GLY:HA2	1.99	0.44
1:C:107:ILE:HA	1:C:189:LEU:O	2.18	0.44
1:C:126:ILE:O	1:C:129:LYS:HB2	2.18	0.44
1:C:717:PHE:HE2	1:C:839:GLN:OE1	1.99	0.44
1:C:723:SER:HB2	1:C:838:ASP:OD2	2.18	0.44
1:C:769:GLN:OE1	1:C:770:ALA:N	2.51	0.44
1:C:774:TYR:O	1:C:797:LEU:HD11	2.17	0.44
1:C:829:ASP:OD1	1:C:854:LYS:NZ	2.35	0.44
1:D:82:ASP:OD1	1:D:82:ASP:N	2.51	0.44
1:D:425:TRP:HD1	1:D:426:GLY:CA	2.31	0.44
1:E:229:ARG:H	1:E:229:ARG:HG2	1.58	0.44
1:E:270:LYS:O	1:E:316:THR:OG1	2.21	0.44
1:E:351:GLU:HG3	1:E:385:TYR:OH	2.18	0.44
1:E:769:GLN:OE1	1:E:770:ALA:N	2.51	0.44
1:E:774:TYR:O	1:E:797:LEU:HD11	2.17	0.44
1:F:189:LEU:HD11	1:F:208:PRO:HB2	2.00	0.44
1:F:635:ALA:O	1:F:636:ASN:C	2.56	0.44
1:F:785:GLN:N	1:F:788:ASP:OD2	2.50	0.44
1:G:654:VAL:O	1:G:658:LEU:HD23	2.18	0.44
1:G:662:VAL:HA	1:G:773:ARG:NE	2.31	0.44
1:A:208:PRO:HG3	1:B:424:SER:CB	2.48	0.44
1:A:329:TYR:O	1:A:335:HIS:NE2	2.50	0.44
1:A:635:ALA:O	1:A:636:ASN:C	2.56	0.44
1:A:664:VAL:HG12	1:A:843:ALA:HB1	2.00	0.44
1:A:774:TYR:O	1:A:797:LEU:HD11	2.17	0.44
1:B:329:TYR:O	1:B:335:HIS:NE2	2.50	0.44
1:B:425:TRP:HD1	1:B:426:GLY:CA	2.31	0.44
1:B:436:PRO:HD2	1:B:437:LYS:HZ2	1.83	0.44
1:B:710:GLY:HA2	1:B:713:PHE:CE1	2.53	0.44
1:C:320:VAL:HA	1:C:342:LEU:O	2.17	0.44
1:C:791:ALA:O	1:C:795:GLU:HG2	2.18	0.44
1:C:800:TRP:O	1:C:804:LEU:HB2	2.18	0.44
1:D:461:ILE:CD1	1:E:669:TYR:CE1	3.01	0.44
1:D:463:PHE:CE2	1:E:453:LEU:HD11	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:774:TYR:O	1:D:797:LEU:HD11	2.17	0.44
1:D:800:TRP:O	1:D:804:LEU:HB2	2.18	0.44
1:E:318:VAL:HG22	1:E:340:PRO:C	2.39	0.44
1:E:531:MET:O	1:E:536:PRO:HD3	2.17	0.44
1:E:710:GLY:HA2	1:E:713:PHE:CE1	2.53	0.44
1:E:727:LYS:O	1:E:731:GLU:OE1	2.35	0.44
1:F:425:TRP:HD1	1:F:426:GLY:CA	2.31	0.44
1:A:551:ALA:O	1:A:555:TRP:N	2.34	0.44
1:B:113:THR:O	1:B:116:PRO:HD3	2.18	0.44
1:B:261:GLU:HA	1:B:264:GLU:OE2	2.18	0.44
1:B:774:TYR:O	1:B:797:LEU:HD11	2.17	0.44
1:C:227:ILE:HG13	1:C:228:LYS:N	2.33	0.44
1:C:442:LYS:HD3	1:C:442:LYS:HA	1.35	0.44
1:C:675:LEU:HD22	1:C:780:HIS:CE1	2.53	0.44
1:C:710:GLY:HA2	1:C:713:PHE:CE1	2.53	0.44
1:D:720:VAL:O	1:D:724:MET:HB3	2.18	0.44
1:E:540:LEU:HD22	1:E:592:VAL:HB	1.98	0.44
1:E:675:LEU:HD22	1:E:780:HIS:CE1	2.53	0.44
1:F:232:ALA:CA	1:F:235:LEU:HD12	2.38	0.44
1:F:727:LYS:O	1:F:731:GLU:OE1	2.35	0.44
1:F:769:GLN:OE1	1:F:770:ALA:N	2.51	0.44
1:G:664:VAL:HG12	1:G:843:ALA:HB1	2.00	0.44
1:G:755:ASN:N	1:G:756:PRO:HD3	2.33	0.44
1:H:410:TYR:HA	1:H:411:ASN:HA	1.51	0.44
1:A:45:ALA:C	1:A:48:PRO:HD2	2.37	0.43
1:A:113:THR:O	1:A:116:PRO:HD3	2.18	0.43
1:A:238:LYS:HD2	1:A:238:LYS:HA	1.50	0.43
1:A:311:LYS:C	1:A:311:LYS:HD3	2.39	0.43
1:A:611:THR:HG22	1:A:616:GLY:HA2	2.00	0.43
1:A:723:SER:HB2	1:A:838:ASP:OD2	2.18	0.43
1:B:11:ALA:O	1:B:15:ARG:HG3	2.19	0.43
1:B:78:ASN:HA	1:B:81:LYS:NZ	2.33	0.43
1:B:107:ILE:HA	1:B:189:LEU:O	2.18	0.43
1:B:311:LYS:C	1:B:311:LYS:HD3	2.39	0.43
1:B:339:SER:O	1:B:341:THR:N	2.42	0.43
1:B:495:ALA:O	1:B:499:VAL:HG12	2.18	0.43
1:B:800:TRP:O	1:B:804:LEU:HB2	2.18	0.43
1:C:652:ASP:OD1	1:C:656:HIS:NE2	2.51	0.43
1:D:311:LYS:C	1:D:311:LYS:HD3	2.39	0.43
1:D:442:LYS:HD3	1:D:442:LYS:HA	1.35	0.43
1:D:591:LEU:O	1:D:629:GLN:NE2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:329:TYR:O	1:E:335:HIS:NE2	2.50	0.43
1:E:425:TRP:HD1	1:E:426:GLY:CA	2.31	0.43
1:E:766:ASP:OD1	1:E:766:ASP:N	2.48	0.43
1:F:113:THR:O	1:F:116:PRO:HD3	2.18	0.43
1:F:126:ILE:O	1:F:129:LYS:HB2	2.18	0.43
1:F:167:ILE:HG12	1:F:167:ILE:H	1.71	0.43
1:F:329:TYR:O	1:F:335:HIS:NE2	2.50	0.43
1:F:454:TRP:CE2	1:F:578:ARG:NH1	2.86	0.43
1:F:652:ASP:OD1	1:F:656:HIS:NE2	2.51	0.43
1:G:789:ARG:O	1:G:793:LYS:HG3	2.17	0.43
1:H:110:ILE:HD12	1:H:192:ALA:HB2	2.00	0.43
1:B:189:LEU:HD11	1:B:208:PRO:HB2	2.00	0.43
1:B:234:ILE:HA	1:B:237:SER:OG	2.18	0.43
1:B:287:LEU:HG	1:B:290:GLY:HA2	1.98	0.43
1:B:453:LEU:HG	1:C:463:PHE:CZ	2.53	0.43
1:B:664:VAL:HG12	1:B:843:ALA:HB1	2.00	0.43
1:B:720:VAL:O	1:B:724:MET:HB3	2.18	0.43
1:C:720:VAL:O	1:C:724:MET:HB3	2.18	0.43
1:D:89:LEU:HA	1:D:89:LEU:HD13	1.42	0.43
1:D:531:MET:SD	1:D:558:TYR:HB2	2.59	0.43
1:D:638:VAL:O	1:D:639:MET:HE1	2.17	0.43
1:D:652:ASP:OD1	1:D:656:HIS:NE2	2.51	0.43
1:D:769:GLN:OE1	1:D:770:ALA:N	2.51	0.43
1:E:82:ASP:OD1	1:E:82:ASP:N	2.51	0.43
1:E:287:LEU:HG	1:E:290:GLY:HA2	1.99	0.43
1:E:564:HIS:CG	1:E:565:PHE:H	2.37	0.43
1:E:620:PRO:O	1:E:621:LEU:HD13	2.18	0.43
1:F:189:LEU:CD1	1:F:208:PRO:HB2	2.48	0.43
1:F:261:GLU:HA	1:F:264:GLU:OE2	2.18	0.43
1:F:710:GLY:HA2	1:F:713:PHE:CE1	2.53	0.43
1:A:82:ASP:OD1	1:A:82:ASP:N	2.51	0.43
1:A:189:LEU:HD11	1:A:208:PRO:HB2	2.00	0.43
1:A:304:ILE:HA	1:A:307:MET:HG3	1.99	0.43
1:A:495:ALA:O	1:A:499:VAL:HG12	2.18	0.43
1:A:652:ASP:OD1	1:A:656:HIS:NE2	2.51	0.43
1:A:675:LEU:HD22	1:A:780:HIS:CE1	2.53	0.43
1:A:800:TRP:O	1:A:804:LEU:HB2	2.18	0.43
1:B:296:ILE:H	1:B:296:ILE:HG12	1.49	0.43
1:B:460:SER:OG	1:B:629:GLN:O	2.36	0.43
1:B:469:PRO:O	1:B:473:SER:OG	2.27	0.43
1:B:508:GLU:O	1:B:508:GLU:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:620:PRO:O	1:B:621:LEU:HD13	2.18	0.43
1:B:652:ASP:OD1	1:B:656:HIS:NE2	2.51	0.43
1:C:89:LEU:HA	1:C:89:LEU:HD13	1.42	0.43
1:C:304:ILE:HA	1:C:307:MET:HG3	1.99	0.43
1:C:758:LYS:HZ1	1:C:846:ARG:NH1	2.16	0.43
1:D:22:GLU:OE1	1:D:22:GLU:N	2.51	0.43
1:D:167:ILE:HG12	1:D:167:ILE:H	1.71	0.43
1:D:227:ILE:HG13	1:D:228:LYS:N	2.33	0.43
1:D:229:ARG:H	1:D:229:ARG:HG2	1.57	0.43
1:D:304:ILE:HA	1:D:307:MET:HG3	1.99	0.43
1:D:459:LYS:HZ1	1:D:629:GLN:HB2	1.83	0.43
1:D:727:LYS:O	1:D:731:GLU:OE1	2.35	0.43
1:D:791:ALA:O	1:D:795:GLU:HG2	2.18	0.43
1:D:859:ALA:HA	1:D:864:LYS:HB2	2.01	0.43
1:E:113:THR:O	1:E:116:PRO:HD3	2.18	0.43
1:E:126:ILE:O	1:E:129:LYS:HB2	2.18	0.43
1:E:531:MET:SD	1:E:558:TYR:HB2	2.59	0.43
1:E:720:VAL:O	1:E:724:MET:HB3	2.18	0.43
1:F:45:ALA:C	1:F:48:PRO:HD2	2.37	0.43
1:F:495:ALA:O	1:F:499:VAL:HG12	2.18	0.43
1:F:774:TYR:O	1:F:797:LEU:HD11	2.17	0.43
1:A:78:ASN:HA	1:A:81:LYS:NZ	2.34	0.43
1:A:167:ILE:HG12	1:A:167:ILE:H	1.71	0.43
1:A:234:ILE:HA	1:A:237:SER:OG	2.18	0.43
1:A:846:ARG:HG2	1:A:847:TYR:O	2.19	0.43
1:B:766:ASP:HB2	1:B:767:ARG:NH2	2.34	0.43
1:C:351:GLU:HG3	1:C:385:TYR:OH	2.18	0.43
1:C:859:ALA:HA	1:C:864:LYS:HB2	2.00	0.43
1:D:311:LYS:HD3	1:D:312:VAL:N	2.34	0.43
1:D:351:GLU:HG3	1:D:385:TYR:OH	2.18	0.43
1:D:460:SER:OG	1:D:629:GLN:O	2.36	0.43
1:D:720:VAL:HA	1:D:840:CYS:HB3	2.01	0.43
1:E:285:VAL:HG23	1:E:293:ASN:HD22	1.84	0.43
1:E:311:LYS:C	1:E:311:LYS:HD3	2.39	0.43
1:F:311:LYS:HD3	1:F:312:VAL:N	2.34	0.43
1:F:453:LEU:N	1:G:464:ARG:HH22	2.17	0.43
1:F:467:SER:O	1:F:471:ALA:N	2.45	0.43
1:F:664:VAL:HG12	1:F:843:ALA:HB1	2.00	0.43
1:G:485:THR:O	1:G:515:VAL:HG12	2.17	0.43
1:G:487:ARG:HA	1:G:513:PHE:HB2	2.01	0.43
1:H:265:ARG:HD2	1:H:265:ARG:HA	1.69	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:324:LEU:HB3	1:H:345:PHE:CE1	2.53	0.43
1:H:326:LYS:HE3	1:H:326:LYS:HB3	1.87	0.43
1:A:261:GLU:HA	1:A:264:GLU:OE2	2.18	0.43
1:A:710:GLY:HA2	1:A:713:PHE:CE1	2.53	0.43
1:B:126:ILE:O	1:B:129:LYS:HB2	2.18	0.43
1:B:238:LYS:HD2	1:B:238:LYS:HA	1.50	0.43
1:B:311:LYS:HD3	1:B:312:VAL:N	2.34	0.43
1:C:82:ASP:OD1	1:C:82:ASP:N	2.51	0.43
1:C:189:LEU:HD11	1:C:208:PRO:HB2	2.00	0.43
1:C:234:ILE:HA	1:C:237:SER:OG	2.18	0.43
1:C:436:PRO:HD2	1:C:437:LYS:HZ2	1.83	0.43
1:C:443:LYS:HD3	1:C:443:LYS:HA	1.51	0.43
1:D:564:HIS:CG	1:D:565:PHE:H	2.37	0.43
1:E:11:ALA:O	1:E:15:ARG:HG3	2.18	0.43
1:F:720:VAL:O	1:F:724:MET:HB3	2.18	0.43
1:F:846:ARG:HG2	1:F:847:TYR:O	2.19	0.43
1:G:553:ILE:O	1:G:556:VAL:HG22	2.19	0.43
1:G:692:GLY:HA3	1:G:699:ARG:HH11	1.84	0.43
1:G:736:HIS:CD2	1:G:737:GLY:H	2.36	0.43
1:H:373:TYR:CE2	1:H:398:ASN:HA	2.54	0.43
1:H:419:THR:O	1:H:433:ASN:HA	2.19	0.43
1:A:126:ILE:O	1:A:129:LYS:HB2	2.18	0.43
1:A:320:VAL:HA	1:A:342:LEU:O	2.17	0.43
1:A:460:SER:OG	1:A:629:GLN:O	2.36	0.43
1:A:576:ARG:NE	1:B:408:ASP:H	2.17	0.43
1:B:88:ILE:HD12	1:B:100:ILE:HG22	2.00	0.43
1:B:635:ALA:O	1:B:636:ASN:C	2.56	0.43
1:B:859:ALA:HA	1:B:864:LYS:HB2	2.00	0.43
1:C:113:THR:O	1:C:116:PRO:HD3	2.18	0.43
1:C:287:LEU:HG	1:C:290:GLY:HA2	1.99	0.43
1:C:289:ASP:OD1	1:C:289:ASP:N	2.46	0.43
1:C:531:MET:SD	1:C:558:TYR:HB2	2.59	0.43
1:C:766:ASP:HB2	1:C:767:ARG:NH2	2.34	0.43
1:D:189:LEU:CD1	1:D:208:PRO:HB2	2.49	0.43
1:D:296:ILE:H	1:D:296:ILE:HG12	1.49	0.43
1:D:675:LEU:HD22	1:D:780:HIS:CE1	2.53	0.43
1:D:764:GLN:OE1	1:D:764:GLN:N	2.48	0.43
1:D:805:LYS:HG3	1:D:812:LYS:NZ	2.34	0.43
1:E:107:ILE:HA	1:E:189:LEU:O	2.18	0.43
1:E:189:LEU:HD11	1:E:208:PRO:HB2	2.00	0.43
1:E:230:ALA:HB2	1:E:373:TYR:CD1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:611:THR:HG22	1:E:616:GLY:HA2	1.99	0.43
1:E:679:LYS:HE2	1:E:780:HIS:CE1	2.54	0.43
1:E:766:ASP:HB2	1:E:767:ARG:NH2	2.34	0.43
1:E:859:ALA:HA	1:E:864:LYS:HB2	2.01	0.43
1:F:800:TRP:O	1:F:804:LEU:HB2	2.18	0.43
1:H:185:ASP:OD1	1:H:185:ASP:N	2.50	0.43
1:H:216:ASN:HD21	1:H:363:ILE:HB	1.83	0.43
1:A:351:GLU:HG3	1:A:385:TYR:OH	2.18	0.43
1:A:354:VAL:HG21	1:A:385:TYR:HE2	1.84	0.43
1:A:508:GLU:O	1:A:508:GLU:HG2	2.18	0.43
1:A:720:VAL:O	1:A:724:MET:HB3	2.18	0.43
1:B:467:SER:O	1:B:471:ALA:N	2.45	0.43
1:B:531:MET:SD	1:B:558:TYR:HB2	2.59	0.43
1:B:791:ALA:O	1:B:795:GLU:HG2	2.18	0.43
1:C:643:LYS:HA	1:C:644:SER:HA	1.65	0.43
1:D:52:MET:HA	1:D:55:GLU:CG	2.48	0.43
1:D:113:THR:O	1:D:116:PRO:HD3	2.18	0.43
1:D:230:ALA:HB2	1:D:373:TYR:CD1	2.54	0.43
1:D:303:ALA:O	1:D:307:MET:HB3	2.19	0.43
1:D:318:VAL:HG22	1:D:340:PRO:C	2.38	0.43
1:D:508:GLU:O	1:D:508:GLU:HG2	2.19	0.43
1:D:620:PRO:O	1:D:621:LEU:HD13	2.18	0.43
1:D:704:ASN:O	1:D:707:THR:OG1	2.27	0.43
1:D:846:ARG:HG2	1:D:847:TYR:O	2.19	0.43
1:E:227:ILE:HG13	1:E:228:LYS:N	2.33	0.43
1:E:723:SER:HB2	1:E:838:ASP:OD2	2.18	0.43
1:E:768:PRO:HB2	1:E:772:ARG:CZ	2.49	0.43
1:F:508:GLU:HG2	1:F:508:GLU:O	2.19	0.43
1:F:531:MET:SD	1:F:558:TYR:HB2	2.59	0.43
1:F:791:ALA:O	1:F:795:GLU:HG2	2.18	0.43
1:G:575:ILE:HG22	1:G:576:ARG:H	1.83	0.43
1:G:582:PHE:CD2	1:G:583:PRO:HD2	2.54	0.43
1:H:72:ALA:O	1:H:76:ILE:HG12	2.19	0.43
1:H:368:HIS:ND1	1:H:369:THR:HG23	2.34	0.43
1:A:11:ALA:O	1:A:15:ARG:HG3	2.18	0.43
1:A:311:LYS:HD3	1:A:312:VAL:N	2.34	0.43
1:A:742:LEU:HD23	1:A:742:LEU:HA	1.82	0.43
1:B:303:ALA:O	1:B:307:MET:HB3	2.19	0.43
1:B:318:VAL:HG22	1:B:340:PRO:C	2.38	0.43
1:B:564:HIS:CG	1:B:565:PHE:H	2.37	0.43
1:B:679:LYS:HE2	1:B:780:HIS:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:764:GLN:OE1	1:B:764:GLN:N	2.49	0.43
1:B:837:ASP:OD1	1:B:837:ASP:N	2.51	0.43
1:C:232:ALA:HA	1:C:235:LEU:CD1	2.38	0.43
1:C:679:LYS:HE2	1:C:780:HIS:CE1	2.54	0.43
1:D:285:VAL:HG23	1:D:293:ASN:HD22	1.84	0.43
1:D:354:VAL:HG21	1:D:385:TYR:HE2	1.84	0.43
1:D:406:ILE:HG12	1:D:410:TYR:CE2	2.54	0.43
1:D:710:GLY:HA2	1:D:713:PHE:CE1	2.53	0.43
1:E:234:ILE:HA	1:E:237:SER:OG	2.18	0.43
1:E:289:ASP:OD1	1:E:289:ASP:N	2.46	0.43
1:E:354:VAL:HG21	1:E:385:TYR:HE2	1.84	0.43
1:E:576:ARG:NE	1:F:408:ASP:CG	2.72	0.43
1:F:234:ILE:HA	1:F:237:SER:OG	2.18	0.43
1:F:285:VAL:HG23	1:F:293:ASN:HD22	1.84	0.43
1:F:460:SER:OG	1:F:629:GLN:O	2.36	0.43
1:F:720:VAL:HA	1:F:840:CYS:HB3	2.01	0.43
1:G:545:GLY:H	1:G:548:MET:CE	2.31	0.43
1:G:788:ASP:CA	1:G:792:GLN:HE21	2.28	0.43
1:H:176:GLU:HG3	1:H:177:LEU:N	2.34	0.43
1:A:189:LEU:CD1	1:A:208:PRO:HB2	2.49	0.43
1:A:230:ALA:HB2	1:A:373:TYR:CD1	2.54	0.43
1:A:467:SER:O	1:A:471:ALA:N	2.45	0.43
1:A:480:ARG:N	1:A:537:ASP:OD2	2.33	0.43
1:A:564:HIS:CG	1:A:565:PHE:H	2.37	0.43
1:A:679:LYS:HE2	1:A:780:HIS:CE1	2.54	0.43
1:A:764:GLN:OE1	1:A:764:GLN:N	2.49	0.43
1:A:768:PRO:HB2	1:A:772:ARG:CZ	2.49	0.43
1:B:82:ASP:OD1	1:B:82:ASP:N	2.51	0.43
1:B:574:ASP:HB2	1:B:575:ILE:H	1.63	0.43
1:B:704:ASN:O	1:B:707:THR:OG1	2.27	0.43
1:B:758:LYS:HZ1	1:B:846:ARG:NH1	2.16	0.43
1:C:78:ASN:HA	1:C:81:LYS:NZ	2.33	0.43
1:C:285:VAL:HG23	1:C:293:ASN:HD22	1.84	0.43
1:E:88:ILE:HD12	1:E:100:ILE:HG22	2.00	0.43
1:E:495:ALA:O	1:E:499:VAL:HG12	2.18	0.43
1:F:82:ASP:OD1	1:F:82:ASP:N	2.51	0.43
1:F:270:LYS:O	1:F:316:THR:OG1	2.21	0.43
1:F:679:LYS:HE2	1:F:780:HIS:CE1	2.54	0.43
1:F:768:PRO:HB2	1:F:772:ARG:CZ	2.49	0.43
1:G:522:SER:HA	1:G:525:GLU:OE2	2.19	0.43
1:G:700:GLU:HG2	1:G:701:LYS:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:318:VAL:HG22	1:A:340:PRO:C	2.38	0.43
1:A:559:GLU:O	1:A:587:LYS:HE3	2.19	0.43
1:A:754:ASP:HB3	1:A:771:ARG:NH1	2.34	0.43
1:A:859:ALA:HA	1:A:864:LYS:HB2	2.00	0.43
1:B:29:GLU:OE1	1:B:29:GLU:N	2.48	0.43
1:B:227:ILE:HG13	1:B:228:LYS:N	2.33	0.43
1:B:559:GLU:O	1:B:587:LYS:HE3	2.19	0.43
1:B:728:ILE:HG12	1:B:728:ILE:H	1.37	0.43
1:B:759:GLN:HB3	1:B:847:TYR:CB	2.49	0.43
1:B:768:PRO:HB2	1:B:772:ARG:CZ	2.49	0.43
1:C:11:ALA:O	1:C:15:ARG:HG3	2.18	0.43
1:C:49:LEU:H	1:C:49:LEU:HG	1.63	0.43
1:C:261:GLU:HA	1:C:264:GLU:OE2	2.18	0.43
1:C:311:LYS:HD3	1:C:312:VAL:N	2.34	0.43
1:C:318:VAL:HG22	1:C:340:PRO:C	2.39	0.43
1:C:495:ALA:O	1:C:499:VAL:HG12	2.18	0.43
1:D:574:ASP:HB2	1:D:575:ILE:H	1.63	0.43
1:D:759:GLN:HB3	1:D:847:TYR:CB	2.49	0.43
1:E:559:GLU:O	1:E:587:LYS:HE3	2.19	0.43
1:F:22:GLU:OE1	1:F:22:GLU:N	2.51	0.43
1:F:303:ALA:O	1:F:307:MET:HB3	2.19	0.43
1:F:859:ALA:HA	1:F:864:LYS:HB2	2.00	0.43
1:G:521:LEU:HG	1:G:610:VAL:HG22	2.00	0.43
1:G:758:LYS:NZ	1:G:846:ARG:HD2	2.34	0.43
1:H:259:TYR:CD1	1:H:346:ARG:HD3	2.54	0.43
1:H:403:HIS:NE2	1:H:416:PRO:HA	2.34	0.43
1:A:285:VAL:HG23	1:A:293:ASN:HD22	1.84	0.42
1:A:692:GLY:HA3	1:A:699:ARG:HH11	1.81	0.42
1:A:720:VAL:HA	1:A:840:CYS:HB3	2.01	0.42
1:A:766:ASP:HB2	1:A:767:ARG:NH2	2.34	0.42
1:B:189:LEU:CD1	1:B:208:PRO:HB2	2.48	0.42
1:B:242:ASN:CB	1:B:298:GLY:HA2	2.49	0.42
1:B:638:VAL:O	1:B:639:MET:HE1	2.19	0.42
1:B:720:VAL:HA	1:B:840:CYS:HB3	2.01	0.42
1:C:129:LYS:HD2	1:C:129:LYS:HA	1.45	0.42
1:C:189:LEU:CD1	1:C:208:PRO:HB2	2.49	0.42
1:C:460:SER:OG	1:C:629:GLN:O	2.36	0.42
1:C:559:GLU:O	1:C:587:LYS:HE3	2.19	0.42
1:C:569:ALA:HA	1:C:621:LEU:CD1	2.43	0.42
1:C:664:VAL:HG12	1:C:843:ALA:HB1	2.00	0.42
1:C:846:ARG:HG2	1:C:847:TYR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3:VAL:CG1	1:D:170:ILE:HA	2.49	0.42
1:D:11:ALA:O	1:D:15:ARG:HG3	2.18	0.42
1:D:88:ILE:HD12	1:D:100:ILE:HG22	2.00	0.42
1:D:285:VAL:HG23	1:D:293:ASN:ND2	2.34	0.42
1:D:516:GLU:OE1	1:D:518:ASP:N	2.37	0.42
1:E:22:GLU:OE1	1:E:22:GLU:N	2.51	0.42
1:E:303:ALA:O	1:E:307:MET:HB3	2.19	0.42
1:E:638:VAL:O	1:E:639:MET:HE1	2.19	0.42
1:F:107:ILE:HA	1:F:189:LEU:O	2.18	0.42
1:F:242:ASN:CB	1:F:298:GLY:HA2	2.49	0.42
1:F:311:LYS:HD3	1:F:311:LYS:C	2.39	0.42
1:F:406:ILE:HG12	1:F:410:TYR:CE2	2.54	0.42
1:F:483:LEU:CB	1:F:511:THR:HA	2.48	0.42
1:F:645:LEU:HA	1:F:648:PHE:CD2	2.54	0.42
1:F:731:GLU:OE2	1:F:831:LEU:HD11	2.19	0.42
1:H:84:LYS:NZ	1:H:86:CYS:O	2.41	0.42
1:H:406:ILE:HG21	1:H:406:ILE:HD13	1.78	0.42
1:A:100:ILE:CG1	1:A:443:LYS:HB2	2.49	0.42
1:A:281:LYS:NZ	1:A:309:GLY:O	2.40	0.42
1:A:285:VAL:HG23	1:A:293:ASN:ND2	2.34	0.42
1:A:303:ALA:O	1:A:307:MET:HB3	2.19	0.42
1:A:731:GLU:OE2	1:A:831:LEU:HD11	2.19	0.42
1:A:758:LYS:HZ1	1:A:846:ARG:NH1	2.16	0.42
1:B:354:VAL:HG21	1:B:385:TYR:HE2	1.84	0.42
1:B:518:ASP:OD2	1:B:611:THR:OG1	2.18	0.42
1:B:558:TYR:CZ	1:B:588:LYS:HE3	2.55	0.42
1:B:645:LEU:HA	1:B:648:PHE:CD2	2.54	0.42
1:B:754:ASP:HB3	1:B:771:ARG:NH1	2.34	0.42
1:B:805:LYS:HG3	1:B:812:LYS:NZ	2.33	0.42
1:C:240:PHE:O	1:C:243:GLY:N	2.50	0.42
1:C:564:HIS:CG	1:C:565:PHE:H	2.37	0.42
1:C:759:GLN:HB3	1:C:847:TYR:CB	2.49	0.42
1:C:797:LEU:O	1:C:800:TRP:HB3	2.19	0.42
1:E:189:LEU:CD1	1:E:208:PRO:HB2	2.49	0.42
1:E:483:LEU:HA	1:E:483:LEU:HD12	1.70	0.42
1:E:508:GLU:HG2	1:E:508:GLU:O	2.19	0.42
1:E:569:ALA:HA	1:E:621:LEU:CD1	2.43	0.42
1:E:731:GLU:OE2	1:E:831:LEU:HD11	2.19	0.42
1:E:764:GLN:OE1	1:E:764:GLN:N	2.49	0.42
1:E:805:LYS:HG3	1:E:812:LYS:NZ	2.34	0.42
1:E:846:ARG:HG2	1:E:847:TYR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:643:LYS:HA	1:F:644:SER:HA	1.65	0.42
1:F:754:ASP:HB3	1:F:771:ARG:NH1	2.34	0.42
1:G:639:MET:HA	1:G:699:ARG:HE	1.83	0.42
1:H:13:VAL:HG11	1:H:184:HIS:CE1	2.54	0.42
1:A:406:ILE:HG12	1:A:410:TYR:CE2	2.54	0.42
1:A:759:GLN:HE21	1:A:759:GLN:HB2	1.69	0.42
1:B:89:LEU:HD13	1:B:89:LEU:HA	1.42	0.42
1:B:406:ILE:HG12	1:B:410:TYR:CE2	2.54	0.42
1:B:584:LYS:N	1:B:585:MET:HE3	2.34	0.42
1:B:769:GLN:OE1	1:B:770:ALA:N	2.51	0.42
1:B:797:LEU:O	1:B:800:TRP:HB3	2.19	0.42
1:C:285:VAL:HG23	1:C:293:ASN:ND2	2.35	0.42
1:C:311:LYS:HD3	1:C:311:LYS:C	2.39	0.42
1:C:354:VAL:HG21	1:C:385:TYR:HE2	1.84	0.42
1:C:425:TRP:HD1	1:C:426:GLY:CA	2.31	0.42
1:C:720:VAL:HG11	1:C:844:ASN:HD22	1.85	0.42
1:C:805:LYS:HG3	1:C:812:LYS:NZ	2.34	0.42
1:D:495:ALA:O	1:D:499:VAL:HG12	2.18	0.42
1:D:558:TYR:CZ	1:D:588:LYS:HE3	2.55	0.42
1:D:731:GLU:OE2	1:D:831:LEU:HD11	2.19	0.42
1:D:754:ASP:HB3	1:D:771:ARG:NH1	2.34	0.42
1:D:766:ASP:HB2	1:D:767:ARG:NH2	2.34	0.42
1:E:100:ILE:CG1	1:E:443:LYS:HB2	2.49	0.42
1:E:558:TYR:CZ	1:E:588:LYS:HE3	2.55	0.42
1:F:285:VAL:HG23	1:F:293:ASN:ND2	2.34	0.42
1:F:678:LEU:HD23	1:F:678:LEU:HA	1.84	0.42
1:F:720:VAL:HG11	1:F:844:ASN:HD22	1.85	0.42
1:G:815:GLN:HB3	1:G:861:TYR:CE2	2.54	0.42
1:H:269:HIS:CG	1:H:270:LYS:N	2.87	0.42
1:A:425:TRP:HD1	1:A:426:GLY:CA	2.31	0.42
1:A:645:LEU:HA	1:A:648:PHE:CD2	2.54	0.42
1:B:40:LEU:O	1:B:43:ASN:HB3	2.20	0.42
1:B:285:VAL:HG23	1:B:293:ASN:ND2	2.34	0.42
1:B:703:HIS:O	1:B:707:THR:HG23	2.20	0.42
1:C:645:LEU:HA	1:C:648:PHE:CD2	2.54	0.42
1:C:804:LEU:HD12	1:C:804:LEU:HA	1.72	0.42
1:D:78:ASN:HA	1:D:81:LYS:NZ	2.33	0.42
1:D:107:ILE:HA	1:D:189:LEU:O	2.18	0.42
1:D:483:LEU:HD12	1:D:483:LEU:HA	1.70	0.42
1:E:78:ASN:HA	1:E:81:LYS:NZ	2.33	0.42
1:E:96:GLY:HA3	1:E:447:LYS:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:261:GLU:HA	1:E:264:GLU:OE2	2.18	0.42
1:F:100:ILE:CG1	1:F:443:LYS:HB2	2.49	0.42
1:F:230:ALA:HB2	1:F:373:TYR:CD1	2.54	0.42
1:F:556:VAL:HA	1:F:559:GLU:HG2	2.02	0.42
1:F:797:LEU:O	1:F:800:TRP:HB3	2.19	0.42
1:G:519:PRO:HB2	1:G:610:VAL:HA	2.01	0.42
1:H:379:ASN:HB3	1:H:382:ARG:HB2	2.01	0.42
1:A:225:ALA:HB2	1:A:374:THR:CA	2.50	0.42
1:A:531:MET:SD	1:A:558:TYR:HB2	2.59	0.42
1:A:720:VAL:HG11	1:A:844:ASN:HD22	1.84	0.42
1:A:768:PRO:HD2	1:A:772:ARG:NH2	2.35	0.42
1:A:797:LEU:O	1:A:800:TRP:HB3	2.19	0.42
1:A:805:LYS:HG3	1:A:812:LYS:NZ	2.34	0.42
1:B:96:GLY:HA3	1:B:447:LYS:HB3	2.02	0.42
1:B:643:LYS:HA	1:B:644:SER:HA	1.65	0.42
1:B:753:ASN:HB2	1:B:756:PRO:CD	2.50	0.42
1:C:3:VAL:HG11	1:C:169:TRP:O	2.20	0.42
1:C:508:GLU:HG2	1:C:508:GLU:O	2.19	0.42
1:C:606:PRO:HB2	1:C:623:ASP:O	2.20	0.42
1:C:731:GLU:OE2	1:C:831:LEU:HD11	2.19	0.42
1:C:799:THR:O	1:C:803:GLU:OE1	2.38	0.42
1:D:29:GLU:OE1	1:D:29:GLU:N	2.48	0.42
1:D:452:MET:CE	1:E:464:ARG:HB2	2.49	0.42
1:D:556:VAL:HA	1:D:559:GLU:HG2	2.02	0.42
1:D:664:VAL:HG12	1:D:843:ALA:HB1	2.00	0.42
1:D:679:LYS:HE2	1:D:780:HIS:CE1	2.54	0.42
1:E:59:MET:H	1:E:59:MET:CE	2.33	0.42
1:E:406:ILE:HG12	1:E:410:TYR:CE2	2.54	0.42
1:E:475:LEU:HD22	1:E:475:LEU:HA	1.90	0.42
1:E:568:LEU:HD23	1:E:568:LEU:HA	1.82	0.42
1:F:3:VAL:CG1	1:F:170:ILE:HA	2.49	0.42
1:F:354:VAL:HG21	1:F:385:TYR:HE2	1.84	0.42
1:F:799:THR:O	1:F:803:GLU:OE1	2.38	0.42
1:F:805:LYS:HG3	1:F:812:LYS:NZ	2.34	0.42
1:G:544:GLY:HA2	1:G:548:MET:HE2	2.00	0.42
1:G:670:SER:HA	1:G:673:GLN:HE22	1.84	0.42
1:H:196:PRO:HA	1:H:199:VAL:HG22	2.02	0.42
1:A:40:LEU:O	1:A:43:ASN:HB3	2.20	0.42
1:A:96:GLY:HA3	1:A:447:LYS:HB3	2.02	0.42
1:A:232:ALA:CA	1:A:235:LEU:HD12	2.38	0.42
1:A:483:LEU:HD12	1:A:483:LEU:HA	1.70	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:230:ALA:HB2	1:B:373:TYR:CD1	2.54	0.42
1:B:556:VAL:HA	1:B:559:GLU:HG2	2.02	0.42
1:B:821:GLU:O	1:B:824:PHE:HB3	2.20	0.42
1:C:230:ALA:HB2	1:C:373:TYR:CD1	2.54	0.42
1:C:234:ILE:HG12	1:C:234:ILE:H	1.64	0.42
1:C:242:ASN:CB	1:C:298:GLY:HA2	2.49	0.42
1:C:523:VAL:HA	1:C:526:LYS:HZ3	1.85	0.42
1:D:56:GLU:OE2	1:D:144:ASN:N	2.45	0.42
1:D:467:SER:O	1:D:471:ALA:N	2.45	0.42
1:D:611:THR:HG22	1:D:616:GLY:HA2	1.99	0.42
1:E:40:LEU:O	1:E:43:ASN:HB3	2.20	0.42
1:E:311:LYS:HD3	1:E:312:VAL:N	2.34	0.42
1:E:516:GLU:OE1	1:E:518:ASP:N	2.37	0.42
1:E:664:VAL:HG12	1:E:843:ALA:HB1	2.00	0.42
1:F:3:VAL:HG11	1:F:169:TRP:O	2.20	0.42
1:F:89:LEU:HD13	1:F:89:LEU:HA	1.42	0.42
1:F:559:GLU:O	1:F:587:LYS:HE3	2.19	0.42
1:F:731:GLU:HG2	1:F:732:PHE:CG	2.55	0.42
1:G:678:LEU:HA	1:G:681:LEU:HD23	2.02	0.42
1:G:785:GLN:N	1:G:788:ASP:OD2	2.53	0.42
1:H:148:ALA:O	1:H:151:LYS:HG2	2.20	0.42
1:A:59:MET:CE	1:A:59:MET:H	2.33	0.42
1:A:270:LYS:HB2	1:A:317:LYS:HG3	2.02	0.42
1:A:436:PRO:HD2	1:A:437:LYS:HZ2	1.85	0.42
1:A:638:VAL:O	1:A:638:VAL:HG22	2.20	0.42
1:B:638:VAL:O	1:B:638:VAL:HG22	2.20	0.42
1:B:846:ARG:HG2	1:B:847:TYR:O	2.19	0.42
1:C:281:LYS:HA	1:C:284:LYS:HZ1	1.84	0.42
1:C:483:LEU:HD12	1:C:483:LEU:HA	1.70	0.42
1:C:638:VAL:O	1:C:638:VAL:HG22	2.20	0.42
1:C:703:HIS:O	1:C:707:THR:HG23	2.20	0.42
1:C:821:GLU:O	1:C:824:PHE:HB3	2.20	0.42
1:D:189:LEU:HD11	1:D:208:PRO:HB2	2.00	0.42
1:D:753:ASN:HB2	1:D:756:PRO:CD	2.50	0.42
1:D:848:PRO:HB2	1:D:853:LEU:HD11	2.02	0.42
1:E:74:GLU:O	1:E:78:ASN:ND2	2.53	0.42
1:E:285:VAL:HG23	1:E:293:ASN:ND2	2.34	0.42
1:E:731:GLU:HG2	1:E:732:PHE:CG	2.55	0.42
1:E:759:GLN:HB3	1:E:847:TYR:CB	2.49	0.42
1:F:11:ALA:O	1:F:15:ARG:HG3	2.19	0.42
1:F:78:ASN:HA	1:F:81:LYS:NZ	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:318:VAL:HG22	1:F:340:PRO:C	2.38	0.42
1:F:753:ASN:HB2	1:F:756:PRO:CD	2.50	0.42
1:G:486:ASP:OD1	1:G:487:ARG:N	2.51	0.42
1:A:643:LYS:HA	1:A:644:SER:HA	1.65	0.42
1:A:650:GLY:O	1:A:654:VAL:HG23	2.20	0.42
1:A:753:ASN:HB2	1:A:756:PRO:CD	2.50	0.42
1:A:753:ASN:HB2	1:A:756:PRO:CG	2.50	0.42
1:B:3:VAL:CG1	1:B:170:ILE:HA	2.49	0.42
1:B:285:VAL:HG23	1:B:293:ASN:HD22	1.84	0.42
1:B:453:LEU:CG	1:C:463:PHE:CE2	3.02	0.42
1:B:731:GLU:HG2	1:B:732:PHE:CG	2.55	0.42
1:B:753:ASN:HB2	1:B:756:PRO:CG	2.50	0.42
1:C:40:LEU:O	1:C:43:ASN:HB3	2.20	0.42
1:C:663:SER:HB2	1:C:843:ALA:HB3	2.02	0.42
1:D:96:GLY:HA3	1:D:447:LYS:HB3	2.02	0.42
1:D:656:HIS:NE2	1:D:722:HIS:HE1	2.18	0.42
1:D:731:GLU:HG2	1:D:732:PHE:CG	2.55	0.42
1:D:797:LEU:O	1:D:800:TRP:HB3	2.19	0.42
1:E:242:ASN:CB	1:E:298:GLY:HA2	2.49	0.42
1:E:556:VAL:HA	1:E:559:GLU:HG2	2.02	0.42
1:E:645:LEU:HA	1:E:648:PHE:CD2	2.54	0.42
1:E:656:HIS:NE2	1:E:722:HIS:HE1	2.18	0.42
1:E:754:ASP:HB3	1:E:771:ARG:NH1	2.34	0.42
1:E:797:LEU:O	1:E:800:TRP:HB3	2.19	0.42
1:E:848:PRO:HB2	1:E:853:LEU:HD11	2.02	0.42
1:F:558:TYR:CZ	1:F:588:LYS:HE3	2.55	0.42
1:F:766:ASP:HB2	1:F:767:ARG:NH2	2.34	0.42
1:G:551:ALA:HA	1:G:554:MET:HG2	2.02	0.42
1:G:555:TRP:NE1	1:G:559:GLU:OE2	2.50	0.42
1:H:62:VAL:O	1:H:66:VAL:HG23	2.20	0.42
1:A:242:ASN:CB	1:A:298:GLY:HA2	2.49	0.42
1:A:443:LYS:NZ	1:B:392:THR:C	2.71	0.42
1:A:556:VAL:HA	1:A:559:GLU:HG2	2.02	0.42
1:A:759:GLN:HB3	1:A:847:TYR:CB	2.49	0.42
1:B:100:ILE:CG1	1:B:443:LYS:HB2	2.49	0.42
1:B:540:LEU:HD22	1:B:540:LEU:HA	1.83	0.42
1:B:656:HIS:NE2	1:B:722:HIS:HE1	2.18	0.42
1:C:59:MET:CE	1:C:59:MET:H	2.33	0.42
1:C:100:ILE:CG1	1:C:443:LYS:HB2	2.49	0.42
1:C:406:ILE:HG12	1:C:410:TYR:CE2	2.54	0.42
1:C:425:TRP:CD1	1:C:426:GLY:HA2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:274:LEU:HD11	1:D:278:ASP:CB	2.49	0.42
1:D:663:SER:HB2	1:D:843:ALA:HB3	2.02	0.42
1:E:606:PRO:HG3	1:E:624:TYR:CD1	2.46	0.42
1:F:217:VAL:HB	1:F:248:SER:O	2.20	0.42
1:F:376:GLN:HG2	1:F:377:ASP:OD1	2.20	0.42
1:F:443:LYS:HD3	1:F:443:LYS:HA	1.51	0.42
1:F:463:PHE:CZ	1:G:453:LEU:HG	2.55	0.42
1:F:484:VAL:O	1:F:542:LEU:HB2	2.20	0.42
1:F:703:HIS:O	1:F:707:THR:HG23	2.20	0.42
1:F:753:ASN:HB2	1:F:756:PRO:CG	2.50	0.42
1:G:664:VAL:HG23	1:G:767:ARG:CG	2.49	0.42
1:H:56:GLU:OE2	1:H:144:ASN:N	2.43	0.42
1:A:3:VAL:CG1	1:A:170:ILE:HA	2.49	0.42
1:A:139:HIS:ND1	1:A:141:ARG:HB2	2.35	0.42
1:A:517:ALA:O	1:A:546:SER:OG	2.38	0.42
1:A:855:GLU:O	1:A:858:LEU:HG	2.20	0.42
1:B:158:ILE:C	1:B:160:ALA:H	2.23	0.42
1:B:601:GLY:O	1:B:604:VAL:HG12	2.20	0.42
1:B:819:VAL:HB	1:B:861:TYR:HE1	1.85	0.42
1:C:96:GLY:HA3	1:C:447:LYS:HB3	2.02	0.42
1:C:376:GLN:NE2	1:C:377:ASP:CG	2.74	0.42
1:C:475:LEU:HA	1:C:478:LYS:HZ1	1.85	0.42
1:C:558:TYR:CZ	1:C:588:LYS:HE3	2.55	0.42
1:C:606:PRO:HG3	1:C:624:TYR:CD1	2.46	0.42
1:C:720:VAL:HA	1:C:840:CYS:HB3	2.01	0.42
1:D:234:ILE:HA	1:D:237:SER:OG	2.18	0.42
1:D:242:ASN:CB	1:D:298:GLY:HA2	2.49	0.42
1:D:376:GLN:NE2	1:D:377:ASP:CG	2.74	0.42
1:D:601:GLY:O	1:D:604:VAL:HG12	2.20	0.42
1:D:638:VAL:O	1:D:638:VAL:HG22	2.20	0.42
1:D:645:LEU:HA	1:D:648:PHE:CD2	2.54	0.42
1:E:3:VAL:CG1	1:E:170:ILE:HA	2.49	0.42
1:E:225:ALA:HB2	1:E:374:THR:CA	2.50	0.42
1:E:425:TRP:CD1	1:E:426:GLY:HA2	2.55	0.42
1:E:436:PRO:HD2	1:E:437:LYS:HZ2	1.85	0.42
1:E:753:ASN:HB2	1:E:756:PRO:CD	2.49	0.42
1:E:819:VAL:HB	1:E:861:TYR:HE1	1.85	0.42
1:E:821:GLU:O	1:E:824:PHE:HB3	2.20	0.42
1:F:606:PRO:HB2	1:F:623:ASP:O	2.20	0.42
1:F:663:SER:HB2	1:F:843:ALA:HB3	2.02	0.42
1:G:499:VAL:HG22	1:G:503:LYS:HZ3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:513:PHE:N	1:G:514:GLU:OE1	2.53	0.42
1:G:664:VAL:HG21	1:G:762:PHE:HZ	1.85	0.42
1:G:673:GLN:HB2	1:G:708:ILE:HG23	2.01	0.42
1:H:270:LYS:HZ3	1:H:317:LYS:HB3	1.85	0.42
1:A:5:ASN:N	1:A:8:GLU:OE2	2.53	0.41
1:A:176:GLU:HG2	1:A:177:LEU:N	2.35	0.41
1:A:703:HIS:O	1:A:707:THR:HG23	2.20	0.41
1:B:139:HIS:ND1	1:B:141:ARG:HB2	2.35	0.41
1:C:303:ALA:O	1:C:307:MET:HB3	2.19	0.41
1:C:556:VAL:HA	1:C:559:GLU:HG2	2.02	0.41
1:C:855:GLU:O	1:C:858:LEU:HG	2.20	0.41
1:D:750:TYR:OH	1:D:847:TYR:O	2.38	0.41
1:D:768:PRO:HB2	1:D:772:ARG:CZ	2.49	0.41
1:E:176:GLU:HG2	1:E:177:LEU:N	2.35	0.41
1:E:376:GLN:HG2	1:E:377:ASP:OD1	2.20	0.41
1:E:517:ALA:O	1:E:546:SER:OG	2.38	0.41
1:F:5:ASN:N	1:F:8:GLU:OE2	2.53	0.41
1:F:45:ALA:O	1:F:48:PRO:HD2	2.20	0.41
1:F:274:LEU:HD11	1:F:278:ASP:CB	2.49	0.41
1:F:376:GLN:NE2	1:F:377:ASP:CG	2.74	0.41
1:F:638:VAL:O	1:F:638:VAL:HG22	2.20	0.41
1:F:650:GLY:O	1:F:654:VAL:HG23	2.20	0.41
1:F:804:LEU:HD12	1:F:804:LEU:HA	1.72	0.41
1:H:193:THR:HG22	1:H:212:VAL:HB	2.02	0.41
1:H:255:VAL:HG22	1:H:256:SER:H	1.85	0.41
1:A:425:TRP:CD1	1:A:426:GLY:HA2	2.55	0.41
1:A:483:LEU:CB	1:A:511:THR:HA	2.48	0.41
1:A:558:TYR:CZ	1:A:588:LYS:HE3	2.55	0.41
1:A:601:GLY:O	1:A:604:VAL:HG12	2.20	0.41
1:A:668:GLU:CD	1:A:669:TYR:HD2	2.24	0.41
1:B:22:GLU:OE1	1:B:22:GLU:N	2.51	0.41
1:B:129:LYS:HD2	1:B:129:LYS:HA	1.45	0.41
1:B:480:ARG:N	1:B:537:ASP:OD2	2.33	0.41
1:B:650:GLY:O	1:B:654:VAL:HG23	2.20	0.41
1:B:668:GLU:CD	1:B:669:TYR:HD2	2.24	0.41
1:B:855:GLU:O	1:B:858:LEU:HG	2.20	0.41
1:C:668:GLU:CD	1:C:669:TYR:HD2	2.24	0.41
1:C:753:ASN:HB2	1:C:756:PRO:CG	2.50	0.41
1:C:764:GLN:OE1	1:C:764:GLN:N	2.49	0.41
1:D:45:ALA:O	1:D:48:PRO:HD2	2.20	0.41
1:D:217:VAL:HB	1:D:248:SER:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:559:GLU:O	1:D:587:LYS:HE3	2.19	0.41
1:D:753:ASN:HB2	1:D:756:PRO:CG	2.50	0.41
1:D:855:GLU:O	1:D:858:LEU:HG	2.20	0.41
1:E:158:ILE:C	1:E:160:ALA:H	2.23	0.41
1:E:232:ALA:CA	1:E:235:LEU:HD12	2.38	0.41
1:E:570:MET:HA	1:E:570:MET:HE3	2.02	0.41
1:E:579:ILE:HA	1:E:580:TYR:HA	1.65	0.41
1:E:663:SER:HB2	1:E:843:ALA:HB3	2.02	0.41
1:E:720:VAL:HA	1:E:840:CYS:HB3	2.01	0.41
1:F:520:THR:O	1:F:521:LEU:HB2	2.20	0.41
1:F:564:HIS:CG	1:F:565:PHE:H	2.37	0.41
1:F:638:VAL:CG2	1:F:641:MET:HB3	2.48	0.41
1:G:529:ALA:HA	1:G:532:GLN:HG3	2.02	0.41
1:A:6:LEU:O	1:A:10:ASP:HB2	2.20	0.41
1:A:265:ARG:HD2	1:A:268:THR:OG1	2.21	0.41
1:A:445:VAL:HG23	1:B:395:ILE:HB	2.01	0.41
1:A:819:VAL:HB	1:A:861:TYR:HE1	1.85	0.41
1:A:848:PRO:HB2	1:A:853:LEU:HD11	2.02	0.41
1:B:750:TYR:OH	1:B:847:TYR:O	2.38	0.41
1:C:56:GLU:OE2	1:C:144:ASN:N	2.45	0.41
1:C:92:ASP:OD1	1:C:94:ASN:HB2	2.21	0.41
1:C:139:HIS:ND1	1:C:141:ARG:HB2	2.35	0.41
1:C:176:GLU:HG2	1:C:177:LEU:N	2.35	0.41
1:C:265:ARG:HD2	1:C:268:THR:OG1	2.20	0.41
1:C:753:ASN:HB2	1:C:756:PRO:CD	2.50	0.41
1:C:754:ASP:HB3	1:C:771:ARG:NH1	2.34	0.41
1:C:768:PRO:HB2	1:C:772:ARG:CZ	2.49	0.41
1:C:848:PRO:HB2	1:C:853:LEU:HD11	2.02	0.41
1:D:100:ILE:CG1	1:D:443:LYS:HB2	2.49	0.41
1:D:139:HIS:ND1	1:D:141:ARG:HB2	2.35	0.41
1:D:410:TYR:HA	1:D:411:ASN:HA	1.65	0.41
1:D:520:THR:O	1:D:521:LEU:HB2	2.21	0.41
1:D:668:GLU:CD	1:D:669:TYR:HD2	2.24	0.41
1:D:703:HIS:O	1:D:707:THR:HG23	2.20	0.41
1:D:799:THR:O	1:D:803:GLU:OE1	2.38	0.41
1:E:3:VAL:HG11	1:E:169:TRP:O	2.20	0.41
1:E:520:THR:O	1:E:521:LEU:HB2	2.21	0.41
1:F:425:TRP:CD1	1:F:426:GLY:HA2	2.55	0.41
1:F:754:ASP:OD1	1:F:755:ASN:N	2.49	0.41
1:F:848:PRO:HB2	1:F:853:LEU:HD11	2.02	0.41
1:G:485:THR:O	1:G:513:PHE:HA	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:567:GLU:HG2	1:G:568:LEU:HD22	2.01	0.41
1:G:572:PHE:HZ	1:G:581:LYS:O	2.03	0.41
1:G:855:GLU:O	1:G:858:LEU:HG	2.20	0.41
1:H:124:SER:O	1:H:128:LEU:HD23	2.20	0.41
1:H:210:ILE:HG22	1:H:423:GLY:HA2	2.02	0.41
1:A:45:ALA:O	1:A:48:PRO:HD2	2.20	0.41
1:A:217:VAL:HB	1:A:248:SER:O	2.20	0.41
1:A:445:VAL:HA	1:B:395:ILE:O	2.20	0.41
1:A:484:VAL:O	1:A:542:LEU:HB2	2.20	0.41
1:B:3:VAL:HG11	1:B:169:TRP:O	2.20	0.41
1:B:176:GLU:HG2	1:B:177:LEU:N	2.35	0.41
1:B:217:VAL:HB	1:B:248:SER:O	2.20	0.41
1:B:425:TRP:CD1	1:B:426:GLY:HA2	2.55	0.41
1:B:569:ALA:CA	1:B:621:LEU:HD11	2.45	0.41
1:B:606:PRO:HB2	1:B:623:ASP:O	2.20	0.41
1:B:731:GLU:OE2	1:B:831:LEU:HD11	2.19	0.41
1:C:74:GLU:O	1:C:78:ASN:ND2	2.53	0.41
1:C:121:ILE:O	1:C:125:LEU:HB2	2.21	0.41
1:C:217:VAL:HB	1:C:248:SER:O	2.20	0.41
1:C:650:GLY:O	1:C:654:VAL:HG23	2.20	0.41
1:D:5:ASN:HB2	1:D:8:GLU:OE1	2.21	0.41
1:D:40:LEU:O	1:D:43:ASN:HB3	2.20	0.41
1:D:59:MET:CE	1:D:59:MET:H	2.33	0.41
1:D:121:ILE:O	1:D:125:LEU:HB2	2.21	0.41
1:D:470:ILE:HD11	1:E:452:MET:HE3	1.91	0.41
1:E:184:HIS:O	1:E:187:ILE:HG12	2.21	0.41
1:E:220:VAL:HG12	1:E:253:ILE:CD1	2.50	0.41
1:E:265:ARG:HD2	1:E:268:THR:OG1	2.21	0.41
1:E:475:LEU:HA	1:E:478:LYS:HZ1	1.85	0.41
1:E:718:LEU:CD2	1:E:839:GLN:HE22	2.33	0.41
1:F:6:LEU:O	1:F:10:ASP:HB2	2.20	0.41
1:F:33:LYS:HA	1:F:36:ARG:NH1	2.36	0.41
1:F:52:MET:HA	1:F:55:GLU:CG	2.49	0.41
1:F:59:MET:CE	1:F:59:MET:H	2.33	0.41
1:F:121:ILE:O	1:F:125:LEU:HB2	2.21	0.41
1:F:158:ILE:C	1:F:160:ALA:H	2.23	0.41
1:F:264:GLU:OE1	1:F:265:ARG:N	2.54	0.41
1:F:265:ARG:HD2	1:F:268:THR:OG1	2.21	0.41
1:F:759:GLN:HB3	1:F:847:TYR:CB	2.49	0.41
1:F:819:VAL:HB	1:F:861:TYR:HE1	1.85	0.41
1:F:821:GLU:O	1:F:824:PHE:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:551:ALA:O	1:G:554:MET:HG2	2.21	0.41
1:G:749:ARG:NH1	1:G:865:PRO:HA	2.36	0.41
1:G:785:GLN:HG2	1:G:786:PRO:HD2	2.02	0.41
1:H:232:ALA:HA	1:H:235:LEU:CD2	2.50	0.41
1:A:184:HIS:O	1:A:187:ILE:HG12	2.21	0.41
1:A:229:ARG:CD	1:B:765:TYR:OH	2.68	0.41
1:A:728:ILE:HG12	1:A:728:ILE:H	1.37	0.41
1:B:5:ASN:HB2	1:B:8:GLU:OE1	2.21	0.41
1:B:52:MET:HA	1:B:55:GLU:CG	2.48	0.41
1:B:175:VAL:O	1:B:178:SER:OG	2.27	0.41
1:B:264:GLU:OE1	1:B:265:ARG:N	2.54	0.41
1:B:413:ASN:OD1	1:B:413:ASN:C	2.59	0.41
1:B:804:LEU:HA	1:B:804:LEU:HD12	1.72	0.41
1:C:222:ASP:OD2	1:C:374:THR:OG1	2.26	0.41
1:C:376:GLN:HG2	1:C:377:ASP:OD1	2.20	0.41
1:C:484:VAL:O	1:C:542:LEU:HB2	2.20	0.41
1:C:731:GLU:HG2	1:C:732:PHE:CG	2.55	0.41
1:D:376:GLN:HG2	1:D:377:ASP:OD1	2.20	0.41
1:D:821:GLU:O	1:D:824:PHE:HB3	2.20	0.41
1:E:584:LYS:N	1:E:585:MET:HE3	2.35	0.41
1:E:668:GLU:CD	1:E:669:TYR:HD2	2.24	0.41
1:E:815:GLN:HB3	1:E:861:TYR:CZ	2.56	0.41
1:F:40:LEU:O	1:F:43:ASN:HB3	2.20	0.41
1:G:635:ALA:HB1	1:G:639:MET:CE	2.51	0.41
1:A:158:ILE:C	1:A:160:ALA:H	2.23	0.41
1:A:257:GLU:OE2	1:A:258:VAL:HG13	2.21	0.41
1:A:413:ASN:C	1:A:413:ASN:OD1	2.59	0.41
1:A:584:LYS:N	1:A:585:MET:HE3	2.36	0.41
1:A:663:SER:HB2	1:A:843:ALA:HB3	2.02	0.41
1:B:59:MET:CE	1:B:59:MET:H	2.33	0.41
1:B:121:ILE:O	1:B:125:LEU:HB2	2.21	0.41
1:B:465:ARG:NH1	1:B:636:ASN:HA	2.36	0.41
1:B:484:VAL:O	1:B:542:LEU:HB2	2.20	0.41
1:B:678:LEU:HA	1:B:678:LEU:HD23	1.84	0.41
1:B:720:VAL:HG11	1:B:844:ASN:HD22	1.84	0.41
1:C:45:ALA:O	1:C:48:PRO:HD2	2.20	0.41
1:C:523:VAL:HB	1:C:526:LYS:HZ3	1.86	0.41
1:D:264:GLU:OE1	1:D:265:ARG:N	2.54	0.41
1:D:326:LYS:HD3	1:D:328:SER:OG	2.21	0.41
1:D:484:VAL:O	1:D:542:LEU:HB2	2.20	0.41
1:D:720:VAL:HG11	1:D:844:ASN:HD22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:815:GLN:HB3	1:D:861:TYR:CZ	2.56	0.41
1:E:606:PRO:HB2	1:E:623:ASP:O	2.20	0.41
1:E:703:HIS:O	1:E:707:THR:HG23	2.20	0.41
1:E:768:PRO:HD2	1:E:772:ARG:NH2	2.35	0.41
1:F:5:ASN:HB2	1:F:8:GLU:OE1	2.21	0.41
1:F:220:VAL:HG12	1:F:253:ILE:CD1	2.50	0.41
1:F:480:ARG:N	1:F:537:ASP:OD2	2.33	0.41
1:F:482:PHE:HB3	1:F:539:ILE:HD13	2.03	0.41
1:G:724:MET:HE3	1:G:743:LEU:HD13	2.03	0.41
1:H:148:ALA:HA	1:H:151:LYS:HZ3	1.85	0.41
1:H:374:THR:O	1:H:398:ASN:ND2	2.47	0.41
1:A:229:ARG:H	1:A:229:ARG:HG2	1.58	0.41
1:A:234:ILE:HG12	1:A:234:ILE:H	1.64	0.41
1:A:731:GLU:HG2	1:A:732:PHE:CG	2.55	0.41
1:B:187:ILE:HD11	1:B:207:LYS:HE2	2.03	0.41
1:B:220:VAL:HG12	1:B:253:ILE:CD1	2.50	0.41
1:B:257:GLU:OE2	1:B:258:VAL:HG13	2.21	0.41
1:B:376:GLN:NE2	1:B:377:ASP:CG	2.74	0.41
1:C:3:VAL:CG1	1:C:170:ILE:HA	2.49	0.41
1:C:5:ASN:N	1:C:8:GLU:OE2	2.53	0.41
1:C:6:LEU:O	1:C:10:ASP:HB2	2.21	0.41
1:C:220:VAL:HG12	1:C:253:ILE:CD1	2.50	0.41
1:C:326:LYS:HD3	1:C:328:SER:OG	2.21	0.41
1:C:448:ARG:CG	1:D:398:ASN:HB2	2.51	0.41
1:C:551:ALA:O	1:C:555:TRP:N	2.34	0.41
1:C:555:TRP:O	1:C:558:TYR:HB3	2.21	0.41
1:C:601:GLY:O	1:C:604:VAL:HG12	2.20	0.41
1:C:718:LEU:CD2	1:C:839:GLN:HE22	2.33	0.41
1:D:6:LEU:O	1:D:10:ASP:HB2	2.20	0.41
1:D:257:GLU:OE2	1:D:258:VAL:HG13	2.21	0.41
1:E:121:ILE:O	1:E:125:LEU:HB2	2.21	0.41
1:E:139:HIS:ND1	1:E:141:ARG:HB2	2.35	0.41
1:E:270:LYS:HB2	1:E:317:LYS:HG3	2.02	0.41
1:E:650:GLY:O	1:E:654:VAL:HG23	2.20	0.41
1:F:139:HIS:ND1	1:F:141:ARG:HB2	2.35	0.41
1:F:551:ALA:O	1:F:555:TRP:N	2.34	0.41
1:F:584:LYS:N	1:F:585:MET:HE3	2.35	0.41
1:F:855:GLU:O	1:F:858:LEU:HG	2.20	0.41
1:G:555:TRP:HZ2	1:G:586:GLY:HA2	1.85	0.41
1:H:143:LYS:CD	1:H:173:PRO:HD3	2.49	0.41
1:H:278:ASP:HA	1:H:281:LYS:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3:VAL:HG11	1:A:169:TRP:O	2.20	0.41
1:A:74:GLU:O	1:A:78:ASN:ND2	2.53	0.41
1:A:285:VAL:O	1:A:293:ASN:HB3	2.21	0.41
1:A:376:GLN:HG2	1:A:377:ASP:OD1	2.20	0.41
1:B:482:PHE:HB3	1:B:539:ILE:HD13	2.03	0.41
1:B:799:THR:O	1:B:803:GLU:OE1	2.38	0.41
1:B:813:SER:HB2	1:B:861:TYR:O	2.21	0.41
1:C:274:LEU:HD11	1:C:278:ASP:CB	2.49	0.41
1:C:410:TYR:HA	1:C:411:ASN:HA	1.65	0.41
1:D:606:PRO:HB2	1:D:623:ASP:O	2.20	0.41
1:D:695:ASP:OD1	1:D:697:ILE:HB	2.21	0.41
1:D:754:ASP:OD1	1:D:755:ASN:N	2.49	0.41
1:D:819:VAL:HB	1:D:861:TYR:HE1	1.85	0.41
1:E:45:ALA:O	1:E:48:PRO:HD2	2.20	0.41
1:E:376:GLN:NE2	1:E:377:ASP:CG	2.74	0.41
1:E:601:GLY:O	1:E:604:VAL:HG12	2.20	0.41
1:E:753:ASN:HB2	1:E:756:PRO:CG	2.50	0.41
1:E:799:THR:O	1:E:803:GLU:OE1	2.38	0.41
1:F:465:ARG:NH1	1:F:636:ASN:HA	2.36	0.41
1:G:609:VAL:HA	1:G:619:TYR:O	2.20	0.41
1:H:228:LYS:HE2	1:H:265:ARG:HH12	1.84	0.41
1:H:408:ASP:OD1	1:H:408:ASP:N	2.53	0.41
1:A:200:LYS:HE2	1:A:200:LYS:HB2	1.85	0.41
1:A:376:GLN:NE2	1:A:377:ASP:CG	2.74	0.41
1:A:569:ALA:HA	1:A:621:LEU:CD1	2.42	0.41
1:A:656:HIS:NE2	1:A:722:HIS:HE1	2.18	0.41
1:A:799:THR:O	1:A:803:GLU:OE1	2.38	0.41
1:A:821:GLU:O	1:A:824:PHE:HB3	2.20	0.41
1:B:33:LYS:HA	1:B:36:ARG:NH1	2.36	0.41
1:B:45:ALA:O	1:B:48:PRO:HD2	2.20	0.41
1:B:92:ASP:OD1	1:B:94:ASN:HB2	2.21	0.41
1:B:270:LYS:HB2	1:B:317:LYS:HG3	2.02	0.41
1:B:285:VAL:O	1:B:293:ASN:HB3	2.21	0.41
1:B:638:VAL:CG2	1:B:641:MET:HB3	2.48	0.41
1:B:661:TYR:OH	1:B:773:ARG:HD2	2.21	0.41
1:B:829:ASP:OD1	1:B:854:LYS:NZ	2.35	0.41
1:B:848:PRO:HB2	1:B:853:LEU:HD11	2.02	0.41
1:C:5:ASN:HB2	1:C:8:GLU:OE1	2.21	0.41
1:C:257:GLU:OE2	1:C:258:VAL:HG13	2.21	0.41
1:C:465:ARG:NH1	1:C:636:ASN:HA	2.36	0.41
1:C:656:HIS:NE2	1:C:722:HIS:HE1	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:742:LEU:HA	1:C:742:LEU:HD23	1.82	0.41
1:C:754:ASP:OD1	1:C:755:ASN:N	2.49	0.41
1:D:3:VAL:HG11	1:D:169:TRP:O	2.20	0.41
1:D:158:ILE:C	1:D:160:ALA:H	2.23	0.41
1:D:225:ALA:HB2	1:D:374:THR:CA	2.50	0.41
1:D:281:LYS:HA	1:D:284:LYS:HZ2	1.86	0.41
1:D:285:VAL:O	1:D:293:ASN:HB3	2.21	0.41
1:D:425:TRP:CD1	1:D:426:GLY:HA2	2.55	0.41
1:D:465:ARG:NH1	1:D:636:ASN:HA	2.36	0.41
1:D:555:TRP:O	1:D:558:TYR:HB3	2.21	0.41
1:D:678:LEU:HD23	1:D:678:LEU:HA	1.84	0.41
1:E:6:LEU:O	1:E:10:ASP:HB2	2.21	0.41
1:E:33:LYS:HA	1:E:36:ARG:NH1	2.36	0.41
1:E:92:ASP:OD1	1:E:94:ASN:HB2	2.21	0.41
1:E:484:VAL:O	1:E:542:LEU:HB2	2.20	0.41
1:E:555:TRP:O	1:E:558:TYR:HB3	2.21	0.41
1:E:638:VAL:O	1:E:638:VAL:HG22	2.20	0.41
1:E:661:TYR:OH	1:E:773:ARG:HD2	2.21	0.41
1:E:720:VAL:HG11	1:E:844:ASN:HD22	1.85	0.41
1:E:813:SER:HB2	1:E:861:TYR:O	2.21	0.41
1:F:184:HIS:O	1:F:187:ILE:HG12	2.21	0.41
1:F:257:GLU:OE2	1:F:258:VAL:HG13	2.21	0.41
1:F:270:LYS:HB2	1:F:317:LYS:HG3	2.02	0.41
1:F:285:VAL:O	1:F:293:ASN:HB3	2.21	0.41
1:F:413:ASN:C	1:F:413:ASN:OD1	2.59	0.41
1:F:475:LEU:HA	1:F:478:LYS:HZ1	1.86	0.41
1:F:768:PRO:HD2	1:F:772:ARG:NH2	2.35	0.41
1:F:815:GLN:HB3	1:F:861:TYR:CZ	2.56	0.41
1:G:454:TRP:CZ2	1:G:578:ARG:NH1	2.86	0.41
1:G:575:ILE:HG22	1:G:576:ARG:N	2.36	0.41
1:G:613:ASP:HB2	1:G:614:LYS:NZ	2.36	0.41
1:G:728:ILE:HA	1:G:731:GLU:OE2	2.21	0.41
1:H:28:GLN:OE1	1:H:86:CYS:N	2.54	0.41
1:H:107:ILE:HG12	1:H:189:LEU:HB3	2.03	0.41
1:A:228:LYS:HB2	1:A:229:ARG:CZ	2.51	0.41
1:A:273:VAL:HA	1:A:320:VAL:HB	2.03	0.41
1:B:270:LYS:HB3	1:B:316:THR:HA	2.03	0.41
1:C:184:HIS:O	1:C:187:ILE:HG12	2.21	0.41
1:C:228:LYS:HB2	1:C:229:ARG:CZ	2.51	0.41
1:C:273:VAL:HA	1:C:320:VAL:HB	2.03	0.41
1:C:678:LEU:HD23	1:C:678:LEU:HA	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:815:GLN:HB3	1:C:861:TYR:CZ	2.56	0.41
1:D:270:LYS:HB2	1:D:317:LYS:HG3	2.02	0.41
1:D:436:PRO:HD2	1:D:437:LYS:HZ2	1.85	0.41
1:D:650:GLY:O	1:D:654:VAL:HG23	2.20	0.41
1:E:227:ILE:HG13	1:E:228:LYS:HG3	2.04	0.41
1:E:326:LYS:HD3	1:E:328:SER:OG	2.21	0.41
1:E:483:LEU:CB	1:E:511:THR:HA	2.48	0.41
1:E:540:LEU:HD22	1:E:540:LEU:HA	1.83	0.41
1:E:754:ASP:OD1	1:E:755:ASN:N	2.49	0.41
1:E:855:GLU:O	1:E:858:LEU:HG	2.20	0.41
1:F:96:GLY:HA3	1:F:447:LYS:HB3	2.02	0.41
1:F:656:HIS:NE2	1:F:722:HIS:HE1	2.18	0.41
1:G:531:MET:SD	1:G:532:GLN:N	2.94	0.41
1:G:575:ILE:C	1:G:577:LYS:H	2.23	0.41
1:G:768:PRO:HB2	1:G:772:ARG:HD3	2.02	0.41
1:H:107:ILE:O	1:H:134:ILE:HD12	2.21	0.41
1:A:187:ILE:HD11	1:A:207:LYS:HE2	2.03	0.40
1:A:220:VAL:HG12	1:A:253:ILE:CD1	2.50	0.40
1:A:227:ILE:HG13	1:A:228:LYS:HG3	2.03	0.40
1:B:5:ASN:N	1:B:8:GLU:OE2	2.53	0.40
1:B:184:HIS:O	1:B:187:ILE:HG12	2.21	0.40
1:B:457:LEU:HD12	1:B:457:LEU:HA	1.89	0.40
1:B:480:ARG:HB2	1:B:537:ASP:H	1.86	0.40
1:B:483:LEU:CB	1:B:511:THR:HA	2.48	0.40
1:B:555:TRP:O	1:B:558:TYR:HB3	2.21	0.40
1:C:540:LEU:HD22	1:C:540:LEU:HA	1.83	0.40
1:D:33:LYS:HA	1:D:36:ARG:NH1	2.36	0.40
1:D:240:PHE:O	1:D:243:GLY:N	2.50	0.40
1:D:265:ARG:HD2	1:D:268:THR:OG1	2.21	0.40
1:D:483:LEU:CB	1:D:511:THR:HA	2.48	0.40
1:D:833:VAL:HA	1:D:850:ILE:HD12	2.04	0.40
1:E:5:ASN:HB2	1:E:8:GLU:OE1	2.21	0.40
1:E:264:GLU:OE1	1:E:265:ARG:N	2.54	0.40
1:E:601:GLY:HA3	1:E:710:GLY:HA3	2.04	0.40
1:F:176:GLU:HG2	1:F:177:LEU:N	2.35	0.40
1:F:579:ILE:HA	1:F:580:TYR:CD1	2.57	0.40
1:F:695:ASP:OD1	1:F:697:ILE:HB	2.21	0.40
1:F:805:LYS:HE2	1:F:812:LYS:HZ3	1.87	0.40
1:G:571:ARG:NH2	1:G:580:TYR:HD2	2.19	0.40
1:A:5:ASN:HB2	1:A:8:GLU:OE1	2.21	0.40
1:A:52:MET:HA	1:A:55:GLU:CG	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:LYS:HB3	1:A:316:THR:HA	2.04	0.40
1:A:326:LYS:HD3	1:A:328:SER:OG	2.21	0.40
1:A:457:LEU:HD12	1:A:457:LEU:HA	1.89	0.40
1:A:606:PRO:HB2	1:A:623:ASP:O	2.20	0.40
1:B:376:GLN:HG2	1:B:377:ASP:OD1	2.20	0.40
1:B:601:GLY:HA3	1:B:710:GLY:HA3	2.03	0.40
1:C:158:ILE:C	1:C:160:ALA:H	2.23	0.40
1:C:413:ASN:OD1	1:C:413:ASN:C	2.59	0.40
1:C:520:THR:O	1:C:521:LEU:HB2	2.21	0.40
1:C:579:ILE:HA	1:C:580:TYR:CD1	2.56	0.40
1:C:584:LYS:N	1:C:585:MET:HE3	2.36	0.40
1:C:805:LYS:HE2	1:C:812:LYS:HZ3	1.87	0.40
1:C:813:SER:HB2	1:C:861:TYR:O	2.21	0.40
1:C:833:VAL:HA	1:C:850:ILE:HD12	2.04	0.40
1:D:74:GLU:O	1:D:78:ASN:ND2	2.53	0.40
1:D:76:ILE:HD11	1:D:122:PHE:CD1	2.57	0.40
1:D:462:TYR:CE1	1:E:454:TRP:CH2	3.10	0.40
1:D:482:PHE:HB3	1:D:539:ILE:HD13	2.03	0.40
1:D:579:ILE:HA	1:D:580:TYR:CD1	2.56	0.40
1:D:601:GLY:HA3	1:D:710:GLY:HA3	2.04	0.40
1:D:744:ILE:O	1:D:747:VAL:HB	2.22	0.40
1:D:768:PRO:HD2	1:D:772:ARG:NH2	2.35	0.40
1:E:579:ILE:HA	1:E:580:TYR:CD1	2.56	0.40
1:E:744:ILE:O	1:E:747:VAL:HB	2.21	0.40
1:F:92:ASP:OD1	1:F:94:ASN:HB2	2.21	0.40
1:F:227:ILE:HG13	1:F:228:LYS:HG3	2.04	0.40
1:F:326:LYS:HD3	1:F:328:SER:OG	2.21	0.40
1:F:601:GLY:HA3	1:F:710:GLY:HA3	2.04	0.40
1:G:740:ASN:OD1	1:G:740:ASN:N	2.54	0.40
1:G:759:GLN:NE2	1:G:849:LEU:HB3	2.30	0.40
1:H:15:ARG:HB3	1:H:164:LYS:NZ	2.37	0.40
1:A:76:ILE:HD11	1:A:122:PHE:CD1	2.57	0.40
1:A:121:ILE:O	1:A:125:LEU:HB2	2.21	0.40
1:A:571:ARG:HH11	1:B:78:ASN:ND2	2.19	0.40
1:A:815:GLN:HB3	1:A:861:TYR:CZ	2.56	0.40
1:B:6:LEU:O	1:B:10:ASP:HB2	2.20	0.40
1:B:228:LYS:HB2	1:B:229:ARG:CZ	2.51	0.40
1:B:281:LYS:HA	1:B:284:LYS:HZ1	1.85	0.40
1:B:591:LEU:HB3	1:B:628:PRO:HB3	2.03	0.40
1:B:766:ASP:O	1:B:768:PRO:HD3	2.22	0.40
1:C:229:ARG:H	1:C:229:ARG:HG2	1.58	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:264:GLU:OE1	1:C:265:ARG:N	2.54	0.40
1:C:270:LYS:HB2	1:C:317:LYS:HG3	2.02	0.40
1:C:463:PHE:CD1	1:C:463:PHE:N	2.90	0.40
1:C:661:TYR:OH	1:C:773:ARG:HD2	2.21	0.40
1:D:92:ASP:OD1	1:D:94:ASN:HB2	2.21	0.40
1:D:463:PHE:CD1	1:D:463:PHE:N	2.90	0.40
1:D:470:ILE:CD1	1:E:452:MET:CE	2.87	0.40
1:D:804:LEU:HA	1:D:804:LEU:HD12	1.71	0.40
1:D:813:SER:HB2	1:D:861:TYR:O	2.21	0.40
1:E:217:VAL:HB	1:E:248:SER:O	2.20	0.40
1:E:228:LYS:HB2	1:E:229:ARG:CZ	2.51	0.40
1:E:270:LYS:HB3	1:E:316:THR:HA	2.04	0.40
1:E:281:LYS:NZ	1:E:309:GLY:O	2.40	0.40
1:E:413:ASN:OD1	1:E:413:ASN:C	2.59	0.40
1:F:187:ILE:HD11	1:F:207:LYS:HE2	2.03	0.40
1:F:225:ALA:HB2	1:F:374:THR:CA	2.50	0.40
1:F:661:TYR:OH	1:F:773:ARG:HD2	2.21	0.40
1:F:668:GLU:CD	1:F:669:TYR:HD2	2.24	0.40
1:G:678:LEU:HA	1:G:681:LEU:CD2	2.51	0.40
1:H:350:PHE:HE2	1:H:385:TYR:CD2	2.39	0.40
1:A:175:VAL:O	1:A:178:SER:OG	2.27	0.40
1:A:520:THR:O	1:A:521:LEU:HB2	2.21	0.40
1:A:766:ASP:O	1:A:768:PRO:HD3	2.22	0.40
1:A:805:LYS:HE2	1:A:812:LYS:HZ3	1.87	0.40
1:B:107:ILE:HG21	1:B:191:LEU:HD23	2.04	0.40
1:B:225:ALA:HB2	1:B:374:THR:CA	2.50	0.40
1:B:326:LYS:HD3	1:B:328:SER:OG	2.21	0.40
1:B:520:THR:O	1:B:521:LEU:HB2	2.21	0.40
1:B:568:LEU:HD23	1:B:568:LEU:HA	1.82	0.40
1:B:579:ILE:HA	1:B:580:TYR:HA	1.65	0.40
1:B:755:ASN:N	1:B:756:PRO:HD3	2.37	0.40
1:C:200:LYS:HE2	1:C:200:LYS:HB2	1.85	0.40
1:C:285:VAL:O	1:C:293:ASN:HB3	2.21	0.40
1:C:480:ARG:N	1:C:537:ASP:OD2	2.33	0.40
1:C:591:LEU:HB3	1:C:628:PRO:HB3	2.03	0.40
1:C:695:ASP:OD1	1:C:697:ILE:HB	2.21	0.40
1:C:744:ILE:O	1:C:747:VAL:HB	2.21	0.40
1:D:766:ASP:O	1:D:768:PRO:HD3	2.22	0.40
1:D:829:ASP:OD1	1:D:854:LYS:NZ	2.35	0.40
1:E:273:VAL:HA	1:E:320:VAL:HB	2.03	0.40
1:E:571:ARG:NH1	1:F:81:LYS:HZ1	2.18	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:612:ASP:HB2	1:F:617:ALA:HB3	2.03	0.40
1:G:560:HIS:NE2	1:G:583:PRO:HB2	2.37	0.40
1:G:703:HIS:O	1:G:707:THR:HG23	2.22	0.40
1:H:219:VAL:HA	1:H:371:GLY:O	2.21	0.40
1:H:226:ASP:HB3	1:H:229:ARG:HG2	2.03	0.40
1:H:326:LYS:HD3	1:H:328:SER:OG	2.22	0.40
1:A:92:ASP:OD1	1:A:94:ASN:HB2	2.21	0.40
1:A:579:ILE:HA	1:A:580:TYR:HA	1.65	0.40
1:A:661:TYR:OH	1:A:773:ARG:HD2	2.21	0.40
1:A:665:LEU:HD13	1:A:843:ALA:HB2	2.04	0.40
1:B:570:MET:HA	1:B:570:MET:HE3	2.03	0.40
1:B:579:ILE:HA	1:B:580:TYR:CD1	2.56	0.40
1:B:744:ILE:O	1:B:747:VAL:HB	2.22	0.40
1:C:766:ASP:O	1:C:768:PRO:HD3	2.22	0.40
1:C:819:VAL:HB	1:C:861:TYR:HE1	1.85	0.40
1:D:107:ILE:HG21	1:D:191:LEU:HD23	2.04	0.40
1:E:5:ASN:N	1:E:8:GLU:OE2	2.53	0.40
1:E:175:VAL:O	1:E:178:SER:OG	2.27	0.40
1:E:465:ARG:NH1	1:E:636:ASN:HA	2.36	0.40
1:E:695:ASP:OD1	1:E:697:ILE:HB	2.21	0.40
1:E:755:ASN:N	1:E:756:PRO:HD3	2.37	0.40
1:F:591:LEU:HB3	1:F:628:PRO:HB3	2.03	0.40
1:F:742:LEU:HD23	1:F:742:LEU:HA	1.82	0.40
1:F:755:ASN:N	1:F:756:PRO:HD3	2.37	0.40
1:F:813:SER:HB2	1:F:861:TYR:O	2.21	0.40
1:G:591:LEU:O	1:G:629:GLN:CG	2.70	0.40
1:G:656:HIS:NE2	1:G:722:HIS:HE1	2.18	0.40
1:G:827:LYS:HA	1:G:827:LYS:HD3	1.85	0.40
1:H:233:SER:O	1:H:236:MET:HG3	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	865/894 (97%)	770 (89%)	94 (11%)	1 (0%)	51	85
1	B	865/894 (97%)	770 (89%)	94 (11%)	1 (0%)	51	85
1	C	865/894 (97%)	772 (89%)	92 (11%)	1 (0%)	51	85
1	D	865/894 (97%)	771 (89%)	93 (11%)	1 (0%)	51	85
1	E	865/894 (97%)	771 (89%)	93 (11%)	1 (0%)	51	85
1	F	865/894 (97%)	770 (89%)	94 (11%)	1 (0%)	51	85
1	G	417/894 (47%)	380 (91%)	37 (9%)	0	100	100
1	H	446/894 (50%)	421 (94%)	25 (6%)	0	100	100
All	All	6053/7152 (85%)	5425 (90%)	622 (10%)	6 (0%)	54	85

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	448	ARG
1	B	448	ARG
1	C	448	ARG
1	D	448	ARG
1	E	448	ARG
1	F	448	ARG

5.3.2　Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	687/707 (97%)	571 (83%)	116 (17%)	2	13
1	B	687/707 (97%)	572 (83%)	115 (17%)	2	14
1	C	687/707 (97%)	571 (83%)	116 (17%)	2	13
1	D	687/707 (97%)	572 (83%)	115 (17%)	2	14
1	E	687/707 (97%)	571 (83%)	116 (17%)	2	13
1	F	687/707 (97%)	572 (83%)	115 (17%)	2	14
1	G	338/707 (48%)	337 (100%)	1 (0%)	92	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	H	349/707 (49%)	347 (99%)	2 (1%)	86	92
All	All	4809/5656 (85%)	4113 (86%)	696 (14%)	6	18

All (696) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	6	LEU
1	A	9	LEU
1	A	17	LYS
1	A	36	ARG
1	A	40	LEU
1	A	44	GLN
1	A	46	ARG
1	A	49	LEU
1	A	52	MET
1	A	59	MET
1	A	67	ILE
1	A	73	SER
1	A	76	ILE
1	A	81	LYS
1	A	82	ASP
1	A	86	CYS
1	A	98	MET
1	A	125	LEU
1	A	128	LEU
1	A	129	LYS
1	A	132	ASN
1	A	141	ARG
1	A	164	LYS
1	A	167	ILE
1	A	172	GLN
1	A	181	LEU
1	A	182	MET
1	A	189	LEU
1	A	200	LYS
1	A	233	SER
1	A	234	ILE
1	A	236	MET
1	A	238	LYS
1	A	240	PHE
1	A	257	GLU
1	A	260	ASP

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Mol	Chain	Res	Type
1	A	264	GLU
1	A	285	VAL
1	A	296	ILE
1	A	297	VAL
1	A	307	MET
1	A	319	LEU
1	A	322	GLU
1	A	360	MET
1	A	361	VAL
1	A	377	ASP
1	A	384	ARG
1	A	389	LYS
1	A	394	ARG
1	A	396	LEU
1	A	401	THR
1	A	413	ASN
1	A	425	TRP
1	A	439	LEU
1	A	442	LYS
1	A	448	ARG
1	A	452	MET
1	A	453	LEU
1	A	457	LEU
1	A	459	LYS
1	A	464	ARG
1	A	468	LEU
1	A	475	LEU
1	A	476	GLU
1	A	487	ARG
1	A	498	VAL
1	A	499	VAL
1	A	502	LEU
1	A	505	GLN
1	A	511	THR
1	A	515	VAL
1	A	516	GLU
1	A	521	LEU
1	A	523	VAL
1	A	526	LYS
1	A	537	ASP
1	A	540	LEU
1	A	542	LEU

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Mol	Chain	Res	Type
1	A	548	MET
1	A	554	MET
1	A	557	MET
1	A	562	ASP
1	A	566	GLU
1	A	570	MET
1	A	574	ASP
1	A	575	ILE
1	A	582	PHE
1	A	584	LYS
1	A	585	MET
1	A	587	LYS
1	A	590	GLU
1	A	591	LEU
1	A	621	LEU
1	A	637	LEU
1	A	638	VAL
1	A	639	MET
1	A	673	GLN
1	A	676	GLN
1	A	685	LEU
1	A	697	ILE
1	A	717	PHE
1	A	718	LEU
1	A	724	MET
1	A	728	ILE
1	A	744	ILE
1	A	748	VAL
1	A	749	ARG
1	A	773	ARG
1	A	781	LEU
1	A	798	LEU
1	A	803	GLU
1	A	823	ASP
1	A	831	LEU
1	A	847	TYR
1	A	849	LEU
1	A	855	GLU
1	B	6	LEU
1	B	9	LEU
1	B	17	LYS
1	B	36	ARG

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Mol	Chain	Res	Type
1	B	40	LEU
1	B	44	GLN
1	B	46	ARG
1	B	49	LEU
1	B	52	MET
1	B	59	MET
1	B	67	ILE
1	B	73	SER
1	B	76	ILE
1	B	81	LYS
1	B	82	ASP
1	B	86	CYS
1	B	98	MET
1	B	125	LEU
1	B	128	LEU
1	B	129	LYS
1	B	141	ARG
1	B	164	LYS
1	B	167	ILE
1	B	172	GLN
1	B	181	LEU
1	B	182	MET
1	B	189	LEU
1	B	200	LYS
1	B	233	SER
1	B	234	ILE
1	B	236	MET
1	B	238	LYS
1	B	240	PHE
1	B	257	GLU
1	B	260	ASP
1	B	264	GLU
1	B	285	VAL
1	B	296	ILE
1	B	297	VAL
1	B	307	MET
1	B	319	LEU
1	B	322	GLU
1	B	360	MET
1	B	361	VAL
1	B	377	ASP
1	B	384	ARG

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Mol	Chain	Res	Type
1	B	389	LYS
1	B	394	ARG
1	B	396	LEU
1	B	401	THR
1	B	413	ASN
1	B	425	TRP
1	B	439	LEU
1	B	442	LYS
1	B	448	ARG
1	B	452	MET
1	B	453	LEU
1	B	457	LEU
1	B	459	LYS
1	B	464	ARG
1	B	468	LEU
1	B	475	LEU
1	B	476	GLU
1	B	487	ARG
1	B	498	VAL
1	B	499	VAL
1	B	502	LEU
1	B	505	GLN
1	B	511	THR
1	B	515	VAL
1	B	516	GLU
1	B	521	LEU
1	B	523	VAL
1	B	526	LYS
1	B	537	ASP
1	B	540	LEU
1	B	542	LEU
1	B	548	MET
1	B	554	MET
1	B	557	MET
1	B	562	ASP
1	B	566	GLU
1	B	570	MET
1	B	574	ASP
1	B	575	ILE
1	B	582	PHE
1	B	584	LYS
1	B	585	MET

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Mol	Chain	Res	Type
1	B	587	LYS
1	B	590	GLU
1	B	591	LEU
1	B	621	LEU
1	B	637	LEU
1	B	638	VAL
1	B	639	MET
1	B	673	GLN
1	B	676	GLN
1	B	685	LEU
1	B	697	ILE
1	B	717	PHE
1	B	718	LEU
1	B	724	MET
1	B	728	ILE
1	B	744	ILE
1	B	748	VAL
1	B	749	ARG
1	B	773	ARG
1	B	781	LEU
1	B	798	LEU
1	B	803	GLU
1	B	823	ASP
1	B	831	LEU
1	B	847	TYR
1	B	849	LEU
1	B	855	GLU
1	C	6	LEU
1	C	9	LEU
1	C	17	LYS
1	C	36	ARG
1	C	40	LEU
1	C	44	GLN
1	C	46	ARG
1	C	49	LEU
1	C	52	MET
1	C	59	MET
1	C	67	ILE
1	C	73	SER
1	C	76	ILE
1	C	81	LYS
1	C	82	ASP

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Mol	Chain	Res	Type
1	C	86	CYS
1	C	98	MET
1	C	125	LEU
1	C	128	LEU
1	C	129	LYS
1	C	132	ASN
1	C	141	ARG
1	C	164	LYS
1	C	167	ILE
1	C	172	GLN
1	C	181	LEU
1	C	182	MET
1	C	189	LEU
1	C	200	LYS
1	C	233	SER
1	C	234	ILE
1	C	236	MET
1	C	238	LYS
1	C	240	PHE
1	C	257	GLU
1	C	260	ASP
1	C	264	GLU
1	C	285	VAL
1	C	296	ILE
1	C	297	VAL
1	C	307	MET
1	C	319	LEU
1	C	322	GLU
1	C	360	MET
1	C	361	VAL
1	C	377	ASP
1	C	384	ARG
1	C	389	LYS
1	C	394	ARG
1	C	396	LEU
1	C	401	THR
1	C	413	ASN
1	C	425	TRP
1	C	439	LEU
1	C	442	LYS
1	C	448	ARG
1	C	452	MET

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Mol	Chain	Res	Type
1	C	453	LEU
1	C	457	LEU
1	C	459	LYS
1	C	464	ARG
1	C	468	LEU
1	C	475	LEU
1	C	476	GLU
1	C	487	ARG
1	C	498	VAL
1	C	499	VAL
1	C	502	LEU
1	C	505	GLN
1	C	511	THR
1	C	515	VAL
1	C	516	GLU
1	C	521	LEU
1	C	523	VAL
1	C	526	LYS
1	C	537	ASP
1	C	540	LEU
1	C	542	LEU
1	C	548	MET
1	C	554	MET
1	C	557	MET
1	C	562	ASP
1	C	566	GLU
1	C	570	MET
1	C	574	ASP
1	C	575	ILE
1	C	582	PHE
1	C	584	LYS
1	C	585	MET
1	C	587	LYS
1	C	590	GLU
1	C	591	LEU
1	C	621	LEU
1	C	637	LEU
1	C	638	VAL
1	C	639	MET
1	C	673	GLN
1	C	676	GLN
1	C	685	LEU

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Mol	Chain	Res	Type
1	C	697	ILE
1	C	717	PHE
1	C	718	LEU
1	C	724	MET
1	C	728	ILE
1	C	744	ILE
1	C	748	VAL
1	C	749	ARG
1	C	773	ARG
1	C	781	LEU
1	C	798	LEU
1	C	803	GLU
1	C	823	ASP
1	C	831	LEU
1	C	847	TYR
1	C	849	LEU
1	C	855	GLU
1	D	6	LEU
1	D	9	LEU
1	D	17	LYS
1	D	36	ARG
1	D	40	LEU
1	D	44	GLN
1	D	46	ARG
1	D	49	LEU
1	D	52	MET
1	D	59	MET
1	D	67	ILE
1	D	73	SER
1	D	76	ILE
1	D	81	LYS
1	D	82	ASP
1	D	86	CYS
1	D	98	MET
1	D	125	LEU
1	D	128	LEU
1	D	129	LYS
1	D	141	ARG
1	D	164	LYS
1	D	167	ILE
1	D	172	GLN
1	D	181	LEU

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Mol	Chain	Res	Type
1	D	182	MET
1	D	189	LEU
1	D	200	LYS
1	D	233	SER
1	D	234	ILE
1	D	236	MET
1	D	238	LYS
1	D	240	PHE
1	D	257	GLU
1	D	260	ASP
1	D	264	GLU
1	D	285	VAL
1	D	296	ILE
1	D	297	VAL
1	D	307	MET
1	D	319	LEU
1	D	322	GLU
1	D	360	MET
1	D	361	VAL
1	D	377	ASP
1	D	384	ARG
1	D	389	LYS
1	D	394	ARG
1	D	396	LEU
1	D	401	THR
1	D	413	ASN
1	D	425	TRP
1	D	439	LEU
1	D	442	LYS
1	D	448	ARG
1	D	452	MET
1	D	453	LEU
1	D	457	LEU
1	D	459	LYS
1	D	464	ARG
1	D	468	LEU
1	D	475	LEU
1	D	476	GLU
1	D	487	ARG
1	D	498	VAL
1	D	499	VAL
1	D	502	LEU

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Mol	Chain	Res	Type
1	D	505	GLN
1	D	511	THR
1	D	515	VAL
1	D	516	GLU
1	D	521	LEU
1	D	523	VAL
1	D	526	LYS
1	D	537	ASP
1	D	540	LEU
1	D	542	LEU
1	D	548	MET
1	D	554	MET
1	D	557	MET
1	D	562	ASP
1	D	566	GLU
1	D	570	MET
1	D	574	ASP
1	D	575	ILE
1	D	582	PHE
1	D	584	LYS
1	D	585	MET
1	D	587	LYS
1	D	590	GLU
1	D	591	LEU
1	D	621	LEU
1	D	637	LEU
1	D	638	VAL
1	D	639	MET
1	D	673	GLN
1	D	676	GLN
1	D	685	LEU
1	D	697	ILE
1	D	717	PHE
1	D	718	LEU
1	D	724	MET
1	D	728	ILE
1	D	744	ILE
1	D	748	VAL
1	D	749	ARG
1	D	773	ARG
1	D	781	LEU
1	D	798	LEU

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Mol	Chain	Res	Type
1	D	803	GLU
1	D	823	ASP
1	D	831	LEU
1	D	847	TYR
1	D	849	LEU
1	D	855	GLU
1	E	6	LEU
1	E	9	LEU
1	E	17	LYS
1	E	36	ARG
1	E	40	LEU
1	E	44	GLN
1	E	46	ARG
1	E	49	LEU
1	E	52	MET
1	E	59	MET
1	E	67	ILE
1	E	73	SER
1	E	76	ILE
1	E	81	LYS
1	E	82	ASP
1	E	86	CYS
1	E	98	MET
1	E	125	LEU
1	E	128	LEU
1	E	129	LYS
1	E	132	ASN
1	E	141	ARG
1	E	164	LYS
1	E	167	ILE
1	E	172	GLN
1	E	181	LEU
1	E	182	MET
1	E	189	LEU
1	E	200	LYS
1	E	233	SER
1	E	234	ILE
1	E	236	MET
1	E	238	LYS
1	E	240	PHE
1	E	257	GLU
1	E	260	ASP

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Mol	Chain	Res	Type
1	E	264	GLU
1	E	285	VAL
1	E	296	ILE
1	E	297	VAL
1	E	307	MET
1	E	319	LEU
1	E	322	GLU
1	E	360	MET
1	E	361	VAL
1	E	377	ASP
1	E	384	ARG
1	E	389	LYS
1	E	394	ARG
1	E	396	LEU
1	E	401	THR
1	E	413	ASN
1	E	425	TRP
1	E	439	LEU
1	E	442	LYS
1	E	448	ARG
1	E	452	MET
1	E	453	LEU
1	E	457	LEU
1	E	459	LYS
1	E	464	ARG
1	E	468	LEU
1	E	475	LEU
1	E	476	GLU
1	E	487	ARG
1	E	498	VAL
1	E	499	VAL
1	E	502	LEU
1	E	505	GLN
1	E	511	THR
1	E	515	VAL
1	E	516	GLU
1	E	521	LEU
1	E	523	VAL
1	E	526	LYS
1	E	537	ASP
1	E	540	LEU
1	E	542	LEU

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Mol	Chain	Res	Type
1	E	548	MET
1	E	554	MET
1	E	557	MET
1	E	562	ASP
1	E	566	GLU
1	E	570	MET
1	E	574	ASP
1	E	575	ILE
1	E	582	PHE
1	E	584	LYS
1	E	585	MET
1	E	587	LYS
1	E	590	GLU
1	E	591	LEU
1	E	621	LEU
1	E	637	LEU
1	E	638	VAL
1	E	639	MET
1	E	673	GLN
1	E	676	GLN
1	E	685	LEU
1	E	697	ILE
1	E	717	PHE
1	E	718	LEU
1	E	724	MET
1	E	728	ILE
1	E	744	ILE
1	E	748	VAL
1	E	749	ARG
1	E	773	ARG
1	E	781	LEU
1	E	798	LEU
1	E	803	GLU
1	E	823	ASP
1	E	831	LEU
1	E	847	TYR
1	E	849	LEU
1	E	855	GLU
1	F	6	LEU
1	F	9	LEU
1	F	17	LYS
1	F	36	ARG

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Mol	Chain	Res	Type
1	F	40	LEU
1	F	44	GLN
1	F	46	ARG
1	F	49	LEU
1	F	52	MET
1	F	59	MET
1	F	67	ILE
1	F	73	SER
1	F	76	ILE
1	F	81	LYS
1	F	82	ASP
1	F	86	CYS
1	F	98	MET
1	F	125	LEU
1	F	128	LEU
1	F	129	LYS
1	F	141	ARG
1	F	164	LYS
1	F	167	ILE
1	F	172	GLN
1	F	181	LEU
1	F	182	MET
1	F	189	LEU
1	F	200	LYS
1	F	233	SER
1	F	234	ILE
1	F	236	MET
1	F	238	LYS
1	F	240	PHE
1	F	257	GLU
1	F	260	ASP
1	F	264	GLU
1	F	285	VAL
1	F	296	ILE
1	F	297	VAL
1	F	307	MET
1	F	319	LEU
1	F	322	GLU
1	F	360	MET
1	F	361	VAL
1	F	377	ASP
1	F	384	ARG

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Mol	Chain	Res	Type
1	F	389	LYS
1	F	394	ARG
1	F	396	LEU
1	F	401	THR
1	F	413	ASN
1	F	425	TRP
1	F	439	LEU
1	F	442	LYS
1	F	448	ARG
1	F	452	MET
1	F	453	LEU
1	F	457	LEU
1	F	459	LYS
1	F	464	ARG
1	F	468	LEU
1	F	475	LEU
1	F	476	GLU
1	F	487	ARG
1	F	498	VAL
1	F	499	VAL
1	F	502	LEU
1	F	505	GLN
1	F	511	THR
1	F	515	VAL
1	F	516	GLU
1	F	521	LEU
1	F	523	VAL
1	F	526	LYS
1	F	537	ASP
1	F	540	LEU
1	F	542	LEU
1	F	548	MET
1	F	554	MET
1	F	557	MET
1	F	562	ASP
1	F	566	GLU
1	F	570	MET
1	F	574	ASP
1	F	575	ILE
1	F	582	PHE
1	F	584	LYS
1	F	585	MET

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Mol	Chain	Res	Type
1	F	587	LYS
1	F	590	GLU
1	F	591	LEU
1	F	621	LEU
1	F	637	LEU
1	F	638	VAL
1	F	639	MET
1	F	673	GLN
1	F	676	GLN
1	F	685	LEU
1	F	697	ILE
1	F	717	PHE
1	F	718	LEU
1	F	724	MET
1	F	728	ILE
1	F	744	ILE
1	F	748	VAL
1	F	749	ARG
1	F	773	ARG
1	F	781	LEU
1	F	798	LEU
1	F	803	GLU
1	F	823	ASP
1	F	831	LEU
1	F	847	TYR
1	F	849	LEU
1	F	855	GLU
1	G	578	ARG
1	H	33	LYS
1	H	164	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (63) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	172	GLN
1	A	560	HIS
1	A	636	ASN
1	A	722	HIS
1	A	726	HIS
1	A	736	HIS
1	A	753	ASN
1	A	792	GLN

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Mol	Chain	Res	Type
1	B	78	ASN
1	B	132	ASN
1	B	172	GLN
1	B	560	HIS
1	B	636	ASN
1	B	722	HIS
1	B	726	HIS
1	B	736	HIS
1	B	753	ASN
1	B	792	GLN
1	C	172	GLN
1	C	560	HIS
1	C	636	ASN
1	C	722	HIS
1	C	726	HIS
1	C	736	HIS
1	C	753	ASN
1	C	792	GLN
1	D	132	ASN
1	D	172	GLN
1	D	560	HIS
1	D	636	ASN
1	D	722	HIS
1	D	726	HIS
1	D	736	HIS
1	D	753	ASN
1	D	792	GLN
1	E	172	GLN
1	E	560	HIS
1	E	636	ASN
1	E	722	HIS
1	E	726	HIS
1	E	736	HIS
1	E	753	ASN
1	E	792	GLN
1	F	78	ASN
1	F	132	ASN
1	F	172	GLN
1	F	560	HIS
1	F	636	ASN
1	F	722	HIS
1	F	726	HIS

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Mol	Chain	Res	Type
1	F	736	HIS
1	F	753	ASN
1	F	792	GLN
1	G	629	GLN
1	G	722	HIS
1	G	736	HIS
1	G	753	ASN
1	G	759	GLN
1	G	792	GLN
1	H	179	ASN
1	H	269	HIS
1	H	299	GLN
1	H	411	ASN

5.3.3   RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5   Carbohydrates ⓘ

There are no monosaccharides in this entry.

5.6   Ligand geometry ⓘ

There are no ligands in this entry.

5.7   Other polymers ⓘ

There are no such residues in this entry.

5.8   Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Map visualisation ⓘ

This section contains visualisations of the EMDB entry EMD-30625. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

6.1 Orthogonal projections ⓘ

6.1.1 Primary map

| X | Y | Z |
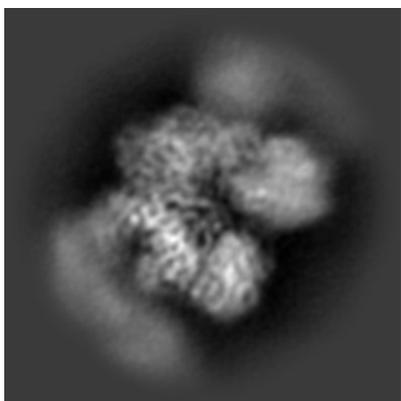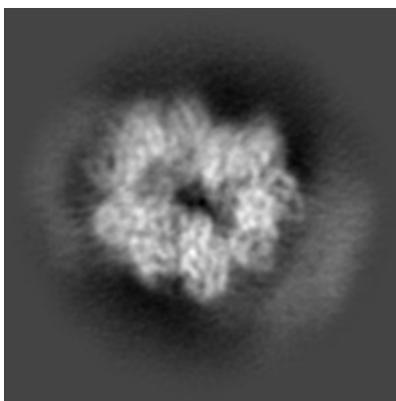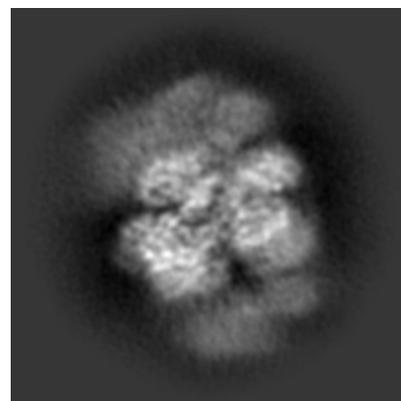
The images above show the map projected in three orthogonal directions.

6.2 Central slices ⓘ
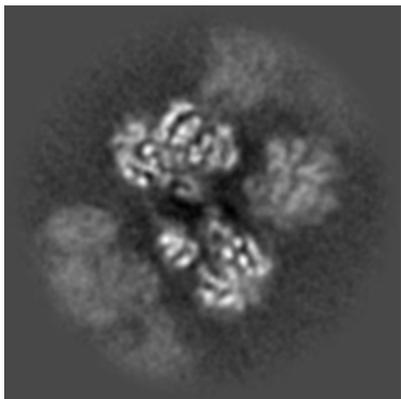
6.2.1 Primary map
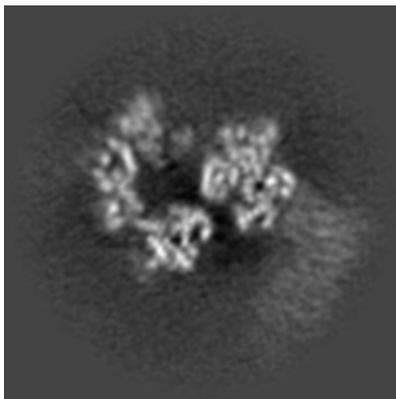
| X Index: 170 | Y Index: 170 | Z Index: 170 |
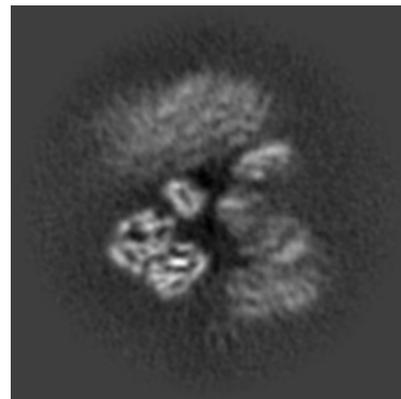
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices ⓘ
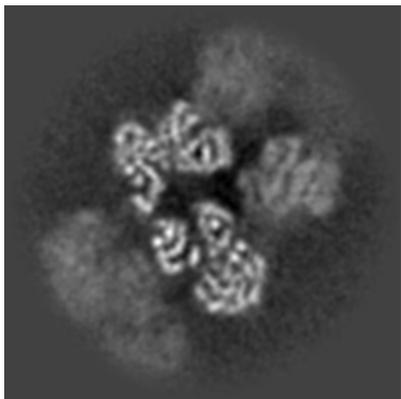
6.3.1 Primary map
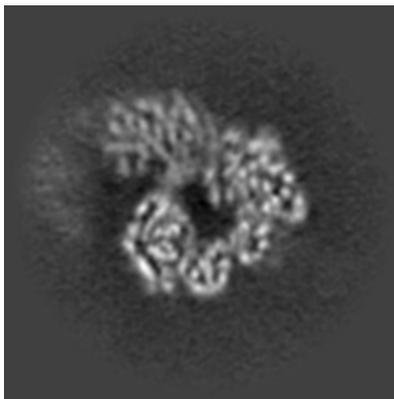
X Index: 162	Y Index: 149	Z Index: 125
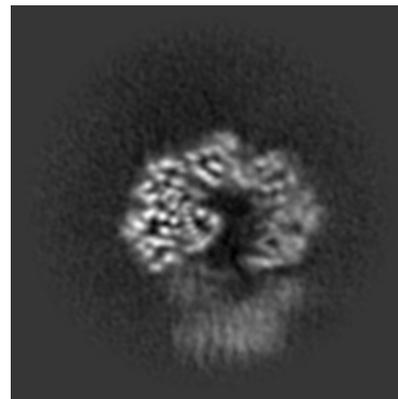
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map

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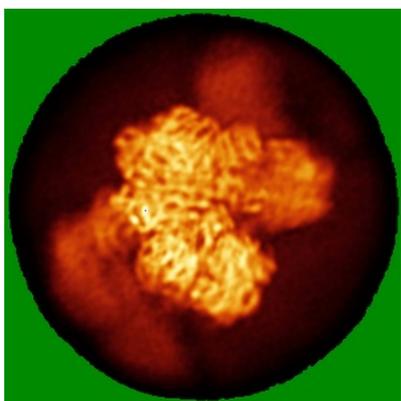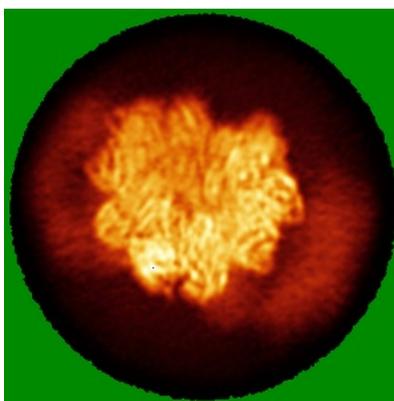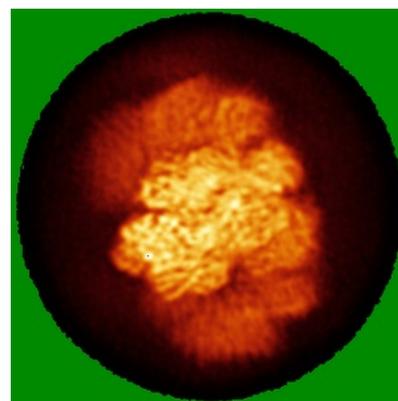
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views ⓘ

6.5.1 Primary map

X	Y	Z
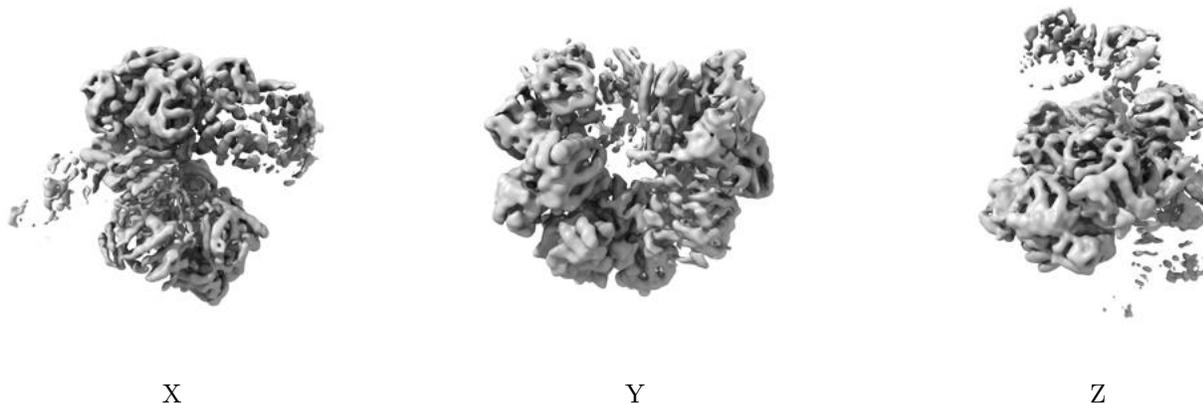
The images above show the 3D surface view of the map at the recommended contour level 0.31. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.6 Mask visualisation ⓘ

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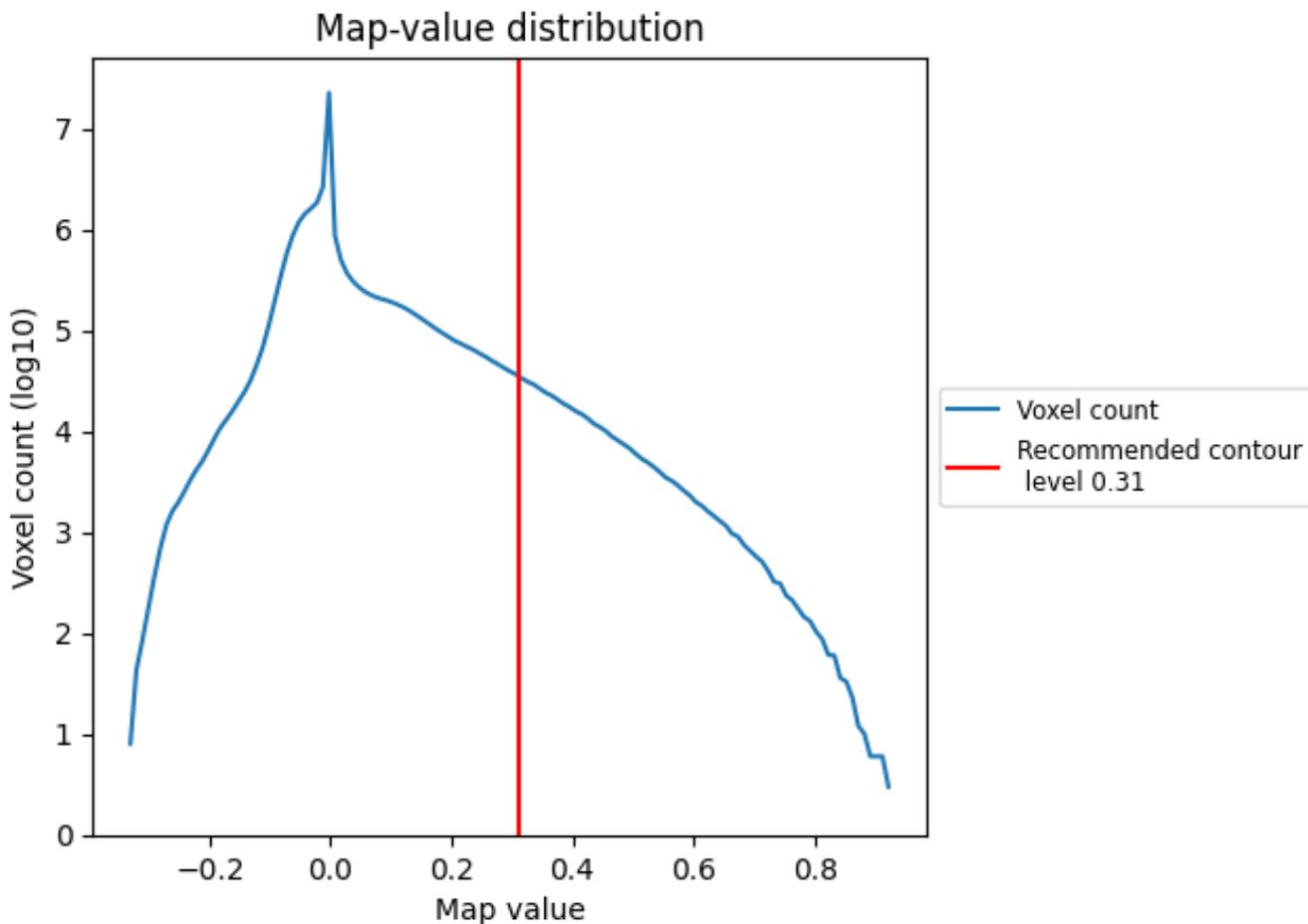
The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

7.2　Volume estimate ⓘ
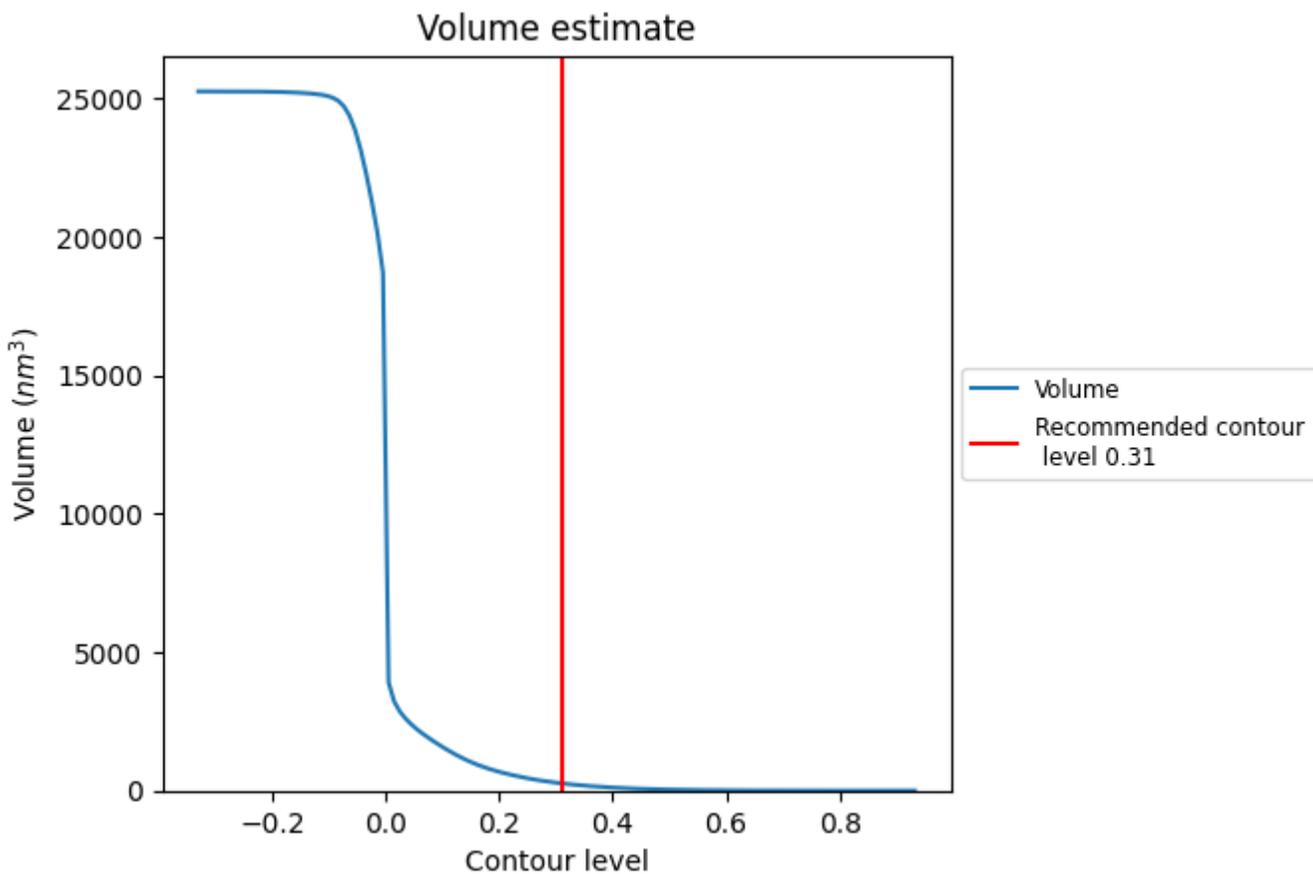
The volume at the recommended contour level is 262 nm^3; this corresponds to an approximate mass of 237 kDa.

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

7.3　Rotationally averaged power spectrum　ⓘ
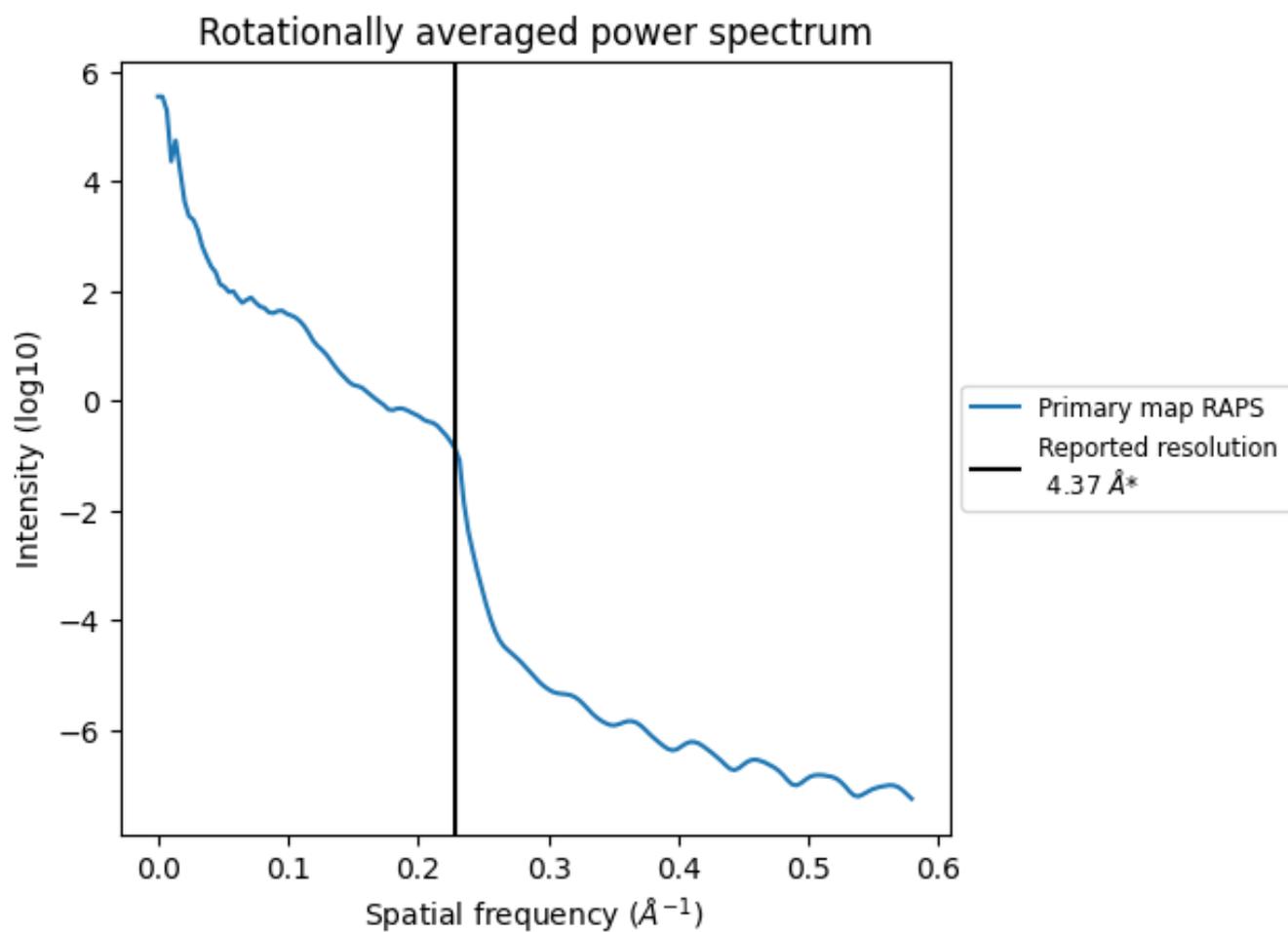
*Reported resolution corresponds to spatial frequency of 0.229 Å^{-1}

8 Fourier-Shell correlation ⓘ

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

9　Map-model fit ⓘ

This section contains information regarding the fit between EMDB map EMD-30625 and PDB model 7DAG. Per-residue inclusion information can be found in section 3 on page 4.

9.1　Map-model overlay ⓘ
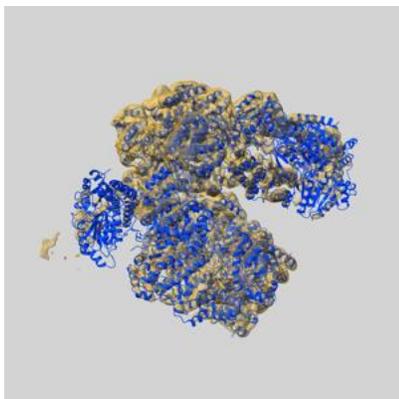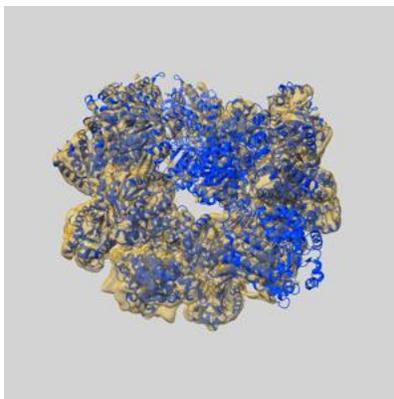
X　　　　　　　　　　　　　Y　　　　　　　　　　　　　Z
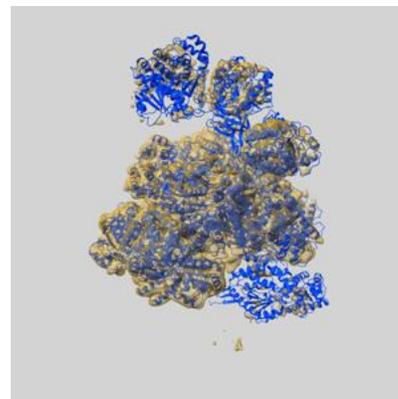
The images above show the 3D surface view of the map at the recommended contour level 0.31 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model ⓘ

X   Y   Z
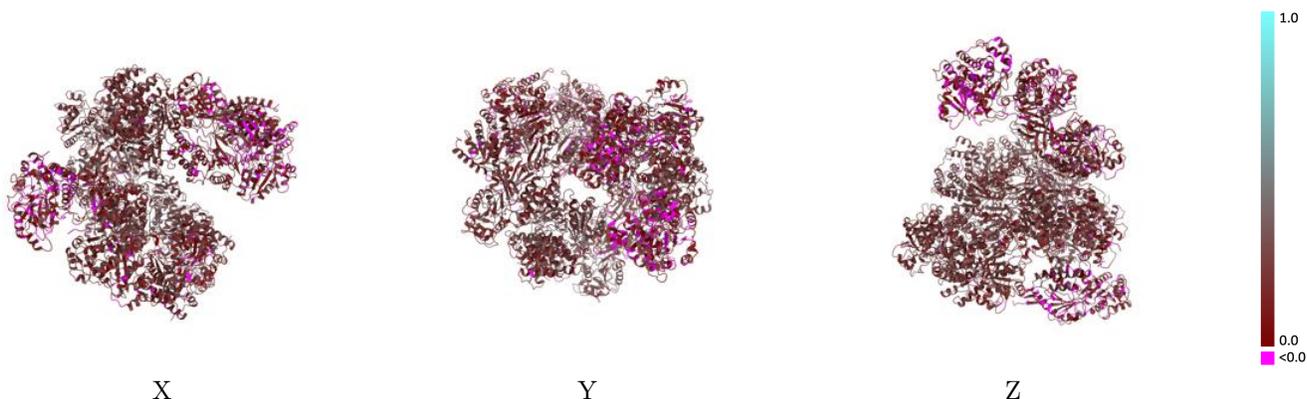
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 ⓘ

X   Y   Z
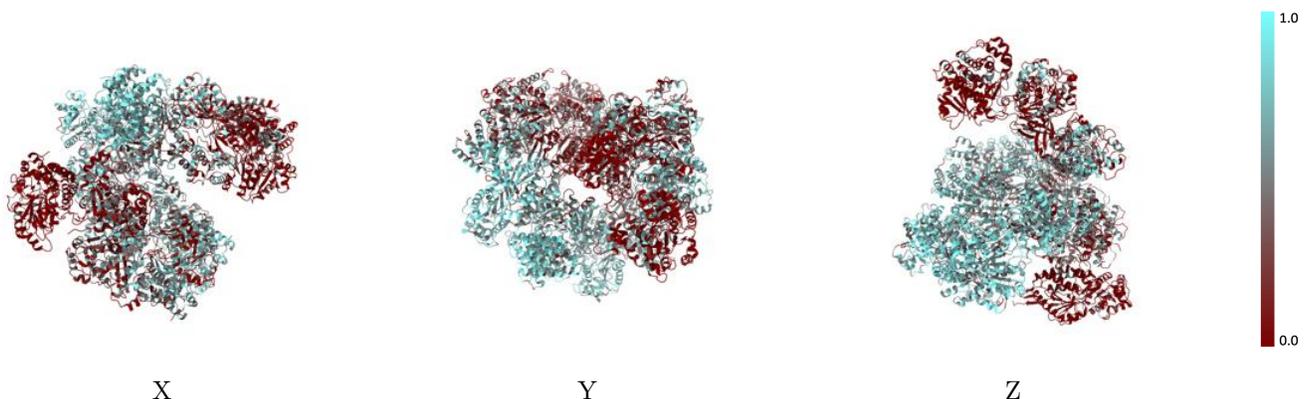
The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.31).

9.4   Atom inclusion ⓘ
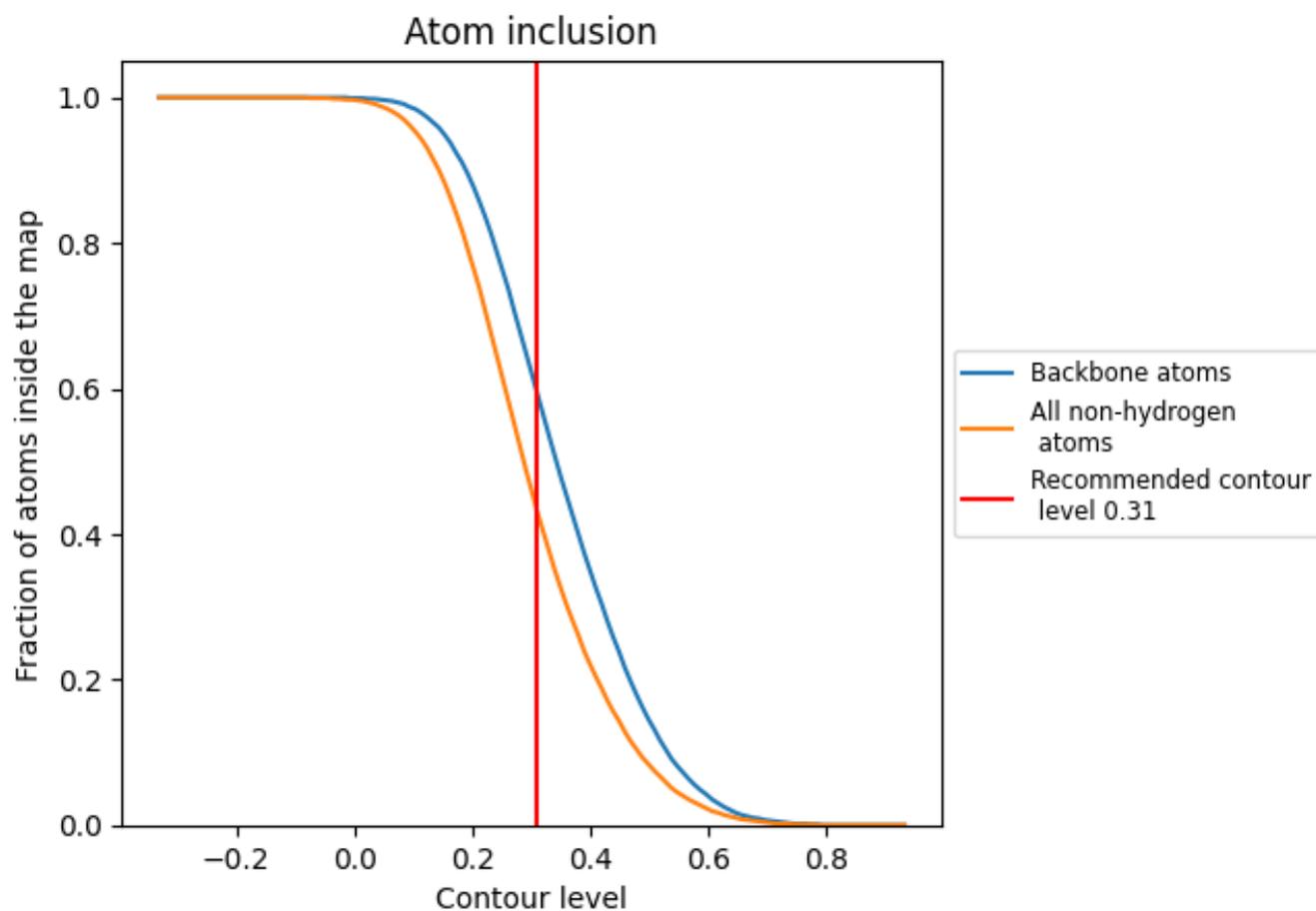
At the recommended contour level, 59% of all backbone atoms, 43% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.31) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.4310	0.1970
A	0.2300	0.1290
B	0.3540	0.1930
C	0.6610	0.2430
D	0.6820	0.2390
E	0.5310	0.2110
F	0.4650	0.2120
G	0.1490	0.1980
H	0.0410	0.1080

1.0

0.0
<0.0