Full wwPDB EM Validation Report ⓘ

Jun 26, 2025 – 08:46 AM JST

PDB ID	:	6JY0 / pdb_00006jy0
EMDB ID	:	EMD-9896
Title	:	CryoEM structure of S.typhimurium R-type straight flagellar filament made of FljB (A461V)
Authors	:	Yamaguchi, T.; Toma, S.; Terahara, N.; Miyata, T.; Minamino, T.; Ashikara, M.; Namba, K.; Kato, T.
Deposited on	:	2019-04-25
Resolution	:	3.56 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

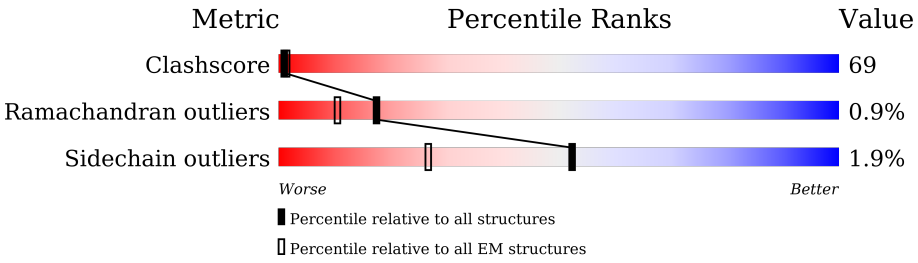
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.44

1 Overall quality at a glance

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

The reported resolution of this entry is 3.56 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	506	21% 40% 38% • 19%
1	B	506	21% 40% 38% • 19%
1	C	506	20% 40% 38% • 19%
1	D	506	22% 40% 38% • 19%
1	E	506	18% 40% 38% • 19%
1	F	506	20% 39% 40% • 19%
1	G	506	20% 39% 40% • 19%
1	H	506	19% 39% 40% • 19%

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Mol	Chain	Length	Quality of chain
1	I	506	18% 39% 40% 19%
1	J	506	19% 39% 39% 19%
1	K	506	17% 39% 40% 19%
1	L	506	18% 39% 40% 19%
1	M	506	19% 39% 40% 19%
1	N	506	18% 39% 40% 19%
1	O	506	20% 39% 39% 19%
1	P	506	17% 39% 39% 19%
1	Q	506	17% 39% 39% 19%
1	R	506	20% 41% 38% 19%
1	S	506	20% 41% 37% 19%
1	T	506	19% 41% 37% 19%
1	U	506	18% 41% 37% 19%
1	W	506	18% 41% 37% 19%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 66594 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Flagellin.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	B	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	C	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	D	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	E	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	F	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	G	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	H	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	I	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	J	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	K	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	L	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	M	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	N	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	O	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	P	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	Q	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	S	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	T	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	U	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		
1	W	410	Total	C	N	O	S	0	0
			3027	1833	544	648	2		

There are 22 discrepancies between the modelled and reference sequences:

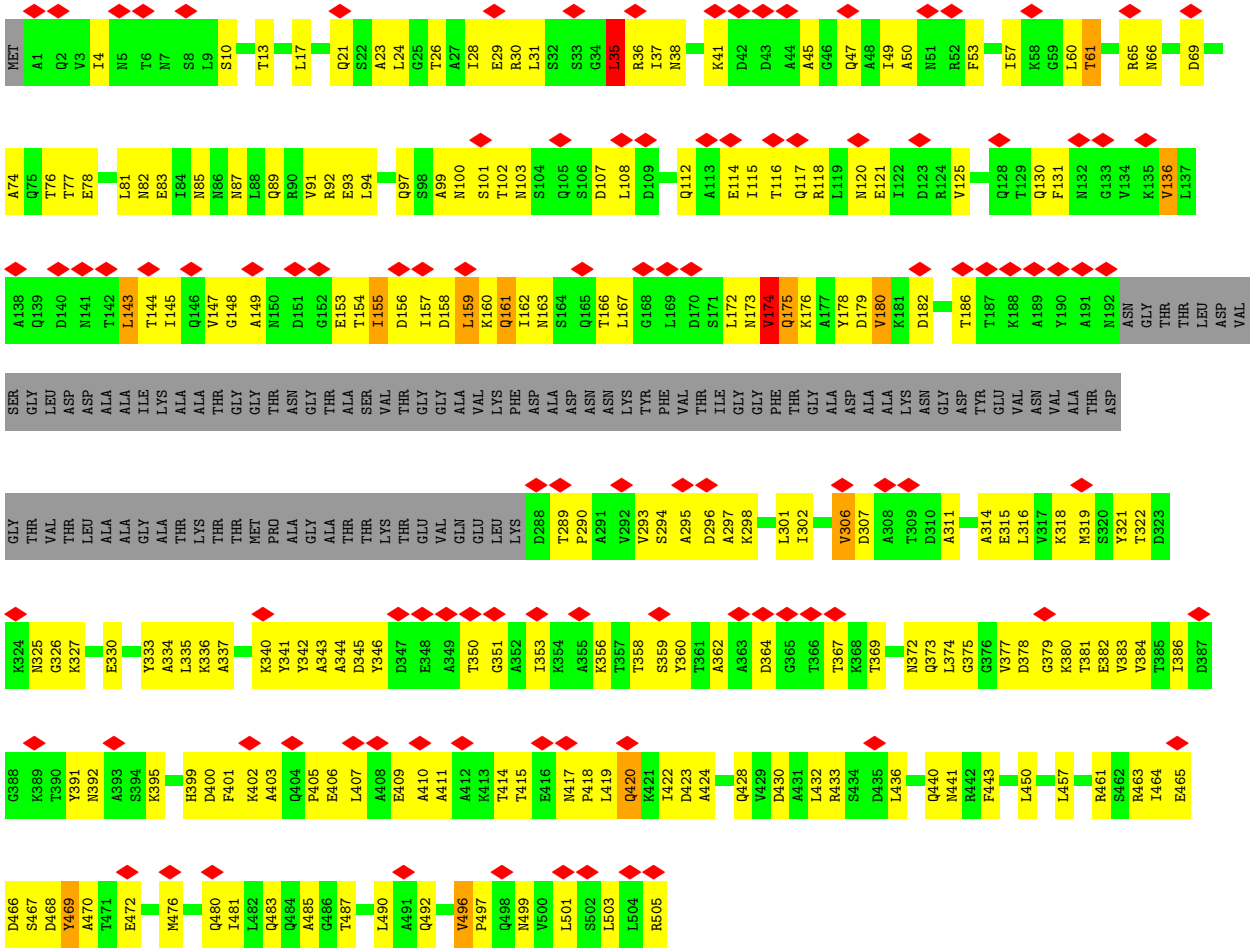
Chain	Residue	Modelled	Actual	Comment	Reference
A	460	VAL	ALA	engineered mutation	UNP Q549S3
B	460	VAL	ALA	engineered mutation	UNP Q549S3
C	460	VAL	ALA	engineered mutation	UNP Q549S3
D	460	VAL	ALA	engineered mutation	UNP Q549S3
E	460	VAL	ALA	engineered mutation	UNP Q549S3
F	460	VAL	ALA	engineered mutation	UNP Q549S3
G	460	VAL	ALA	engineered mutation	UNP Q549S3
H	460	VAL	ALA	engineered mutation	UNP Q549S3
I	460	VAL	ALA	engineered mutation	UNP Q549S3
J	460	VAL	ALA	engineered mutation	UNP Q549S3
K	460	VAL	ALA	engineered mutation	UNP Q549S3
L	460	VAL	ALA	engineered mutation	UNP Q549S3
M	460	VAL	ALA	engineered mutation	UNP Q549S3
N	460	VAL	ALA	engineered mutation	UNP Q549S3
O	460	VAL	ALA	engineered mutation	UNP Q549S3
P	460	VAL	ALA	engineered mutation	UNP Q549S3
Q	460	VAL	ALA	engineered mutation	UNP Q549S3
R	460	VAL	ALA	engineered mutation	UNP Q549S3
S	460	VAL	ALA	engineered mutation	UNP Q549S3
T	460	VAL	ALA	engineered mutation	UNP Q549S3
U	460	VAL	ALA	engineered mutation	UNP Q549S3
W	460	VAL	ALA	engineered mutation	UNP Q549S3

3 Residue-property plots (i)

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

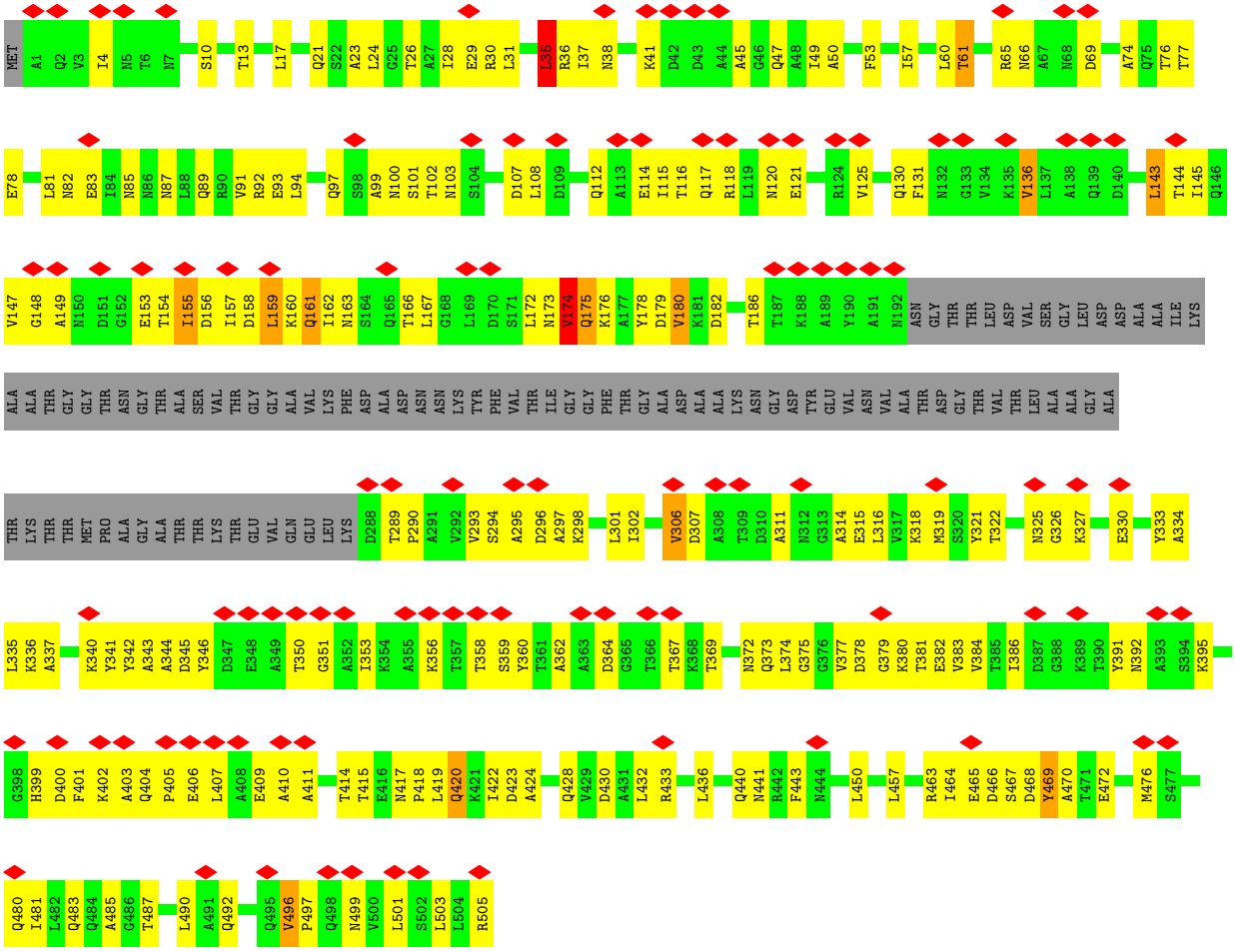
- Molecule 1: Flagellin

Chain A:



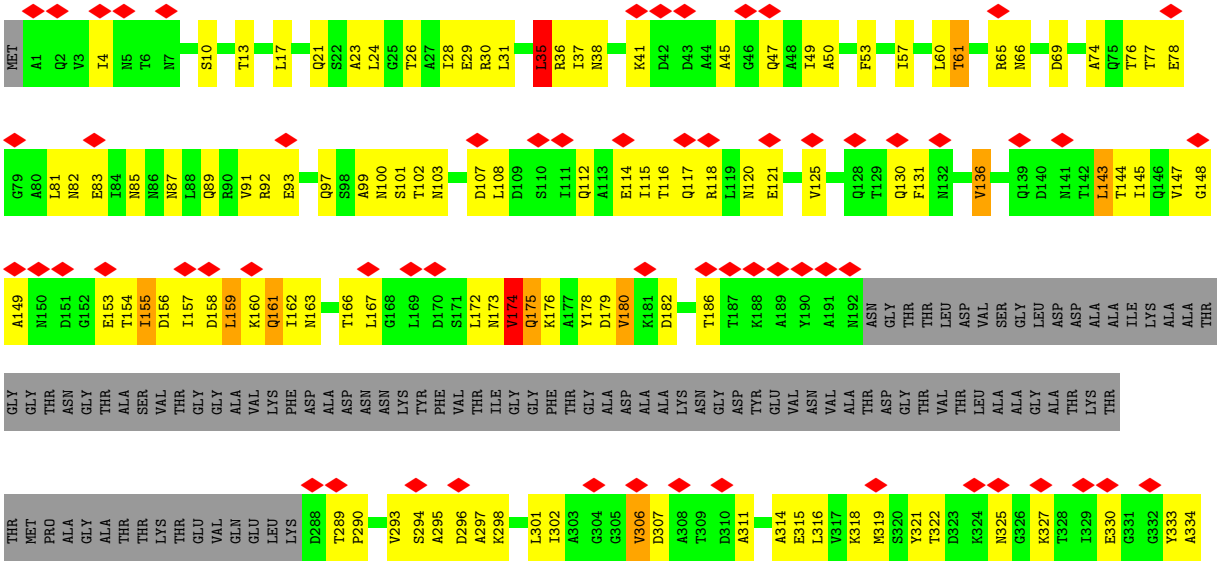
- Molecule 1: Flagellin

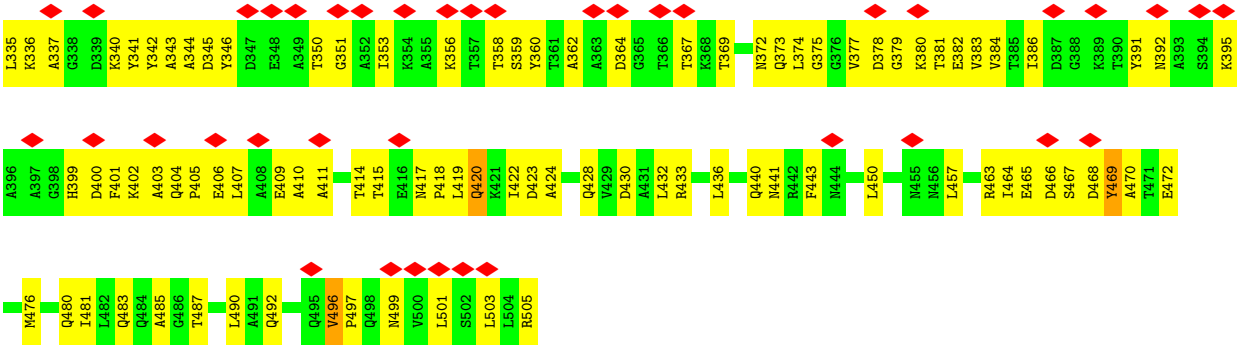
Chain B:



• Molecule 1: Flagellin

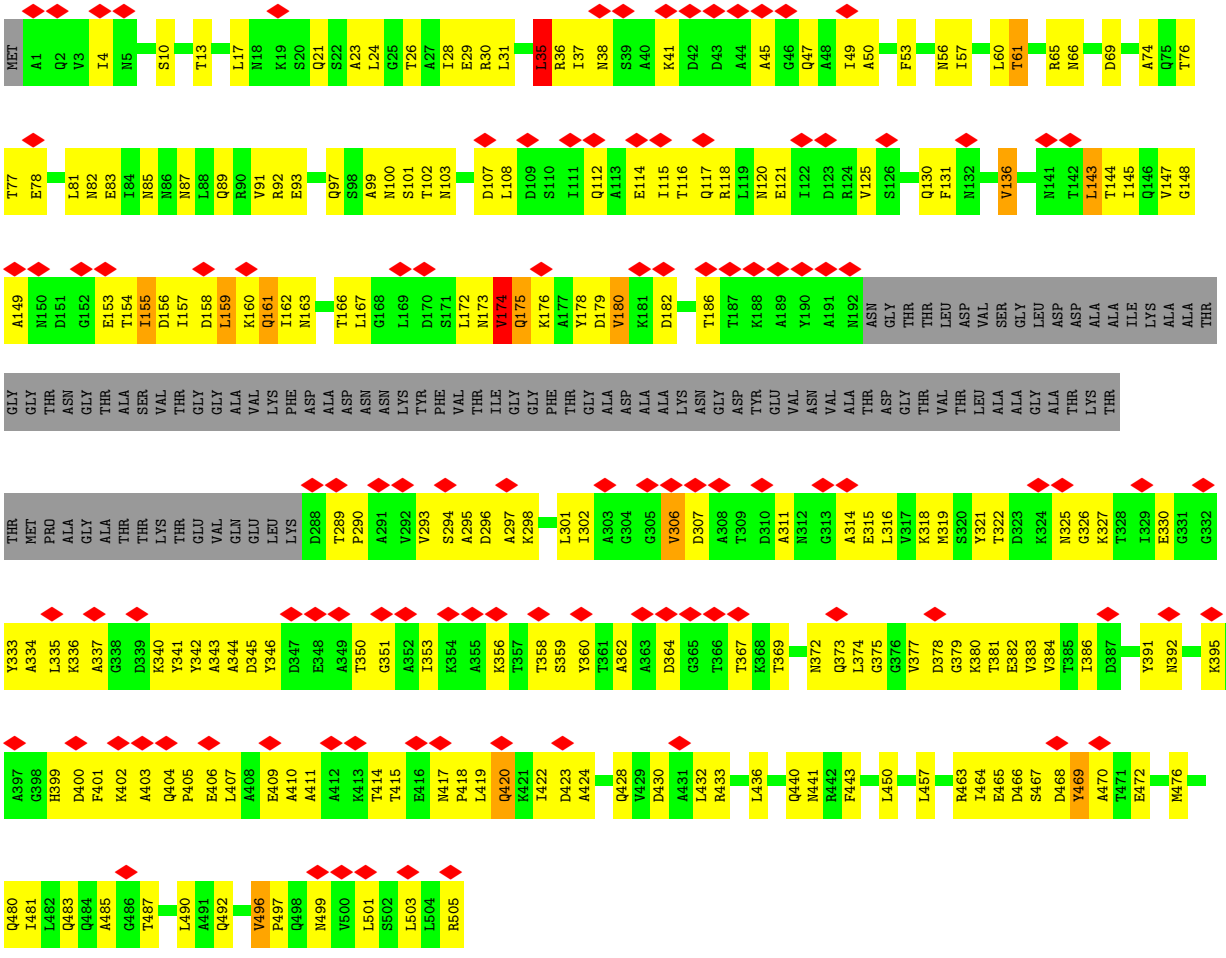
Chain C:





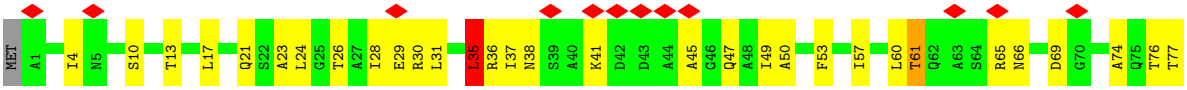
• Molecule 1: Flagellin

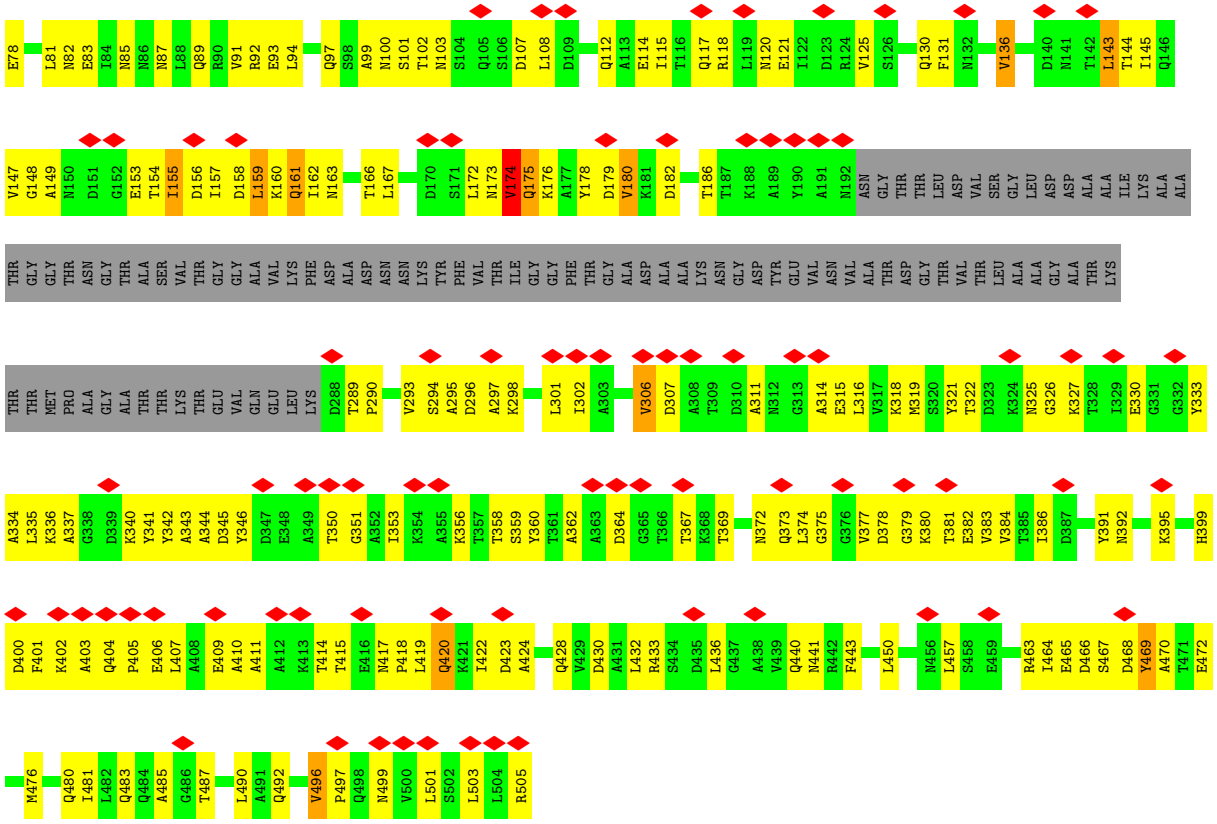
Chain D:



• Molecule 1: Flagellin

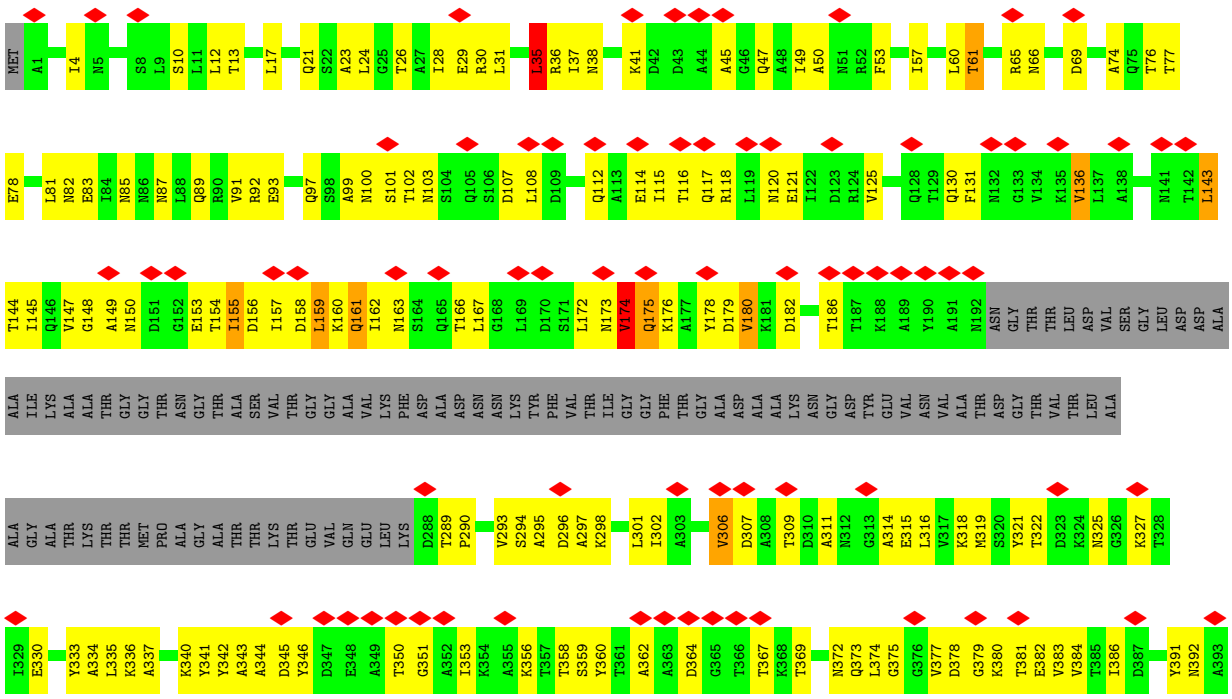
Chain E:

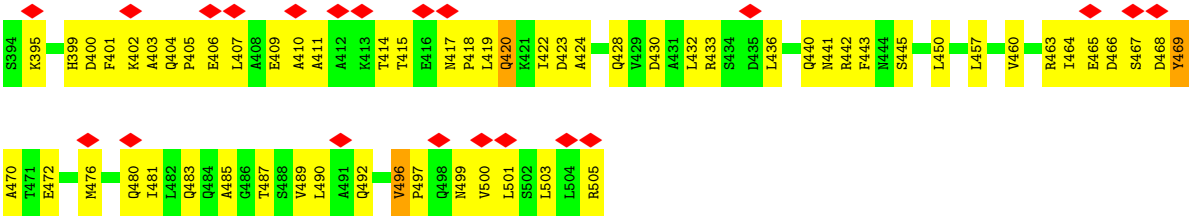




• Molecule 1: Flagellin

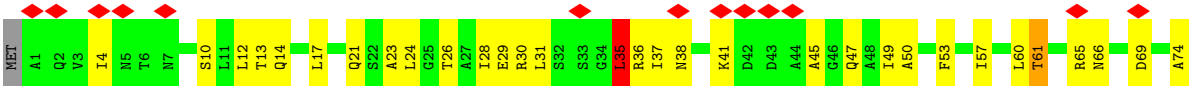
Chain F:

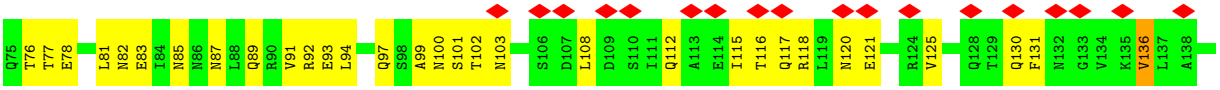


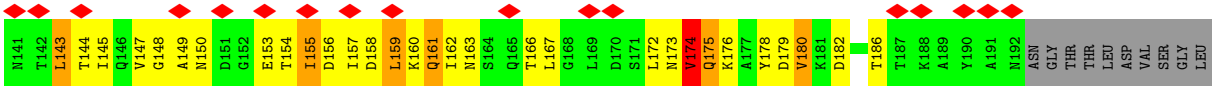


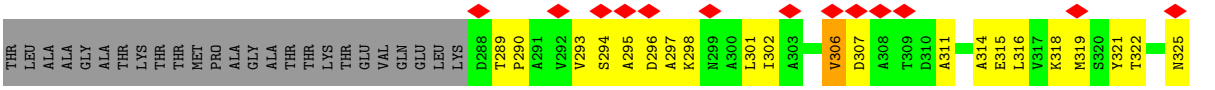
• Molecule 1: Flagellin

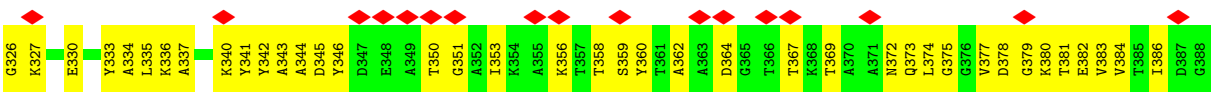
Chain G:

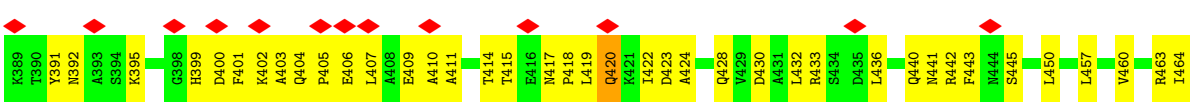


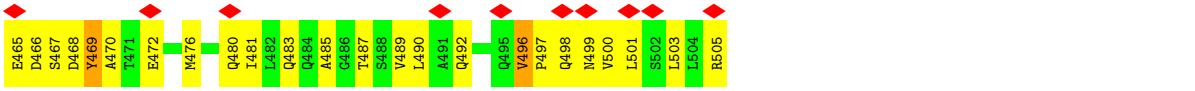


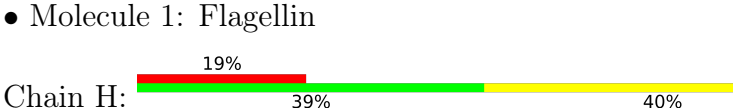






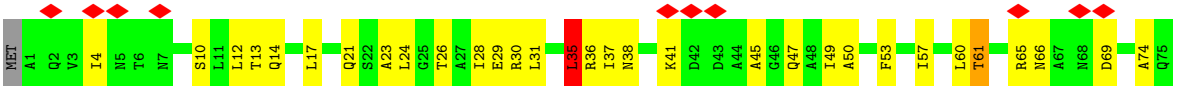


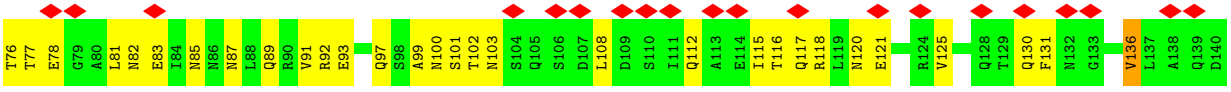


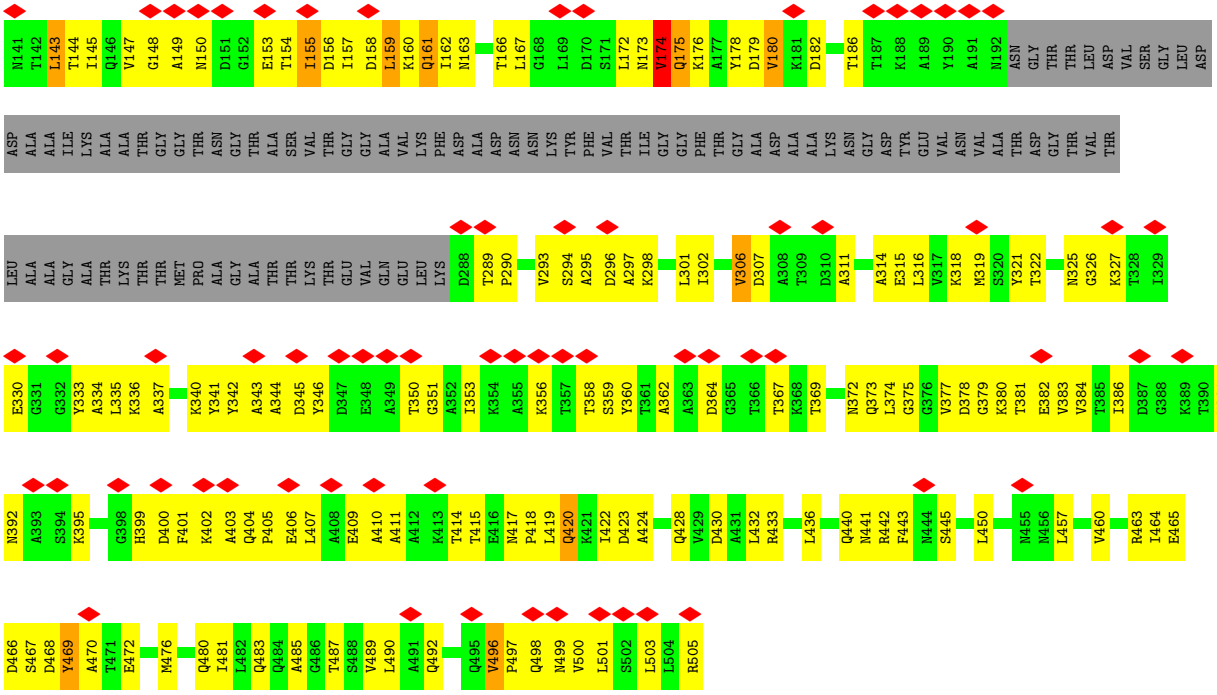


• Molecule 1: Flagellin

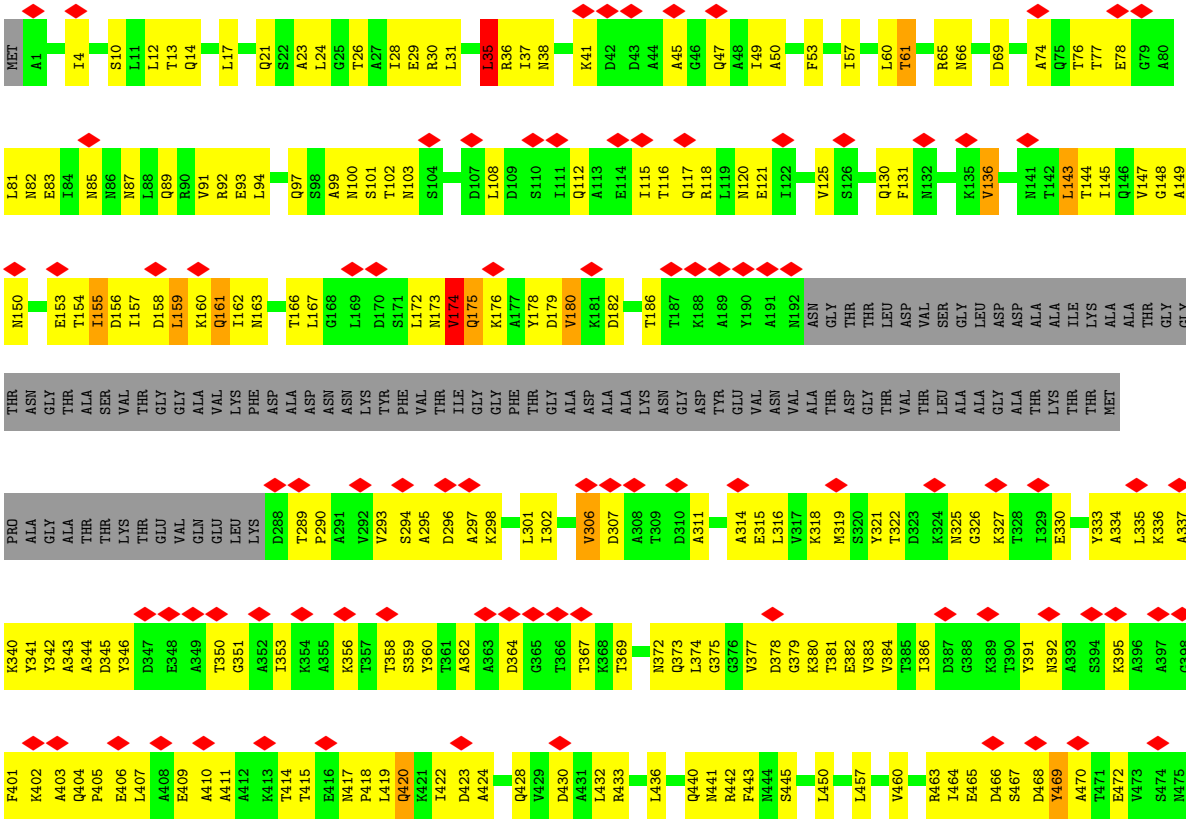
Chain H:

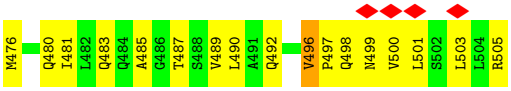






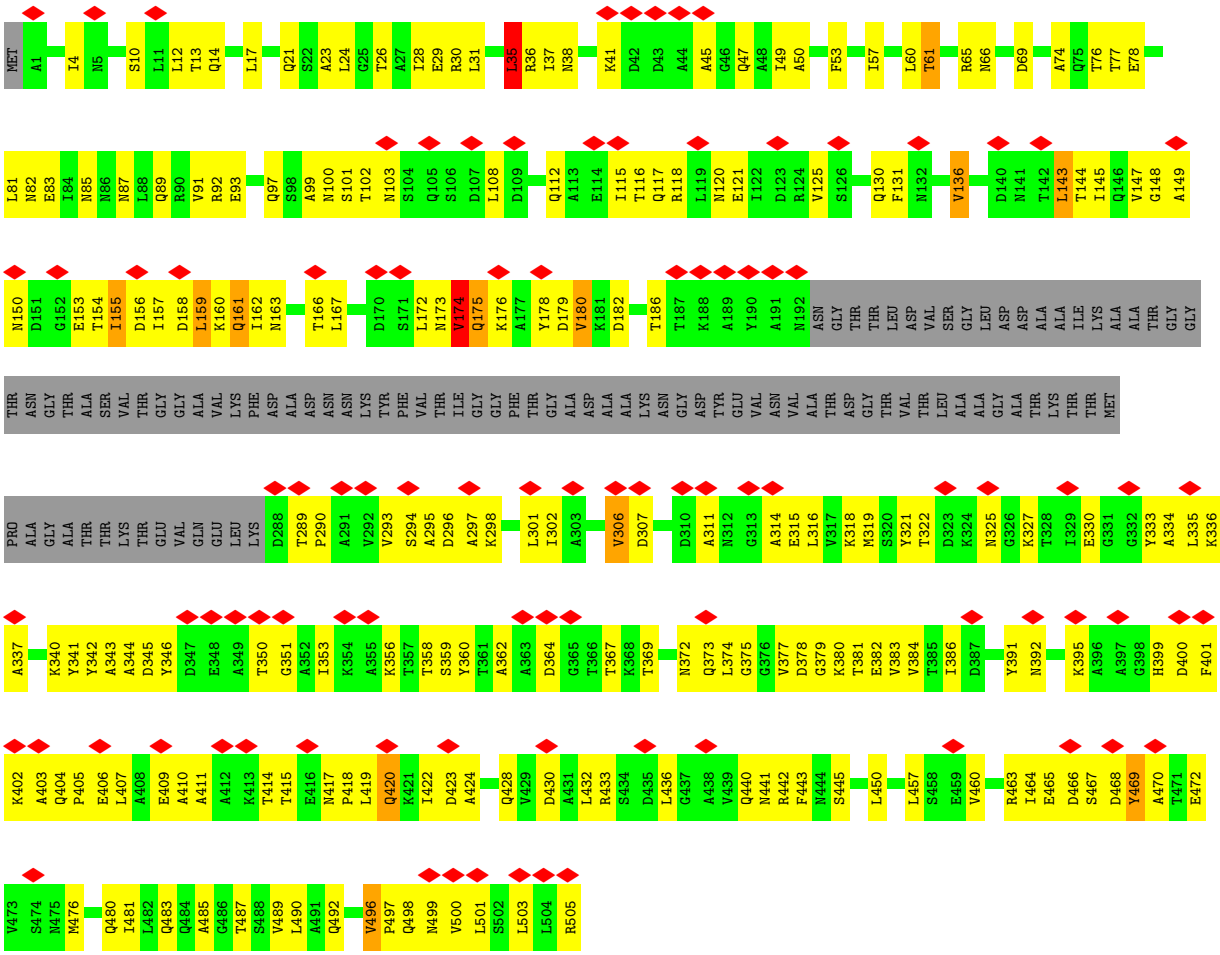
• Molecule 1: Flagellin





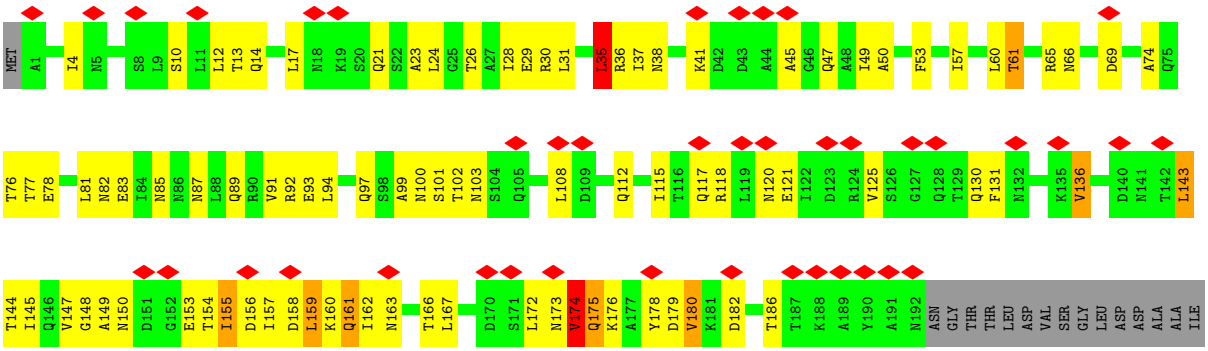
• Molecule 1: Flagellin

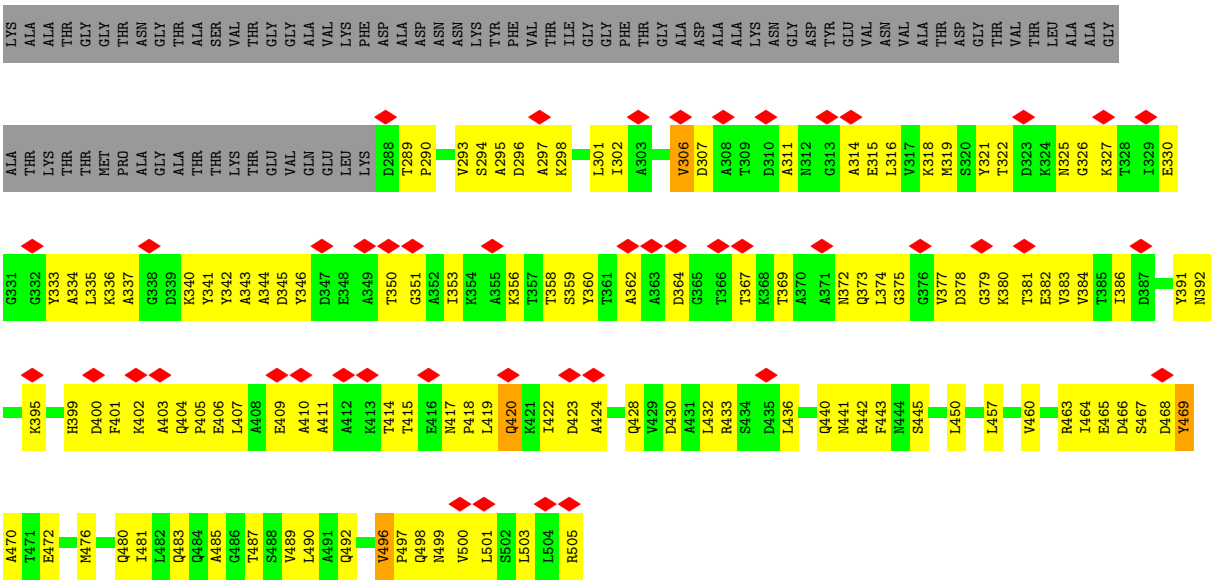
Chain J:



• Molecule 1: Flagellin

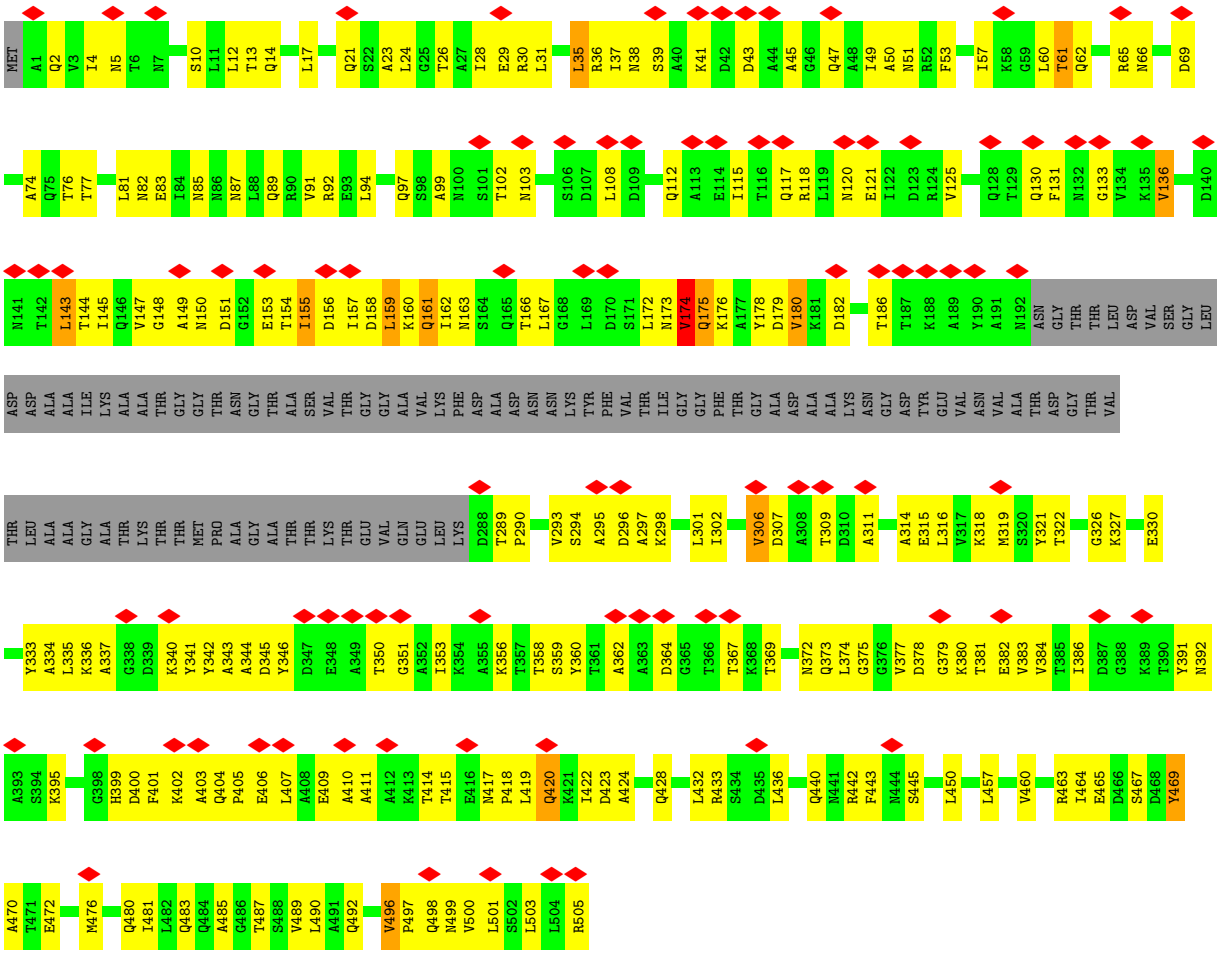
Chain K:



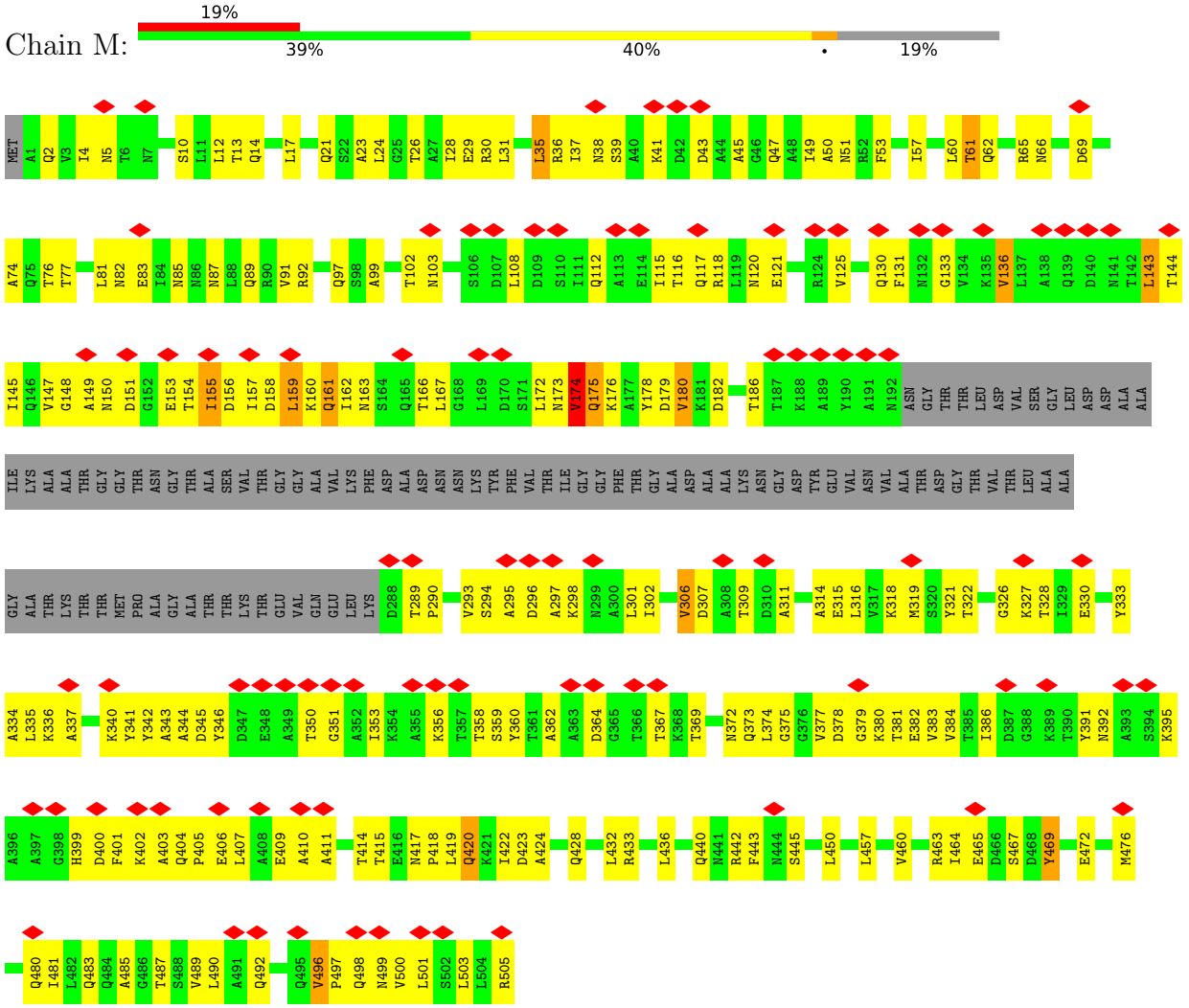


• Molecule 1: Flagellin

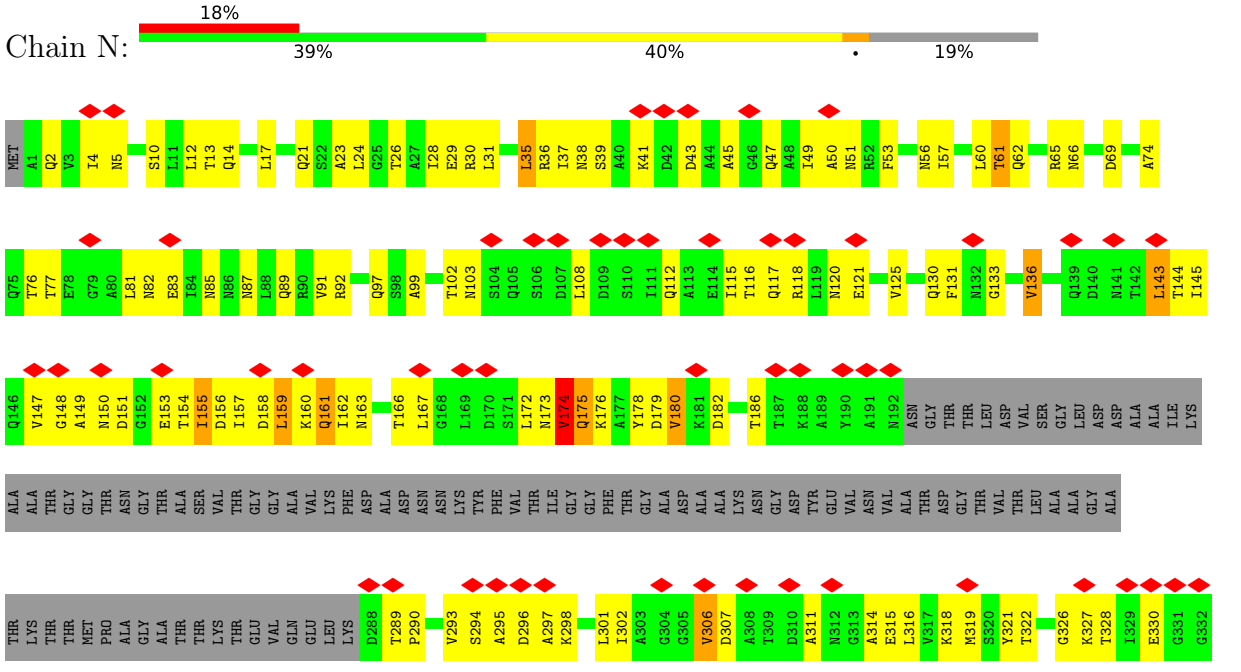
Chain L:

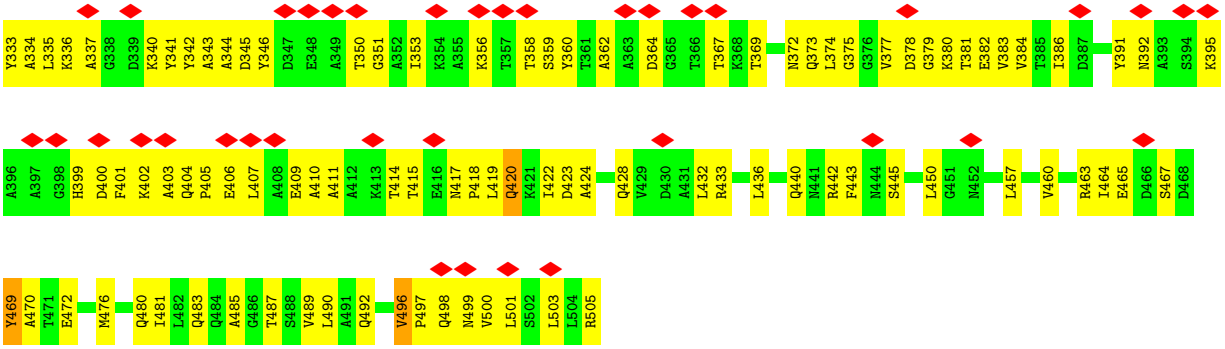


• Molecule 1: Flagellin



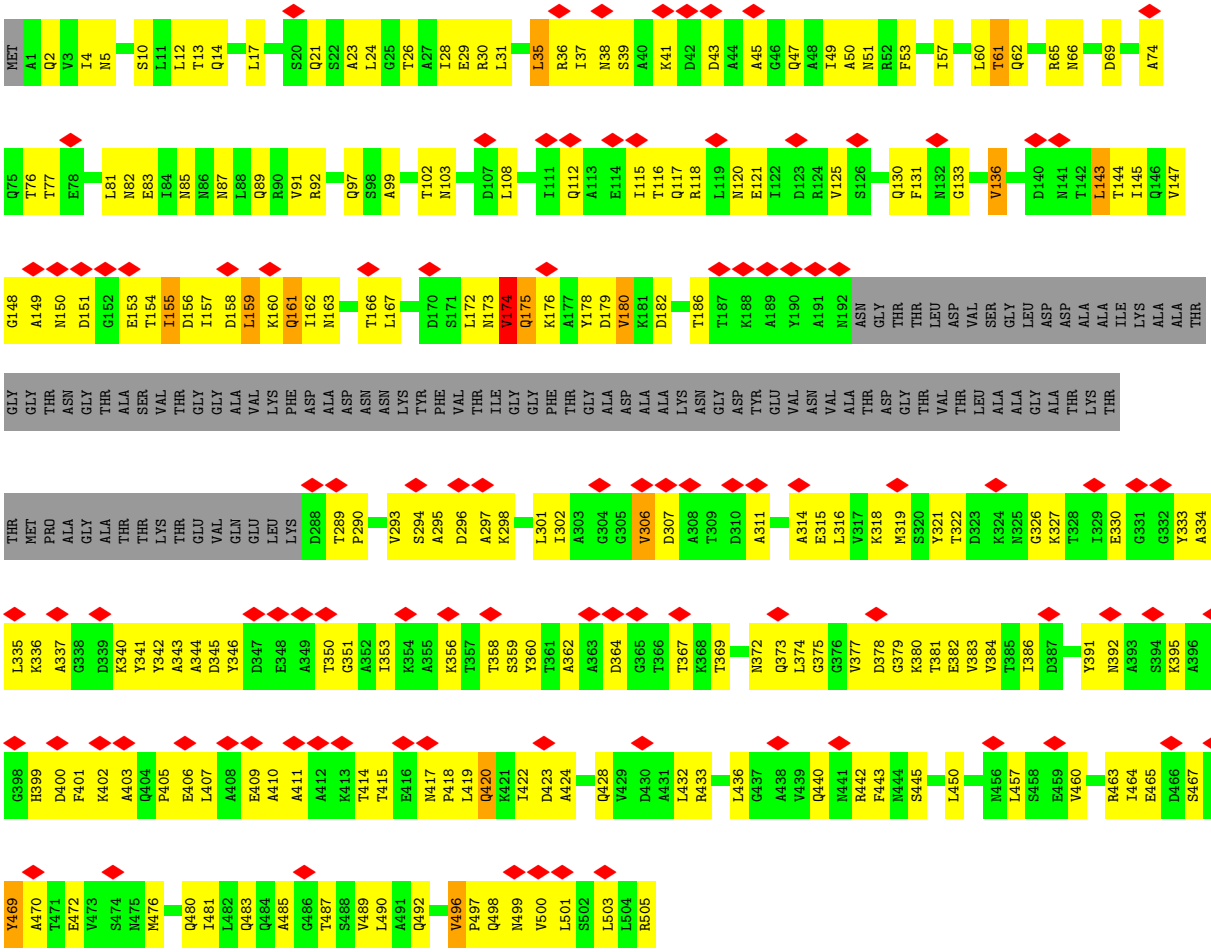
• Molecule 1: Flagellin





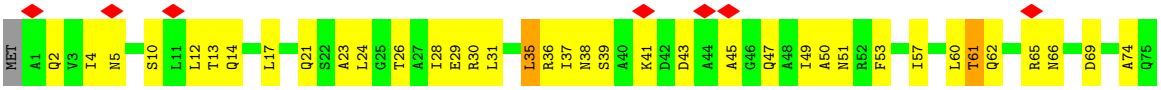
• Molecule 1: Flagellin

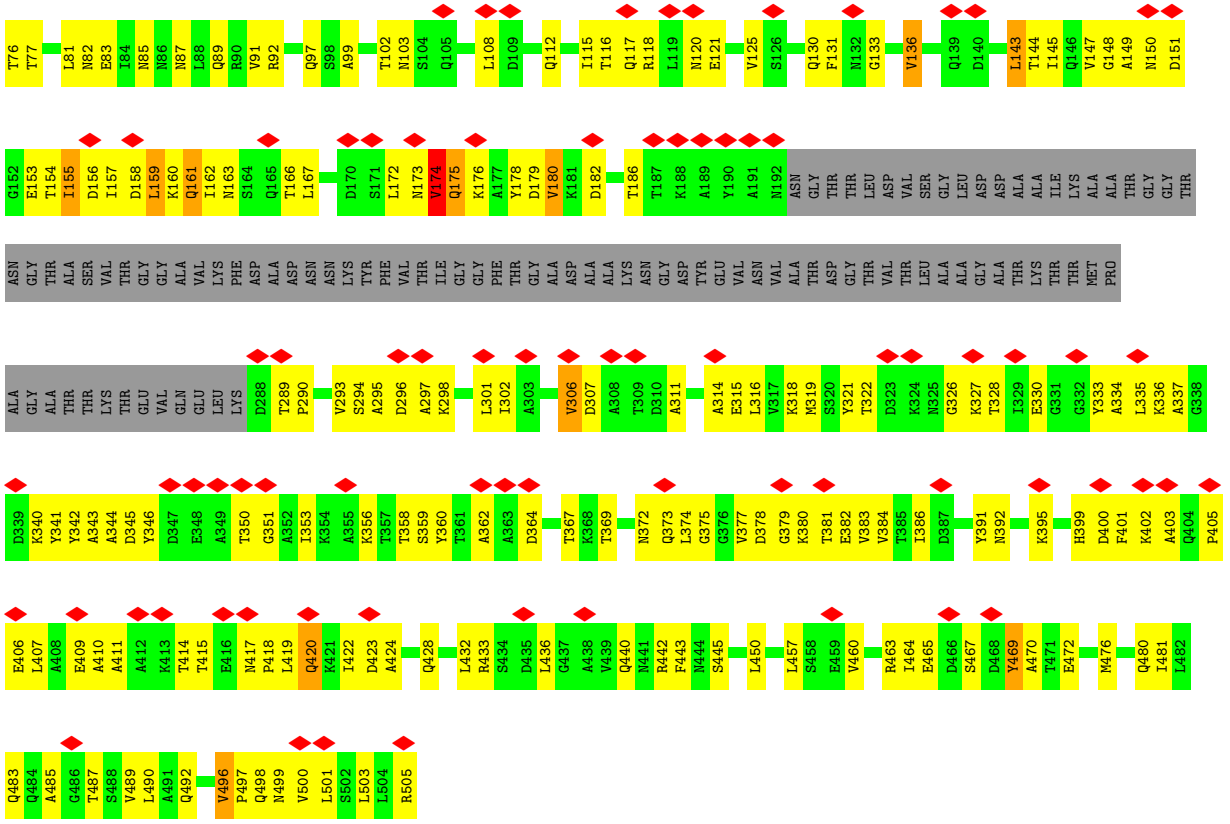
Chain O:



• Molecule 1: Flagellin

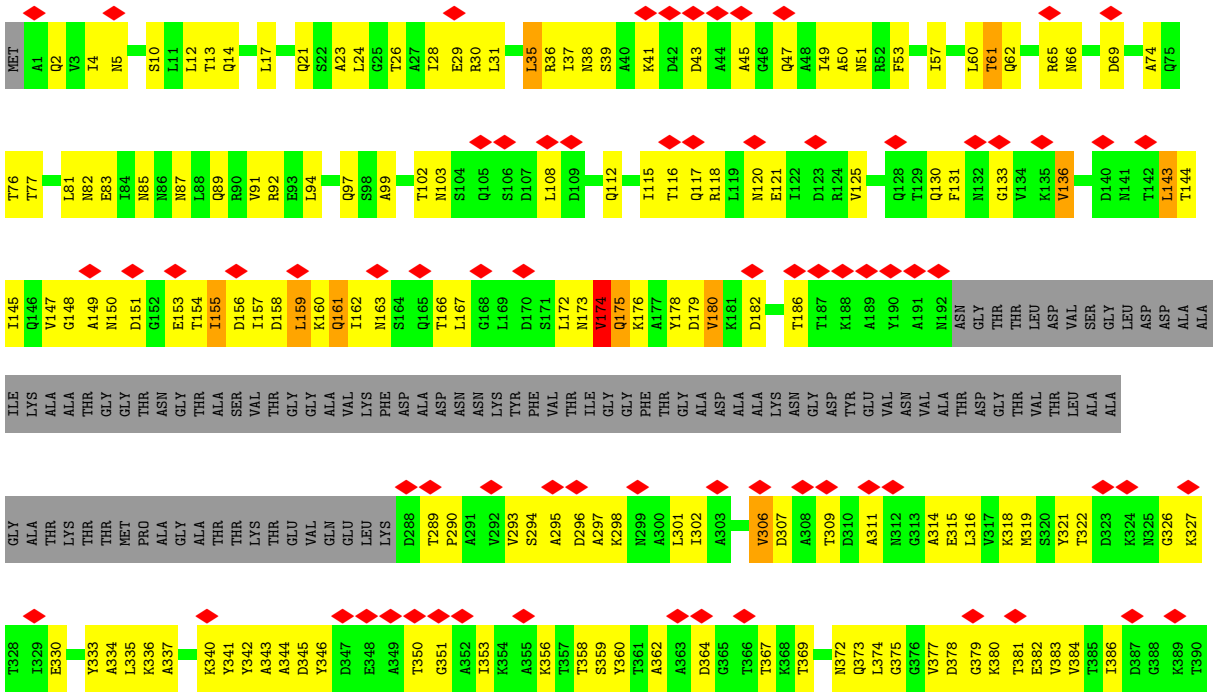
Chain P:

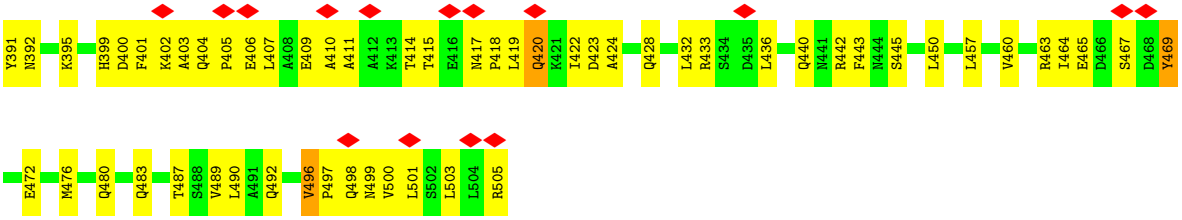




• Molecule 1: Flagellin

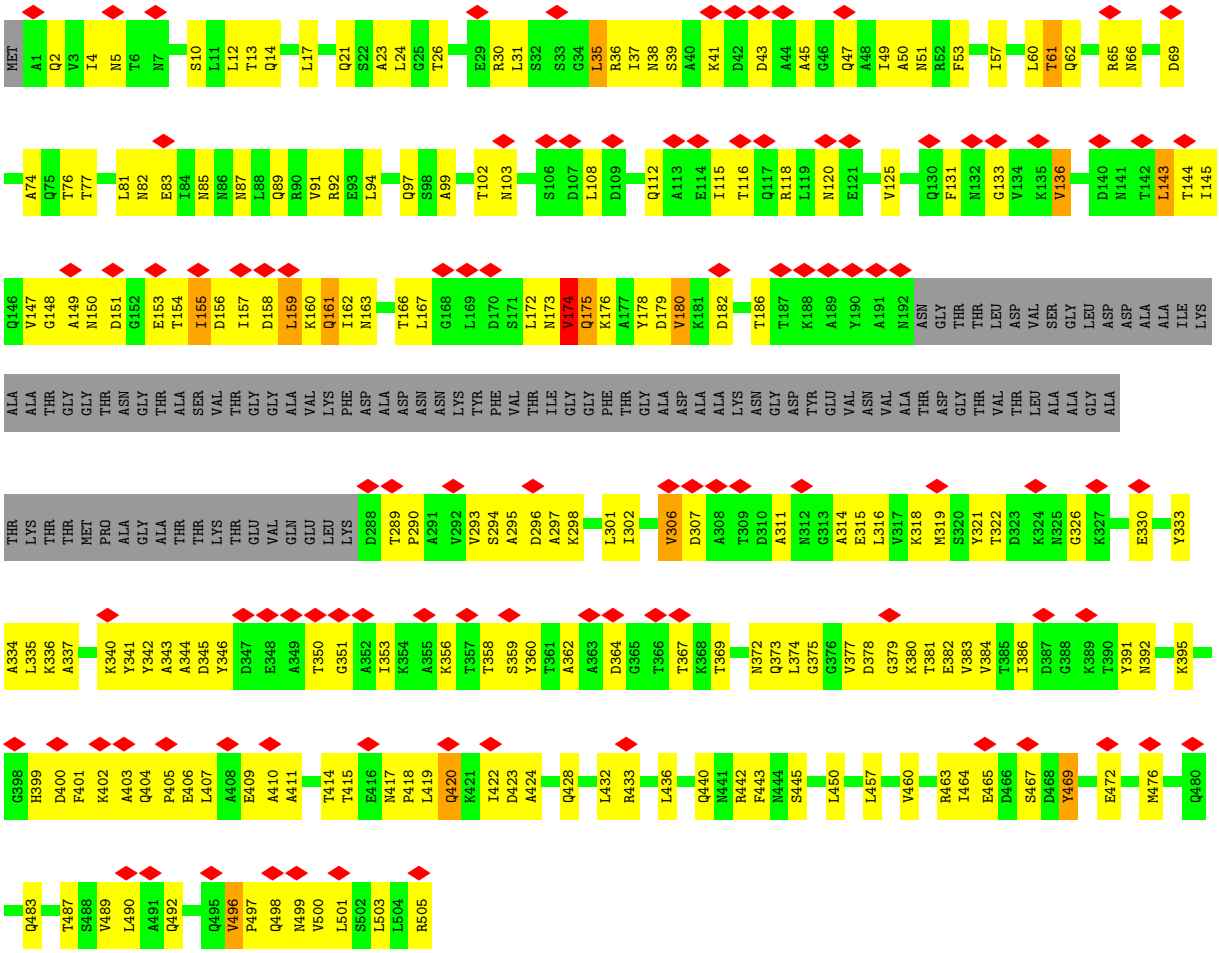
Chain Q:





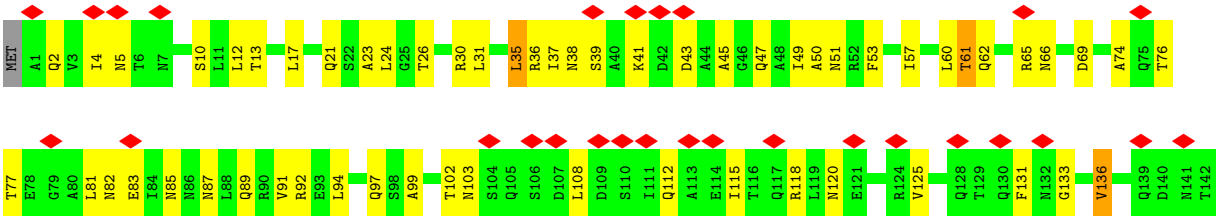
• Molecule 1: Flagellin

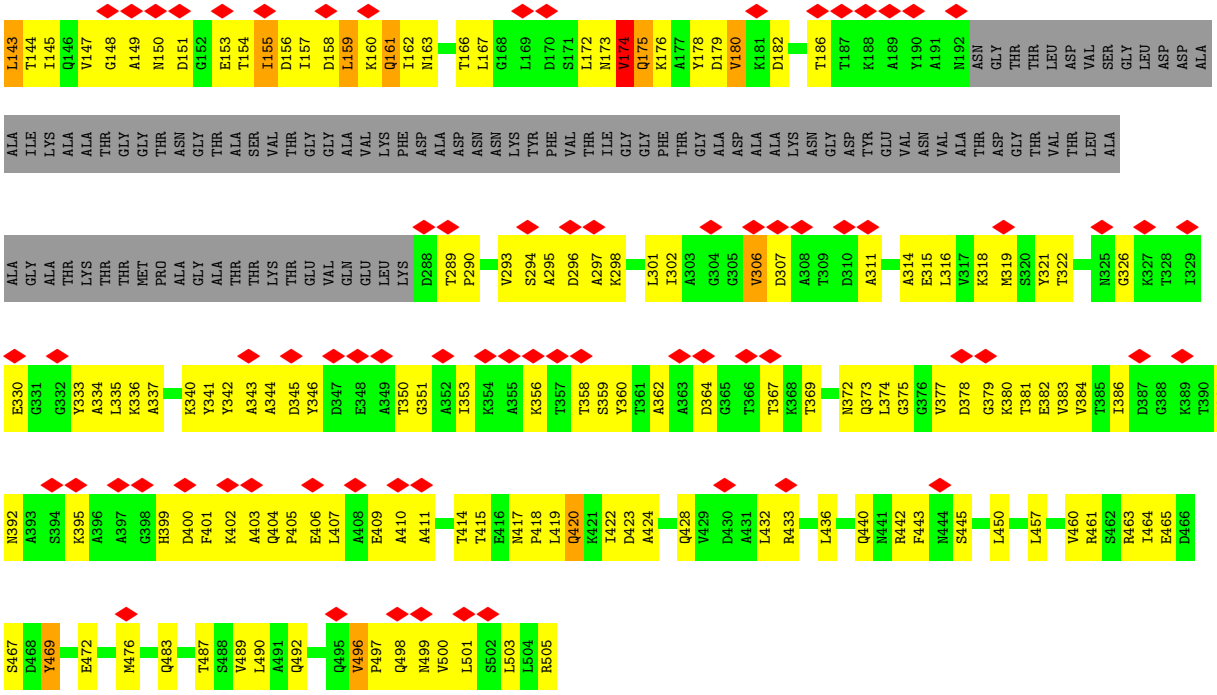
Chain R:



• Molecule 1: Flagellin

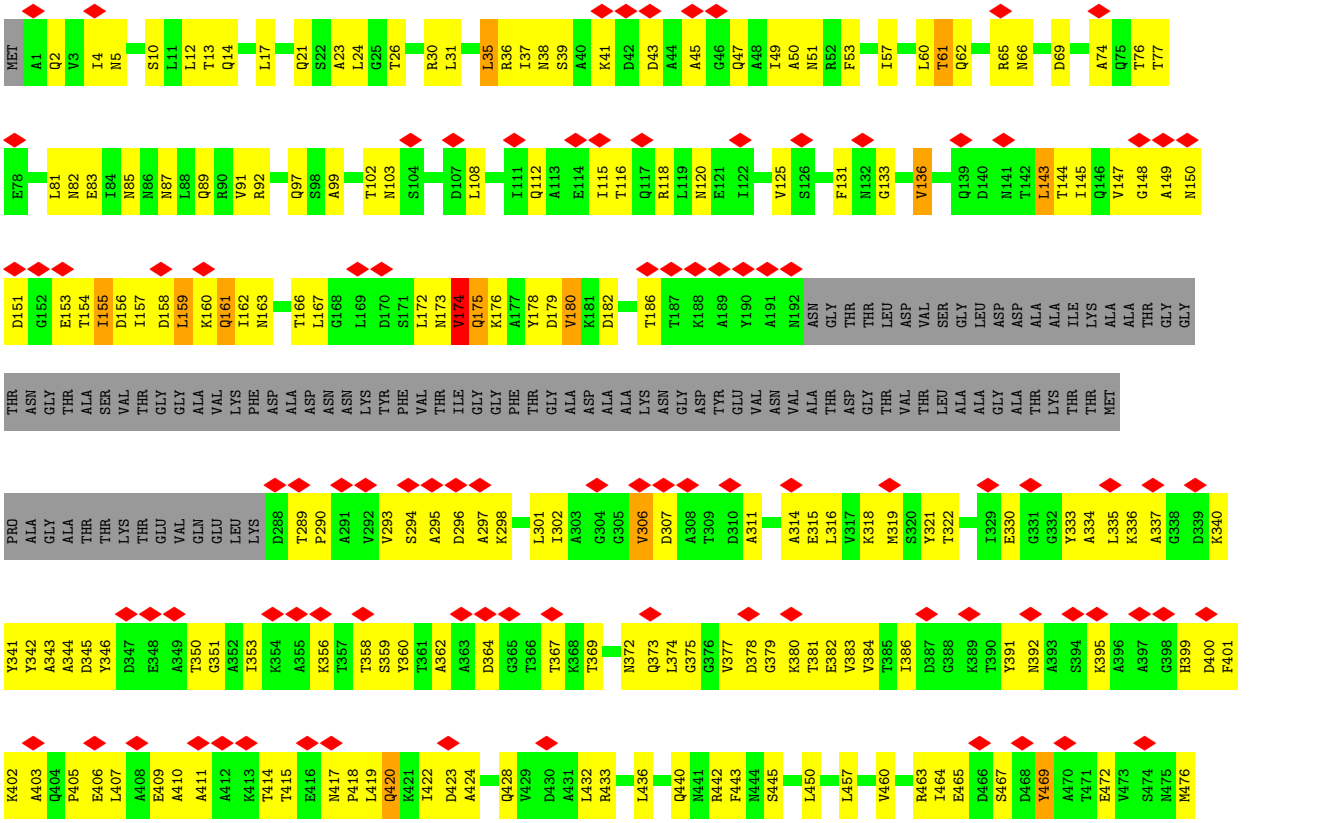
Chain S:

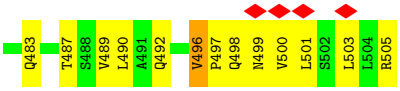




• Molecule 1: Flagellin

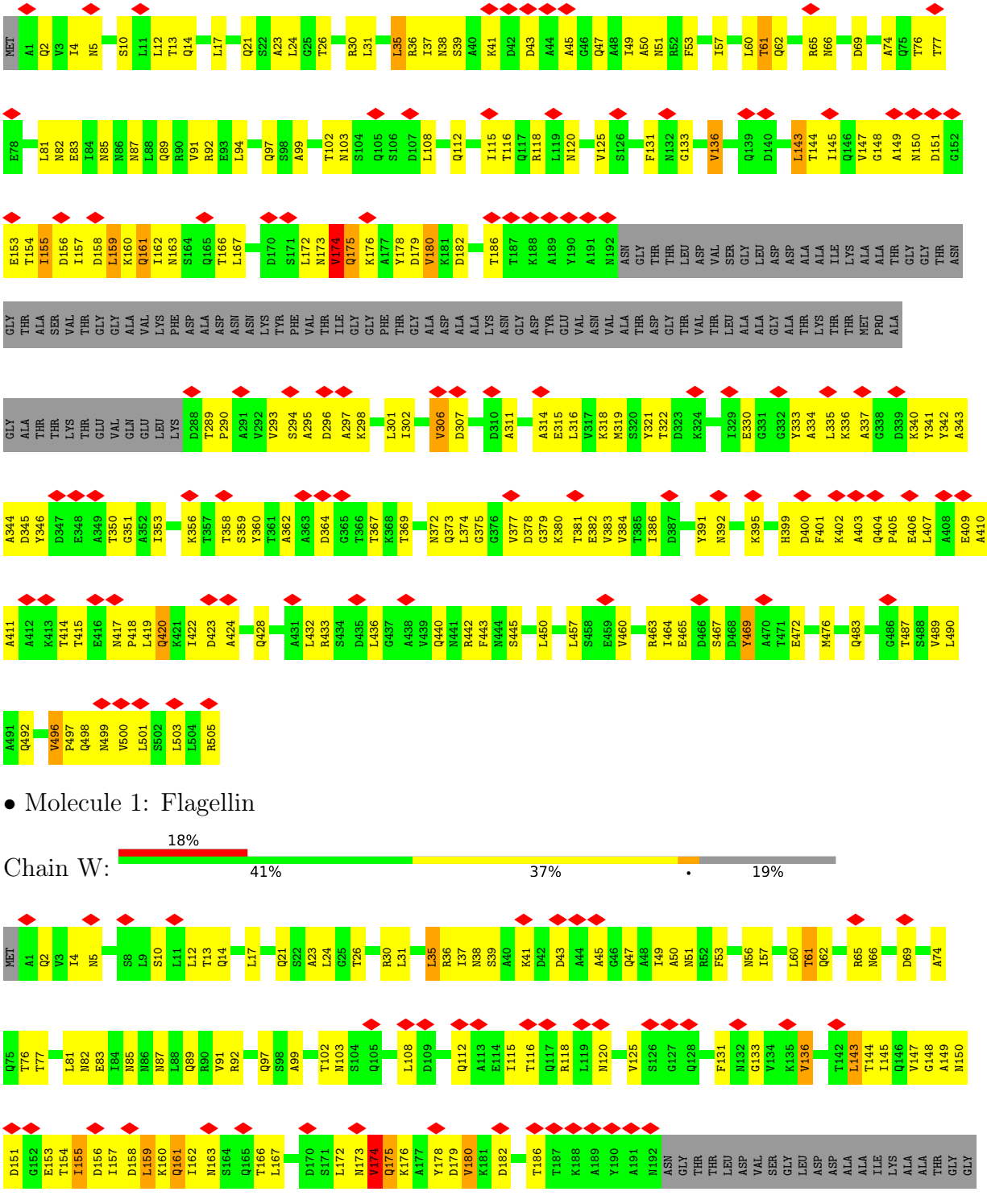
Chain T:





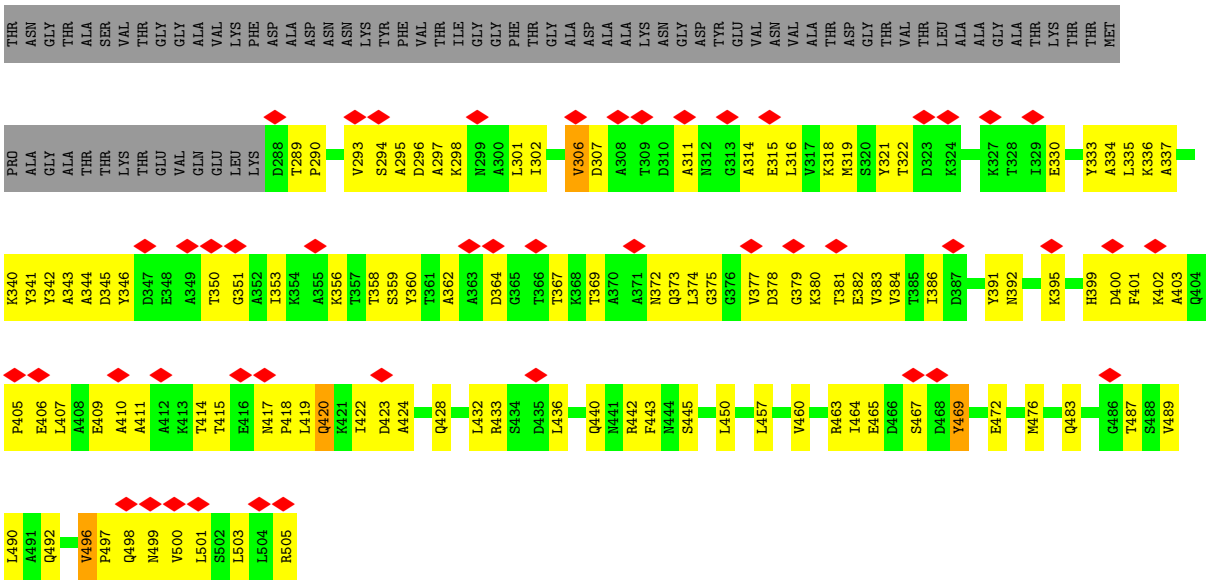
• Molecule 1: Flagellin

Chain U:



• Molecule 1: Flagellin

Chain W:


THR ASN GLY THR ALA SER VAL THR GLY GLY ALA VAL LYS PHE ASP ALA ASP ASN ASN LYS TYR PHE VAL THR ILE GLY GLY PHE THR GLY ALA ASP ALA ALA LYS ASN GLY ASP TYR GLU VAL ASN VAL ALA THR ASP GLY THR VAL THR LEU ALA ALA GLY ALA THR LYS THR THR MET
PRO ALA GLY ALA THR THR LYS THR GLU VAL GLN GLU LEU LYS D288 T289 P290 V293 S294 A295 D296 A297 K298 N299 A300 L301 I302 V306 D307 A308 T309 D310 A311 N312 G313 A314 E315 L316 V317 K318 M319 S320 Y321 T322 D323 K324 K327 T328 I329 E330 Y333 A334 L335 K336 A337
K340 Y341 Y342 A343 A344 D345 Y346 D347 E348 A349 T350 G351 A352 I353 K354 A355 K356 T357 T358 S359 Y360 T361 A362 A363 D364 G365 T366 T367 K368 T369 A370 A371 N372 Q373 L374 G375 G376 V377 D378 G379 K380 T381 E382 V383 V384 T385 I386 D387 Y391 N392 K395 H399 D400 F401 K402 A403 Q404
P405 E406 L407 A408 E409 A410 A411 A412 K413 T414 T415 E416 N417 P418 L419 Q420 K421 I422 D423 A424 Q428 L432 R433 S434 D435 L436 Q440 N441 R442 F443 N444 S445 L450 L457 V460 R463 I464 E465 D466 S467 D468 Y469 E472 M476 Q483 G486 T487 S488 V489
L490 A491 Q492 V496 P497 Q498 N499 V500 L501 S502 L503 L504 R505

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=65.813°, rise=4.86758 Å, axial sym=C1	Depositor
Number of segments used	114110	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	10.3	Depositor
Minimum defocus (nm)	210	Depositor
Maximum defocus (nm)	1600	Depositor
Magnification	72273	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.167	Depositor
Minimum map value	-0.107	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.009	Depositor
Recommended contour level	0.032	Depositor
Map size (Å)	423.99997, 423.99997, 423.99997	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.06, 1.06, 1.06	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	A	0.55	0/3044	1.00	16/4128 (0.4%)
1	B	0.55	0/3044	1.00	16/4128 (0.4%)
1	C	0.55	0/3044	1.00	16/4128 (0.4%)
1	D	0.55	0/3044	1.00	16/4128 (0.4%)
1	E	0.55	0/3044	1.00	16/4128 (0.4%)
1	F	0.55	0/3044	1.01	16/4128 (0.4%)
1	G	0.55	0/3044	1.01	16/4128 (0.4%)
1	H	0.55	0/3044	1.00	16/4128 (0.4%)
1	I	0.55	0/3044	1.00	16/4128 (0.4%)
1	J	0.55	0/3044	1.01	16/4128 (0.4%)
1	K	0.55	0/3044	1.00	16/4128 (0.4%)
1	L	0.55	0/3044	1.00	16/4128 (0.4%)
1	M	0.55	0/3044	1.00	16/4128 (0.4%)
1	N	0.55	0/3044	1.00	16/4128 (0.4%)
1	O	0.55	0/3044	1.00	16/4128 (0.4%)
1	P	0.55	0/3044	1.01	16/4128 (0.4%)
1	Q	0.55	0/3044	1.00	16/4128 (0.4%)
1	R	0.55	0/3044	1.00	16/4128 (0.4%)
1	S	0.55	0/3044	1.01	16/4128 (0.4%)
1	T	0.55	0/3044	1.01	16/4128 (0.4%)
1	U	0.55	0/3044	1.00	16/4128 (0.4%)
1	W	0.55	0/3044	1.00	16/4128 (0.4%)
All	All	0.55	0/66968	1.00	352/90816 (0.4%)

There are no bond length outliers.

All (352) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	S	149	ALA	N-CA-C	-8.98	102.09	113.23
1	G	149	ALA	N-CA-C	-8.95	102.13	113.23
1	D	149	ALA	N-CA-C	-8.93	102.16	113.23
1	K	149	ALA	N-CA-C	-8.93	102.16	113.23
1	Q	149	ALA	N-CA-C	-8.93	102.16	113.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	149	ALA	N-CA-C	-8.92	102.17	113.23
1	H	149	ALA	N-CA-C	-8.92	102.17	113.23
1	T	149	ALA	N-CA-C	-8.91	102.18	113.23
1	R	149	ALA	N-CA-C	-8.91	102.18	113.23
1	J	149	ALA	N-CA-C	-8.91	102.19	113.23
1	O	149	ALA	N-CA-C	-8.90	102.19	113.23
1	U	149	ALA	N-CA-C	-8.90	102.19	113.23
1	M	149	ALA	N-CA-C	-8.90	102.19	113.23
1	F	149	ALA	N-CA-C	-8.90	102.19	113.23
1	I	149	ALA	N-CA-C	-8.90	102.20	113.23
1	L	149	ALA	N-CA-C	-8.90	102.20	113.23
1	N	149	ALA	N-CA-C	-8.90	102.20	113.23
1	W	149	ALA	N-CA-C	-8.90	102.20	113.23
1	E	149	ALA	N-CA-C	-8.89	102.20	113.23
1	P	149	ALA	N-CA-C	-8.89	102.20	113.23
1	A	149	ALA	N-CA-C	-8.89	102.21	113.23
1	B	149	ALA	N-CA-C	-8.85	102.26	113.23
1	Q	295	ALA	N-CA-C	-7.54	103.03	111.71
1	P	295	ALA	N-CA-C	-7.54	103.04	111.71
1	W	295	ALA	N-CA-C	-7.54	103.04	111.71
1	L	295	ALA	N-CA-C	-7.53	103.05	111.71
1	S	295	ALA	N-CA-C	-7.52	103.06	111.71
1	T	295	ALA	N-CA-C	-7.51	103.07	111.71
1	M	295	ALA	N-CA-C	-7.51	103.07	111.71
1	E	295	ALA	N-CA-C	-7.51	103.08	111.71
1	J	295	ALA	N-CA-C	-7.51	103.08	111.71
1	O	295	ALA	N-CA-C	-7.50	103.08	111.71
1	K	295	ALA	N-CA-C	-7.50	103.08	111.71
1	G	295	ALA	N-CA-C	-7.50	103.08	111.71
1	U	295	ALA	N-CA-C	-7.50	103.09	111.71
1	A	295	ALA	N-CA-C	-7.49	103.09	111.71
1	R	295	ALA	N-CA-C	-7.49	103.10	111.71
1	F	295	ALA	N-CA-C	-7.49	103.10	111.71
1	C	295	ALA	N-CA-C	-7.48	103.11	111.71
1	H	295	ALA	N-CA-C	-7.48	103.11	111.71
1	I	295	ALA	N-CA-C	-7.46	103.13	111.71
1	N	295	ALA	N-CA-C	-7.46	103.13	111.71
1	B	295	ALA	N-CA-C	-7.46	103.13	111.71
1	D	295	ALA	N-CA-C	-7.45	103.14	111.71
1	C	136	VAL	N-CA-C	7.22	118.01	110.72
1	F	136	VAL	N-CA-C	7.21	118.00	110.72
1	B	136	VAL	N-CA-C	7.19	117.98	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	W	136	VAL	N-CA-C	7.19	117.98	110.72
1	S	136	VAL	N-CA-C	7.18	117.97	110.72
1	A	136	VAL	N-CA-C	7.18	117.97	110.72
1	N	136	VAL	N-CA-C	7.17	117.96	110.72
1	O	136	VAL	N-CA-C	7.16	117.95	110.72
1	K	136	VAL	N-CA-C	7.16	117.95	110.72
1	M	136	VAL	N-CA-C	7.16	117.95	110.72
1	I	136	VAL	N-CA-C	7.16	117.95	110.72
1	E	136	VAL	N-CA-C	7.15	117.94	110.72
1	U	136	VAL	N-CA-C	7.15	117.94	110.72
1	G	136	VAL	N-CA-C	7.14	117.93	110.72
1	T	136	VAL	N-CA-C	7.13	117.92	110.72
1	H	136	VAL	N-CA-C	7.12	117.92	110.72
1	J	136	VAL	N-CA-C	7.12	117.92	110.72
1	D	136	VAL	N-CA-C	7.10	117.89	110.72
1	I	496	VAL	CA-C-N	7.10	128.72	119.84
1	I	496	VAL	C-N-CA	7.10	128.72	119.84
1	P	136	VAL	N-CA-C	7.10	117.89	110.72
1	Q	136	VAL	N-CA-C	7.10	117.89	110.72
1	S	496	VAL	CA-C-N	7.09	128.70	119.84
1	S	496	VAL	C-N-CA	7.09	128.70	119.84
1	G	496	VAL	CA-C-N	7.08	128.69	119.84
1	G	496	VAL	C-N-CA	7.08	128.69	119.84
1	L	136	VAL	N-CA-C	7.08	117.87	110.72
1	R	136	VAL	N-CA-C	7.07	117.86	110.72
1	B	496	VAL	CA-C-N	7.07	128.68	119.84
1	B	496	VAL	C-N-CA	7.07	128.68	119.84
1	H	496	VAL	CA-C-N	7.07	128.67	119.84
1	H	496	VAL	C-N-CA	7.07	128.67	119.84
1	T	496	VAL	CA-C-N	7.06	128.67	119.84
1	T	496	VAL	C-N-CA	7.06	128.67	119.84
1	L	496	VAL	CA-C-N	7.06	128.66	119.84
1	L	496	VAL	C-N-CA	7.06	128.66	119.84
1	M	496	VAL	CA-C-N	7.06	128.66	119.84
1	M	496	VAL	C-N-CA	7.06	128.66	119.84
1	U	496	VAL	CA-C-N	7.05	128.65	119.84
1	U	496	VAL	C-N-CA	7.05	128.65	119.84
1	D	496	VAL	CA-C-N	7.04	128.64	119.84
1	D	496	VAL	C-N-CA	7.04	128.64	119.84
1	A	496	VAL	CA-C-N	7.03	128.63	119.84
1	A	496	VAL	C-N-CA	7.03	128.63	119.84
1	P	496	VAL	CA-C-N	7.03	128.63	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	496	VAL	C-N-CA	7.03	128.63	119.84
1	F	496	VAL	CA-C-N	7.03	128.63	119.84
1	F	496	VAL	C-N-CA	7.03	128.63	119.84
1	Q	496	VAL	CA-C-N	7.03	128.63	119.84
1	Q	496	VAL	C-N-CA	7.03	128.63	119.84
1	R	496	VAL	CA-C-N	7.02	128.62	119.84
1	R	496	VAL	C-N-CA	7.02	128.62	119.84
1	O	496	VAL	CA-C-N	7.02	128.62	119.84
1	O	496	VAL	C-N-CA	7.02	128.62	119.84
1	C	496	VAL	CA-C-N	7.01	128.61	119.84
1	C	496	VAL	C-N-CA	7.01	128.61	119.84
1	N	496	VAL	CA-C-N	7.01	128.60	119.84
1	N	496	VAL	C-N-CA	7.01	128.60	119.84
1	J	496	VAL	CA-C-N	7.01	128.60	119.84
1	J	496	VAL	C-N-CA	7.01	128.60	119.84
1	E	496	VAL	CA-C-N	7.00	128.59	119.84
1	E	496	VAL	C-N-CA	7.00	128.59	119.84
1	W	496	VAL	CA-C-N	6.99	128.58	119.84
1	W	496	VAL	C-N-CA	6.99	128.58	119.84
1	K	496	VAL	CA-C-N	6.96	128.53	119.84
1	K	496	VAL	C-N-CA	6.96	128.53	119.84
1	N	102	THR	N-CA-C	6.89	118.80	111.28
1	K	102	THR	N-CA-C	6.88	118.78	111.28
1	T	102	THR	N-CA-C	6.87	118.77	111.28
1	J	102	THR	N-CA-C	6.86	118.76	111.28
1	C	102	THR	N-CA-C	6.85	118.75	111.28
1	A	102	THR	N-CA-C	6.84	118.73	111.28
1	U	102	THR	N-CA-C	6.83	118.73	111.28
1	S	102	THR	N-CA-C	6.82	118.71	111.28
1	D	102	THR	N-CA-C	6.81	118.70	111.28
1	G	102	THR	N-CA-C	6.81	118.70	111.28
1	B	102	THR	N-CA-C	6.80	118.69	111.28
1	F	102	THR	N-CA-C	6.80	118.69	111.28
1	R	102	THR	N-CA-C	6.80	118.69	111.28
1	I	102	THR	N-CA-C	6.80	118.69	111.28
1	Q	102	THR	N-CA-C	6.79	118.69	111.28
1	W	102	THR	N-CA-C	6.79	118.68	111.28
1	M	102	THR	N-CA-C	6.79	118.68	111.28
1	L	102	THR	N-CA-C	6.77	118.66	111.28
1	P	102	THR	N-CA-C	6.77	118.66	111.28
1	O	102	THR	N-CA-C	6.76	118.65	111.28
1	E	102	THR	N-CA-C	6.76	118.65	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	102	THR	N-CA-C	6.76	118.65	111.28
1	T	99	ALA	N-CA-C	6.19	118.03	111.28
1	J	99	ALA	N-CA-C	6.18	118.01	111.28
1	R	99	ALA	N-CA-C	6.16	117.99	111.28
1	P	99	ALA	N-CA-C	6.15	117.98	111.28
1	L	161	GLN	N-CA-C	-6.12	100.97	110.10
1	P	161	GLN	N-CA-C	-6.12	100.98	110.10
1	D	99	ALA	N-CA-C	6.12	117.95	111.28
1	Q	161	GLN	N-CA-C	-6.11	101.00	110.10
1	C	99	ALA	N-CA-C	6.11	117.94	111.28
1	T	161	GLN	N-CA-C	-6.11	101.00	110.10
1	A	99	ALA	N-CA-C	6.10	117.93	111.28
1	G	99	ALA	N-CA-C	6.10	117.93	111.28
1	W	161	GLN	N-CA-C	-6.10	101.01	110.10
1	J	161	GLN	N-CA-C	-6.10	101.01	110.10
1	H	99	ALA	N-CA-C	6.10	117.93	111.28
1	L	99	ALA	N-CA-C	6.10	117.93	111.28
1	O	99	ALA	N-CA-C	6.10	117.93	111.28
1	D	161	GLN	N-CA-C	-6.10	101.02	110.10
1	K	99	ALA	N-CA-C	6.10	117.93	111.28
1	A	161	GLN	N-CA-C	-6.09	101.02	110.10
1	O	161	GLN	N-CA-C	-6.09	101.02	110.10
1	K	161	GLN	N-CA-C	-6.09	101.02	110.10
1	S	161	GLN	N-CA-C	-6.09	101.03	110.10
1	E	99	ALA	N-CA-C	6.09	117.92	111.28
1	E	161	GLN	N-CA-C	-6.08	101.04	110.10
1	I	161	GLN	N-CA-C	-6.08	101.04	110.10
1	M	161	GLN	N-CA-C	-6.08	101.04	110.10
1	F	99	ALA	N-CA-C	6.08	117.91	111.28
1	N	99	ALA	N-CA-C	6.07	117.90	111.28
1	B	161	GLN	N-CA-C	-6.07	101.06	110.10
1	F	161	GLN	N-CA-C	-6.07	101.06	110.10
1	G	161	GLN	N-CA-C	-6.07	101.06	110.10
1	U	161	GLN	N-CA-C	-6.07	101.06	110.10
1	R	161	GLN	N-CA-C	-6.06	101.07	110.10
1	Q	99	ALA	N-CA-C	6.06	117.89	111.28
1	N	161	GLN	N-CA-C	-6.06	101.07	110.10
1	C	161	GLN	N-CA-C	-6.06	101.08	110.10
1	U	99	ALA	N-CA-C	6.05	117.88	111.28
1	B	99	ALA	N-CA-C	6.05	117.88	111.28
1	M	99	ALA	N-CA-C	6.05	117.87	111.28
1	S	99	ALA	N-CA-C	6.05	117.87	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	99	ALA	N-CA-C	6.04	117.87	111.28
1	W	99	ALA	N-CA-C	6.04	117.87	111.28
1	H	161	GLN	N-CA-C	-6.04	101.10	110.10
1	B	155	ILE	N-CA-C	-5.89	99.93	108.36
1	R	155	ILE	N-CA-C	-5.89	99.94	108.36
1	N	155	ILE	N-CA-C	-5.88	99.96	108.36
1	K	155	ILE	N-CA-C	-5.87	99.96	108.36
1	S	155	ILE	N-CA-C	-5.87	99.96	108.36
1	P	155	ILE	N-CA-C	-5.87	99.96	108.36
1	F	155	ILE	N-CA-C	-5.87	99.97	108.36
1	M	155	ILE	N-CA-C	-5.87	99.97	108.36
1	T	155	ILE	N-CA-C	-5.87	99.97	108.36
1	E	155	ILE	N-CA-C	-5.86	99.97	108.36
1	A	155	ILE	N-CA-C	-5.86	99.98	108.36
1	I	155	ILE	N-CA-C	-5.86	99.98	108.36
1	W	155	ILE	N-CA-C	-5.86	99.98	108.36
1	C	155	ILE	N-CA-C	-5.86	99.99	108.36
1	O	155	ILE	N-CA-C	-5.86	99.99	108.36
1	G	155	ILE	N-CA-C	-5.85	100.00	108.36
1	P	469	TYR	N-CA-C	5.85	117.73	111.36
1	H	155	ILE	N-CA-C	-5.85	100.00	108.36
1	K	469	TYR	N-CA-C	5.84	117.73	111.36
1	Q	155	ILE	N-CA-C	-5.84	100.00	108.36
1	U	155	ILE	N-CA-C	-5.84	100.00	108.36
1	J	155	ILE	N-CA-C	-5.84	100.01	108.36
1	L	155	ILE	N-CA-C	-5.84	100.01	108.36
1	M	469	TYR	N-CA-C	5.84	117.72	111.36
1	D	155	ILE	N-CA-C	-5.83	100.02	108.36
1	T	469	TYR	N-CA-C	5.82	117.71	111.36
1	W	469	TYR	N-CA-C	5.82	117.71	111.36
1	F	469	TYR	N-CA-C	5.81	117.70	111.36
1	O	469	TYR	N-CA-C	5.80	117.68	111.36
1	L	469	TYR	N-CA-C	5.80	117.68	111.36
1	I	469	TYR	N-CA-C	5.79	117.68	111.36
1	N	469	TYR	N-CA-C	5.79	117.68	111.36
1	J	469	TYR	N-CA-C	5.79	117.67	111.36
1	C	469	TYR	N-CA-C	5.79	117.67	111.36
1	E	469	TYR	N-CA-C	5.79	117.67	111.36
1	Q	469	TYR	N-CA-C	5.79	117.67	111.36
1	H	469	TYR	N-CA-C	5.78	117.66	111.36
1	D	469	TYR	N-CA-C	5.78	117.66	111.36
1	G	469	TYR	N-CA-C	5.78	117.66	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	469	TYR	N-CA-C	5.77	117.65	111.36
1	B	469	TYR	N-CA-C	5.76	117.64	111.36
1	R	469	TYR	N-CA-C	5.76	117.64	111.36
1	U	469	TYR	N-CA-C	5.76	117.63	111.36
1	S	469	TYR	N-CA-C	5.74	117.61	111.36
1	J	174	VAL	N-CA-C	-5.72	105.82	111.77
1	M	174	VAL	N-CA-C	-5.71	105.83	111.77
1	H	174	VAL	N-CA-C	-5.71	105.83	111.77
1	D	174	VAL	N-CA-C	-5.70	105.84	111.77
1	Q	174	VAL	N-CA-C	-5.70	105.84	111.77
1	Q	175	GLN	N-CA-C	5.70	120.10	113.20
1	I	174	VAL	N-CA-C	-5.68	105.86	111.77
1	P	174	VAL	N-CA-C	-5.68	105.86	111.77
1	R	174	VAL	N-CA-C	-5.68	105.86	111.77
1	I	175	GLN	N-CA-C	5.68	120.08	113.20
1	L	174	VAL	N-CA-C	-5.68	105.86	111.77
1	E	174	VAL	N-CA-C	-5.68	105.86	111.77
1	T	174	VAL	N-CA-C	-5.68	105.86	111.77
1	K	174	VAL	N-CA-C	-5.67	105.87	111.77
1	G	174	VAL	N-CA-C	-5.67	105.87	111.77
1	A	174	VAL	N-CA-C	-5.67	105.87	111.77
1	S	174	VAL	N-CA-C	-5.67	105.88	111.77
1	B	174	VAL	N-CA-C	-5.67	105.88	111.77
1	D	175	GLN	N-CA-C	5.67	120.05	113.20
1	C	174	VAL	N-CA-C	-5.66	105.88	111.77
1	N	174	VAL	N-CA-C	-5.66	105.89	111.77
1	U	175	GLN	N-CA-C	5.66	120.04	113.20
1	M	175	GLN	N-CA-C	5.65	120.03	113.20
1	E	175	GLN	N-CA-C	5.64	120.03	113.20
1	J	175	GLN	N-CA-C	5.64	120.03	113.20
1	F	175	GLN	N-CA-C	5.64	120.03	113.20
1	U	174	VAL	N-CA-C	-5.64	105.90	111.77
1	K	175	GLN	N-CA-C	5.64	120.02	113.20
1	F	174	VAL	N-CA-C	-5.63	105.91	111.77
1	L	175	GLN	N-CA-C	5.63	120.02	113.20
1	H	175	GLN	N-CA-C	5.63	120.01	113.20
1	N	175	GLN	N-CA-C	5.62	120.01	113.20
1	B	175	GLN	N-CA-C	5.62	120.00	113.20
1	P	175	GLN	N-CA-C	5.62	120.00	113.20
1	T	175	GLN	N-CA-C	5.62	120.00	113.20
1	A	175	GLN	N-CA-C	5.62	120.00	113.20
1	H	143	LEU	N-CA-C	-5.62	100.03	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	S	175	GLN	N-CA-C	5.61	119.99	113.20
1	Q	143	LEU	N-CA-C	-5.61	100.04	109.07
1	C	175	GLN	N-CA-C	5.61	119.98	113.20
1	W	175	GLN	N-CA-C	5.61	119.98	113.20
1	G	143	LEU	N-CA-C	-5.60	100.05	109.07
1	I	143	LEU	N-CA-C	-5.60	100.05	109.07
1	G	175	GLN	N-CA-C	5.60	119.97	113.20
1	O	174	VAL	N-CA-C	-5.60	105.95	111.77
1	W	143	LEU	N-CA-C	-5.60	100.06	109.07
1	R	175	GLN	N-CA-C	5.60	119.97	113.20
1	F	143	LEU	N-CA-C	-5.60	100.06	109.07
1	R	143	LEU	N-CA-C	-5.59	100.06	109.07
1	S	143	LEU	N-CA-C	-5.59	100.06	109.07
1	U	143	LEU	N-CA-C	-5.59	100.06	109.07
1	K	143	LEU	N-CA-C	-5.59	100.07	109.07
1	N	143	LEU	N-CA-C	-5.59	100.07	109.07
1	W	174	VAL	N-CA-C	-5.59	105.96	111.77
1	D	143	LEU	N-CA-C	-5.59	100.08	109.07
1	O	143	LEU	N-CA-C	-5.58	100.08	109.07
1	B	143	LEU	N-CA-C	-5.58	100.08	109.07
1	O	175	GLN	N-CA-C	5.58	119.95	113.20
1	T	143	LEU	N-CA-C	-5.58	100.09	109.07
1	J	143	LEU	N-CA-C	-5.58	100.09	109.07
1	P	143	LEU	N-CA-C	-5.58	100.09	109.07
1	L	143	LEU	N-CA-C	-5.58	100.09	109.07
1	E	143	LEU	N-CA-C	-5.57	100.09	109.07
1	A	143	LEU	N-CA-C	-5.55	100.13	109.07
1	M	143	LEU	N-CA-C	-5.55	100.13	109.07
1	C	143	LEU	N-CA-C	-5.52	100.18	109.07
1	C	35	LEU	N-CA-C	5.42	117.74	108.90
1	W	35	LEU	N-CA-C	5.40	117.70	108.90
1	L	35	LEU	N-CA-C	5.39	117.69	108.90
1	T	35	LEU	N-CA-C	5.39	117.69	108.90
1	F	35	LEU	N-CA-C	5.39	117.68	108.90
1	N	35	LEU	N-CA-C	5.39	117.68	108.90
1	I	35	LEU	N-CA-C	5.38	117.67	108.90
1	S	35	LEU	N-CA-C	5.38	117.68	108.90
1	H	35	LEU	N-CA-C	5.38	117.67	108.90
1	A	35	LEU	N-CA-C	5.38	117.66	108.90
1	K	35	LEU	N-CA-C	5.37	117.66	108.90
1	B	35	LEU	N-CA-C	5.37	117.65	108.90
1	M	35	LEU	N-CA-C	5.37	117.65	108.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	U	35	LEU	N-CA-C	5.37	117.65	108.90
1	G	35	LEU	N-CA-C	5.37	117.65	108.90
1	O	35	LEU	N-CA-C	5.37	117.65	108.90
1	R	35	LEU	N-CA-C	5.37	117.65	108.90
1	J	35	LEU	N-CA-C	5.36	117.64	108.90
1	Q	35	LEU	N-CA-C	5.36	117.64	108.90
1	P	35	LEU	N-CA-C	5.36	117.63	108.90
1	E	35	LEU	N-CA-C	5.35	117.62	108.90
1	D	35	LEU	N-CA-C	5.34	117.60	108.90
1	B	367	THR	N-CA-C	5.33	118.79	111.54
1	H	367	THR	N-CA-C	5.31	118.77	111.54
1	W	367	THR	N-CA-C	5.31	118.76	111.54
1	S	367	THR	N-CA-C	5.30	118.74	111.54
1	U	367	THR	N-CA-C	5.29	118.74	111.54
1	C	367	THR	N-CA-C	5.29	118.73	111.54
1	T	367	THR	N-CA-C	5.29	118.73	111.54
1	O	159	LEU	N-CA-C	5.29	117.22	109.24
1	A	367	THR	N-CA-C	5.28	118.72	111.54
1	S	159	LEU	N-CA-C	5.28	117.21	109.24
1	Q	367	THR	N-CA-C	5.27	118.71	111.54
1	D	367	THR	N-CA-C	5.27	118.71	111.54
1	L	367	THR	N-CA-C	5.27	118.71	111.54
1	B	159	LEU	N-CA-C	5.27	117.19	109.24
1	G	159	LEU	N-CA-C	5.27	117.19	109.24
1	M	367	THR	N-CA-C	5.26	118.70	111.54
1	N	367	THR	N-CA-C	5.26	118.69	111.54
1	R	367	THR	N-CA-C	5.26	118.69	111.54
1	U	159	LEU	N-CA-C	5.26	117.18	109.24
1	O	367	THR	N-CA-C	5.25	118.69	111.54
1	J	159	LEU	N-CA-C	5.25	117.17	109.24
1	F	367	THR	N-CA-C	5.25	118.68	111.54
1	T	159	LEU	N-CA-C	5.25	117.17	109.24
1	G	367	THR	N-CA-C	5.25	118.67	111.54
1	K	367	THR	N-CA-C	5.25	118.68	111.54
1	P	159	LEU	N-CA-C	5.25	117.16	109.24
1	P	367	THR	N-CA-C	5.25	118.67	111.54
1	A	159	LEU	N-CA-C	5.24	117.16	109.24
1	I	367	THR	N-CA-C	5.24	118.67	111.54
1	M	159	LEU	N-CA-C	5.24	117.15	109.24
1	W	159	LEU	N-CA-C	5.24	117.15	109.24
1	J	367	THR	N-CA-C	5.24	118.66	111.54
1	L	159	LEU	N-CA-C	5.23	117.14	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	159	LEU	N-CA-C	5.23	117.14	109.24
1	E	367	THR	N-CA-C	5.23	118.65	111.54
1	N	159	LEU	N-CA-C	5.23	117.14	109.24
1	C	159	LEU	N-CA-C	5.22	117.13	109.24
1	K	159	LEU	N-CA-C	5.22	117.13	109.24
1	R	159	LEU	N-CA-C	5.22	117.12	109.24
1	H	159	LEU	N-CA-C	5.22	117.12	109.24
1	I	159	LEU	N-CA-C	5.22	117.12	109.24
1	F	159	LEU	N-CA-C	5.21	117.10	109.24
1	E	159	LEU	N-CA-C	5.21	117.10	109.24
1	D	159	LEU	N-CA-C	5.18	117.06	109.24

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3027	0	2999	453	0
1	B	3027	0	2999	447	0
1	C	3027	0	2999	452	0
1	D	3027	0	2999	450	0
1	E	3027	0	2999	449	0
1	F	3027	0	2999	475	0
1	G	3027	0	2999	477	0
1	H	3027	0	2999	473	0
1	I	3027	0	2999	475	0
1	J	3027	0	2999	474	0
1	K	3027	0	2999	477	0
1	L	3027	0	2999	479	0
1	M	3027	0	2999	465	0
1	N	3027	0	2999	475	0
1	O	3027	0	2999	473	0
1	P	3027	0	2999	475	0
1	Q	3027	0	2999	480	0
1	R	3027	0	2999	454	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	S	3027	0	2999	454	0
1	T	3027	0	2999	454	0
1	U	3027	0	2999	456	0
1	W	3027	0	2999	457	0
All	All	66594	0	65978	9135	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 69.

All (9135) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:186:THR:CG2	1:B:290:PRO:HA	1.25	1.61
1:Q:186:THR:CG2	1:Q:290:PRO:HA	1.25	1.60
1:O:186:THR:CG2	1:O:290:PRO:HA	1.25	1.60
1:R:186:THR:CG2	1:R:290:PRO:HA	1.25	1.59
1:D:186:THR:CG2	1:D:290:PRO:HA	1.25	1.59
1:H:186:THR:CG2	1:H:290:PRO:HA	1.25	1.58
1:W:186:THR:CG2	1:W:290:PRO:HA	1.25	1.58
1:A:186:THR:CG2	1:A:290:PRO:HA	1.25	1.58
1:C:186:THR:CG2	1:C:290:PRO:HA	1.25	1.58
1:E:186:THR:CG2	1:E:290:PRO:HA	1.25	1.58
1:L:186:THR:CG2	1:L:290:PRO:HA	1.25	1.58
1:G:186:THR:CG2	1:G:290:PRO:HA	1.25	1.58
1:U:186:THR:CG2	1:U:290:PRO:HA	1.25	1.58
1:M:186:THR:CG2	1:M:290:PRO:HA	1.25	1.56
1:K:186:THR:CG2	1:K:290:PRO:HA	1.25	1.56
1:F:186:THR:CG2	1:F:290:PRO:HA	1.25	1.55
1:P:186:THR:CG2	1:P:290:PRO:HA	1.25	1.55
1:S:186:THR:CG2	1:S:290:PRO:HA	1.25	1.55
1:I:186:THR:CG2	1:I:290:PRO:HA	1.25	1.55
1:N:186:THR:CG2	1:N:290:PRO:HA	1.25	1.55
1:J:186:THR:CG2	1:J:290:PRO:HA	1.25	1.54
1:T:186:THR:CG2	1:T:290:PRO:HA	1.25	1.52
1:C:501:LEU:HB3	1:C:505:ARG:NH1	1.25	1.51
1:S:501:LEU:HB3	1:S:505:ARG:NH1	1.24	1.51
1:H:501:LEU:HB3	1:H:505:ARG:NH1	1.25	1.50
1:N:501:LEU:HB3	1:N:505:ARG:NH1	1.24	1.49
1:A:173:ASN:ND2	1:A:411:ALA:HB3	1.28	1.49
1:Q:173:ASN:ND2	1:Q:411:ALA:HB3	1.28	1.48
1:A:501:LEU:HB3	1:A:505:ARG:NH1	1.24	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:501:LEU:HB3	1:M:505:ARG:NH1	1.25	1.48
1:B:173:ASN:ND2	1:B:411:ALA:HB3	1.28	1.47
1:P:173:ASN:ND2	1:P:411:ALA:HB3	1.28	1.47
1:L:178:TYR:HE2	1:L:378:ASP:CG	1.22	1.47
1:A:178:TYR:HE2	1:A:378:ASP:CG	1.22	1.46
1:F:186:THR:HG22	1:F:290:PRO:CA	1.45	1.46
1:L:173:ASN:ND2	1:L:411:ALA:HB3	1.28	1.46
1:L:186:THR:HG22	1:L:290:PRO:CA	1.45	1.46
1:R:173:ASN:ND2	1:R:411:ALA:HB3	1.28	1.46
1:S:186:THR:HG22	1:S:290:PRO:CA	1.45	1.46
1:B:186:THR:HG22	1:B:290:PRO:CA	1.45	1.46
1:L:501:LEU:HB3	1:L:505:ARG:NH1	1.24	1.46
1:M:186:THR:HG22	1:M:290:PRO:CA	1.45	1.46
1:F:178:TYR:HE2	1:F:378:ASP:CG	1.22	1.46
1:G:178:TYR:HE2	1:G:378:ASP:CG	1.22	1.46
1:Q:178:TYR:HE2	1:Q:378:ASP:CG	1.22	1.46
1:W:186:THR:HG22	1:W:290:PRO:CA	1.45	1.46
1:I:501:LEU:HB3	1:I:505:ARG:NH1	1.25	1.46
1:R:178:TYR:HE2	1:R:378:ASP:CG	1.22	1.46
1:Q:501:LEU:HB3	1:Q:505:ARG:NH1	1.24	1.46
1:C:186:THR:HG22	1:C:290:PRO:CA	1.45	1.45
1:P:186:THR:HG22	1:P:290:PRO:CA	1.45	1.45
1:R:186:THR:HG22	1:R:290:PRO:CA	1.45	1.45
1:W:178:TYR:HE2	1:W:378:ASP:CG	1.22	1.45
1:A:148:GLY:CA	1:A:153:GLU:OE1	1.65	1.45
1:C:178:TYR:HE2	1:C:378:ASP:CG	1.22	1.45
1:F:148:GLY:CA	1:F:153:GLU:OE1	1.65	1.45
1:J:178:TYR:HE2	1:J:378:ASP:CG	1.22	1.45
1:J:501:LEU:HB3	1:J:505:ARG:NH1	1.24	1.45
1:K:178:TYR:HE2	1:K:378:ASP:CG	1.22	1.45
1:M:173:ASN:ND2	1:M:411:ALA:HB3	1.28	1.45
1:M:178:TYR:HE2	1:M:378:ASP:CG	1.22	1.45
1:N:178:TYR:HE2	1:N:378:ASP:CG	1.22	1.45
1:U:178:TYR:HE2	1:U:378:ASP:CG	1.22	1.45
1:B:178:TYR:HE2	1:B:378:ASP:CG	1.22	1.45
1:F:173:ASN:ND2	1:F:411:ALA:HB3	1.28	1.45
1:I:178:TYR:HE2	1:I:378:ASP:CG	1.22	1.45
1:I:186:THR:HG22	1:I:290:PRO:CA	1.45	1.45
1:K:173:ASN:ND2	1:K:411:ALA:HB3	1.28	1.45
1:O:501:LEU:HB3	1:O:505:ARG:NH1	1.25	1.45
1:R:501:LEU:HB3	1:R:505:ARG:NH1	1.24	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:148:GLY:CA	1:E:153:GLU:OE1	1.65	1.44
1:E:173:ASN:ND2	1:E:411:ALA:HB3	1.28	1.44
1:G:186:THR:HG22	1:G:290:PRO:CA	1.45	1.44
1:K:148:GLY:CA	1:K:153:GLU:OE1	1.65	1.44
1:O:178:TYR:HE2	1:O:378:ASP:CG	1.22	1.44
1:S:173:ASN:ND2	1:S:411:ALA:HB3	1.28	1.44
1:E:186:THR:HG22	1:E:290:PRO:CA	1.45	1.44
1:G:501:LEU:HB3	1:G:505:ARG:NH1	1.25	1.44
1:H:186:THR:HG22	1:H:290:PRO:CA	1.45	1.44
1:T:178:TYR:HE2	1:T:378:ASP:CG	1.22	1.44
1:D:178:TYR:HE2	1:D:378:ASP:CG	1.22	1.44
1:F:501:LEU:HB3	1:F:505:ARG:NH1	1.24	1.44
1:J:148:GLY:CA	1:J:153:GLU:OE1	1.65	1.44
1:Q:186:THR:HG22	1:Q:290:PRO:CA	1.45	1.44
1:U:501:LEU:HB3	1:U:505:ARG:NH1	1.24	1.44
1:A:186:THR:HG22	1:A:290:PRO:CA	1.45	1.44
1:J:173:ASN:ND2	1:J:411:ALA:HB3	1.28	1.44
1:K:186:THR:HG22	1:K:290:PRO:CA	1.45	1.44
1:P:148:GLY:CA	1:P:153:GLU:OE1	1.65	1.44
1:E:501:LEU:HB3	1:E:505:ARG:NH1	1.25	1.43
1:G:148:GLY:CA	1:G:153:GLU:OE1	1.65	1.43
1:O:186:THR:HG22	1:O:290:PRO:CA	1.45	1.43
1:J:186:THR:HG22	1:J:290:PRO:CA	1.45	1.43
1:P:178:TYR:HE2	1:P:378:ASP:CG	1.22	1.43
1:T:186:THR:HG22	1:T:290:PRO:CA	1.45	1.43
1:W:501:LEU:HB3	1:W:505:ARG:NH1	1.24	1.43
1:B:148:GLY:CA	1:B:153:GLU:OE1	1.65	1.43
1:E:178:TYR:HE2	1:E:378:ASP:CG	1.22	1.43
1:G:173:ASN:ND2	1:G:411:ALA:HB3	1.28	1.43
1:H:178:TYR:HE2	1:H:378:ASP:CG	1.22	1.43
1:L:148:GLY:CA	1:L:153:GLU:OE1	1.65	1.43
1:O:148:GLY:CA	1:O:153:GLU:OE1	1.65	1.43
1:S:178:TYR:HE2	1:S:378:ASP:CG	1.22	1.43
1:T:501:LEU:HB3	1:T:505:ARG:NH1	1.25	1.43
1:I:173:ASN:ND2	1:I:411:ALA:HB3	1.28	1.42
1:N:186:THR:HG22	1:N:290:PRO:CA	1.45	1.42
1:R:148:GLY:CA	1:R:153:GLU:OE1	1.65	1.42
1:B:501:LEU:HB3	1:B:505:ARG:NH1	1.24	1.42
1:U:148:GLY:CA	1:U:153:GLU:OE1	1.65	1.42
1:H:173:ASN:ND2	1:H:411:ALA:HB3	1.28	1.42
1:Q:148:GLY:CA	1:Q:153:GLU:OE1	1.65	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:186:THR:HG22	1:U:290:PRO:CA	1.45	1.42
1:O:173:ASN:ND2	1:O:411:ALA:HB3	1.28	1.42
1:S:148:GLY:CA	1:S:153:GLU:OE1	1.65	1.42
1:W:148:GLY:CA	1:W:153:GLU:OE1	1.65	1.42
1:C:173:ASN:ND2	1:C:411:ALA:HB3	1.28	1.42
1:T:148:GLY:CA	1:T:153:GLU:OE1	1.65	1.42
1:T:173:ASN:ND2	1:T:411:ALA:HB3	1.28	1.42
1:D:501:LEU:HB3	1:D:505:ARG:NH1	1.24	1.41
1:D:148:GLY:CA	1:D:153:GLU:OE1	1.65	1.41
1:D:186:THR:HG22	1:D:290:PRO:CA	1.45	1.41
1:N:148:GLY:CA	1:N:153:GLU:OE1	1.65	1.41
1:I:148:GLY:CA	1:I:153:GLU:OE1	1.65	1.41
1:M:148:GLY:CA	1:M:153:GLU:OE1	1.65	1.41
1:W:173:ASN:ND2	1:W:411:ALA:HB3	1.28	1.41
1:C:148:GLY:CA	1:C:153:GLU:OE1	1.65	1.40
1:H:148:GLY:CA	1:H:153:GLU:OE1	1.65	1.40
1:U:173:ASN:ND2	1:U:411:ALA:HB3	1.28	1.40
1:P:501:LEU:HB3	1:P:505:ARG:NH1	1.25	1.40
1:K:501:LEU:HB3	1:K:505:ARG:NH1	1.24	1.39
1:N:173:ASN:ND2	1:N:411:ALA:HB3	1.28	1.39
1:H:469:TYR:CD2	1:S:501:LEU:HD21	1.58	1.39
1:D:173:ASN:ND2	1:D:411:ALA:HB3	1.28	1.38
1:W:318:LYS:HE3	1:W:330:GLU:OE2	1.21	1.38
1:E:318:LYS:HE3	1:E:330:GLU:OE2	1.21	1.37
1:C:469:TYR:CD2	1:N:501:LEU:HD21	1.60	1.37
1:J:469:TYR:CD2	1:U:501:LEU:HD21	1.60	1.36
1:K:469:TYR:CD2	1:W:501:LEU:HD21	1.60	1.36
1:A:469:TYR:CD2	1:L:501:LEU:HD21	1.60	1.36
1:D:469:TYR:CD2	1:O:501:LEU:HD21	1.60	1.36
1:B:469:TYR:CD2	1:M:501:LEU:HD21	1.59	1.35
1:F:469:TYR:CD2	1:Q:501:LEU:HD21	1.61	1.35
1:I:469:TYR:CD2	1:T:501:LEU:HD21	1.59	1.35
1:K:318:LYS:HE3	1:K:330:GLU:OE2	1.21	1.35
1:O:318:LYS:HE3	1:O:330:GLU:OE2	1.21	1.34
1:E:469:TYR:CD2	1:P:501:LEU:HD21	1.61	1.34
1:H:469:TYR:CD2	1:S:501:LEU:CD2	2.11	1.34
1:L:318:LYS:HE3	1:L:330:GLU:OE2	1.21	1.34
1:N:82:ASN:OD1	1:N:433:ARG:NH2	1.61	1.34
1:H:82:ASN:OD1	1:H:433:ARG:NH2	1.61	1.33
1:S:82:ASN:OD1	1:S:433:ARG:NH2	1.61	1.33
1:D:318:LYS:HE3	1:D:330:GLU:OE2	1.21	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:82:ASN:OD1	1:I:433:ARG:NH2	1.61	1.33
1:M:82:ASN:OD1	1:M:433:ARG:NH2	1.61	1.33
1:C:82:ASN:OD1	1:C:433:ARG:NH2	1.61	1.33
1:R:82:ASN:OD1	1:R:433:ARG:NH2	1.61	1.33
1:U:318:LYS:HE3	1:U:330:GLU:OE2	1.21	1.33
1:A:318:LYS:HE3	1:A:330:GLU:OE2	1.21	1.32
1:G:469:TYR:CD2	1:R:501:LEU:HD21	1.62	1.32
1:P:318:LYS:HE3	1:P:330:GLU:OE2	1.21	1.32
1:T:82:ASN:OD1	1:T:433:ARG:NH2	1.61	1.32
1:D:82:ASN:OD1	1:D:433:ARG:NH2	1.61	1.32
1:J:4:ILE:HG13	1:J:501:LEU:CD1	1.60	1.32
1:O:4:ILE:HG13	1:O:501:LEU:CD1	1.60	1.32
1:P:4:ILE:HG13	1:P:501:LEU:CD1	1.59	1.32
1:U:4:ILE:HG13	1:U:501:LEU:CD1	1.60	1.32
1:D:4:ILE:HG13	1:D:501:LEU:CD1	1.60	1.32
1:E:4:ILE:HG13	1:E:501:LEU:CD1	1.60	1.32
1:K:4:ILE:HG13	1:K:501:LEU:CD1	1.59	1.32
1:I:4:ILE:HG13	1:I:501:LEU:CD1	1.60	1.31
1:J:469:TYR:CD2	1:U:501:LEU:CD2	2.13	1.31
1:T:4:ILE:HG13	1:T:501:LEU:CD1	1.60	1.31
1:W:4:ILE:HG13	1:W:501:LEU:CD1	1.60	1.31
1:G:82:ASN:OD1	1:G:433:ARG:NH2	1.61	1.31
1:O:82:ASN:OD1	1:O:433:ARG:NH2	1.61	1.31
1:F:4:ILE:HG13	1:F:501:LEU:CD1	1.60	1.31
1:L:186:THR:HB	1:L:289:THR:O	1.31	1.31
1:A:82:ASN:OD1	1:A:433:ARG:NH2	1.61	1.31
1:N:4:ILE:HG13	1:N:501:LEU:CD1	1.60	1.31
1:Q:4:ILE:HG13	1:Q:501:LEU:CD1	1.60	1.31
1:B:82:ASN:OD1	1:B:433:ARG:NH2	1.61	1.30
1:N:186:THR:HB	1:N:289:THR:O	1.31	1.30
1:C:4:ILE:HG13	1:C:501:LEU:CD1	1.60	1.30
1:C:186:THR:HB	1:C:289:THR:O	1.31	1.30
1:D:469:TYR:CD2	1:O:501:LEU:CD2	2.15	1.30
1:G:4:ILE:HG13	1:G:501:LEU:CD1	1.60	1.30
1:J:82:ASN:OD1	1:J:433:ARG:NH2	1.61	1.30
1:F:318:LYS:HE3	1:F:330:GLU:OE2	1.21	1.30
1:K:186:THR:HB	1:K:289:THR:O	1.31	1.30
1:M:186:THR:HB	1:M:289:THR:O	1.31	1.30
1:R:4:ILE:HG13	1:R:501:LEU:CD1	1.60	1.30
1:T:186:THR:HB	1:T:289:THR:O	1.31	1.30
1:A:4:ILE:HG13	1:A:501:LEU:CD1	1.60	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:186:THR:HB	1:D:289:THR:O	1.31	1.30
1:E:82:ASN:OD1	1:E:433:ARG:NH2	1.61	1.30
1:I:469:TYR:CD2	1:T:501:LEU:CD2	2.13	1.30
1:L:82:ASN:OD1	1:L:433:ARG:NH2	1.61	1.30
1:M:4:ILE:HG13	1:M:501:LEU:CD1	1.59	1.30
1:K:469:TYR:CD2	1:W:501:LEU:CD2	2.13	1.29
1:L:4:ILE:HG13	1:L:501:LEU:CD1	1.60	1.29
1:S:4:ILE:HG13	1:S:501:LEU:CD1	1.60	1.29
1:N:318:LYS:HE3	1:N:330:GLU:OE2	1.21	1.29
1:B:4:ILE:HG13	1:B:501:LEU:CD1	1.59	1.29
1:H:4:ILE:HG13	1:H:501:LEU:CD1	1.60	1.29
1:S:186:THR:HB	1:S:289:THR:O	1.31	1.29
1:Q:82:ASN:OD1	1:Q:433:ARG:NH2	1.61	1.29
1:U:186:THR:HB	1:U:289:THR:O	1.31	1.29
1:W:82:ASN:OD1	1:W:433:ARG:NH2	1.61	1.29
1:W:186:THR:HB	1:W:289:THR:O	1.31	1.29
1:A:419:LEU:CD1	1:L:151:ASP:OD1	1.81	1.29
1:B:186:THR:HB	1:B:289:THR:O	1.31	1.29
1:F:82:ASN:OD1	1:F:433:ARG:NH2	1.61	1.29
1:B:318:LYS:HE3	1:B:330:GLU:OE2	1.21	1.28
1:E:186:THR:HB	1:E:289:THR:O	1.31	1.28
1:M:318:LYS:HE3	1:M:330:GLU:OE2	1.21	1.28
1:B:469:TYR:CD2	1:M:501:LEU:CD2	2.15	1.28
1:C:469:TYR:CD2	1:N:501:LEU:CD2	2.15	1.28
1:A:186:THR:HB	1:A:289:THR:O	1.31	1.28
1:C:318:LYS:HE3	1:C:330:GLU:OE2	1.21	1.28
1:A:469:TYR:CD2	1:L:501:LEU:CD2	2.15	1.28
1:B:419:LEU:CD1	1:M:151:ASP:OD1	1.81	1.28
1:C:178:TYR:CE2	1:C:378:ASP:CG	2.12	1.28
1:F:186:THR:HB	1:F:289:THR:O	1.31	1.28
1:F:469:TYR:CD2	1:Q:501:LEU:CD2	2.15	1.28
1:K:82:ASN:OD1	1:K:433:ARG:NH2	1.61	1.28
1:N:178:TYR:CE2	1:N:378:ASP:CG	2.12	1.28
1:E:469:TYR:CD2	1:P:501:LEU:CD2	2.16	1.28
1:J:318:LYS:HE3	1:J:330:GLU:OE2	1.21	1.28
1:R:186:THR:HB	1:R:289:THR:O	1.31	1.28
1:U:82:ASN:OD1	1:U:433:ARG:NH2	1.61	1.28
1:D:4:ILE:CD1	1:D:497:PRO:HB3	1.65	1.27
1:G:178:TYR:CE2	1:G:378:ASP:CG	2.12	1.27
1:Q:178:TYR:CE2	1:Q:378:ASP:CG	2.12	1.27
1:D:178:TYR:CE2	1:D:378:ASP:CG	2.12	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:178:TYR:CE2	1:F:378:ASP:CG	2.12	1.27
1:K:4:ILE:CD1	1:K:497:PRO:HB3	1.65	1.27
1:O:178:TYR:CE2	1:O:378:ASP:CG	2.12	1.27
1:R:178:TYR:CE2	1:R:378:ASP:CG	2.12	1.27
1:T:4:ILE:CD1	1:T:497:PRO:HB3	1.65	1.27
1:A:178:TYR:CE2	1:A:378:ASP:CG	2.12	1.27
1:O:4:ILE:CD1	1:O:497:PRO:HB3	1.65	1.27
1:O:186:THR:HB	1:O:289:THR:O	1.31	1.27
1:P:4:ILE:CD1	1:P:497:PRO:HB3	1.65	1.27
1:P:178:TYR:CE2	1:P:378:ASP:CG	2.12	1.27
1:Q:318:LYS:HE3	1:Q:330:GLU:OE2	1.21	1.27
1:F:419:LEU:CD1	1:Q:151:ASP:OD1	1.82	1.27
1:G:469:TYR:CD2	1:R:501:LEU:CD2	2.16	1.27
1:M:178:TYR:CE2	1:M:378:ASP:CG	2.12	1.27
1:P:82:ASN:OD1	1:P:433:ARG:NH2	1.61	1.27
1:E:178:TYR:CE2	1:E:378:ASP:CG	2.12	1.27
1:F:4:ILE:CD1	1:F:497:PRO:HB3	1.65	1.27
1:J:186:THR:HB	1:J:289:THR:O	1.31	1.27
1:L:178:TYR:CE2	1:L:378:ASP:CG	2.12	1.27
1:Q:186:THR:HB	1:Q:289:THR:O	1.31	1.27
1:R:4:ILE:CD1	1:R:497:PRO:HB3	1.65	1.27
1:B:178:TYR:CE2	1:B:378:ASP:CG	2.12	1.26
1:I:4:ILE:CD1	1:I:497:PRO:HB3	1.65	1.26
1:K:178:TYR:CE2	1:K:378:ASP:CG	2.12	1.26
1:T:318:LYS:HE3	1:T:330:GLU:OE2	1.21	1.26
1:T:345:ASP:OD2	1:T:356:LYS:HE3	1.35	1.26
1:B:4:ILE:CD1	1:B:497:PRO:HB3	1.65	1.26
1:F:4:ILE:CD1	1:F:497:PRO:CB	2.14	1.26
1:L:4:ILE:CD1	1:L:497:PRO:CB	2.14	1.26
1:O:345:ASP:OD2	1:O:356:LYS:HE3	1.36	1.26
1:R:318:LYS:HE3	1:R:330:GLU:OE2	1.21	1.26
1:C:4:ILE:CD1	1:C:497:PRO:CB	2.14	1.26
1:D:419:LEU:CD1	1:O:151:ASP:OD1	1.84	1.26
1:G:4:ILE:CD1	1:G:497:PRO:HB3	1.65	1.26
1:G:345:ASP:OD2	1:G:356:LYS:HE3	1.35	1.26
1:H:178:TYR:CE2	1:H:378:ASP:CG	2.12	1.26
1:J:419:LEU:CD1	1:U:151:ASP:OD1	1.83	1.26
1:M:4:ILE:CD1	1:M:497:PRO:HB3	1.65	1.26
1:R:4:ILE:CD1	1:R:497:PRO:CB	2.14	1.26
1:S:318:LYS:HE3	1:S:330:GLU:OE2	1.21	1.26
1:W:4:ILE:CD1	1:W:497:PRO:HB3	1.65	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:178:TYR:CE2	1:W:378:ASP:CG	2.12	1.26
1:D:345:ASP:OD2	1:D:356:LYS:HE3	1.35	1.26
1:H:4:ILE:CD1	1:H:497:PRO:HB3	1.65	1.26
1:B:345:ASP:OD2	1:B:356:LYS:HE3	1.36	1.26
1:B:360:TYR:OH	1:B:386:ILE:HG12	1.35	1.26
1:I:318:LYS:HE3	1:I:330:GLU:OE2	1.21	1.26
1:I:419:LEU:CD1	1:T:151:ASP:OD1	1.84	1.26
1:J:4:ILE:CD1	1:J:497:PRO:HB3	1.65	1.26
1:L:4:ILE:CD1	1:L:497:PRO:HB3	1.65	1.26
1:S:178:TYR:CE2	1:S:378:ASP:CG	2.12	1.26
1:T:178:TYR:CE2	1:T:378:ASP:CG	2.12	1.26
1:U:4:ILE:CD1	1:U:497:PRO:HB3	1.65	1.26
1:A:4:ILE:CD1	1:A:497:PRO:HB3	1.65	1.25
1:A:345:ASP:OD2	1:A:356:LYS:HE3	1.36	1.25
1:C:4:ILE:CD1	1:C:497:PRO:HB3	1.65	1.25
1:G:4:ILE:CG1	1:G:501:LEU:HD11	1.66	1.25
1:G:186:THR:HB	1:G:289:THR:O	1.31	1.25
1:I:345:ASP:OD2	1:I:356:LYS:HE3	1.36	1.25
1:S:4:ILE:CD1	1:S:497:PRO:CB	2.14	1.25
1:A:4:ILE:CD1	1:A:497:PRO:CB	2.14	1.25
1:E:4:ILE:CD1	1:E:497:PRO:HB3	1.65	1.25
1:E:419:LEU:CD1	1:P:151:ASP:OD1	1.83	1.25
1:G:4:ILE:CD1	1:G:497:PRO:CB	2.14	1.25
1:H:419:LEU:CD1	1:S:151:ASP:OD1	1.83	1.25
1:I:4:ILE:CD1	1:I:497:PRO:CB	2.14	1.25
1:I:178:TYR:CE2	1:I:378:ASP:CG	2.12	1.25
1:J:345:ASP:OD2	1:J:356:LYS:HE3	1.36	1.25
1:K:4:ILE:CD1	1:K:497:PRO:CB	2.14	1.25
1:L:345:ASP:OD2	1:L:356:LYS:HE3	1.36	1.25
1:N:4:ILE:CD1	1:N:497:PRO:HB3	1.65	1.25
1:Q:4:ILE:CD1	1:Q:497:PRO:CB	2.14	1.25
1:R:4:ILE:CG1	1:R:501:LEU:HD11	1.66	1.25
1:B:4:ILE:CD1	1:B:497:PRO:CB	2.14	1.25
1:C:419:LEU:CD1	1:N:151:ASP:OD1	1.85	1.25
1:H:4:ILE:CD1	1:H:497:PRO:CB	2.14	1.25
1:D:4:ILE:CD1	1:D:497:PRO:CB	2.14	1.25
1:E:4:ILE:CD1	1:E:497:PRO:CB	2.14	1.25
1:I:186:THR:HB	1:I:289:THR:O	1.31	1.25
1:M:4:ILE:CD1	1:M:497:PRO:CB	2.14	1.25
1:R:360:TYR:OH	1:R:386:ILE:HG12	1.35	1.25
1:U:4:ILE:CG1	1:U:501:LEU:HD11	1.66	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:180:VAL:HG22	1:G:321:TYR:CD1	1.72	1.25
1:G:419:LEU:CD1	1:R:151:ASP:OD1	1.84	1.25
1:H:186:THR:HB	1:H:289:THR:O	1.31	1.25
1:J:4:ILE:CG1	1:J:501:LEU:HD11	1.66	1.25
1:J:178:TYR:CE2	1:J:378:ASP:CG	2.12	1.25
1:M:4:ILE:CG1	1:M:501:LEU:HD11	1.66	1.25
1:O:4:ILE:CG1	1:O:501:LEU:HD11	1.66	1.25
1:P:4:ILE:CG1	1:P:501:LEU:HD11	1.66	1.25
1:Q:4:ILE:CD1	1:Q:497:PRO:HB3	1.65	1.25
1:R:345:ASP:OD2	1:R:356:LYS:HE3	1.35	1.25
1:U:345:ASP:OD2	1:U:356:LYS:HE3	1.36	1.25
1:D:386:ILE:HG21	1:D:401:PHE:CE2	1.72	1.25
1:H:318:LYS:HE3	1:H:330:GLU:OE2	1.21	1.25
1:I:373:GLN:CB	1:I:383:VAL:HG23	1.67	1.25
1:N:4:ILE:CD1	1:N:497:PRO:CB	2.14	1.25
1:R:373:GLN:CB	1:R:383:VAL:HG23	1.68	1.25
1:B:4:ILE:CG1	1:B:501:LEU:HD11	1.66	1.24
1:B:180:VAL:HG22	1:B:321:TYR:CD1	1.72	1.24
1:B:373:GLN:CB	1:B:383:VAL:HG23	1.67	1.24
1:C:4:ILE:CG1	1:C:501:LEU:HD11	1.66	1.24
1:D:4:ILE:CG1	1:D:501:LEU:HD11	1.66	1.24
1:E:345:ASP:OD2	1:E:356:LYS:HE3	1.36	1.24
1:F:345:ASP:OD2	1:F:356:LYS:HE3	1.36	1.24
1:G:318:LYS:HE3	1:G:330:GLU:OE2	1.21	1.24
1:K:180:VAL:HG22	1:K:321:TYR:CD1	1.72	1.24
1:N:4:ILE:CG1	1:N:501:LEU:HD11	1.66	1.24
1:N:345:ASP:OD2	1:N:356:LYS:HE3	1.35	1.24
1:N:386:ILE:HG21	1:N:401:PHE:CE2	1.73	1.24
1:Q:4:ILE:CG1	1:Q:501:LEU:HD11	1.66	1.24
1:R:180:VAL:HG22	1:R:321:TYR:CD1	1.72	1.24
1:U:178:TYR:CE2	1:U:378:ASP:CG	2.12	1.24
1:U:386:ILE:HG21	1:U:401:PHE:CE2	1.73	1.24
1:E:4:ILE:CG1	1:E:501:LEU:HD11	1.66	1.24
1:J:4:ILE:CD1	1:J:497:PRO:CB	2.14	1.24
1:K:345:ASP:OD2	1:K:356:LYS:HE3	1.35	1.24
1:M:373:GLN:CB	1:M:383:VAL:HG23	1.68	1.24
1:N:360:TYR:OH	1:N:386:ILE:HG12	1.35	1.24
1:N:373:GLN:CB	1:N:383:VAL:HG23	1.68	1.24
1:Q:345:ASP:OD2	1:Q:356:LYS:HE3	1.36	1.24
1:T:4:ILE:CG1	1:T:501:LEU:HD11	1.66	1.24
1:W:4:ILE:CD1	1:W:497:PRO:CB	2.14	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:373:GLN:CB	1:D:383:VAL:HG23	1.68	1.24
1:F:4:ILE:CG1	1:F:501:LEU:HD11	1.66	1.24
1:F:180:VAL:HG22	1:F:321:TYR:CD1	1.72	1.24
1:F:373:GLN:CB	1:F:383:VAL:HG23	1.68	1.24
1:G:360:TYR:OH	1:G:386:ILE:HG12	1.35	1.24
1:J:386:ILE:HG21	1:J:401:PHE:CE2	1.73	1.24
1:K:373:GLN:CB	1:K:383:VAL:HG23	1.67	1.24
1:K:386:ILE:HG21	1:K:401:PHE:CE2	1.73	1.24
1:L:180:VAL:HG22	1:L:321:TYR:CD1	1.72	1.24
1:M:345:ASP:OD2	1:M:356:LYS:HE3	1.36	1.24
1:M:360:TYR:OH	1:M:386:ILE:HG12	1.35	1.24
1:P:345:ASP:OD2	1:P:356:LYS:HE3	1.36	1.24
1:S:4:ILE:CD1	1:S:497:PRO:HB3	1.65	1.24
1:T:386:ILE:HG21	1:T:401:PHE:CE2	1.73	1.24
1:W:4:ILE:CG1	1:W:501:LEU:HD11	1.66	1.24
1:A:373:GLN:CB	1:A:383:VAL:HG23	1.67	1.24
1:E:386:ILE:HG21	1:E:401:PHE:CE2	1.73	1.24
1:F:180:VAL:CG2	1:F:321:TYR:HD1	1.51	1.24
1:H:4:ILE:CG1	1:H:501:LEU:HD11	1.66	1.24
1:I:4:ILE:CG1	1:I:501:LEU:HD11	1.66	1.24
1:K:4:ILE:CG1	1:K:501:LEU:HD11	1.66	1.24
1:O:4:ILE:CD1	1:O:497:PRO:CB	2.14	1.24
1:P:180:VAL:HG22	1:P:321:TYR:CD1	1.72	1.24
1:P:373:GLN:CB	1:P:383:VAL:HG23	1.67	1.24
1:T:4:ILE:CD1	1:T:497:PRO:CB	2.14	1.24
1:A:180:VAL:CG2	1:A:321:TYR:HD1	1.51	1.24
1:G:373:GLN:CB	1:G:383:VAL:HG23	1.68	1.24
1:H:386:ILE:HG21	1:H:401:PHE:CE2	1.73	1.24
1:K:419:LEU:CD1	1:W:151:ASP:OD1	1.84	1.24
1:O:386:ILE:HG21	1:O:401:PHE:CE2	1.73	1.24
1:P:4:ILE:CD1	1:P:497:PRO:CB	2.14	1.24
1:R:180:VAL:CG2	1:R:321:TYR:HD1	1.51	1.24
1:S:360:TYR:OH	1:S:386:ILE:HG12	1.35	1.24
1:T:373:GLN:CB	1:T:383:VAL:HG23	1.67	1.24
1:U:373:GLN:CB	1:U:383:VAL:HG23	1.67	1.24
1:W:180:VAL:CG2	1:W:321:TYR:HD1	1.51	1.24
1:A:373:GLN:O	1:A:382:GLU:HA	1.38	1.23
1:C:386:ILE:HG21	1:C:401:PHE:CE2	1.73	1.23
1:J:136:VAL:O	1:J:159:LEU:HD13	1.38	1.23
1:J:360:TYR:OH	1:J:386:ILE:HG12	1.35	1.23
1:K:180:VAL:CG2	1:K:321:TYR:HD1	1.51	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:373:GLN:O	1:K:382:GLU:HA	1.38	1.23
1:M:180:VAL:CG2	1:M:321:TYR:HD1	1.51	1.23
1:P:186:THR:HB	1:P:289:THR:O	1.31	1.23
1:Q:386:ILE:HG21	1:Q:401:PHE:CE2	1.73	1.23
1:W:180:VAL:HG22	1:W:321:TYR:CD1	1.72	1.23
1:A:136:VAL:O	1:A:159:LEU:HD13	1.38	1.23
1:A:386:ILE:HG21	1:A:401:PHE:CE2	1.73	1.23
1:G:386:ILE:HG21	1:G:401:PHE:CE2	1.73	1.23
1:K:136:VAL:O	1:K:159:LEU:HD13	1.38	1.23
1:Q:180:VAL:CG2	1:Q:321:TYR:HD1	1.51	1.23
1:S:373:GLN:CB	1:S:383:VAL:HG23	1.67	1.23
1:W:345:ASP:OD2	1:W:356:LYS:HE3	1.36	1.23
1:W:373:GLN:CB	1:W:383:VAL:HG23	1.67	1.23
1:H:373:GLN:CB	1:H:383:VAL:HG23	1.68	1.23
1:M:180:VAL:HG22	1:M:321:TYR:CD1	1.72	1.23
1:M:386:ILE:HG21	1:M:401:PHE:CE2	1.73	1.23
1:R:386:ILE:HG21	1:R:401:PHE:CE2	1.73	1.23
1:S:4:ILE:CG1	1:S:501:LEU:HD11	1.66	1.23
1:S:180:VAL:HG22	1:S:321:TYR:CD1	1.72	1.23
1:U:4:ILE:CD1	1:U:497:PRO:CB	2.14	1.23
1:A:180:VAL:HG22	1:A:321:TYR:CD1	1.72	1.23
1:K:360:TYR:OH	1:K:386:ILE:HG12	1.35	1.23
1:L:136:VAL:O	1:L:159:LEU:HD13	1.39	1.23
1:N:180:VAL:HG22	1:N:321:TYR:CD1	1.72	1.23
1:U:180:VAL:HG22	1:U:321:TYR:CD1	1.72	1.23
1:W:386:ILE:HG21	1:W:401:PHE:CE2	1.73	1.23
1:A:4:ILE:CG1	1:A:501:LEU:HD11	1.66	1.23
1:B:180:VAL:CG2	1:B:321:TYR:HD1	1.51	1.23
1:E:180:VAL:HG22	1:E:321:TYR:CD1	1.72	1.23
1:E:373:GLN:CB	1:E:383:VAL:HG23	1.67	1.23
1:H:180:VAL:CG2	1:H:321:TYR:HD1	1.51	1.23
1:I:360:TYR:OH	1:I:386:ILE:HG12	1.35	1.23
1:P:360:TYR:OH	1:P:386:ILE:HG12	1.35	1.23
1:P:386:ILE:HG21	1:P:401:PHE:CE2	1.73	1.23
1:Q:373:GLN:CB	1:Q:383:VAL:HG23	1.67	1.23
1:R:136:VAL:O	1:R:159:LEU:HD13	1.38	1.23
1:R:373:GLN:O	1:R:382:GLU:HA	1.38	1.23
1:B:386:ILE:HG21	1:B:401:PHE:CE2	1.73	1.22
1:C:373:GLN:CB	1:C:383:VAL:HG23	1.68	1.22
1:D:180:VAL:HG22	1:D:321:TYR:CD1	1.72	1.22
1:I:180:VAL:HG22	1:I:321:TYR:CD1	1.72	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:373:GLN:CB	1:O:383:VAL:HG23	1.67	1.22
1:Q:136:VAL:O	1:Q:159:LEU:HD13	1.39	1.22
1:Q:373:GLN:O	1:Q:382:GLU:HA	1.38	1.22
1:E:4:ILE:HD11	1:E:497:PRO:CB	1.69	1.22
1:E:373:GLN:O	1:E:382:GLU:HA	1.38	1.22
1:I:386:ILE:HG21	1:I:401:PHE:CE2	1.73	1.22
1:L:373:GLN:CB	1:L:383:VAL:HG23	1.67	1.22
1:O:180:VAL:HG22	1:O:321:TYR:CD1	1.72	1.22
1:Q:180:VAL:HG22	1:Q:321:TYR:CD1	1.72	1.22
1:S:345:ASP:OD2	1:S:356:LYS:HE3	1.36	1.22
1:S:386:ILE:HG21	1:S:401:PHE:CE2	1.72	1.22
1:B:136:VAL:O	1:B:159:LEU:HD13	1.38	1.22
1:C:345:ASP:OD2	1:C:356:LYS:HE3	1.36	1.22
1:H:345:ASP:OD2	1:H:356:LYS:HE3	1.36	1.22
1:I:136:VAL:O	1:I:159:LEU:HD13	1.38	1.22
1:J:4:ILE:HD11	1:J:497:PRO:CB	1.70	1.22
1:L:4:ILE:CG1	1:L:501:LEU:HD11	1.66	1.22
1:L:180:VAL:CG2	1:L:321:TYR:HD1	1.51	1.22
1:L:373:GLN:O	1:L:382:GLU:HA	1.38	1.22
1:L:386:ILE:HG21	1:L:401:PHE:CE2	1.73	1.22
1:O:4:ILE:HD11	1:O:497:PRO:CB	1.69	1.22
1:P:4:ILE:HD11	1:P:497:PRO:CB	1.69	1.22
1:P:136:VAL:O	1:P:159:LEU:HD13	1.38	1.22
1:P:180:VAL:CG2	1:P:321:TYR:HD1	1.51	1.22
1:U:4:ILE:HD11	1:U:497:PRO:CB	1.70	1.22
1:W:373:GLN:O	1:W:382:GLU:HA	1.38	1.22
1:B:419:LEU:HD12	1:M:151:ASP:OD1	1.38	1.22
1:C:180:VAL:HG22	1:C:321:TYR:CD1	1.72	1.22
1:F:386:ILE:HG21	1:F:401:PHE:CE2	1.73	1.22
1:G:180:VAL:CG2	1:G:321:TYR:HD1	1.51	1.22
1:G:373:GLN:O	1:G:382:GLU:HA	1.38	1.22
1:T:180:VAL:HG22	1:T:321:TYR:CD1	1.72	1.22
1:T:180:VAL:CG2	1:T:321:TYR:HD1	1.51	1.22
1:A:4:ILE:HD11	1:A:497:PRO:CB	1.70	1.22
1:J:373:GLN:CB	1:J:383:VAL:HG23	1.68	1.22
1:K:4:ILE:HD11	1:K:497:PRO:CB	1.70	1.22
1:O:180:VAL:CG2	1:O:321:TYR:HD1	1.51	1.22
1:T:4:ILE:HD11	1:T:497:PRO:CB	1.69	1.22
1:U:373:GLN:O	1:U:382:GLU:HA	1.38	1.22
1:A:186:THR:CG2	1:A:290:PRO:CA	2.11	1.21
1:C:360:TYR:OH	1:C:386:ILE:HG12	1.35	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:180:VAL:CG2	1:D:321:TYR:HD1	1.51	1.21
1:F:4:ILE:HD11	1:F:497:PRO:CB	1.69	1.21
1:H:180:VAL:HG22	1:H:321:TYR:CD1	1.72	1.21
1:J:180:VAL:CG2	1:J:321:TYR:HD1	1.51	1.21
1:B:186:THR:CG2	1:B:290:PRO:CA	2.11	1.21
1:C:180:VAL:CG2	1:C:321:TYR:HD1	1.51	1.21
1:E:180:VAL:CG2	1:E:321:TYR:HD1	1.51	1.21
1:J:180:VAL:HG22	1:J:321:TYR:CD1	1.72	1.21
1:S:136:VAL:O	1:S:159:LEU:HD13	1.39	1.21
1:D:4:ILE:HD11	1:D:497:PRO:CB	1.70	1.21
1:I:180:VAL:CG2	1:I:321:TYR:HD1	1.51	1.21
1:O:360:TYR:OH	1:O:386:ILE:HG12	1.35	1.21
1:A:360:TYR:OH	1:A:386:ILE:HG12	1.35	1.21
1:F:360:TYR:OH	1:F:386:ILE:HG12	1.35	1.21
1:H:360:TYR:OH	1:H:386:ILE:HG12	1.35	1.21
1:I:4:ILE:HD11	1:I:497:PRO:CB	1.69	1.21
1:K:360:TYR:CZ	1:K:386:ILE:HG12	1.76	1.21
1:S:180:VAL:CG2	1:S:321:TYR:HD1	1.51	1.21
1:T:136:VAL:O	1:T:159:LEU:HD13	1.39	1.21
1:U:136:VAL:O	1:U:159:LEU:HD13	1.38	1.21
1:W:4:ILE:HD11	1:W:497:PRO:CB	1.70	1.21
1:C:136:VAL:O	1:C:159:LEU:HD13	1.39	1.21
1:O:136:VAL:O	1:O:159:LEU:HD13	1.38	1.21
1:B:373:GLN:O	1:B:382:GLU:HA	1.38	1.20
1:D:136:VAL:O	1:D:159:LEU:HD13	1.39	1.20
1:E:360:TYR:CZ	1:E:386:ILE:HG12	1.76	1.20
1:Q:4:ILE:HD11	1:Q:497:PRO:CB	1.69	1.20
1:U:360:TYR:OH	1:U:386:ILE:HG12	1.35	1.20
1:A:360:TYR:CZ	1:A:386:ILE:HG12	1.76	1.20
1:G:186:THR:CG2	1:G:290:PRO:CA	2.11	1.20
1:H:373:GLN:O	1:H:382:GLU:HA	1.38	1.20
1:I:78:GLU:OE2	1:T:39:SER:HB3	1.40	1.20
1:L:360:TYR:OH	1:L:386:ILE:HG12	1.35	1.20
1:M:136:VAL:O	1:M:159:LEU:HD13	1.38	1.20
1:N:4:ILE:HD11	1:N:497:PRO:CB	1.70	1.20
1:Q:186:THR:CG2	1:Q:290:PRO:CA	2.11	1.20
1:Q:360:TYR:OH	1:Q:386:ILE:HG12	1.35	1.20
1:Q:360:TYR:CZ	1:Q:386:ILE:HG12	1.76	1.20
1:S:4:ILE:HD11	1:S:497:PRO:CB	1.70	1.20
1:U:180:VAL:CG2	1:U:321:TYR:HD1	1.51	1.20
1:U:360:TYR:CZ	1:U:386:ILE:HG12	1.76	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:360:TYR:CZ	1:W:386:ILE:HG12	1.76	1.20
1:B:78:GLU:OE2	1:M:39:SER:HB3	1.38	1.20
1:H:136:VAL:O	1:H:159:LEU:HD13	1.38	1.20
1:D:360:TYR:OH	1:D:386:ILE:HG12	1.35	1.20
1:H:360:TYR:CZ	1:H:386:ILE:HG12	1.76	1.20
1:N:180:VAL:CG2	1:N:321:TYR:HD1	1.51	1.20
1:N:360:TYR:CZ	1:N:386:ILE:HG12	1.76	1.20
1:T:360:TYR:OH	1:T:386:ILE:HG12	1.35	1.20
1:W:136:VAL:O	1:W:159:LEU:HD13	1.39	1.20
1:W:162:ILE:HD11	1:W:432:LEU:HD13	1.21	1.20
1:E:136:VAL:O	1:E:159:LEU:HD13	1.38	1.20
1:E:360:TYR:OH	1:E:386:ILE:HG12	1.35	1.20
1:I:419:LEU:HD12	1:T:151:ASP:OD1	1.39	1.20
1:L:360:TYR:CZ	1:L:386:ILE:HG12	1.76	1.20
1:O:373:GLN:O	1:O:382:GLU:HA	1.38	1.20
1:D:373:GLN:O	1:D:382:GLU:HA	1.38	1.19
1:E:78:GLU:OE2	1:P:39:SER:HB3	1.41	1.19
1:E:162:ILE:HD11	1:E:432:LEU:HD13	1.21	1.19
1:F:373:GLN:O	1:F:382:GLU:HA	1.38	1.19
1:G:136:VAL:O	1:G:159:LEU:HD13	1.38	1.19
1:J:78:GLU:OE2	1:U:39:SER:HB3	1.42	1.19
1:R:360:TYR:CZ	1:R:386:ILE:HG12	1.76	1.19
1:S:186:THR:CG2	1:S:290:PRO:CA	2.11	1.19
1:B:4:ILE:HD11	1:B:497:PRO:CB	1.69	1.19
1:D:360:TYR:CZ	1:D:386:ILE:HG12	1.76	1.19
1:W:360:TYR:OH	1:W:386:ILE:HG12	1.35	1.19
1:A:31:LEU:HD23	1:A:469:TYR:HD1	1.03	1.19
1:F:319:MET:HE2	1:F:374:LEU:HD13	1.24	1.19
1:F:360:TYR:CZ	1:F:386:ILE:HG12	1.76	1.19
1:G:360:TYR:CZ	1:G:386:ILE:HG12	1.76	1.19
1:J:360:TYR:CZ	1:J:386:ILE:HG12	1.76	1.19
1:O:360:TYR:CZ	1:O:386:ILE:HG12	1.76	1.19
1:B:360:TYR:CZ	1:B:386:ILE:HG12	1.76	1.19
1:C:4:ILE:HD11	1:C:497:PRO:CB	1.70	1.19
1:F:136:VAL:O	1:F:159:LEU:HD13	1.38	1.19
1:H:4:ILE:HD11	1:H:497:PRO:CB	1.70	1.19
1:J:373:GLN:O	1:J:382:GLU:HA	1.38	1.19
1:P:360:TYR:CZ	1:P:386:ILE:HG12	1.76	1.19
1:T:360:TYR:CZ	1:T:386:ILE:HG12	1.76	1.19
1:N:373:GLN:O	1:N:382:GLU:HA	1.38	1.19
1:P:373:GLN:O	1:P:382:GLU:HA	1.38	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:4:ILE:CG1	1:Q:501:LEU:CD1	2.21	1.19
1:Q:162:ILE:HD11	1:Q:432:LEU:HD13	1.21	1.19
1:Q:319:MET:HE2	1:Q:374:LEU:HD13	1.24	1.19
1:R:31:LEU:HD23	1:R:469:TYR:HD1	1.03	1.19
1:F:78:GLU:OE2	1:Q:39:SER:HB3	1.41	1.18
1:S:360:TYR:CZ	1:S:386:ILE:HG12	1.76	1.18
1:W:319:MET:HE2	1:W:374:LEU:HD13	1.24	1.18
1:A:319:MET:HE2	1:A:374:LEU:HD13	1.24	1.18
1:C:360:TYR:CZ	1:C:386:ILE:HG12	1.76	1.18
1:G:4:ILE:CG1	1:G:501:LEU:CD1	2.21	1.18
1:I:360:TYR:CZ	1:I:386:ILE:HG12	1.76	1.18
1:C:78:GLU:OE2	1:N:39:SER:HB3	1.40	1.18
1:J:162:ILE:HD11	1:J:432:LEU:HD13	1.21	1.18
1:K:4:ILE:CG1	1:K:501:LEU:CD1	2.21	1.18
1:M:360:TYR:CZ	1:M:386:ILE:HG12	1.76	1.18
1:M:373:GLN:O	1:M:382:GLU:HA	1.38	1.18
1:T:31:LEU:HD23	1:T:469:TYR:HD1	1.03	1.18
1:A:4:ILE:CG1	1:A:501:LEU:CD1	2.21	1.18
1:B:4:ILE:CG1	1:B:501:LEU:CD1	2.21	1.18
1:D:31:LEU:HD23	1:D:469:TYR:HD1	1.03	1.18
1:F:186:THR:CG2	1:F:290:PRO:CA	2.11	1.18
1:G:340:LYS:HD3	1:G:373:GLN:NE2	1.59	1.18
1:K:419:LEU:HD12	1:W:151:ASP:OD1	1.39	1.18
1:L:340:LYS:HD3	1:L:373:GLN:NE2	1.59	1.18
1:M:4:ILE:CG1	1:M:501:LEU:CD1	2.21	1.18
1:S:340:LYS:HD3	1:S:373:GLN:NE2	1.59	1.18
1:F:419:LEU:HD12	1:Q:151:ASP:OD1	1.38	1.18
1:P:340:LYS:HD3	1:P:373:GLN:NE2	1.59	1.18
1:U:31:LEU:HD23	1:U:469:TYR:HD1	1.03	1.18
1:C:31:LEU:HD23	1:C:469:TYR:HD1	1.03	1.17
1:E:340:LYS:HD3	1:E:373:GLN:NE2	1.59	1.17
1:I:373:GLN:O	1:I:382:GLU:HA	1.38	1.17
1:K:186:THR:CG2	1:K:290:PRO:CA	2.11	1.17
1:L:4:ILE:HD11	1:L:497:PRO:CB	1.69	1.17
1:S:373:GLN:O	1:S:382:GLU:HA	1.38	1.17
1:U:340:LYS:HD3	1:U:373:GLN:NE2	1.59	1.17
1:W:4:ILE:CG1	1:W:501:LEU:CD1	2.21	1.17
1:B:31:LEU:HD23	1:B:469:TYR:HD1	1.03	1.17
1:C:340:LYS:HD3	1:C:373:GLN:NE2	1.59	1.17
1:H:186:THR:CG2	1:H:290:PRO:CA	2.11	1.17
1:S:178:TYR:HE2	1:S:378:ASP:OD1	1.27	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:373:GLN:O	1:T:382:GLU:HA	1.38	1.17
1:E:145:ILE:O	1:E:154:THR:HA	1.45	1.17
1:H:340:LYS:HD3	1:H:373:GLN:NE2	1.59	1.17
1:K:340:LYS:HD3	1:K:373:GLN:NE2	1.59	1.17
1:M:4:ILE:HD11	1:M:497:PRO:CB	1.69	1.17
1:N:136:VAL:O	1:N:159:LEU:HD13	1.38	1.17
1:N:340:LYS:HD3	1:N:373:GLN:NE2	1.59	1.17
1:Q:340:LYS:HD3	1:Q:373:GLN:NE2	1.59	1.17
1:R:4:ILE:CG1	1:R:501:LEU:CD1	2.21	1.17
1:R:178:TYR:HE2	1:R:378:ASP:OD1	1.27	1.17
1:S:31:LEU:HD23	1:S:469:TYR:HD1	1.03	1.17
1:B:340:LYS:HD3	1:B:373:GLN:NE2	1.59	1.17
1:C:186:THR:CG2	1:C:290:PRO:CA	2.11	1.17
1:D:78:GLU:OE2	1:O:39:SER:HB3	1.41	1.17
1:L:145:ILE:O	1:L:154:THR:HA	1.45	1.17
1:N:186:THR:CG2	1:N:290:PRO:CA	2.11	1.17
1:O:386:ILE:HD13	1:O:401:PHE:CE2	1.80	1.17
1:U:386:ILE:HD13	1:U:401:PHE:CE2	1.80	1.17
1:W:145:ILE:O	1:W:154:THR:HA	1.45	1.17
1:W:386:ILE:HD13	1:W:401:PHE:CE2	1.80	1.17
1:E:501:LEU:CB	1:E:505:ARG:HH12	1.58	1.17
1:J:4:ILE:HG12	1:J:501:LEU:HD11	1.17	1.17
1:J:386:ILE:HD13	1:J:401:PHE:CE2	1.80	1.17
1:J:501:LEU:CB	1:J:505:ARG:HH12	1.58	1.17
1:K:162:ILE:HD11	1:K:432:LEU:HD13	1.20	1.17
1:L:186:THR:CG2	1:L:290:PRO:CA	2.11	1.17
1:P:386:ILE:HD13	1:P:401:PHE:CE2	1.80	1.17
1:Q:145:ILE:O	1:Q:154:THR:HA	1.45	1.17
1:R:145:ILE:O	1:R:154:THR:HA	1.45	1.17
1:T:386:ILE:HD13	1:T:401:PHE:CE2	1.80	1.17
1:A:78:GLU:OE2	1:L:39:SER:HB3	1.39	1.16
1:A:340:LYS:HD3	1:A:373:GLN:NE2	1.59	1.16
1:H:4:ILE:HG12	1:H:501:LEU:HD11	1.17	1.16
1:I:386:ILE:HD13	1:I:401:PHE:CE2	1.80	1.16
1:K:31:LEU:HD23	1:K:469:TYR:HD1	1.03	1.16
1:K:145:ILE:O	1:K:154:THR:HA	1.45	1.16
1:K:319:MET:HE2	1:K:374:LEU:HD13	1.24	1.16
1:L:4:ILE:CG1	1:L:501:LEU:CD1	2.21	1.16
1:O:162:ILE:HD11	1:O:432:LEU:HD13	1.21	1.16
1:O:501:LEU:CB	1:O:505:ARG:HH12	1.58	1.16
1:R:501:LEU:CB	1:R:505:ARG:HH12	1.58	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:501:LEU:CB	1:U:505:ARG:HH12	1.58	1.16
1:W:186:THR:CG2	1:W:290:PRO:CA	2.11	1.16
1:D:4:ILE:CG1	1:D:501:LEU:CD1	2.21	1.16
1:I:340:LYS:HD3	1:I:373:GLN:NE2	1.59	1.16
1:J:340:LYS:HD3	1:J:373:GLN:NE2	1.59	1.16
1:L:501:LEU:CB	1:L:505:ARG:HH12	1.58	1.16
1:M:178:TYR:HE2	1:M:378:ASP:OD1	1.27	1.16
1:N:386:ILE:HD13	1:N:401:PHE:CE2	1.80	1.16
1:Q:386:ILE:HD13	1:Q:401:PHE:CE2	1.80	1.16
1:R:4:ILE:HD11	1:R:497:PRO:CB	1.69	1.16
1:T:501:LEU:CB	1:T:505:ARG:HH12	1.58	1.16
1:U:145:ILE:O	1:U:154:THR:HA	1.45	1.16
1:A:145:ILE:O	1:A:154:THR:HA	1.45	1.16
1:B:4:ILE:HG12	1:B:501:LEU:HD11	1.16	1.16
1:B:145:ILE:O	1:B:154:THR:HA	1.45	1.16
1:B:501:LEU:CB	1:B:505:ARG:HH12	1.58	1.16
1:C:4:ILE:HG12	1:C:501:LEU:HD11	1.17	1.16
1:D:4:ILE:HG12	1:D:501:LEU:HD11	1.17	1.16
1:D:386:ILE:HD13	1:D:401:PHE:CE2	1.80	1.16
1:F:162:ILE:HD11	1:F:432:LEU:HD13	1.21	1.16
1:G:501:LEU:CB	1:G:505:ARG:HH12	1.58	1.16
1:H:501:LEU:CB	1:H:505:ARG:HH12	1.58	1.16
1:J:31:LEU:HD23	1:J:469:TYR:HD1	1.03	1.16
1:K:386:ILE:HD13	1:K:401:PHE:CE2	1.80	1.16
1:L:162:ILE:HD11	1:L:432:LEU:HD13	1.21	1.16
1:M:186:THR:CG2	1:M:290:PRO:CA	2.11	1.16
1:M:340:LYS:HD3	1:M:373:GLN:NE2	1.59	1.16
1:O:145:ILE:O	1:O:154:THR:HA	1.45	1.16
1:R:386:ILE:HD13	1:R:401:PHE:CE2	1.80	1.16
1:S:4:ILE:CG1	1:S:501:LEU:CD1	2.21	1.16
1:S:386:ILE:HD13	1:S:401:PHE:CE2	1.80	1.16
1:A:386:ILE:HD13	1:A:401:PHE:CE2	1.80	1.16
1:C:501:LEU:CB	1:C:505:ARG:HH12	1.58	1.16
1:E:4:ILE:CG1	1:E:501:LEU:CD1	2.21	1.16
1:I:4:ILE:HG12	1:I:501:LEU:HD11	1.17	1.16
1:L:178:TYR:HE2	1:L:378:ASP:OD1	1.27	1.16
1:L:319:MET:HE2	1:L:374:LEU:HD13	1.24	1.16
1:M:501:LEU:CB	1:M:505:ARG:HH12	1.58	1.16
1:O:4:ILE:HG12	1:O:501:LEU:HD11	1.17	1.16
1:P:145:ILE:O	1:P:154:THR:HA	1.45	1.16
1:P:501:LEU:CB	1:P:505:ARG:HH12	1.58	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:501:LEU:CB	1:Q:505:ARG:HH12	1.58	1.16
1:R:340:LYS:HD3	1:R:373:GLN:NE2	1.59	1.16
1:E:4:ILE:HG12	1:E:501:LEU:HD11	1.17	1.16
1:E:386:ILE:HD13	1:E:401:PHE:CE2	1.80	1.16
1:F:340:LYS:HD3	1:F:373:GLN:NE2	1.59	1.16
1:G:4:ILE:HD11	1:G:497:PRO:CB	1.70	1.16
1:N:178:TYR:HE2	1:N:378:ASP:OD1	1.27	1.16
1:P:162:ILE:HD11	1:P:432:LEU:HD13	1.21	1.16
1:T:178:TYR:HE2	1:T:378:ASP:OD1	1.27	1.16
1:W:340:LYS:HD3	1:W:373:GLN:NE2	1.59	1.16
1:W:501:LEU:CB	1:W:505:ARG:HH12	1.58	1.16
1:C:4:ILE:CG1	1:C:501:LEU:CD1	2.21	1.15
1:C:373:GLN:O	1:C:382:GLU:HA	1.38	1.15
1:D:162:ILE:HD11	1:D:432:LEU:HD13	1.20	1.15
1:F:145:ILE:O	1:F:154:THR:HA	1.45	1.15
1:G:178:TYR:HE2	1:G:378:ASP:OD1	1.27	1.15
1:K:501:LEU:CB	1:K:505:ARG:HH12	1.58	1.15
1:L:386:ILE:HD13	1:L:401:PHE:CE2	1.80	1.15
1:M:386:ILE:HD13	1:M:401:PHE:CE2	1.80	1.15
1:Q:31:LEU:HD23	1:Q:469:TYR:HD1	1.03	1.15
1:U:4:ILE:CG1	1:U:501:LEU:CD1	2.21	1.15
1:U:162:ILE:HD11	1:U:432:LEU:HD13	1.21	1.15
1:C:386:ILE:HD13	1:C:401:PHE:CE2	1.80	1.15
1:D:340:LYS:HD3	1:D:373:GLN:NE2	1.59	1.15
1:E:419:LEU:HD12	1:P:151:ASP:OD1	1.39	1.15
1:H:386:ILE:HD13	1:H:401:PHE:CE2	1.80	1.15
1:O:340:LYS:HD3	1:O:373:GLN:NE2	1.59	1.15
1:Q:178:TYR:HE2	1:Q:378:ASP:OD1	1.27	1.15
1:A:162:ILE:HD11	1:A:432:LEU:HD13	1.21	1.15
1:D:501:LEU:CB	1:D:505:ARG:HH12	1.58	1.15
1:F:4:ILE:CG1	1:F:501:LEU:CD1	2.21	1.15
1:F:386:ILE:HD13	1:F:401:PHE:CE2	1.80	1.15
1:H:4:ILE:CG1	1:H:501:LEU:CD1	2.21	1.15
1:H:78:GLU:OE2	1:S:39:SER:HB3	1.41	1.15
1:H:145:ILE:O	1:H:154:THR:HA	1.45	1.15
1:H:178:TYR:HE2	1:H:378:ASP:OD1	1.27	1.15
1:J:4:ILE:CG1	1:J:501:LEU:CD1	2.21	1.15
1:J:419:LEU:HD12	1:U:151:ASP:OD1	1.38	1.15
1:L:31:LEU:HD23	1:L:469:TYR:HD1	1.03	1.15
1:M:4:ILE:HG12	1:M:501:LEU:HD11	1.17	1.15
1:U:4:ILE:HG12	1:U:501:LEU:HD11	1.16	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:386:ILE:HD13	1:B:401:PHE:CE2	1.80	1.15
1:C:419:LEU:HD12	1:N:151:ASP:OD1	1.41	1.15
1:F:501:LEU:CB	1:F:505:ARG:HH12	1.58	1.15
1:G:386:ILE:HD13	1:G:401:PHE:CE2	1.80	1.15
1:K:78:GLU:OE2	1:W:39:SER:HB3	1.42	1.15
1:S:31:LEU:HD23	1:S:469:TYR:CD1	1.81	1.15
1:U:31:LEU:HD23	1:U:469:TYR:CD1	1.81	1.15
1:A:31:LEU:HD23	1:A:469:TYR:CD1	1.81	1.15
1:A:501:LEU:CB	1:A:505:ARG:HH12	1.58	1.15
1:D:145:ILE:O	1:D:154:THR:HA	1.45	1.15
1:F:31:LEU:HD23	1:F:469:TYR:CD1	1.81	1.15
1:F:178:TYR:HE2	1:F:378:ASP:OD1	1.27	1.15
1:G:31:LEU:HD23	1:G:469:TYR:HD1	1.03	1.15
1:I:4:ILE:CG1	1:I:501:LEU:CD1	2.21	1.15
1:K:31:LEU:HD23	1:K:469:TYR:CD1	1.81	1.15
1:P:4:ILE:CG1	1:P:501:LEU:CD1	2.21	1.15
1:P:4:ILE:HG12	1:P:501:LEU:HD11	1.17	1.15
1:P:31:LEU:HD23	1:P:469:TYR:CD1	1.81	1.15
1:S:373:GLN:HB2	1:S:383:VAL:HG23	1.27	1.15
1:T:31:LEU:HD23	1:T:469:TYR:CD1	1.81	1.15
1:B:31:LEU:HD23	1:B:469:TYR:CD1	1.81	1.14
1:C:31:LEU:HD23	1:C:469:TYR:CD1	1.81	1.14
1:G:78:GLU:OE2	1:R:39:SER:HB3	1.42	1.14
1:G:145:ILE:O	1:G:154:THR:HA	1.45	1.14
1:I:145:ILE:O	1:I:154:THR:HA	1.45	1.14
1:I:341:TYR:HB3	1:I:374:LEU:HD12	1.28	1.14
1:I:501:LEU:CB	1:I:505:ARG:HH12	1.58	1.14
1:N:4:ILE:CG1	1:N:501:LEU:CD1	2.21	1.14
1:N:4:ILE:HG12	1:N:501:LEU:HD11	1.17	1.14
1:N:501:LEU:CB	1:N:505:ARG:HH12	1.58	1.14
1:O:31:LEU:HD23	1:O:469:TYR:CD1	1.81	1.14
1:P:186:THR:CG2	1:P:290:PRO:CA	2.11	1.14
1:R:31:LEU:HD23	1:R:469:TYR:CD1	1.81	1.14
1:S:145:ILE:O	1:S:154:THR:HA	1.45	1.14
1:S:501:LEU:CB	1:S:505:ARG:HH12	1.58	1.14
1:T:340:LYS:HD3	1:T:373:GLN:NE2	1.59	1.14
1:C:178:TYR:HE2	1:C:378:ASP:OD1	1.27	1.14
1:D:31:LEU:HD23	1:D:469:TYR:CD1	1.81	1.14
1:D:178:TYR:HE2	1:D:378:ASP:OD1	1.27	1.14
1:D:341:TYR:HB3	1:D:374:LEU:HD12	1.28	1.14
1:E:31:LEU:HD23	1:E:469:TYR:CD1	1.81	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:31:LEU:HD23	1:J:469:TYR:CD1	1.81	1.14
1:K:178:TYR:HE2	1:K:378:ASP:OD1	1.27	1.14
1:M:31:LEU:HD23	1:M:469:TYR:CD1	1.81	1.14
1:N:31:LEU:HD23	1:N:469:TYR:CD1	1.81	1.14
1:T:341:TYR:HB3	1:T:374:LEU:HD12	1.28	1.14
1:W:31:LEU:HD23	1:W:469:TYR:CD1	1.81	1.14
1:A:419:LEU:HD12	1:L:151:ASP:OD1	1.37	1.14
1:E:178:TYR:HE2	1:E:378:ASP:OD1	1.27	1.14
1:E:186:THR:CG2	1:E:290:PRO:CA	2.11	1.14
1:G:31:LEU:HD23	1:G:469:TYR:CD1	1.81	1.14
1:I:31:LEU:HD23	1:I:469:TYR:HD1	1.03	1.14
1:I:31:LEU:HD23	1:I:469:TYR:CD1	1.81	1.14
1:L:31:LEU:HD23	1:L:469:TYR:CD1	1.81	1.14
1:Q:31:LEU:HD23	1:Q:469:TYR:CD1	1.81	1.14
1:S:4:ILE:HG12	1:S:501:LEU:HD11	1.17	1.14
1:T:4:ILE:CG1	1:T:501:LEU:CD1	2.21	1.14
1:T:4:ILE:HG12	1:T:501:LEU:HD11	1.16	1.14
1:T:186:THR:CG2	1:T:290:PRO:CA	2.11	1.14
1:A:178:TYR:HE2	1:A:378:ASP:OD1	1.27	1.14
1:H:31:LEU:HD23	1:H:469:TYR:CD1	1.81	1.14
1:N:31:LEU:HD23	1:N:469:TYR:HD1	1.03	1.14
1:B:178:TYR:HE2	1:B:378:ASP:OD1	1.27	1.14
1:C:373:GLN:HB2	1:C:383:VAL:HG23	1.27	1.14
1:M:145:ILE:O	1:M:154:THR:HA	1.45	1.14
1:N:145:ILE:O	1:N:154:THR:HA	1.45	1.14
1:O:4:ILE:CG1	1:O:501:LEU:CD1	2.21	1.14
1:T:162:ILE:HD11	1:T:432:LEU:HD13	1.21	1.14
1:H:31:LEU:HD23	1:H:469:TYR:HD1	1.03	1.13
1:J:178:TYR:HE2	1:J:378:ASP:OD1	1.27	1.13
1:L:4:ILE:HG12	1:L:501:LEU:HD11	1.16	1.13
1:M:31:LEU:HD23	1:M:469:TYR:HD1	1.03	1.13
1:N:341:TYR:HB3	1:N:374:LEU:HD12	1.28	1.13
1:O:31:LEU:HD23	1:O:469:TYR:HD1	1.03	1.13
1:W:31:LEU:HD23	1:W:469:TYR:HD1	1.03	1.13
1:G:162:ILE:HD11	1:G:432:LEU:HD13	1.21	1.13
1:J:145:ILE:O	1:J:154:THR:HA	1.45	1.13
1:O:341:TYR:HB3	1:O:374:LEU:HD12	1.28	1.13
1:P:319:MET:HE2	1:P:374:LEU:HD13	1.24	1.13
1:W:4:ILE:HG12	1:W:501:LEU:HD11	1.17	1.13
1:E:4:ILE:HG13	1:E:501:LEU:HD12	1.13	1.13
1:I:178:TYR:HE2	1:I:378:ASP:OD1	1.27	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:186:THR:CG2	1:I:290:PRO:CA	2.11	1.13
1:I:373:GLN:HB2	1:I:383:VAL:HG23	1.27	1.13
1:M:373:GLN:HB2	1:M:383:VAL:HG23	1.27	1.13
1:N:81:LEU:HD11	1:N:432:LEU:HD22	1.30	1.13
1:U:180:VAL:HG22	1:U:321:TYR:HD1	1.00	1.13
1:D:186:THR:CG2	1:D:290:PRO:CA	2.11	1.13
1:J:186:THR:CG2	1:J:290:PRO:CA	2.11	1.13
1:P:178:TYR:HE2	1:P:378:ASP:OD1	1.27	1.13
1:R:186:THR:CG2	1:R:290:PRO:CA	2.11	1.13
1:W:178:TYR:HE2	1:W:378:ASP:OD1	1.27	1.13
1:G:319:MET:HE2	1:G:374:LEU:HD13	1.24	1.13
1:I:81:LEU:HD11	1:I:432:LEU:HD22	1.30	1.12
1:I:162:ILE:HD11	1:I:432:LEU:HD13	1.21	1.13
1:B:373:GLN:HB2	1:B:383:VAL:HG23	1.27	1.12
1:C:145:ILE:O	1:C:154:THR:HA	1.45	1.12
1:K:4:ILE:HG13	1:K:501:LEU:HD12	1.13	1.12
1:O:178:TYR:HE2	1:O:378:ASP:OD1	1.27	1.12
1:S:81:LEU:HD11	1:S:432:LEU:HD22	1.30	1.12
1:U:186:THR:CG2	1:U:290:PRO:CA	2.11	1.12
1:A:4:ILE:HG13	1:A:501:LEU:HD12	1.13	1.12
1:C:341:TYR:HB3	1:C:374:LEU:HD12	1.28	1.12
1:E:31:LEU:HD23	1:E:469:TYR:HD1	1.03	1.12
1:F:4:ILE:HG13	1:F:501:LEU:HD12	1.13	1.12
1:G:419:LEU:HD12	1:R:151:ASP:OD1	1.40	1.12
1:H:419:LEU:HD12	1:S:151:ASP:OD1	1.37	1.12
1:J:341:TYR:HB3	1:J:374:LEU:HD12	1.28	1.12
1:T:145:ILE:O	1:T:154:THR:HA	1.45	1.12
1:C:318:LYS:CE	1:C:330:GLU:OE2	1.98	1.12
1:M:318:LYS:CE	1:M:330:GLU:OE2	1.98	1.12
1:R:162:ILE:HD11	1:R:432:LEU:HD13	1.21	1.12
1:S:341:TYR:HB3	1:S:374:LEU:HD12	1.28	1.12
1:B:4:ILE:HG13	1:B:501:LEU:HD12	1.13	1.12
1:F:4:ILE:HG12	1:F:501:LEU:HD11	1.16	1.12
1:G:318:LYS:CE	1:G:330:GLU:OE2	1.98	1.12
1:I:318:LYS:CE	1:I:330:GLU:OE2	1.98	1.12
1:J:4:ILE:HG13	1:J:501:LEU:HD12	1.13	1.12
1:P:180:VAL:HG22	1:P:321:TYR:HD1	1.00	1.12
1:S:318:LYS:CE	1:S:330:GLU:OE2	1.98	1.12
1:U:341:TYR:HB3	1:U:374:LEU:HD12	1.28	1.12
1:A:4:ILE:HG12	1:A:501:LEU:HD11	1.17	1.11
1:C:4:ILE:HG13	1:C:501:LEU:HD12	1.13	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4:ILE:HG13	1:D:501:LEU:HD12	1.13	1.11
1:O:186:THR:CG2	1:O:290:PRO:CA	2.11	1.11
1:T:81:LEU:HD11	1:T:432:LEU:HD22	1.30	1.11
1:A:318:LYS:CE	1:A:330:GLU:OE2	1.98	1.11
1:B:81:LEU:HD11	1:B:432:LEU:HD22	1.30	1.11
1:C:306:VAL:HG12	1:C:307:ASP:H	1.13	1.11
1:D:81:LEU:HD11	1:D:432:LEU:HD22	1.30	1.11
1:R:4:ILE:HG12	1:R:501:LEU:HD11	1.16	1.11
1:U:178:TYR:HE2	1:U:378:ASP:OD1	1.27	1.11
1:D:419:LEU:HD12	1:O:151:ASP:OD1	1.40	1.11
1:H:81:LEU:HD11	1:H:432:LEU:HD22	1.30	1.11
1:H:314:ALA:HB2	1:H:337:ALA:HA	1.31	1.11
1:J:180:VAL:HG22	1:J:321:TYR:HD1	1.00	1.11
1:O:318:LYS:CE	1:O:330:GLU:OE2	1.98	1.11
1:P:4:ILE:HG13	1:P:501:LEU:HD12	1.13	1.11
1:R:318:LYS:CE	1:R:330:GLU:OE2	1.98	1.11
1:B:162:ILE:HD11	1:B:432:LEU:HD13	1.21	1.11
1:C:314:ALA:HB2	1:C:337:ALA:HA	1.31	1.11
1:F:31:LEU:HD23	1:F:469:TYR:HD1	1.03	1.11
1:O:180:VAL:HG22	1:O:321:TYR:HD1	1.00	1.11
1:D:318:LYS:CE	1:D:330:GLU:OE2	1.98	1.11
1:E:364:ASP:CG	1:E:402:LYS:HZ3	1.58	1.11
1:G:4:ILE:HG13	1:G:501:LEU:HD12	1.13	1.11
1:I:4:ILE:HD11	1:I:497:PRO:HB3	1.26	1.11
1:L:318:LYS:CE	1:L:330:GLU:OE2	1.98	1.11
1:N:162:ILE:HD11	1:N:432:LEU:HD13	1.21	1.11
1:B:180:VAL:HG22	1:B:321:TYR:HD1	1.00	1.10
1:B:318:LYS:CE	1:B:330:GLU:OE2	1.98	1.10
1:C:81:LEU:HD11	1:C:432:LEU:HD22	1.30	1.10
1:H:35:LEU:HD21	1:S:5:ASN:ND2	1.66	1.10
1:T:373:GLN:HB2	1:T:383:VAL:HG23	1.27	1.10
1:U:319:MET:HE2	1:U:374:LEU:HD13	1.24	1.10
1:A:180:VAL:HG22	1:A:321:TYR:HD1	1.00	1.10
1:C:180:VAL:HG22	1:C:321:TYR:HD1	1.00	1.10
1:E:180:VAL:HG22	1:E:321:TYR:HD1	1.00	1.10
1:I:4:ILE:HG13	1:I:501:LEU:HD12	1.13	1.10
1:K:4:ILE:HG12	1:K:501:LEU:HD11	1.16	1.10
1:M:314:ALA:HB2	1:M:337:ALA:HA	1.31	1.10
1:N:318:LYS:CE	1:N:330:GLU:OE2	1.98	1.10
1:O:81:LEU:HD11	1:O:432:LEU:HD22	1.30	1.10
1:P:373:GLN:HB2	1:P:383:VAL:HG23	1.27	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:318:LYS:CE	1:T:330:GLU:OE2	1.98	1.10
1:U:318:LYS:CE	1:U:330:GLU:OE2	1.98	1.10
1:C:162:ILE:HD11	1:C:432:LEU:HD13	1.21	1.10
1:F:318:LYS:CE	1:F:330:GLU:OE2	1.98	1.10
1:H:318:LYS:CE	1:H:330:GLU:OE2	1.98	1.10
1:H:341:TYR:HB3	1:H:374:LEU:HD12	1.28	1.10
1:I:306:VAL:HG12	1:I:307:ASP:H	1.13	1.10
1:J:318:LYS:CE	1:J:330:GLU:OE2	1.98	1.10
1:P:341:TYR:HB3	1:P:374:LEU:HD12	1.28	1.10
1:T:180:VAL:HG22	1:T:321:TYR:HD1	1.00	1.10
1:W:318:LYS:CE	1:W:330:GLU:OE2	1.98	1.10
1:W:373:GLN:HB2	1:W:383:VAL:HG23	1.27	1.10
1:B:319:MET:HE2	1:B:374:LEU:HD13	1.24	1.10
1:E:319:MET:HE2	1:E:374:LEU:HD13	1.24	1.10
1:F:373:GLN:HB2	1:F:383:VAL:HG23	1.27	1.10
1:H:4:ILE:HG13	1:H:501:LEU:HD12	1.13	1.10
1:H:373:GLN:HB2	1:H:383:VAL:HG23	1.27	1.10
1:L:4:ILE:HG13	1:L:501:LEU:HD12	1.13	1.10
1:M:81:LEU:HD11	1:M:432:LEU:HD22	1.30	1.10
1:Q:4:ILE:HG13	1:Q:501:LEU:HD12	1.13	1.10
1:S:162:ILE:HD11	1:S:432:LEU:HD13	1.21	1.10
1:E:341:TYR:HB3	1:E:374:LEU:HD12	1.28	1.10
1:P:318:LYS:CE	1:P:330:GLU:OE2	1.98	1.10
1:Q:318:LYS:CE	1:Q:330:GLU:OE2	1.98	1.10
1:R:306:VAL:HG12	1:R:307:ASP:H	1.13	1.10
1:B:314:ALA:HB2	1:B:337:ALA:HA	1.31	1.09
1:C:321:TYR:CD2	1:C:380:LYS:HE3	1.87	1.09
1:F:321:TYR:CD2	1:F:380:LYS:HE3	1.87	1.09
1:I:321:TYR:CD2	1:I:380:LYS:HE3	1.87	1.09
1:K:180:VAL:HG22	1:K:321:TYR:HD1	1.00	1.09
1:M:162:ILE:HD11	1:M:432:LEU:HD13	1.21	1.09
1:M:321:TYR:CD2	1:M:380:LYS:HE3	1.87	1.09
1:E:321:TYR:CD2	1:E:380:LYS:HE3	1.87	1.09
1:G:81:LEU:HD11	1:G:432:LEU:HD22	1.30	1.09
1:G:321:TYR:CD2	1:G:380:LYS:HE3	1.87	1.09
1:H:162:ILE:HD11	1:H:432:LEU:HD13	1.21	1.09
1:O:4:ILE:HG13	1:O:501:LEU:HD12	1.13	1.09
1:O:321:TYR:CD2	1:O:380:LYS:HE3	1.87	1.09
1:P:31:LEU:HD23	1:P:469:TYR:HD1	1.03	1.09
1:R:319:MET:HE2	1:R:374:LEU:HD13	1.24	1.09
1:U:321:TYR:CD2	1:U:380:LYS:HE3	1.87	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:341:TYR:HB3	1:B:374:LEU:HD12	1.28	1.09
1:D:321:TYR:CE2	1:D:380:LYS:HG2	1.88	1.09
1:E:4:ILE:HD11	1:E:497:PRO:HB3	1.26	1.09
1:F:321:TYR:CE2	1:F:380:LYS:HG2	1.88	1.09
1:K:318:LYS:CE	1:K:330:GLU:OE2	1.98	1.09
1:K:321:TYR:CE2	1:K:380:LYS:HG2	1.88	1.09
1:L:321:TYR:CD2	1:L:380:LYS:HE3	1.87	1.09
1:U:321:TYR:CE2	1:U:380:LYS:HG2	1.88	1.09
1:W:4:ILE:HG13	1:W:501:LEU:HD12	1.13	1.09
1:W:321:TYR:CD2	1:W:380:LYS:HE3	1.87	1.09
1:A:321:TYR:CE2	1:A:380:LYS:HG2	1.88	1.09
1:E:178:TYR:CE2	1:E:378:ASP:OD1	2.06	1.09
1:F:341:TYR:HB3	1:F:374:LEU:HD12	1.28	1.09
1:H:4:ILE:HD11	1:H:497:PRO:HB3	1.26	1.09
1:N:306:VAL:HG12	1:N:307:ASP:H	1.13	1.09
1:N:314:ALA:HB2	1:N:337:ALA:HA	1.31	1.09
1:P:321:TYR:CE2	1:P:380:LYS:HG2	1.88	1.09
1:U:4:ILE:HG13	1:U:501:LEU:HD12	1.13	1.09
1:W:321:TYR:CE2	1:W:380:LYS:HG2	1.88	1.09
1:E:306:VAL:HG12	1:E:307:ASP:H	1.13	1.09
1:H:306:VAL:HG12	1:H:307:ASP:H	1.13	1.09
1:I:314:ALA:HB2	1:I:337:ALA:HA	1.31	1.09
1:I:319:MET:HE2	1:I:374:LEU:HD13	1.24	1.09
1:I:321:TYR:CE2	1:I:380:LYS:HG2	1.88	1.09
1:K:178:TYR:CE2	1:K:378:ASP:OD1	2.05	1.09
1:M:341:TYR:HB3	1:M:374:LEU:HD12	1.28	1.09
1:N:319:MET:HE2	1:N:374:LEU:HD13	1.24	1.09
1:N:321:TYR:CD2	1:N:380:LYS:HE3	1.87	1.09
1:O:373:GLN:HB2	1:O:383:VAL:HG23	1.27	1.09
1:Q:4:ILE:HG12	1:Q:501:LEU:HD11	1.16	1.09
1:Q:321:TYR:CD2	1:Q:380:LYS:HE3	1.87	1.09
1:R:81:LEU:HD11	1:R:432:LEU:HD22	1.30	1.09
1:S:314:ALA:HB2	1:S:337:ALA:HA	1.31	1.09
1:B:321:TYR:CD2	1:B:380:LYS:HE3	1.87	1.08
1:E:318:LYS:CE	1:E:330:GLU:OE2	1.98	1.08
1:G:314:ALA:HB2	1:G:337:ALA:HA	1.31	1.08
1:H:180:VAL:HG22	1:H:321:TYR:HD1	1.00	1.08
1:K:35:LEU:HD21	1:W:5:ASN:ND2	1.68	1.08
1:P:321:TYR:CD2	1:P:380:LYS:HE3	1.87	1.08
1:Q:321:TYR:CE2	1:Q:380:LYS:HG2	1.88	1.08
1:T:321:TYR:CE2	1:T:380:LYS:HG2	1.88	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:319:MET:HE2	1:C:374:LEU:HD13	1.24	1.08
1:H:321:TYR:CD2	1:H:380:LYS:HE3	1.87	1.08
1:K:314:ALA:HB2	1:K:337:ALA:HA	1.31	1.08
1:N:4:ILE:HG13	1:N:501:LEU:HD12	1.13	1.08
1:R:321:TYR:CE2	1:R:380:LYS:HG2	1.88	1.08
1:S:321:TYR:CD2	1:S:380:LYS:HE3	1.87	1.08
1:W:306:VAL:HG12	1:W:307:ASP:H	1.13	1.08
1:A:321:TYR:CD2	1:A:380:LYS:HE3	1.87	1.08
1:E:314:ALA:HB2	1:E:337:ALA:HA	1.31	1.08
1:M:4:ILE:HG13	1:M:501:LEU:HD12	1.13	1.08
1:M:321:TYR:CE2	1:M:380:LYS:HG2	1.88	1.08
1:O:321:TYR:CE2	1:O:380:LYS:HG2	1.88	1.08
1:R:314:ALA:HB2	1:R:337:ALA:HA	1.31	1.08
1:S:4:ILE:HG13	1:S:501:LEU:HD12	1.13	1.08
1:T:319:MET:HE2	1:T:374:LEU:HD13	1.24	1.08
1:U:81:LEU:HD11	1:U:432:LEU:HD22	1.30	1.08
1:B:306:VAL:HG12	1:B:307:ASP:H	1.13	1.08
1:B:321:TYR:CE2	1:B:380:LYS:HG2	1.88	1.08
1:G:4:ILE:HG12	1:G:501:LEU:HD11	1.17	1.08
1:G:341:TYR:HB3	1:G:374:LEU:HD12	1.28	1.08
1:G:373:GLN:HB2	1:G:383:VAL:HG23	1.27	1.08
1:J:81:LEU:HD11	1:J:432:LEU:HD22	1.30	1.08
1:K:321:TYR:CD2	1:K:380:LYS:HE3	1.87	1.08
1:L:373:GLN:HB2	1:L:383:VAL:HG23	1.27	1.08
1:N:321:TYR:CE2	1:N:380:LYS:HG2	1.88	1.08
1:N:373:GLN:HB2	1:N:383:VAL:HG23	1.27	1.08
1:P:178:TYR:CE2	1:P:378:ASP:OD1	2.05	1.08
1:R:373:GLN:HB2	1:R:383:VAL:HG23	1.27	1.08
1:T:306:VAL:HG12	1:T:307:ASP:H	1.13	1.08
1:W:4:ILE:HD11	1:W:497:PRO:HB3	1.26	1.08
1:D:321:TYR:CD2	1:D:380:LYS:HE3	1.87	1.08
1:E:373:GLN:HB2	1:E:383:VAL:HG23	1.27	1.08
1:L:4:ILE:HD11	1:L:497:PRO:HB3	1.26	1.08
1:N:301:LEU:HD21	1:N:337:ALA:HB2	1.36	1.08
1:O:4:ILE:HD11	1:O:497:PRO:HB3	1.26	1.08
1:O:306:VAL:HG12	1:O:307:ASP:H	1.13	1.08
1:P:306:VAL:HG12	1:P:307:ASP:H	1.13	1.08
1:P:314:ALA:HB2	1:P:337:ALA:HA	1.31	1.08
1:R:301:LEU:HD21	1:R:337:ALA:HB2	1.36	1.08
1:R:321:TYR:CD2	1:R:380:LYS:HE3	1.87	1.08
1:U:178:TYR:CE2	1:U:378:ASP:OD1	2.05	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:178:TYR:CE2	1:W:378:ASP:OD1	2.05	1.08
1:D:306:VAL:HG12	1:D:307:ASP:H	1.13	1.07
1:E:321:TYR:CE2	1:E:380:LYS:HG2	1.88	1.07
1:F:314:ALA:HB2	1:F:337:ALA:HA	1.31	1.07
1:H:321:TYR:CE2	1:H:380:LYS:HG2	1.88	1.07
1:I:35:LEU:HD21	1:T:5:ASN:ND2	1.69	1.07
1:J:319:MET:HE2	1:J:374:LEU:HD13	1.24	1.07
1:J:321:TYR:CD2	1:J:380:LYS:HE3	1.87	1.07
1:J:321:TYR:CE2	1:J:380:LYS:HG2	1.88	1.07
1:K:81:LEU:HD11	1:K:432:LEU:HD22	1.30	1.07
1:L:306:VAL:HG12	1:L:307:ASP:H	1.13	1.07
1:L:321:TYR:CE2	1:L:380:LYS:HG2	1.88	1.07
1:M:301:LEU:HD21	1:M:337:ALA:HB2	1.36	1.07
1:S:301:LEU:HD21	1:S:337:ALA:HB2	1.36	1.07
1:S:364:ASP:CG	1:S:402:LYS:HZ3	1.62	1.07
1:T:301:LEU:HD21	1:T:337:ALA:HB2	1.36	1.07
1:T:321:TYR:CD2	1:T:380:LYS:HE3	1.87	1.07
1:W:341:TYR:HB3	1:W:374:LEU:HD12	1.28	1.07
1:D:314:ALA:HB2	1:D:337:ALA:HA	1.32	1.07
1:G:321:TYR:CE2	1:G:380:LYS:HG2	1.88	1.07
1:G:364:ASP:CG	1:G:402:LYS:HZ3	1.62	1.07
1:K:341:TYR:HB3	1:K:374:LEU:HD12	1.28	1.07
1:M:364:ASP:CG	1:M:402:LYS:HZ3	1.62	1.07
1:O:301:LEU:HD21	1:O:337:ALA:HB2	1.36	1.07
1:Q:178:TYR:CE2	1:Q:378:ASP:OD1	2.06	1.07
1:Q:341:TYR:HB3	1:Q:374:LEU:HD12	1.28	1.07
1:H:319:MET:HE2	1:H:374:LEU:HD13	1.24	1.07
1:J:373:GLN:HB2	1:J:383:VAL:HG23	1.27	1.07
1:L:81:LEU:HD11	1:L:432:LEU:HD22	1.30	1.07
1:L:341:TYR:HB3	1:L:374:LEU:HD12	1.28	1.07
1:M:306:VAL:HG12	1:M:307:ASP:H	1.13	1.07
1:O:319:MET:HE2	1:O:374:LEU:HD13	1.24	1.07
1:Q:373:GLN:HB2	1:Q:383:VAL:HG23	1.27	1.07
1:T:4:ILE:CD1	1:T:497:PRO:HB2	1.85	1.07
1:W:314:ALA:HB2	1:W:337:ALA:HA	1.32	1.07
1:H:301:LEU:HD21	1:H:337:ALA:HB2	1.36	1.07
1:I:301:LEU:HD21	1:I:337:ALA:HB2	1.36	1.07
1:L:301:LEU:HD21	1:L:337:ALA:HB2	1.36	1.07
1:M:319:MET:HE2	1:M:374:LEU:HD13	1.24	1.07
1:B:301:LEU:HD21	1:B:337:ALA:HB2	1.36	1.07
1:H:364:ASP:CG	1:H:402:LYS:HZ3	1.63	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4:ILE:CD1	1:J:497:PRO:HB2	1.85	1.07
1:J:314:ALA:HB2	1:J:337:ALA:HA	1.31	1.07
1:M:180:VAL:CG2	1:M:321:TYR:CD1	2.35	1.07
1:Q:364:ASP:CG	1:Q:402:LYS:HZ3	1.63	1.07
1:S:306:VAL:HG12	1:S:307:ASP:H	1.13	1.07
1:S:321:TYR:CE2	1:S:380:LYS:HG2	1.88	1.07
1:W:180:VAL:HG22	1:W:321:TYR:HD1	1.00	1.07
1:A:81:LEU:HD11	1:A:432:LEU:HD22	1.30	1.06
1:C:301:LEU:HD21	1:C:337:ALA:HB2	1.36	1.06
1:C:321:TYR:CE2	1:C:380:LYS:HG2	1.88	1.06
1:C:364:ASP:CG	1:C:402:LYS:HZ3	1.63	1.06
1:G:301:LEU:HD21	1:G:337:ALA:HB2	1.36	1.06
1:G:306:VAL:HG12	1:G:307:ASP:H	1.13	1.06
1:M:180:VAL:HG22	1:M:321:TYR:HD1	1.00	1.06
1:O:178:TYR:CE2	1:O:378:ASP:OD1	2.06	1.06
1:R:4:ILE:HG13	1:R:501:LEU:HD12	1.13	1.06
1:T:4:ILE:HG13	1:T:501:LEU:HD12	1.13	1.06
1:B:293:VAL:CG1	1:B:297:ALA:HB3	1.86	1.06
1:B:501:LEU:CB	1:B:505:ARG:NH1	2.18	1.06
1:E:81:LEU:HD11	1:E:432:LEU:HD22	1.30	1.06
1:K:306:VAL:HG12	1:K:307:ASP:H	1.13	1.06
1:L:314:ALA:HB2	1:L:337:ALA:HA	1.31	1.06
1:Q:306:VAL:HG12	1:Q:307:ASP:H	1.13	1.06
1:R:341:TYR:HB3	1:R:374:LEU:HD12	1.28	1.06
1:R:364:ASP:CG	1:R:402:LYS:HZ3	1.62	1.06
1:S:180:VAL:CG2	1:S:321:TYR:CD1	2.36	1.06
1:U:301:LEU:HD21	1:U:337:ALA:HB2	1.36	1.06
1:C:4:ILE:CD1	1:C:497:PRO:HB2	1.85	1.06
1:D:180:VAL:HG22	1:D:321:TYR:HD1	1.00	1.06
1:D:301:LEU:HD21	1:D:337:ALA:HB2	1.36	1.06
1:D:319:MET:HE2	1:D:374:LEU:HD13	1.24	1.06
1:E:293:VAL:CG1	1:E:297:ALA:HB3	1.86	1.06
1:F:293:VAL:CG1	1:F:297:ALA:HB3	1.86	1.06
1:F:306:VAL:HG12	1:F:307:ASP:H	1.13	1.06
1:G:501:LEU:CB	1:G:505:ARG:NH1	2.18	1.06
1:J:35:LEU:HD21	1:U:5:ASN:ND2	1.69	1.06
1:L:293:VAL:CG1	1:L:297:ALA:HB3	1.86	1.06
1:L:364:ASP:CG	1:L:402:LYS:HZ3	1.64	1.06
1:M:4:ILE:HD11	1:M:497:PRO:HB3	1.26	1.06
1:M:293:VAL:CG1	1:M:297:ALA:HB3	1.86	1.06
1:P:81:LEU:HD11	1:P:432:LEU:HD22	1.30	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:319:MET:HE2	1:S:374:LEU:HD13	1.24	1.06
1:W:81:LEU:HD11	1:W:432:LEU:HD22	1.30	1.06
1:W:293:VAL:CG1	1:W:297:ALA:HB3	1.86	1.06
1:A:301:LEU:HD21	1:A:337:ALA:HB2	1.36	1.06
1:A:341:TYR:HB3	1:A:374:LEU:HD12	1.28	1.06
1:D:373:GLN:HB2	1:D:383:VAL:HG23	1.27	1.06
1:F:360:TYR:CZ	1:F:386:ILE:CG1	2.39	1.06
1:H:501:LEU:CB	1:H:505:ARG:NH1	2.18	1.06
1:I:4:ILE:CD1	1:I:497:PRO:HB2	1.85	1.06
1:J:180:VAL:CG2	1:J:321:TYR:CD1	2.36	1.06
1:J:306:VAL:HG12	1:J:307:ASP:H	1.13	1.06
1:J:360:TYR:CZ	1:J:386:ILE:CG1	2.39	1.06
1:P:360:TYR:CZ	1:P:386:ILE:CG1	2.39	1.06
1:Q:301:LEU:HD21	1:Q:337:ALA:HB2	1.36	1.06
1:Q:314:ALA:HB2	1:Q:337:ALA:HA	1.31	1.06
1:W:360:TYR:CZ	1:W:386:ILE:CG1	2.39	1.06
1:A:364:ASP:CG	1:A:402:LYS:HZ3	1.64	1.06
1:C:180:VAL:CG2	1:C:321:TYR:CD1	2.35	1.06
1:F:301:LEU:HD21	1:F:337:ALA:HB2	1.36	1.06
1:I:180:VAL:CG2	1:I:321:TYR:CD1	2.36	1.06
1:I:501:LEU:CB	1:I:505:ARG:NH1	2.18	1.06
1:L:360:TYR:CZ	1:L:386:ILE:CG1	2.39	1.06
1:P:293:VAL:CG1	1:P:297:ALA:HB3	1.86	1.06
1:Q:81:LEU:HD11	1:Q:432:LEU:HD22	1.30	1.06
1:Q:180:VAL:HG22	1:Q:321:TYR:HD1	1.00	1.06
1:S:293:VAL:CG1	1:S:297:ALA:HB3	1.86	1.06
1:U:314:ALA:HB2	1:U:337:ALA:HA	1.32	1.06
1:A:293:VAL:CG1	1:A:297:ALA:HB3	1.86	1.05
1:B:364:ASP:CG	1:B:402:LYS:HZ3	1.63	1.05
1:C:293:VAL:CG1	1:C:297:ALA:HB3	1.86	1.05
1:D:360:TYR:CZ	1:D:386:ILE:CG1	2.39	1.05
1:G:293:VAL:CG1	1:G:297:ALA:HB3	1.86	1.05
1:H:178:TYR:CE2	1:H:378:ASP:OD1	2.06	1.05
1:J:178:TYR:CE2	1:J:378:ASP:OD1	2.05	1.05
1:J:301:LEU:HD21	1:J:337:ALA:HB2	1.36	1.05
1:P:4:ILE:CD1	1:P:497:PRO:HB2	1.85	1.05
1:A:314:ALA:HB2	1:A:337:ALA:HA	1.31	1.05
1:A:501:LEU:CB	1:A:505:ARG:NH1	2.18	1.05
1:B:178:TYR:CE2	1:B:378:ASP:OD1	2.05	1.05
1:D:293:VAL:CG1	1:D:297:ALA:HB3	1.86	1.05
1:E:301:LEU:HD21	1:E:337:ALA:HB2	1.36	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:180:VAL:HG22	1:I:321:TYR:HD1	1.00	1.05
1:K:293:VAL:CG1	1:K:297:ALA:HB3	1.86	1.05
1:K:373:GLN:HB2	1:K:383:VAL:HG23	1.27	1.05
1:Q:293:VAL:CG1	1:Q:297:ALA:HB3	1.86	1.05
1:R:180:VAL:HG22	1:R:321:TYR:HD1	1.00	1.05
1:R:293:VAL:CG1	1:R:297:ALA:HB3	1.86	1.05
1:U:306:VAL:HG12	1:U:307:ASP:H	1.13	1.05
1:D:4:ILE:CD1	1:D:497:PRO:HB2	1.85	1.05
1:D:35:LEU:HD21	1:O:5:ASN:ND2	1.71	1.05
1:N:293:VAL:CG1	1:N:297:ALA:HB3	1.86	1.05
1:N:501:LEU:CB	1:N:505:ARG:NH1	2.18	1.05
1:O:293:VAL:CG1	1:O:297:ALA:HB3	1.86	1.05
1:O:314:ALA:HB2	1:O:337:ALA:HA	1.31	1.05
1:R:360:TYR:CZ	1:R:386:ILE:CG1	2.39	1.05
1:S:178:TYR:CE2	1:S:378:ASP:OD1	2.06	1.05
1:U:293:VAL:CG1	1:U:297:ALA:HB3	1.86	1.05
1:F:81:LEU:HD11	1:F:432:LEU:HD22	1.30	1.05
1:H:293:VAL:CG1	1:H:297:ALA:HB3	1.86	1.05
1:K:180:VAL:CG2	1:K:321:TYR:CD1	2.35	1.05
1:K:301:LEU:HD21	1:K:337:ALA:HB2	1.36	1.05
1:T:293:VAL:CG1	1:T:297:ALA:HB3	1.86	1.05
1:T:314:ALA:HB2	1:T:337:ALA:HA	1.31	1.05
1:T:360:TYR:CZ	1:T:386:ILE:CG1	2.39	1.05
1:U:360:TYR:CZ	1:U:386:ILE:CG1	2.39	1.05
1:W:373:GLN:CB	1:W:383:VAL:CG2	2.35	1.05
1:D:501:LEU:CB	1:D:505:ARG:NH1	2.18	1.05
1:F:178:TYR:CE2	1:F:378:ASP:OD1	2.06	1.05
1:F:373:GLN:CB	1:F:383:VAL:CG2	2.35	1.05
1:G:35:LEU:HD21	1:R:5:ASN:ND2	1.72	1.05
1:I:373:GLN:CB	1:I:383:VAL:CG2	2.35	1.05
1:O:373:GLN:CB	1:O:383:VAL:CG2	2.35	1.05
1:P:373:GLN:CB	1:P:383:VAL:CG2	2.35	1.05
1:W:301:LEU:HD21	1:W:337:ALA:HB2	1.36	1.05
1:A:35:LEU:HD21	1:L:5:ASN:ND2	1.72	1.04
1:A:306:VAL:HG12	1:A:307:ASP:H	1.13	1.04
1:C:161:GLN:O	1:C:166:THR:HG21	1.57	1.04
1:I:178:TYR:CE2	1:I:378:ASP:OD1	2.05	1.04
1:J:373:GLN:CB	1:J:383:VAL:CG2	2.35	1.04
1:M:178:TYR:CE2	1:M:378:ASP:OD1	2.06	1.04
1:N:4:ILE:HD11	1:N:497:PRO:HB3	1.26	1.04
1:O:360:TYR:CZ	1:O:386:ILE:CG1	2.39	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:501:LEU:CB	1:O:505:ARG:NH1	2.18	1.04
1:R:501:LEU:CB	1:R:505:ARG:NH1	2.18	1.04
1:A:178:TYR:CE2	1:A:378:ASP:OD1	2.06	1.04
1:B:360:TYR:CZ	1:B:386:ILE:CG1	2.39	1.04
1:C:35:LEU:HD21	1:N:5:ASN:ND2	1.72	1.04
1:E:360:TYR:CZ	1:E:386:ILE:CG1	2.39	1.04
1:H:469:TYR:CD2	1:S:501:LEU:HD22	1.90	1.04
1:I:293:VAL:CG1	1:I:297:ALA:HB3	1.86	1.04
1:K:360:TYR:CZ	1:K:386:ILE:CG1	2.39	1.04
1:L:4:ILE:CD1	1:L:497:PRO:HB2	1.85	1.04
1:N:4:ILE:CD1	1:N:497:PRO:HB2	1.85	1.04
1:N:178:TYR:CE2	1:N:378:ASP:OD1	2.06	1.04
1:N:360:TYR:CZ	1:N:386:ILE:CG1	2.39	1.04
1:P:301:LEU:HD21	1:P:337:ALA:HB2	1.36	1.04
1:Q:360:TYR:CZ	1:Q:386:ILE:CG1	2.39	1.04
1:Q:373:GLN:CB	1:Q:383:VAL:CG2	2.35	1.04
1:Q:501:LEU:CB	1:Q:505:ARG:NH1	2.18	1.04
1:S:4:ILE:CD1	1:S:497:PRO:HB2	1.85	1.04
1:T:161:GLN:O	1:T:166:THR:HG21	1.57	1.04
1:A:360:TYR:CZ	1:A:386:ILE:CG1	2.39	1.04
1:A:373:GLN:CB	1:A:383:VAL:CG2	2.35	1.04
1:B:35:LEU:HD21	1:M:5:ASN:ND2	1.72	1.04
1:C:373:GLN:CB	1:C:383:VAL:CG2	2.35	1.04
1:D:373:GLN:CB	1:D:383:VAL:CG2	2.35	1.04
1:E:35:LEU:HD21	1:P:5:ASN:ND2	1.73	1.04
1:I:161:GLN:O	1:I:166:THR:HG21	1.57	1.04
1:J:293:VAL:CG1	1:J:297:ALA:HB3	1.86	1.04
1:L:373:GLN:CB	1:L:383:VAL:CG2	2.35	1.04
1:L:501:LEU:CB	1:L:505:ARG:NH1	2.18	1.04
1:S:161:GLN:O	1:S:166:THR:HG21	1.57	1.04
1:T:501:LEU:CB	1:T:505:ARG:NH1	2.18	1.04
1:D:180:VAL:CG2	1:D:321:TYR:CD1	2.35	1.04
1:G:373:GLN:CB	1:G:383:VAL:CG2	2.35	1.04
1:H:4:ILE:CD1	1:H:497:PRO:HB2	1.85	1.04
1:H:360:TYR:CZ	1:H:386:ILE:CG1	2.39	1.04
1:R:4:ILE:CD1	1:R:497:PRO:HB2	1.85	1.04
1:T:373:GLN:CB	1:T:383:VAL:CG2	2.35	1.04
1:U:373:GLN:CB	1:U:383:VAL:CG2	2.35	1.04
1:W:173:ASN:ND2	1:W:411:ALA:CB	2.21	1.04
1:A:4:ILE:CD1	1:A:497:PRO:HB2	1.85	1.04
1:D:178:TYR:CE2	1:D:378:ASP:OD1	2.06	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:373:GLN:CB	1:E:383:VAL:CG2	2.35	1.04
1:I:360:TYR:CZ	1:I:386:ILE:CG1	2.39	1.04
1:J:161:GLN:O	1:J:166:THR:HG21	1.57	1.04
1:J:501:LEU:CB	1:J:505:ARG:NH1	2.18	1.04
1:M:161:GLN:O	1:M:166:THR:HG21	1.57	1.04
1:O:4:ILE:CD1	1:O:497:PRO:HB2	1.85	1.04
1:R:178:TYR:CE2	1:R:378:ASP:OD1	2.06	1.04
1:S:373:GLN:CB	1:S:383:VAL:CG2	2.35	1.04
1:U:373:GLN:HB2	1:U:383:VAL:HG23	1.27	1.04
1:C:360:TYR:CZ	1:C:386:ILE:CG1	2.39	1.03
1:C:364:ASP:CG	1:C:402:LYS:NZ	2.16	1.03
1:D:161:GLN:O	1:D:166:THR:HG21	1.57	1.03
1:F:364:ASP:CG	1:F:402:LYS:HZ3	1.65	1.03
1:G:360:TYR:CZ	1:G:386:ILE:CG1	2.39	1.03
1:G:364:ASP:CG	1:G:402:LYS:NZ	2.16	1.03
1:K:373:GLN:CB	1:K:383:VAL:CG2	2.35	1.03
1:L:180:VAL:HG22	1:L:321:TYR:HD1	1.00	1.03
1:L:364:ASP:CG	1:L:402:LYS:NZ	2.17	1.03
1:M:373:GLN:CB	1:M:383:VAL:CG2	2.35	1.03
1:N:180:VAL:HG22	1:N:321:TYR:HD1	1.00	1.03
1:Q:173:ASN:ND2	1:Q:411:ALA:CB	2.21	1.03
1:W:364:ASP:CG	1:W:402:LYS:NZ	2.16	1.03
1:W:501:LEU:CB	1:W:505:ARG:NH1	2.18	1.03
1:A:373:GLN:HB2	1:A:383:VAL:HG23	1.27	1.03
1:C:178:TYR:CE2	1:C:378:ASP:OD1	2.06	1.03
1:D:364:ASP:CG	1:D:402:LYS:NZ	2.17	1.03
1:G:180:VAL:HG22	1:G:321:TYR:HD1	1.00	1.03
1:H:364:ASP:CG	1:H:402:LYS:NZ	2.16	1.03
1:I:364:ASP:CG	1:I:402:LYS:NZ	2.16	1.03
1:N:161:GLN:O	1:N:166:THR:HG21	1.57	1.03
1:O:161:GLN:O	1:O:166:THR:HG21	1.58	1.03
1:P:173:ASN:ND2	1:P:411:ALA:CB	2.21	1.03
1:Q:364:ASP:CG	1:Q:402:LYS:NZ	2.16	1.03
1:R:173:ASN:ND2	1:R:411:ALA:CB	2.21	1.03
1:T:180:VAL:CG2	1:T:321:TYR:CD1	2.35	1.03
1:A:173:ASN:ND2	1:A:411:ALA:CB	2.21	1.03
1:D:4:ILE:HD11	1:D:497:PRO:HB3	1.26	1.03
1:F:4:ILE:CD1	1:F:497:PRO:HB2	1.85	1.03
1:F:35:LEU:HD21	1:Q:5:ASN:ND2	1.72	1.03
1:G:4:ILE:CD1	1:G:497:PRO:HB2	1.85	1.03
1:K:501:LEU:CB	1:K:505:ARG:NH1	2.18	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:501:LEU:CB	1:P:505:ARG:NH1	2.18	1.03
1:S:360:TYR:CZ	1:S:386:ILE:CG1	2.39	1.03
1:U:173:ASN:ND2	1:U:411:ALA:CB	2.21	1.03
1:U:501:LEU:CB	1:U:505:ARG:NH1	2.18	1.03
1:A:4:ILE:HD11	1:A:497:PRO:HB3	1.26	1.03
1:B:373:GLN:CB	1:B:383:VAL:CG2	2.35	1.03
1:D:144:THR:HA	1:D:156:ASP:OD1	1.59	1.03
1:E:180:VAL:CG2	1:E:321:TYR:CD1	2.35	1.03
1:J:81:LEU:HD11	1:J:432:LEU:CD2	1.89	1.03
1:L:144:THR:HA	1:L:156:ASP:OD1	1.59	1.03
1:M:360:TYR:CZ	1:M:386:ILE:CG1	2.39	1.03
1:M:364:ASP:CG	1:M:402:LYS:NZ	2.16	1.03
1:P:161:GLN:O	1:P:166:THR:HG21	1.57	1.03
1:Q:144:THR:HA	1:Q:156:ASP:OD1	1.59	1.03
1:R:373:GLN:CB	1:R:383:VAL:CG2	2.35	1.03
1:S:364:ASP:CG	1:S:402:LYS:NZ	2.16	1.03
1:U:4:ILE:CD1	1:U:497:PRO:HB2	1.85	1.03
1:B:161:GLN:O	1:B:166:THR:HG21	1.58	1.03
1:B:364:ASP:CG	1:B:402:LYS:NZ	2.16	1.03
1:F:501:LEU:CB	1:F:505:ARG:NH1	2.18	1.03
1:H:144:THR:HA	1:H:156:ASP:OD1	1.59	1.03
1:K:4:ILE:HD11	1:K:497:PRO:HB3	1.26	1.03
1:K:81:LEU:HD11	1:K:432:LEU:CD2	1.89	1.03
1:K:173:ASN:ND2	1:K:411:ALA:CB	2.21	1.03
1:L:81:LEU:HD11	1:L:432:LEU:CD2	1.89	1.03
1:L:173:ASN:ND2	1:L:411:ALA:CB	2.21	1.03
1:L:178:TYR:CE2	1:L:378:ASP:OD1	2.05	1.03
1:N:364:ASP:CG	1:N:402:LYS:NZ	2.17	1.03
1:N:373:GLN:CB	1:N:383:VAL:CG2	2.35	1.03
1:T:144:THR:HA	1:T:156:ASP:OD1	1.59	1.03
1:U:364:ASP:CG	1:U:402:LYS:NZ	2.17	1.03
1:W:144:THR:HA	1:W:156:ASP:OD1	1.59	1.03
1:B:81:LEU:HD11	1:B:432:LEU:CD2	1.89	1.02
1:F:173:ASN:ND2	1:F:411:ALA:CB	2.21	1.02
1:H:373:GLN:CB	1:H:383:VAL:CG2	2.35	1.02
1:J:364:ASP:CG	1:J:402:LYS:NZ	2.16	1.02
1:M:4:ILE:CD1	1:M:497:PRO:HB2	1.85	1.02
1:M:81:LEU:HD11	1:M:432:LEU:CD2	1.89	1.02
1:M:173:ASN:ND2	1:M:411:ALA:CB	2.21	1.02
1:N:173:ASN:ND2	1:N:411:ALA:CB	2.21	1.02
1:R:364:ASP:CG	1:R:402:LYS:NZ	2.16	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:81:LEU:HD11	1:S:432:LEU:CD2	1.89	1.02
1:S:173:ASN:ND2	1:S:411:ALA:CB	2.21	1.02
1:U:81:LEU:HD11	1:U:432:LEU:CD2	1.89	1.02
1:A:364:ASP:CG	1:A:402:LYS:NZ	2.16	1.02
1:B:4:ILE:HD11	1:B:497:PRO:HB3	1.26	1.02
1:B:173:ASN:HD21	1:B:411:ALA:HB3	1.21	1.02
1:C:81:LEU:HD11	1:C:432:LEU:CD2	1.89	1.02
1:C:144:THR:HA	1:C:156:ASP:OD1	1.59	1.02
1:C:501:LEU:CB	1:C:505:ARG:NH1	2.18	1.02
1:D:81:LEU:HD11	1:D:432:LEU:CD2	1.89	1.02
1:E:173:ASN:ND2	1:E:411:ALA:CB	2.21	1.02
1:E:501:LEU:CB	1:E:505:ARG:NH1	2.18	1.02
1:F:364:ASP:CG	1:F:402:LYS:NZ	2.16	1.02
1:G:144:THR:HA	1:G:156:ASP:OD1	1.59	1.02
1:G:161:GLN:O	1:G:166:THR:HG21	1.57	1.02
1:G:178:TYR:CE2	1:G:378:ASP:OD1	2.06	1.02
1:K:144:THR:HA	1:K:156:ASP:OD1	1.59	1.02
1:N:180:VAL:CG2	1:N:321:TYR:CD1	2.35	1.02
1:N:364:ASP:CG	1:N:402:LYS:HZ3	1.67	1.02
1:R:81:LEU:HD11	1:R:432:LEU:CD2	1.89	1.02
1:R:144:THR:HA	1:R:156:ASP:OD1	1.59	1.02
1:S:144:THR:HA	1:S:156:ASP:OD1	1.59	1.02
1:T:81:LEU:HD11	1:T:432:LEU:CD2	1.89	1.02
1:T:364:ASP:CG	1:T:402:LYS:NZ	2.16	1.02
1:A:81:LEU:HD11	1:A:432:LEU:CD2	1.89	1.02
1:A:144:THR:HA	1:A:156:ASP:OD1	1.59	1.02
1:B:173:ASN:ND2	1:B:411:ALA:CB	2.21	1.02
1:D:173:ASN:ND2	1:D:411:ALA:CB	2.21	1.02
1:E:4:ILE:CD1	1:E:497:PRO:HB2	1.85	1.02
1:F:144:THR:HA	1:F:156:ASP:OD1	1.59	1.02
1:G:4:ILE:HD11	1:G:497:PRO:HB3	1.26	1.02
1:G:173:ASN:ND2	1:G:411:ALA:CB	2.21	1.02
1:I:81:LEU:HD11	1:I:432:LEU:CD2	1.89	1.02
1:J:173:ASN:ND2	1:J:411:ALA:CB	2.21	1.02
1:J:469:TYR:CD2	1:U:501:LEU:HD22	1.93	1.02
1:K:364:ASP:CG	1:K:402:LYS:HZ3	1.65	1.02
1:O:144:THR:HA	1:O:156:ASP:OD1	1.59	1.02
1:P:4:ILE:HD11	1:P:497:PRO:HB3	1.26	1.02
1:P:144:THR:HA	1:P:156:ASP:OD1	1.59	1.02
1:P:364:ASP:CG	1:P:402:LYS:NZ	2.17	1.02
1:T:173:ASN:ND2	1:T:411:ALA:CB	2.21	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:180:VAL:CG2	1:U:321:TYR:CD1	2.35	1.02
1:C:173:ASN:ND2	1:C:411:ALA:CB	2.21	1.02
1:E:81:LEU:HD11	1:E:432:LEU:CD2	1.89	1.02
1:H:173:ASN:ND2	1:H:411:ALA:CB	2.21	1.02
1:I:173:ASN:ND2	1:I:411:ALA:CB	2.21	1.02
1:I:364:ASP:CG	1:I:402:LYS:HZ3	1.66	1.02
1:M:144:THR:HA	1:M:156:ASP:OD1	1.59	1.02
1:Q:161:GLN:O	1:Q:166:THR:HG21	1.57	1.02
1:R:173:ASN:HD21	1:R:411:ALA:HB3	1.21	1.02
1:U:161:GLN:O	1:U:166:THR:HG21	1.57	1.02
1:W:81:LEU:HD11	1:W:432:LEU:CD2	1.89	1.02
1:B:144:THR:HA	1:B:156:ASP:OD1	1.59	1.02
1:E:364:ASP:CG	1:E:402:LYS:NZ	2.16	1.02
1:F:161:GLN:O	1:F:166:THR:HG21	1.57	1.02
1:H:161:GLN:O	1:H:166:THR:HG21	1.57	1.02
1:H:180:VAL:CG2	1:H:321:TYR:CD1	2.35	1.02
1:K:4:ILE:CD1	1:K:497:PRO:HB2	1.85	1.02
1:K:364:ASP:CG	1:K:402:LYS:NZ	2.16	1.02
1:O:364:ASP:CG	1:O:402:LYS:NZ	2.16	1.02
1:P:364:ASP:CG	1:P:402:LYS:HZ3	1.66	1.02
1:Q:81:LEU:HD11	1:Q:432:LEU:CD2	1.89	1.02
1:U:144:THR:HA	1:U:156:ASP:OD1	1.59	1.02
1:U:173:ASN:HD21	1:U:411:ALA:HB3	1.21	1.02
1:W:364:ASP:CG	1:W:402:LYS:HZ3	1.66	1.02
1:A:161:GLN:O	1:A:166:THR:HG21	1.57	1.01
1:D:364:ASP:CG	1:D:402:LYS:HZ3	1.66	1.01
1:E:144:THR:HA	1:E:156:ASP:OD1	1.59	1.01
1:F:81:LEU:HD11	1:F:432:LEU:CD2	1.89	1.01
1:H:35:LEU:CD2	1:S:5:ASN:ND2	2.22	1.01
1:L:161:GLN:O	1:L:166:THR:HG21	1.57	1.01
1:N:81:LEU:HD11	1:N:432:LEU:CD2	1.89	1.01
1:P:81:LEU:HD11	1:P:432:LEU:CD2	1.89	1.01
1:R:180:VAL:CG2	1:R:321:TYR:CD1	2.35	1.01
1:S:180:VAL:HG22	1:S:321:TYR:HD1	1.00	1.01
1:T:178:TYR:CE2	1:T:378:ASP:OD1	2.06	1.01
1:T:364:ASP:CG	1:T:402:LYS:HZ2	1.66	1.01
1:W:161:GLN:O	1:W:166:THR:HG21	1.57	1.01
1:B:4:ILE:CD1	1:B:497:PRO:HB2	1.85	1.01
1:G:81:LEU:HD11	1:G:432:LEU:CD2	1.89	1.01
1:H:81:LEU:HD11	1:H:432:LEU:CD2	1.89	1.01
1:O:173:ASN:ND2	1:O:411:ALA:CB	2.21	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:180:VAL:CG2	1:B:321:TYR:CD1	2.35	1.01
1:C:38:ASN:HD22	1:C:41:LYS:HZ1	1.02	1.01
1:C:360:TYR:OH	1:C:386:ILE:CG1	2.09	1.01
1:D:469:TYR:CD2	1:O:501:LEU:HD22	1.95	1.01
1:F:180:VAL:HG22	1:F:321:TYR:HD1	1.00	1.01
1:F:180:VAL:CG2	1:F:321:TYR:CD1	2.36	1.01
1:G:360:TYR:OH	1:G:386:ILE:CG1	2.09	1.01
1:L:360:TYR:OH	1:L:386:ILE:CG1	2.09	1.01
1:B:360:TYR:OH	1:B:386:ILE:CG1	2.09	1.01
1:I:144:THR:HA	1:I:156:ASP:OD1	1.59	1.01
1:J:144:THR:HA	1:J:156:ASP:OD1	1.59	1.01
1:L:180:VAL:CG2	1:L:321:TYR:CD1	2.36	1.01
1:O:81:LEU:HD11	1:O:432:LEU:CD2	1.89	1.01
1:Q:4:ILE:CD1	1:Q:497:PRO:HB2	1.85	1.01
1:Q:360:TYR:OH	1:Q:386:ILE:CG1	2.09	1.01
1:R:161:GLN:O	1:R:166:THR:HG21	1.57	1.01
1:A:38:ASN:HD22	1:A:41:LYS:HZ1	1.02	1.01
1:C:4:ILE:HD11	1:C:497:PRO:HB3	1.26	1.01
1:E:161:GLN:O	1:E:166:THR:HG21	1.58	1.01
1:F:360:TYR:OH	1:F:386:ILE:CG1	2.09	1.01
1:G:173:ASN:HD21	1:G:411:ALA:HB3	1.21	1.01
1:T:360:TYR:OH	1:T:386:ILE:CG1	2.09	1.01
1:W:4:ILE:CD1	1:W:497:PRO:HB2	1.85	1.01
1:A:360:TYR:OH	1:A:386:ILE:CG1	2.09	1.00
1:H:360:TYR:OH	1:H:386:ILE:CG1	2.09	1.00
1:K:161:GLN:O	1:K:166:THR:HG21	1.58	1.00
1:K:360:TYR:OH	1:K:386:ILE:CG1	2.09	1.00
1:M:340:LYS:HD3	1:M:373:GLN:HE22	0.84	1.00
1:M:501:LEU:CB	1:M:505:ARG:NH1	2.18	1.00
1:N:144:THR:HA	1:N:156:ASP:OD1	1.59	1.00
1:U:4:ILE:HD11	1:U:497:PRO:HB3	1.26	1.00
1:G:469:TYR:HD2	1:R:501:LEU:HD21	1.18	1.00
1:H:340:LYS:HD3	1:H:373:GLN:HE22	0.84	1.00
1:I:35:LEU:CD2	1:T:5:ASN:ND2	2.24	1.00
1:L:321:TYR:HD2	1:L:380:LYS:HE3	1.27	1.00
1:M:360:TYR:OH	1:M:386:ILE:CG1	2.09	1.00
1:N:173:ASN:HD21	1:N:411:ALA:HB3	1.21	1.00
1:P:360:TYR:OH	1:P:386:ILE:CG1	2.09	1.00
1:R:340:LYS:HD3	1:R:373:GLN:HE22	0.84	1.00
1:S:360:TYR:OH	1:S:386:ILE:CG1	2.09	1.00
1:A:340:LYS:HD3	1:A:373:GLN:HE22	0.83	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:321:TYR:HD2	1:B:380:LYS:HE3	1.26	1.00
1:F:340:LYS:HD3	1:F:373:GLN:HE22	0.83	1.00
1:I:173:ASN:HD21	1:I:411:ALA:HB3	1.21	1.00
1:J:364:ASP:CG	1:J:402:LYS:HZ3	1.68	1.00
1:K:100:ASN:HD21	1:W:66:ASN:HB2	1.27	1.00
1:K:340:LYS:HD3	1:K:373:GLN:HE22	0.84	1.00
1:O:360:TYR:OH	1:O:386:ILE:CG1	2.09	1.00
1:U:340:LYS:CD	1:U:373:GLN:HE22	1.75	1.00
1:U:360:TYR:OH	1:U:386:ILE:CG1	2.09	1.00
1:W:180:VAL:CG2	1:W:321:TYR:CD1	2.36	1.00
1:W:360:TYR:OH	1:W:386:ILE:CG1	2.09	1.00
1:C:340:LYS:CD	1:C:373:GLN:HE22	1.75	1.00
1:G:321:TYR:HD2	1:G:380:LYS:HE3	1.27	1.00
1:P:340:LYS:CD	1:P:373:GLN:HE22	1.75	1.00
1:Q:321:TYR:HD2	1:Q:380:LYS:HE3	1.27	1.00
1:H:340:LYS:CD	1:H:373:GLN:HE22	1.75	1.00
1:N:360:TYR:OH	1:N:386:ILE:CG1	2.09	1.00
1:R:360:TYR:OH	1:R:386:ILE:CG1	2.09	1.00
1:C:100:ASN:HD21	1:N:66:ASN:HB2	1.27	1.00
1:C:340:LYS:HD3	1:C:373:GLN:HE22	0.84	1.00
1:H:293:VAL:HG13	1:H:297:ALA:HB3	1.44	1.00
1:J:35:LEU:CD2	1:U:5:ASN:ND2	2.25	1.00
1:A:180:VAL:CG2	1:A:321:TYR:CD1	2.36	1.00
1:K:469:TYR:CD2	1:W:501:LEU:HD22	1.92	1.00
1:Q:180:VAL:CG2	1:Q:321:TYR:CD1	2.35	1.00
1:I:293:VAL:HG13	1:I:297:ALA:HB3	1.44	0.99
1:J:360:TYR:OH	1:J:386:ILE:CG1	2.09	0.99
1:K:340:LYS:CD	1:K:373:GLN:HE22	1.75	0.99
1:O:364:ASP:CG	1:O:402:LYS:HZ3	1.68	0.99
1:S:501:LEU:CB	1:S:505:ARG:NH1	2.18	0.99
1:T:293:VAL:HG13	1:T:297:ALA:HB3	1.44	0.99
1:U:293:VAL:HG13	1:U:297:ALA:HB3	1.44	0.99
1:D:360:TYR:OH	1:D:386:ILE:CG1	2.09	0.99
1:E:340:LYS:CD	1:E:373:GLN:HE22	1.75	0.99
1:F:38:ASN:HD22	1:F:41:LYS:HZ1	1.01	0.99
1:P:38:ASN:HD22	1:P:41:LYS:HZ1	1.01	0.99
1:A:469:TYR:CD2	1:L:501:LEU:HD22	1.96	0.99
1:G:293:VAL:HG13	1:G:297:ALA:HB3	1.44	0.99
1:I:360:TYR:OH	1:I:386:ILE:CG1	2.09	0.99
1:I:469:TYR:CD2	1:T:501:LEU:HD22	1.93	0.99
1:J:340:LYS:CD	1:J:373:GLN:HE22	1.75	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:35:LEU:CD2	1:W:5:ASN:ND2	2.24	0.99
1:O:340:LYS:CD	1:O:373:GLN:HE22	1.75	0.99
1:P:340:LYS:HD3	1:P:373:GLN:HE22	0.84	0.99
1:R:293:VAL:HG13	1:R:297:ALA:HB3	1.44	0.99
1:S:38:ASN:HD22	1:S:41:LYS:HZ1	1.01	0.99
1:S:293:VAL:HG13	1:S:297:ALA:HB3	1.44	0.99
1:S:340:LYS:HD3	1:S:373:GLN:HE22	0.84	0.99
1:G:180:VAL:CG2	1:G:321:TYR:CD1	2.35	0.99
1:I:340:LYS:CD	1:I:373:GLN:HE22	1.75	0.99
1:J:293:VAL:HG13	1:J:297:ALA:HB3	1.44	0.99
1:M:340:LYS:CD	1:M:373:GLN:HE22	1.75	0.99
1:N:340:LYS:CD	1:N:373:GLN:HE22	1.75	0.99
1:O:180:VAL:CG2	1:O:321:TYR:CD1	2.35	0.99
1:S:340:LYS:CD	1:S:373:GLN:HE22	1.75	0.99
1:W:145:ILE:HG22	1:W:147:VAL:HG23	1.45	0.99
1:D:340:LYS:CD	1:D:373:GLN:HE22	1.75	0.99
1:K:38:ASN:HD22	1:K:41:LYS:HZ1	1.01	0.99
1:M:38:ASN:HD22	1:M:41:LYS:HZ1	1.01	0.99
1:T:340:LYS:CD	1:T:373:GLN:HE22	1.75	0.99
1:D:145:ILE:HG22	1:D:147:VAL:HG23	1.45	0.99
1:E:360:TYR:OH	1:E:386:ILE:CG1	2.09	0.99
1:F:340:LYS:CD	1:F:373:GLN:HE22	1.75	0.99
1:P:173:ASN:HD21	1:P:411:ALA:HB3	1.21	0.99
1:U:145:ILE:HG22	1:U:147:VAL:HG23	1.45	0.99
1:U:364:ASP:CG	1:U:402:LYS:HZ3	1.70	0.99
1:F:469:TYR:CD2	1:Q:501:LEU:HD22	1.95	0.99
1:H:100:ASN:HD21	1:S:66:ASN:HB2	1.27	0.99
1:H:321:TYR:HD2	1:H:380:LYS:HE3	1.27	0.99
1:K:145:ILE:HG22	1:K:147:VAL:HG23	1.45	0.99
1:P:145:ILE:HG22	1:P:147:VAL:HG23	1.45	0.99
1:W:340:LYS:CD	1:W:373:GLN:HE22	1.75	0.99
1:B:340:LYS:HD3	1:B:373:GLN:HE22	0.83	0.99
1:I:145:ILE:HG22	1:I:147:VAL:HG23	1.45	0.99
1:U:340:LYS:HD3	1:U:373:GLN:HE22	0.84	0.99
1:A:373:GLN:HB2	1:A:383:VAL:CG2	1.93	0.99
1:F:145:ILE:HG22	1:F:147:VAL:HG23	1.45	0.99
1:Q:340:LYS:HD3	1:Q:373:GLN:HE22	0.84	0.99
1:W:340:LYS:HD3	1:W:373:GLN:HE22	0.83	0.99
1:A:386:ILE:HG21	1:A:401:PHE:HE2	1.19	0.99
1:E:173:ASN:HD21	1:E:411:ALA:HB3	1.21	0.99
1:G:373:GLN:HB2	1:G:383:VAL:CG2	1.93	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:373:GLN:HB2	1:N:383:VAL:CG2	1.93	0.99
1:O:145:ILE:HG22	1:O:147:VAL:HG23	1.45	0.99
1:R:340:LYS:CD	1:R:373:GLN:HE22	1.75	0.99
1:A:340:LYS:CD	1:A:373:GLN:HE22	1.75	0.98
1:B:340:LYS:CD	1:B:373:GLN:HE22	1.75	0.98
1:D:373:GLN:HB2	1:D:383:VAL:CG2	1.93	0.98
1:E:145:ILE:HG22	1:E:147:VAL:HG23	1.45	0.98
1:M:321:TYR:HD2	1:M:380:LYS:HE3	1.27	0.98
1:Q:145:ILE:HG22	1:Q:147:VAL:HG23	1.45	0.98
1:Q:373:GLN:HB2	1:Q:383:VAL:CG2	1.93	0.98
1:R:386:ILE:HG21	1:R:401:PHE:HE2	1.19	0.98
1:U:373:GLN:HB2	1:U:383:VAL:CG2	1.93	0.98
1:N:340:LYS:HD3	1:N:373:GLN:HE22	0.83	0.98
1:T:145:ILE:HG22	1:T:147:VAL:HG23	1.45	0.98
1:T:373:GLN:HB2	1:T:383:VAL:CG2	1.93	0.98
1:A:145:ILE:HG22	1:A:147:VAL:HG23	1.45	0.98
1:E:340:LYS:HD3	1:E:373:GLN:HE22	0.83	0.98
1:F:321:TYR:HD2	1:F:380:LYS:HE3	1.27	0.98
1:K:321:TYR:HD2	1:K:380:LYS:HE3	1.27	0.98
1:K:373:GLN:HB2	1:K:383:VAL:CG2	1.93	0.98
1:Q:386:ILE:HG21	1:Q:401:PHE:HE2	1.18	0.98
1:J:145:ILE:HG22	1:J:147:VAL:HG23	1.45	0.98
1:O:373:GLN:HB2	1:O:383:VAL:CG2	1.93	0.98
1:G:340:LYS:HD3	1:G:373:GLN:HE22	0.83	0.98
1:K:293:VAL:HG13	1:K:297:ALA:HB3	1.44	0.98
1:F:100:ASN:HD21	1:Q:66:ASN:HB2	1.29	0.98
1:L:145:ILE:HG22	1:L:147:VAL:HG23	1.45	0.98
1:Q:340:LYS:CD	1:Q:373:GLN:HE22	1.75	0.98
1:E:373:GLN:HB2	1:E:383:VAL:CG2	1.93	0.98
1:G:469:TYR:CD2	1:R:501:LEU:HD22	1.95	0.98
1:J:373:GLN:HB2	1:J:383:VAL:CG2	1.93	0.98
1:L:340:LYS:HD3	1:L:373:GLN:HE22	0.83	0.98
1:N:145:ILE:HG22	1:N:147:VAL:HG23	1.45	0.98
1:Q:293:VAL:HG13	1:Q:297:ALA:HB3	1.44	0.98
1:C:81:LEU:CD1	1:C:432:LEU:HD22	1.94	0.98
1:M:373:GLN:HB2	1:M:383:VAL:CG2	1.93	0.98
1:C:321:TYR:HD2	1:C:380:LYS:HE3	1.27	0.98
1:E:114:GLU:OE2	1:U:43:ASP:HB2	1.64	0.98
1:G:340:LYS:CD	1:G:373:GLN:HE22	1.75	0.98
1:O:38:ASN:HD22	1:O:41:LYS:HZ1	1.01	0.98
1:T:81:LEU:CD1	1:T:432:LEU:HD22	1.94	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:293:VAL:HG13	1:W:297:ALA:HB3	1.44	0.98
1:W:321:TYR:HD2	1:W:380:LYS:HE3	1.27	0.98
1:C:373:GLN:HB2	1:C:383:VAL:CG2	1.93	0.98
1:F:293:VAL:HG13	1:F:297:ALA:HB3	1.44	0.98
1:F:469:TYR:HD2	1:Q:501:LEU:HD21	1.18	0.98
1:J:340:LYS:HD3	1:J:373:GLN:HE22	0.84	0.98
1:I:100:ASN:HD21	1:T:66:ASN:HB2	1.27	0.97
1:I:340:LYS:HD3	1:I:373:GLN:HE22	0.83	0.97
1:J:162:ILE:HD11	1:J:432:LEU:CD1	1.94	0.97
1:R:4:ILE:HD11	1:R:497:PRO:HB3	1.26	0.97
1:D:293:VAL:HG13	1:D:297:ALA:HB3	1.44	0.97
1:E:162:ILE:HD11	1:E:432:LEU:CD1	1.95	0.97
1:J:81:LEU:CD1	1:J:432:LEU:HD22	1.94	0.97
1:L:162:ILE:HD11	1:L:432:LEU:CD1	1.94	0.97
1:M:81:LEU:CD1	1:M:432:LEU:HD22	1.94	0.97
1:D:81:LEU:CD1	1:D:432:LEU:HD22	1.94	0.97
1:G:35:LEU:CD2	1:R:5:ASN:ND2	2.26	0.97
1:J:100:ASN:HD21	1:U:66:ASN:HB2	1.27	0.97
1:L:340:LYS:CD	1:L:373:GLN:HE22	1.75	0.97
1:N:81:LEU:CD1	1:N:432:LEU:HD22	1.94	0.97
1:O:162:ILE:HD11	1:O:432:LEU:CD1	1.94	0.97
1:Q:162:ILE:HD11	1:Q:432:LEU:CD1	1.94	0.97
1:R:321:TYR:HD2	1:R:380:LYS:HE3	1.27	0.97
1:W:373:GLN:HB2	1:W:383:VAL:CG2	1.93	0.97
1:B:373:GLN:HB3	1:B:383:VAL:CG2	1.95	0.97
1:C:469:TYR:CD2	1:N:501:LEU:HD22	1.95	0.97
1:D:100:ASN:HD21	1:O:66:ASN:HB2	1.28	0.97
1:I:81:LEU:CD1	1:I:432:LEU:HD22	1.94	0.97
1:O:293:VAL:HG13	1:O:297:ALA:HB3	1.44	0.97
1:O:340:LYS:HD3	1:O:373:GLN:HE22	0.83	0.97
1:S:173:ASN:HD21	1:S:411:ALA:HB3	1.21	0.97
1:A:321:TYR:HD2	1:A:380:LYS:HE3	1.27	0.97
1:D:35:LEU:CD2	1:O:5:ASN:ND2	2.27	0.97
1:E:373:GLN:HB3	1:E:383:VAL:CG2	1.95	0.97
1:F:373:GLN:HB2	1:F:383:VAL:CG2	1.93	0.97
1:G:145:ILE:HG22	1:G:147:VAL:HG23	1.45	0.97
1:G:162:ILE:HD11	1:G:432:LEU:CD1	1.95	0.97
1:I:148:GLY:HA3	1:I:153:GLU:OE1	0.79	0.97
1:P:180:VAL:CG2	1:P:321:TYR:CD1	2.36	0.97
1:S:145:ILE:HG22	1:S:147:VAL:HG23	1.45	0.97
1:G:81:LEU:CD1	1:G:432:LEU:HD22	1.94	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:173:ASN:HD21	1:J:411:ALA:HB3	1.21	0.97
1:M:173:ASN:HD21	1:M:411:ALA:HB3	1.21	0.97
1:P:373:GLN:HB2	1:P:383:VAL:CG2	1.93	0.97
1:S:81:LEU:CD1	1:S:432:LEU:HD22	1.94	0.97
1:U:162:ILE:HD11	1:U:432:LEU:CD1	1.94	0.97
1:C:35:LEU:CD2	1:N:5:ASN:ND2	2.27	0.97
1:D:340:LYS:HD3	1:D:373:GLN:HE22	0.84	0.97
1:J:373:GLN:HB3	1:J:383:VAL:CG2	1.95	0.97
1:P:81:LEU:CD1	1:P:432:LEU:HD22	1.94	0.97
1:R:145:ILE:HG22	1:R:147:VAL:HG23	1.45	0.97
1:U:373:GLN:HB3	1:U:383:VAL:CG2	1.95	0.97
1:B:145:ILE:HG22	1:B:147:VAL:HG23	1.45	0.97
1:B:148:GLY:HA3	1:B:153:GLU:OE1	0.79	0.97
1:C:145:ILE:HG22	1:C:147:VAL:HG23	1.45	0.97
1:D:148:GLY:HA3	1:D:153:GLU:OE1	0.79	0.97
1:E:293:VAL:HG13	1:E:297:ALA:HB3	1.44	0.97
1:K:173:ASN:HD21	1:K:411:ALA:HB3	1.21	0.97
1:M:293:VAL:HG13	1:M:297:ALA:HB3	1.44	0.97
1:U:148:GLY:HA3	1:U:153:GLU:OE1	0.79	0.97
1:W:162:ILE:HD11	1:W:432:LEU:CD1	1.95	0.97
1:A:114:GLU:OE2	1:Q:43:ASP:HB2	1.64	0.97
1:A:162:ILE:HD11	1:A:432:LEU:CD1	1.94	0.97
1:B:469:TYR:CD2	1:M:501:LEU:HD22	1.97	0.97
1:G:386:ILE:HG21	1:G:401:PHE:HE2	1.18	0.97
1:N:148:GLY:HA3	1:N:153:GLU:OE1	0.79	0.97
1:P:373:GLN:HB3	1:P:383:VAL:CG2	1.95	0.97
1:S:162:ILE:HD11	1:S:432:LEU:CD1	1.95	0.97
1:A:293:VAL:HG13	1:A:297:ALA:HB3	1.44	0.97
1:B:100:ASN:HD21	1:M:66:ASN:HB2	1.29	0.97
1:B:386:ILE:HG21	1:B:401:PHE:HE2	1.18	0.97
1:C:162:ILE:HD11	1:C:432:LEU:CD1	1.95	0.97
1:M:148:GLY:HA3	1:M:153:GLU:OE1	0.79	0.97
1:P:148:GLY:HA3	1:P:153:GLU:OE1	0.79	0.97
1:P:162:ILE:HD11	1:P:432:LEU:CD1	1.94	0.97
1:P:321:TYR:HD2	1:P:380:LYS:HE3	1.27	0.97
1:T:148:GLY:HA3	1:T:153:GLU:OE1	0.79	0.97
1:D:173:ASN:HD21	1:D:411:ALA:HB3	1.21	0.96
1:E:100:ASN:HD21	1:P:66:ASN:HB2	1.29	0.96
1:O:373:GLN:HB3	1:O:383:VAL:CG2	1.95	0.96
1:R:148:GLY:HA3	1:R:153:GLU:OE1	0.79	0.96
1:E:148:GLY:HA3	1:E:153:GLU:OE1	0.79	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:4:ILE:HD11	1:F:497:PRO:HB3	1.26	0.96
1:H:81:LEU:CD1	1:H:432:LEU:HD22	1.94	0.96
1:H:148:GLY:HA3	1:H:153:GLU:OE1	0.79	0.96
1:N:162:ILE:HD11	1:N:432:LEU:CD1	1.94	0.96
1:S:373:GLN:HB2	1:S:383:VAL:CG2	1.93	0.96
1:T:162:ILE:HD11	1:T:432:LEU:CD1	1.95	0.96
1:U:81:LEU:CD1	1:U:432:LEU:HD22	1.94	0.96
1:E:469:TYR:CD2	1:P:501:LEU:HD22	1.96	0.96
1:F:81:LEU:CD1	1:F:432:LEU:HD22	1.94	0.96
1:G:373:GLN:HB3	1:G:383:VAL:CG2	1.95	0.96
1:H:145:ILE:HG22	1:H:147:VAL:HG23	1.45	0.96
1:I:373:GLN:HB2	1:I:383:VAL:CG2	1.93	0.96
1:Q:81:LEU:CD1	1:Q:432:LEU:HD22	1.94	0.96
1:R:162:ILE:HD11	1:R:432:LEU:CD1	1.94	0.96
1:B:81:LEU:CD1	1:B:432:LEU:HD22	1.94	0.96
1:B:162:ILE:HD11	1:B:432:LEU:CD1	1.95	0.96
1:C:293:VAL:HG13	1:C:297:ALA:HB3	1.44	0.96
1:D:162:ILE:HD11	1:D:432:LEU:CD1	1.94	0.96
1:F:114:GLU:OE2	1:W:43:ASP:HB2	1.65	0.96
1:J:148:GLY:HA3	1:J:153:GLU:OE1	0.79	0.96
1:K:148:GLY:HA3	1:K:153:GLU:OE1	0.79	0.96
1:L:173:ASN:HD21	1:L:411:ALA:HB3	1.21	0.96
1:M:306:VAL:HG12	1:M:307:ASP:N	1.79	0.96
1:S:148:GLY:HA3	1:S:153:GLU:OE1	0.79	0.96
1:A:373:GLN:HB3	1:A:383:VAL:CG2	1.95	0.96
1:B:114:GLU:OE2	1:R:43:ASP:HB2	1.64	0.96
1:G:148:GLY:HA3	1:G:153:GLU:OE1	0.79	0.96
1:H:373:GLN:HB3	1:H:383:VAL:CG2	1.95	0.96
1:J:31:LEU:CD2	1:J:469:TYR:HD1	1.79	0.96
1:K:373:GLN:HB3	1:K:383:VAL:CG2	1.95	0.96
1:M:145:ILE:HG22	1:M:147:VAL:HG23	1.45	0.96
1:O:81:LEU:CD1	1:O:432:LEU:HD22	1.94	0.96
1:P:293:VAL:HG13	1:P:297:ALA:HB3	1.44	0.96
1:S:31:LEU:CD2	1:S:469:TYR:HD1	1.79	0.96
1:U:31:LEU:CD2	1:U:469:TYR:HD1	1.79	0.96
1:C:373:GLN:HB3	1:C:383:VAL:CG2	1.95	0.96
1:B:293:VAL:HG13	1:B:297:ALA:HB3	1.44	0.96
1:C:148:GLY:HA3	1:C:153:GLU:OE1	0.79	0.96
1:F:162:ILE:HD11	1:F:432:LEU:CD1	1.95	0.96
1:G:100:ASN:HD21	1:R:66:ASN:HB2	1.28	0.96
1:H:162:ILE:HD11	1:H:432:LEU:CD1	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:162:ILE:HD11	1:K:432:LEU:CD1	1.94	0.96
1:L:293:VAL:HG13	1:L:297:ALA:HB3	1.44	0.96
1:L:373:GLN:HB2	1:L:383:VAL:CG2	1.93	0.96
1:O:31:LEU:CD2	1:O:469:TYR:HD1	1.79	0.96
1:T:31:LEU:CD2	1:T:469:TYR:HD1	1.79	0.96
1:U:4:ILE:HD12	1:U:497:PRO:HB2	1.48	0.96
1:A:81:LEU:CD1	1:A:432:LEU:HD22	1.94	0.96
1:B:306:VAL:HG12	1:B:307:ASP:N	1.79	0.96
1:E:31:LEU:CD2	1:E:469:TYR:HD1	1.79	0.96
1:I:31:LEU:CD2	1:I:469:TYR:HD1	1.79	0.96
1:J:4:ILE:HD11	1:J:497:PRO:HB3	1.26	0.96
1:K:81:LEU:CD1	1:K:432:LEU:HD22	1.94	0.96
1:N:31:LEU:CD2	1:N:469:TYR:HD1	1.79	0.96
1:P:4:ILE:HD12	1:P:497:PRO:HB2	1.48	0.96
1:P:31:LEU:CD2	1:P:469:TYR:HD1	1.79	0.96
1:R:31:LEU:CD2	1:R:469:TYR:HD1	1.79	0.96
1:W:81:LEU:CD1	1:W:432:LEU:HD22	1.94	0.96
1:A:35:LEU:CD2	1:L:5:ASN:ND2	2.28	0.96
1:C:78:GLU:OE2	1:N:39:SER:CB	2.13	0.96
1:D:31:LEU:CD2	1:D:469:TYR:HD1	1.79	0.96
1:H:31:LEU:CD2	1:H:469:TYR:HD1	1.79	0.96
1:M:31:LEU:CD2	1:M:469:TYR:HD1	1.79	0.96
1:O:148:GLY:HA3	1:O:153:GLU:OE1	0.79	0.96
1:R:81:LEU:CD1	1:R:432:LEU:HD22	1.94	0.96
1:T:4:ILE:HD11	1:T:497:PRO:HB3	1.26	0.96
1:W:38:ASN:HD22	1:W:41:LYS:HZ1	1.01	0.96
1:D:4:ILE:HD12	1:D:497:PRO:HB2	1.48	0.96
1:F:148:GLY:HA3	1:F:153:GLU:OE1	0.79	0.96
1:H:306:VAL:HG12	1:H:307:ASP:N	1.79	0.96
1:I:4:ILE:HD12	1:I:497:PRO:HB2	1.48	0.96
1:I:78:GLU:OE2	1:T:39:SER:CB	2.13	0.96
1:I:162:ILE:HD11	1:I:432:LEU:CD1	1.95	0.96
1:L:81:LEU:CD1	1:L:432:LEU:HD22	1.94	0.96
1:L:148:GLY:HA3	1:L:153:GLU:OE1	0.79	0.96
1:N:306:VAL:HG12	1:N:307:ASP:N	1.79	0.96
1:Q:373:GLN:HB3	1:Q:383:VAL:CG2	1.95	0.96
1:S:4:ILE:HD11	1:S:497:PRO:HB3	1.26	0.96
1:C:31:LEU:CD2	1:C:469:TYR:HD1	1.79	0.95
1:E:4:ILE:HD12	1:E:497:PRO:HB2	1.48	0.95
1:E:81:LEU:CD1	1:E:432:LEU:HD22	1.94	0.95
1:F:386:ILE:HG21	1:F:401:PHE:HE2	1.19	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:31:LEU:CD2	1:K:469:TYR:HD1	1.79	0.95
1:T:340:LYS:HD3	1:T:373:GLN:HE22	0.83	0.95
1:T:373:GLN:HB3	1:T:383:VAL:CG2	1.95	0.95
1:W:373:GLN:HB3	1:W:383:VAL:CG2	1.95	0.95
1:B:78:GLU:OE2	1:M:39:SER:CB	2.12	0.95
1:B:373:GLN:HB2	1:B:383:VAL:CG2	1.93	0.95
1:N:293:VAL:HG13	1:N:297:ALA:HB3	1.44	0.95
1:N:321:TYR:HD2	1:N:380:LYS:HE3	1.26	0.95
1:A:148:GLY:HA3	1:A:153:GLU:OE1	0.79	0.95
1:B:31:LEU:CD2	1:B:469:TYR:HD1	1.79	0.95
1:C:173:ASN:HD21	1:C:411:ALA:HB3	1.21	0.95
1:D:78:GLU:OE2	1:O:39:SER:CB	2.14	0.95
1:H:469:TYR:CG	1:S:501:LEU:HD22	2.01	0.95
1:I:373:GLN:HB3	1:I:383:VAL:CG2	1.95	0.95
1:L:38:ASN:HD22	1:L:41:LYS:HZ1	1.02	0.95
1:L:373:GLN:HB3	1:L:383:VAL:CG2	1.95	0.95
1:N:373:GLN:HB3	1:N:383:VAL:CG2	1.95	0.95
1:Q:148:GLY:HA3	1:Q:153:GLU:OE1	0.79	0.95
1:I:321:TYR:HD2	1:I:380:LYS:HE3	1.27	0.95
1:M:162:ILE:HD11	1:M:432:LEU:CD1	1.95	0.95
1:Q:4:ILE:HD11	1:Q:497:PRO:HB3	1.26	0.95
1:D:373:GLN:HB3	1:D:383:VAL:CG2	1.95	0.95
1:E:35:LEU:CD2	1:P:5:ASN:ND2	2.28	0.95
1:F:31:LEU:CD2	1:F:469:TYR:HD1	1.79	0.95
1:F:35:LEU:CD2	1:Q:5:ASN:ND2	2.28	0.95
1:G:31:LEU:CD2	1:G:469:TYR:HD1	1.79	0.95
1:W:148:GLY:HA3	1:W:153:GLU:OE1	0.79	0.95
1:A:469:TYR:HD2	1:L:501:LEU:HD21	1.18	0.95
1:B:469:TYR:HD2	1:M:501:LEU:HD21	1.19	0.95
1:C:114:GLU:OE2	1:S:43:ASP:HB2	1.66	0.95
1:C:306:VAL:HG12	1:C:307:ASP:N	1.79	0.95
1:F:173:ASN:HD21	1:F:411:ALA:HB3	1.21	0.95
1:F:373:GLN:HB3	1:F:383:VAL:CG2	1.95	0.95
1:S:373:GLN:HB3	1:S:383:VAL:CG2	1.95	0.95
1:A:100:ASN:HD21	1:L:66:ASN:HB2	1.30	0.95
1:B:35:LEU:CD2	1:M:5:ASN:ND2	2.29	0.95
1:T:4:ILE:HD12	1:T:497:PRO:HB2	1.48	0.95
1:I:298:LYS:O	1:I:302:ILE:HG13	1.67	0.95
1:I:373:GLN:O	1:I:382:GLU:CA	2.15	0.95
1:K:469:TYR:CG	1:W:501:LEU:HD22	2.02	0.95
1:L:306:VAL:HG12	1:L:307:ASP:N	1.79	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:386:ILE:HG21	1:L:401:PHE:CD2	2.02	0.95
1:M:298:LYS:O	1:M:302:ILE:HG13	1.67	0.95
1:W:31:LEU:CD2	1:W:469:TYR:HD1	1.79	0.95
1:B:298:LYS:O	1:B:302:ILE:HG13	1.67	0.95
1:E:321:TYR:HD2	1:E:380:LYS:HE3	1.27	0.95
1:I:306:VAL:HG12	1:I:307:ASP:N	1.79	0.95
1:J:321:TYR:HD2	1:J:380:LYS:HE3	1.27	0.95
1:M:373:GLN:HB3	1:M:383:VAL:CG2	1.95	0.95
1:O:373:GLN:O	1:O:382:GLU:CA	2.15	0.95
1:C:373:GLN:O	1:C:382:GLU:CA	2.15	0.95
1:D:373:GLN:O	1:D:382:GLU:CA	2.15	0.95
1:G:306:VAL:HG12	1:G:307:ASP:N	1.79	0.95
1:L:31:LEU:CD2	1:L:469:TYR:HD1	1.79	0.95
1:O:298:LYS:O	1:O:302:ILE:HG13	1.67	0.95
1:Q:38:ASN:HD22	1:Q:41:LYS:HZ1	1.01	0.95
1:A:31:LEU:CD2	1:A:469:TYR:HD1	1.79	0.94
1:A:78:GLU:OE2	1:L:39:SER:CB	2.13	0.94
1:A:306:VAL:HG12	1:A:307:ASP:N	1.79	0.94
1:A:386:ILE:HG21	1:A:401:PHE:CD2	2.02	0.94
1:H:373:GLN:O	1:H:382:GLU:CA	2.15	0.94
1:J:373:GLN:O	1:J:382:GLU:CA	2.15	0.94
1:N:373:GLN:O	1:N:382:GLU:CA	2.15	0.94
1:B:386:ILE:HG21	1:B:401:PHE:CD2	2.02	0.94
1:G:38:ASN:HD22	1:G:41:LYS:HZ1	1.02	0.94
1:H:298:LYS:O	1:H:302:ILE:HG13	1.67	0.94
1:N:4:ILE:HD12	1:N:497:PRO:HB2	1.48	0.94
1:N:38:ASN:HD22	1:N:41:LYS:HZ1	1.01	0.94
1:R:306:VAL:HG12	1:R:307:ASP:N	1.79	0.94
1:S:298:LYS:O	1:S:302:ILE:HG13	1.67	0.94
1:W:386:ILE:HG21	1:W:401:PHE:CD2	2.02	0.94
1:C:45:ALA:O	1:C:49:ILE:HD13	1.68	0.94
1:D:298:LYS:O	1:D:302:ILE:HG13	1.67	0.94
1:H:78:GLU:OE2	1:S:39:SER:CB	2.14	0.94
1:J:45:ALA:O	1:J:49:ILE:HD13	1.68	0.94
1:K:4:ILE:HD12	1:K:497:PRO:HB2	1.48	0.94
1:S:321:TYR:HD2	1:S:380:LYS:HE3	1.27	0.94
1:D:38:ASN:HD22	1:D:41:LYS:HZ1	1.02	0.94
1:K:469:TYR:HD2	1:W:501:LEU:HD21	1.15	0.94
1:Q:31:LEU:CD2	1:Q:469:TYR:HD1	1.79	0.94
1:R:298:LYS:O	1:R:302:ILE:HG13	1.67	0.94
1:T:45:ALA:O	1:T:49:ILE:HD13	1.68	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:298:LYS:O	1:C:302:ILE:HG13	1.67	0.94
1:E:298:LYS:O	1:E:302:ILE:HG13	1.67	0.94
1:I:100:ASN:ND2	1:T:66:ASN:HB2	1.82	0.94
1:M:45:ALA:O	1:M:49:ILE:HD13	1.68	0.94
1:O:173:ASN:HD21	1:O:411:ALA:HB3	1.21	0.94
1:R:386:ILE:HG21	1:R:401:PHE:CD2	2.02	0.94
1:S:306:VAL:HG12	1:S:307:ASP:N	1.79	0.94
1:U:298:LYS:O	1:U:302:ILE:HG13	1.67	0.94
1:B:373:GLN:O	1:B:382:GLU:CA	2.15	0.94
1:H:386:ILE:HG21	1:H:401:PHE:HE2	1.19	0.94
1:K:386:ILE:HG21	1:K:401:PHE:CD2	2.02	0.94
1:L:298:LYS:O	1:L:302:ILE:HG13	1.67	0.94
1:R:373:GLN:HB3	1:R:383:VAL:CG2	1.95	0.94
1:S:45:ALA:O	1:S:49:ILE:HD13	1.68	0.94
1:S:386:ILE:HG21	1:S:401:PHE:CD2	2.02	0.94
1:D:321:TYR:HD2	1:D:380:LYS:HE3	1.27	0.94
1:E:78:GLU:OE2	1:P:39:SER:CB	2.15	0.94
1:F:386:ILE:HG21	1:F:401:PHE:CD2	2.02	0.94
1:H:373:GLN:HB2	1:H:383:VAL:CG2	1.93	0.94
1:I:45:ALA:O	1:I:49:ILE:HD13	1.68	0.94
1:J:4:ILE:HD12	1:J:497:PRO:HB2	1.48	0.94
1:J:78:GLU:OE2	1:U:39:SER:CB	2.14	0.94
1:M:386:ILE:HG21	1:M:401:PHE:CD2	2.02	0.94
1:T:373:GLN:O	1:T:382:GLU:CA	2.15	0.94
1:W:298:LYS:O	1:W:302:ILE:HG13	1.67	0.94
1:E:373:GLN:O	1:E:382:GLU:CA	2.15	0.94
1:M:373:GLN:O	1:M:382:GLU:CA	2.15	0.94
1:O:45:ALA:O	1:O:49:ILE:HD13	1.68	0.94
1:O:306:VAL:HG12	1:O:307:ASP:N	1.79	0.94
1:O:321:TYR:HD2	1:O:380:LYS:HE3	1.27	0.94
1:P:45:ALA:O	1:P:49:ILE:HD13	1.68	0.94
1:P:298:LYS:O	1:P:302:ILE:HG13	1.67	0.94
1:P:373:GLN:O	1:P:382:GLU:CA	2.15	0.94
1:R:373:GLN:HB2	1:R:383:VAL:CG2	1.93	0.94
1:S:386:ILE:HG21	1:S:401:PHE:HE2	1.18	0.94
1:T:306:VAL:HG12	1:T:307:ASP:N	1.79	0.94
1:U:45:ALA:O	1:U:49:ILE:HD13	1.68	0.94
1:U:373:GLN:O	1:U:382:GLU:CA	2.15	0.94
1:D:45:ALA:O	1:D:49:ILE:HD13	1.68	0.94
1:E:386:ILE:HG21	1:E:401:PHE:CD2	2.02	0.94
1:I:386:ILE:HG21	1:I:401:PHE:HE2	1.18	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:100:ASN:ND2	1:U:66:ASN:HB2	1.82	0.94
1:K:100:ASN:ND2	1:W:66:ASN:HB2	1.82	0.94
1:P:386:ILE:HG21	1:P:401:PHE:HE2	1.18	0.94
1:Q:298:LYS:O	1:Q:302:ILE:HG13	1.67	0.94
1:E:38:ASN:HD22	1:E:41:LYS:HZ1	1.02	0.94
1:F:298:LYS:O	1:F:302:ILE:HG13	1.67	0.94
1:G:298:LYS:O	1:G:302:ILE:HG13	1.68	0.94
1:G:373:GLN:O	1:G:382:GLU:CA	2.15	0.94
1:K:78:GLU:OE2	1:W:39:SER:CB	2.14	0.94
1:U:321:TYR:HD2	1:U:380:LYS:HE3	1.27	0.94
1:D:386:ILE:HG21	1:D:401:PHE:CD2	2.02	0.93
1:H:386:ILE:HG21	1:H:401:PHE:CD2	2.02	0.93
1:S:373:GLN:O	1:S:382:GLU:CA	2.15	0.93
1:T:173:ASN:HD21	1:T:411:ALA:HB3	1.21	0.93
1:A:173:ASN:HD21	1:A:411:ALA:HB3	1.21	0.93
1:D:306:VAL:HG12	1:D:307:ASP:N	1.79	0.93
1:G:386:ILE:HG21	1:G:401:PHE:CD2	2.02	0.93
1:H:100:ASN:ND2	1:S:66:ASN:HB2	1.82	0.93
1:K:373:GLN:O	1:K:382:GLU:CA	2.15	0.93
1:C:386:ILE:HG21	1:C:401:PHE:CD2	2.02	0.93
1:L:386:ILE:HG21	1:L:401:PHE:HE2	1.19	0.93
1:N:45:ALA:O	1:N:49:ILE:HD13	1.68	0.93
1:Q:373:GLN:O	1:Q:382:GLU:CA	2.15	0.93
1:U:386:ILE:HG21	1:U:401:PHE:CD2	2.02	0.93
1:G:78:GLU:OE2	1:R:39:SER:CB	2.15	0.93
1:J:298:LYS:O	1:J:302:ILE:HG13	1.67	0.93
1:O:4:ILE:HD12	1:O:497:PRO:HB2	1.48	0.93
1:Q:4:ILE:HD12	1:Q:497:PRO:HB2	1.48	0.93
1:A:373:GLN:O	1:A:382:GLU:CA	2.15	0.93
1:B:4:ILE:HD12	1:B:497:PRO:HB2	1.48	0.93
1:B:45:ALA:O	1:B:49:ILE:HD13	1.68	0.93
1:C:100:ASN:ND2	1:N:66:ASN:HB2	1.82	0.93
1:C:469:TYR:HD2	1:N:501:LEU:HD21	1.18	0.93
1:D:114:GLU:OE2	1:T:43:ASP:HB2	1.66	0.93
1:D:386:ILE:HG21	1:D:401:PHE:HE2	1.18	0.93
1:G:45:ALA:O	1:G:49:ILE:HD13	1.68	0.93
1:I:469:TYR:CG	1:T:501:LEU:HD22	2.02	0.93
1:J:386:ILE:HG21	1:J:401:PHE:CD2	2.02	0.93
1:N:298:LYS:O	1:N:302:ILE:HG13	1.67	0.93
1:P:386:ILE:HG21	1:P:401:PHE:CD2	2.02	0.93
1:T:298:LYS:O	1:T:302:ILE:HG13	1.67	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:100:ASN:ND2	1:O:66:ASN:HB2	1.83	0.93
1:F:45:ALA:O	1:F:49:ILE:HD13	1.68	0.93
1:F:373:GLN:O	1:F:382:GLU:CA	2.15	0.93
1:F:485:ALA:HB2	1:L:505:ARG:CZ	1.98	0.93
1:G:4:ILE:HD12	1:G:497:PRO:HB2	1.48	0.93
1:L:4:ILE:HD12	1:L:497:PRO:HB2	1.48	0.93
1:T:386:ILE:HG21	1:T:401:PHE:CD2	2.02	0.93
1:W:386:ILE:HG21	1:W:401:PHE:HE2	1.18	0.93
1:A:100:ASN:ND2	1:L:66:ASN:HB2	1.83	0.93
1:F:78:GLU:OE2	1:Q:39:SER:CB	2.15	0.93
1:F:306:VAL:HG12	1:F:307:ASP:N	1.79	0.93
1:I:386:ILE:HG21	1:I:401:PHE:CD2	2.02	0.93
1:L:373:GLN:O	1:L:382:GLU:CA	2.15	0.93
1:O:386:ILE:HG21	1:O:401:PHE:CD2	2.02	0.93
1:Q:173:ASN:HD21	1:Q:411:ALA:HB3	1.21	0.93
1:Q:386:ILE:HG21	1:Q:401:PHE:CD2	2.02	0.93
1:W:373:GLN:O	1:W:382:GLU:CA	2.15	0.93
1:J:38:ASN:HD22	1:J:41:LYS:HZ1	1.02	0.93
1:Q:148:GLY:HA3	1:Q:153:GLU:CD	1.94	0.93
1:A:298:LYS:O	1:A:302:ILE:HG13	1.67	0.93
1:K:298:LYS:O	1:K:302:ILE:HG13	1.67	0.93
1:Q:45:ALA:O	1:Q:49:ILE:HD13	1.68	0.93
1:U:386:ILE:HG21	1:U:401:PHE:HE2	1.19	0.93
1:W:306:VAL:HG12	1:W:307:ASP:N	1.79	0.93
1:A:148:GLY:HA3	1:A:153:GLU:CD	1.94	0.93
1:F:100:ASN:ND2	1:Q:66:ASN:HB2	1.83	0.93
1:H:485:ALA:HB2	1:N:505:ARG:CZ	1.99	0.93
1:K:148:GLY:HA3	1:K:153:GLU:CD	1.94	0.93
1:B:100:ASN:ND2	1:M:66:ASN:HB2	1.83	0.92
1:J:469:TYR:CG	1:U:501:LEU:HD22	2.03	0.92
1:K:386:ILE:HG21	1:K:401:PHE:HE2	1.19	0.92
1:N:386:ILE:HG21	1:N:401:PHE:CD2	2.02	0.92
1:R:4:ILE:HD12	1:R:497:PRO:HB2	1.48	0.92
1:R:373:GLN:O	1:R:382:GLU:CA	2.15	0.92
1:S:4:ILE:HD12	1:S:497:PRO:HB2	1.48	0.92
1:W:4:ILE:HD12	1:W:497:PRO:HB2	1.48	0.92
1:W:45:ALA:O	1:W:49:ILE:HD13	1.68	0.92
1:A:319:MET:HE2	1:A:374:LEU:CD1	2.00	0.92
1:B:38:ASN:HD22	1:B:41:LYS:HZ1	1.02	0.92
1:D:469:TYR:CG	1:O:501:LEU:HD22	2.04	0.92
1:E:306:VAL:HG12	1:E:307:ASP:N	1.79	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:319:MET:HE2	1:G:374:LEU:CD1	2.00	0.92
1:K:306:VAL:HG12	1:K:307:ASP:N	1.79	0.92
1:B:319:MET:HE2	1:B:374:LEU:CD1	2.00	0.92
1:C:319:MET:HE2	1:C:374:LEU:CD1	2.00	0.92
1:H:45:ALA:O	1:H:49:ILE:HD13	1.68	0.92
1:H:319:MET:HE2	1:H:374:LEU:CD1	2.00	0.92
1:I:319:MET:HE2	1:I:374:LEU:CD1	2.00	0.92
1:K:45:ALA:O	1:K:49:ILE:HD13	1.68	0.92
1:L:45:ALA:O	1:L:49:ILE:HD13	1.68	0.92
1:M:319:MET:HE2	1:M:374:LEU:CD1	2.00	0.92
1:T:321:TYR:HD2	1:T:380:LYS:HE3	1.27	0.92
1:D:319:MET:HE2	1:D:374:LEU:CD1	2.00	0.92
1:E:45:ALA:O	1:E:49:ILE:HD13	1.67	0.92
1:F:4:ILE:HD12	1:F:497:PRO:HB2	1.48	0.92
1:L:319:MET:HE2	1:L:374:LEU:CD1	2.00	0.92
1:N:319:MET:HE2	1:N:374:LEU:CD1	2.00	0.92
1:Q:306:VAL:HG12	1:Q:307:ASP:N	1.79	0.92
1:Q:319:MET:HE2	1:Q:374:LEU:CD1	2.00	0.92
1:C:469:TYR:CG	1:N:501:LEU:HD22	2.04	0.92
1:F:469:TYR:CG	1:Q:501:LEU:HD22	2.05	0.92
1:G:148:GLY:HA3	1:G:153:GLU:CD	1.94	0.92
1:M:136:VAL:O	1:M:159:LEU:CD1	2.18	0.92
1:P:306:VAL:HG12	1:P:307:ASP:N	1.79	0.92
1:R:319:MET:HE2	1:R:374:LEU:CD1	2.00	0.92
1:A:469:TYR:CG	1:L:501:LEU:HD22	2.05	0.92
1:C:136:VAL:O	1:C:159:LEU:CD1	2.18	0.92
1:F:319:MET:HE2	1:F:374:LEU:CD1	2.00	0.92
1:J:469:TYR:HD2	1:U:501:LEU:HD21	1.16	0.92
1:N:136:VAL:O	1:N:159:LEU:CD1	2.18	0.92
1:N:148:GLY:HA3	1:N:153:GLU:CD	1.94	0.92
1:S:319:MET:HE2	1:S:374:LEU:CD1	2.00	0.92
1:T:319:MET:HE2	1:T:374:LEU:CD1	2.00	0.92
1:H:148:GLY:HA3	1:H:153:GLU:CD	1.94	0.92
1:H:173:ASN:HD21	1:H:411:ALA:HB3	1.21	0.92
1:J:306:VAL:HG12	1:J:307:ASP:N	1.79	0.92
1:M:4:ILE:HD12	1:M:497:PRO:HB2	1.48	0.92
1:O:319:MET:HE2	1:O:374:LEU:CD1	2.00	0.92
1:U:148:GLY:HA3	1:U:153:GLU:CD	1.94	0.92
1:U:306:VAL:HG12	1:U:307:ASP:N	1.79	0.92
1:J:148:GLY:HA3	1:J:153:GLU:CD	1.94	0.92
1:R:148:GLY:HA3	1:R:153:GLU:CD	1.94	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:45:ALA:O	1:A:49:ILE:HD13	1.68	0.92
1:B:136:VAL:O	1:B:159:LEU:CD1	2.18	0.92
1:E:148:GLY:HA3	1:E:153:GLU:CD	1.94	0.92
1:G:485:ALA:HB2	1:M:505:ARG:CZ	1.99	0.92
1:S:136:VAL:O	1:S:159:LEU:CD1	2.18	0.92
1:T:136:VAL:O	1:T:159:LEU:CD1	2.18	0.92
1:W:319:MET:HE2	1:W:374:LEU:CD1	2.00	0.92
1:B:38:ASN:ND2	1:B:41:LYS:HZ1	1.68	0.92
1:C:4:ILE:HD12	1:C:497:PRO:HB2	1.48	0.92
1:F:148:GLY:HA3	1:F:153:GLU:CD	1.94	0.92
1:G:100:ASN:ND2	1:R:66:ASN:HB2	1.83	0.92
1:G:469:TYR:CG	1:R:501:LEU:HD22	2.04	0.92
1:H:4:ILE:HD12	1:H:497:PRO:HB2	1.48	0.92
1:I:148:GLY:HA3	1:I:153:GLU:CD	1.94	0.92
1:K:319:MET:HE2	1:K:374:LEU:CD1	2.00	0.92
1:M:38:ASN:ND2	1:M:41:LYS:HZ1	1.68	0.92
1:P:148:GLY:HA3	1:P:153:GLU:CD	1.94	0.92
1:T:38:ASN:HD22	1:T:41:LYS:HZ1	1.02	0.92
1:T:386:ILE:HG21	1:T:401:PHE:HE2	1.19	0.92
1:D:136:VAL:O	1:D:159:LEU:CD1	2.18	0.91
1:E:100:ASN:ND2	1:P:66:ASN:HB2	1.84	0.91
1:L:148:GLY:HA3	1:L:153:GLU:CD	1.94	0.91
1:O:148:GLY:HA3	1:O:153:GLU:CD	1.94	0.91
1:S:38:ASN:ND2	1:S:41:LYS:HZ1	1.68	0.91
1:D:469:TYR:HD2	1:O:501:LEU:HD21	1.18	0.91
1:L:136:VAL:O	1:L:159:LEU:CD1	2.18	0.91
1:O:136:VAL:O	1:O:159:LEU:CD1	2.18	0.91
1:R:45:ALA:O	1:R:49:ILE:HD13	1.68	0.91
1:R:136:VAL:O	1:R:159:LEU:CD1	2.18	0.91
1:W:148:GLY:HA3	1:W:153:GLU:CD	1.94	0.91
1:J:319:MET:HE2	1:J:374:LEU:CD1	2.00	0.91
1:M:386:ILE:HG21	1:M:401:PHE:HE2	1.19	0.91
1:Q:345:ASP:OD2	1:Q:356:LYS:CE	2.19	0.91
1:A:136:VAL:O	1:A:159:LEU:CD1	2.18	0.91
1:D:148:GLY:HA3	1:D:153:GLU:CD	1.94	0.91
1:I:345:ASP:OD2	1:I:356:LYS:CE	2.19	0.91
1:N:386:ILE:HG21	1:N:401:PHE:HE2	1.19	0.91
1:T:345:ASP:OD2	1:T:356:LYS:CE	2.19	0.91
1:J:345:ASP:OD2	1:J:356:LYS:CE	2.19	0.91
1:K:345:ASP:OD2	1:K:356:LYS:CE	2.19	0.91
1:P:319:MET:HE2	1:P:374:LEU:CD1	2.00	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:345:ASP:OD2	1:A:356:LYS:CE	2.19	0.91
1:E:469:TYR:HD2	1:P:501:LEU:HD21	1.19	0.91
1:G:345:ASP:OD2	1:G:356:LYS:CE	2.19	0.91
1:I:469:TYR:CG	1:T:501:LEU:CD2	2.53	0.91
1:M:485:ALA:HB2	1:S:505:ARG:CZ	2.01	0.91
1:S:148:GLY:HA3	1:S:153:GLU:CD	1.94	0.91
1:C:38:ASN:ND2	1:C:41:LYS:HZ1	1.68	0.91
1:L:38:ASN:ND2	1:L:41:LYS:HZ1	1.68	0.91
1:H:38:ASN:HD22	1:H:41:LYS:HZ1	1.02	0.91
1:Q:136:VAL:O	1:Q:159:LEU:CD1	2.18	0.91
1:W:173:ASN:HD21	1:W:411:ALA:HB3	1.21	0.91
1:B:469:TYR:CG	1:M:501:LEU:HD22	2.06	0.91
1:C:345:ASP:OD2	1:C:356:LYS:CE	2.19	0.91
1:E:38:ASN:ND2	1:E:41:LYS:HZ1	1.68	0.91
1:G:136:VAL:O	1:G:159:LEU:CD1	2.18	0.91
1:M:148:GLY:HA3	1:M:153:GLU:CD	1.94	0.91
1:P:345:ASP:OD2	1:P:356:LYS:CE	2.19	0.91
1:R:345:ASP:OD2	1:R:356:LYS:CE	2.19	0.91
1:U:345:ASP:OD2	1:U:356:LYS:CE	2.19	0.91
1:F:345:ASP:OD2	1:F:356:LYS:CE	2.19	0.91
1:H:136:VAL:O	1:H:159:LEU:CD1	2.18	0.91
1:O:345:ASP:OD2	1:O:356:LYS:CE	2.19	0.91
1:O:364:ASP:CB	1:O:402:LYS:HZ3	1.84	0.91
1:P:136:VAL:O	1:P:159:LEU:CD1	2.18	0.91
1:U:364:ASP:CB	1:U:402:LYS:HZ3	1.84	0.91
1:A:4:ILE:HD12	1:A:497:PRO:HB2	1.48	0.90
1:B:148:GLY:HA3	1:B:153:GLU:CD	1.94	0.90
1:I:136:VAL:O	1:I:159:LEU:CD1	2.18	0.90
1:M:345:ASP:OD2	1:M:356:LYS:CE	2.19	0.90
1:T:148:GLY:HA3	1:T:153:GLU:CD	1.94	0.90
1:U:136:VAL:O	1:U:159:LEU:CD1	2.18	0.90
1:W:108:LEU:HD13	1:W:174:VAL:O	1.71	0.90
1:A:38:ASN:ND2	1:A:41:LYS:HZ1	1.68	0.90
1:C:148:GLY:HA3	1:C:153:GLU:CD	1.94	0.90
1:D:364:ASP:CB	1:D:402:LYS:HZ3	1.84	0.90
1:E:319:MET:HE2	1:E:374:LEU:CD1	2.00	0.90
1:J:364:ASP:CB	1:J:402:LYS:HZ3	1.84	0.90
1:J:469:TYR:CG	1:U:501:LEU:CD2	2.55	0.90
1:S:108:LEU:HD13	1:S:174:VAL:O	1.71	0.90
1:T:38:ASN:ND2	1:T:41:LYS:HZ1	1.68	0.90
1:C:469:TYR:CG	1:N:501:LEU:CD2	2.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:38:ASN:ND2	1:K:41:LYS:HZ1	1.68	0.90
1:N:345:ASP:OD2	1:N:356:LYS:CE	2.19	0.90
1:Q:108:LEU:HD13	1:Q:174:VAL:O	1.71	0.90
1:U:319:MET:HE2	1:U:374:LEU:CD1	2.00	0.90
1:L:345:ASP:OD2	1:L:356:LYS:CE	2.19	0.90
1:M:375:GLY:O	1:M:379:GLY:HA2	1.72	0.90
1:S:345:ASP:OD2	1:S:356:LYS:CE	2.19	0.90
1:A:375:GLY:O	1:A:379:GLY:HA2	1.72	0.90
1:D:469:TYR:CG	1:O:501:LEU:CD2	2.55	0.90
1:E:136:VAL:O	1:E:159:LEU:CD1	2.18	0.90
1:H:38:ASN:ND2	1:H:41:LYS:HZ1	1.70	0.90
1:H:469:TYR:CG	1:S:501:LEU:CD2	2.52	0.90
1:I:364:ASP:CB	1:I:402:LYS:HZ3	1.84	0.90
1:J:386:ILE:HG21	1:J:401:PHE:HE2	1.19	0.90
1:K:136:VAL:O	1:K:159:LEU:CD1	2.18	0.90
1:L:108:LEU:HD13	1:L:174:VAL:O	1.71	0.90
1:L:375:GLY:O	1:L:379:GLY:HA2	1.72	0.90
1:R:108:LEU:HD13	1:R:174:VAL:O	1.71	0.90
1:B:375:GLY:O	1:B:379:GLY:HA2	1.72	0.90
1:E:469:TYR:CG	1:P:501:LEU:HD22	2.05	0.90
1:K:108:LEU:HD13	1:K:174:VAL:O	1.71	0.90
1:N:375:GLY:O	1:N:379:GLY:HA2	1.72	0.90
1:W:136:VAL:O	1:W:159:LEU:CD1	2.18	0.90
1:C:108:LEU:HD13	1:C:174:VAL:O	1.71	0.90
1:E:345:ASP:OD2	1:E:356:LYS:CE	2.19	0.90
1:E:386:ILE:HG21	1:E:401:PHE:HE2	1.18	0.90
1:F:136:VAL:O	1:F:159:LEU:CD1	2.18	0.90
1:H:108:LEU:HD13	1:H:174:VAL:O	1.71	0.90
1:K:469:TYR:CG	1:W:501:LEU:CD2	2.54	0.90
1:M:108:LEU:HD13	1:M:174:VAL:O	1.71	0.90
1:N:38:ASN:ND2	1:N:41:LYS:HZ1	1.68	0.90
1:N:108:LEU:HD13	1:N:174:VAL:O	1.71	0.90
1:P:108:LEU:HD13	1:P:174:VAL:O	1.71	0.90
1:W:38:ASN:ND2	1:W:41:LYS:HZ1	1.68	0.90
1:A:469:TYR:CG	1:L:501:LEU:CD2	2.55	0.90
1:B:345:ASP:OD2	1:B:356:LYS:CE	2.19	0.90
1:C:375:GLY:O	1:C:379:GLY:HA2	1.72	0.90
1:F:108:LEU:HD13	1:F:174:VAL:O	1.71	0.90
1:J:136:VAL:O	1:J:159:LEU:CD1	2.18	0.90
1:U:108:LEU:HD13	1:U:174:VAL:O	1.71	0.90
1:A:485:ALA:HB2	1:G:505:ARG:CZ	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:38:ASN:ND2	1:G:41:LYS:HZ1	1.68	0.90
1:O:38:ASN:ND2	1:O:41:LYS:HZ1	1.68	0.90
1:F:364:ASP:CB	1:F:402:LYS:HZ3	1.84	0.90
1:G:108:LEU:HD13	1:G:174:VAL:O	1.71	0.90
1:O:375:GLY:O	1:O:379:GLY:HA2	1.72	0.90
1:O:485:ALA:HB2	1:U:505:ARG:CZ	2.02	0.90
1:P:364:ASP:CB	1:P:402:LYS:HZ3	1.84	0.90
1:D:345:ASP:OD2	1:D:356:LYS:CE	2.19	0.89
1:D:375:GLY:O	1:D:379:GLY:HA2	1.72	0.89
1:F:38:ASN:ND2	1:F:41:LYS:HZ1	1.68	0.89
1:J:38:ASN:ND2	1:J:41:LYS:HZ1	1.68	0.89
1:P:485:ALA:HB2	1:W:505:ARG:CZ	2.02	0.89
1:D:4:ILE:HD13	1:D:497:PRO:HB3	1.55	0.89
1:E:108:LEU:HD13	1:E:174:VAL:O	1.71	0.89
1:M:60:LEU:HD22	1:M:450:LEU:HD22	1.54	0.89
1:N:364:ASP:CB	1:N:402:LYS:HZ3	1.84	0.89
1:R:60:LEU:HD22	1:R:450:LEU:HD22	1.54	0.89
1:D:38:ASN:ND2	1:D:41:LYS:HZ1	1.68	0.89
1:H:345:ASP:OD2	1:H:356:LYS:CE	2.19	0.89
1:I:108:LEU:HD13	1:I:174:VAL:O	1.71	0.89
1:I:375:GLY:O	1:I:379:GLY:HA2	1.72	0.89
1:M:373:GLN:HB3	1:M:383:VAL:HG23	1.53	0.89
1:Q:38:ASN:ND2	1:Q:41:LYS:HZ1	1.68	0.89
1:S:60:LEU:HD22	1:S:450:LEU:HD22	1.54	0.89
1:T:364:ASP:CB	1:T:402:LYS:HZ2	1.84	0.89
1:A:108:LEU:HD13	1:A:174:VAL:O	1.71	0.89
1:B:108:LEU:HD13	1:B:174:VAL:O	1.71	0.89
1:G:60:LEU:HD22	1:G:450:LEU:HD22	1.54	0.89
1:H:469:TYR:HD2	1:S:501:LEU:HD21	1.14	0.89
1:L:36:ARG:HB2	1:L:467:SER:HB3	1.55	0.89
1:P:375:GLY:O	1:P:379:GLY:HA2	1.72	0.89
1:Q:36:ARG:HB2	1:Q:467:SER:HB3	1.55	0.89
1:U:4:ILE:HD13	1:U:497:PRO:HB3	1.55	0.89
1:B:36:ARG:HB2	1:B:467:SER:HB3	1.55	0.89
1:E:4:ILE:HD13	1:E:497:PRO:HB3	1.55	0.89
1:E:375:GLY:O	1:E:379:GLY:HA2	1.72	0.89
1:L:364:ASP:CB	1:L:402:LYS:HZ3	1.85	0.89
1:S:36:ARG:HB2	1:S:467:SER:HB3	1.55	0.89
1:W:36:ARG:HB2	1:W:467:SER:HB3	1.55	0.89
1:W:364:ASP:CB	1:W:402:LYS:HZ3	1.84	0.89
1:G:36:ARG:HB2	1:G:467:SER:HB3	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:469:TYR:CG	1:R:501:LEU:CD2	2.55	0.89
1:L:60:LEU:HD22	1:L:450:LEU:HD22	1.54	0.89
1:L:485:ALA:HB2	1:R:505:ARG:CZ	2.03	0.89
1:N:485:ALA:HB2	1:T:505:ARG:CZ	2.01	0.89
1:P:38:ASN:ND2	1:P:41:LYS:HZ1	1.68	0.89
1:A:36:ARG:HB2	1:A:467:SER:HB3	1.55	0.89
1:A:101:SER:OG	1:L:143:LEU:HB3	1.71	0.89
1:C:485:ALA:HB2	1:I:505:ARG:CZ	2.02	0.89
1:N:36:ARG:HB2	1:N:467:SER:HB3	1.55	0.89
1:T:4:ILE:HD13	1:T:497:PRO:HB3	1.55	0.89
1:T:375:GLY:O	1:T:379:GLY:HA2	1.72	0.89
1:W:375:GLY:O	1:W:379:GLY:HA2	1.72	0.89
1:B:101:SER:OG	1:M:143:LEU:HB3	1.71	0.89
1:C:364:ASP:CB	1:C:402:LYS:HZ3	1.85	0.89
1:K:4:ILE:HD13	1:K:497:PRO:HB3	1.55	0.89
1:K:36:ARG:HB2	1:K:467:SER:HB3	1.55	0.89
1:K:485:ALA:HB2	1:Q:505:ARG:CZ	2.03	0.89
1:B:60:LEU:HD22	1:B:450:LEU:HD22	1.54	0.89
1:H:60:LEU:HD22	1:H:450:LEU:HD22	1.54	0.89
1:J:108:LEU:HD13	1:J:174:VAL:O	1.71	0.89
1:J:375:GLY:O	1:J:379:GLY:HA2	1.72	0.89
1:K:375:GLY:O	1:K:379:GLY:HA2	1.72	0.89
1:W:345:ASP:OD2	1:W:356:LYS:CE	2.19	0.89
1:D:108:LEU:HD13	1:D:174:VAL:O	1.71	0.89
1:F:36:ARG:HB2	1:F:467:SER:HB3	1.55	0.89
1:F:469:TYR:CG	1:Q:501:LEU:CD2	2.56	0.89
1:M:364:ASP:CB	1:M:402:LYS:HZ3	1.85	0.89
1:Q:364:ASP:CB	1:Q:402:LYS:HZ3	1.85	0.89
1:B:364:ASP:CB	1:B:402:LYS:HZ3	1.85	0.88
1:C:60:LEU:HD22	1:C:450:LEU:HD22	1.54	0.88
1:E:36:ARG:HB2	1:E:467:SER:HB3	1.55	0.88
1:H:36:ARG:HB2	1:H:467:SER:HB3	1.55	0.88
1:H:375:GLY:O	1:H:379:GLY:HA2	1.72	0.88
1:O:386:ILE:HG21	1:O:401:PHE:HE2	1.19	0.88
1:F:375:GLY:O	1:F:379:GLY:HA2	1.72	0.88
1:J:4:ILE:HD13	1:J:497:PRO:HB3	1.55	0.88
1:J:485:ALA:HB2	1:P:505:ARG:CZ	2.02	0.88
1:K:364:ASP:CB	1:K:402:LYS:HZ3	1.84	0.88
1:N:4:ILE:HD13	1:N:497:PRO:HB3	1.55	0.88
1:N:60:LEU:HD22	1:N:450:LEU:HD22	1.54	0.88
1:O:4:ILE:HD13	1:O:497:PRO:HB3	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:36:ARG:HB2	1:R:467:SER:HB3	1.55	0.88
1:S:364:ASP:CB	1:S:402:LYS:HZ3	1.85	0.88
1:W:4:ILE:HD13	1:W:497:PRO:HB3	1.55	0.88
1:G:364:ASP:CB	1:G:402:LYS:HZ3	1.85	0.88
1:I:485:ALA:HB2	1:O:505:ARG:CZ	2.03	0.88
1:S:375:GLY:O	1:S:379:GLY:HA2	1.72	0.88
1:T:108:LEU:HD13	1:T:174:VAL:O	1.71	0.88
1:B:469:TYR:CG	1:M:501:LEU:CD2	2.55	0.88
1:C:4:ILE:HD13	1:C:497:PRO:HB3	1.55	0.88
1:M:36:ARG:HB2	1:M:467:SER:HB3	1.55	0.88
1:R:375:GLY:O	1:R:379:GLY:HA2	1.72	0.88
1:A:60:LEU:HD22	1:A:450:LEU:HD22	1.54	0.88
1:G:375:GLY:O	1:G:379:GLY:HA2	1.72	0.88
1:P:36:ARG:HB2	1:P:467:SER:HB3	1.55	0.88
1:U:375:GLY:O	1:U:379:GLY:HA2	1.72	0.88
1:A:364:ASP:CB	1:A:402:LYS:HZ3	1.85	0.88
1:A:419:LEU:HD13	1:L:151:ASP:OD1	1.74	0.88
1:D:36:ARG:HB2	1:D:467:SER:HB3	1.55	0.88
1:I:36:ARG:HB2	1:I:467:SER:HB3	1.55	0.88
1:I:469:TYR:HD2	1:T:501:LEU:HD21	1.15	0.88
1:J:36:ARG:HB2	1:J:467:SER:HB3	1.55	0.88
1:Q:60:LEU:HD22	1:Q:450:LEU:HD22	1.54	0.88
1:Q:375:GLY:O	1:Q:379:GLY:HA2	1.72	0.88
1:C:101:SER:OG	1:N:143:LEU:HB3	1.73	0.88
1:D:391:TYR:CD1	1:D:407:LEU:HB2	2.09	0.88
1:B:485:ALA:HB2	1:H:505:ARG:CZ	2.04	0.88
1:D:101:SER:OG	1:O:143:LEU:HB3	1.74	0.88
1:D:485:ALA:HB2	1:J:505:ARG:CZ	2.03	0.88
1:E:101:SER:OG	1:P:143:LEU:HB3	1.74	0.88
1:E:391:TYR:CD1	1:E:407:LEU:HB2	2.09	0.88
1:O:36:ARG:HB2	1:O:467:SER:HB3	1.55	0.88
1:R:373:GLN:HB3	1:R:383:VAL:HG23	1.53	0.88
1:R:391:TYR:CD1	1:R:407:LEU:HB2	2.09	0.88
1:T:36:ARG:HB2	1:T:467:SER:HB3	1.55	0.88
1:B:373:GLN:HB3	1:B:383:VAL:HG23	1.53	0.88
1:C:36:ARG:HB2	1:C:467:SER:HB3	1.55	0.88
1:F:101:SER:OG	1:Q:143:LEU:HB3	1.74	0.88
1:S:391:TYR:CD1	1:S:407:LEU:HB2	2.09	0.88
1:U:36:ARG:HB2	1:U:467:SER:HB3	1.55	0.88
1:J:391:TYR:CD1	1:J:407:LEU:HB2	2.09	0.88
1:M:391:TYR:CD1	1:M:407:LEU:HB2	2.09	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:60:LEU:HD22	1:T:450:LEU:HD22	1.54	0.88
1:E:360:TYR:CZ	1:E:386:ILE:CD1	2.58	0.87
1:F:60:LEU:HD22	1:F:450:LEU:HD22	1.54	0.87
1:L:4:ILE:HD13	1:L:497:PRO:HB3	1.55	0.87
1:O:108:LEU:HD13	1:O:174:VAL:O	1.71	0.87
1:S:186:THR:HG21	1:S:290:PRO:HA	1.55	0.87
1:W:391:TYR:CD1	1:W:407:LEU:HB2	2.09	0.87
1:A:391:TYR:CD1	1:A:407:LEU:HB2	2.09	0.87
1:E:186:THR:HG21	1:E:290:PRO:HA	1.55	0.87
1:J:373:GLN:HB3	1:J:383:VAL:HG23	1.53	0.87
1:R:364:ASP:CB	1:R:402:LYS:HZ3	1.85	0.87
1:U:360:TYR:CZ	1:U:386:ILE:CD1	2.58	0.87
1:E:485:ALA:HB2	1:K:505:ARG:CZ	2.05	0.87
1:H:364:ASP:CB	1:H:402:LYS:HZ3	1.85	0.87
1:I:60:LEU:HD22	1:I:450:LEU:HD22	1.54	0.87
1:K:360:TYR:CZ	1:K:386:ILE:CD1	2.58	0.87
1:T:186:THR:HG21	1:T:290:PRO:CA	2.05	0.87
1:C:391:TYR:CD1	1:C:407:LEU:HB2	2.09	0.87
1:E:114:GLU:OE2	1:U:43:ASP:CB	2.22	0.87
1:F:4:ILE:HD13	1:F:497:PRO:HB3	1.55	0.87
1:F:114:GLU:OE2	1:W:43:ASP:CB	2.22	0.87
1:K:373:GLN:HB3	1:K:383:VAL:HG23	1.53	0.87
1:O:186:THR:HG21	1:O:290:PRO:CA	2.05	0.87
1:O:360:TYR:CZ	1:O:386:ILE:CD1	2.58	0.87
1:Q:391:TYR:CD1	1:Q:407:LEU:HB2	2.09	0.87
1:C:386:ILE:HG21	1:C:401:PHE:HE2	1.19	0.87
1:F:391:TYR:CD1	1:F:407:LEU:HB2	2.09	0.87
1:G:101:SER:OG	1:R:143:LEU:HB3	1.74	0.87
1:J:360:TYR:CZ	1:J:386:ILE:CD1	2.58	0.87
1:M:4:ILE:HD13	1:M:497:PRO:HB3	1.55	0.87
1:P:360:TYR:CZ	1:P:386:ILE:CD1	2.58	0.87
1:S:4:ILE:HD13	1:S:497:PRO:HB3	1.55	0.87
1:T:391:TYR:CD1	1:T:407:LEU:HB2	2.09	0.87
1:E:321:TYR:CD2	1:E:380:LYS:HG2	2.10	0.87
1:E:469:TYR:CG	1:P:501:LEU:CD2	2.56	0.87
1:F:321:TYR:CD2	1:F:380:LYS:HG2	2.10	0.87
1:K:321:TYR:CD2	1:K:380:LYS:HG2	2.10	0.87
1:N:391:TYR:CD1	1:N:407:LEU:HB2	2.09	0.87
1:W:360:TYR:CZ	1:W:386:ILE:CD1	2.58	0.87
1:D:360:TYR:CZ	1:D:386:ILE:CD1	2.58	0.87
1:E:419:LEU:HD13	1:P:151:ASP:OD1	1.74	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:391:TYR:CD1	1:H:407:LEU:HB2	2.09	0.87
1:L:391:TYR:CD1	1:L:407:LEU:HB2	2.09	0.87
1:P:60:LEU:HD22	1:P:450:LEU:HD22	1.54	0.87
1:U:391:TYR:CD1	1:U:407:LEU:HB2	2.09	0.87
1:W:60:LEU:HD22	1:W:450:LEU:HD22	1.54	0.87
1:W:186:THR:HG21	1:W:290:PRO:CA	2.05	0.87
1:B:360:TYR:CZ	1:B:386:ILE:CD1	2.58	0.87
1:C:334:ALA:HA	1:C:342:TYR:O	1.75	0.87
1:E:364:ASP:CB	1:E:402:LYS:HZ3	1.87	0.87
1:G:391:TYR:CD1	1:G:407:LEU:HB2	2.09	0.87
1:P:186:THR:HG21	1:P:290:PRO:HA	1.56	0.87
1:P:321:TYR:CD2	1:P:380:LYS:HG2	2.10	0.87
1:Q:321:TYR:CD2	1:Q:380:LYS:HG2	2.10	0.87
1:T:334:ALA:HA	1:T:342:TYR:O	1.75	0.87
1:A:321:TYR:CD2	1:A:380:LYS:HG2	2.10	0.87
1:D:186:THR:HG21	1:D:290:PRO:CA	2.05	0.87
1:J:186:THR:HG21	1:J:290:PRO:CA	2.05	0.87
1:J:321:TYR:CD2	1:J:380:LYS:HG2	2.10	0.87
1:K:391:TYR:CD1	1:K:407:LEU:HB2	2.09	0.87
1:P:4:ILE:HD13	1:P:497:PRO:HB3	1.55	0.87
1:Q:360:TYR:CZ	1:Q:386:ILE:CD1	2.58	0.87
1:T:360:TYR:CZ	1:T:386:ILE:CD1	2.58	0.87
1:W:321:TYR:CD2	1:W:380:LYS:HG2	2.10	0.87
1:B:391:TYR:CD1	1:B:407:LEU:HB2	2.09	0.86
1:F:360:TYR:CZ	1:F:386:ILE:CD1	2.58	0.86
1:I:4:ILE:HD13	1:I:497:PRO:HB3	1.55	0.86
1:I:186:THR:HG21	1:I:290:PRO:CA	2.05	0.86
1:I:360:TYR:CZ	1:I:386:ILE:CD1	2.58	0.86
1:L:321:TYR:CD2	1:L:380:LYS:HG2	2.10	0.86
1:P:391:TYR:CD1	1:P:407:LEU:HB2	2.09	0.86
1:A:334:ALA:HA	1:A:342:TYR:O	1.75	0.86
1:C:114:GLU:OE2	1:S:43:ASP:OD2	1.93	0.86
1:E:186:THR:HG21	1:E:290:PRO:CA	2.05	0.86
1:H:360:TYR:CZ	1:H:386:ILE:CD1	2.58	0.86
1:I:334:ALA:HA	1:I:342:TYR:O	1.75	0.86
1:K:60:LEU:HD22	1:K:450:LEU:HD22	1.54	0.86
1:R:360:TYR:CZ	1:R:386:ILE:CD1	2.58	0.86
1:T:186:THR:HG21	1:T:290:PRO:HA	1.55	0.86
1:F:419:LEU:HD13	1:Q:151:ASP:OD1	1.74	0.86
1:I:391:TYR:CD1	1:I:407:LEU:HB2	2.09	0.86
1:J:463:ARG:HG2	1:J:463:ARG:HH11	1.41	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:334:ALA:HA	1:N:342:TYR:O	1.75	0.86
1:O:60:LEU:HD22	1:O:450:LEU:HD22	1.54	0.86
1:O:391:TYR:CD1	1:O:407:LEU:HB2	2.09	0.86
1:A:360:TYR:CZ	1:A:386:ILE:CD1	2.57	0.86
1:B:4:ILE:HD13	1:B:497:PRO:HB3	1.55	0.86
1:D:60:LEU:HD22	1:D:450:LEU:HD22	1.54	0.86
1:H:419:LEU:HD13	1:S:151:ASP:OD1	1.75	0.86
1:I:101:SER:OG	1:T:143:LEU:HB3	1.74	0.86
1:N:321:TYR:CD2	1:N:380:LYS:HG2	2.10	0.86
1:O:321:TYR:CD2	1:O:380:LYS:HG2	2.10	0.86
1:Q:4:ILE:HD13	1:Q:497:PRO:HB3	1.55	0.86
1:Q:186:THR:HG21	1:Q:290:PRO:CA	2.05	0.86
1:A:4:ILE:HD13	1:A:497:PRO:HB3	1.55	0.86
1:B:114:GLU:OE2	1:R:43:ASP:CB	2.23	0.86
1:B:419:LEU:HD13	1:M:151:ASP:OD1	1.74	0.86
1:C:321:TYR:CD2	1:C:380:LYS:HG2	2.10	0.86
1:D:321:TYR:CD2	1:D:380:LYS:HG2	2.10	0.86
1:J:334:ALA:HA	1:J:342:TYR:O	1.75	0.86
1:U:60:LEU:HD22	1:U:450:LEU:HD22	1.54	0.86
1:U:321:TYR:CD2	1:U:380:LYS:HG2	2.10	0.86
1:W:334:ALA:HA	1:W:342:TYR:O	1.75	0.86
1:N:186:THR:HG21	1:N:290:PRO:CA	2.05	0.86
1:N:360:TYR:CZ	1:N:386:ILE:CD1	2.58	0.86
1:C:360:TYR:CZ	1:C:386:ILE:CD1	2.58	0.86
1:D:334:ALA:HA	1:D:342:TYR:O	1.75	0.86
1:E:334:ALA:HA	1:E:342:TYR:O	1.75	0.86
1:G:321:TYR:CD2	1:G:380:LYS:HG2	2.10	0.86
1:L:186:THR:HG21	1:L:290:PRO:HA	1.55	0.86
1:L:360:TYR:CZ	1:L:386:ILE:CD1	2.57	0.86
1:S:334:ALA:HA	1:S:342:TYR:O	1.75	0.86
1:P:373:GLN:HB3	1:P:383:VAL:HG23	1.53	0.86
1:W:463:ARG:HG2	1:W:463:ARG:HH11	1.41	0.86
1:G:373:GLN:HB3	1:G:383:VAL:HG23	1.53	0.86
1:I:321:TYR:CD2	1:I:380:LYS:HG2	2.10	0.86
1:M:334:ALA:HA	1:M:342:TYR:O	1.75	0.86
1:O:463:ARG:HG2	1:O:463:ARG:HH11	1.41	0.86
1:Q:186:THR:CB	1:Q:289:THR:O	2.23	0.86
1:R:334:ALA:HA	1:R:342:TYR:O	1.75	0.86
1:B:334:ALA:HA	1:B:342:TYR:O	1.75	0.86
1:E:60:LEU:HD22	1:E:450:LEU:HD22	1.54	0.86
1:F:334:ALA:HA	1:F:342:TYR:O	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4:ILE:HD13	1:G:497:PRO:HB3	1.55	0.86
1:J:60:LEU:HD22	1:J:450:LEU:HD22	1.54	0.86
1:R:4:ILE:HD13	1:R:497:PRO:HB3	1.55	0.86
1:T:321:TYR:CD2	1:T:380:LYS:HG2	2.10	0.86
1:C:114:GLU:OE2	1:S:43:ASP:CB	2.22	0.85
1:R:321:TYR:CD2	1:R:380:LYS:HG2	2.10	0.85
1:S:186:THR:HG21	1:S:290:PRO:CA	2.05	0.85
1:H:321:TYR:CD2	1:H:380:LYS:HG2	2.10	0.85
1:K:327:LYS:NZ	1:P:423:ASP:OD2	2.08	0.85
1:O:373:GLN:HB3	1:O:383:VAL:HG23	1.53	0.85
1:U:334:ALA:HA	1:U:342:TYR:O	1.75	0.85
1:G:334:ALA:HA	1:G:342:TYR:O	1.75	0.85
1:G:360:TYR:CZ	1:G:386:ILE:CD1	2.58	0.85
1:M:321:TYR:CD2	1:M:380:LYS:HG2	2.10	0.85
1:M:360:TYR:CZ	1:M:386:ILE:CD1	2.58	0.85
1:S:360:TYR:CZ	1:S:386:ILE:CD1	2.58	0.85
1:S:401:PHE:HE1	1:S:407:LEU:CD1	1.90	0.85
1:A:114:GLU:OE2	1:Q:43:ASP:CB	2.23	0.85
1:B:321:TYR:CD2	1:B:380:LYS:HG2	2.10	0.85
1:J:419:LEU:HD13	1:U:151:ASP:OD1	1.75	0.85
1:L:334:ALA:HA	1:L:342:TYR:O	1.75	0.85
1:T:401:PHE:HE1	1:T:407:LEU:CD1	1.90	0.85
1:C:463:ARG:HG2	1:C:463:ARG:HH11	1.41	0.85
1:D:114:GLU:OE2	1:T:43:ASP:CB	2.23	0.85
1:G:463:ARG:HG2	1:G:463:ARG:HH11	1.41	0.85
1:M:401:PHE:HE1	1:M:407:LEU:CD1	1.90	0.85
1:N:401:PHE:HE1	1:N:407:LEU:CD1	1.90	0.85
1:P:334:ALA:HA	1:P:342:TYR:O	1.75	0.85
1:U:401:PHE:HE1	1:U:407:LEU:CD1	1.90	0.85
1:A:401:PHE:HE1	1:A:407:LEU:CD1	1.90	0.85
1:B:463:ARG:HH11	1:B:463:ARG:HG2	1.41	0.85
1:D:327:LYS:NZ	1:I:423:ASP:OD2	2.09	0.85
1:I:38:ASN:HD22	1:I:41:LYS:HZ1	1.23	0.85
1:K:186:THR:HG21	1:K:290:PRO:CA	2.05	0.85
1:P:121:GLU:OE2	1:U:445:SER:OG	1.95	0.85
1:Q:334:ALA:HA	1:Q:342:TYR:O	1.75	0.85
1:F:114:GLU:OE2	1:W:43:ASP:OD2	1.94	0.85
1:G:401:PHE:HE1	1:G:407:LEU:CD1	1.90	0.85
1:H:401:PHE:HE1	1:H:407:LEU:CD1	1.90	0.85
1:J:327:LYS:NZ	1:O:423:ASP:OD2	2.09	0.85
1:L:463:ARG:HG2	1:L:463:ARG:HH11	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:186:THR:CB	1:N:289:THR:O	2.23	0.85
1:S:321:TYR:CD2	1:S:380:LYS:HG2	2.10	0.85
1:U:186:THR:HG21	1:U:290:PRO:CA	2.05	0.85
1:B:401:PHE:HE1	1:B:407:LEU:CD1	1.90	0.85
1:E:463:ARG:HH11	1:E:463:ARG:HG2	1.41	0.85
1:O:334:ALA:HA	1:O:342:TYR:O	1.75	0.85
1:S:186:THR:CB	1:S:289:THR:O	2.23	0.85
1:W:401:PHE:HE1	1:W:407:LEU:CD1	1.90	0.85
1:I:186:THR:CB	1:I:289:THR:O	2.23	0.85
1:J:101:SER:OG	1:U:143:LEU:HB3	1.76	0.85
1:L:186:THR:HG21	1:L:290:PRO:CA	2.05	0.85
1:O:401:PHE:HE1	1:O:407:LEU:CD1	1.90	0.85
1:R:401:PHE:HE1	1:R:407:LEU:CD1	1.90	0.85
1:W:186:THR:CB	1:W:289:THR:O	2.23	0.85
1:F:401:PHE:HE1	1:F:407:LEU:CD1	1.90	0.85
1:H:101:SER:OG	1:S:143:LEU:HB3	1.76	0.85
1:H:327:LYS:NZ	1:M:423:ASP:OD2	2.09	0.85
1:J:121:GLU:OE2	1:O:445:SER:OG	1.95	0.85
1:K:101:SER:OG	1:W:143:LEU:HB3	1.77	0.85
1:O:327:LYS:NZ	1:T:423:ASP:OD2	2.10	0.85
1:Q:463:ARG:HG2	1:Q:463:ARG:HH11	1.41	0.85
1:A:463:ARG:HG2	1:A:463:ARG:HH11	1.41	0.84
1:K:121:GLU:OE2	1:P:445:SER:OG	1.95	0.84
1:R:186:THR:HG21	1:R:290:PRO:CA	2.05	0.84
1:D:114:GLU:OE2	1:T:43:ASP:OD2	1.95	0.84
1:F:186:THR:HG21	1:F:290:PRO:CA	2.05	0.84
1:F:463:ARG:HG2	1:F:463:ARG:HH11	1.41	0.84
1:L:401:PHE:HE1	1:L:407:LEU:CD1	1.90	0.84
1:M:162:ILE:O	1:M:162:ILE:HG22	1.77	0.84
1:P:186:THR:CB	1:P:289:THR:O	2.23	0.84
1:P:401:PHE:HE1	1:P:407:LEU:CD1	1.90	0.84
1:Q:162:ILE:HG22	1:Q:162:ILE:O	1.78	0.84
1:R:386:ILE:CG2	1:R:401:PHE:HE2	1.90	0.84
1:B:386:ILE:CG2	1:B:401:PHE:HE2	1.90	0.84
1:C:121:GLU:OE2	1:H:445:SER:OG	1.95	0.84
1:I:401:PHE:HE1	1:I:407:LEU:CD1	1.90	0.84
1:K:334:ALA:HA	1:K:342:TYR:O	1.75	0.84
1:O:121:GLU:OE2	1:T:445:SER:OG	1.95	0.84
1:R:162:ILE:O	1:R:162:ILE:HG22	1.78	0.84
1:D:186:THR:CB	1:D:289:THR:O	2.23	0.84
1:F:386:ILE:CG2	1:F:401:PHE:HE2	1.90	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:386:ILE:CG2	1:G:401:PHE:HE2	1.90	0.84
1:G:419:LEU:HD13	1:R:151:ASP:OD1	1.76	0.84
1:H:334:ALA:HA	1:H:342:TYR:O	1.75	0.84
1:K:386:ILE:CG2	1:K:401:PHE:HE2	1.90	0.84
1:L:162:ILE:O	1:L:162:ILE:HG22	1.77	0.84
1:E:373:GLN:HB3	1:E:383:VAL:HG23	1.53	0.84
1:N:463:ARG:HG2	1:N:463:ARG:HH11	1.41	0.84
1:Q:327:LYS:NZ	1:W:423:ASP:OD2	2.10	0.84
1:S:162:ILE:HG22	1:S:162:ILE:O	1.78	0.84
1:U:186:THR:CB	1:U:289:THR:O	2.23	0.84
1:W:162:ILE:O	1:W:162:ILE:HG22	1.77	0.84
1:B:121:GLU:OE2	1:G:445:SER:OG	1.95	0.84
1:C:401:PHE:HE1	1:C:407:LEU:CD1	1.90	0.84
1:J:401:PHE:HE1	1:J:407:LEU:CD1	1.90	0.84
1:K:463:ARG:HG2	1:K:463:ARG:HH11	1.41	0.84
1:M:386:ILE:CG2	1:M:401:PHE:HE2	1.90	0.84
1:O:373:GLN:O	1:O:383:VAL:N	2.11	0.84
1:C:186:THR:HG21	1:C:290:PRO:CA	2.05	0.84
1:D:373:GLN:O	1:D:383:VAL:N	2.11	0.84
1:D:373:GLN:HB3	1:D:383:VAL:HG23	1.53	0.84
1:E:401:PHE:HE1	1:E:407:LEU:CD1	1.90	0.84
1:J:186:THR:HG21	1:J:290:PRO:HA	1.55	0.84
1:K:373:GLN:O	1:K:383:VAL:N	2.11	0.84
1:L:327:LYS:NZ	1:Q:423:ASP:OD2	2.11	0.84
1:M:186:THR:HG21	1:M:290:PRO:CA	2.05	0.84
1:N:327:LYS:NZ	1:S:423:ASP:OD2	2.10	0.84
1:P:186:THR:HG21	1:P:290:PRO:CA	2.05	0.84
1:T:463:ARG:HG2	1:T:463:ARG:HH11	1.41	0.84
1:U:463:ARG:HH11	1:U:463:ARG:HG2	1.41	0.84
1:W:373:GLN:O	1:W:383:VAL:N	2.11	0.84
1:A:386:ILE:CG2	1:A:401:PHE:HE2	1.90	0.84
1:C:327:LYS:NZ	1:H:423:ASP:OD2	2.10	0.84
1:D:401:PHE:HE1	1:D:407:LEU:CD1	1.90	0.84
1:D:419:LEU:HD13	1:O:151:ASP:OD1	1.76	0.84
1:H:4:ILE:HD13	1:H:497:PRO:HB3	1.55	0.84
1:N:162:ILE:HG22	1:N:162:ILE:O	1.77	0.84
1:P:492:GLN:O	1:P:496:VAL:HG23	1.78	0.84
1:A:144:THR:HG22	1:A:156:ASP:OD1	1.78	0.84
1:A:373:GLN:O	1:A:383:VAL:N	2.11	0.84
1:B:144:THR:HG22	1:B:156:ASP:OD1	1.78	0.84
1:F:293:VAL:HG13	1:F:297:ALA:CB	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:337:ALA:HB3	1:O:342:TYR:CE2	2.13	0.84
1:R:463:ARG:HG2	1:R:463:ARG:HH11	1.41	0.84
1:S:463:ARG:HG2	1:S:463:ARG:HH11	1.41	0.84
1:W:386:ILE:CG2	1:W:401:PHE:HE2	1.90	0.84
1:D:492:GLN:O	1:D:496:VAL:HG23	1.78	0.84
1:G:144:THR:HG22	1:G:156:ASP:OD1	1.78	0.84
1:G:499:ASN:O	1:G:503:LEU:HG	1.78	0.84
1:H:144:THR:HG22	1:H:156:ASP:OD1	1.78	0.84
1:H:162:ILE:O	1:H:162:ILE:HG22	1.78	0.84
1:H:186:THR:HG21	1:H:290:PRO:CA	2.05	0.84
1:K:401:PHE:HE1	1:K:407:LEU:CD1	1.90	0.84
1:L:492:GLN:O	1:L:496:VAL:HG23	1.78	0.84
1:M:499:ASN:O	1:M:503:LEU:HG	1.78	0.84
1:P:386:ILE:CG2	1:P:401:PHE:HE2	1.90	0.84
1:P:499:ASN:O	1:P:503:LEU:HG	1.78	0.84
1:U:492:GLN:O	1:U:496:VAL:HG23	1.78	0.84
1:A:293:VAL:HG13	1:A:297:ALA:CB	2.08	0.83
1:A:492:GLN:O	1:A:496:VAL:HG23	1.78	0.83
1:B:337:ALA:HB3	1:B:342:TYR:CE2	2.13	0.83
1:F:121:GLU:OE2	1:K:445:SER:OG	1.95	0.83
1:G:337:ALA:HB3	1:G:342:TYR:CE2	2.13	0.83
1:I:327:LYS:NZ	1:N:423:ASP:OD2	2.11	0.83
1:I:419:LEU:HD13	1:T:151:ASP:OD1	1.76	0.83
1:J:373:GLN:O	1:J:383:VAL:N	2.11	0.83
1:K:293:VAL:HG13	1:K:297:ALA:CB	2.08	0.83
1:K:419:LEU:HD13	1:W:151:ASP:OD1	1.76	0.83
1:L:373:GLN:O	1:L:383:VAL:N	2.11	0.83
1:L:386:ILE:CG2	1:L:401:PHE:HE2	1.90	0.83
1:M:463:ARG:HH11	1:M:463:ARG:HG2	1.41	0.83
1:M:492:GLN:O	1:M:496:VAL:HG23	1.78	0.83
1:N:373:GLN:O	1:N:383:VAL:N	2.11	0.83
1:O:186:THR:HB	1:O:289:THR:C	2.03	0.83
1:P:373:GLN:O	1:P:383:VAL:N	2.11	0.83
1:Q:293:VAL:HG13	1:Q:297:ALA:CB	2.08	0.83
1:Q:373:GLN:HB3	1:Q:383:VAL:HG23	1.53	0.83
1:Q:401:PHE:HE1	1:Q:407:LEU:CD1	1.90	0.83
1:Q:492:GLN:O	1:Q:496:VAL:HG23	1.78	0.83
1:S:492:GLN:O	1:S:496:VAL:HG23	1.78	0.83
1:T:492:GLN:O	1:T:496:VAL:HG23	1.78	0.83
1:U:337:ALA:HB3	1:U:342:TYR:CE2	2.13	0.83
1:A:121:GLU:OE2	1:F:445:SER:OG	1.95	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:186:THR:HB	1:B:289:THR:C	2.03	0.83
1:D:386:ILE:CD1	1:D:401:PHE:CE2	2.62	0.83
1:D:386:ILE:CG2	1:D:401:PHE:HE2	1.90	0.83
1:E:373:GLN:O	1:E:383:VAL:N	2.11	0.83
1:E:492:GLN:O	1:E:496:VAL:HG23	1.78	0.83
1:H:121:GLU:OE2	1:M:445:SER:OG	1.95	0.83
1:H:463:ARG:HG2	1:H:463:ARG:HH11	1.41	0.83
1:M:144:THR:HG22	1:M:156:ASP:OD1	1.78	0.83
1:N:492:GLN:O	1:N:496:VAL:HG23	1.78	0.83
1:Q:121:GLU:OE2	1:W:445:SER:OG	1.95	0.83
1:R:186:THR:HB	1:R:289:THR:C	2.03	0.83
1:R:337:ALA:HB3	1:R:342:TYR:CE2	2.13	0.83
1:S:293:VAL:HG13	1:S:297:ALA:CB	2.08	0.83
1:W:293:VAL:HG13	1:W:297:ALA:CB	2.08	0.83
1:A:147:VAL:HG21	1:A:155:ILE:HD12	1.61	0.83
1:A:186:THR:CB	1:A:289:THR:O	2.23	0.83
1:C:144:THR:HG22	1:C:156:ASP:OD1	1.78	0.83
1:C:373:GLN:O	1:C:383:VAL:N	2.11	0.83
1:F:327:LYS:NZ	1:K:423:ASP:OD2	2.10	0.83
1:F:499:ASN:O	1:F:503:LEU:HG	1.78	0.83
1:G:121:GLU:OE2	1:L:445:SER:OG	1.96	0.83
1:G:162:ILE:O	1:G:162:ILE:HG22	1.77	0.83
1:G:186:THR:HG21	1:G:290:PRO:CA	2.05	0.83
1:H:293:VAL:HG13	1:H:297:ALA:CB	2.08	0.83
1:K:162:ILE:HG22	1:K:162:ILE:O	1.78	0.83
1:K:499:ASN:O	1:K:503:LEU:HG	1.78	0.83
1:L:186:THR:HB	1:L:289:THR:C	2.03	0.83
1:O:492:GLN:O	1:O:496:VAL:HG23	1.78	0.83
1:P:162:ILE:O	1:P:162:ILE:HG22	1.78	0.83
1:Q:499:ASN:O	1:Q:503:LEU:HG	1.78	0.83
1:R:492:GLN:O	1:R:496:VAL:HG23	1.78	0.83
1:U:186:THR:HG21	1:U:290:PRO:HA	1.55	0.83
1:U:373:GLN:O	1:U:383:VAL:N	2.11	0.83
1:E:121:GLU:OE2	1:J:445:SER:OG	1.95	0.83
1:F:144:THR:HG22	1:F:156:ASP:OD1	1.78	0.83
1:H:499:ASN:O	1:H:503:LEU:HG	1.78	0.83
1:I:186:THR:HB	1:I:289:THR:C	2.03	0.83
1:I:386:ILE:CG2	1:I:401:PHE:HE2	1.90	0.83
1:M:293:VAL:HG13	1:M:297:ALA:CB	2.08	0.83
1:P:293:VAL:HG13	1:P:297:ALA:CB	2.08	0.83
1:Q:147:VAL:HG21	1:Q:155:ILE:HD12	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:144:THR:HG22	1:U:156:ASP:OD1	1.78	0.83
1:W:499:ASN:O	1:W:503:LEU:HG	1.78	0.83
1:E:337:ALA:HB3	1:E:342:TYR:CE2	2.13	0.83
1:E:386:ILE:CD1	1:E:401:PHE:CE2	2.62	0.83
1:I:492:GLN:O	1:I:496:VAL:HG23	1.78	0.83
1:J:147:VAL:HG21	1:J:155:ILE:HD12	1.61	0.83
1:J:386:ILE:CD1	1:J:401:PHE:CE2	2.61	0.83
1:L:121:GLU:OE2	1:Q:445:SER:OG	1.95	0.83
1:L:499:ASN:O	1:L:503:LEU:HG	1.78	0.83
1:N:293:VAL:HG13	1:N:297:ALA:CB	2.08	0.83
1:O:386:ILE:CD1	1:O:401:PHE:CE2	2.61	0.83
1:Q:386:ILE:CG2	1:Q:401:PHE:HE2	1.90	0.83
1:S:337:ALA:HB3	1:S:342:TYR:CE2	2.13	0.83
1:A:327:LYS:NZ	1:F:423:ASP:OD2	2.12	0.83
1:B:492:GLN:O	1:B:496:VAL:HG23	1.78	0.83
1:C:144:THR:CA	1:C:156:ASP:OD1	2.27	0.83
1:E:293:VAL:HG13	1:E:297:ALA:CB	2.08	0.83
1:H:144:THR:CA	1:H:156:ASP:OD1	2.27	0.83
1:H:386:ILE:CG2	1:H:401:PHE:HE2	1.90	0.83
1:I:373:GLN:O	1:I:383:VAL:N	2.11	0.83
1:J:337:ALA:HB3	1:J:342:TYR:CE2	2.13	0.83
1:L:293:VAL:HG13	1:L:297:ALA:CB	2.08	0.83
1:P:327:LYS:NZ	1:U:423:ASP:OD2	2.10	0.83
1:P:337:ALA:HB3	1:P:342:TYR:CE2	2.13	0.83
1:Q:373:GLN:O	1:Q:383:VAL:N	2.11	0.83
1:R:499:ASN:O	1:R:503:LEU:HG	1.78	0.83
1:A:186:THR:HG21	1:A:290:PRO:CA	2.05	0.83
1:E:144:THR:HG22	1:E:156:ASP:OD1	1.78	0.83
1:E:186:THR:HB	1:E:289:THR:C	2.03	0.83
1:G:147:VAL:HG21	1:G:155:ILE:HD12	1.61	0.83
1:K:147:VAL:HG21	1:K:155:ILE:HD12	1.61	0.83
1:L:144:THR:HG22	1:L:156:ASP:OD1	1.78	0.83
1:L:337:ALA:HB3	1:L:342:TYR:CE2	2.13	0.83
1:R:147:VAL:HG21	1:R:155:ILE:HD12	1.61	0.83
1:T:144:THR:CA	1:T:156:ASP:OD1	2.27	0.83
1:U:186:THR:HB	1:U:289:THR:C	2.03	0.83
1:U:293:VAL:HG13	1:U:297:ALA:CB	2.08	0.83
1:U:499:ASN:O	1:U:503:LEU:HG	1.78	0.83
1:A:186:THR:HB	1:A:289:THR:C	2.03	0.83
1:A:499:ASN:O	1:A:503:LEU:HG	1.79	0.83
1:C:293:VAL:HG13	1:C:297:ALA:CB	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:144:THR:CA	1:D:156:ASP:OD1	2.27	0.83
1:F:186:THR:HB	1:F:289:THR:C	2.03	0.83
1:F:386:ILE:CD1	1:F:401:PHE:CE2	2.61	0.83
1:I:144:THR:HG22	1:I:156:ASP:OD1	1.78	0.83
1:I:293:VAL:HG13	1:I:297:ALA:CB	2.08	0.83
1:I:337:ALA:HB3	1:I:342:TYR:CE2	2.13	0.83
1:J:499:ASN:O	1:J:503:LEU:HG	1.78	0.83
1:L:360:TYR:CZ	1:L:386:ILE:HD11	2.14	0.83
1:N:144:THR:HG22	1:N:156:ASP:OD1	1.78	0.83
1:N:386:ILE:CG2	1:N:401:PHE:HE2	1.90	0.83
1:N:499:ASN:O	1:N:503:LEU:HG	1.79	0.83
1:P:147:VAL:HG21	1:P:155:ILE:HD12	1.61	0.83
1:S:144:THR:CA	1:S:156:ASP:OD1	2.27	0.83
1:S:144:THR:HG22	1:S:156:ASP:OD1	1.78	0.83
1:S:386:ILE:CG2	1:S:401:PHE:HE2	1.90	0.83
1:T:162:ILE:O	1:T:162:ILE:HG22	1.78	0.83
1:T:293:VAL:HG13	1:T:297:ALA:CB	2.08	0.83
1:U:386:ILE:CG2	1:U:401:PHE:HE2	1.90	0.83
1:W:144:THR:HG22	1:W:156:ASP:OD1	1.78	0.83
1:A:386:ILE:CD1	1:A:401:PHE:CE2	2.61	0.83
1:C:492:GLN:O	1:C:496:VAL:HG23	1.78	0.83
1:E:386:ILE:CG2	1:E:401:PHE:HE2	1.90	0.83
1:F:373:GLN:O	1:F:383:VAL:N	2.11	0.83
1:G:327:LYS:NZ	1:L:423:ASP:OD2	2.10	0.83
1:H:373:GLN:O	1:H:383:VAL:N	2.11	0.83
1:I:463:ARG:HG2	1:I:463:ARG:HH11	1.41	0.83
1:J:144:THR:HG22	1:J:156:ASP:OD1	1.78	0.83
1:M:337:ALA:HB3	1:M:342:TYR:CE2	2.13	0.83
1:O:144:THR:HG22	1:O:156:ASP:OD1	1.78	0.83
1:O:293:VAL:HG13	1:O:297:ALA:CB	2.08	0.83
1:O:499:ASN:O	1:O:503:LEU:HG	1.79	0.83
1:R:293:VAL:HG13	1:R:297:ALA:CB	2.08	0.83
1:S:499:ASN:O	1:S:503:LEU:HG	1.79	0.83
1:T:373:GLN:O	1:T:383:VAL:N	2.11	0.83
1:W:186:THR:HB	1:W:289:THR:C	2.03	0.83
1:W:386:ILE:CD1	1:W:401:PHE:CE2	2.61	0.83
1:B:360:TYR:CZ	1:B:386:ILE:HD11	2.14	0.83
1:D:121:GLU:OE2	1:I:445:SER:OG	1.95	0.83
1:D:144:THR:HG22	1:D:156:ASP:OD1	1.78	0.83
1:D:463:ARG:HG2	1:D:463:ARG:HH11	1.41	0.83
1:J:293:VAL:HG13	1:J:297:ALA:CB	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:386:ILE:CD1	1:L:401:PHE:CE2	2.62	0.83
1:N:121:GLU:OE2	1:S:445:SER:OG	1.96	0.83
1:N:337:ALA:HB3	1:N:342:TYR:CE2	2.13	0.83
1:O:144:THR:CA	1:O:156:ASP:OD1	2.27	0.83
1:P:186:THR:HB	1:P:289:THR:C	2.03	0.83
1:R:360:TYR:CZ	1:R:386:ILE:HD11	2.14	0.83
1:R:373:GLN:O	1:R:383:VAL:N	2.11	0.83
1:T:386:ILE:CG2	1:T:401:PHE:HE2	1.90	0.83
1:U:162:ILE:O	1:U:162:ILE:HG22	1.78	0.83
1:E:186:THR:CB	1:E:289:THR:O	2.23	0.82
1:F:162:ILE:HG22	1:F:162:ILE:O	1.78	0.82
1:G:373:GLN:O	1:G:383:VAL:N	2.11	0.82
1:H:186:THR:HB	1:H:289:THR:C	2.03	0.82
1:I:121:GLU:OE2	1:N:445:SER:OG	1.96	0.82
1:K:386:ILE:CD1	1:K:401:PHE:CE2	2.61	0.82
1:O:162:ILE:O	1:O:162:ILE:HG22	1.78	0.82
1:P:463:ARG:HG2	1:P:463:ARG:HH11	1.41	0.82
1:Q:386:ILE:CD1	1:Q:401:PHE:CE2	2.62	0.82
1:S:186:THR:HB	1:S:289:THR:C	2.03	0.82
1:S:373:GLN:O	1:S:383:VAL:N	2.11	0.82
1:W:337:ALA:HB3	1:W:342:TYR:CE2	2.13	0.82
1:A:360:TYR:CZ	1:A:386:ILE:HD11	2.14	0.82
1:B:147:VAL:HG21	1:B:155:ILE:HD12	1.61	0.82
1:B:293:VAL:HG13	1:B:297:ALA:CB	2.08	0.82
1:B:327:LYS:NZ	1:G:423:ASP:OD2	2.11	0.82
1:C:178:TYR:CE2	1:C:378:ASP:CB	2.62	0.82
1:D:293:VAL:HG13	1:D:297:ALA:CB	2.08	0.82
1:E:178:TYR:CE2	1:E:378:ASP:CB	2.62	0.82
1:F:337:ALA:HB3	1:F:342:TYR:CE2	2.13	0.82
1:G:293:VAL:HG13	1:G:297:ALA:CB	2.08	0.82
1:H:360:TYR:CZ	1:H:386:ILE:HD11	2.14	0.82
1:H:492:GLN:O	1:H:496:VAL:HG23	1.78	0.82
1:I:144:THR:CA	1:I:156:ASP:OD1	2.27	0.82
1:I:162:ILE:HG22	1:I:162:ILE:O	1.78	0.82
1:I:178:TYR:CE2	1:I:378:ASP:CB	2.63	0.82
1:K:178:TYR:CE2	1:K:378:ASP:CB	2.63	0.82
1:K:337:ALA:HB3	1:K:342:TYR:CE2	2.13	0.82
1:P:386:ILE:HD13	1:P:401:PHE:HE2	1.44	0.82
1:R:144:THR:HG22	1:R:156:ASP:OD1	1.78	0.82
1:S:360:TYR:CZ	1:S:386:ILE:HD11	2.14	0.82
1:T:178:TYR:CE2	1:T:378:ASP:CB	2.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:178:TYR:CE2	1:W:378:ASP:CB	2.62	0.82
1:A:162:ILE:HG22	1:A:162:ILE:O	1.78	0.82
1:B:373:GLN:O	1:B:383:VAL:N	2.11	0.82
1:B:499:ASN:O	1:B:503:LEU:HG	1.78	0.82
1:D:337:ALA:HB3	1:D:342:TYR:CE2	2.13	0.82
1:G:144:THR:CA	1:G:156:ASP:OD1	2.27	0.82
1:K:144:THR:HG22	1:K:156:ASP:OD1	1.78	0.82
1:T:144:THR:HG22	1:T:156:ASP:OD1	1.78	0.82
1:T:337:ALA:HB3	1:T:342:TYR:CE2	2.13	0.82
1:D:186:THR:HB	1:D:289:THR:C	2.03	0.82
1:I:499:ASN:O	1:I:503:LEU:HG	1.79	0.82
1:J:492:GLN:O	1:J:496:VAL:HG23	1.78	0.82
1:K:492:GLN:O	1:K:496:VAL:HG23	1.78	0.82
1:M:186:THR:HB	1:M:289:THR:C	2.03	0.82
1:N:314:ALA:CB	1:N:336:LYS:O	2.28	0.82
1:P:144:THR:HG22	1:P:156:ASP:OD1	1.78	0.82
1:Q:386:ILE:HD13	1:Q:401:PHE:HE2	1.44	0.82
1:S:314:ALA:CB	1:S:336:LYS:O	2.28	0.82
1:T:499:ASN:O	1:T:503:LEU:HG	1.78	0.82
1:W:144:THR:CA	1:W:156:ASP:OD1	2.27	0.82
1:W:492:GLN:O	1:W:496:VAL:HG23	1.78	0.82
1:B:144:THR:CA	1:B:156:ASP:OD1	2.27	0.82
1:B:162:ILE:O	1:B:162:ILE:HG22	1.78	0.82
1:C:162:ILE:HG22	1:C:162:ILE:O	1.78	0.82
1:C:337:ALA:HB3	1:C:342:TYR:CE2	2.13	0.82
1:E:114:GLU:OE2	1:U:43:ASP:OD2	1.96	0.82
1:F:360:TYR:CZ	1:F:386:ILE:HD11	2.14	0.82
1:H:147:VAL:HG21	1:H:155:ILE:HD12	1.61	0.82
1:I:147:VAL:HG21	1:I:155:ILE:HD12	1.61	0.82
1:J:186:THR:HB	1:J:289:THR:C	2.03	0.82
1:L:314:ALA:CB	1:L:336:LYS:O	2.28	0.82
1:M:373:GLN:O	1:M:383:VAL:N	2.11	0.82
1:O:386:ILE:CG2	1:O:401:PHE:HE2	1.90	0.82
1:P:386:ILE:CD1	1:P:401:PHE:CE2	2.62	0.82
1:Q:144:THR:CA	1:Q:156:ASP:OD1	2.27	0.82
1:T:186:THR:HB	1:T:289:THR:C	2.03	0.82
1:T:186:THR:CB	1:T:289:THR:O	2.23	0.82
1:W:360:TYR:CZ	1:W:386:ILE:HD11	2.14	0.82
1:A:314:ALA:CB	1:A:336:LYS:O	2.28	0.82
1:A:337:ALA:HB3	1:A:342:TYR:CE2	2.13	0.82
1:B:186:THR:CB	1:B:289:THR:O	2.23	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:186:THR:HG21	1:B:290:PRO:CA	2.05	0.82
1:C:186:THR:HB	1:C:289:THR:C	2.03	0.82
1:E:499:ASN:O	1:E:503:LEU:HG	1.79	0.82
1:H:337:ALA:HB3	1:H:342:TYR:CE2	2.13	0.82
1:H:401:PHE:HE1	1:H:407:LEU:HD11	1.45	0.82
1:I:314:ALA:CB	1:I:336:LYS:O	2.28	0.82
1:I:360:TYR:CZ	1:I:386:ILE:HD11	2.14	0.82
1:J:360:TYR:CZ	1:J:386:ILE:HD11	2.14	0.82
1:K:186:THR:HB	1:K:289:THR:C	2.03	0.82
1:M:144:THR:CA	1:M:156:ASP:OD1	2.27	0.82
1:M:314:ALA:CB	1:M:336:LYS:O	2.28	0.82
1:N:144:THR:CA	1:N:156:ASP:OD1	2.27	0.82
1:O:178:TYR:CE2	1:O:378:ASP:CB	2.63	0.82
1:U:386:ILE:CD1	1:U:401:PHE:CE2	2.62	0.82
1:C:360:TYR:CZ	1:C:386:ILE:HD11	2.14	0.82
1:D:360:TYR:CZ	1:D:386:ILE:HD11	2.14	0.82
1:E:327:LYS:NZ	1:J:423:ASP:OD2	2.11	0.82
1:F:144:THR:CA	1:F:156:ASP:OD1	2.27	0.82
1:F:147:VAL:HG21	1:F:155:ILE:HD12	1.61	0.82
1:F:186:THR:CB	1:F:289:THR:O	2.23	0.82
1:F:386:ILE:HD13	1:F:401:PHE:HE2	1.44	0.82
1:F:492:GLN:O	1:F:496:VAL:HG23	1.78	0.82
1:G:186:THR:HB	1:G:289:THR:C	2.03	0.82
1:G:314:ALA:CB	1:G:336:LYS:O	2.28	0.82
1:I:173:ASN:HD22	1:I:377:VAL:CG2	1.93	0.82
1:J:162:ILE:O	1:J:162:ILE:HG22	1.78	0.82
1:M:360:TYR:CZ	1:M:386:ILE:HD11	2.14	0.82
1:N:178:TYR:CE2	1:N:378:ASP:CB	2.63	0.82
1:O:186:THR:CB	1:O:289:THR:O	2.23	0.82
1:P:30:ARG:HH21	1:P:41:LYS:HD2	1.45	0.82
1:Q:314:ALA:CB	1:Q:336:LYS:O	2.28	0.82
1:S:178:TYR:CE2	1:S:378:ASP:CB	2.63	0.82
1:U:144:THR:CA	1:U:156:ASP:OD1	2.27	0.82
1:U:178:TYR:CE2	1:U:378:ASP:CB	2.62	0.82
1:U:373:GLN:HB3	1:U:383:VAL:HG23	1.53	0.82
1:B:314:ALA:CB	1:B:336:LYS:O	2.28	0.82
1:C:173:ASN:HD22	1:C:377:VAL:CG2	1.93	0.82
1:C:499:ASN:O	1:C:503:LEU:HG	1.78	0.82
1:E:30:ARG:HH21	1:E:41:LYS:HD2	1.45	0.82
1:E:173:ASN:HD22	1:E:377:VAL:CG2	1.93	0.82
1:E:401:PHE:HE1	1:E:407:LEU:HD11	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:360:TYR:CZ	1:G:386:ILE:HD11	2.14	0.82
1:G:492:GLN:O	1:G:496:VAL:HG23	1.78	0.82
1:J:186:THR:CB	1:J:289:THR:O	2.23	0.82
1:J:401:PHE:HE1	1:J:407:LEU:HD11	1.45	0.82
1:K:30:ARG:HH21	1:K:41:LYS:HD2	1.45	0.82
1:K:144:THR:CA	1:K:156:ASP:OD1	2.27	0.82
1:K:360:TYR:CZ	1:K:386:ILE:HD11	2.14	0.82
1:L:147:VAL:HG21	1:L:155:ILE:HD12	1.61	0.82
1:O:360:TYR:CZ	1:O:386:ILE:HD11	2.14	0.82
1:P:178:TYR:CE2	1:P:378:ASP:CB	2.62	0.82
1:P:314:ALA:CB	1:P:336:LYS:O	2.28	0.82
1:P:360:TYR:CZ	1:P:386:ILE:HD11	2.14	0.82
1:P:401:PHE:HE1	1:P:407:LEU:HD11	1.45	0.82
1:Q:186:THR:HB	1:Q:289:THR:C	2.03	0.82
1:S:147:VAL:HG21	1:S:155:ILE:HD12	1.61	0.82
1:A:144:THR:CA	1:A:156:ASP:OD1	2.27	0.82
1:B:178:TYR:CE2	1:B:378:ASP:CB	2.62	0.82
1:C:314:ALA:CB	1:C:336:LYS:O	2.28	0.82
1:D:173:ASN:HD22	1:D:377:VAL:CG2	1.93	0.82
1:E:360:TYR:CZ	1:E:386:ILE:HD11	2.14	0.82
1:K:173:ASN:HD22	1:K:377:VAL:CG2	1.93	0.82
1:L:173:ASN:HD22	1:L:377:VAL:CG2	1.93	0.82
1:L:178:TYR:CE2	1:L:378:ASP:CB	2.62	0.82
1:M:30:ARG:HH21	1:M:41:LYS:HD2	1.45	0.82
1:M:178:TYR:CE2	1:M:378:ASP:CB	2.62	0.82
1:N:173:ASN:HD22	1:N:377:VAL:CG2	1.93	0.82
1:N:186:THR:HB	1:N:289:THR:C	2.03	0.82
1:N:360:TYR:CZ	1:N:386:ILE:HD11	2.14	0.82
1:O:401:PHE:HE1	1:O:407:LEU:HD11	1.45	0.82
1:Q:144:THR:HG22	1:Q:156:ASP:OD1	1.78	0.82
1:Q:337:ALA:HB3	1:Q:342:TYR:CE2	2.13	0.82
1:U:30:ARG:HH21	1:U:41:LYS:HD2	1.45	0.82
1:U:401:PHE:HE1	1:U:407:LEU:HD11	1.45	0.82
1:A:173:ASN:HD22	1:A:377:VAL:CG2	1.93	0.82
1:A:178:TYR:CE2	1:A:378:ASP:CB	2.63	0.82
1:C:386:ILE:CG2	1:C:401:PHE:HE2	1.90	0.82
1:C:401:PHE:HE1	1:C:407:LEU:HD11	1.45	0.82
1:E:144:THR:CA	1:E:156:ASP:OD1	2.27	0.82
1:J:173:ASN:HD22	1:J:377:VAL:CG2	1.93	0.82
1:J:386:ILE:CG2	1:J:401:PHE:HE2	1.90	0.82
1:O:173:ASN:HD22	1:O:377:VAL:CG2	1.93	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:144:THR:CA	1:R:156:ASP:OD1	2.27	0.82
1:S:173:ASN:HD22	1:S:377:VAL:CG2	1.93	0.82
1:S:386:ILE:CD1	1:S:401:PHE:CE2	2.62	0.82
1:T:173:ASN:HD22	1:T:377:VAL:CG2	1.93	0.82
1:U:147:VAL:HG21	1:U:155:ILE:HD12	1.61	0.82
1:A:386:ILE:HD13	1:A:401:PHE:HE2	1.44	0.81
1:B:386:ILE:CD1	1:B:401:PHE:CE2	2.61	0.81
1:D:161:GLN:O	1:D:166:THR:CG2	2.28	0.81
1:F:173:ASN:HD22	1:F:377:VAL:CG2	1.93	0.81
1:F:373:GLN:HB3	1:F:383:VAL:HG23	1.53	0.81
1:H:173:ASN:HD22	1:H:377:VAL:CG2	1.93	0.81
1:H:314:ALA:CB	1:H:336:LYS:O	2.28	0.81
1:L:144:THR:CA	1:L:156:ASP:OD1	2.27	0.81
1:O:147:VAL:HG21	1:O:155:ILE:HD12	1.61	0.81
1:U:318:LYS:HE3	1:U:330:GLU:CD	2.05	0.81
1:D:314:ALA:CB	1:D:336:LYS:O	2.28	0.81
1:D:499:ASN:O	1:D:503:LEU:HG	1.78	0.81
1:F:30:ARG:HH21	1:F:41:LYS:HD2	1.45	0.81
1:G:401:PHE:HE1	1:G:407:LEU:HD11	1.45	0.81
1:H:161:GLN:O	1:H:166:THR:CG2	2.28	0.81
1:H:386:ILE:CD1	1:H:401:PHE:CE2	2.62	0.81
1:J:161:GLN:O	1:J:166:THR:CG2	2.28	0.81
1:M:121:GLU:OE2	1:R:445:SER:OG	1.96	0.81
1:P:144:THR:CA	1:P:156:ASP:OD1	2.27	0.81
1:Q:360:TYR:CE1	1:Q:386:ILE:HG12	2.16	0.81
1:R:173:ASN:HD22	1:R:377:VAL:CG2	1.93	0.81
1:U:173:ASN:HD22	1:U:377:VAL:CG2	1.93	0.81
1:C:419:LEU:HD13	1:N:151:ASP:OD1	1.77	0.81
1:D:178:TYR:CE2	1:D:378:ASP:CB	2.62	0.81
1:E:162:ILE:O	1:E:162:ILE:HG22	1.77	0.81
1:E:314:ALA:CB	1:E:336:LYS:O	2.28	0.81
1:E:318:LYS:HE3	1:E:330:GLU:CD	2.05	0.81
1:E:386:ILE:HD13	1:E:401:PHE:HE2	1.44	0.81
1:F:401:PHE:HE1	1:F:407:LEU:HD11	1.45	0.81
1:J:30:ARG:HH21	1:J:41:LYS:HD2	1.45	0.81
1:M:327:LYS:NZ	1:R:423:ASP:OD2	2.12	0.81
1:M:386:ILE:CD1	1:M:401:PHE:CE2	2.62	0.81
1:N:161:GLN:O	1:N:166:THR:CG2	2.28	0.81
1:O:314:ALA:CB	1:O:336:LYS:O	2.28	0.81
1:P:173:ASN:HD22	1:P:377:VAL:CG2	1.93	0.81
1:P:318:LYS:HE3	1:P:330:GLU:CD	2.05	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:178:TYR:CE2	1:Q:378:ASP:CB	2.62	0.81
1:R:314:ALA:CB	1:R:336:LYS:O	2.28	0.81
1:S:161:GLN:O	1:S:166:THR:CG2	2.28	0.81
1:T:161:GLN:O	1:T:166:THR:CG2	2.28	0.81
1:T:360:TYR:CZ	1:T:386:ILE:HD11	2.14	0.81
1:U:360:TYR:CZ	1:U:386:ILE:HD11	2.14	0.81
1:W:173:ASN:HD22	1:W:377:VAL:CG2	1.93	0.81
1:W:314:ALA:CB	1:W:336:LYS:O	2.28	0.81
1:W:360:TYR:CE1	1:W:386:ILE:HG12	2.16	0.81
1:W:386:ILE:HD13	1:W:401:PHE:HE2	1.44	0.81
1:B:161:GLN:O	1:B:166:THR:CG2	2.28	0.81
1:D:147:VAL:HG21	1:D:155:ILE:HD12	1.61	0.81
1:E:147:VAL:HG21	1:E:155:ILE:HD12	1.61	0.81
1:F:314:ALA:CB	1:F:336:LYS:O	2.28	0.81
1:H:30:ARG:HH21	1:H:41:LYS:HD2	1.45	0.81
1:J:178:TYR:CE2	1:J:378:ASP:CB	2.62	0.81
1:L:360:TYR:CE1	1:L:386:ILE:HG12	2.16	0.81
1:M:173:ASN:HD22	1:M:377:VAL:CG2	1.93	0.81
1:M:401:PHE:HE1	1:M:407:LEU:HD11	1.45	0.81
1:R:360:TYR:CE1	1:R:386:ILE:HG12	2.16	0.81
1:T:401:PHE:HE1	1:T:407:LEU:HD11	1.45	0.81
1:A:30:ARG:HH21	1:A:41:LYS:HD2	1.45	0.81
1:C:147:VAL:HG21	1:C:155:ILE:HD12	1.61	0.81
1:D:318:LYS:HE3	1:D:330:GLU:CD	2.05	0.81
1:F:386:ILE:CG2	1:F:401:PHE:CE2	2.62	0.81
1:H:178:TYR:CE2	1:H:378:ASP:CB	2.63	0.81
1:I:401:PHE:HE1	1:I:407:LEU:HD11	1.45	0.81
1:J:314:ALA:CB	1:J:336:LYS:O	2.28	0.81
1:M:161:GLN:O	1:M:166:THR:CG2	2.28	0.81
1:P:161:GLN:O	1:P:166:THR:CG2	2.28	0.81
1:Q:173:ASN:HD22	1:Q:377:VAL:CG2	1.93	0.81
1:R:178:TYR:CE2	1:R:378:ASP:CB	2.62	0.81
1:T:147:VAL:HG21	1:T:155:ILE:HD12	1.61	0.81
1:F:178:TYR:CE2	1:F:378:ASP:CB	2.63	0.81
1:I:318:LYS:HE3	1:I:330:GLU:CD	2.05	0.81
1:J:144:THR:CA	1:J:156:ASP:OD1	2.27	0.81
1:P:360:TYR:CE1	1:P:386:ILE:HG12	2.16	0.81
1:U:314:ALA:CB	1:U:336:LYS:O	2.28	0.81
1:U:360:TYR:CE1	1:U:386:ILE:HG12	2.16	0.81
1:D:162:ILE:O	1:D:162:ILE:HG22	1.78	0.81
1:G:386:ILE:HD13	1:G:401:PHE:HE2	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:318:LYS:HE3	1:J:330:GLU:CD	2.05	0.81
1:L:386:ILE:CG2	1:L:401:PHE:CE2	2.62	0.81
1:O:161:GLN:O	1:O:166:THR:CG2	2.28	0.81
1:U:161:GLN:O	1:U:166:THR:CG2	2.28	0.81
1:W:147:VAL:HG21	1:W:155:ILE:HD12	1.61	0.81
1:G:360:TYR:CE1	1:G:386:ILE:HG12	2.16	0.81
1:K:360:TYR:CE1	1:K:386:ILE:HG12	2.16	0.81
1:Q:401:PHE:HE1	1:Q:407:LEU:HD11	1.45	0.81
1:S:401:PHE:HE1	1:S:407:LEU:HD11	1.45	0.81
1:T:314:ALA:CB	1:T:336:LYS:O	2.28	0.81
1:F:360:TYR:CE1	1:F:386:ILE:HG12	2.16	0.81
1:G:161:GLN:O	1:G:166:THR:CG2	2.28	0.81
1:G:173:ASN:HD22	1:G:377:VAL:CG2	1.93	0.81
1:G:186:THR:CB	1:G:289:THR:O	2.23	0.81
1:K:314:ALA:CB	1:K:336:LYS:O	2.28	0.81
1:M:360:TYR:CE1	1:M:386:ILE:HG12	2.16	0.81
1:Q:318:LYS:HE3	1:Q:330:GLU:CD	2.05	0.81
1:R:401:PHE:HE1	1:R:407:LEU:HD11	1.45	0.81
1:B:114:GLU:OE2	1:R:43:ASP:OD2	1.98	0.81
1:B:173:ASN:HD22	1:B:377:VAL:CG2	1.93	0.81
1:E:173:ASN:HD22	1:E:377:VAL:HG21	1.46	0.81
1:G:178:TYR:CE2	1:G:378:ASP:CB	2.62	0.81
1:I:161:GLN:O	1:I:166:THR:CG2	2.28	0.81
1:M:318:LYS:HE3	1:M:330:GLU:CD	2.05	0.81
1:N:401:PHE:HE1	1:N:407:LEU:HD11	1.45	0.81
1:O:30:ARG:HH21	1:O:41:LYS:HD2	1.45	0.81
1:O:386:ILE:HD13	1:O:401:PHE:HE2	1.44	0.81
1:W:30:ARG:HH21	1:W:41:LYS:HD2	1.45	0.81
1:W:386:ILE:CG2	1:W:401:PHE:CE2	2.62	0.81
1:I:30:ARG:HH21	1:I:41:LYS:HD2	1.45	0.80
1:K:314:ALA:HB2	1:K:337:ALA:CA	2.11	0.80
1:K:318:LYS:HE3	1:K:330:GLU:CD	2.05	0.80
1:L:318:LYS:HE3	1:L:330:GLU:CD	2.05	0.80
1:N:318:LYS:HE3	1:N:330:GLU:CD	2.05	0.80
1:Q:360:TYR:CZ	1:Q:386:ILE:HD11	2.14	0.80
1:R:386:ILE:HD13	1:R:401:PHE:HE2	1.44	0.80
1:T:30:ARG:HH21	1:T:41:LYS:HD2	1.45	0.80
1:W:161:GLN:O	1:W:166:THR:CG2	2.28	0.80
1:W:173:ASN:HD22	1:W:377:VAL:HG21	1.46	0.80
1:W:318:LYS:HE3	1:W:330:GLU:CD	2.05	0.80
1:B:318:LYS:HE3	1:B:330:GLU:CD	2.05	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:161:GLN:O	1:E:166:THR:CG2	2.28	0.80
1:K:173:ASN:HD22	1:K:377:VAL:HG21	1.47	0.80
1:K:186:THR:CB	1:K:289:THR:O	2.23	0.80
1:P:173:ASN:HD22	1:P:377:VAL:HG21	1.47	0.80
1:P:314:ALA:HB2	1:P:337:ALA:CA	2.11	0.80
1:T:373:GLN:HB3	1:T:383:VAL:HG23	1.53	0.80
1:U:173:ASN:HD22	1:U:377:VAL:HG21	1.46	0.80
1:A:114:GLU:OE2	1:Q:43:ASP:OD2	1.98	0.80
1:A:161:GLN:O	1:A:166:THR:CG2	2.28	0.80
1:C:161:GLN:O	1:C:166:THR:CG2	2.28	0.80
1:F:321:TYR:CD2	1:F:380:LYS:CE	2.65	0.80
1:G:321:TYR:CD2	1:G:380:LYS:CE	2.65	0.80
1:K:186:THR:HG21	1:K:290:PRO:HA	1.55	0.80
1:M:147:VAL:HG21	1:M:155:ILE:HD12	1.61	0.80
1:N:147:VAL:HG21	1:N:155:ILE:HD12	1.61	0.80
1:N:386:ILE:CD1	1:N:401:PHE:CE2	2.62	0.80
1:Q:30:ARG:HH21	1:Q:41:LYS:HD2	1.45	0.80
1:R:30:ARG:HH21	1:R:41:LYS:HD2	1.45	0.80
1:R:318:LYS:HE3	1:R:330:GLU:CD	2.05	0.80
1:R:386:ILE:CG2	1:R:401:PHE:CE2	2.62	0.80
1:S:318:LYS:HE3	1:S:330:GLU:CD	2.05	0.80
1:S:360:TYR:CE1	1:S:386:ILE:HG12	2.16	0.80
1:T:360:TYR:CE1	1:T:386:ILE:HG12	2.16	0.80
1:A:360:TYR:CE1	1:A:386:ILE:HG12	2.16	0.80
1:B:401:PHE:HE1	1:B:407:LEU:HD11	1.45	0.80
1:J:173:ASN:HD22	1:J:377:VAL:HG21	1.46	0.80
1:K:401:PHE:HE1	1:K:407:LEU:HD11	1.45	0.80
1:N:82:ASN:OD1	1:N:433:ARG:CZ	2.30	0.80
1:O:360:TYR:CE1	1:O:386:ILE:HG12	2.16	0.80
1:U:314:ALA:HB2	1:U:337:ALA:CA	2.11	0.80
1:A:401:PHE:HE1	1:A:407:LEU:HD11	1.45	0.80
1:B:321:TYR:CD2	1:B:380:LYS:CE	2.65	0.80
1:B:386:ILE:CG2	1:B:401:PHE:CE2	2.62	0.80
1:F:173:ASN:HD22	1:F:377:VAL:HG21	1.47	0.80
1:H:321:TYR:CD2	1:H:380:LYS:CE	2.65	0.80
1:I:82:ASN:OD1	1:I:433:ARG:CZ	2.30	0.80
1:J:360:TYR:CE1	1:J:386:ILE:HG12	2.16	0.80
1:Q:173:ASN:HD22	1:Q:377:VAL:HG21	1.47	0.80
1:S:82:ASN:OD1	1:S:433:ARG:CZ	2.30	0.80
1:T:386:ILE:CD1	1:T:401:PHE:CE2	2.62	0.80
1:U:386:ILE:HD13	1:U:401:PHE:HE2	1.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:30:ARG:HH21	1:B:41:LYS:HD2	1.45	0.80
1:C:386:ILE:CD1	1:C:401:PHE:CE2	2.62	0.80
1:F:314:ALA:HB2	1:F:337:ALA:CA	2.11	0.80
1:G:386:ILE:CD1	1:G:401:PHE:CE2	2.61	0.80
1:K:161:GLN:O	1:K:166:THR:CG2	2.28	0.80
1:L:321:TYR:CD2	1:L:380:LYS:CE	2.65	0.80
1:N:360:TYR:CE1	1:N:386:ILE:HG12	2.16	0.80
1:B:360:TYR:CE1	1:B:386:ILE:HG12	2.16	0.80
1:C:318:LYS:HE3	1:C:330:GLU:CD	2.05	0.80
1:E:314:ALA:HB2	1:E:337:ALA:CA	2.11	0.80
1:H:360:TYR:CE1	1:H:386:ILE:HG12	2.16	0.80
1:I:386:ILE:CD1	1:I:401:PHE:CE2	2.61	0.80
1:K:321:TYR:CD2	1:K:380:LYS:CE	2.65	0.80
1:O:82:ASN:OD1	1:O:433:ARG:CZ	2.30	0.80
1:S:314:ALA:HB2	1:S:337:ALA:CA	2.11	0.80
1:T:82:ASN:OD1	1:T:433:ARG:CZ	2.30	0.80
1:A:321:TYR:CD2	1:A:380:LYS:CE	2.65	0.80
1:D:401:PHE:HE1	1:D:407:LEU:HD11	1.45	0.80
1:E:360:TYR:CE1	1:E:386:ILE:HG12	2.16	0.80
1:M:321:TYR:CD2	1:M:380:LYS:CE	2.65	0.80
1:O:173:ASN:HD22	1:O:377:VAL:HG21	1.46	0.80
1:O:318:LYS:HE3	1:O:330:GLU:CD	2.05	0.80
1:Q:161:GLN:O	1:Q:166:THR:CG2	2.28	0.80
1:R:38:ASN:HD22	1:R:41:LYS:HZ1	1.30	0.80
1:R:161:GLN:O	1:R:166:THR:CG2	2.28	0.80
1:W:373:GLN:HB3	1:W:383:VAL:HG23	1.53	0.80
1:A:173:ASN:HD22	1:A:377:VAL:HG21	1.46	0.80
1:C:321:TYR:CD2	1:C:380:LYS:CE	2.65	0.80
1:D:30:ARG:HH21	1:D:41:LYS:HD2	1.45	0.80
1:D:82:ASN:OD1	1:D:433:ARG:CZ	2.30	0.80
1:D:173:ASN:HD22	1:D:377:VAL:HG21	1.46	0.80
1:J:82:ASN:OD1	1:J:433:ARG:CZ	2.30	0.80
1:L:173:ASN:HD22	1:L:377:VAL:HG21	1.46	0.80
1:S:30:ARG:HH21	1:S:41:LYS:HD2	1.45	0.80
1:S:321:TYR:CD2	1:S:380:LYS:CE	2.65	0.80
1:A:318:LYS:HE3	1:A:330:GLU:CD	2.05	0.80
1:C:30:ARG:HH21	1:C:41:LYS:HD2	1.45	0.80
1:I:360:TYR:CE1	1:I:386:ILE:HG12	2.16	0.80
1:L:161:GLN:O	1:L:166:THR:CG2	2.28	0.80
1:D:386:ILE:CG2	1:D:401:PHE:CE2	2.62	0.79
1:F:318:LYS:HE3	1:F:330:GLU:CD	2.05	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:82:ASN:OD1	1:H:433:ARG:CZ	2.30	0.79
1:I:314:ALA:HB2	1:I:337:ALA:CA	2.11	0.79
1:M:82:ASN:OD1	1:M:433:ARG:CZ	2.30	0.79
1:N:30:ARG:HH21	1:N:41:LYS:HD2	1.45	0.79
1:W:321:TYR:CD2	1:W:380:LYS:CE	2.65	0.79
1:F:161:GLN:O	1:F:166:THR:CG2	2.28	0.79
1:J:100:ASN:HD21	1:U:66:ASN:CB	1.95	0.79
1:J:386:ILE:HD13	1:J:401:PHE:HE2	1.44	0.79
1:K:386:ILE:HD13	1:K:401:PHE:HE2	1.44	0.79
1:L:186:THR:CB	1:L:289:THR:O	2.23	0.79
1:N:314:ALA:HB2	1:N:337:ALA:CA	2.11	0.79
1:R:321:TYR:CD2	1:R:380:LYS:CE	2.65	0.79
1:C:186:THR:CB	1:C:289:THR:O	2.23	0.79
1:D:360:TYR:CE1	1:D:386:ILE:HG12	2.16	0.79
1:R:82:ASN:OD1	1:R:433:ARG:CZ	2.30	0.79
1:T:173:ASN:HD22	1:T:377:VAL:HG21	1.46	0.79
1:E:82:ASN:OD1	1:E:433:ARG:CZ	2.30	0.79
1:I:173:ASN:HD22	1:I:377:VAL:HG21	1.46	0.79
1:J:314:ALA:HB2	1:J:337:ALA:CA	2.11	0.79
1:L:30:ARG:HH21	1:L:41:LYS:HD2	1.45	0.79
1:M:306:VAL:HG23	1:M:342:TYR:OH	1.83	0.79
1:M:314:ALA:HB2	1:M:337:ALA:CA	2.11	0.79
1:O:306:VAL:HG23	1:O:342:TYR:OH	1.83	0.79
1:R:314:ALA:HB2	1:R:337:ALA:CA	2.11	0.79
1:S:306:VAL:HG23	1:S:342:TYR:OH	1.83	0.79
1:T:306:VAL:HG23	1:T:342:TYR:OH	1.83	0.79
1:W:401:PHE:HE1	1:W:407:LEU:HD11	1.45	0.79
1:B:82:ASN:OD1	1:B:433:ARG:CZ	2.30	0.79
1:C:82:ASN:OD1	1:C:433:ARG:CZ	2.30	0.79
1:G:173:ASN:HD22	1:G:377:VAL:HG21	1.46	0.79
1:K:100:ASN:HD21	1:W:66:ASN:CB	1.95	0.79
1:R:386:ILE:CD1	1:R:401:PHE:CE2	2.61	0.79
1:T:386:ILE:CG2	1:T:401:PHE:CE2	2.62	0.79
1:W:306:VAL:HG23	1:W:342:TYR:OH	1.83	0.79
1:C:360:TYR:CE1	1:C:386:ILE:HG12	2.16	0.79
1:G:318:LYS:HE3	1:G:330:GLU:CD	2.05	0.79
1:H:318:LYS:HE3	1:H:330:GLU:CD	2.05	0.79
1:J:306:VAL:HG23	1:J:342:TYR:OH	1.83	0.79
1:L:401:PHE:HE1	1:L:407:LEU:HD11	1.45	0.79
1:P:306:VAL:HG23	1:P:342:TYR:OH	1.83	0.79
1:P:321:TYR:CD2	1:P:380:LYS:CE	2.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:173:ASN:HD22	1:R:377:VAL:HG21	1.47	0.79
1:T:314:ALA:HB2	1:T:337:ALA:CA	2.11	0.79
1:W:82:ASN:OD1	1:W:433:ARG:CZ	2.30	0.79
1:C:107:ASP:OD2	1:S:49:ILE:HG13	1.83	0.79
1:C:306:VAL:HG23	1:C:342:TYR:OH	1.83	0.79
1:D:306:VAL:HG23	1:D:342:TYR:OH	1.83	0.79
1:E:306:VAL:HG23	1:E:342:TYR:OH	1.83	0.79
1:G:306:VAL:HG23	1:G:342:TYR:OH	1.83	0.79
1:H:314:ALA:HB2	1:H:337:ALA:CA	2.11	0.79
1:O:321:TYR:CD2	1:O:380:LYS:CE	2.65	0.79
1:Q:82:ASN:OD1	1:Q:433:ARG:CZ	2.30	0.79
1:Q:321:TYR:CD2	1:Q:380:LYS:CE	2.65	0.79
1:T:318:LYS:HE3	1:T:330:GLU:CD	2.05	0.79
1:A:306:VAL:HG23	1:A:342:TYR:OH	1.83	0.79
1:D:400:ASP:OD1	1:D:403:ALA:N	2.16	0.79
1:I:100:ASN:HD21	1:T:66:ASN:CB	1.94	0.79
1:K:306:VAL:HG23	1:K:342:TYR:OH	1.83	0.79
1:T:321:TYR:CD2	1:T:380:LYS:CE	2.65	0.79
1:B:173:ASN:HD22	1:B:377:VAL:HG21	1.47	0.79
1:C:173:ASN:HD22	1:C:377:VAL:HG21	1.46	0.79
1:D:386:ILE:HD13	1:D:401:PHE:HE2	1.44	0.79
1:G:400:ASP:OD1	1:G:403:ALA:N	2.16	0.79
1:N:173:ASN:HD22	1:N:377:VAL:HG21	1.47	0.79
1:U:82:ASN:OD1	1:U:433:ARG:CZ	2.30	0.79
1:A:82:ASN:OD1	1:A:433:ARG:CZ	2.30	0.79
1:A:100:ASN:HD21	1:L:66:ASN:CB	1.96	0.79
1:E:400:ASP:OD1	1:E:403:ALA:N	2.16	0.79
1:F:100:ASN:HD21	1:Q:66:ASN:CB	1.96	0.79
1:H:100:ASN:HD21	1:S:66:ASN:CB	1.95	0.79
1:H:173:ASN:HD22	1:H:377:VAL:HG21	1.46	0.79
1:H:306:VAL:HG23	1:H:342:TYR:OH	1.83	0.79
1:M:173:ASN:HD22	1:M:377:VAL:HG21	1.47	0.79
1:N:321:TYR:CD2	1:N:380:LYS:CE	2.65	0.79
1:B:386:ILE:HD13	1:B:401:PHE:HE2	1.44	0.78
1:E:321:TYR:CD2	1:E:380:LYS:CE	2.65	0.78
1:F:400:ASP:OD1	1:F:403:ALA:N	2.16	0.78
1:G:100:ASN:HD21	1:R:66:ASN:CB	1.96	0.78
1:H:186:THR:CB	1:H:289:THR:O	2.23	0.78
1:H:386:ILE:HD13	1:H:401:PHE:HE2	1.44	0.78
1:J:400:ASP:OD1	1:J:403:ALA:N	2.16	0.78
1:L:400:ASP:OD1	1:L:403:ALA:N	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:82:ASN:OD1	1:P:433:ARG:CZ	2.30	0.78
1:S:173:ASN:HD22	1:S:377:VAL:HG21	1.47	0.78
1:A:400:ASP:OD1	1:A:403:ALA:N	2.16	0.78
1:B:100:ASN:HD21	1:M:66:ASN:CB	1.95	0.78
1:C:100:ASN:HD21	1:N:66:ASN:CB	1.95	0.78
1:J:321:TYR:CD2	1:J:380:LYS:CE	2.65	0.78
1:K:400:ASP:OD1	1:K:403:ALA:N	2.16	0.78
1:O:314:ALA:HB2	1:O:337:ALA:CA	2.11	0.78
1:Q:306:VAL:HG23	1:Q:342:TYR:OH	1.83	0.78
1:B:314:ALA:HB2	1:B:337:ALA:CA	2.11	0.78
1:C:314:ALA:HB2	1:C:337:ALA:CA	2.11	0.78
1:F:82:ASN:OD1	1:F:433:ARG:CZ	2.30	0.78
1:G:314:ALA:HB2	1:G:337:ALA:CA	2.11	0.78
1:I:386:ILE:HD13	1:I:401:PHE:HE2	1.44	0.78
1:L:82:ASN:OD1	1:L:433:ARG:CZ	2.30	0.78
1:L:314:ALA:HB2	1:L:337:ALA:CA	2.11	0.78
1:L:386:ILE:HD13	1:L:401:PHE:HE2	1.44	0.78
1:F:13:THR:HG23	1:F:490:LEU:HD13	1.65	0.78
1:G:30:ARG:HH21	1:G:41:LYS:HD2	1.45	0.78
1:G:82:ASN:OD1	1:G:433:ARG:CZ	2.30	0.78
1:K:82:ASN:OD1	1:K:433:ARG:CZ	2.30	0.78
1:D:321:TYR:CD2	1:D:380:LYS:CE	2.65	0.78
1:I:321:TYR:CD2	1:I:380:LYS:CE	2.65	0.78
1:K:13:THR:HG23	1:K:490:LEU:HD13	1.65	0.78
1:R:306:VAL:HG23	1:R:342:TYR:OH	1.83	0.78
1:R:400:ASP:OD1	1:R:403:ALA:N	2.16	0.78
1:C:13:THR:HG23	1:C:490:LEU:HD13	1.65	0.78
1:I:306:VAL:HG23	1:I:342:TYR:OH	1.83	0.78
1:U:321:TYR:CD2	1:U:380:LYS:CE	2.65	0.78
1:A:13:THR:HG23	1:A:490:LEU:HD13	1.65	0.78
1:I:373:GLN:HB3	1:I:383:VAL:HG23	1.53	0.78
1:M:186:THR:CB	1:M:289:THR:O	2.23	0.78
1:N:386:ILE:HD13	1:N:401:PHE:HE2	1.44	0.78
1:O:400:ASP:OD1	1:O:403:ALA:N	2.16	0.78
1:F:306:VAL:HG23	1:F:342:TYR:OH	1.83	0.78
1:Q:400:ASP:OD1	1:Q:403:ALA:N	2.16	0.78
1:W:13:THR:HG23	1:W:490:LEU:HD13	1.65	0.78
1:W:81:LEU:CD1	1:W:432:LEU:CD2	2.60	0.78
1:B:306:VAL:HG23	1:B:342:TYR:OH	1.83	0.78
1:H:13:THR:HG23	1:H:490:LEU:HD13	1.65	0.78
1:I:13:THR:HG23	1:I:490:LEU:HD13	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:13:THR:HG23	1:N:490:LEU:HD13	1.65	0.78
1:N:306:VAL:HG23	1:N:342:TYR:OH	1.83	0.78
1:P:400:ASP:OD1	1:P:403:ALA:N	2.16	0.78
1:Q:13:THR:HG23	1:Q:490:LEU:HD13	1.65	0.78
1:Q:314:ALA:HB2	1:Q:337:ALA:CA	2.11	0.78
1:T:13:THR:HG23	1:T:490:LEU:HD13	1.65	0.78
1:U:400:ASP:OD1	1:U:403:ALA:N	2.16	0.78
1:L:306:VAL:HG23	1:L:342:TYR:OH	1.83	0.77
1:P:13:THR:HG23	1:P:490:LEU:HD13	1.65	0.77
1:S:13:THR:HG23	1:S:490:LEU:HD13	1.65	0.77
1:D:13:THR:HG23	1:D:490:LEU:HD13	1.65	0.77
1:L:13:THR:HG23	1:L:490:LEU:HD13	1.65	0.77
1:L:81:LEU:CD1	1:L:432:LEU:CD2	2.60	0.77
1:U:306:VAL:HG23	1:U:342:TYR:OH	1.83	0.77
1:W:314:ALA:HB2	1:W:337:ALA:CA	2.11	0.77
1:D:107:ASP:OD2	1:T:49:ILE:HG13	1.84	0.77
1:E:13:THR:HG23	1:E:490:LEU:HD13	1.65	0.77
1:E:107:ASP:OD2	1:U:49:ILE:HG13	1.84	0.77
1:M:386:ILE:HD13	1:M:401:PHE:HE2	1.44	0.77
1:L:173:ASN:ND2	1:L:377:VAL:CG2	2.48	0.77
1:R:13:THR:HG23	1:R:490:LEU:HD13	1.65	0.77
1:R:186:THR:CB	1:R:289:THR:O	2.23	0.77
1:W:400:ASP:OD1	1:W:403:ALA:N	2.16	0.77
1:A:173:ASN:ND2	1:A:377:VAL:CG2	2.48	0.77
1:O:13:THR:HG23	1:O:490:LEU:HD13	1.65	0.77
1:Q:81:LEU:CD1	1:Q:432:LEU:CD2	2.60	0.77
1:R:173:ASN:ND2	1:R:377:VAL:CG2	2.48	0.77
1:A:81:LEU:CD1	1:A:432:LEU:CD2	2.60	0.77
1:D:314:ALA:HB2	1:D:337:ALA:CA	2.11	0.77
1:E:100:ASN:HD21	1:P:66:ASN:CB	1.97	0.77
1:E:386:ILE:CG2	1:E:401:PHE:CE2	2.62	0.77
1:S:373:GLN:HB2	1:S:383:VAL:O	1.85	0.77
1:A:386:ILE:CG2	1:A:401:PHE:CE2	2.62	0.77
1:F:173:ASN:ND2	1:F:377:VAL:CG2	2.48	0.77
1:T:173:ASN:ND2	1:T:377:VAL:CG2	2.48	0.77
1:W:173:ASN:ND2	1:W:377:VAL:CG2	2.48	0.77
1:D:100:ASN:HD21	1:O:66:ASN:CB	1.95	0.77
1:G:13:THR:HG23	1:G:490:LEU:HD13	1.65	0.77
1:K:386:ILE:CG2	1:K:401:PHE:CE2	2.62	0.77
1:M:13:THR:HG23	1:M:490:LEU:HD13	1.65	0.77
1:O:173:ASN:ND2	1:O:377:VAL:CG2	2.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:386:ILE:HD13	1:S:401:PHE:HE2	1.44	0.77
1:T:400:ASP:OD1	1:T:403:ALA:N	2.16	0.77
1:U:173:ASN:ND2	1:U:377:VAL:CG2	2.48	0.77
1:E:173:ASN:ND2	1:E:377:VAL:CG2	2.48	0.77
1:H:173:ASN:ND2	1:H:377:VAL:CG2	2.48	0.77
1:P:173:ASN:ND2	1:P:377:VAL:CG2	2.48	0.77
1:U:13:THR:HG23	1:U:490:LEU:HD13	1.65	0.77
1:I:173:ASN:ND2	1:I:377:VAL:CG2	2.48	0.76
1:P:81:LEU:CD1	1:P:432:LEU:CD2	2.60	0.76
1:T:373:GLN:HB2	1:T:383:VAL:O	1.85	0.76
1:T:386:ILE:HD13	1:T:401:PHE:HE2	1.44	0.76
1:N:373:GLN:HB2	1:N:383:VAL:O	1.85	0.76
1:G:81:LEU:CD1	1:G:432:LEU:CD2	2.60	0.76
1:J:13:THR:HG23	1:J:490:LEU:HD13	1.65	0.76
1:M:373:GLN:HB2	1:M:383:VAL:O	1.85	0.76
1:N:173:ASN:ND2	1:N:377:VAL:CG2	2.48	0.76
1:Q:386:ILE:CG2	1:Q:401:PHE:CE2	2.62	0.76
1:R:373:GLN:HB2	1:R:383:VAL:O	1.85	0.76
1:B:173:ASN:ND2	1:B:377:VAL:CG2	2.48	0.76
1:G:173:ASN:ND2	1:G:377:VAL:CG2	2.48	0.76
1:L:306:VAL:CG1	1:L:307:ASP:H	1.94	0.76
1:A:314:ALA:HB2	1:A:337:ALA:CA	2.11	0.76
1:E:81:LEU:CD1	1:E:432:LEU:CD2	2.60	0.76
1:F:107:ASP:OD2	1:W:49:ILE:HG13	1.84	0.76
1:J:173:ASN:ND2	1:J:377:VAL:CG2	2.48	0.76
1:O:373:GLN:HB2	1:O:383:VAL:O	1.85	0.76
1:A:360:TYR:CE1	1:A:386:ILE:CD1	2.69	0.76
1:G:386:ILE:CG2	1:G:401:PHE:CE2	2.62	0.76
1:H:373:GLN:HB2	1:H:383:VAL:O	1.85	0.76
1:Q:173:ASN:ND2	1:Q:377:VAL:CG2	2.48	0.76
1:R:360:TYR:CE1	1:R:386:ILE:CD1	2.69	0.76
1:S:173:ASN:ND2	1:S:377:VAL:CG2	2.48	0.76
1:B:13:THR:HG23	1:B:490:LEU:HD13	1.65	0.76
1:B:373:GLN:HB2	1:B:383:VAL:O	1.85	0.76
1:C:360:TYR:CE1	1:C:386:ILE:CD1	2.69	0.76
1:D:173:ASN:ND2	1:D:377:VAL:CG2	2.48	0.76
1:E:373:GLN:HB2	1:E:383:VAL:O	1.85	0.76
1:G:373:GLN:HB2	1:G:383:VAL:O	1.85	0.76
1:I:373:GLN:HB2	1:I:383:VAL:O	1.85	0.76
1:P:373:GLN:HB2	1:P:383:VAL:O	1.85	0.76
1:T:145:ILE:CG2	1:T:147:VAL:HG23	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:306:VAL:CG1	1:T:307:ASP:H	1.94	0.76
1:C:173:ASN:ND2	1:C:377:VAL:CG2	2.48	0.76
1:I:360:TYR:CE1	1:I:386:ILE:CD1	2.69	0.76
1:K:81:LEU:CD1	1:K:432:LEU:CD2	2.60	0.76
1:M:360:TYR:CE1	1:M:386:ILE:CD1	2.69	0.76
1:A:145:ILE:CG2	1:A:147:VAL:HG23	2.16	0.76
1:C:173:ASN:HD22	1:C:411:ALA:HB3	1.50	0.76
1:F:360:TYR:CE1	1:F:386:ILE:CD1	2.69	0.76
1:H:360:TYR:CE1	1:H:386:ILE:CD1	2.69	0.76
1:N:360:TYR:CE1	1:N:386:ILE:CD1	2.69	0.76
1:A:419:LEU:CB	1:L:151:ASP:OD1	2.34	0.76
1:C:373:GLN:HB2	1:C:383:VAL:O	1.85	0.76
1:H:145:ILE:CG2	1:H:147:VAL:HG23	2.16	0.76
1:J:373:GLN:HB2	1:J:383:VAL:O	1.85	0.76
1:M:145:ILE:CG2	1:M:147:VAL:HG23	2.16	0.76
1:Q:145:ILE:CG2	1:Q:147:VAL:HG23	2.16	0.76
1:R:81:LEU:CD1	1:R:432:LEU:CD2	2.60	0.76
1:U:373:GLN:HB2	1:U:383:VAL:O	1.85	0.76
1:D:373:GLN:HB2	1:D:383:VAL:O	1.85	0.75
1:L:145:ILE:CG2	1:L:147:VAL:HG23	2.16	0.75
1:N:173:ASN:HD22	1:N:411:ALA:HB3	1.50	0.75
1:Q:360:TYR:CE1	1:Q:386:ILE:CD1	2.69	0.75
1:S:315:GLU:OE1	1:S:315:GLU:N	2.19	0.75
1:S:360:TYR:CE1	1:S:386:ILE:CD1	2.69	0.75
1:U:364:ASP:CG	1:U:402:LYS:HZ1	1.94	0.75
1:W:145:ILE:CG2	1:W:147:VAL:HG23	2.16	0.75
1:B:107:ASP:OD2	1:R:49:ILE:HG13	1.86	0.75
1:C:145:ILE:CG2	1:C:147:VAL:HG23	2.16	0.75
1:F:373:GLN:HB2	1:F:383:VAL:O	1.85	0.75
1:O:145:ILE:CG2	1:O:147:VAL:HG23	2.16	0.75
1:B:360:TYR:CE1	1:B:386:ILE:CD1	2.69	0.75
1:B:374:LEU:HA	1:B:381:THR:O	1.87	0.75
1:D:145:ILE:CG2	1:D:147:VAL:HG23	2.16	0.75
1:D:360:TYR:CE1	1:D:386:ILE:CD1	2.69	0.75
1:F:145:ILE:CG2	1:F:147:VAL:HG23	2.16	0.75
1:G:374:LEU:HA	1:G:381:THR:O	1.87	0.75
1:L:360:TYR:CE1	1:L:386:ILE:CD1	2.69	0.75
1:O:360:TYR:CE1	1:O:386:ILE:CD1	2.69	0.75
1:T:315:GLU:N	1:T:315:GLU:OE1	2.19	0.75
1:T:360:TYR:CE1	1:T:386:ILE:CD1	2.69	0.75
1:W:360:TYR:CE1	1:W:386:ILE:CD1	2.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:173:ASN:HD22	1:B:411:ALA:HB3	1.50	0.75
1:B:419:LEU:CB	1:M:151:ASP:OD1	2.34	0.75
1:G:360:TYR:CE1	1:G:386:ILE:CD1	2.69	0.75
1:I:145:ILE:CG2	1:I:147:VAL:HG23	2.16	0.75
1:L:373:GLN:HB2	1:L:383:VAL:O	1.85	0.75
1:N:315:GLU:OE1	1:N:315:GLU:N	2.19	0.75
1:R:145:ILE:CG2	1:R:147:VAL:HG23	2.16	0.75
1:R:374:LEU:HA	1:R:381:THR:O	1.87	0.75
1:D:374:LEU:HA	1:D:381:THR:O	1.87	0.75
1:J:360:TYR:CE1	1:J:386:ILE:CD1	2.69	0.75
1:K:360:TYR:CE1	1:K:386:ILE:CD1	2.69	0.75
1:M:173:ASN:ND2	1:M:377:VAL:CG2	2.48	0.75
1:M:315:GLU:OE1	1:M:315:GLU:N	2.19	0.75
1:R:315:GLU:OE1	1:R:315:GLU:N	2.19	0.75
1:W:373:GLN:HB2	1:W:383:VAL:O	1.85	0.75
1:C:386:ILE:HD13	1:C:401:PHE:HE2	1.44	0.75
1:F:374:LEU:HA	1:F:381:THR:O	1.87	0.75
1:K:173:ASN:ND2	1:K:377:VAL:CG2	2.48	0.75
1:M:53:PHE:CD1	1:M:457:LEU:HD22	2.22	0.75
1:N:53:PHE:CD1	1:N:457:LEU:HD22	2.22	0.75
1:N:374:LEU:HA	1:N:381:THR:O	1.87	0.75
1:Q:373:GLN:HB2	1:Q:383:VAL:O	1.85	0.75
1:S:145:ILE:CG2	1:S:147:VAL:HG23	2.16	0.75
1:S:400:ASP:OD1	1:S:403:ALA:N	2.16	0.75
1:U:374:LEU:HA	1:U:381:THR:O	1.87	0.75
1:A:53:PHE:CD1	1:A:457:LEU:HD22	2.22	0.75
1:C:53:PHE:CD1	1:C:457:LEU:HD22	2.22	0.75
1:E:360:TYR:CE1	1:E:386:ILE:CD1	2.69	0.75
1:J:145:ILE:CG2	1:J:147:VAL:HG23	2.16	0.75
1:J:374:LEU:HA	1:J:381:THR:O	1.87	0.75
1:O:315:GLU:OE1	1:O:315:GLU:N	2.19	0.75
1:S:374:LEU:HA	1:S:381:THR:O	1.87	0.75
1:U:81:LEU:CD1	1:U:432:LEU:CD2	2.60	0.75
1:B:53:PHE:CD1	1:B:457:LEU:HD22	2.22	0.75
1:G:145:ILE:CG2	1:G:147:VAL:HG23	2.16	0.75
1:H:315:GLU:OE1	1:H:315:GLU:N	2.19	0.75
1:K:148:GLY:C	1:K:153:GLU:OE1	2.30	0.75
1:K:374:LEU:HA	1:K:381:THR:O	1.87	0.75
1:L:53:PHE:CD1	1:L:457:LEU:HD22	2.22	0.75
1:M:173:ASN:HD22	1:M:411:ALA:HB3	1.50	0.75
1:M:321:TYR:CZ	1:M:380:LYS:HG2	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:400:ASP:OD1	1:N:403:ALA:N	2.16	0.75
1:O:374:LEU:HA	1:O:381:THR:O	1.87	0.75
1:P:374:LEU:HA	1:P:381:THR:O	1.87	0.75
1:R:45:ALA:HA	1:R:49:ILE:HD13	1.69	0.75
1:U:360:TYR:CE1	1:U:386:ILE:CD1	2.69	0.75
1:B:145:ILE:CG2	1:B:147:VAL:HG23	2.16	0.75
1:M:81:LEU:CD1	1:M:432:LEU:CD2	2.60	0.75
1:Q:148:GLY:C	1:Q:153:GLU:OE1	2.30	0.75
1:W:374:LEU:HA	1:W:381:THR:O	1.87	0.75
1:B:45:ALA:HA	1:B:49:ILE:HD13	1.69	0.74
1:C:374:LEU:HA	1:C:381:THR:O	1.87	0.74
1:C:386:ILE:CG2	1:C:401:PHE:CE2	2.62	0.74
1:E:145:ILE:CG2	1:E:147:VAL:HG23	2.16	0.74
1:E:148:GLY:C	1:E:153:GLU:OE1	2.30	0.74
1:H:144:THR:HG22	1:H:156:ASP:CG	2.12	0.74
1:I:315:GLU:N	1:I:315:GLU:OE1	2.19	0.74
1:I:374:LEU:HA	1:I:381:THR:O	1.87	0.74
1:K:53:PHE:CD1	1:K:457:LEU:HD22	2.22	0.74
1:K:145:ILE:CG2	1:K:147:VAL:HG23	2.16	0.74
1:K:373:GLN:HB2	1:K:383:VAL:O	1.85	0.74
1:L:374:LEU:HA	1:L:381:THR:O	1.87	0.74
1:M:45:ALA:HA	1:M:49:ILE:HD13	1.69	0.74
1:A:107:ASP:OD2	1:Q:49:ILE:HG13	1.86	0.74
1:A:373:GLN:HB2	1:A:383:VAL:O	1.85	0.74
1:C:360:TYR:CE2	1:C:386:ILE:HD11	2.23	0.74
1:D:179:ASP:O	1:D:322:THR:N	2.19	0.74
1:G:45:ALA:HA	1:G:49:ILE:HD13	1.69	0.74
1:G:144:THR:HG22	1:G:156:ASP:CG	2.12	0.74
1:G:321:TYR:CZ	1:G:380:LYS:HG2	2.22	0.74
1:H:400:ASP:OD1	1:H:403:ALA:N	2.16	0.74
1:O:306:VAL:CG1	1:O:307:ASP:H	1.94	0.74
1:W:315:GLU:OE1	1:W:315:GLU:N	2.19	0.74
1:A:179:ASP:O	1:A:322:THR:N	2.19	0.74
1:F:148:GLY:C	1:F:153:GLU:OE1	2.30	0.74
1:G:360:TYR:CE2	1:G:386:ILE:HD11	2.23	0.74
1:H:45:ALA:HA	1:H:49:ILE:HD13	1.69	0.74
1:J:81:LEU:CD1	1:J:432:LEU:CD2	2.60	0.74
1:J:321:TYR:CZ	1:J:380:LYS:HG2	2.22	0.74
1:M:360:TYR:CE2	1:M:386:ILE:HD11	2.23	0.74
1:M:386:ILE:CG2	1:M:401:PHE:CE2	2.62	0.74
1:Q:53:PHE:CD1	1:Q:457:LEU:HD22	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:360:TYR:CE2	1:S:386:ILE:HD11	2.23	0.74
1:U:321:TYR:CZ	1:U:380:LYS:HG2	2.22	0.74
1:A:360:TYR:CE2	1:A:386:ILE:HD11	2.23	0.74
1:E:315:GLU:OE1	1:E:315:GLU:N	2.19	0.74
1:J:53:PHE:CD1	1:J:457:LEU:HD22	2.22	0.74
1:K:315:GLU:OE1	1:K:315:GLU:N	2.19	0.74
1:N:145:ILE:CG2	1:N:147:VAL:HG23	2.16	0.74
1:O:364:ASP:CG	1:O:402:LYS:HZ1	1.96	0.74
1:S:144:THR:HG22	1:S:156:ASP:CG	2.12	0.74
1:U:53:PHE:CD1	1:U:457:LEU:HD22	2.22	0.74
1:W:53:PHE:CD1	1:W:457:LEU:HD22	2.22	0.74
1:B:400:ASP:OD1	1:B:403:ALA:N	2.16	0.74
1:D:321:TYR:CZ	1:D:380:LYS:HG2	2.22	0.74
1:G:315:GLU:OE1	1:G:315:GLU:N	2.19	0.74
1:I:400:ASP:OD1	1:I:403:ALA:N	2.16	0.74
1:J:315:GLU:OE1	1:J:315:GLU:N	2.19	0.74
1:L:321:TYR:CZ	1:L:380:LYS:HG2	2.22	0.74
1:M:374:LEU:HA	1:M:381:THR:O	1.87	0.74
1:N:321:TYR:CZ	1:N:380:LYS:HG2	2.22	0.74
1:B:81:LEU:CD1	1:B:432:LEU:CD2	2.60	0.74
1:C:400:ASP:OD1	1:C:403:ALA:N	2.16	0.74
1:D:53:PHE:CD1	1:D:457:LEU:HD22	2.22	0.74
1:D:315:GLU:N	1:D:315:GLU:OE1	2.19	0.74
1:F:53:PHE:CD1	1:F:457:LEU:HD22	2.22	0.74
1:I:360:TYR:CE2	1:I:386:ILE:HD11	2.23	0.74
1:J:144:THR:HG22	1:J:156:ASP:CG	2.12	0.74
1:J:360:TYR:CE2	1:J:386:ILE:HD11	2.23	0.74
1:K:321:TYR:CZ	1:K:380:LYS:HG2	2.22	0.74
1:L:45:ALA:HA	1:L:49:ILE:HD13	1.69	0.74
1:L:148:GLY:C	1:L:153:GLU:OE1	2.30	0.74
1:M:400:ASP:OD1	1:M:403:ALA:N	2.16	0.74
1:P:360:TYR:CE1	1:P:386:ILE:CD1	2.69	0.74
1:R:144:THR:HG22	1:R:156:ASP:CG	2.12	0.74
1:U:315:GLU:OE1	1:U:315:GLU:N	2.20	0.74
1:B:179:ASP:O	1:B:322:THR:N	2.19	0.74
1:B:315:GLU:OE1	1:B:315:GLU:N	2.19	0.74
1:C:45:ALA:HA	1:C:49:ILE:HD13	1.69	0.74
1:C:315:GLU:OE1	1:C:315:GLU:N	2.20	0.74
1:C:419:LEU:CB	1:N:151:ASP:OD1	2.36	0.74
1:E:321:TYR:CZ	1:E:380:LYS:HG2	2.22	0.74
1:F:321:TYR:CZ	1:F:380:LYS:HG2	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:53:PHE:CD1	1:H:457:LEU:HD22	2.22	0.74
1:I:386:ILE:CG2	1:I:401:PHE:CE2	2.62	0.74
1:L:144:THR:HG22	1:L:156:ASP:CG	2.12	0.74
1:P:53:PHE:CD1	1:P:457:LEU:HD22	2.22	0.74
1:P:145:ILE:CG2	1:P:147:VAL:HG23	2.16	0.74
1:P:148:GLY:C	1:P:153:GLU:OE1	2.30	0.74
1:P:315:GLU:OE1	1:P:315:GLU:N	2.19	0.74
1:P:360:TYR:CE2	1:P:386:ILE:HD11	2.23	0.74
1:A:315:GLU:N	1:A:315:GLU:OE1	2.19	0.74
1:A:374:LEU:HA	1:A:381:THR:O	1.87	0.74
1:B:321:TYR:CZ	1:B:380:LYS:HG2	2.22	0.74
1:C:321:TYR:CZ	1:C:380:LYS:HG2	2.22	0.74
1:F:144:THR:HG22	1:F:156:ASP:CG	2.12	0.74
1:H:321:TYR:CZ	1:H:380:LYS:HG2	2.22	0.74
1:I:144:THR:HG22	1:I:156:ASP:CG	2.12	0.74
1:J:148:GLY:C	1:J:153:GLU:OE1	2.30	0.74
1:J:179:ASP:O	1:J:322:THR:N	2.19	0.74
1:M:144:THR:HG22	1:M:156:ASP:CG	2.12	0.74
1:P:144:THR:HG22	1:P:156:ASP:CG	2.12	0.74
1:R:53:PHE:CD1	1:R:457:LEU:HD22	2.22	0.74
1:A:144:THR:HG22	1:A:156:ASP:CG	2.12	0.74
1:L:315:GLU:N	1:L:315:GLU:OE1	2.19	0.74
1:O:53:PHE:CD1	1:O:457:LEU:HD22	2.22	0.74
1:Q:45:ALA:HA	1:Q:49:ILE:HD13	1.69	0.74
1:Q:360:TYR:CE2	1:Q:386:ILE:HD11	2.23	0.74
1:S:321:TYR:CZ	1:S:380:LYS:HG2	2.22	0.74
1:T:321:TYR:CZ	1:T:380:LYS:HG2	2.22	0.74
1:U:145:ILE:CG2	1:U:147:VAL:HG23	2.16	0.74
1:U:148:GLY:C	1:U:153:GLU:OE1	2.30	0.74
1:W:148:GLY:C	1:W:153:GLU:OE1	2.30	0.74
1:D:360:TYR:CE2	1:D:386:ILE:HD11	2.23	0.74
1:H:374:LEU:HA	1:H:381:THR:O	1.87	0.74
1:Q:144:THR:HG22	1:Q:156:ASP:CG	2.12	0.74
1:R:148:GLY:C	1:R:153:GLU:OE1	2.30	0.74
1:S:45:ALA:HA	1:S:49:ILE:HD13	1.69	0.74
1:S:53:PHE:CD1	1:S:457:LEU:HD22	2.22	0.74
1:T:179:ASP:O	1:T:322:THR:N	2.19	0.74
1:T:374:LEU:HA	1:T:381:THR:O	1.87	0.74
1:U:360:TYR:CE2	1:U:386:ILE:HD11	2.23	0.74
1:W:45:ALA:HA	1:W:49:ILE:HD13	1.69	0.74
1:B:496:VAL:HB	1:B:497:PRO:HD3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:173:ASN:HD22	1:D:411:ALA:HB3	1.50	0.73
1:E:374:LEU:HA	1:E:381:THR:O	1.87	0.73
1:K:360:TYR:CE2	1:K:386:ILE:HD11	2.23	0.73
1:O:45:ALA:HA	1:O:49:ILE:HD13	1.69	0.73
1:O:321:TYR:CZ	1:O:380:LYS:HG2	2.22	0.73
1:P:321:TYR:CZ	1:P:380:LYS:HG2	2.22	0.73
1:Q:374:LEU:HA	1:Q:381:THR:O	1.87	0.73
1:S:148:GLY:C	1:S:153:GLU:OE1	2.30	0.73
1:S:386:ILE:CG2	1:S:401:PHE:CE2	2.62	0.73
1:U:45:ALA:HA	1:U:49:ILE:HD13	1.69	0.73
1:A:53:PHE:HD1	1:A:457:LEU:HD22	1.54	0.73
1:A:432:LEU:HD23	1:A:432:LEU:C	2.14	0.73
1:C:148:GLY:C	1:C:153:GLU:OE1	2.30	0.73
1:E:53:PHE:CD1	1:E:457:LEU:HD22	2.22	0.73
1:G:53:PHE:CD1	1:G:457:LEU:HD22	2.22	0.73
1:M:496:VAL:HB	1:M:497:PRO:HD3	1.70	0.73
1:O:173:ASN:HD22	1:O:411:ALA:HB3	1.50	0.73
1:R:321:TYR:CZ	1:R:380:LYS:HG2	2.22	0.73
1:T:45:ALA:HA	1:T:49:ILE:HD13	1.70	0.73
1:W:321:TYR:CZ	1:W:380:LYS:HG2	2.22	0.73
1:A:321:TYR:CZ	1:A:380:LYS:HG2	2.22	0.73
1:C:53:PHE:HD1	1:C:457:LEU:HD22	1.53	0.73
1:F:53:PHE:HD1	1:F:457:LEU:HD22	1.54	0.73
1:F:315:GLU:OE1	1:F:315:GLU:N	2.19	0.73
1:F:360:TYR:CE2	1:F:386:ILE:HD11	2.23	0.73
1:P:432:LEU:HD23	1:P:432:LEU:C	2.14	0.73
1:Q:315:GLU:N	1:Q:315:GLU:OE1	2.19	0.73
1:Q:321:TYR:CZ	1:Q:380:LYS:HG2	2.22	0.73
1:S:496:VAL:HB	1:S:497:PRO:HD3	1.70	0.73
1:T:144:THR:HG22	1:T:156:ASP:CG	2.12	0.73
1:T:148:GLY:C	1:T:153:GLU:OE1	2.30	0.73
1:T:360:TYR:CE2	1:T:386:ILE:HD11	2.23	0.73
1:B:53:PHE:HD1	1:B:457:LEU:HD22	1.54	0.73
1:B:148:GLY:C	1:B:153:GLU:OE1	2.30	0.73
1:C:179:ASP:O	1:C:322:THR:N	2.19	0.73
1:D:148:GLY:C	1:D:153:GLU:OE1	2.30	0.73
1:G:432:LEU:HD23	1:G:432:LEU:C	2.14	0.73
1:H:337:ALA:HB3	1:H:342:TYR:HE2	1.54	0.73
1:I:432:LEU:HD23	1:I:432:LEU:C	2.14	0.73
1:J:306:VAL:CG1	1:J:307:ASP:H	1.94	0.73
1:K:53:PHE:HD1	1:K:457:LEU:HD22	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:144:THR:HG22	1:N:156:ASP:CG	2.12	0.73
1:O:432:LEU:HD23	1:O:432:LEU:C	2.14	0.73
1:P:45:ALA:HA	1:P:49:ILE:HD13	1.69	0.73
1:P:53:PHE:HD1	1:P:457:LEU:HD22	1.54	0.73
1:Q:432:LEU:HD23	1:Q:432:LEU:C	2.14	0.73
1:S:179:ASP:O	1:S:322:THR:N	2.19	0.73
1:T:53:PHE:CD1	1:T:457:LEU:HD22	2.22	0.73
1:W:144:THR:HG22	1:W:156:ASP:CG	2.12	0.73
1:A:45:ALA:HA	1:A:49:ILE:HD13	1.69	0.73
1:A:173:ASN:HD22	1:A:411:ALA:HB3	1.50	0.73
1:B:360:TYR:CE2	1:B:386:ILE:HD11	2.23	0.73
1:C:144:THR:HG22	1:C:156:ASP:CG	2.12	0.73
1:F:432:LEU:HD23	1:F:432:LEU:C	2.14	0.73
1:G:53:PHE:HD1	1:G:457:LEU:HD22	1.54	0.73
1:N:45:ALA:HA	1:N:49:ILE:HD13	1.69	0.73
1:O:81:LEU:CD1	1:O:432:LEU:CD2	2.60	0.73
1:O:148:GLY:C	1:O:153:GLU:OE1	2.30	0.73
1:T:432:LEU:HD23	1:T:432:LEU:C	2.14	0.73
1:U:144:THR:HG22	1:U:156:ASP:CG	2.12	0.73
1:W:53:PHE:HD1	1:W:457:LEU:HD22	1.53	0.73
1:A:148:GLY:C	1:A:153:GLU:OE1	2.30	0.73
1:B:144:THR:HG22	1:B:156:ASP:CG	2.12	0.73
1:F:45:ALA:HA	1:F:49:ILE:HD13	1.69	0.73
1:G:337:ALA:HB3	1:G:342:TYR:HE2	1.54	0.73
1:H:53:PHE:HD1	1:H:457:LEU:HD22	1.54	0.73
1:I:53:PHE:CD1	1:I:457:LEU:HD22	2.22	0.73
1:L:53:PHE:HD1	1:L:457:LEU:HD22	1.54	0.73
1:M:53:PHE:HD1	1:M:457:LEU:HD22	1.53	0.73
1:M:148:GLY:C	1:M:153:GLU:OE1	2.30	0.73
1:Q:53:PHE:HD1	1:Q:457:LEU:HD22	1.54	0.73
1:R:496:VAL:HB	1:R:497:PRO:HD3	1.70	0.73
1:U:432:LEU:C	1:U:432:LEU:HD23	2.14	0.73
1:C:496:VAL:HB	1:C:497:PRO:HD3	1.70	0.73
1:E:144:THR:HG22	1:E:156:ASP:CG	2.12	0.73
1:E:360:TYR:CE2	1:E:386:ILE:HD11	2.23	0.73
1:H:432:LEU:HD23	1:H:432:LEU:C	2.14	0.73
1:J:432:LEU:C	1:J:432:LEU:HD23	2.14	0.73
1:O:144:THR:HG22	1:O:156:ASP:CG	2.12	0.73
1:R:432:LEU:C	1:R:432:LEU:HD23	2.14	0.73
1:S:81:LEU:CD1	1:S:432:LEU:CD2	2.60	0.73
1:U:53:PHE:HD1	1:U:457:LEU:HD22	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:432:LEU:HD23	1:W:432:LEU:C	2.14	0.73
1:A:337:ALA:HB3	1:A:342:TYR:HE2	1.54	0.73
1:F:81:LEU:CD1	1:F:432:LEU:CD2	2.60	0.73
1:K:45:ALA:HA	1:K:49:ILE:HD13	1.69	0.73
1:K:144:THR:HG22	1:K:156:ASP:CG	2.12	0.73
1:L:173:ASN:HD22	1:L:411:ALA:HB3	1.50	0.73
1:L:360:TYR:CE2	1:L:386:ILE:HD11	2.22	0.73
1:N:148:GLY:C	1:N:153:GLU:OE1	2.30	0.73
1:N:179:ASP:O	1:N:322:THR:N	2.19	0.73
1:N:360:TYR:CE2	1:N:386:ILE:HD11	2.22	0.73
1:O:386:ILE:CG2	1:O:401:PHE:CE2	2.62	0.73
1:Q:337:ALA:HB3	1:Q:342:TYR:HE2	1.54	0.73
1:R:337:ALA:HB3	1:R:342:TYR:HE2	1.54	0.73
1:W:469:TYR:O	1:W:472:GLU:N	2.22	0.73
1:A:4:ILE:CG1	1:A:501:LEU:HD12	2.02	0.73
1:B:432:LEU:C	1:B:432:LEU:HD23	2.13	0.73
1:E:53:PHE:HD1	1:E:457:LEU:HD22	1.54	0.73
1:E:496:VAL:HB	1:E:497:PRO:HD3	1.70	0.73
1:J:45:ALA:HA	1:J:49:ILE:HD13	1.70	0.73
1:N:53:PHE:HD1	1:N:457:LEU:HD22	1.54	0.73
1:N:337:ALA:HB3	1:N:342:TYR:HE2	1.54	0.73
1:P:179:ASP:O	1:P:322:THR:N	2.19	0.73
1:Q:469:TYR:O	1:Q:472:GLU:N	2.22	0.73
1:R:360:TYR:CE2	1:R:386:ILE:HD11	2.23	0.73
1:W:360:TYR:CE2	1:W:386:ILE:HD11	2.23	0.73
1:D:45:ALA:HA	1:D:49:ILE:HD13	1.69	0.73
1:D:432:LEU:HD23	1:D:432:LEU:C	2.14	0.73
1:E:432:LEU:C	1:E:432:LEU:HD23	2.14	0.73
1:H:148:GLY:C	1:H:153:GLU:OE1	2.30	0.73
1:I:45:ALA:HA	1:I:49:ILE:HD13	1.69	0.73
1:I:321:TYR:CZ	1:I:380:LYS:HG2	2.22	0.73
1:N:432:LEU:HD23	1:N:432:LEU:C	2.14	0.73
1:R:53:PHE:HD1	1:R:457:LEU:HD22	1.54	0.73
1:A:373:GLN:HB3	1:A:383:VAL:HG23	1.53	0.72
1:C:81:LEU:CD1	1:C:432:LEU:CD2	2.60	0.72
1:I:148:GLY:C	1:I:153:GLU:OE1	2.30	0.72
1:L:496:VAL:HB	1:L:497:PRO:HD3	1.70	0.72
1:N:496:VAL:HB	1:N:497:PRO:HD3	1.70	0.72
1:U:144:THR:CG2	1:U:156:ASP:OD1	2.37	0.72
1:U:496:VAL:HB	1:U:497:PRO:HD3	1.70	0.72
1:E:144:THR:CG2	1:E:156:ASP:OD1	2.37	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:148:GLY:C	1:G:153:GLU:OE1	2.30	0.72
1:J:364:ASP:CG	1:J:402:LYS:HZ1	1.96	0.72
1:K:144:THR:CG2	1:K:156:ASP:OD1	2.37	0.72
1:M:432:LEU:C	1:M:432:LEU:HD23	2.14	0.72
1:P:144:THR:CG2	1:P:156:ASP:OD1	2.37	0.72
1:R:469:TYR:O	1:R:472:GLU:N	2.22	0.72
1:S:432:LEU:HD23	1:S:432:LEU:C	2.14	0.72
1:A:496:VAL:HB	1:A:497:PRO:HD3	1.70	0.72
1:C:432:LEU:HD23	1:C:432:LEU:C	2.14	0.72
1:I:53:PHE:HD1	1:I:457:LEU:HD22	1.54	0.72
1:K:469:TYR:O	1:K:472:GLU:N	2.22	0.72
1:L:432:LEU:HD23	1:L:432:LEU:C	2.14	0.72
1:L:469:TYR:O	1:L:472:GLU:N	2.22	0.72
1:O:360:TYR:CE2	1:O:386:ILE:HD11	2.23	0.72
1:S:53:PHE:HD1	1:S:457:LEU:HD22	1.54	0.72
1:W:179:ASP:O	1:W:322:THR:N	2.19	0.72
1:D:81:LEU:CD1	1:D:432:LEU:CD2	2.60	0.72
1:E:45:ALA:HA	1:E:49:ILE:HD13	1.70	0.72
1:E:179:ASP:O	1:E:322:THR:N	2.19	0.72
1:H:360:TYR:CE2	1:H:386:ILE:HD11	2.23	0.72
1:J:144:THR:CG2	1:J:156:ASP:OD1	2.37	0.72
1:K:432:LEU:HD23	1:K:432:LEU:C	2.14	0.72
1:K:496:VAL:HB	1:K:497:PRO:HD3	1.70	0.72
1:P:334:ALA:CA	1:P:342:TYR:O	2.38	0.72
1:T:469:TYR:O	1:T:472:GLU:N	2.22	0.72
1:C:144:THR:CG2	1:C:156:ASP:OD1	2.38	0.72
1:C:469:TYR:O	1:C:472:GLU:N	2.22	0.72
1:D:144:THR:HG22	1:D:156:ASP:CG	2.12	0.72
1:F:144:THR:CG2	1:F:156:ASP:OD1	2.37	0.72
1:I:469:TYR:O	1:I:472:GLU:N	2.22	0.72
1:N:364:ASP:CG	1:N:402:LYS:HZ1	1.97	0.72
1:O:144:THR:CG2	1:O:156:ASP:OD1	2.37	0.72
1:P:496:VAL:HB	1:P:497:PRO:HD3	1.70	0.72
1:R:334:ALA:CA	1:R:342:TYR:O	2.38	0.72
1:T:496:VAL:HB	1:T:497:PRO:HD3	1.70	0.72
1:G:334:ALA:CA	1:G:342:TYR:O	2.38	0.72
1:H:373:GLN:HB3	1:H:383:VAL:HG23	1.53	0.72
1:I:337:ALA:HB3	1:I:342:TYR:HE2	1.54	0.72
1:J:496:VAL:HB	1:J:497:PRO:HD3	1.70	0.72
1:P:469:TYR:O	1:P:472:GLU:N	2.22	0.72
1:Q:334:ALA:CA	1:Q:342:TYR:O	2.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:334:ALA:CA	1:U:342:TYR:O	2.38	0.72
1:B:334:ALA:CA	1:B:342:TYR:O	2.38	0.72
1:E:334:ALA:CA	1:E:342:TYR:O	2.38	0.72
1:F:334:ALA:CA	1:F:342:TYR:O	2.38	0.72
1:F:337:ALA:HB3	1:F:342:TYR:HE2	1.54	0.72
1:F:419:LEU:CB	1:Q:151:ASP:OD1	2.37	0.72
1:F:469:TYR:O	1:F:472:GLU:N	2.22	0.72
1:H:81:LEU:CD1	1:H:432:LEU:CD2	2.60	0.72
1:I:81:LEU:CD1	1:I:432:LEU:CD2	2.60	0.72
1:I:173:ASN:HD22	1:I:411:ALA:HB3	1.50	0.72
1:J:53:PHE:HD1	1:J:457:LEU:HD22	1.54	0.72
1:J:334:ALA:CA	1:J:342:TYR:O	2.38	0.72
1:K:334:ALA:CA	1:K:342:TYR:O	2.38	0.72
1:L:334:ALA:CA	1:L:342:TYR:O	2.38	0.72
1:M:334:ALA:CA	1:M:342:TYR:O	2.38	0.72
1:M:337:ALA:HB3	1:M:342:TYR:HE2	1.54	0.72
1:M:469:TYR:O	1:M:472:GLU:N	2.22	0.72
1:N:469:TYR:O	1:N:472:GLU:N	2.22	0.72
1:T:144:THR:CG2	1:T:156:ASP:OD1	2.38	0.72
1:U:173:ASN:ND2	1:U:377:VAL:HG21	2.05	0.72
1:W:334:ALA:CA	1:W:342:TYR:O	2.38	0.72
1:W:496:VAL:HB	1:W:497:PRO:HD3	1.70	0.72
1:A:334:ALA:CA	1:A:342:TYR:O	2.38	0.72
1:B:337:ALA:HB3	1:B:342:TYR:HE2	1.54	0.72
1:E:419:LEU:CB	1:P:151:ASP:OD1	2.37	0.72
1:H:144:THR:CG2	1:H:156:ASP:OD1	2.37	0.72
1:M:179:ASP:O	1:M:322:THR:N	2.19	0.72
1:O:337:ALA:HB3	1:O:342:TYR:HE2	1.54	0.72
1:O:496:VAL:HB	1:O:497:PRO:HD3	1.70	0.72
1:P:173:ASN:ND2	1:P:377:VAL:HG21	2.05	0.72
1:U:386:ILE:CG2	1:U:401:PHE:CE2	2.62	0.72
1:A:144:THR:CG2	1:A:156:ASP:OD1	2.37	0.72
1:E:173:ASN:ND2	1:E:377:VAL:HG21	2.05	0.72
1:G:469:TYR:O	1:G:472:GLU:N	2.22	0.72
1:H:179:ASP:O	1:H:322:THR:N	2.19	0.72
1:H:496:VAL:HB	1:H:497:PRO:HD3	1.70	0.72
1:I:144:THR:CG2	1:I:156:ASP:OD1	2.37	0.72
1:P:337:ALA:HB3	1:P:342:TYR:HE2	1.54	0.72
1:P:364:ASP:CG	1:P:402:LYS:HZ1	1.98	0.72
1:D:496:VAL:HB	1:D:497:PRO:HD3	1.70	0.72
1:F:496:VAL:HB	1:F:497:PRO:HD3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:173:ASN:ND2	1:J:377:VAL:HG21	2.05	0.72
1:O:173:ASN:ND2	1:O:377:VAL:HG21	2.05	0.72
1:S:173:ASN:ND2	1:S:377:VAL:HG21	2.05	0.72
1:U:469:TYR:O	1:U:472:GLU:N	2.22	0.72
1:B:144:THR:CG2	1:B:156:ASP:OD1	2.38	0.71
1:G:419:LEU:CB	1:R:151:ASP:OD1	2.38	0.71
1:H:334:ALA:CA	1:H:342:TYR:O	2.38	0.71
1:N:144:THR:CG2	1:N:156:ASP:OD1	2.37	0.71
1:O:179:ASP:O	1:O:322:THR:N	2.19	0.71
1:O:334:ALA:CA	1:O:342:TYR:O	2.38	0.71
1:T:173:ASN:ND2	1:T:377:VAL:HG21	2.05	0.71
1:W:144:THR:CG2	1:W:156:ASP:OD1	2.37	0.71
1:A:469:TYR:O	1:A:472:GLU:N	2.22	0.71
1:G:144:THR:CG2	1:G:156:ASP:OD1	2.37	0.71
1:K:4:ILE:CG1	1:K:501:LEU:HD12	2.02	0.71
1:K:173:ASN:ND2	1:K:377:VAL:HG21	2.05	0.71
1:K:173:ASN:HD22	1:K:411:ALA:HB3	1.50	0.71
1:M:173:ASN:ND2	1:M:377:VAL:HG21	2.05	0.71
1:Q:144:THR:CG2	1:Q:156:ASP:OD1	2.37	0.71
1:S:334:ALA:CA	1:S:342:TYR:O	2.38	0.71
1:T:53:PHE:HD1	1:T:457:LEU:HD22	1.54	0.71
1:T:81:LEU:CD1	1:T:432:LEU:CD2	2.60	0.71
1:L:144:THR:CG2	1:L:156:ASP:OD1	2.37	0.71
1:N:173:ASN:ND2	1:N:377:VAL:HG21	2.05	0.71
1:U:179:ASP:O	1:U:322:THR:N	2.19	0.71
1:W:173:ASN:ND2	1:W:377:VAL:HG21	2.05	0.71
1:D:144:THR:CG2	1:D:156:ASP:OD1	2.38	0.71
1:D:334:ALA:CA	1:D:342:TYR:O	2.38	0.71
1:E:469:TYR:O	1:E:472:GLU:N	2.22	0.71
1:F:173:ASN:ND2	1:F:377:VAL:HG21	2.05	0.71
1:G:496:VAL:HB	1:G:497:PRO:HD3	1.70	0.71
1:H:173:ASN:ND2	1:H:377:VAL:HG21	2.05	0.71
1:J:386:ILE:CG2	1:J:401:PHE:CE2	2.62	0.71
1:M:144:THR:CG2	1:M:156:ASP:OD1	2.38	0.71
1:O:469:TYR:O	1:O:472:GLU:N	2.22	0.71
1:Q:496:VAL:HB	1:Q:497:PRO:HD3	1.70	0.71
1:S:337:ALA:HB3	1:S:342:TYR:HE2	1.54	0.71
1:T:173:ASN:HD22	1:T:411:ALA:HB3	1.50	0.71
1:W:173:ASN:HD22	1:W:411:ALA:HB3	1.50	0.71
1:C:334:ALA:CA	1:C:342:TYR:O	2.38	0.71
1:D:53:PHE:HD1	1:D:457:LEU:HD22	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:468:ASP:HB2	1:P:2:GLN:H	1.56	0.71
1:I:468:ASP:HB2	1:T:2:GLN:H	1.56	0.71
1:P:178:TYR:HE2	1:P:378:ASP:CB	2.02	0.71
1:C:468:ASP:HB2	1:N:2:GLN:H	1.55	0.71
1:D:364:ASP:CG	1:D:402:LYS:HZ1	1.98	0.71
1:D:419:LEU:CB	1:O:151:ASP:OD1	2.37	0.71
1:I:179:ASP:O	1:I:322:THR:N	2.19	0.71
1:I:496:VAL:HB	1:I:497:PRO:HD3	1.70	0.71
1:N:81:LEU:CD1	1:N:432:LEU:CD2	2.60	0.71
1:P:306:VAL:CG1	1:P:307:ASP:H	1.94	0.71
1:W:298:LYS:O	1:W:302:ILE:CG1	2.39	0.71
1:A:173:ASN:ND2	1:A:377:VAL:HG21	2.05	0.71
1:A:419:LEU:HD12	1:L:151:ASP:CG	2.16	0.71
1:C:50:ALA:HB1	1:C:465:GLU:OE2	1.91	0.71
1:I:419:LEU:CB	1:T:151:ASP:OD1	2.38	0.71
1:J:358:THR:HG23	1:J:360:TYR:HD2	1.56	0.71
1:J:469:TYR:O	1:J:472:GLU:N	2.22	0.71
1:K:179:ASP:O	1:K:322:THR:N	2.19	0.71
1:K:358:THR:HG23	1:K:360:TYR:HD2	1.56	0.71
1:O:53:PHE:HD1	1:O:457:LEU:HD22	1.54	0.71
1:S:144:THR:CG2	1:S:156:ASP:OD1	2.37	0.71
1:T:334:ALA:CA	1:T:342:TYR:O	2.38	0.71
1:T:364:ASP:CG	1:T:402:LYS:HZ3	1.98	0.71
1:U:298:LYS:O	1:U:302:ILE:CG1	2.39	0.71
1:W:358:THR:HG23	1:W:360:TYR:HD2	1.56	0.71
1:B:469:TYR:O	1:B:472:GLU:N	2.22	0.71
1:H:50:ALA:HB1	1:H:465:GLU:OE2	1.91	0.71
1:H:469:TYR:O	1:H:472:GLU:N	2.22	0.71
1:L:358:THR:HG23	1:L:360:TYR:HD2	1.56	0.71
1:N:334:ALA:CA	1:N:342:TYR:O	2.38	0.71
1:P:298:LYS:O	1:P:302:ILE:CG1	2.39	0.71
1:Q:298:LYS:O	1:Q:302:ILE:CG1	2.39	0.71
1:U:358:THR:HG23	1:U:360:TYR:HD2	1.56	0.71
1:G:179:ASP:O	1:G:322:THR:N	2.19	0.71
1:H:358:THR:HG23	1:H:360:TYR:HD2	1.56	0.71
1:Q:173:ASN:ND2	1:Q:377:VAL:HG21	2.05	0.71
1:R:298:LYS:O	1:R:302:ILE:CG1	2.39	0.71
1:A:298:LYS:O	1:A:302:ILE:CG1	2.39	0.71
1:B:50:ALA:HB1	1:B:465:GLU:OE2	1.91	0.71
1:B:298:LYS:O	1:B:302:ILE:CG1	2.39	0.71
1:B:419:LEU:HB2	1:M:151:ASP:OD1	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:469:TYR:O	1:D:472:GLU:N	2.22	0.71
1:I:50:ALA:HB1	1:I:465:GLU:OE2	1.91	0.71
1:O:50:ALA:HB1	1:O:465:GLU:OE2	1.91	0.71
1:R:179:ASP:O	1:R:322:THR:N	2.19	0.71
1:S:306:VAL:CG1	1:S:307:ASP:N	2.53	0.71
1:G:306:VAL:CG1	1:G:307:ASP:N	2.53	0.70
1:H:173:ASN:HD22	1:H:411:ALA:HB3	1.50	0.70
1:K:337:ALA:HB3	1:K:342:TYR:HE2	1.54	0.70
1:M:358:THR:HG23	1:M:360:TYR:HD2	1.56	0.70
1:R:144:THR:CG2	1:R:156:ASP:OD1	2.38	0.70
1:S:50:ALA:HB1	1:S:465:GLU:OE2	1.91	0.70
1:S:469:TYR:O	1:S:472:GLU:N	2.22	0.70
1:T:358:THR:HG23	1:T:360:TYR:HD2	1.56	0.70
1:W:364:ASP:CG	1:W:402:LYS:HZ1	1.97	0.70
1:A:358:THR:HG23	1:A:360:TYR:HD2	1.56	0.70
1:B:358:THR:HG23	1:B:360:TYR:HD2	1.56	0.70
1:I:334:ALA:CA	1:I:342:TYR:O	2.38	0.70
1:J:337:ALA:HB3	1:J:342:TYR:HE2	1.54	0.70
1:M:50:ALA:HB1	1:M:465:GLU:OE2	1.91	0.70
1:P:386:ILE:CG2	1:P:401:PHE:CE2	2.62	0.70
1:C:358:THR:HG23	1:C:360:TYR:HD2	1.56	0.70
1:D:50:ALA:HB1	1:D:465:GLU:OE2	1.91	0.70
1:J:419:LEU:CB	1:U:151:ASP:OD1	2.40	0.70
1:K:298:LYS:O	1:K:302:ILE:CG1	2.39	0.70
1:L:173:ASN:ND2	1:L:377:VAL:HG21	2.05	0.70
1:L:337:ALA:HB3	1:L:342:TYR:HE2	1.54	0.70
1:P:162:ILE:CD1	1:P:432:LEU:HD13	2.13	0.70
1:Q:179:ASP:O	1:Q:322:THR:N	2.19	0.70
1:R:4:ILE:CG1	1:R:501:LEU:HD12	2.02	0.70
1:S:358:THR:HG23	1:S:360:TYR:HD2	1.56	0.70
1:U:38:ASN:HD22	1:U:41:LYS:NZ	1.90	0.70
1:I:358:THR:HG23	1:I:360:TYR:HD2	1.56	0.70
1:K:117:GLN:HG3	1:P:442:ARG:HD2	1.72	0.70
1:B:306:VAL:CG1	1:B:307:ASP:N	2.53	0.70
1:E:173:ASN:HD22	1:E:411:ALA:HB3	1.50	0.70
1:F:179:ASP:O	1:F:322:THR:N	2.19	0.70
1:G:298:LYS:O	1:G:302:ILE:CG1	2.39	0.70
1:G:468:ASP:HB2	1:R:2:GLN:H	1.56	0.70
1:I:38:ASN:ND2	1:I:41:LYS:HZ1	1.90	0.70
1:J:117:GLN:HG3	1:O:442:ARG:HD2	1.73	0.70
1:R:50:ALA:HB1	1:R:465:GLU:OE2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:50:ALA:HB1	1:T:465:GLU:OE2	1.91	0.70
1:U:50:ALA:HB1	1:U:465:GLU:OE2	1.91	0.70
1:U:162:ILE:CD1	1:U:432:LEU:HD13	2.13	0.70
1:D:358:THR:HG23	1:D:360:TYR:HD2	1.56	0.70
1:D:468:ASP:HB2	1:O:2:GLN:H	1.56	0.70
1:F:358:THR:HG23	1:F:360:TYR:HD2	1.56	0.70
1:N:50:ALA:HB1	1:N:465:GLU:OE2	1.91	0.70
1:N:358:THR:HG23	1:N:360:TYR:HD2	1.56	0.70
1:O:358:THR:HG23	1:O:360:TYR:HD2	1.56	0.70
1:S:173:ASN:HD22	1:S:411:ALA:HB3	1.50	0.70
1:E:298:LYS:O	1:E:302:ILE:CG1	2.39	0.70
1:F:298:LYS:O	1:F:302:ILE:CG1	2.39	0.70
1:F:468:ASP:HB2	1:Q:2:GLN:H	1.57	0.70
1:G:50:ALA:HB1	1:G:465:GLU:OE2	1.91	0.70
1:G:173:ASN:ND2	1:G:377:VAL:HG21	2.05	0.70
1:G:358:THR:HG23	1:G:360:TYR:HD2	1.56	0.70
1:I:364:ASP:CG	1:I:402:LYS:HZ1	1.98	0.70
1:U:38:ASN:HD22	1:U:41:LYS:HZ1	1.39	0.70
1:C:298:LYS:O	1:C:302:ILE:CG1	2.39	0.70
1:C:337:ALA:HB3	1:C:342:TYR:HE2	1.54	0.70
1:E:50:ALA:HB1	1:E:465:GLU:OE2	1.91	0.70
1:L:179:ASP:O	1:L:322:THR:N	2.19	0.70
1:P:173:ASN:HD22	1:P:411:ALA:HB3	1.50	0.70
1:R:358:THR:HG23	1:R:360:TYR:HD2	1.56	0.70
1:B:419:LEU:HD12	1:M:151:ASP:CG	2.16	0.70
1:B:468:ASP:HB2	1:M:2:GLN:H	1.56	0.70
1:E:358:THR:HG23	1:E:360:TYR:HD2	1.56	0.70
1:H:468:ASP:HB2	1:S:2:GLN:H	1.57	0.70
1:B:173:ASN:ND2	1:B:377:VAL:HG21	2.05	0.69
1:D:298:LYS:O	1:D:302:ILE:CG1	2.39	0.69
1:U:337:ALA:HB3	1:U:342:TYR:HE2	1.54	0.69
1:A:419:LEU:HB2	1:L:151:ASP:OD1	1.91	0.69
1:D:117:GLN:HG3	1:I:442:ARG:HD2	1.74	0.69
1:E:480:GLN:NE2	1:J:492:GLN:HE21	1.89	0.69
1:F:335:LEU:HG	1:F:344:ALA:CB	2.22	0.69
1:H:298:LYS:O	1:H:302:ILE:CG1	2.39	0.69
1:K:419:LEU:CB	1:W:151:ASP:OD1	2.40	0.69
1:L:50:ALA:HB1	1:L:465:GLU:OE2	1.91	0.69
1:A:335:LEU:HG	1:A:344:ALA:CB	2.23	0.69
1:C:419:LEU:HB2	1:N:151:ASP:OD1	1.92	0.69
1:N:117:GLN:HG3	1:S:442:ARG:HD2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:173:ASN:ND2	1:R:377:VAL:HG21	2.05	0.69
1:R:306:VAL:CG1	1:R:307:ASP:N	2.53	0.69
1:U:45:ALA:O	1:U:49:ILE:HB	1.92	0.69
1:K:364:ASP:CG	1:K:402:LYS:HZ1	1.99	0.69
1:M:335:LEU:HG	1:M:344:ALA:CB	2.22	0.69
1:R:38:ASN:HD22	1:R:41:LYS:NZ	1.90	0.69
1:W:50:ALA:HB1	1:W:465:GLU:OE2	1.91	0.69
1:A:45:ALA:O	1:A:49:ILE:HB	1.92	0.69
1:B:45:ALA:O	1:B:49:ILE:HB	1.92	0.69
1:G:45:ALA:O	1:G:49:ILE:HB	1.92	0.69
1:H:419:LEU:CB	1:S:151:ASP:OD1	2.40	0.69
1:J:173:ASN:HD22	1:J:411:ALA:HB3	1.50	0.69
1:P:50:ALA:HB1	1:P:465:GLU:OE2	1.91	0.69
1:Q:335:LEU:HG	1:Q:344:ALA:CB	2.23	0.69
1:R:335:LEU:HG	1:R:344:ALA:CB	2.23	0.69
1:U:364:ASP:HB2	1:U:402:LYS:HZ3	1.57	0.69
1:W:335:LEU:HG	1:W:344:ALA:CB	2.23	0.69
1:C:147:VAL:CG2	1:C:155:ILE:HD12	2.23	0.69
1:D:173:ASN:ND2	1:D:377:VAL:HG21	2.05	0.69
1:E:306:VAL:CG1	1:E:307:ASP:H	1.94	0.69
1:H:147:VAL:CG2	1:H:155:ILE:HD12	2.23	0.69
1:J:45:ALA:O	1:J:49:ILE:HB	1.93	0.69
1:L:45:ALA:O	1:L:49:ILE:HB	1.92	0.69
1:N:306:VAL:CG1	1:N:307:ASP:N	2.54	0.69
1:N:373:GLN:HB3	1:N:383:VAL:HG23	1.53	0.69
1:P:358:THR:HG23	1:P:360:TYR:HD2	1.56	0.69
1:T:337:ALA:HB3	1:T:342:TYR:HE2	1.54	0.69
1:A:50:ALA:HB1	1:A:465:GLU:OE2	1.91	0.69
1:A:468:ASP:HB2	1:L:2:GLN:H	1.56	0.69
1:C:114:GLU:OE2	1:S:43:ASP:CG	2.35	0.69
1:F:50:ALA:HB1	1:F:465:GLU:OE2	1.91	0.69
1:K:293:VAL:CG1	1:K:297:ALA:CB	2.69	0.69
1:K:468:ASP:HB2	1:W:2:GLN:H	1.57	0.69
1:L:298:LYS:O	1:L:302:ILE:CG1	2.39	0.69
1:L:335:LEU:HG	1:L:344:ALA:CB	2.23	0.69
1:M:298:LYS:O	1:M:302:ILE:CG1	2.39	0.69
1:O:178:TYR:HE2	1:O:378:ASP:CB	2.02	0.69
1:Q:50:ALA:HB1	1:Q:465:GLU:OE2	1.91	0.69
1:B:480:GLN:NE2	1:G:492:GLN:HE21	1.91	0.69
1:C:45:ALA:O	1:C:49:ILE:HB	1.92	0.69
1:C:173:ASN:ND2	1:C:377:VAL:HG21	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:45:ALA:O	1:D:49:ILE:HB	1.92	0.69
1:H:293:VAL:CG1	1:H:297:ALA:CB	2.69	0.69
1:I:298:LYS:O	1:I:302:ILE:CG1	2.39	0.69
1:J:468:ASP:HB2	1:U:2:GLN:H	1.57	0.69
1:K:147:VAL:CG2	1:K:155:ILE:HD12	2.23	0.69
1:M:45:ALA:O	1:M:49:ILE:HB	1.93	0.69
1:M:147:VAL:CG2	1:M:155:ILE:HD12	2.23	0.69
1:O:117:GLN:HG3	1:T:442:ARG:HD2	1.74	0.69
1:R:45:ALA:O	1:R:49:ILE:HB	1.92	0.69
1:S:147:VAL:CG2	1:S:155:ILE:HD12	2.23	0.69
1:B:335:LEU:HG	1:B:344:ALA:CB	2.23	0.69
1:F:114:GLU:OE2	1:W:43:ASP:CG	2.35	0.69
1:F:147:VAL:CG2	1:F:155:ILE:HD12	2.23	0.69
1:F:306:VAL:CG1	1:F:307:ASP:N	2.54	0.69
1:H:45:ALA:O	1:H:49:ILE:HB	1.92	0.69
1:H:335:LEU:HG	1:H:344:ALA:CB	2.23	0.69
1:I:335:LEU:HG	1:I:344:ALA:CB	2.23	0.69
1:J:298:LYS:O	1:J:302:ILE:CG1	2.39	0.69
1:K:50:ALA:HB1	1:K:465:GLU:OE2	1.91	0.69
1:K:335:LEU:HG	1:K:344:ALA:CB	2.22	0.69
1:N:45:ALA:O	1:N:49:ILE:HB	1.92	0.69
1:O:45:ALA:O	1:O:49:ILE:HB	1.92	0.69
1:Q:358:THR:HG23	1:Q:360:TYR:HD2	1.56	0.69
1:F:419:LEU:HD12	1:Q:151:ASP:CG	2.17	0.69
1:F:480:GLN:NE2	1:K:492:GLN:HE21	1.91	0.69
1:J:50:ALA:HB1	1:J:465:GLU:OE2	1.91	0.69
1:N:147:VAL:CG2	1:N:155:ILE:HD12	2.23	0.69
1:Q:147:VAL:CG2	1:Q:155:ILE:HD12	2.23	0.69
1:F:45:ALA:O	1:F:49:ILE:HB	1.93	0.68
1:I:173:ASN:ND2	1:I:377:VAL:HG21	2.05	0.68
1:K:45:ALA:O	1:K:49:ILE:HB	1.92	0.68
1:O:335:LEU:HG	1:O:344:ALA:CB	2.23	0.68
1:P:147:VAL:CG2	1:P:155:ILE:HD12	2.23	0.68
1:Q:117:GLN:HG3	1:W:442:ARG:HD2	1.73	0.68
1:D:419:LEU:HB2	1:O:151:ASP:OD1	1.93	0.68
1:I:38:ASN:HD22	1:I:41:LYS:NZ	1.90	0.68
1:J:335:LEU:HG	1:J:344:ALA:CB	2.23	0.68
1:J:364:ASP:HB2	1:J:402:LYS:HZ3	1.59	0.68
1:O:147:VAL:CG2	1:O:155:ILE:HD12	2.23	0.68
1:Q:45:ALA:O	1:Q:49:ILE:HB	1.92	0.68
1:U:173:ASN:HD22	1:U:411:ALA:HB3	1.50	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:45:ALA:O	1:W:49:ILE:HB	1.92	0.68
1:W:147:VAL:CG2	1:W:155:ILE:HD12	2.23	0.68
1:A:480:GLN:NE2	1:F:492:GLN:HE21	1.92	0.68
1:E:335:LEU:HG	1:E:344:ALA:CB	2.23	0.68
1:L:147:VAL:CG2	1:L:155:ILE:HD12	2.23	0.68
1:N:298:LYS:O	1:N:302:ILE:CG1	2.39	0.68
1:O:298:LYS:O	1:O:302:ILE:CG1	2.39	0.68
1:T:45:ALA:O	1:T:49:ILE:HB	1.93	0.68
1:T:147:VAL:CG2	1:T:155:ILE:HD12	2.23	0.68
1:A:147:VAL:CG2	1:A:155:ILE:HD12	2.23	0.68
1:E:147:VAL:CG2	1:E:155:ILE:HD12	2.23	0.68
1:E:162:ILE:CD1	1:E:432:LEU:HD13	2.13	0.68
1:G:173:ASN:HD22	1:G:411:ALA:HB3	1.50	0.68
1:G:335:LEU:HG	1:G:344:ALA:CB	2.23	0.68
1:H:117:GLN:HG3	1:M:442:ARG:HD2	1.74	0.68
1:S:45:ALA:O	1:S:49:ILE:HB	1.93	0.68
1:G:480:GLN:NE2	1:L:492:GLN:HE21	1.92	0.68
1:I:147:VAL:CG2	1:I:155:ILE:HD12	2.23	0.68
1:J:147:VAL:CG2	1:J:155:ILE:HD12	2.23	0.68
1:M:306:VAL:CG1	1:M:307:ASP:N	2.53	0.68
1:C:117:GLN:HG3	1:H:442:ARG:HD2	1.76	0.68
1:H:35:LEU:HD23	1:S:5:ASN:ND2	2.09	0.68
1:I:45:ALA:O	1:I:49:ILE:HB	1.92	0.68
1:N:335:LEU:HG	1:N:344:ALA:CB	2.23	0.68
1:R:147:VAL:CG2	1:R:155:ILE:HD12	2.23	0.68
1:R:401:PHE:CE1	1:R:407:LEU:CD1	2.76	0.68
1:T:298:LYS:O	1:T:302:ILE:CG1	2.39	0.68
1:T:335:LEU:HG	1:T:344:ALA:CB	2.23	0.68
1:B:147:VAL:CG2	1:B:155:ILE:HD12	2.23	0.68
1:D:114:GLU:OE2	1:T:43:ASP:CG	2.37	0.68
1:D:335:LEU:HG	1:D:344:ALA:CB	2.23	0.68
1:F:173:ASN:HD22	1:F:411:ALA:HB3	1.50	0.68
1:F:364:ASP:CG	1:F:402:LYS:HZ1	1.99	0.68
1:I:321:TYR:CD2	1:I:380:LYS:CG	2.77	0.68
1:Q:4:ILE:CG1	1:Q:501:LEU:HD12	2.02	0.68
1:U:147:VAL:CG2	1:U:155:ILE:HD12	2.23	0.68
1:A:306:VAL:CG1	1:A:307:ASP:N	2.53	0.68
1:C:335:LEU:HG	1:C:344:ALA:CB	2.23	0.68
1:E:114:GLU:OE2	1:U:43:ASP:CG	2.36	0.68
1:F:386:ILE:CD1	1:F:401:PHE:HE2	2.05	0.68
1:H:419:LEU:HD12	1:S:151:ASP:CG	2.18	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:480:GLN:NE2	1:N:492:GLN:HE21	1.91	0.68
1:J:162:ILE:CD1	1:J:432:LEU:HD13	2.13	0.68
1:L:401:PHE:CE1	1:L:407:LEU:CD1	2.76	0.68
1:M:401:PHE:CE1	1:M:407:LEU:CD1	2.76	0.68
1:M:480:GLN:NE2	1:R:492:GLN:HE21	1.91	0.68
1:P:77:THR:HG21	1:P:436:LEU:HD21	1.76	0.68
1:R:321:TYR:CD2	1:R:380:LYS:CG	2.77	0.68
1:S:335:LEU:HG	1:S:344:ALA:CB	2.22	0.68
1:B:321:TYR:CD2	1:B:380:LYS:CG	2.77	0.68
1:B:401:PHE:CE1	1:B:407:LEU:CD1	2.76	0.68
1:D:321:TYR:CD2	1:D:380:LYS:CG	2.77	0.68
1:E:337:ALA:HB3	1:E:342:TYR:HE2	1.54	0.68
1:E:386:ILE:CD1	1:E:401:PHE:HE2	2.06	0.68
1:F:419:LEU:HB2	1:Q:151:ASP:OD1	1.94	0.68
1:G:147:VAL:CG2	1:G:155:ILE:HD12	2.23	0.68
1:H:480:GLN:NE2	1:M:492:GLN:HE21	1.92	0.68
1:I:117:GLN:HG3	1:N:442:ARG:HD2	1.76	0.68
1:J:419:LEU:HD12	1:U:151:ASP:CG	2.19	0.68
1:O:306:VAL:CG1	1:O:307:ASP:N	2.53	0.68
1:P:173:ASN:O	1:P:414:THR:HG23	1.94	0.68
1:Q:77:THR:HG21	1:Q:436:LEU:HD21	1.76	0.68
1:Q:480:GLN:NE2	1:W:492:GLN:HE21	1.92	0.68
1:A:401:PHE:CE1	1:A:407:LEU:CD1	2.76	0.68
1:E:419:LEU:HD12	1:P:151:ASP:CG	2.18	0.68
1:J:501:LEU:HB3	1:J:505:ARG:HH11	1.54	0.68
1:N:321:TYR:CD2	1:N:380:LYS:CG	2.77	0.68
1:O:77:THR:HG21	1:O:436:LEU:HD21	1.76	0.68
1:S:173:ASN:O	1:S:414:THR:HG23	1.94	0.68
1:U:173:ASN:O	1:U:414:THR:HG23	1.94	0.68
1:D:337:ALA:HB3	1:D:342:TYR:HE2	1.54	0.67
1:E:173:ASN:O	1:E:414:THR:HG23	1.94	0.67
1:G:321:TYR:CD2	1:G:380:LYS:CG	2.77	0.67
1:K:173:ASN:O	1:K:414:THR:HG23	1.94	0.67
1:L:480:GLN:NE2	1:Q:492:GLN:HE21	1.93	0.67
1:M:321:TYR:CD2	1:M:380:LYS:CG	2.77	0.67
1:P:335:LEU:HG	1:P:344:ALA:CB	2.23	0.67
1:T:173:ASN:O	1:T:414:THR:HG23	1.94	0.67
1:T:321:TYR:CD2	1:T:380:LYS:CG	2.77	0.67
1:U:335:LEU:HG	1:U:344:ALA:CB	2.23	0.67
1:B:373:GLN:C	1:B:382:GLU:HA	2.20	0.67
1:L:321:TYR:CD2	1:L:380:LYS:CG	2.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:373:GLN:C	1:L:382:GLU:HA	2.20	0.67
1:N:173:ASN:O	1:N:414:THR:HG23	1.94	0.67
1:O:173:ASN:O	1:O:414:THR:HG23	1.94	0.67
1:O:321:TYR:CD2	1:O:380:LYS:CG	2.77	0.67
1:P:480:GLN:NE2	1:U:492:GLN:HE21	1.91	0.67
1:Q:401:PHE:CE1	1:Q:407:LEU:CD1	2.77	0.67
1:R:173:ASN:HD22	1:R:411:ALA:HB3	1.50	0.67
1:S:298:LYS:O	1:S:302:ILE:CG1	2.39	0.67
1:F:117:GLN:HG3	1:K:442:ARG:HD2	1.75	0.67
1:G:4:ILE:CG1	1:G:501:LEU:HD12	2.02	0.67
1:G:419:LEU:HB2	1:R:151:ASP:OD1	1.94	0.67
1:J:321:TYR:CD2	1:J:380:LYS:CG	2.77	0.67
1:L:364:ASP:CG	1:L:402:LYS:HZ1	2.00	0.67
1:O:162:ILE:CD1	1:O:432:LEU:HD13	2.13	0.67
1:P:45:ALA:O	1:P:49:ILE:HB	1.92	0.67
1:S:373:GLN:C	1:S:382:GLU:HA	2.20	0.67
1:S:401:PHE:CE1	1:S:407:LEU:CD1	2.76	0.67
1:A:77:THR:HG21	1:A:436:LEU:HD21	1.76	0.67
1:D:147:VAL:CG2	1:D:155:ILE:HD12	2.23	0.67
1:H:173:ASN:O	1:H:414:THR:HG23	1.94	0.67
1:K:419:LEU:HD12	1:W:151:ASP:CG	2.19	0.67
1:M:173:ASN:O	1:M:414:THR:HG23	1.94	0.67
1:Q:173:ASN:HD22	1:Q:411:ALA:HB3	1.50	0.67
1:Q:306:VAL:CG1	1:Q:307:ASP:N	2.53	0.67
1:W:373:GLN:C	1:W:382:GLU:HA	2.20	0.67
1:A:321:TYR:CD2	1:A:380:LYS:CG	2.77	0.67
1:D:173:ASN:O	1:D:414:THR:HG23	1.94	0.67
1:E:373:GLN:C	1:E:382:GLU:HA	2.20	0.67
1:F:77:THR:HG21	1:F:436:LEU:HD21	1.76	0.67
1:I:173:ASN:O	1:I:414:THR:HG23	1.95	0.67
1:J:173:ASN:O	1:J:414:THR:HG23	1.95	0.67
1:P:314:ALA:HB1	1:P:336:LYS:C	2.20	0.67
1:Q:321:TYR:CD2	1:Q:380:LYS:CG	2.77	0.67
1:S:321:TYR:CD2	1:S:380:LYS:CG	2.77	0.67
1:W:321:TYR:CD2	1:W:380:LYS:CG	2.77	0.67
1:C:173:ASN:O	1:C:414:THR:HG23	1.94	0.67
1:C:373:GLN:C	1:C:382:GLU:HA	2.20	0.67
1:C:480:GLN:NE2	1:H:492:GLN:HE21	1.92	0.67
1:D:480:GLN:NE2	1:I:492:GLN:HE21	1.92	0.67
1:E:45:ALA:O	1:E:49:ILE:HB	1.92	0.67
1:E:321:TYR:CD2	1:E:380:LYS:CG	2.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:314:ALA:HB1	1:F:336:LYS:C	2.20	0.67
1:G:117:GLN:HG3	1:L:442:ARG:HD2	1.75	0.67
1:M:373:GLN:C	1:M:382:GLU:HA	2.20	0.67
1:P:117:GLN:HG3	1:U:442:ARG:HD2	1.75	0.67
1:R:173:ASN:O	1:R:414:THR:HG23	1.94	0.67
1:U:373:GLN:C	1:U:382:GLU:HA	2.20	0.67
1:W:173:ASN:O	1:W:414:THR:HG23	1.94	0.67
1:B:173:ASN:O	1:B:414:THR:HG23	1.94	0.67
1:B:364:ASP:CG	1:B:402:LYS:HZ1	2.01	0.67
1:C:321:TYR:CD2	1:C:380:LYS:CG	2.77	0.67
1:E:77:THR:HG21	1:E:436:LEU:HD21	1.76	0.67
1:F:173:ASN:O	1:F:414:THR:HG23	1.95	0.67
1:F:321:TYR:CD2	1:F:380:LYS:CG	2.77	0.67
1:I:77:THR:HG21	1:I:436:LEU:HD21	1.76	0.67
1:J:77:THR:HG21	1:J:436:LEU:HD21	1.76	0.67
1:Q:162:ILE:CD1	1:Q:432:LEU:HD13	2.13	0.67
1:B:101:SER:HB3	1:M:143:LEU:HA	1.77	0.67
1:C:364:ASP:CG	1:C:402:LYS:HZ1	2.01	0.67
1:F:373:GLN:C	1:F:382:GLU:HA	2.20	0.67
1:G:77:THR:HG21	1:G:436:LEU:HD21	1.76	0.67
1:H:321:TYR:CD2	1:H:380:LYS:CG	2.77	0.67
1:W:77:THR:HG21	1:W:436:LEU:HD21	1.76	0.67
1:W:337:ALA:HB3	1:W:342:TYR:HE2	1.54	0.67
1:D:373:GLN:C	1:D:382:GLU:HA	2.20	0.67
1:D:401:PHE:CE1	1:D:407:LEU:CD1	2.76	0.67
1:E:314:ALA:HB1	1:E:336:LYS:C	2.20	0.67
1:I:314:ALA:HB1	1:I:336:LYS:C	2.20	0.67
1:J:314:ALA:HB1	1:J:336:LYS:C	2.20	0.67
1:K:77:THR:HG21	1:K:436:LEU:HD21	1.76	0.67
1:L:314:ALA:HB1	1:L:336:LYS:C	2.20	0.67
1:Q:341:TYR:CB	1:Q:374:LEU:HD12	2.18	0.67
1:T:373:GLN:C	1:T:382:GLU:HA	2.20	0.67
1:W:173:ASN:ND2	1:W:377:VAL:HG23	2.10	0.67
1:W:306:VAL:CG1	1:W:307:ASP:H	1.94	0.67
1:W:314:ALA:HB1	1:W:336:LYS:C	2.20	0.67
1:G:401:PHE:CE1	1:G:407:LEU:CD1	2.77	0.67
1:G:419:LEU:HD12	1:R:151:ASP:CG	2.19	0.67
1:I:306:VAL:CG1	1:I:307:ASP:N	2.53	0.67
1:L:117:GLN:HG3	1:Q:442:ARG:HD2	1.75	0.67
1:M:173:ASN:ND2	1:M:377:VAL:HG23	2.10	0.67
1:O:373:GLN:HB3	1:O:383:VAL:HG22	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:77:THR:HG21	1:R:436:LEU:HD21	1.76	0.67
1:T:314:ALA:HB1	1:T:336:LYS:C	2.20	0.67
1:U:314:ALA:HB1	1:U:336:LYS:C	2.20	0.67
1:U:401:PHE:CE1	1:U:407:LEU:CD1	2.76	0.67
1:W:364:ASP:HB2	1:W:402:LYS:HZ3	1.60	0.67
1:C:314:ALA:HB1	1:C:336:LYS:C	2.20	0.66
1:D:77:THR:HG21	1:D:436:LEU:HD21	1.76	0.66
1:G:173:ASN:O	1:G:414:THR:HG23	1.94	0.66
1:H:386:ILE:CG2	1:H:401:PHE:CE2	2.62	0.66
1:I:30:ARG:HE	1:I:41:LYS:HD2	1.60	0.66
1:K:321:TYR:CD2	1:K:380:LYS:CG	2.77	0.66
1:K:401:PHE:CE1	1:K:407:LEU:CD1	2.76	0.66
1:M:117:GLN:HG3	1:R:442:ARG:HD2	1.76	0.66
1:N:173:ASN:ND2	1:N:377:VAL:HG23	2.10	0.66
1:O:314:ALA:HB1	1:O:336:LYS:C	2.20	0.66
1:Q:499:ASN:O	1:Q:503:LEU:CG	2.43	0.66
1:T:162:ILE:CD1	1:T:432:LEU:HD13	2.13	0.66
1:T:173:ASN:ND2	1:T:377:VAL:HG23	2.10	0.66
1:U:77:THR:HG21	1:U:436:LEU:HD21	1.76	0.66
1:U:321:TYR:CD2	1:U:380:LYS:CG	2.77	0.66
1:W:293:VAL:CG1	1:W:297:ALA:CB	2.69	0.66
1:A:30:ARG:HE	1:A:41:LYS:HD2	1.60	0.66
1:A:173:ASN:O	1:A:414:THR:HG23	1.94	0.66
1:B:117:GLN:HG3	1:G:442:ARG:HD2	1.76	0.66
1:B:499:ASN:O	1:B:503:LEU:CG	2.43	0.66
1:C:386:ILE:CD1	1:C:401:PHE:HE2	2.06	0.66
1:D:364:ASP:HB2	1:D:402:LYS:HZ3	1.60	0.66
1:F:173:ASN:ND2	1:F:377:VAL:HG23	2.10	0.66
1:F:401:PHE:CE1	1:F:407:LEU:CD1	2.76	0.66
1:K:35:LEU:HD23	1:W:5:ASN:ND2	2.09	0.66
1:K:173:ASN:ND2	1:K:377:VAL:HG23	2.10	0.66
1:M:314:ALA:HB1	1:M:336:LYS:C	2.20	0.66
1:N:77:THR:HG21	1:N:436:LEU:HD21	1.76	0.66
1:R:499:ASN:O	1:R:503:LEU:CG	2.43	0.66
1:A:101:SER:HB3	1:L:143:LEU:HA	1.76	0.66
1:A:162:ILE:CD1	1:A:432:LEU:HD13	2.13	0.66
1:C:401:PHE:CE1	1:C:407:LEU:CD1	2.77	0.66
1:E:373:GLN:HB3	1:E:383:VAL:HG22	1.77	0.66
1:H:401:PHE:CE1	1:H:407:LEU:CD1	2.76	0.66
1:K:499:ASN:O	1:K:503:LEU:CG	2.43	0.66
1:N:386:ILE:CG2	1:N:401:PHE:CE2	2.62	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:373:GLN:HB3	1:P:383:VAL:HG22	1.77	0.66
1:Q:314:ALA:HB1	1:Q:336:LYS:C	2.20	0.66
1:S:314:ALA:HB1	1:S:336:LYS:C	2.20	0.66
1:B:314:ALA:HB1	1:B:336:LYS:C	2.20	0.66
1:D:314:ALA:HB1	1:D:336:LYS:C	2.20	0.66
1:E:117:GLN:HG3	1:J:442:ARG:HD2	1.77	0.66
1:G:364:ASP:CG	1:G:402:LYS:HZ1	2.02	0.66
1:L:173:ASN:ND2	1:L:377:VAL:HG23	2.10	0.66
1:L:499:ASN:O	1:L:503:LEU:CG	2.43	0.66
1:P:306:VAL:CG1	1:P:307:ASP:N	2.53	0.66
1:P:364:ASP:HB2	1:P:402:LYS:HZ3	1.60	0.66
1:Q:173:ASN:O	1:Q:414:THR:HG23	1.94	0.66
1:S:293:VAL:HG12	1:S:297:ALA:HB3	1.78	0.66
1:U:386:ILE:CD1	1:U:401:PHE:HE2	2.06	0.66
1:B:101:SER:CB	1:M:143:LEU:HA	2.26	0.66
1:H:77:THR:HG21	1:H:436:LEU:HD21	1.77	0.66
1:I:173:ASN:ND2	1:I:377:VAL:HG23	2.10	0.66
1:I:419:LEU:HD12	1:T:151:ASP:CG	2.19	0.66
1:I:419:LEU:HB2	1:T:151:ASP:OD1	1.94	0.66
1:J:173:ASN:ND2	1:J:377:VAL:HG23	2.10	0.66
1:K:314:ALA:HB1	1:K:336:LYS:C	2.20	0.66
1:N:373:GLN:C	1:N:382:GLU:HA	2.20	0.66
1:N:401:PHE:CE1	1:N:407:LEU:CD1	2.76	0.66
1:P:321:TYR:CD2	1:P:380:LYS:CG	2.77	0.66
1:Q:30:ARG:HE	1:Q:41:LYS:HD2	1.60	0.66
1:R:364:ASP:CG	1:R:402:LYS:HZ1	2.02	0.66
1:U:173:ASN:ND2	1:U:377:VAL:HG23	2.10	0.66
1:E:293:VAL:CG1	1:E:297:ALA:CB	2.69	0.66
1:F:30:ARG:HE	1:F:41:LYS:HD2	1.60	0.66
1:G:173:ASN:ND2	1:G:377:VAL:HG23	2.10	0.66
1:G:293:VAL:HG12	1:G:297:ALA:HB3	1.78	0.66
1:G:314:ALA:HB1	1:G:336:LYS:C	2.20	0.66
1:H:499:ASN:O	1:H:503:LEU:CG	2.43	0.66
1:I:373:GLN:HB3	1:I:383:VAL:HG22	1.77	0.66
1:J:4:ILE:CG1	1:J:501:LEU:HD12	2.02	0.66
1:L:162:ILE:O	1:L:162:ILE:CG2	2.44	0.66
1:N:364:ASP:HB2	1:N:402:LYS:HZ3	1.59	0.66
1:O:30:ARG:HE	1:O:41:LYS:HD2	1.60	0.66
1:O:480:GLN:NE2	1:T:492:GLN:HE21	1.92	0.66
1:R:162:ILE:O	1:R:162:ILE:CG2	2.44	0.66
1:S:293:VAL:CG1	1:S:297:ALA:CB	2.69	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:30:ARG:HE	1:W:41:LYS:HD2	1.60	0.66
1:J:30:ARG:HE	1:J:41:LYS:HD2	1.60	0.66
1:L:30:ARG:HE	1:L:41:LYS:HD2	1.60	0.66
1:L:293:VAL:HG12	1:L:297:ALA:HB3	1.78	0.66
1:L:373:GLN:HB3	1:L:383:VAL:HG22	1.77	0.66
1:M:386:ILE:CD1	1:M:401:PHE:HE2	2.06	0.66
1:O:173:ASN:ND2	1:O:377:VAL:HG23	2.10	0.66
1:U:293:VAL:CG1	1:U:297:ALA:CB	2.69	0.66
1:W:401:PHE:CE1	1:W:407:LEU:CD1	2.76	0.66
1:A:499:ASN:O	1:A:503:LEU:CG	2.43	0.66
1:B:162:ILE:O	1:B:162:ILE:CG2	2.44	0.66
1:C:373:GLN:HB3	1:C:383:VAL:HG23	1.53	0.66
1:E:173:ASN:ND2	1:E:377:VAL:HG23	2.10	0.66
1:E:419:LEU:HB2	1:P:151:ASP:OD1	1.94	0.66
1:F:499:ASN:O	1:F:503:LEU:CG	2.43	0.66
1:G:373:GLN:C	1:G:382:GLU:HA	2.20	0.66
1:H:13:THR:CG2	1:H:490:LEU:HD13	2.26	0.66
1:H:173:ASN:ND2	1:H:377:VAL:HG23	2.10	0.66
1:H:341:TYR:CB	1:H:374:LEU:HD12	2.18	0.66
1:J:373:GLN:HB3	1:J:383:VAL:HG22	1.77	0.66
1:N:293:VAL:HG12	1:N:297:ALA:HB3	1.78	0.66
1:P:373:GLN:C	1:P:382:GLU:HA	2.20	0.66
1:Q:314:ALA:HB2	1:Q:336:LYS:O	1.96	0.66
1:W:373:GLN:HB3	1:W:383:VAL:HG22	1.77	0.66
1:W:499:ASN:O	1:W:503:LEU:CG	2.43	0.66
1:B:77:THR:HG21	1:B:436:LEU:HD21	1.76	0.66
1:C:101:SER:HB3	1:N:143:LEU:HA	1.78	0.66
1:C:173:ASN:ND2	1:C:377:VAL:HG23	2.10	0.66
1:J:162:ILE:O	1:J:162:ILE:CG2	2.44	0.66
1:L:77:THR:HG21	1:L:436:LEU:HD21	1.76	0.66
1:L:173:ASN:O	1:L:414:THR:HG23	1.94	0.66
1:R:314:ALA:HB1	1:R:336:LYS:C	2.20	0.66
1:W:386:ILE:CD1	1:W:401:PHE:HE2	2.06	0.66
1:C:130:GLN:CD	1:H:150:ASN:HD21	2.04	0.66
1:D:162:ILE:O	1:D:162:ILE:CG2	2.44	0.66
1:D:419:LEU:HD12	1:O:151:ASP:CG	2.19	0.66
1:D:499:ASN:O	1:D:503:LEU:CG	2.43	0.66
1:E:499:ASN:O	1:E:503:LEU:CG	2.43	0.66
1:F:364:ASP:HB2	1:F:402:LYS:HZ3	1.61	0.66
1:F:485:ALA:HB2	1:L:505:ARG:NE	2.11	0.66
1:G:499:ASN:O	1:G:503:LEU:CG	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:13:THR:CG2	1:I:490:LEU:HD13	2.26	0.66
1:I:314:ALA:HB2	1:I:336:LYS:O	1.96	0.66
1:K:364:ASP:HB2	1:K:402:LYS:HZ3	1.61	0.66
1:M:130:GLN:CD	1:R:150:ASN:HD21	2.03	0.66
1:N:314:ALA:HB2	1:N:336:LYS:O	1.97	0.66
1:N:314:ALA:HB1	1:N:336:LYS:C	2.20	0.66
1:O:373:GLN:C	1:O:382:GLU:HA	2.20	0.66
1:S:173:ASN:ND2	1:S:377:VAL:HG23	2.10	0.66
1:T:386:ILE:CD1	1:T:401:PHE:HE2	2.06	0.66
1:A:114:GLU:OE2	1:Q:43:ASP:CG	2.39	0.65
1:B:114:GLU:OE2	1:R:43:ASP:CG	2.38	0.65
1:B:373:GLN:HB3	1:B:383:VAL:HG22	1.77	0.65
1:C:162:ILE:O	1:C:162:ILE:CG2	2.44	0.65
1:G:101:SER:HB3	1:R:143:LEU:HA	1.79	0.65
1:G:485:ALA:HB2	1:M:505:ARG:NE	2.11	0.65
1:I:401:PHE:CE1	1:I:407:LEU:CD1	2.76	0.65
1:I:499:ASN:O	1:I:503:LEU:CG	2.43	0.65
1:J:499:ASN:O	1:J:503:LEU:CG	2.43	0.65
1:K:13:THR:CG2	1:K:490:LEU:HD13	2.26	0.65
1:M:30:ARG:HE	1:M:41:LYS:HD2	1.60	0.65
1:N:117:GLN:OE1	1:S:442:ARG:NH1	2.29	0.65
1:P:30:ARG:HE	1:P:41:LYS:HD2	1.60	0.65
1:Q:162:ILE:O	1:Q:162:ILE:CG2	2.44	0.65
1:S:13:THR:CG2	1:S:490:LEU:HD13	2.26	0.65
1:S:314:ALA:HB2	1:S:336:LYS:O	1.96	0.65
1:U:30:ARG:HE	1:U:41:LYS:HD2	1.60	0.65
1:U:373:GLN:HB3	1:U:383:VAL:HG22	1.77	0.65
1:B:173:ASN:ND2	1:B:377:VAL:HG23	2.10	0.65
1:C:373:GLN:CB	1:C:383:VAL:HG22	2.27	0.65
1:C:499:ASN:O	1:C:503:LEU:CG	2.43	0.65
1:D:314:ALA:HB2	1:D:336:LYS:O	1.96	0.65
1:E:162:ILE:O	1:E:162:ILE:CG2	2.44	0.65
1:H:162:ILE:O	1:H:162:ILE:CG2	2.44	0.65
1:H:314:ALA:HB1	1:H:336:LYS:C	2.20	0.65
1:J:335:LEU:N	1:J:342:TYR:O	2.30	0.65
1:K:293:VAL:HG12	1:K:297:ALA:HB3	1.78	0.65
1:L:314:ALA:HB2	1:L:336:LYS:O	1.96	0.65
1:O:335:LEU:N	1:O:342:TYR:O	2.30	0.65
1:O:499:ASN:O	1:O:503:LEU:CG	2.43	0.65
1:O:501:LEU:HB3	1:O:505:ARG:HH11	1.54	0.65
1:P:162:ILE:O	1:P:162:ILE:CG2	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:173:ASN:ND2	1:Q:377:VAL:HG23	2.11	0.65
1:R:30:ARG:HE	1:R:41:LYS:HD2	1.60	0.65
1:S:77:THR:HG21	1:S:436:LEU:HD21	1.76	0.65
1:T:77:THR:HG21	1:T:436:LEU:HD21	1.76	0.65
1:W:314:ALA:HB2	1:W:336:LYS:O	1.97	0.65
1:A:13:THR:CG2	1:A:490:LEU:HD13	2.26	0.65
1:A:314:ALA:HB1	1:A:336:LYS:C	2.20	0.65
1:A:373:GLN:CB	1:A:383:VAL:HG22	2.27	0.65
1:B:13:THR:CG2	1:B:490:LEU:HD13	2.26	0.65
1:F:162:ILE:O	1:F:162:ILE:CG2	2.44	0.65
1:F:293:VAL:CG1	1:F:297:ALA:CB	2.69	0.65
1:H:30:ARG:HE	1:H:41:LYS:HD2	1.60	0.65
1:H:314:ALA:HB2	1:H:336:LYS:O	1.96	0.65
1:K:117:GLN:OE1	1:P:442:ARG:NH1	2.29	0.65
1:K:392:ASN:HB2	1:K:395:LYS:HB2	1.79	0.65
1:L:306:VAL:CG1	1:L:307:ASP:N	2.54	0.65
1:N:335:LEU:N	1:N:342:TYR:O	2.30	0.65
1:N:499:ASN:O	1:N:503:LEU:CG	2.43	0.65
1:O:162:ILE:O	1:O:162:ILE:CG2	2.44	0.65
1:P:173:ASN:ND2	1:P:377:VAL:HG23	2.11	0.65
1:P:401:PHE:CE1	1:P:407:LEU:CD1	2.76	0.65
1:Q:130:GLN:CD	1:W:150:ASN:HD21	2.05	0.65
1:R:314:ALA:HB2	1:R:336:LYS:O	1.96	0.65
1:S:373:GLN:CB	1:S:383:VAL:HG22	2.27	0.65
1:T:314:ALA:HB2	1:T:336:LYS:O	1.96	0.65
1:T:401:PHE:CE1	1:T:407:LEU:CD1	2.76	0.65
1:A:117:GLN:HG3	1:F:442:ARG:HD2	1.77	0.65
1:B:293:VAL:HG12	1:B:297:ALA:HB3	1.78	0.65
1:C:30:ARG:HE	1:C:41:LYS:HD2	1.60	0.65
1:E:13:THR:CG2	1:E:490:LEU:HD13	2.26	0.65
1:E:130:GLN:CD	1:J:150:ASN:HD21	2.04	0.65
1:E:341:TYR:CB	1:E:374:LEU:HD12	2.18	0.65
1:K:335:LEU:N	1:K:342:TYR:O	2.30	0.65
1:M:162:ILE:O	1:M:162:ILE:CG2	2.44	0.65
1:M:314:ALA:HB2	1:M:336:LYS:O	1.96	0.65
1:M:499:ASN:O	1:M:503:LEU:CG	2.43	0.65
1:P:499:ASN:O	1:P:503:LEU:CG	2.43	0.65
1:Q:13:THR:CG2	1:Q:490:LEU:HD13	2.26	0.65
1:S:162:ILE:O	1:S:162:ILE:CG2	2.44	0.65
1:T:30:ARG:HE	1:T:41:LYS:HD2	1.60	0.65
1:T:364:ASP:HB2	1:T:402:LYS:HZ2	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:13:THR:CG2	1:W:490:LEU:HD13	2.26	0.65
1:A:101:SER:CB	1:L:143:LEU:HA	2.25	0.65
1:A:364:ASP:CG	1:A:402:LYS:HZ1	2.00	0.65
1:C:13:THR:CG2	1:C:490:LEU:HD13	2.26	0.65
1:C:314:ALA:HB2	1:C:336:LYS:O	1.96	0.65
1:G:30:ARG:HE	1:G:41:LYS:HD2	1.60	0.65
1:G:373:GLN:CB	1:G:383:VAL:HG22	2.27	0.65
1:H:485:ALA:HB2	1:N:505:ARG:NE	2.12	0.65
1:J:341:TYR:CB	1:J:374:LEU:HD12	2.18	0.65
1:K:419:LEU:HB2	1:W:151:ASP:OD1	1.97	0.65
1:O:13:THR:CG2	1:O:490:LEU:HD13	2.26	0.65
1:R:13:THR:CG2	1:R:490:LEU:HD13	2.26	0.65
1:A:130:GLN:CD	1:F:150:ASN:HD21	2.04	0.65
1:C:335:LEU:HB2	1:C:342:TYR:HB2	1.79	0.65
1:F:314:ALA:HB2	1:F:336:LYS:O	1.96	0.65
1:F:373:GLN:HB3	1:F:383:VAL:HG22	1.77	0.65
1:G:162:ILE:O	1:G:162:ILE:CG2	2.44	0.65
1:G:314:ALA:HB2	1:G:336:LYS:O	1.96	0.65
1:I:162:ILE:O	1:I:162:ILE:CG2	2.44	0.65
1:J:480:GLN:NE2	1:O:492:GLN:HE21	1.94	0.65
1:K:162:ILE:O	1:K:162:ILE:CG2	2.44	0.65
1:M:77:THR:HG21	1:M:436:LEU:HD21	1.76	0.65
1:M:373:GLN:CB	1:M:383:VAL:HG22	2.27	0.65
1:N:13:THR:CG2	1:N:490:LEU:HD13	2.26	0.65
1:Q:392:ASN:HB2	1:Q:395:LYS:HB2	1.79	0.65
1:S:30:ARG:HE	1:S:41:LYS:HD2	1.60	0.65
1:U:13:THR:CG2	1:U:490:LEU:HD13	2.26	0.65
1:W:335:LEU:N	1:W:342:TYR:O	2.30	0.65
1:W:392:ASN:HB2	1:W:395:LYS:HB2	1.79	0.65
1:C:77:THR:HG21	1:C:436:LEU:HD21	1.76	0.65
1:E:401:PHE:CE1	1:E:407:LEU:CD1	2.77	0.65
1:F:392:ASN:HB2	1:F:395:LYS:HB2	1.79	0.65
1:G:35:LEU:HD23	1:R:5:ASN:ND2	2.11	0.65
1:I:335:LEU:N	1:I:342:TYR:O	2.30	0.65
1:M:364:ASP:CG	1:M:402:LYS:HZ1	2.02	0.65
1:N:162:ILE:O	1:N:162:ILE:CG2	2.44	0.65
1:O:314:ALA:HB2	1:O:336:LYS:O	1.96	0.65
1:Q:373:GLN:C	1:Q:382:GLU:HA	2.20	0.65
1:T:293:VAL:CG1	1:T:297:ALA:CB	2.69	0.65
1:T:499:ASN:O	1:T:503:LEU:CG	2.43	0.65
1:U:162:ILE:O	1:U:162:ILE:CG2	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:293:VAL:CG1	1:C:297:ALA:CB	2.69	0.65
1:D:373:GLN:HB3	1:D:383:VAL:HG22	1.77	0.65
1:E:335:LEU:N	1:E:342:TYR:O	2.30	0.65
1:G:392:ASN:HB2	1:G:395:LYS:HB2	1.79	0.65
1:J:35:LEU:HD23	1:U:5:ASN:ND2	2.10	0.65
1:K:30:ARG:HE	1:K:41:LYS:HD2	1.60	0.65
1:K:314:ALA:HB2	1:K:336:LYS:O	1.96	0.65
1:L:130:GLN:CD	1:Q:150:ASN:HD21	2.04	0.65
1:N:30:ARG:HE	1:N:41:LYS:HD2	1.60	0.65
1:P:130:GLN:CD	1:U:150:ASN:HD21	2.05	0.65
1:R:335:LEU:HB2	1:R:342:TYR:HB2	1.79	0.65
1:R:392:ASN:HB2	1:R:395:LYS:HB2	1.79	0.65
1:T:13:THR:CG2	1:T:490:LEU:HD13	2.26	0.65
1:U:392:ASN:HB2	1:U:395:LYS:HB2	1.79	0.65
1:W:341:TYR:CB	1:W:374:LEU:HD12	2.18	0.65
1:A:162:ILE:O	1:A:162:ILE:CG2	2.44	0.65
1:A:173:ASN:ND2	1:A:377:VAL:HG23	2.10	0.65
1:C:419:LEU:HD12	1:N:151:ASP:CG	2.20	0.65
1:E:101:SER:HB3	1:P:143:LEU:HA	1.79	0.65
1:G:13:THR:CG2	1:G:490:LEU:HD13	2.26	0.65
1:H:373:GLN:C	1:H:382:GLU:HA	2.20	0.65
1:H:419:LEU:HB2	1:S:151:ASP:OD1	1.97	0.65
1:I:335:LEU:HB2	1:I:342:TYR:HB2	1.79	0.65
1:J:386:ILE:CD1	1:J:401:PHE:HE2	2.05	0.65
1:J:392:ASN:HB2	1:J:395:LYS:HB2	1.79	0.65
1:J:401:PHE:CE1	1:J:407:LEU:CD1	2.76	0.65
1:L:13:THR:CG2	1:L:490:LEU:HD13	2.26	0.65
1:R:373:GLN:HB3	1:R:383:VAL:HG22	1.77	0.65
1:T:373:GLN:HB3	1:T:383:VAL:HG22	1.77	0.65
1:U:335:LEU:N	1:U:342:TYR:O	2.30	0.65
1:U:499:ASN:O	1:U:503:LEU:CG	2.43	0.65
1:A:314:ALA:HB2	1:A:336:LYS:O	1.96	0.65
1:B:335:LEU:HB2	1:B:342:TYR:HB2	1.79	0.65
1:C:373:GLN:HB3	1:C:383:VAL:HG22	1.77	0.65
1:D:101:SER:HB3	1:O:143:LEU:HA	1.79	0.65
1:D:173:ASN:ND2	1:D:377:VAL:HG23	2.10	0.65
1:D:293:VAL:CG1	1:D:297:ALA:CB	2.69	0.65
1:F:4:ILE:CG1	1:F:501:LEU:HD12	2.02	0.65
1:F:335:LEU:N	1:F:342:TYR:O	2.30	0.65
1:F:373:GLN:CB	1:F:383:VAL:HG22	2.26	0.65
1:G:335:LEU:HB2	1:G:342:TYR:HB2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:30:ARG:NH2	1:H:41:LYS:HD2	2.12	0.65
1:H:485:ALA:CB	1:N:505:ARG:NE	2.60	0.65
1:L:364:ASP:HB2	1:L:402:LYS:HZ3	1.62	0.65
1:M:335:LEU:HB2	1:M:342:TYR:HB2	1.79	0.65
1:N:341:TYR:CB	1:N:374:LEU:HD12	2.18	0.65
1:N:485:ALA:HB2	1:T:505:ARG:NE	2.11	0.65
1:P:178:TYR:CD2	1:P:378:ASP:HA	2.32	0.65
1:R:173:ASN:ND2	1:R:377:VAL:HG23	2.10	0.65
1:R:293:VAL:HG12	1:R:297:ALA:HB3	1.78	0.65
1:S:335:LEU:HB2	1:S:342:TYR:HB2	1.79	0.65
1:S:499:ASN:O	1:S:503:LEU:CG	2.44	0.65
1:W:162:ILE:CD1	1:W:432:LEU:HD13	2.13	0.65
1:A:364:ASP:HB2	1:A:402:LYS:HZ3	1.62	0.64
1:G:30:ARG:NH2	1:G:41:LYS:HD2	2.12	0.64
1:I:130:GLN:CD	1:N:150:ASN:HD21	2.05	0.64
1:J:13:THR:CG2	1:J:490:LEU:HD13	2.26	0.64
1:J:306:VAL:CG1	1:J:307:ASP:N	2.53	0.64
1:J:419:LEU:HB2	1:U:151:ASP:OD1	1.96	0.64
1:K:373:GLN:HB3	1:K:383:VAL:HG22	1.77	0.64
1:K:386:ILE:CD1	1:K:401:PHE:HE2	2.05	0.64
1:L:335:LEU:HB2	1:L:342:TYR:HB2	1.79	0.64
1:L:341:TYR:CB	1:L:374:LEU:HD12	2.18	0.64
1:N:30:ARG:NH2	1:N:41:LYS:HD2	2.12	0.64
1:N:335:LEU:HB2	1:N:342:TYR:HB2	1.79	0.64
1:R:178:TYR:CD2	1:R:378:ASP:HA	2.33	0.64
1:U:341:TYR:CB	1:U:374:LEU:HD12	2.18	0.64
1:A:101:SER:OG	1:L:143:LEU:CB	2.45	0.64
1:B:178:TYR:CD2	1:B:378:ASP:HA	2.33	0.64
1:B:314:ALA:HB2	1:B:336:LYS:O	1.96	0.64
1:D:30:ARG:HE	1:D:41:LYS:HD2	1.60	0.64
1:E:30:ARG:HE	1:E:41:LYS:HD2	1.60	0.64
1:E:314:ALA:CB	1:E:336:LYS:C	2.71	0.64
1:F:13:THR:CG2	1:F:490:LEU:HD13	2.26	0.64
1:G:178:TYR:CD2	1:G:378:ASP:HA	2.32	0.64
1:H:335:LEU:HB2	1:H:342:TYR:HB2	1.79	0.64
1:I:101:SER:HB3	1:T:143:LEU:HA	1.79	0.64
1:N:178:TYR:CD2	1:N:378:ASP:HA	2.32	0.64
1:N:480:GLN:NE2	1:S:492:GLN:HE21	1.94	0.64
1:P:314:ALA:HB2	1:P:336:LYS:O	1.96	0.64
1:Q:364:ASP:CG	1:Q:402:LYS:HZ1	2.01	0.64
1:S:373:GLN:HB3	1:S:383:VAL:HG22	1.77	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:178:TYR:CD2	1:U:378:ASP:HA	2.32	0.64
1:W:162:ILE:O	1:W:162:ILE:CG2	2.44	0.64
1:B:314:ALA:CB	1:B:336:LYS:C	2.71	0.64
1:C:35:LEU:HD23	1:N:5:ASN:ND2	2.13	0.64
1:E:178:TYR:CD2	1:E:378:ASP:HA	2.33	0.64
1:F:293:VAL:HG12	1:F:297:ALA:HB3	1.78	0.64
1:H:178:TYR:CD2	1:H:378:ASP:HA	2.33	0.64
1:I:178:TYR:CD2	1:I:378:ASP:HA	2.33	0.64
1:J:314:ALA:HB2	1:J:336:LYS:O	1.96	0.64
1:L:373:GLN:CB	1:L:383:VAL:HG22	2.26	0.64
1:L:386:ILE:CD1	1:L:401:PHE:HE2	2.06	0.64
1:M:341:TYR:CB	1:M:374:LEU:HD12	2.18	0.64
1:M:485:ALA:HB2	1:S:505:ARG:NE	2.11	0.64
1:O:178:TYR:CD2	1:O:378:ASP:HA	2.33	0.64
1:O:314:ALA:CB	1:O:336:LYS:C	2.71	0.64
1:Q:178:TYR:CD2	1:Q:378:ASP:HA	2.33	0.64
1:U:314:ALA:CB	1:U:336:LYS:C	2.71	0.64
1:A:178:TYR:CD2	1:A:378:ASP:HA	2.33	0.64
1:A:392:ASN:HB2	1:A:395:LYS:HB2	1.79	0.64
1:D:178:TYR:CD2	1:D:378:ASP:HA	2.33	0.64
1:D:341:TYR:CB	1:D:374:LEU:HD12	2.18	0.64
1:F:4:ILE:HG22	1:F:4:ILE:O	1.98	0.64
1:F:178:TYR:CD2	1:F:378:ASP:HA	2.33	0.64
1:H:314:ALA:CB	1:H:336:LYS:C	2.71	0.64
1:H:335:LEU:N	1:H:342:TYR:O	2.30	0.64
1:J:117:GLN:OE1	1:O:442:ARG:NH1	2.30	0.64
1:K:314:ALA:CB	1:K:336:LYS:C	2.71	0.64
1:L:4:ILE:HG22	1:L:4:ILE:O	1.98	0.64
1:M:13:THR:CG2	1:M:490:LEU:HD13	2.26	0.64
1:O:335:LEU:HB2	1:O:342:TYR:HB2	1.79	0.64
1:R:314:ALA:CB	1:R:336:LYS:C	2.71	0.64
1:A:335:LEU:HB2	1:A:342:TYR:HB2	1.79	0.64
1:B:130:GLN:CD	1:G:150:ASN:HD21	2.05	0.64
1:B:373:GLN:CB	1:B:383:VAL:HG22	2.26	0.64
1:D:13:THR:CG2	1:D:490:LEU:HD13	2.26	0.64
1:D:335:LEU:HB2	1:D:342:TYR:HB2	1.79	0.64
1:H:373:GLN:CB	1:H:383:VAL:HG22	2.26	0.64
1:M:30:ARG:NH2	1:M:41:LYS:HD2	2.12	0.64
1:N:373:GLN:CB	1:N:383:VAL:HG22	2.26	0.64
1:O:364:ASP:HB2	1:O:402:LYS:HZ3	1.59	0.64
1:P:386:ILE:HD13	1:P:401:PHE:CZ	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:178:TYR:CD2	1:S:378:ASP:HA	2.33	0.64
1:T:162:ILE:O	1:T:162:ILE:CG2	2.44	0.64
1:T:335:LEU:HB2	1:T:342:TYR:HB2	1.79	0.64
1:B:386:ILE:CD1	1:B:401:PHE:HE2	2.05	0.64
1:E:314:ALA:HB2	1:E:336:LYS:O	1.96	0.64
1:F:335:LEU:HB2	1:F:342:TYR:HB2	1.79	0.64
1:K:306:VAL:CG1	1:K:307:ASP:H	1.94	0.64
1:K:480:GLN:NE2	1:P:492:GLN:HE21	1.95	0.64
1:L:314:ALA:CB	1:L:336:LYS:C	2.71	0.64
1:N:373:GLN:HB3	1:N:383:VAL:HG22	1.77	0.64
1:O:117:GLN:OE1	1:T:442:ARG:NH1	2.31	0.64
1:O:386:ILE:HD13	1:O:401:PHE:CZ	2.32	0.64
1:P:13:THR:CG2	1:P:490:LEU:HD13	2.26	0.64
1:Q:335:LEU:HB2	1:Q:342:TYR:HB2	1.79	0.64
1:R:4:ILE:O	1:R:4:ILE:HG22	1.98	0.64
1:R:341:TYR:CB	1:R:374:LEU:HD12	2.18	0.64
1:U:314:ALA:HB2	1:U:336:LYS:O	1.96	0.64
1:A:373:GLN:C	1:A:382:GLU:HA	2.20	0.64
1:D:373:GLN:CB	1:D:383:VAL:HG22	2.27	0.64
1:H:373:GLN:HB3	1:H:383:VAL:HG22	1.77	0.64
1:J:335:LEU:HB2	1:J:342:TYR:HB2	1.79	0.64
1:K:178:TYR:HD2	1:K:378:ASP:CA	2.11	0.64
1:P:386:ILE:CD1	1:P:401:PHE:HE2	2.05	0.64
1:Q:314:ALA:CB	1:Q:336:LYS:C	2.71	0.64
1:W:178:TYR:HD2	1:W:378:ASP:CA	2.11	0.64
1:W:373:GLN:CB	1:W:383:VAL:HG22	2.26	0.64
1:B:30:ARG:HE	1:B:41:LYS:HD2	1.60	0.64
1:D:162:ILE:CD1	1:D:432:LEU:HD13	2.13	0.64
1:E:386:ILE:HD13	1:E:401:PHE:CZ	2.32	0.64
1:G:335:LEU:N	1:G:342:TYR:O	2.30	0.64
1:G:485:ALA:CB	1:M:505:ARG:NE	2.60	0.64
1:I:314:ALA:CB	1:I:336:LYS:C	2.71	0.64
1:L:178:TYR:CD2	1:L:378:ASP:HA	2.32	0.64
1:N:178:TYR:HD2	1:N:378:ASP:CA	2.11	0.64
1:N:306:VAL:CG1	1:N:307:ASP:H	1.94	0.64
1:O:30:ARG:NH2	1:O:41:LYS:HD2	2.12	0.64
1:Q:4:ILE:HG22	1:Q:4:ILE:O	1.98	0.64
1:S:364:ASP:CG	1:S:402:LYS:HZ1	2.02	0.64
1:T:373:GLN:CB	1:T:383:VAL:HG22	2.26	0.64
1:C:178:TYR:HD2	1:C:378:ASP:CA	2.11	0.64
1:D:314:ALA:CB	1:D:336:LYS:C	2.71	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:335:LEU:N	1:D:342:TYR:O	2.30	0.64
1:F:485:ALA:CB	1:L:505:ARG:NE	2.60	0.64
1:H:392:ASN:HB2	1:H:395:LYS:HB2	1.79	0.64
1:I:392:ASN:HB2	1:I:395:LYS:HB2	1.79	0.64
1:K:4:ILE:O	1:K:4:ILE:HG22	1.98	0.64
1:M:178:TYR:CD2	1:M:378:ASP:HA	2.33	0.64
1:R:373:GLN:CB	1:R:383:VAL:HG22	2.27	0.64
1:T:306:VAL:CG1	1:T:307:ASP:N	2.53	0.64
1:T:392:ASN:HB2	1:T:395:LYS:HB2	1.79	0.64
1:A:178:TYR:HD2	1:A:378:ASP:CA	2.11	0.64
1:A:306:VAL:CG2	1:A:340:LYS:HD2	2.28	0.64
1:A:480:GLN:CD	1:F:492:GLN:HE21	2.06	0.64
1:C:101:SER:CB	1:N:143:LEU:HA	2.28	0.64
1:C:306:VAL:CG2	1:C:340:LYS:HD2	2.28	0.64
1:C:314:ALA:CB	1:C:336:LYS:C	2.71	0.64
1:C:341:TYR:CB	1:C:374:LEU:HD12	2.18	0.64
1:I:386:ILE:CD1	1:I:401:PHE:HE2	2.05	0.64
1:J:178:TYR:HD2	1:J:378:ASP:CA	2.11	0.64
1:J:373:GLN:CB	1:J:383:VAL:HG22	2.26	0.64
1:K:335:LEU:HB2	1:K:342:TYR:HB2	1.79	0.64
1:L:178:TYR:HD2	1:L:378:ASP:CA	2.11	0.64
1:L:392:ASN:HB2	1:L:395:LYS:HB2	1.79	0.64
1:M:293:VAL:CG1	1:M:297:ALA:CB	2.69	0.64
1:O:401:PHE:CE1	1:O:407:LEU:CD1	2.76	0.64
1:P:335:LEU:HB2	1:P:342:TYR:HB2	1.79	0.64
1:P:373:GLN:CB	1:P:383:VAL:HG22	2.26	0.64
1:Q:386:ILE:CD1	1:Q:401:PHE:HE2	2.06	0.64
1:S:306:VAL:CG2	1:S:340:LYS:HD2	2.28	0.64
1:S:392:ASN:HB2	1:S:395:LYS:HB2	1.79	0.64
1:U:178:TYR:HD2	1:U:378:ASP:CA	2.11	0.64
1:B:306:VAL:CG2	1:B:340:LYS:HD2	2.28	0.63
1:B:364:ASP:HB2	1:B:402:LYS:HZ3	1.63	0.63
1:E:335:LEU:HB2	1:E:342:TYR:HB2	1.79	0.63
1:F:30:ARG:NH2	1:F:41:LYS:HD2	2.12	0.63
1:J:485:ALA:HB2	1:P:505:ARG:NE	2.12	0.63
1:K:306:VAL:CG1	1:K:307:ASP:N	2.53	0.63
1:Q:117:GLN:OE1	1:W:442:ARG:NH1	2.30	0.63
1:Q:306:VAL:CG2	1:Q:340:LYS:HD2	2.28	0.63
1:R:306:VAL:CG2	1:R:340:LYS:HD2	2.28	0.63
1:S:314:ALA:CB	1:S:336:LYS:C	2.71	0.63
1:T:178:TYR:HD2	1:T:378:ASP:CA	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:314:ALA:CB	1:T:336:LYS:C	2.71	0.63
1:T:335:LEU:N	1:T:342:TYR:O	2.30	0.63
1:W:36:ARG:O	1:W:41:LYS:HG3	1.99	0.63
1:W:178:TYR:CD2	1:W:378:ASP:HA	2.33	0.63
1:C:178:TYR:CD2	1:C:378:ASP:HA	2.33	0.63
1:D:386:ILE:HD13	1:D:401:PHE:CZ	2.32	0.63
1:E:480:GLN:CD	1:J:492:GLN:HE21	2.06	0.63
1:F:36:ARG:O	1:F:41:LYS:HG3	1.99	0.63
1:F:130:GLN:CD	1:K:150:ASN:HD21	2.05	0.63
1:H:117:GLN:OE1	1:M:442:ARG:NH1	2.31	0.63
1:I:373:GLN:C	1:I:382:GLU:HA	2.20	0.63
1:M:178:TYR:HD2	1:M:378:ASP:CA	2.11	0.63
1:N:314:ALA:CB	1:N:336:LYS:C	2.71	0.63
1:O:36:ARG:O	1:O:41:LYS:HG3	1.99	0.63
1:Q:36:ARG:O	1:Q:41:LYS:HG3	1.99	0.63
1:Q:335:LEU:N	1:Q:342:TYR:O	2.30	0.63
1:Q:373:GLN:HB3	1:Q:383:VAL:HG22	1.77	0.63
1:U:386:ILE:HD13	1:U:401:PHE:CZ	2.33	0.63
1:W:314:ALA:CB	1:W:336:LYS:C	2.71	0.63
1:A:314:ALA:CB	1:A:336:LYS:C	2.71	0.63
1:B:36:ARG:O	1:B:41:LYS:HG3	1.99	0.63
1:D:130:GLN:CD	1:I:150:ASN:HD21	2.06	0.63
1:F:101:SER:HB3	1:Q:143:LEU:HA	1.79	0.63
1:F:314:ALA:CB	1:F:336:LYS:C	2.71	0.63
1:G:101:SER:CB	1:R:143:LEU:HA	2.29	0.63
1:G:178:TYR:HD2	1:G:378:ASP:CA	2.11	0.63
1:H:364:ASP:CG	1:H:402:LYS:HZ1	2.01	0.63
1:I:35:LEU:HD23	1:T:5:ASN:ND2	2.10	0.63
1:J:36:ARG:O	1:J:41:LYS:HG3	1.98	0.63
1:J:178:TYR:CD2	1:J:378:ASP:HA	2.33	0.63
1:K:178:TYR:CD2	1:K:378:ASP:HA	2.32	0.63
1:M:341:TYR:HB2	1:M:374:LEU:HB2	1.81	0.63
1:N:485:ALA:CB	1:T:505:ARG:NE	2.61	0.63
1:Q:341:TYR:HB2	1:Q:374:LEU:HB2	1.81	0.63
1:U:335:LEU:HB2	1:U:342:TYR:HB2	1.79	0.63
1:W:386:ILE:HD13	1:W:401:PHE:CZ	2.32	0.63
1:B:178:TYR:HD2	1:B:378:ASP:CA	2.11	0.63
1:C:30:ARG:NH2	1:C:41:LYS:HD2	2.12	0.63
1:C:36:ARG:O	1:C:41:LYS:HG3	1.99	0.63
1:D:30:ARG:NH2	1:D:41:LYS:HD2	2.12	0.63
1:H:36:ARG:O	1:H:41:LYS:HG3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:178:TYR:HD2	1:H:378:ASP:HA	1.64	0.63
1:H:341:TYR:HB2	1:H:374:LEU:HB2	1.81	0.63
1:I:178:TYR:HD2	1:I:378:ASP:CA	2.11	0.63
1:J:314:ALA:CB	1:J:336:LYS:C	2.71	0.63
1:K:36:ARG:O	1:K:41:LYS:HG3	1.99	0.63
1:M:306:VAL:CG2	1:M:340:LYS:HD2	2.28	0.63
1:P:314:ALA:CB	1:P:336:LYS:C	2.71	0.63
1:P:335:LEU:N	1:P:342:TYR:O	2.30	0.63
1:P:392:ASN:HB2	1:P:395:LYS:HB2	1.79	0.63
1:Q:386:ILE:HD13	1:Q:401:PHE:CZ	2.32	0.63
1:S:178:TYR:HD2	1:S:378:ASP:HA	1.64	0.63
1:W:293:VAL:HG12	1:W:297:ALA:HB3	1.78	0.63
1:A:36:ARG:O	1:A:41:LYS:HG3	1.99	0.63
1:A:335:LEU:N	1:A:342:TYR:O	2.30	0.63
1:A:341:TYR:HB2	1:A:374:LEU:HB2	1.81	0.63
1:A:485:ALA:HB2	1:G:505:ARG:NE	2.14	0.63
1:B:341:TYR:HB2	1:B:374:LEU:HB2	1.81	0.63
1:C:480:GLN:CD	1:H:492:GLN:HE21	2.06	0.63
1:D:101:SER:CB	1:O:143:LEU:HA	2.29	0.63
1:E:4:ILE:O	1:E:4:ILE:HG22	1.98	0.63
1:F:162:ILE:CD1	1:F:432:LEU:HD13	2.13	0.63
1:G:4:ILE:O	1:G:4:ILE:HG22	1.98	0.63
1:G:341:TYR:HB2	1:G:374:LEU:HB2	1.81	0.63
1:I:364:ASP:HB2	1:I:402:LYS:HZ3	1.61	0.63
1:J:130:GLN:CD	1:O:150:ASN:HD21	2.06	0.63
1:K:341:TYR:HB2	1:K:374:LEU:HB2	1.81	0.63
1:L:480:GLN:CD	1:Q:492:GLN:HE21	2.07	0.63
1:M:155:ILE:HB	1:M:443:PHE:HE1	1.64	0.63
1:M:364:ASP:HB2	1:M:402:LYS:HZ3	1.64	0.63
1:R:162:ILE:CD1	1:R:432:LEU:HD13	2.13	0.63
1:R:373:GLN:C	1:R:382:GLU:HA	2.20	0.63
1:S:36:ARG:O	1:S:41:LYS:HG3	1.99	0.63
1:S:341:TYR:HB2	1:S:374:LEU:HB2	1.81	0.63
1:T:178:TYR:CD2	1:T:378:ASP:HA	2.33	0.63
1:T:501:LEU:HB3	1:T:505:ARG:HH11	1.54	0.63
1:W:335:LEU:HB2	1:W:342:TYR:HB2	1.79	0.63
1:W:341:TYR:HB2	1:W:374:LEU:HB2	1.81	0.63
1:A:4:ILE:HG22	1:A:4:ILE:O	1.98	0.63
1:B:386:ILE:HD13	1:B:401:PHE:CZ	2.33	0.63
1:C:178:TYR:HD2	1:C:378:ASP:HA	1.64	0.63
1:C:392:ASN:HB2	1:C:395:LYS:HB2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:386:ILE:HD13	1:F:401:PHE:CZ	2.32	0.63
1:G:364:ASP:HB2	1:G:402:LYS:HZ3	1.64	0.63
1:H:364:ASP:HB2	1:H:402:LYS:HZ3	1.63	0.63
1:J:155:ILE:HB	1:J:443:PHE:HE1	1.64	0.63
1:J:373:GLN:C	1:J:382:GLU:HA	2.20	0.63
1:K:178:TYR:HD2	1:K:378:ASP:HA	1.64	0.63
1:L:306:VAL:CG2	1:L:340:LYS:HD2	2.28	0.63
1:L:335:LEU:N	1:L:342:TYR:O	2.30	0.63
1:M:36:ARG:O	1:M:41:LYS:HG3	1.99	0.63
1:N:178:TYR:HD2	1:N:378:ASP:HA	1.64	0.63
1:N:341:TYR:HB2	1:N:374:LEU:HB2	1.81	0.63
1:N:392:ASN:HB2	1:N:395:LYS:HB2	1.79	0.63
1:O:155:ILE:HB	1:O:443:PHE:HE1	1.64	0.63
1:P:341:TYR:HB2	1:P:374:LEU:HB2	1.81	0.63
1:T:30:ARG:NH2	1:T:41:LYS:HD2	2.12	0.63
1:T:36:ARG:O	1:T:41:LYS:HG3	1.99	0.63
1:T:155:ILE:HB	1:T:443:PHE:HE1	1.64	0.63
1:W:30:ARG:NH2	1:W:41:LYS:HD2	2.12	0.63
1:D:501:LEU:HB3	1:D:505:ARG:HH11	1.54	0.63
1:E:30:ARG:NH2	1:E:41:LYS:HD2	2.12	0.63
1:E:155:ILE:HB	1:E:443:PHE:HE1	1.64	0.63
1:E:392:ASN:HB2	1:E:395:LYS:HB2	1.79	0.63
1:F:178:TYR:HD2	1:F:378:ASP:CA	2.11	0.63
1:G:314:ALA:CB	1:G:336:LYS:C	2.71	0.63
1:J:30:ARG:NH2	1:J:41:LYS:HD2	2.12	0.63
1:J:306:VAL:CG2	1:J:340:LYS:HD2	2.28	0.63
1:M:178:TYR:HD2	1:M:378:ASP:HA	1.64	0.63
1:M:314:ALA:CB	1:M:336:LYS:C	2.71	0.63
1:M:373:GLN:HB3	1:M:383:VAL:HG22	1.77	0.63
1:P:30:ARG:NH2	1:P:41:LYS:HD2	2.12	0.63
1:P:117:GLN:OE1	1:U:442:ARG:NH1	2.32	0.63
1:R:178:TYR:HD2	1:R:378:ASP:CA	2.11	0.63
1:R:341:TYR:HB2	1:R:374:LEU:HB2	1.81	0.63
1:U:155:ILE:HB	1:U:443:PHE:HE1	1.64	0.63
1:A:386:ILE:CD1	1:A:401:PHE:HE2	2.05	0.63
1:G:36:ARG:O	1:G:41:LYS:HG3	1.99	0.63
1:G:130:GLN:CD	1:L:150:ASN:HD21	2.06	0.63
1:H:306:VAL:CG2	1:H:340:LYS:HD2	2.29	0.63
1:I:101:SER:CB	1:T:143:LEU:HA	2.29	0.63
1:I:306:VAL:CG2	1:I:340:LYS:HD2	2.28	0.63
1:K:155:ILE:HB	1:K:443:PHE:HE1	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:30:ARG:NH2	1:L:41:LYS:HD2	2.12	0.63
1:L:341:TYR:HB2	1:L:374:LEU:HB2	1.81	0.63
1:M:4:ILE:O	1:M:4:ILE:HG22	1.98	0.63
1:M:293:VAL:HG12	1:M:297:ALA:HB3	1.78	0.63
1:N:36:ARG:O	1:N:41:LYS:HG3	1.99	0.63
1:N:386:ILE:HD13	1:N:401:PHE:CZ	2.32	0.63
1:O:485:ALA:CB	1:U:505:ARG:NE	2.62	0.63
1:S:45:ALA:O	1:S:49:ILE:CD1	2.46	0.63
1:S:364:ASP:HB2	1:S:402:LYS:HZ3	1.64	0.63
1:S:386:ILE:CD1	1:S:401:PHE:HE2	2.06	0.63
1:T:293:VAL:HG12	1:T:297:ALA:HB3	1.78	0.63
1:W:178:TYR:HD2	1:W:378:ASP:HA	1.64	0.63
1:A:178:TYR:CD2	1:A:378:ASP:CA	2.82	0.63
1:B:4:ILE:O	1:B:4:ILE:HG22	1.98	0.63
1:B:155:ILE:HB	1:B:443:PHE:HE1	1.64	0.63
1:B:501:LEU:HB3	1:B:505:ARG:HH12	0.81	0.63
1:C:45:ALA:O	1:C:49:ILE:CD1	2.46	0.63
1:C:341:TYR:HB2	1:C:374:LEU:HB2	1.81	0.63
1:D:155:ILE:HB	1:D:443:PHE:HE1	1.64	0.63
1:F:117:GLN:OE1	1:K:442:ARG:NH1	2.32	0.63
1:F:341:TYR:HB2	1:F:374:LEU:HB2	1.81	0.63
1:G:306:VAL:CG2	1:G:340:LYS:HD2	2.28	0.63
1:H:155:ILE:HB	1:H:443:PHE:HE1	1.64	0.63
1:H:178:TYR:HD2	1:H:378:ASP:CA	2.11	0.63
1:I:341:TYR:HB2	1:I:374:LEU:HB2	1.81	0.63
1:K:178:TYR:CD2	1:K:378:ASP:CA	2.82	0.63
1:M:480:GLN:CD	1:R:492:GLN:HE21	2.06	0.63
1:M:485:ALA:CB	1:S:505:ARG:NE	2.61	0.63
1:N:130:GLN:CD	1:S:150:ASN:HD21	2.06	0.63
1:O:45:ALA:O	1:O:49:ILE:CD1	2.46	0.63
1:Q:178:TYR:CD2	1:Q:378:ASP:CA	2.82	0.63
1:Q:178:TYR:HD2	1:Q:378:ASP:CA	2.11	0.63
1:R:178:TYR:CD2	1:R:378:ASP:CA	2.82	0.63
1:W:155:ILE:HB	1:W:443:PHE:HE1	1.64	0.63
1:A:373:GLN:HB3	1:A:383:VAL:HG22	1.77	0.62
1:B:178:TYR:CD2	1:B:378:ASP:CA	2.82	0.62
1:D:36:ARG:O	1:D:41:LYS:HG3	1.99	0.62
1:E:101:SER:CB	1:P:143:LEU:HA	2.28	0.62
1:J:101:SER:HB3	1:U:143:LEU:HA	1.81	0.62
1:K:30:ARG:NH2	1:K:41:LYS:HD2	2.12	0.62
1:K:306:VAL:CG2	1:K:340:LYS:HD2	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:155:ILE:HB	1:L:443:PHE:HE1	1.64	0.62
1:O:130:GLN:CD	1:T:150:ASN:HD21	2.07	0.62
1:O:306:VAL:CG2	1:O:340:LYS:HD2	2.28	0.62
1:P:293:VAL:CG1	1:P:297:ALA:CB	2.69	0.62
1:T:306:VAL:CG2	1:T:340:LYS:HD2	2.28	0.62
1:T:386:ILE:HD13	1:T:401:PHE:CZ	2.33	0.62
1:U:4:ILE:O	1:U:4:ILE:HG22	1.98	0.62
1:U:178:TYR:HD2	1:U:378:ASP:HA	1.64	0.62
1:A:293:VAL:HG12	1:A:297:ALA:HB3	1.78	0.62
1:B:335:LEU:N	1:B:342:TYR:O	2.30	0.62
1:C:155:ILE:HB	1:C:443:PHE:HE1	1.64	0.62
1:D:4:ILE:HG22	1:D:4:ILE:O	1.98	0.62
1:E:36:ARG:O	1:E:41:LYS:HG3	1.99	0.62
1:E:178:TYR:HD2	1:E:378:ASP:CA	2.11	0.62
1:F:306:VAL:CG2	1:F:340:LYS:HD2	2.28	0.62
1:I:45:ALA:O	1:I:49:ILE:CD1	2.46	0.62
1:J:178:TYR:HD2	1:J:378:ASP:HA	1.64	0.62
1:J:341:TYR:HB2	1:J:374:LEU:HB2	1.81	0.62
1:L:36:ARG:O	1:L:41:LYS:HG3	1.99	0.62
1:L:178:TYR:CD2	1:L:378:ASP:CA	2.82	0.62
1:N:155:ILE:HB	1:N:443:PHE:HE1	1.64	0.62
1:N:306:VAL:CG2	1:N:340:LYS:HD2	2.28	0.62
1:O:341:TYR:HB2	1:O:374:LEU:HB2	1.81	0.62
1:P:36:ARG:O	1:P:41:LYS:HG3	1.99	0.62
1:P:178:TYR:HD2	1:P:378:ASP:CA	2.11	0.62
1:S:30:ARG:NH2	1:S:41:LYS:HD2	2.12	0.62
1:S:162:ILE:CD1	1:S:432:LEU:HD13	2.13	0.62
1:T:4:ILE:HG22	1:T:4:ILE:O	1.98	0.62
1:U:30:ARG:NH2	1:U:41:LYS:HD2	2.12	0.62
1:W:30:ARG:HH21	1:W:41:LYS:CD	2.12	0.62
1:C:485:ALA:HB2	1:I:505:ARG:NE	2.14	0.62
1:D:178:TYR:HD2	1:D:378:ASP:CA	2.11	0.62
1:D:306:VAL:CG1	1:D:307:ASP:N	2.53	0.62
1:D:392:ASN:HB2	1:D:395:LYS:HB2	1.79	0.62
1:E:341:TYR:HB2	1:E:374:LEU:HB2	1.81	0.62
1:F:155:ILE:HB	1:F:443:PHE:HE1	1.64	0.62
1:G:178:TYR:CD2	1:G:378:ASP:CA	2.82	0.62
1:H:178:TYR:CD2	1:H:378:ASP:CA	2.82	0.62
1:H:501:LEU:HB3	1:H:505:ARG:HH12	0.81	0.62
1:I:178:TYR:HD2	1:I:378:ASP:HA	1.64	0.62
1:I:480:GLN:CD	1:N:492:GLN:HE21	2.08	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:45:ALA:O	1:J:49:ILE:CD1	2.46	0.62
1:P:178:TYR:CD2	1:P:378:ASP:CA	2.82	0.62
1:Q:30:ARG:NH2	1:Q:41:LYS:HD2	2.12	0.62
1:S:178:TYR:HD2	1:S:378:ASP:CA	2.11	0.62
1:S:501:LEU:HB3	1:S:505:ARG:HH12	0.81	0.62
1:T:341:TYR:HB2	1:T:374:LEU:HB2	1.81	0.62
1:W:306:VAL:CG2	1:W:340:LYS:HD2	2.28	0.62
1:A:386:ILE:HD13	1:A:401:PHE:CZ	2.33	0.62
1:B:101:SER:OG	1:M:143:LEU:CB	2.45	0.62
1:C:335:LEU:N	1:C:342:TYR:O	2.30	0.62
1:D:117:GLN:OE1	1:I:442:ARG:NH1	2.31	0.62
1:E:306:VAL:CG2	1:E:340:LYS:HD2	2.28	0.62
1:G:386:ILE:CD1	1:G:401:PHE:HE2	2.05	0.62
1:H:101:SER:HB3	1:S:143:LEU:HA	1.82	0.62
1:I:162:ILE:CD1	1:I:432:LEU:HD13	2.13	0.62
1:J:30:ARG:HH21	1:J:41:LYS:CD	2.13	0.62
1:J:178:TYR:CD2	1:J:378:ASP:CA	2.82	0.62
1:K:373:GLN:C	1:K:382:GLU:HA	2.20	0.62
1:K:485:ALA:HB2	1:Q:505:ARG:NE	2.13	0.62
1:L:485:ALA:HB2	1:R:505:ARG:NE	2.15	0.62
1:O:30:ARG:HH21	1:O:41:LYS:CD	2.13	0.62
1:P:341:TYR:CB	1:P:374:LEU:HD12	2.18	0.62
1:Q:30:ARG:HH21	1:Q:41:LYS:CD	2.13	0.62
1:R:36:ARG:O	1:R:41:LYS:HG3	1.99	0.62
1:R:386:ILE:CD1	1:R:401:PHE:HE2	2.05	0.62
1:S:335:LEU:N	1:S:342:TYR:O	2.30	0.62
1:T:341:TYR:CB	1:T:374:LEU:HD12	2.18	0.62
1:U:178:TYR:CD2	1:U:378:ASP:CA	2.82	0.62
1:U:341:TYR:HB2	1:U:374:LEU:HB2	1.81	0.62
1:W:4:ILE:O	1:W:4:ILE:HG22	1.98	0.62
1:C:4:ILE:O	1:C:4:ILE:HG22	1.98	0.62
1:D:341:TYR:HB2	1:D:374:LEU:HB2	1.81	0.62
1:F:178:TYR:CD2	1:F:378:ASP:CA	2.82	0.62
1:F:341:TYR:CB	1:F:374:LEU:HD12	2.18	0.62
1:K:341:TYR:CB	1:K:374:LEU:HD12	2.18	0.62
1:M:178:TYR:CD2	1:M:378:ASP:CA	2.82	0.62
1:N:143:LEU:O	1:N:156:ASP:OD1	2.18	0.62
1:O:143:LEU:O	1:O:156:ASP:OD1	2.18	0.62
1:O:178:TYR:HD2	1:O:378:ASP:CA	2.11	0.62
1:P:306:VAL:CG2	1:P:340:LYS:HD2	2.28	0.62
1:R:155:ILE:HB	1:R:443:PHE:HE1	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:335:LEU:N	1:R:342:TYR:O	2.30	0.62
1:S:178:TYR:CD2	1:S:378:ASP:CA	2.82	0.62
1:B:392:ASN:HB2	1:B:395:LYS:HB2	1.79	0.62
1:C:501:LEU:HB3	1:C:505:ARG:HH12	0.81	0.62
1:D:306:VAL:CG2	1:D:340:LYS:HD2	2.28	0.62
1:E:30:ARG:HH21	1:E:41:LYS:CD	2.13	0.62
1:F:23:ALA:O	1:F:26:THR:HG22	2.00	0.62
1:F:101:SER:CB	1:Q:143:LEU:HA	2.28	0.62
1:G:155:ILE:HB	1:G:443:PHE:HE1	1.64	0.62
1:H:130:GLN:CD	1:M:150:ASN:HD21	2.07	0.62
1:H:143:LEU:O	1:H:156:ASP:OD1	2.18	0.62
1:I:143:LEU:O	1:I:156:ASP:OD1	2.18	0.62
1:L:117:GLN:OE1	1:Q:442:ARG:NH1	2.33	0.62
1:M:392:ASN:HB2	1:M:395:LYS:HB2	1.79	0.62
1:M:481:ILE:CD1	1:S:498:GLN:HB3	2.29	0.62
1:O:485:ALA:HB2	1:U:505:ARG:NE	2.13	0.62
1:P:4:ILE:CG1	1:P:501:LEU:HD12	2.02	0.62
1:R:501:LEU:HB3	1:R:505:ARG:HH12	0.81	0.62
1:S:155:ILE:HB	1:S:443:PHE:HE1	1.64	0.62
1:B:30:ARG:NH2	1:B:41:LYS:HD2	2.12	0.62
1:C:386:ILE:HD13	1:C:401:PHE:CZ	2.32	0.62
1:D:45:ALA:O	1:D:49:ILE:CD1	2.46	0.62
1:M:143:LEU:O	1:M:156:ASP:OD1	2.18	0.62
1:N:386:ILE:CD1	1:N:401:PHE:HE2	2.06	0.62
1:N:481:ILE:CD1	1:T:498:GLN:HB3	2.30	0.62
1:O:386:ILE:CD1	1:O:401:PHE:HE2	2.05	0.62
1:S:143:LEU:O	1:S:156:ASP:OD1	2.18	0.62
1:U:36:ARG:O	1:U:41:LYS:HG3	1.99	0.62
1:U:306:VAL:CG2	1:U:340:LYS:HD2	2.28	0.62
1:W:178:TYR:CD2	1:W:378:ASP:CA	2.82	0.62
1:A:23:ALA:O	1:A:26:THR:HG22	2.00	0.62
1:A:30:ARG:HH21	1:A:41:LYS:CD	2.13	0.62
1:B:23:ALA:O	1:B:26:THR:HG22	2.00	0.62
1:B:45:ALA:O	1:B:49:ILE:CD1	2.46	0.62
1:D:143:LEU:O	1:D:156:ASP:OD1	2.18	0.62
1:E:23:ALA:O	1:E:26:THR:HG22	2.00	0.62
1:F:30:ARG:HH21	1:F:41:LYS:CD	2.13	0.62
1:F:178:TYR:HD2	1:F:378:ASP:HA	1.64	0.62
1:G:386:ILE:HD13	1:G:401:PHE:CZ	2.32	0.62
1:G:481:ILE:CD1	1:M:498:GLN:HB3	2.30	0.62
1:H:386:ILE:HD13	1:H:401:PHE:CZ	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:386:ILE:HD13	1:K:401:PHE:CZ	2.32	0.62
1:M:306:VAL:CG1	1:M:307:ASP:H	1.94	0.62
1:M:335:LEU:N	1:M:342:TYR:O	2.30	0.62
1:O:392:ASN:HB2	1:O:395:LYS:HB2	1.79	0.62
1:P:485:ALA:HB2	1:W:505:ARG:NE	2.15	0.62
1:S:4:ILE:O	1:S:4:ILE:HG22	1.98	0.62
1:T:30:ARG:HH21	1:T:41:LYS:CD	2.13	0.62
1:B:162:ILE:CD1	1:B:432:LEU:HD13	2.13	0.62
1:C:143:LEU:O	1:C:156:ASP:OD1	2.18	0.62
1:E:178:TYR:CD2	1:E:378:ASP:CA	2.82	0.62
1:G:23:ALA:O	1:G:26:THR:HG22	2.00	0.62
1:G:373:GLN:HB3	1:G:383:VAL:HG22	1.77	0.62
1:H:4:ILE:O	1:H:4:ILE:HG22	1.98	0.62
1:H:162:ILE:CD1	1:H:432:LEU:HD13	2.13	0.62
1:I:4:ILE:HG22	1:I:4:ILE:O	1.98	0.62
1:I:36:ARG:O	1:I:41:LYS:HG3	1.99	0.62
1:I:501:LEU:HB3	1:I:505:ARG:HH12	0.81	0.62
1:J:143:LEU:O	1:J:156:ASP:OD1	2.18	0.62
1:J:386:ILE:HD13	1:J:401:PHE:CZ	2.32	0.62
1:M:162:ILE:CD1	1:M:432:LEU:HD13	2.13	0.62
1:M:501:LEU:HB3	1:M:505:ARG:HH12	0.81	0.62
1:T:143:LEU:O	1:T:156:ASP:OD1	2.18	0.62
1:A:341:TYR:CB	1:A:374:LEU:HD12	2.18	0.62
1:C:485:ALA:CB	1:I:505:ARG:NE	2.63	0.62
1:D:30:ARG:HH21	1:D:41:LYS:CD	2.13	0.62
1:D:178:TYR:CD2	1:D:378:ASP:CA	2.82	0.62
1:D:178:TYR:HD2	1:D:378:ASP:HA	1.64	0.62
1:G:117:GLN:OE1	1:L:442:ARG:NH1	2.32	0.62
1:I:155:ILE:HB	1:I:443:PHE:HE1	1.64	0.62
1:J:485:ALA:CB	1:P:505:ARG:NE	2.62	0.62
1:K:130:GLN:CD	1:P:150:ASN:HD21	2.08	0.62
1:L:30:ARG:HH21	1:L:41:LYS:CD	2.13	0.62
1:M:23:ALA:O	1:M:26:THR:HG22	2.00	0.62
1:O:4:ILE:O	1:O:4:ILE:HG22	1.98	0.62
1:P:4:ILE:O	1:P:4:ILE:HG22	1.98	0.62
1:T:45:ALA:O	1:T:49:ILE:CD1	2.46	0.62
1:B:143:LEU:O	1:B:156:ASP:OD1	2.18	0.61
1:B:405:PRO:O	1:B:406:GLU:HG3	2.00	0.61
1:G:501:LEU:HB3	1:G:505:ARG:HH12	0.81	0.61
1:I:117:GLN:OE1	1:N:442:ARG:NH1	2.33	0.61
1:I:178:TYR:CD2	1:I:378:ASP:CA	2.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:30:ARG:HH21	1:K:41:LYS:CD	2.13	0.61
1:N:45:ALA:O	1:N:49:ILE:CD1	2.46	0.61
1:N:162:ILE:CD1	1:N:432:LEU:HD13	2.13	0.61
1:N:178:TYR:CD2	1:N:378:ASP:CA	2.82	0.61
1:O:293:VAL:HG12	1:O:297:ALA:HB3	1.78	0.61
1:P:155:ILE:HB	1:P:443:PHE:HE1	1.64	0.61
1:P:485:ALA:CB	1:W:505:ARG:NE	2.63	0.61
1:Q:293:VAL:CG1	1:Q:297:ALA:CB	2.69	0.61
1:R:31:LEU:CD2	1:R:469:TYR:CD1	2.67	0.61
1:R:386:ILE:HD13	1:R:401:PHE:CZ	2.32	0.61
1:T:178:TYR:CD2	1:T:378:ASP:CA	2.82	0.61
1:W:23:ALA:O	1:W:26:THR:HG22	2.00	0.61
1:C:23:ALA:O	1:C:26:THR:HG22	2.00	0.61
1:C:30:ARG:HH21	1:C:41:LYS:CD	2.13	0.61
1:C:405:PRO:O	1:C:406:GLU:HG3	2.00	0.61
1:G:143:LEU:O	1:G:156:ASP:OD1	2.18	0.61
1:G:480:GLN:CD	1:L:492:GLN:HE21	2.08	0.61
1:H:364:ASP:OD2	1:H:402:LYS:NZ	2.33	0.61
1:K:101:SER:HB3	1:W:143:LEU:HA	1.81	0.61
1:N:4:ILE:HG22	1:N:4:ILE:O	1.98	0.61
1:Q:23:ALA:O	1:Q:26:THR:HG22	2.00	0.61
1:Q:69:ASP:OD1	1:Q:131:PHE:CE2	2.54	0.61
1:Q:155:ILE:HB	1:Q:443:PHE:HE1	1.64	0.61
1:Q:162:ILE:HG23	1:Q:167:LEU:HD21	1.83	0.61
1:Q:293:VAL:HG12	1:Q:297:ALA:HB3	1.78	0.61
1:Q:364:ASP:OD2	1:Q:402:LYS:NZ	2.33	0.61
1:Q:405:PRO:O	1:Q:406:GLU:HG3	2.00	0.61
1:U:364:ASP:OD2	1:U:402:LYS:NZ	2.33	0.61
1:W:364:ASP:OD2	1:W:402:LYS:NZ	2.33	0.61
1:A:30:ARG:NH2	1:A:41:LYS:HD2	2.12	0.61
1:A:419:LEU:HD12	1:L:151:ASP:HA	1.82	0.61
1:A:485:ALA:CB	1:G:505:ARG:NE	2.63	0.61
1:A:501:LEU:HB3	1:A:505:ARG:HH12	0.81	0.61
1:B:419:LEU:HD12	1:M:151:ASP:HA	1.82	0.61
1:B:480:GLN:CD	1:G:492:GLN:HE21	2.08	0.61
1:C:364:ASP:OD2	1:C:402:LYS:NZ	2.33	0.61
1:C:364:ASP:HB2	1:C:402:LYS:HZ3	1.63	0.61
1:D:364:ASP:OD2	1:D:402:LYS:NZ	2.33	0.61
1:E:162:ILE:HG23	1:E:167:LEU:HD21	1.83	0.61
1:E:178:TYR:HD2	1:E:378:ASP:HA	1.64	0.61
1:E:364:ASP:OD2	1:E:402:LYS:NZ	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:293:VAL:CG1	1:G:297:ALA:CB	2.69	0.61
1:H:45:ALA:O	1:H:49:ILE:CD1	2.46	0.61
1:H:405:PRO:O	1:H:406:GLU:HG3	2.00	0.61
1:I:364:ASP:OD2	1:I:402:LYS:NZ	2.33	0.61
1:K:23:ALA:O	1:K:26:THR:HG22	2.00	0.61
1:K:162:ILE:HG23	1:K:167:LEU:HD21	1.83	0.61
1:L:23:ALA:O	1:L:26:THR:HG22	2.00	0.61
1:M:360:TYR:CE1	1:M:386:ILE:CG1	2.82	0.61
1:P:23:ALA:O	1:P:26:THR:HG22	2.00	0.61
1:P:143:LEU:O	1:P:156:ASP:OD1	2.18	0.61
1:P:364:ASP:OD2	1:P:402:LYS:NZ	2.33	0.61
1:R:162:ILE:HG23	1:R:167:LEU:HD21	1.82	0.61
1:T:178:TYR:HD2	1:T:378:ASP:HA	1.64	0.61
1:U:306:VAL:CG1	1:U:307:ASP:N	2.53	0.61
1:D:386:ILE:CD1	1:D:401:PHE:HE2	2.06	0.61
1:E:69:ASP:OD1	1:E:131:PHE:CE2	2.54	0.61
1:F:101:SER:OG	1:Q:143:LEU:CB	2.48	0.61
1:H:30:ARG:HH21	1:H:41:LYS:CD	2.13	0.61
1:H:481:ILE:CD1	1:N:498:GLN:HB3	2.30	0.61
1:I:485:ALA:CB	1:O:505:ARG:NE	2.64	0.61
1:J:4:ILE:O	1:J:4:ILE:HG22	1.98	0.61
1:K:485:ALA:CB	1:Q:505:ARG:NE	2.63	0.61
1:M:386:ILE:HD13	1:M:401:PHE:CZ	2.32	0.61
1:R:89:GLN:OE1	1:R:89:GLN:HA	2.01	0.61
1:R:143:LEU:O	1:R:156:ASP:OD1	2.18	0.61
1:R:405:PRO:O	1:R:406:GLU:HG3	2.00	0.61
1:S:341:TYR:CB	1:S:374:LEU:HD12	2.18	0.61
1:S:386:ILE:HD13	1:S:401:PHE:CZ	2.32	0.61
1:T:501:LEU:HB3	1:T:505:ARG:HH12	0.81	0.61
1:U:143:LEU:O	1:U:156:ASP:OD1	2.18	0.61
1:U:162:ILE:HG23	1:U:167:LEU:HD21	1.83	0.61
1:W:69:ASP:OD1	1:W:131:PHE:CE2	2.54	0.61
1:A:162:ILE:HG23	1:A:167:LEU:HD21	1.83	0.61
1:D:23:ALA:O	1:D:26:THR:HG22	2.00	0.61
1:D:293:VAL:HG12	1:D:297:ALA:HB3	1.78	0.61
1:F:162:ILE:HG23	1:F:167:LEU:HD21	1.83	0.61
1:I:69:ASP:OD1	1:I:131:PHE:CE2	2.54	0.61
1:J:69:ASP:OD1	1:J:131:PHE:CE2	2.54	0.61
1:J:162:ILE:HG23	1:J:167:LEU:HD21	1.83	0.61
1:K:69:ASP:OD1	1:K:131:PHE:CE2	2.54	0.61
1:K:405:PRO:O	1:K:406:GLU:HG3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:501:LEU:HB3	1:L:505:ARG:HH12	0.81	0.61
1:M:30:ARG:HH21	1:M:41:LYS:CD	2.12	0.61
1:M:364:ASP:OD2	1:M:402:LYS:NZ	2.33	0.61
1:N:501:LEU:HB3	1:N:505:ARG:HH12	0.81	0.61
1:O:178:TYR:CD2	1:O:378:ASP:CA	2.82	0.61
1:P:162:ILE:HG23	1:P:167:LEU:HD21	1.83	0.61
1:S:360:TYR:CE1	1:S:386:ILE:CG1	2.82	0.61
1:T:364:ASP:OD2	1:T:402:LYS:NZ	2.33	0.61
1:A:69:ASP:OD1	1:A:131:PHE:CE2	2.54	0.61
1:B:89:GLN:OE1	1:B:89:GLN:HA	2.01	0.61
1:C:306:VAL:CG1	1:C:307:ASP:H	1.94	0.61
1:D:162:ILE:HG23	1:D:167:LEU:HD21	1.83	0.61
1:F:35:LEU:HD23	1:Q:5:ASN:ND2	2.13	0.61
1:G:463:ARG:HH11	1:G:463:ARG:CG	2.14	0.61
1:H:23:ALA:O	1:H:26:THR:HG22	2.00	0.61
1:H:101:SER:CB	1:S:143:LEU:HA	2.31	0.61
1:H:293:VAL:HG12	1:H:297:ALA:HB3	1.78	0.61
1:I:89:GLN:HA	1:I:89:GLN:OE1	2.01	0.61
1:L:69:ASP:OD1	1:L:131:PHE:CE2	2.54	0.61
1:L:162:ILE:HG23	1:L:167:LEU:HD21	1.83	0.61
1:L:386:ILE:HD13	1:L:401:PHE:CZ	2.33	0.61
1:M:117:GLN:OE1	1:R:442:ARG:NH1	2.33	0.61
1:M:405:PRO:O	1:M:406:GLU:HG3	2.00	0.61
1:N:23:ALA:O	1:N:26:THR:HG22	2.00	0.61
1:N:69:ASP:OD1	1:N:131:PHE:CE2	2.54	0.61
1:N:405:PRO:O	1:N:406:GLU:HG3	2.00	0.61
1:O:69:ASP:OD1	1:O:131:PHE:CE2	2.54	0.61
1:O:293:VAL:CG1	1:O:297:ALA:CB	2.69	0.61
1:P:480:GLN:CD	1:U:492:GLN:HE21	2.08	0.61
1:S:23:ALA:O	1:S:26:THR:HG22	2.00	0.61
1:S:30:ARG:HH21	1:S:41:LYS:CD	2.13	0.61
1:A:155:ILE:HB	1:A:443:PHE:HE1	1.64	0.61
1:B:147:VAL:O	1:B:147:VAL:HG12	2.01	0.61
1:C:101:SER:OG	1:N:143:LEU:CB	2.47	0.61
1:E:143:LEU:O	1:E:156:ASP:OD1	2.18	0.61
1:F:147:VAL:HG12	1:F:147:VAL:O	2.01	0.61
1:G:162:ILE:HG23	1:G:167:LEU:HD21	1.83	0.61
1:H:89:GLN:OE1	1:H:89:GLN:HA	2.01	0.61
1:I:405:PRO:O	1:I:406:GLU:HG3	2.00	0.61
1:L:364:ASP:OD2	1:L:402:LYS:NZ	2.33	0.61
1:L:405:PRO:O	1:L:406:GLU:HG3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:293:VAL:CG1	1:N:297:ALA:CB	2.69	0.61
1:P:69:ASP:OD1	1:P:131:PHE:CE2	2.54	0.61
1:P:178:TYR:HD2	1:P:378:ASP:HA	1.64	0.61
1:U:293:VAL:HG12	1:U:297:ALA:HB3	1.78	0.61
1:C:178:TYR:CD2	1:C:378:ASP:CA	2.82	0.61
1:E:89:GLN:OE1	1:E:89:GLN:HA	2.01	0.61
1:F:405:PRO:O	1:F:406:GLU:HG3	2.00	0.61
1:F:481:ILE:CD1	1:L:498:GLN:HB3	2.31	0.61
1:G:30:ARG:HH21	1:G:41:LYS:CD	2.13	0.61
1:G:89:GLN:OE1	1:G:89:GLN:HA	2.01	0.61
1:H:147:VAL:O	1:H:147:VAL:HG12	2.01	0.61
1:K:147:VAL:O	1:K:147:VAL:HG12	2.01	0.61
1:L:143:LEU:O	1:L:156:ASP:OD1	2.18	0.61
1:L:463:ARG:HH11	1:L:463:ARG:CG	2.14	0.61
1:N:364:ASP:OD2	1:N:402:LYS:NZ	2.33	0.61
1:P:30:ARG:HH21	1:P:41:LYS:CD	2.13	0.61
1:P:147:VAL:O	1:P:147:VAL:HG12	2.01	0.61
1:R:30:ARG:HH21	1:R:41:LYS:CD	2.12	0.61
1:R:30:ARG:NH2	1:R:41:LYS:HD2	2.12	0.61
1:S:89:GLN:OE1	1:S:89:GLN:HA	2.01	0.61
1:T:89:GLN:HA	1:T:89:GLN:OE1	2.01	0.61
1:U:69:ASP:OD1	1:U:131:PHE:CE2	2.53	0.61
1:A:143:LEU:O	1:A:156:ASP:OD1	2.18	0.61
1:A:147:VAL:O	1:A:147:VAL:HG12	2.01	0.61
1:A:364:ASP:OD2	1:A:402:LYS:NZ	2.33	0.61
1:A:405:PRO:O	1:A:406:GLU:HG3	2.00	0.61
1:B:162:ILE:HG23	1:B:167:LEU:HD21	1.83	0.61
1:C:89:GLN:OE1	1:C:89:GLN:HA	2.01	0.61
1:C:117:GLN:OE1	1:H:442:ARG:NH1	2.33	0.61
1:C:147:VAL:HG12	1:C:147:VAL:O	2.01	0.61
1:C:162:ILE:CD1	1:C:432:LEU:HD13	2.13	0.61
1:D:485:ALA:CB	1:J:505:ARG:NE	2.64	0.61
1:E:45:ALA:O	1:E:49:ILE:CD1	2.46	0.61
1:E:360:TYR:CE1	1:E:386:ILE:CG1	2.82	0.61
1:F:69:ASP:OD1	1:F:131:PHE:CE2	2.53	0.61
1:G:147:VAL:O	1:G:147:VAL:HG12	2.01	0.61
1:I:30:ARG:HH21	1:I:41:LYS:CD	2.13	0.61
1:I:30:ARG:NH2	1:I:41:LYS:HD2	2.12	0.61
1:I:386:ILE:HD13	1:I:401:PHE:CZ	2.32	0.61
1:J:23:ALA:O	1:J:26:THR:HG22	2.00	0.61
1:J:405:PRO:O	1:J:406:GLU:HG3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:117:GLN:CG	1:P:442:ARG:HD2	2.30	0.61
1:O:162:ILE:HG23	1:O:167:LEU:HD21	1.83	0.61
1:Q:501:LEU:HB3	1:Q:505:ARG:HH12	0.81	0.61
1:R:23:ALA:O	1:R:26:THR:HG22	2.00	0.61
1:W:143:LEU:O	1:W:156:ASP:OD1	2.18	0.61
1:W:162:ILE:HG23	1:W:167:LEU:HD21	1.83	0.61
1:B:69:ASP:OD1	1:B:131:PHE:CE2	2.54	0.61
1:C:419:LEU:HD12	1:N:151:ASP:HA	1.83	0.61
1:D:69:ASP:OD1	1:D:131:PHE:CE2	2.54	0.61
1:E:147:VAL:O	1:E:147:VAL:HG12	2.01	0.61
1:E:186:THR:HG21	1:E:290:PRO:N	2.16	0.61
1:F:360:TYR:CE1	1:F:386:ILE:CG1	2.82	0.61
1:K:364:ASP:OD2	1:K:402:LYS:NZ	2.33	0.61
1:N:30:ARG:HH21	1:N:41:LYS:CD	2.13	0.61
1:O:23:ALA:O	1:O:26:THR:HG22	2.00	0.61
1:O:178:TYR:HD2	1:O:378:ASP:HA	1.64	0.61
1:Q:143:LEU:O	1:Q:156:ASP:OD1	2.18	0.61
1:R:69:ASP:OD1	1:R:131:PHE:CE2	2.54	0.61
1:S:69:ASP:OD1	1:S:131:PHE:CE2	2.54	0.61
1:U:186:THR:HG21	1:U:290:PRO:N	2.16	0.61
1:A:89:GLN:HA	1:A:89:GLN:OE1	2.01	0.60
1:A:178:TYR:HD2	1:A:378:ASP:HA	1.64	0.60
1:D:186:THR:HG21	1:D:290:PRO:N	2.16	0.60
1:E:405:PRO:O	1:E:406:GLU:HG3	2.00	0.60
1:F:143:LEU:O	1:F:156:ASP:OD1	2.18	0.60
1:H:69:ASP:OD1	1:H:131:PHE:CE2	2.54	0.60
1:I:23:ALA:O	1:I:26:THR:HG22	2.00	0.60
1:J:293:VAL:HG12	1:J:297:ALA:HB3	1.78	0.60
1:K:143:LEU:O	1:K:156:ASP:OD1	2.18	0.60
1:K:162:ILE:CD1	1:K:432:LEU:HD13	2.13	0.60
1:M:69:ASP:OD1	1:M:131:PHE:CE2	2.54	0.60
1:M:147:VAL:O	1:M:147:VAL:HG12	2.01	0.60
1:R:178:TYR:HD2	1:R:378:ASP:O	1.84	0.60
1:R:364:ASP:OD2	1:R:402:LYS:NZ	2.33	0.60
1:T:69:ASP:OD1	1:T:131:PHE:CE2	2.54	0.60
1:T:405:PRO:O	1:T:406:GLU:HG3	2.00	0.60
1:U:147:VAL:O	1:U:147:VAL:HG12	2.01	0.60
1:A:29:GLU:OE2	1:F:12:LEU:HD13	2.01	0.60
1:A:117:GLN:OE1	1:F:442:ARG:NH1	2.34	0.60
1:B:35:LEU:HD23	1:M:5:ASN:ND2	2.16	0.60
1:F:314:ALA:HB1	1:F:336:LYS:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:480:GLN:CD	1:K:492:GLN:HE21	2.08	0.60
1:G:186:THR:CG2	1:G:290:PRO:N	2.64	0.60
1:G:405:PRO:O	1:G:406:GLU:HG3	2.00	0.60
1:I:501:LEU:HB3	1:I:505:ARG:HH11	1.54	0.60
1:J:89:GLN:OE1	1:J:89:GLN:HA	2.01	0.60
1:J:101:SER:CB	1:U:143:LEU:HA	2.30	0.60
1:J:147:VAL:O	1:J:147:VAL:HG12	2.01	0.60
1:J:364:ASP:OD2	1:J:402:LYS:NZ	2.33	0.60
1:L:147:VAL:O	1:L:147:VAL:HG12	2.01	0.60
1:M:162:ILE:HG23	1:M:167:LEU:HD21	1.83	0.60
1:M:178:TYR:HD2	1:M:378:ASP:O	1.84	0.60
1:O:405:PRO:O	1:O:406:GLU:HG3	2.00	0.60
1:P:405:PRO:O	1:P:406:GLU:HG3	2.00	0.60
1:P:481:ILE:CD1	1:W:498:GLN:HB3	2.32	0.60
1:Q:89:GLN:HA	1:Q:89:GLN:OE1	2.01	0.60
1:Q:147:VAL:O	1:Q:147:VAL:HG12	2.01	0.60
1:S:162:ILE:HG23	1:S:167:LEU:HD21	1.83	0.60
1:T:23:ALA:O	1:T:26:THR:HG22	2.00	0.60
1:T:186:THR:HG21	1:T:290:PRO:N	2.16	0.60
1:U:23:ALA:O	1:U:26:THR:HG22	2.00	0.60
1:A:186:THR:CG2	1:A:290:PRO:N	2.65	0.60
1:A:306:VAL:CG1	1:A:307:ASP:H	1.94	0.60
1:B:117:GLN:OE1	1:G:442:ARG:NH1	2.33	0.60
1:C:69:ASP:OD1	1:C:131:PHE:CE2	2.53	0.60
1:D:89:GLN:OE1	1:D:89:GLN:HA	2.01	0.60
1:G:341:TYR:CB	1:G:374:LEU:HD12	2.18	0.60
1:G:364:ASP:OD2	1:G:402:LYS:NZ	2.33	0.60
1:H:386:ILE:CD1	1:H:401:PHE:HE2	2.06	0.60
1:I:485:ALA:HB2	1:O:505:ARG:NE	2.15	0.60
1:K:186:THR:HG21	1:K:290:PRO:N	2.16	0.60
1:L:314:ALA:HB1	1:L:336:LYS:O	2.02	0.60
1:L:485:ALA:CB	1:R:505:ARG:NE	2.64	0.60
1:M:186:THR:CG2	1:M:290:PRO:N	2.65	0.60
1:N:463:ARG:HH11	1:N:463:ARG:CG	2.14	0.60
1:O:501:LEU:HB3	1:O:505:ARG:HH12	0.81	0.60
1:T:162:ILE:HG23	1:T:167:LEU:HD21	1.83	0.60
1:U:314:ALA:HB1	1:U:336:LYS:O	2.02	0.60
1:B:178:TYR:HD2	1:B:378:ASP:O	1.84	0.60
1:E:117:GLN:OE1	1:J:442:ARG:NH1	2.34	0.60
1:E:293:VAL:HG12	1:E:297:ALA:HB3	1.78	0.60
1:F:364:ASP:OD2	1:F:402:LYS:NZ	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:162:ILE:HG23	1:H:167:LEU:HD21	1.83	0.60
1:I:341:TYR:CB	1:I:374:LEU:HD12	2.18	0.60
1:K:101:SER:CB	1:W:143:LEU:HA	2.31	0.60
1:Q:178:TYR:HD2	1:Q:378:ASP:HA	1.64	0.60
1:S:186:THR:CG2	1:S:290:PRO:N	2.64	0.60
1:U:89:GLN:OE1	1:U:89:GLN:HA	2.01	0.60
1:W:186:THR:HG21	1:W:290:PRO:N	2.16	0.60
1:A:35:LEU:HD23	1:L:5:ASN:ND2	2.14	0.60
1:C:162:ILE:HG23	1:C:167:LEU:HD21	1.83	0.60
1:D:178:TYR:HD2	1:D:378:ASP:O	1.84	0.60
1:E:409:GLU:O	1:E:410:ALA:C	2.45	0.60
1:F:89:GLN:OE1	1:F:89:GLN:HA	2.01	0.60
1:F:178:TYR:HD2	1:F:378:ASP:O	1.84	0.60
1:G:69:ASP:OD1	1:G:131:PHE:CE2	2.54	0.60
1:G:178:TYR:HD2	1:G:378:ASP:HA	1.64	0.60
1:G:373:GLN:O	1:G:382:GLU:C	2.45	0.60
1:I:162:ILE:HG23	1:I:167:LEU:HD21	1.83	0.60
1:J:186:THR:HG21	1:J:290:PRO:N	2.16	0.60
1:J:501:LEU:HB3	1:J:505:ARG:HH12	0.81	0.60
1:N:117:GLN:CG	1:S:442:ARG:HD2	2.31	0.60
1:N:162:ILE:HG23	1:N:167:LEU:HD21	1.83	0.60
1:O:314:ALA:HB1	1:O:336:LYS:O	2.02	0.60
1:O:364:ASP:OD2	1:O:402:LYS:NZ	2.33	0.60
1:P:463:ARG:HH11	1:P:463:ARG:CG	2.14	0.60
1:Q:480:GLN:CD	1:W:492:GLN:HE21	2.09	0.60
1:R:147:VAL:O	1:R:147:VAL:HG12	2.01	0.60
1:S:364:ASP:OD2	1:S:402:LYS:NZ	2.33	0.60
1:S:405:PRO:O	1:S:406:GLU:HG3	2.00	0.60
1:A:83:GLU:OE1	1:A:125:VAL:HG21	2.02	0.60
1:B:186:THR:HG21	1:B:290:PRO:N	2.16	0.60
1:C:83:GLU:OE1	1:C:125:VAL:HG21	2.02	0.60
1:C:186:THR:CG2	1:C:290:PRO:N	2.64	0.60
1:D:35:LEU:HD23	1:O:5:ASN:ND2	2.12	0.60
1:D:501:LEU:HB3	1:D:505:ARG:HH12	0.81	0.60
1:H:178:TYR:HD2	1:H:378:ASP:O	1.84	0.60
1:K:83:GLU:OE1	1:K:125:VAL:HG21	2.02	0.60
1:K:178:TYR:HD2	1:K:378:ASP:O	1.84	0.60
1:M:401:PHE:CE1	1:M:407:LEU:HD12	2.37	0.60
1:O:147:VAL:O	1:O:147:VAL:HG12	2.01	0.60
1:O:186:THR:HG21	1:O:290:PRO:N	2.16	0.60
1:Q:186:THR:CG2	1:Q:290:PRO:N	2.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:147:VAL:O	1:S:147:VAL:HG12	2.01	0.60
1:U:405:PRO:O	1:U:406:GLU:HG3	2.00	0.60
1:W:147:VAL:O	1:W:147:VAL:HG12	2.01	0.60
1:W:401:PHE:CE1	1:W:407:LEU:HD12	2.37	0.60
1:W:405:PRO:O	1:W:406:GLU:HG3	2.00	0.60
1:A:178:TYR:HD2	1:A:378:ASP:O	1.84	0.60
1:B:83:GLU:OE1	1:B:125:VAL:HG21	2.02	0.60
1:E:306:VAL:CG1	1:E:307:ASP:N	2.53	0.60
1:G:83:GLU:OE1	1:G:125:VAL:HG21	2.02	0.60
1:I:463:ARG:HH11	1:I:463:ARG:CG	2.14	0.60
1:K:401:PHE:CE1	1:K:407:LEU:HD12	2.37	0.60
1:L:83:GLU:OE1	1:L:125:VAL:HG21	2.02	0.60
1:N:89:GLN:OE1	1:N:89:GLN:HA	2.01	0.60
1:P:89:GLN:OE1	1:P:89:GLN:HA	2.01	0.60
1:Q:360:TYR:CE1	1:Q:386:ILE:CG1	2.82	0.60
1:Q:401:PHE:CE1	1:Q:407:LEU:HD12	2.37	0.60
1:R:314:ALA:HB1	1:R:336:LYS:O	2.02	0.60
1:S:83:GLU:OE1	1:S:125:VAL:HG21	2.02	0.60
1:T:401:PHE:CE1	1:T:407:LEU:HD12	2.37	0.60
1:U:401:PHE:CE1	1:U:407:LEU:HD12	2.37	0.60
1:W:89:GLN:OE1	1:W:89:GLN:HA	2.01	0.60
1:W:306:VAL:CG1	1:W:307:ASP:N	2.54	0.60
1:A:314:ALA:HB1	1:A:336:LYS:O	2.02	0.60
1:G:178:TYR:HD2	1:G:378:ASP:O	1.84	0.60
1:G:401:PHE:CE1	1:G:407:LEU:HD12	2.37	0.60
1:I:35:LEU:HD21	1:T:5:ASN:HD21	1.66	0.60
1:I:293:VAL:HG12	1:I:297:ALA:HB3	1.78	0.60
1:N:147:VAL:HG12	1:N:147:VAL:O	2.01	0.60
1:P:401:PHE:CE1	1:P:407:LEU:HD12	2.37	0.60
1:Q:373:GLN:O	1:Q:382:GLU:C	2.45	0.60
1:R:38:ASN:ND2	1:R:41:LYS:HZ1	1.96	0.60
1:R:83:GLU:OE1	1:R:125:VAL:HG21	2.02	0.60
1:R:186:THR:CG2	1:R:290:PRO:N	2.64	0.60
1:T:147:VAL:O	1:T:147:VAL:HG12	2.01	0.60
1:U:30:ARG:HH21	1:U:41:LYS:CD	2.13	0.60
1:A:401:PHE:CE1	1:A:407:LEU:HD12	2.37	0.60
1:B:30:ARG:HH21	1:B:41:LYS:CD	2.13	0.60
1:C:186:THR:HG21	1:C:290:PRO:N	2.16	0.60
1:D:480:GLN:CD	1:I:492:GLN:HE21	2.10	0.60
1:E:314:ALA:HB1	1:E:336:LYS:O	2.02	0.60
1:G:101:SER:OG	1:R:143:LEU:CB	2.48	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:186:THR:HG21	1:G:290:PRO:N	2.16	0.60
1:H:83:GLU:OE1	1:H:125:VAL:HG21	2.02	0.60
1:J:480:GLN:CD	1:O:492:GLN:HE21	2.10	0.60
1:K:373:GLN:O	1:K:382:GLU:C	2.45	0.60
1:M:83:GLU:OE1	1:M:125:VAL:HG21	2.02	0.60
1:M:373:GLN:O	1:M:382:GLU:C	2.45	0.60
1:N:186:THR:HG21	1:N:290:PRO:N	2.16	0.60
1:Q:83:GLU:OE1	1:Q:125:VAL:HG21	2.02	0.60
1:S:401:PHE:CE1	1:S:407:LEU:HD12	2.37	0.60
1:T:83:GLU:OE1	1:T:125:VAL:HG21	2.02	0.60
1:A:373:GLN:O	1:A:382:GLU:C	2.45	0.60
1:A:481:ILE:CD1	1:G:498:GLN:HB3	2.32	0.60
1:B:364:ASP:OD2	1:B:402:LYS:NZ	2.33	0.60
1:D:101:SER:OG	1:O:143:LEU:CB	2.48	0.60
1:E:35:LEU:HD23	1:P:5:ASN:ND2	2.14	0.60
1:E:463:ARG:HH11	1:E:463:ARG:CG	2.14	0.60
1:G:314:ALA:HB1	1:G:336:LYS:O	2.02	0.60
1:I:314:ALA:HB1	1:I:336:LYS:O	2.02	0.60
1:L:89:GLN:OE1	1:L:89:GLN:HA	2.01	0.60
1:L:186:THR:CG2	1:L:290:PRO:N	2.65	0.60
1:L:401:PHE:CE1	1:L:407:LEU:HD12	2.37	0.60
1:R:401:PHE:CE1	1:R:407:LEU:HD12	2.37	0.60
1:B:463:ARG:HG2	1:B:463:ARG:NH1	2.16	0.59
1:D:83:GLU:OE1	1:D:125:VAL:HG21	2.02	0.59
1:F:501:LEU:HB3	1:F:505:ARG:HH12	0.81	0.59
1:K:89:GLN:OE1	1:K:89:GLN:HA	2.01	0.59
1:K:501:LEU:HB3	1:K:505:ARG:HH12	0.81	0.59
1:M:186:THR:HG21	1:M:290:PRO:N	2.16	0.59
1:M:301:LEU:HD21	1:M:337:ALA:CB	2.25	0.59
1:N:83:GLU:OE1	1:N:125:VAL:HG21	2.02	0.59
1:O:481:ILE:CD1	1:U:498:GLN:HB3	2.31	0.59
1:Q:117:GLN:CG	1:W:442:ARG:HD2	2.32	0.59
1:R:45:ALA:O	1:R:49:ILE:CD1	2.46	0.59
1:R:45:ALA:C	1:R:49:ILE:HD13	2.27	0.59
1:T:314:ALA:HB1	1:T:336:LYS:O	2.02	0.59
1:U:463:ARG:HH11	1:U:463:ARG:CG	2.14	0.59
1:W:178:TYR:HD2	1:W:378:ASP:O	1.84	0.59
1:B:186:THR:CG2	1:B:290:PRO:N	2.65	0.59
1:B:373:GLN:O	1:B:382:GLU:C	2.45	0.59
1:C:314:ALA:HB1	1:C:336:LYS:O	2.02	0.59
1:D:373:GLN:O	1:D:382:GLU:C	2.45	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:419:LEU:HD12	1:O:151:ASP:HA	1.85	0.59
1:D:463:ARG:HH11	1:D:463:ARG:CG	2.14	0.59
1:F:83:GLU:OE1	1:F:125:VAL:HG21	2.02	0.59
1:F:186:THR:HG21	1:F:290:PRO:N	2.16	0.59
1:F:401:PHE:CE1	1:F:407:LEU:HD12	2.37	0.59
1:G:162:ILE:CD1	1:G:432:LEU:HD13	2.13	0.59
1:H:401:PHE:CE1	1:H:407:LEU:HD12	2.37	0.59
1:H:463:ARG:HG2	1:H:463:ARG:NH1	2.16	0.59
1:J:83:GLU:OE1	1:J:125:VAL:HG21	2.02	0.59
1:J:401:PHE:CE1	1:J:407:LEU:HD12	2.37	0.59
1:K:186:THR:CG2	1:K:290:PRO:N	2.65	0.59
1:K:375:GLY:O	1:K:379:GLY:CA	2.49	0.59
1:L:45:ALA:C	1:L:49:ILE:HD13	2.27	0.59
1:L:178:TYR:HD2	1:L:378:ASP:HA	1.64	0.59
1:M:45:ALA:C	1:M:49:ILE:HD13	2.27	0.59
1:M:89:GLN:OE1	1:M:89:GLN:HA	2.01	0.59
1:O:401:PHE:CE1	1:O:407:LEU:HD12	2.37	0.59
1:P:37:ILE:HD12	1:P:37:ILE:O	2.03	0.59
1:P:501:LEU:HB3	1:P:505:ARG:HH12	0.81	0.59
1:Q:45:ALA:C	1:Q:49:ILE:HD13	2.27	0.59
1:T:178:TYR:HD2	1:T:378:ASP:O	1.84	0.59
1:U:301:LEU:HD21	1:U:337:ALA:CB	2.24	0.59
1:W:314:ALA:HB1	1:W:336:LYS:O	2.02	0.59
1:W:373:GLN:O	1:W:382:GLU:C	2.45	0.59
1:A:37:ILE:HD12	1:A:37:ILE:O	2.03	0.59
1:B:306:VAL:CG1	1:B:307:ASP:H	1.94	0.59
1:B:401:PHE:CE1	1:B:407:LEU:HD12	2.37	0.59
1:D:485:ALA:HB2	1:J:505:ARG:NE	2.16	0.59
1:E:178:TYR:HD2	1:E:378:ASP:O	1.84	0.59
1:F:373:GLN:O	1:F:382:GLU:C	2.45	0.59
1:H:186:THR:CG2	1:H:290:PRO:N	2.65	0.59
1:I:373:GLN:O	1:I:382:GLU:C	2.45	0.59
1:J:37:ILE:HD12	1:J:37:ILE:O	2.03	0.59
1:J:178:TYR:HD2	1:J:378:ASP:O	1.84	0.59
1:K:314:ALA:HB1	1:K:336:LYS:O	2.02	0.59
1:K:373:GLN:CB	1:K:383:VAL:HG22	2.26	0.59
1:L:186:THR:HG21	1:L:290:PRO:N	2.16	0.59
1:M:4:ILE:CG1	1:M:501:LEU:HD12	2.02	0.59
1:N:401:PHE:CE1	1:N:407:LEU:HD12	2.37	0.59
1:O:373:GLN:CB	1:O:383:VAL:HG22	2.26	0.59
1:R:373:GLN:O	1:R:382:GLU:C	2.45	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:45:ALA:C	1:W:49:ILE:HD13	2.27	0.59
1:B:178:TYR:HD2	1:B:378:ASP:HA	1.64	0.59
1:C:375:GLY:O	1:C:379:GLY:CA	2.49	0.59
1:E:373:GLN:CB	1:E:383:VAL:HG22	2.26	0.59
1:F:186:THR:CG2	1:F:290:PRO:N	2.65	0.59
1:H:409:GLU:O	1:H:410:ALA:C	2.45	0.59
1:I:83:GLU:OE1	1:I:125:VAL:HG21	2.02	0.59
1:I:178:TYR:HD2	1:I:378:ASP:O	1.84	0.59
1:I:180:VAL:HG23	1:I:321:TYR:HD1	1.61	0.59
1:P:178:TYR:HD2	1:P:378:ASP:O	1.84	0.59
1:P:186:THR:HG21	1:P:290:PRO:N	2.16	0.59
1:P:314:ALA:HB1	1:P:336:LYS:O	2.02	0.59
1:Q:373:GLN:CB	1:Q:383:VAL:HG22	2.26	0.59
1:U:83:GLU:OE1	1:U:125:VAL:HG21	2.02	0.59
1:U:501:LEU:HB3	1:U:505:ARG:HH12	0.81	0.59
1:W:83:GLU:OE1	1:W:125:VAL:HG21	2.02	0.59
1:A:100:ASN:HD21	1:L:66:ASN:CG	2.11	0.59
1:B:37:ILE:HD12	1:B:37:ILE:O	2.03	0.59
1:B:341:TYR:CB	1:B:374:LEU:HD12	2.18	0.59
1:D:37:ILE:HD12	1:D:37:ILE:O	2.03	0.59
1:D:405:PRO:O	1:D:406:GLU:HG3	2.00	0.59
1:E:401:PHE:CE1	1:E:407:LEU:HD12	2.37	0.59
1:G:45:ALA:C	1:G:49:ILE:HD13	2.27	0.59
1:H:35:LEU:HD21	1:S:5:ASN:HD21	1.63	0.59
1:H:37:ILE:HD12	1:H:37:ILE:O	2.03	0.59
1:I:147:VAL:O	1:I:147:VAL:HG12	2.01	0.59
1:I:186:THR:HG21	1:I:290:PRO:N	2.16	0.59
1:K:316:LEU:HD12	1:K:334:ALA:O	2.03	0.59
1:K:481:ILE:CD1	1:Q:498:GLN:HB3	2.33	0.59
1:P:293:VAL:HG12	1:P:297:ALA:HB3	1.78	0.59
1:Q:37:ILE:HD12	1:Q:37:ILE:O	2.03	0.59
1:Q:178:TYR:HD2	1:Q:378:ASP:O	1.84	0.59
1:Q:314:ALA:HB1	1:Q:336:LYS:O	2.02	0.59
1:S:186:THR:HG21	1:S:290:PRO:N	2.16	0.59
1:S:373:GLN:HB3	1:S:383:VAL:HG23	1.53	0.59
1:S:409:GLU:O	1:S:410:ALA:C	2.45	0.59
1:T:301:LEU:HD21	1:T:337:ALA:CB	2.24	0.59
1:A:293:VAL:CG1	1:A:297:ALA:CB	2.69	0.59
1:B:485:ALA:HB2	1:H:505:ARG:NE	2.17	0.59
1:C:178:TYR:HD2	1:C:378:ASP:O	1.84	0.59
1:C:373:GLN:O	1:C:382:GLU:C	2.45	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:83:GLU:OE1	1:E:125:VAL:HG21	2.02	0.59
1:H:480:GLN:CD	1:M:492:GLN:HE21	2.10	0.59
1:I:186:THR:CG2	1:I:290:PRO:N	2.65	0.59
1:J:373:GLN:O	1:J:382:GLU:C	2.45	0.59
1:J:481:ILE:CD1	1:P:498:GLN:HB3	2.32	0.59
1:L:29:GLU:OE2	1:Q:12:LEU:HD13	2.02	0.59
1:L:37:ILE:HD12	1:L:37:ILE:O	2.03	0.59
1:M:37:ILE:HD12	1:M:37:ILE:O	2.03	0.59
1:N:37:ILE:O	1:N:37:ILE:HD12	2.03	0.59
1:N:186:THR:CG2	1:N:290:PRO:N	2.64	0.59
1:N:316:LEU:HD12	1:N:334:ALA:O	2.03	0.59
1:O:316:LEU:HD12	1:O:334:ALA:O	2.03	0.59
1:R:178:TYR:HD2	1:R:378:ASP:HA	1.64	0.59
1:S:316:LEU:HD12	1:S:334:ALA:O	2.03	0.59
1:T:316:LEU:HD12	1:T:334:ALA:O	2.03	0.59
1:U:373:GLN:CB	1:U:383:VAL:HG22	2.27	0.59
1:W:37:ILE:HD12	1:W:37:ILE:O	2.03	0.59
1:W:186:THR:CG2	1:W:290:PRO:N	2.64	0.59
1:B:100:ASN:HD21	1:M:66:ASN:CG	2.11	0.59
1:B:180:VAL:HG23	1:B:321:TYR:HD1	1.61	0.59
1:C:293:VAL:HG12	1:C:297:ALA:HB3	1.78	0.59
1:C:481:ILE:CD1	1:I:498:GLN:HB3	2.32	0.59
1:E:37:ILE:HD12	1:E:37:ILE:O	2.03	0.59
1:E:101:SER:OG	1:P:143:LEU:CB	2.48	0.59
1:E:419:LEU:HD12	1:P:151:ASP:HA	1.85	0.59
1:I:373:GLN:CB	1:I:383:VAL:HG22	2.27	0.59
1:J:316:LEU:HD12	1:J:334:ALA:O	2.03	0.59
1:L:301:LEU:HD21	1:L:337:ALA:CB	2.24	0.59
1:M:29:GLU:OE2	1:R:12:LEU:HD13	2.01	0.59
1:N:178:TYR:HD2	1:N:378:ASP:O	1.84	0.59
1:O:178:TYR:HD2	1:O:378:ASP:O	1.84	0.59
1:O:373:GLN:O	1:O:382:GLU:C	2.45	0.59
1:Q:364:ASP:HB2	1:Q:402:LYS:HZ3	1.63	0.59
1:R:186:THR:HG21	1:R:290:PRO:N	2.16	0.59
1:S:37:ILE:O	1:S:37:ILE:HD12	2.03	0.59
1:S:178:TYR:HD2	1:S:378:ASP:O	1.84	0.59
1:A:186:THR:HG21	1:A:290:PRO:N	2.16	0.59
1:D:147:VAL:O	1:D:147:VAL:HG12	2.01	0.59
1:G:316:LEU:HD12	1:G:334:ALA:O	2.03	0.59
1:H:186:THR:HG21	1:H:290:PRO:N	2.16	0.59
1:L:178:TYR:HD2	1:L:378:ASP:O	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:316:LEU:HD12	1:L:334:ALA:O	2.03	0.59
1:L:373:GLN:O	1:L:382:GLU:C	2.45	0.59
1:N:480:GLN:CD	1:S:492:GLN:HE21	2.10	0.59
1:P:83:GLU:OE1	1:P:125:VAL:HG21	2.02	0.59
1:P:180:VAL:HG23	1:P:321:TYR:HD1	1.61	0.59
1:Q:186:THR:HG21	1:Q:290:PRO:N	2.16	0.59
1:R:409:GLU:O	1:R:410:ALA:C	2.45	0.59
1:A:31:LEU:CD2	1:A:469:TYR:CD1	2.67	0.59
1:B:45:ALA:C	1:B:49:ILE:HD13	2.27	0.59
1:E:186:THR:CG2	1:E:290:PRO:N	2.65	0.59
1:F:316:LEU:HD12	1:F:334:ALA:O	2.03	0.59
1:I:316:LEU:HD12	1:I:334:ALA:O	2.03	0.59
1:I:401:PHE:CE1	1:I:407:LEU:HD12	2.37	0.59
1:J:364:ASP:CB	1:J:402:LYS:NZ	2.62	0.59
1:K:45:ALA:C	1:K:49:ILE:HD13	2.27	0.59
1:N:373:GLN:O	1:N:382:GLU:C	2.45	0.59
1:N:501:LEU:HB3	1:N:505:ARG:HH11	1.54	0.59
1:O:89:GLN:OE1	1:O:89:GLN:HA	2.01	0.59
1:P:45:ALA:C	1:P:49:ILE:HD13	2.27	0.59
1:P:316:LEU:HD12	1:P:334:ALA:O	2.03	0.59
1:P:375:GLY:O	1:P:379:GLY:CA	2.49	0.59
1:S:45:ALA:C	1:S:49:ILE:HD13	2.27	0.59
1:T:37:ILE:HD12	1:T:37:ILE:O	2.03	0.59
1:W:501:LEU:HB3	1:W:505:ARG:HH12	0.81	0.59
1:D:401:PHE:CE1	1:D:407:LEU:HD12	2.37	0.59
1:E:373:GLN:O	1:E:382:GLU:C	2.45	0.59
1:E:501:LEU:HB3	1:E:505:ARG:HH12	0.81	0.59
1:F:37:ILE:HD12	1:F:37:ILE:O	2.03	0.59
1:F:45:ALA:C	1:F:49:ILE:HD13	2.27	0.59
1:G:37:ILE:HD12	1:G:37:ILE:O	2.03	0.59
1:H:101:SER:OG	1:S:143:LEU:CB	2.50	0.59
1:J:117:GLN:CG	1:O:442:ARG:HD2	2.31	0.59
1:O:480:GLN:CD	1:T:492:GLN:HE21	2.10	0.59
1:W:31:LEU:CD2	1:W:469:TYR:CD1	2.67	0.59
1:B:409:GLU:O	1:B:410:ALA:C	2.45	0.58
1:E:375:GLY:O	1:E:379:GLY:CA	2.49	0.58
1:G:409:GLU:O	1:G:410:ALA:C	2.45	0.58
1:H:45:ALA:C	1:H:49:ILE:HD13	2.27	0.58
1:I:101:SER:OG	1:T:143:LEU:CB	2.48	0.58
1:K:31:LEU:CD2	1:K:469:TYR:CD1	2.66	0.58
1:L:4:ILE:CG1	1:L:501:LEU:HD12	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:37:ILE:HD12	1:R:37:ILE:O	2.03	0.58
1:U:37:ILE:HD12	1:U:37:ILE:O	2.03	0.58
1:U:373:GLN:O	1:U:382:GLU:C	2.45	0.58
1:U:409:GLU:O	1:U:410:ALA:C	2.45	0.58
1:A:45:ALA:C	1:A:49:ILE:HD13	2.27	0.58
1:I:419:LEU:HD12	1:T:151:ASP:HA	1.85	0.58
1:L:31:LEU:CD2	1:L:469:TYR:CD1	2.67	0.58
1:O:117:GLN:CG	1:T:442:ARG:HD2	2.32	0.58
1:S:373:GLN:O	1:S:382:GLU:C	2.45	0.58
1:T:45:ALA:C	1:T:49:ILE:HD13	2.27	0.58
1:T:373:GLN:O	1:T:382:GLU:C	2.45	0.58
1:U:45:ALA:C	1:U:49:ILE:HD13	2.27	0.58
1:U:178:TYR:HD2	1:U:378:ASP:O	1.84	0.58
1:W:316:LEU:HD12	1:W:334:ALA:O	2.03	0.58
1:C:37:ILE:O	1:C:37:ILE:HD12	2.03	0.58
1:E:4:ILE:CG1	1:E:501:LEU:HD12	2.02	0.58
1:H:373:GLN:O	1:H:382:GLU:C	2.45	0.58
1:M:316:LEU:HD12	1:M:334:ALA:O	2.03	0.58
1:O:83:GLU:OE1	1:O:125:VAL:HG21	2.02	0.58
1:O:186:THR:CG2	1:O:290:PRO:N	2.65	0.58
1:R:293:VAL:CG1	1:R:297:ALA:CB	2.69	0.58
1:R:316:LEU:HD12	1:R:334:ALA:O	2.03	0.58
1:T:186:THR:CG2	1:T:290:PRO:N	2.65	0.58
1:E:301:LEU:HD21	1:E:337:ALA:CB	2.24	0.58
1:G:117:GLN:CG	1:L:442:ARG:HD2	2.33	0.58
1:H:316:LEU:HD12	1:H:334:ALA:O	2.03	0.58
1:K:37:ILE:O	1:K:37:ILE:HD12	2.03	0.58
1:N:45:ALA:C	1:N:49:ILE:HD13	2.27	0.58
1:O:45:ALA:C	1:O:49:ILE:HD13	2.27	0.58
1:P:28:ILE:HG23	1:U:489:VAL:CG1	2.34	0.58
1:T:409:GLU:O	1:T:410:ALA:C	2.45	0.58
1:U:316:LEU:HD12	1:U:334:ALA:O	2.03	0.58
1:A:409:GLU:O	1:A:410:ALA:C	2.45	0.58
1:B:485:ALA:CB	1:H:505:ARG:NE	2.66	0.58
1:C:401:PHE:CE1	1:C:407:LEU:HD12	2.37	0.58
1:D:117:GLN:CG	1:I:442:ARG:HD2	2.33	0.58
1:D:316:LEU:HD12	1:D:334:ALA:O	2.03	0.58
1:E:485:ALA:HB2	1:K:505:ARG:NE	2.18	0.58
1:F:31:LEU:CD2	1:F:469:TYR:CD1	2.66	0.58
1:H:49:ILE:N	1:H:49:ILE:HD12	2.19	0.58
1:H:117:GLN:CG	1:M:442:ARG:HD2	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:480:GLN:CD	1:P:492:GLN:HE21	2.12	0.58
1:L:409:GLU:O	1:L:410:ALA:C	2.45	0.58
1:L:481:ILE:CD1	1:R:498:GLN:HB3	2.33	0.58
1:O:49:ILE:HD12	1:O:49:ILE:N	2.19	0.58
1:O:409:GLU:O	1:O:410:ALA:C	2.45	0.58
1:P:29:GLU:OE2	1:U:12:LEU:HD13	2.04	0.58
1:P:186:THR:CG2	1:P:290:PRO:N	2.65	0.58
1:U:186:THR:CG2	1:U:290:PRO:N	2.65	0.58
1:W:409:GLU:O	1:W:410:ALA:C	2.45	0.58
1:C:49:ILE:N	1:C:49:ILE:HD12	2.19	0.58
1:C:316:LEU:HD12	1:C:334:ALA:O	2.03	0.58
1:F:117:GLN:CG	1:K:442:ARG:HD2	2.33	0.58
1:F:419:LEU:HD12	1:Q:151:ASP:HA	1.85	0.58
1:G:335:LEU:HG	1:G:344:ALA:HB3	1.86	0.58
1:L:162:ILE:CD1	1:L:432:LEU:HD13	2.13	0.58
1:M:409:GLU:O	1:M:410:ALA:C	2.45	0.58
1:N:301:LEU:HD21	1:N:337:ALA:CB	2.24	0.58
1:O:37:ILE:HD12	1:O:37:ILE:O	2.03	0.58
1:U:375:GLY:O	1:U:379:GLY:CA	2.49	0.58
1:C:306:VAL:CG1	1:C:307:ASP:N	2.53	0.58
1:E:485:ALA:CB	1:K:505:ARG:NE	2.67	0.58
1:F:45:ALA:O	1:F:49:ILE:CD1	2.46	0.58
1:I:481:ILE:CD1	1:O:498:GLN:HB3	2.33	0.58
1:J:375:GLY:O	1:J:379:GLY:CA	2.49	0.58
1:L:45:ALA:O	1:L:49:ILE:CD1	2.46	0.58
1:M:335:LEU:HG	1:M:344:ALA:HB3	1.86	0.58
1:Q:335:LEU:HG	1:Q:344:ALA:HB3	1.86	0.58
1:T:49:ILE:HD12	1:T:49:ILE:N	2.19	0.58
1:B:316:LEU:HD12	1:B:334:ALA:O	2.03	0.58
1:D:481:ILE:CD1	1:J:498:GLN:HB3	2.34	0.58
1:F:335:LEU:HG	1:F:344:ALA:HB3	1.86	0.58
1:G:360:TYR:CE1	1:G:386:ILE:CG1	2.82	0.58
1:H:45:ALA:CA	1:H:49:ILE:HD13	2.34	0.58
1:K:301:LEU:HD21	1:K:337:ALA:CB	2.25	0.58
1:M:49:ILE:HD12	1:M:49:ILE:N	2.19	0.58
1:P:373:GLN:O	1:P:382:GLU:C	2.45	0.58
1:P:409:GLU:O	1:P:410:ALA:C	2.45	0.58
1:Q:31:LEU:CD2	1:Q:469:TYR:CD1	2.67	0.58
1:Q:375:GLY:O	1:Q:379:GLY:CA	2.49	0.58
1:R:364:ASP:HB2	1:R:402:LYS:HZ3	1.64	0.58
1:S:501:LEU:HB3	1:S:505:ARG:HH11	1.54	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:45:ALA:CA	1:C:49:ILE:HD13	2.34	0.58
1:C:107:ASP:OD2	1:S:49:ILE:CG1	2.52	0.58
1:C:161:GLN:O	1:C:166:THR:CB	2.52	0.58
1:E:496:VAL:N	1:E:497:PRO:CD	2.67	0.58
1:H:108:LEU:HD22	1:H:174:VAL:HG23	1.86	0.58
1:I:37:ILE:HD12	1:I:37:ILE:O	2.03	0.58
1:J:45:ALA:C	1:J:49:ILE:HD13	2.27	0.58
1:J:409:GLU:O	1:J:410:ALA:C	2.45	0.58
1:L:108:LEU:HD22	1:L:174:VAL:HG23	1.86	0.58
1:L:373:GLN:HB3	1:L:383:VAL:HG23	1.53	0.58
1:M:45:ALA:CA	1:M:49:ILE:HD13	2.34	0.58
1:M:108:LEU:HD22	1:M:174:VAL:HG23	1.86	0.58
1:P:161:GLN:O	1:P:166:THR:CB	2.52	0.58
1:Q:316:LEU:HD12	1:Q:334:ALA:O	2.03	0.58
1:Q:409:GLU:O	1:Q:410:ALA:C	2.45	0.58
1:T:161:GLN:O	1:T:166:THR:CB	2.52	0.58
1:W:501:LEU:O	1:W:505:ARG:HG3	2.04	0.58
1:C:45:ALA:C	1:C:49:ILE:HD13	2.27	0.58
1:D:87:ASN:OD1	1:D:118:ARG:NH1	2.37	0.58
1:D:496:VAL:N	1:D:497:PRO:CD	2.67	0.58
1:E:45:ALA:C	1:E:49:ILE:HD13	2.27	0.58
1:F:108:LEU:HD22	1:F:174:VAL:HG23	1.86	0.58
1:G:419:LEU:HD12	1:R:151:ASP:HA	1.85	0.58
1:H:100:ASN:HD21	1:S:66:ASN:CG	2.12	0.58
1:J:49:ILE:HD12	1:J:49:ILE:N	2.19	0.58
1:K:108:LEU:HD22	1:K:174:VAL:HG23	1.86	0.58
1:K:161:GLN:O	1:K:166:THR:CB	2.52	0.58
1:L:117:GLN:CG	1:Q:442:ARG:HD2	2.34	0.58
1:N:161:GLN:O	1:N:166:THR:CB	2.52	0.58
1:O:161:GLN:O	1:O:166:THR:CB	2.52	0.58
1:R:108:LEU:HD22	1:R:174:VAL:HG23	1.86	0.58
1:S:45:ALA:CA	1:S:49:ILE:HD13	2.34	0.58
1:S:161:GLN:O	1:S:166:THR:CB	2.52	0.58
1:U:161:GLN:O	1:U:166:THR:CB	2.52	0.58
1:W:375:GLY:O	1:W:379:GLY:CA	2.49	0.58
1:A:335:LEU:HG	1:A:344:ALA:HB3	1.86	0.57
1:D:161:GLN:O	1:D:166:THR:CB	2.52	0.57
1:H:335:LEU:HG	1:H:344:ALA:HB3	1.86	0.57
1:I:45:ALA:C	1:I:49:ILE:HD13	2.27	0.57
1:I:87:ASN:OD1	1:I:118:ARG:NH1	2.37	0.57
1:J:161:GLN:O	1:J:166:THR:CB	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:186:THR:CG2	1:J:290:PRO:N	2.65	0.57
1:N:45:ALA:CA	1:N:49:ILE:HD13	2.34	0.57
1:N:180:VAL:HG23	1:N:321:TYR:HD1	1.61	0.57
1:R:375:GLY:O	1:R:379:GLY:CA	2.49	0.57
1:S:49:ILE:N	1:S:49:ILE:HD12	2.19	0.57
1:S:108:LEU:HD22	1:S:174:VAL:HG23	1.86	0.57
1:T:496:VAL:N	1:T:497:PRO:CD	2.67	0.57
1:A:316:LEU:HD12	1:A:334:ALA:O	2.03	0.57
1:B:45:ALA:CA	1:B:49:ILE:HD13	2.34	0.57
1:C:108:LEU:HD22	1:C:174:VAL:HG23	1.86	0.57
1:C:501:LEU:O	1:C:505:ARG:HG3	2.04	0.57
1:D:186:THR:CG2	1:D:290:PRO:N	2.65	0.57
1:E:161:GLN:O	1:E:166:THR:CB	2.52	0.57
1:F:161:GLN:O	1:F:166:THR:CB	2.52	0.57
1:G:108:LEU:HD22	1:G:174:VAL:HG23	1.86	0.57
1:I:161:GLN:O	1:I:166:THR:CB	2.52	0.57
1:I:364:ASP:CB	1:I:402:LYS:NZ	2.62	0.57
1:I:409:GLU:O	1:I:410:ALA:C	2.45	0.57
1:J:496:VAL:N	1:J:497:PRO:CD	2.67	0.57
1:K:335:LEU:HG	1:K:344:ALA:HB3	1.86	0.57
1:K:364:ASP:CB	1:K:402:LYS:NZ	2.62	0.57
1:N:108:LEU:HD22	1:N:174:VAL:HG23	1.86	0.57
1:N:409:GLU:O	1:N:410:ALA:C	2.45	0.57
1:Q:28:ILE:HG23	1:W:489:VAL:CG1	2.33	0.57
1:Q:29:GLU:OE2	1:W:12:LEU:HD13	2.04	0.57
1:Q:108:LEU:HD22	1:Q:174:VAL:HG23	1.86	0.57
1:Q:501:LEU:O	1:Q:505:ARG:HG3	2.04	0.57
1:R:45:ALA:CA	1:R:49:ILE:HD13	2.34	0.57
1:S:496:VAL:N	1:S:497:PRO:CD	2.67	0.57
1:W:45:ALA:O	1:W:49:ILE:CD1	2.46	0.57
1:W:161:GLN:O	1:W:166:THR:CB	2.52	0.57
1:D:409:GLU:O	1:D:410:ALA:C	2.45	0.57
1:E:108:LEU:HD22	1:E:174:VAL:HG23	1.86	0.57
1:E:316:LEU:HD12	1:E:334:ALA:O	2.03	0.57
1:K:45:ALA:O	1:K:49:ILE:CD1	2.46	0.57
1:K:409:GLU:O	1:K:410:ALA:C	2.45	0.57
1:L:375:GLY:O	1:L:379:GLY:CA	2.49	0.57
1:L:501:LEU:O	1:L:505:ARG:HG3	2.04	0.57
1:N:29:GLU:OE2	1:S:12:LEU:HD13	2.03	0.57
1:P:108:LEU:HD22	1:P:174:VAL:HG23	1.86	0.57
1:P:496:VAL:N	1:P:497:PRO:CD	2.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:49:ILE:N	1:Q:49:ILE:HD12	2.19	0.57
1:U:45:ALA:O	1:U:49:ILE:CD1	2.46	0.57
1:U:108:LEU:HD22	1:U:174:VAL:HG23	1.86	0.57
1:W:108:LEU:HD22	1:W:174:VAL:HG23	1.86	0.57
1:W:301:LEU:HD21	1:W:337:ALA:CB	2.24	0.57
1:A:108:LEU:HD22	1:A:174:VAL:HG23	1.86	0.57
1:A:161:GLN:O	1:A:166:THR:CB	2.52	0.57
1:B:108:LEU:HD22	1:B:174:VAL:HG23	1.86	0.57
1:E:335:LEU:HG	1:E:344:ALA:HB3	1.86	0.57
1:G:49:ILE:HD12	1:G:49:ILE:N	2.19	0.57
1:G:501:LEU:O	1:G:505:ARG:HG3	2.04	0.57
1:I:49:ILE:HD12	1:I:49:ILE:N	2.19	0.57
1:I:108:LEU:HD22	1:I:174:VAL:HG23	1.86	0.57
1:M:343:ALA:HB3	1:M:372:ASN:HB2	1.87	0.57
1:O:4:ILE:CG1	1:O:501:LEU:HD12	2.02	0.57
1:O:375:GLY:O	1:O:379:GLY:CA	2.49	0.57
1:P:501:LEU:O	1:P:505:ARG:HG3	2.04	0.57
1:Q:161:GLN:O	1:Q:166:THR:CB	2.52	0.57
1:W:4:ILE:CG1	1:W:501:LEU:HD12	2.02	0.57
1:A:28:ILE:HG23	1:F:489:VAL:CG1	2.34	0.57
1:B:419:LEU:CG	1:M:151:ASP:OD1	2.51	0.57
1:D:49:ILE:HD12	1:D:49:ILE:N	2.19	0.57
1:E:45:ALA:CA	1:E:49:ILE:HD13	2.34	0.57
1:H:35:LEU:HD21	1:S:5:ASN:CG	2.29	0.57
1:J:101:SER:OG	1:U:143:LEU:CB	2.50	0.57
1:J:301:LEU:HD21	1:J:337:ALA:CB	2.24	0.57
1:K:49:ILE:N	1:K:49:ILE:HD12	2.19	0.57
1:K:496:VAL:N	1:K:497:PRO:CD	2.67	0.57
1:N:496:VAL:N	1:N:497:PRO:CD	2.67	0.57
1:R:49:ILE:HD12	1:R:49:ILE:N	2.19	0.57
1:U:501:LEU:O	1:U:505:ARG:HG3	2.04	0.57
1:W:501:LEU:HB3	1:W:505:ARG:HH11	1.54	0.57
1:A:49:ILE:HD12	1:A:49:ILE:N	2.19	0.57
1:B:49:ILE:HD12	1:B:49:ILE:N	2.19	0.57
1:B:97:GLN:O	1:B:103:ASN:ND2	2.38	0.57
1:B:501:LEU:O	1:B:505:ARG:HG3	2.04	0.57
1:C:496:VAL:N	1:C:497:PRO:CD	2.67	0.57
1:D:360:TYR:CE1	1:D:386:ILE:CG1	2.82	0.57
1:D:501:LEU:O	1:D:505:ARG:HG3	2.04	0.57
1:E:49:ILE:HD12	1:E:49:ILE:N	2.19	0.57
1:F:29:GLU:OE2	1:K:12:LEU:HD13	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:100:ASN:HD21	1:Q:66:ASN:CG	2.13	0.57
1:F:107:ASP:OD2	1:W:49:ILE:CG1	2.53	0.57
1:H:161:GLN:O	1:H:166:THR:CB	2.52	0.57
1:H:501:LEU:O	1:H:505:ARG:HG3	2.04	0.57
1:I:501:LEU:O	1:I:505:ARG:HG3	2.04	0.57
1:J:501:LEU:O	1:J:505:ARG:HG3	2.04	0.57
1:K:399:HIS:CE1	1:K:407:LEU:HD21	2.40	0.57
1:K:501:LEU:O	1:K:505:ARG:HG3	2.04	0.57
1:L:49:ILE:HD12	1:L:49:ILE:N	2.19	0.57
1:M:496:VAL:N	1:M:497:PRO:CD	2.67	0.57
1:N:4:ILE:CG1	1:N:501:LEU:HD12	2.02	0.57
1:O:97:GLN:O	1:O:103:ASN:ND2	2.38	0.57
1:P:335:LEU:HG	1:P:344:ALA:HB3	1.86	0.57
1:P:343:ALA:HB3	1:P:372:ASN:HB2	1.87	0.57
1:S:97:GLN:O	1:S:103:ASN:ND2	2.38	0.57
1:S:314:ALA:HB1	1:S:336:LYS:O	2.02	0.57
1:S:335:LEU:HG	1:S:344:ALA:HB3	1.86	0.57
1:S:375:GLY:O	1:S:379:GLY:CA	2.49	0.57
1:T:375:GLY:O	1:T:379:GLY:CA	2.49	0.57
1:A:45:ALA:O	1:A:49:ILE:CD1	2.46	0.57
1:B:161:GLN:O	1:B:166:THR:CB	2.52	0.57
1:C:335:LEU:HG	1:C:344:ALA:HB3	1.86	0.57
1:C:409:GLU:O	1:C:410:ALA:C	2.45	0.57
1:D:108:LEU:HD22	1:D:174:VAL:HG23	1.86	0.57
1:E:87:ASN:OD1	1:E:118:ARG:NH1	2.37	0.57
1:E:343:ALA:HB3	1:E:372:ASN:HB2	1.87	0.57
1:F:343:ALA:HB3	1:F:372:ASN:HB2	1.87	0.57
1:F:375:GLY:O	1:F:379:GLY:CA	2.49	0.57
1:F:409:GLU:O	1:F:410:ALA:C	2.45	0.57
1:G:45:ALA:O	1:G:49:ILE:CD1	2.46	0.57
1:G:45:ALA:CA	1:G:49:ILE:HD13	2.34	0.57
1:H:81:LEU:HD11	1:H:432:LEU:HD21	1.85	0.57
1:J:29:GLU:OE2	1:O:12:LEU:HD13	2.04	0.57
1:J:108:LEU:HD22	1:J:174:VAL:HG23	1.86	0.57
1:K:97:GLN:O	1:K:103:ASN:ND2	2.38	0.57
1:K:343:ALA:HB3	1:K:372:ASN:HB2	1.87	0.57
1:L:161:GLN:O	1:L:166:THR:CB	2.52	0.57
1:L:343:ALA:HB3	1:L:372:ASN:HB2	1.87	0.57
1:N:314:ALA:HB1	1:N:336:LYS:O	2.02	0.57
1:O:341:TYR:CB	1:O:374:LEU:HD12	2.18	0.57
1:Q:343:ALA:HB3	1:Q:372:ASN:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:343:ALA:HB3	1:R:372:ASN:HB2	1.87	0.57
1:T:87:ASN:OD1	1:T:118:ARG:NH1	2.37	0.57
1:A:419:LEU:CG	1:L:151:ASP:OD1	2.50	0.57
1:C:29:GLU:OE2	1:H:12:LEU:HD13	2.03	0.57
1:D:45:ALA:C	1:D:49:ILE:HD13	2.27	0.57
1:D:301:LEU:HD21	1:D:337:ALA:CB	2.24	0.57
1:D:375:GLY:O	1:D:379:GLY:CA	2.49	0.57
1:E:29:GLU:OE2	1:J:12:LEU:HD13	2.05	0.57
1:H:496:VAL:N	1:H:497:PRO:CD	2.67	0.57
1:I:35:LEU:HD21	1:T:5:ASN:CG	2.30	0.57
1:I:100:ASN:HD21	1:T:66:ASN:CG	2.12	0.57
1:I:496:VAL:N	1:I:497:PRO:CD	2.67	0.57
1:J:293:VAL:CG1	1:J:297:ALA:CB	2.69	0.57
1:J:343:ALA:HB3	1:J:372:ASN:HB2	1.87	0.57
1:M:161:GLN:O	1:M:166:THR:CB	2.52	0.57
1:N:335:LEU:HG	1:N:344:ALA:HB3	1.86	0.57
1:O:108:LEU:HD22	1:O:174:VAL:HG23	1.86	0.57
1:P:399:HIS:CE1	1:P:407:LEU:HD21	2.40	0.57
1:Q:501:LEU:HB3	1:Q:505:ARG:HH11	1.54	0.57
1:R:97:GLN:O	1:R:103:ASN:ND2	2.38	0.57
1:R:335:LEU:HG	1:R:344:ALA:HB3	1.86	0.57
1:T:108:LEU:HD22	1:T:174:VAL:HG23	1.86	0.57
1:T:360:TYR:CE1	1:T:386:ILE:CG1	2.82	0.57
1:U:496:VAL:N	1:U:497:PRO:CD	2.67	0.57
1:W:49:ILE:HD12	1:W:49:ILE:N	2.19	0.57
1:A:87:ASN:OD1	1:A:118:ARG:NH1	2.37	0.57
1:A:501:LEU:O	1:A:505:ARG:HG3	2.04	0.57
1:B:87:ASN:OD1	1:B:118:ARG:NH1	2.37	0.57
1:B:343:ALA:HB3	1:B:372:ASN:HB2	1.87	0.57
1:C:97:GLN:O	1:C:103:ASN:ND2	2.38	0.57
1:F:28:ILE:HG23	1:K:489:VAL:CG1	2.35	0.57
1:F:97:GLN:O	1:F:103:ASN:ND2	2.38	0.57
1:H:97:GLN:O	1:H:103:ASN:ND2	2.38	0.57
1:H:314:ALA:HB1	1:H:336:LYS:O	2.02	0.57
1:I:81:LEU:HD11	1:I:432:LEU:HD21	1.85	0.57
1:J:97:GLN:O	1:J:103:ASN:ND2	2.38	0.57
1:J:335:LEU:HG	1:J:344:ALA:HB3	1.86	0.57
1:J:463:ARG:HG2	1:J:463:ARG:NH1	2.16	0.57
1:M:375:GLY:O	1:M:379:GLY:CA	2.49	0.57
1:N:49:ILE:N	1:N:49:ILE:HD12	2.19	0.57
1:P:301:LEU:HD21	1:P:337:ALA:CB	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:496:VAL:N	1:Q:497:PRO:CD	2.67	0.57
1:S:343:ALA:HB3	1:S:372:ASN:HB2	1.87	0.57
1:W:343:ALA:HB3	1:W:372:ASN:HB2	1.87	0.57
1:W:496:VAL:N	1:W:497:PRO:CD	2.67	0.57
1:F:49:ILE:N	1:F:49:ILE:HD12	2.19	0.57
1:F:301:LEU:HD21	1:F:337:ALA:CB	2.25	0.57
1:F:399:HIS:CE1	1:F:407:LEU:HD21	2.40	0.57
1:G:161:GLN:O	1:G:166:THR:CB	2.52	0.57
1:G:301:LEU:HD21	1:G:337:ALA:CB	2.24	0.57
1:G:343:ALA:HB3	1:G:372:ASN:HB2	1.87	0.57
1:G:375:GLY:O	1:G:379:GLY:CA	2.49	0.57
1:J:87:ASN:OD1	1:J:118:ARG:NH1	2.37	0.57
1:K:358:THR:HG21	1:K:384:VAL:HG11	1.87	0.57
1:L:97:GLN:O	1:L:103:ASN:ND2	2.38	0.57
1:L:335:LEU:HG	1:L:344:ALA:HB3	1.86	0.57
1:O:87:ASN:OD1	1:O:118:ARG:NH1	2.37	0.57
1:O:501:LEU:O	1:O:505:ARG:HG3	2.04	0.57
1:P:97:GLN:O	1:P:103:ASN:ND2	2.38	0.57
1:Q:45:ALA:O	1:Q:49:ILE:CD1	2.46	0.57
1:R:501:LEU:O	1:R:505:ARG:HG3	2.04	0.57
1:S:81:LEU:HD11	1:S:432:LEU:HD21	1.85	0.57
1:U:463:ARG:HG2	1:U:463:ARG:NH1	2.16	0.57
1:W:399:HIS:CE1	1:W:407:LEU:HD21	2.40	0.57
1:A:343:ALA:HB3	1:A:372:ASN:HB2	1.87	0.56
1:B:496:VAL:N	1:B:497:PRO:CD	2.67	0.56
1:E:501:LEU:O	1:E:505:ARG:HG3	2.04	0.56
1:G:496:VAL:N	1:G:497:PRO:CD	2.67	0.56
1:H:343:ALA:HB3	1:H:372:ASN:HB2	1.87	0.56
1:I:117:GLN:CG	1:N:442:ARG:HD2	2.34	0.56
1:M:314:ALA:HB1	1:M:336:LYS:O	2.02	0.56
1:M:501:LEU:O	1:M:505:ARG:HG3	2.04	0.56
1:N:375:GLY:O	1:N:379:GLY:CA	2.49	0.56
1:N:501:LEU:O	1:N:505:ARG:HG3	2.04	0.56
1:O:81:LEU:HD11	1:O:432:LEU:HD21	1.85	0.56
1:O:496:VAL:N	1:O:497:PRO:CD	2.67	0.56
1:P:49:ILE:N	1:P:49:ILE:HD12	2.19	0.56
1:Q:306:VAL:CG1	1:Q:307:ASP:H	1.94	0.56
1:S:501:LEU:O	1:S:505:ARG:HG3	2.04	0.56
1:U:38:ASN:ND2	1:U:41:LYS:NZ	2.53	0.56
1:U:343:ALA:HB3	1:U:372:ASN:HB2	1.87	0.56
1:W:97:GLN:O	1:W:103:ASN:ND2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:335:LEU:HG	1:W:344:ALA:HB3	1.86	0.56
1:W:358:THR:HG21	1:W:384:VAL:HG11	1.87	0.56
1:A:375:GLY:O	1:A:379:GLY:CA	2.49	0.56
1:A:496:VAL:N	1:A:497:PRO:CD	2.67	0.56
1:B:29:GLU:OE2	1:G:12:LEU:HD13	2.04	0.56
1:B:117:GLN:CG	1:G:442:ARG:HD2	2.35	0.56
1:B:178:TYR:CD2	1:B:378:ASP:O	2.59	0.56
1:B:335:LEU:HG	1:B:344:ALA:HB3	1.86	0.56
1:C:343:ALA:HB3	1:C:372:ASN:HB2	1.87	0.56
1:E:28:ILE:HG23	1:J:489:VAL:CG1	2.35	0.56
1:H:364:ASP:CB	1:H:402:LYS:NZ	2.62	0.56
1:I:375:GLY:O	1:I:379:GLY:CA	2.49	0.56
1:O:335:LEU:HG	1:O:344:ALA:HB3	1.86	0.56
1:P:358:THR:HG21	1:P:384:VAL:HG11	1.87	0.56
1:Q:358:THR:HG21	1:Q:384:VAL:HG11	1.87	0.56
1:R:161:GLN:O	1:R:166:THR:CB	2.52	0.56
1:R:501:LEU:HB3	1:R:505:ARG:HH11	1.54	0.56
1:T:335:LEU:HG	1:T:344:ALA:HB3	1.86	0.56
1:T:501:LEU:O	1:T:505:ARG:HG3	2.04	0.56
1:U:335:LEU:HG	1:U:344:ALA:HB3	1.86	0.56
1:A:97:GLN:O	1:A:103:ASN:ND2	2.38	0.56
1:A:178:TYR:CD2	1:A:378:ASP:O	2.59	0.56
1:A:358:THR:HG21	1:A:384:VAL:HG11	1.87	0.56
1:A:364:ASP:CB	1:A:402:LYS:NZ	2.62	0.56
1:B:481:ILE:CD1	1:H:498:GLN:HB3	2.35	0.56
1:C:117:GLN:CG	1:H:442:ARG:HD2	2.34	0.56
1:D:97:GLN:O	1:D:103:ASN:ND2	2.38	0.56
1:D:107:ASP:OD2	1:T:49:ILE:CG1	2.53	0.56
1:E:107:ASP:OD2	1:U:49:ILE:CG1	2.54	0.56
1:E:399:HIS:CE1	1:E:407:LEU:HD21	2.40	0.56
1:F:358:THR:HG21	1:F:384:VAL:HG11	1.87	0.56
1:F:501:LEU:O	1:F:505:ARG:HG3	2.04	0.56
1:G:180:VAL:HG23	1:G:321:TYR:HD1	1.61	0.56
1:I:97:GLN:O	1:I:103:ASN:ND2	2.38	0.56
1:I:335:LEU:HG	1:I:344:ALA:HB3	1.86	0.56
1:L:45:ALA:CA	1:L:49:ILE:HD13	2.34	0.56
1:L:358:THR:HG21	1:L:384:VAL:HG11	1.87	0.56
1:M:97:GLN:O	1:M:103:ASN:ND2	2.38	0.56
1:N:97:GLN:O	1:N:103:ASN:ND2	2.38	0.56
1:N:343:ALA:HB3	1:N:372:ASN:HB2	1.87	0.56
1:O:28:ILE:HG23	1:T:489:VAL:CG1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:343:ALA:HB3	1:O:372:ASN:HB2	1.87	0.56
1:P:117:GLN:CG	1:U:442:ARG:HD2	2.34	0.56
1:R:496:VAL:N	1:R:497:PRO:CD	2.67	0.56
1:S:399:HIS:CE1	1:S:407:LEU:HD21	2.40	0.56
1:T:97:GLN:O	1:T:103:ASN:ND2	2.38	0.56
1:U:49:ILE:HD12	1:U:49:ILE:N	2.19	0.56
1:U:399:HIS:CE1	1:U:407:LEU:HD21	2.40	0.56
1:C:360:TYR:CE1	1:C:362:ALA:HB2	2.41	0.56
1:D:360:TYR:CE1	1:D:362:ALA:HB2	2.41	0.56
1:D:463:ARG:HG2	1:D:463:ARG:NH1	2.16	0.56
1:E:97:GLN:O	1:E:103:ASN:ND2	2.38	0.56
1:E:358:THR:HG21	1:E:384:VAL:HG11	1.87	0.56
1:F:87:ASN:OD1	1:F:118:ARG:NH1	2.37	0.56
1:F:386:ILE:CB	1:F:401:PHE:HE2	2.19	0.56
1:G:97:GLN:O	1:G:103:ASN:ND2	2.38	0.56
1:G:178:TYR:CD2	1:G:378:ASP:O	2.58	0.56
1:J:28:ILE:HG23	1:O:489:VAL:CG1	2.35	0.56
1:J:419:LEU:HD12	1:U:151:ASP:HA	1.87	0.56
1:P:178:TYR:CD2	1:P:378:ASP:O	2.59	0.56
1:T:343:ALA:HB3	1:T:372:ASN:HB2	1.87	0.56
1:T:360:TYR:CE1	1:T:362:ALA:HB2	2.41	0.56
1:T:399:HIS:CE1	1:T:407:LEU:HD21	2.40	0.56
1:U:180:VAL:HG23	1:U:321:TYR:HD1	1.61	0.56
1:U:358:THR:HG21	1:U:384:VAL:HG11	1.87	0.56
1:W:147:VAL:HG21	1:W:155:ILE:CD1	2.35	0.56
1:A:117:GLN:CG	1:F:442:ARG:HD2	2.36	0.56
1:A:147:VAL:HG21	1:A:155:ILE:CD1	2.35	0.56
1:A:487:THR:HG21	1:F:500:VAL:HA	1.88	0.56
1:D:81:LEU:HD11	1:D:432:LEU:HD21	1.85	0.56
1:D:178:TYR:CD2	1:D:378:ASP:O	2.58	0.56
1:G:87:ASN:OD1	1:G:118:ARG:NH1	2.37	0.56
1:H:364:ASP:OD1	1:H:364:ASP:O	2.24	0.56
1:J:178:TYR:CD2	1:J:378:ASP:O	2.59	0.56
1:M:399:HIS:CE1	1:M:407:LEU:HD21	2.40	0.56
1:O:360:TYR:CE1	1:O:386:ILE:CG1	2.82	0.56
1:O:360:TYR:CE1	1:O:362:ALA:HB2	2.41	0.56
1:Q:399:HIS:CE1	1:Q:407:LEU:HD21	2.40	0.56
1:T:178:TYR:CD2	1:T:378:ASP:O	2.59	0.56
1:W:178:TYR:CD2	1:W:378:ASP:O	2.59	0.56
1:C:501:LEU:HB3	1:C:505:ARG:HH11	1.54	0.56
1:D:335:LEU:HG	1:D:344:ALA:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:343:ALA:HB3	1:D:372:ASN:HB2	1.87	0.56
1:E:360:TYR:CE1	1:E:362:ALA:HB2	2.41	0.56
1:F:364:ASP:O	1:F:364:ASP:OD1	2.24	0.56
1:H:375:GLY:O	1:H:379:GLY:CA	2.49	0.56
1:I:343:ALA:HB3	1:I:372:ASN:HB2	1.87	0.56
1:I:350:THR:OG1	1:I:351:GLY:N	2.39	0.56
1:K:100:ASN:HD21	1:W:66:ASN:CG	2.13	0.56
1:M:45:ALA:O	1:M:49:ILE:CD1	2.46	0.56
1:N:28:ILE:HG23	1:S:489:VAL:CG1	2.35	0.56
1:N:360:TYR:CE1	1:N:362:ALA:HB2	2.41	0.56
1:S:306:VAL:CG1	1:S:307:ASP:H	1.94	0.56
1:A:399:HIS:CE1	1:A:407:LEU:HD21	2.40	0.56
1:B:28:ILE:HG23	1:G:489:VAL:CG1	2.35	0.56
1:C:100:ASN:HD21	1:N:66:ASN:CG	2.13	0.56
1:C:399:HIS:CE1	1:C:407:LEU:HD21	2.40	0.56
1:D:350:THR:OG1	1:D:351:GLY:N	2.39	0.56
1:E:364:ASP:CG	1:E:402:LYS:HZ1	2.08	0.56
1:G:100:ASN:HD21	1:R:66:ASN:CG	2.14	0.56
1:H:178:TYR:CD2	1:H:378:ASP:O	2.59	0.56
1:I:360:TYR:CE1	1:I:362:ALA:HB2	2.41	0.56
1:J:147:VAL:HG21	1:J:155:ILE:CD1	2.35	0.56
1:L:364:ASP:O	1:L:364:ASP:OD1	2.24	0.56
1:M:117:GLN:CG	1:R:442:ARG:HD2	2.35	0.56
1:M:386:ILE:CB	1:M:401:PHE:HE2	2.19	0.56
1:N:364:ASP:OD1	1:N:364:ASP:O	2.24	0.56
1:N:399:HIS:CE1	1:N:407:LEU:HD21	2.40	0.56
1:P:360:TYR:CE1	1:P:362:ALA:HB2	2.41	0.56
1:Q:45:ALA:CA	1:Q:49:ILE:HD13	2.34	0.56
1:Q:65:ARG:NH2	1:W:36:ARG:HH22	2.04	0.56
1:Q:97:GLN:O	1:Q:103:ASN:ND2	2.38	0.56
1:Q:178:TYR:CD2	1:Q:378:ASP:O	2.59	0.56
1:R:399:HIS:CE1	1:R:407:LEU:HD21	2.40	0.56
1:S:174:VAL:O	1:S:174:VAL:HG23	2.06	0.56
1:T:350:THR:OG1	1:T:351:GLY:N	2.39	0.56
1:A:360:TYR:CE1	1:A:386:ILE:CG1	2.82	0.56
1:B:4:ILE:CG1	1:B:501:LEU:HD12	2.02	0.56
1:B:386:ILE:CB	1:B:401:PHE:HE2	2.19	0.56
1:B:399:HIS:CE1	1:B:407:LEU:HD21	2.40	0.56
1:C:174:VAL:O	1:C:174:VAL:HG23	2.06	0.56
1:E:364:ASP:OD1	1:E:364:ASP:O	2.24	0.56
1:F:178:TYR:CD2	1:F:378:ASP:O	2.59	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:496:VAL:N	1:F:497:PRO:CD	2.67	0.56
1:G:386:ILE:CB	1:G:401:PHE:HE2	2.19	0.56
1:H:350:THR:OG1	1:H:351:GLY:N	2.39	0.56
1:H:399:HIS:CE1	1:H:407:LEU:HD21	2.40	0.56
1:K:29:GLU:OE2	1:P:12:LEU:HD13	2.06	0.56
1:L:360:TYR:CE1	1:L:386:ILE:CG1	2.82	0.56
1:L:386:ILE:CB	1:L:401:PHE:HE2	2.19	0.56
1:L:496:VAL:N	1:L:497:PRO:CD	2.67	0.56
1:O:399:HIS:CE1	1:O:407:LEU:HD21	2.40	0.56
1:P:364:ASP:OD1	1:P:364:ASP:O	2.24	0.56
1:Q:386:ILE:CB	1:Q:401:PHE:HE2	2.19	0.56
1:R:178:TYR:CD2	1:R:378:ASP:O	2.59	0.56
1:R:360:TYR:CE1	1:R:386:ILE:CG1	2.82	0.56
1:R:364:ASP:OD1	1:R:364:ASP:O	2.24	0.56
1:W:364:ASP:OD1	1:W:364:ASP:O	2.24	0.56
1:A:364:ASP:O	1:A:364:ASP:OD1	2.24	0.56
1:B:375:GLY:O	1:B:379:GLY:CA	2.49	0.56
1:C:178:TYR:CD2	1:C:378:ASP:O	2.59	0.56
1:D:358:THR:HG21	1:D:384:VAL:HG11	1.87	0.56
1:G:358:THR:HG21	1:G:384:VAL:HG11	1.87	0.56
1:J:358:THR:HG21	1:J:384:VAL:HG11	1.87	0.56
1:J:360:TYR:CE1	1:J:362:ALA:HB2	2.41	0.56
1:M:28:ILE:HG23	1:R:489:VAL:CG1	2.36	0.56
1:O:174:VAL:O	1:O:174:VAL:HG23	2.06	0.56
1:P:65:ARG:NH2	1:U:36:ARG:HH22	2.04	0.56
1:P:174:VAL:O	1:P:174:VAL:HG23	2.06	0.56
1:S:364:ASP:OD1	1:S:364:ASP:O	2.24	0.56
1:T:81:LEU:HD11	1:T:432:LEU:HD21	1.85	0.56
1:B:174:VAL:O	1:B:174:VAL:HG23	2.06	0.56
1:D:28:ILE:HG23	1:I:489:VAL:CG1	2.36	0.56
1:E:386:ILE:CB	1:E:401:PHE:HE2	2.19	0.56
1:F:147:VAL:HG21	1:F:155:ILE:CD1	2.35	0.56
1:H:301:LEU:HD21	1:H:337:ALA:CB	2.24	0.56
1:H:306:VAL:CG1	1:H:307:ASP:N	2.53	0.56
1:I:399:HIS:CE1	1:I:407:LEU:HD21	2.40	0.56
1:K:87:ASN:OD1	1:K:118:ARG:NH1	2.37	0.56
1:L:74:ALA:HB1	1:L:440:GLN:HE21	1.71	0.56
1:L:501:LEU:HB3	1:L:505:ARG:HH11	1.54	0.56
1:M:487:THR:HG21	1:R:500:VAL:HA	1.88	0.56
1:N:178:TYR:CD2	1:N:378:ASP:O	2.59	0.56
1:O:364:ASP:OD1	1:O:364:ASP:O	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:306:VAL:CG1	1:R:307:ASP:H	1.94	0.56
1:U:97:GLN:O	1:U:103:ASN:ND2	2.38	0.56
1:U:350:THR:OG1	1:U:351:GLY:N	2.39	0.56
1:A:45:ALA:CA	1:A:49:ILE:HD13	2.34	0.55
1:A:65:ARG:NH2	1:F:36:ARG:HH22	2.03	0.55
1:B:314:ALA:HB1	1:B:336:LYS:O	2.02	0.55
1:B:364:ASP:OD1	1:B:364:ASP:O	2.24	0.55
1:C:350:THR:OG1	1:C:351:GLY:N	2.39	0.55
1:D:399:HIS:CE1	1:D:407:LEU:HD21	2.40	0.55
1:D:419:LEU:CG	1:O:151:ASP:OD1	2.54	0.55
1:E:481:ILE:CD1	1:K:498:GLN:HB3	2.36	0.55
1:G:74:ALA:HB1	1:G:440:GLN:HE21	1.71	0.55
1:I:28:ILE:HG23	1:N:489:VAL:CG1	2.36	0.55
1:I:293:VAL:CG1	1:I:297:ALA:CB	2.69	0.55
1:J:35:LEU:HD21	1:U:5:ASN:CG	2.31	0.55
1:J:100:ASN:HD21	1:U:66:ASN:CG	2.13	0.55
1:L:65:ARG:NH2	1:Q:36:ARG:HH22	2.04	0.55
1:O:74:ALA:HB1	1:O:440:GLN:HE21	1.71	0.55
1:O:178:TYR:CD2	1:O:378:ASP:O	2.58	0.55
1:P:386:ILE:CB	1:P:401:PHE:HE2	2.19	0.55
1:S:178:TYR:CD2	1:S:378:ASP:O	2.58	0.55
1:T:463:ARG:HG2	1:T:463:ARG:NH1	2.16	0.55
1:W:45:ALA:CA	1:W:49:ILE:HD13	2.34	0.55
1:W:360:TYR:CE1	1:W:362:ALA:HB2	2.41	0.55
1:W:386:ILE:CB	1:W:401:PHE:HE2	2.19	0.55
1:D:364:ASP:O	1:D:364:ASP:OD1	2.24	0.55
1:G:399:HIS:CE1	1:G:407:LEU:HD21	2.40	0.55
1:H:28:ILE:HG23	1:M:489:VAL:CG1	2.37	0.55
1:I:38:ASN:ND2	1:I:41:LYS:NZ	2.53	0.55
1:J:399:HIS:CE1	1:J:407:LEU:HD21	2.40	0.55
1:K:28:ILE:HG23	1:P:489:VAL:CG1	2.37	0.55
1:M:178:TYR:CD2	1:M:378:ASP:O	2.59	0.55
1:M:350:THR:OG1	1:M:351:GLY:N	2.39	0.55
1:N:65:ARG:NH2	1:S:36:ARG:HH22	2.04	0.55
1:N:386:ILE:CB	1:N:401:PHE:HE2	2.19	0.55
1:O:29:GLU:OE2	1:T:12:LEU:HD13	2.06	0.55
1:O:358:THR:HG21	1:O:384:VAL:HG11	1.87	0.55
1:Q:364:ASP:O	1:Q:364:ASP:OD1	2.24	0.55
1:R:358:THR:HG21	1:R:384:VAL:HG11	1.87	0.55
1:U:360:TYR:CE1	1:U:362:ALA:HB2	2.41	0.55
1:U:364:ASP:CB	1:U:402:LYS:NZ	2.62	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:501:LEU:HB3	1:B:505:ARG:HH11	1.54	0.55
1:C:364:ASP:OD1	1:C:364:ASP:O	2.24	0.55
1:C:468:ASP:CB	1:N:2:GLN:H	2.18	0.55
1:G:66:ASN:O	1:G:69:ASP:HB3	2.07	0.55
1:I:29:GLU:OE2	1:N:12:LEU:HD13	2.05	0.55
1:L:28:ILE:HG23	1:Q:489:VAL:CG1	2.35	0.55
1:L:87:ASN:OD1	1:L:118:ARG:NH1	2.37	0.55
1:L:178:TYR:CD2	1:L:378:ASP:O	2.59	0.55
1:N:350:THR:OG1	1:N:351:GLY:N	2.39	0.55
1:R:174:VAL:O	1:R:174:VAL:HG23	2.06	0.55
1:S:147:VAL:HG21	1:S:155:ILE:CD1	2.35	0.55
1:T:174:VAL:O	1:T:174:VAL:HG23	2.06	0.55
1:A:66:ASN:O	1:A:69:ASP:HB3	2.07	0.55
1:A:74:ALA:HB1	1:A:440:GLN:HE21	1.71	0.55
1:B:74:ALA:HB1	1:B:440:GLN:HE21	1.71	0.55
1:C:81:LEU:HD11	1:C:432:LEU:HD21	1.85	0.55
1:D:35:LEU:HD21	1:O:5:ASN:CG	2.31	0.55
1:E:100:ASN:HD21	1:P:66:ASN:CG	2.14	0.55
1:E:178:TYR:CD2	1:E:378:ASP:O	2.59	0.55
1:G:364:ASP:OD1	1:G:364:ASP:O	2.24	0.55
1:I:178:TYR:CD2	1:I:378:ASP:O	2.59	0.55
1:K:174:VAL:O	1:K:174:VAL:HG23	2.06	0.55
1:K:419:LEU:HD12	1:W:151:ASP:HA	1.88	0.55
1:L:399:HIS:CE1	1:L:407:LEU:HD21	2.40	0.55
1:L:487:THR:HG21	1:Q:500:VAL:HA	1.89	0.55
1:M:501:LEU:HB3	1:M:505:ARG:HH11	1.54	0.55
1:N:174:VAL:O	1:N:174:VAL:HG23	2.06	0.55
1:P:87:ASN:OD1	1:P:118:ARG:NH1	2.37	0.55
1:Q:74:ALA:HB1	1:Q:440:GLN:HE21	1.72	0.55
1:Q:174:VAL:O	1:Q:174:VAL:HG23	2.06	0.55
1:R:38:ASN:ND2	1:R:41:LYS:NZ	2.53	0.55
1:A:174:VAL:O	1:A:174:VAL:HG23	2.06	0.55
1:B:81:LEU:HD11	1:B:432:LEU:HD21	1.85	0.55
1:B:468:ASP:CB	1:M:2:GLN:H	2.19	0.55
1:C:66:ASN:O	1:C:69:ASP:HB3	2.07	0.55
1:C:386:ILE:CB	1:C:401:PHE:HE2	2.19	0.55
1:D:66:ASN:O	1:D:69:ASP:HB3	2.07	0.55
1:E:350:THR:OG1	1:E:351:GLY:N	2.39	0.55
1:H:66:ASN:O	1:H:69:ASP:HB3	2.07	0.55
1:H:468:ASP:CB	1:S:2:GLN:H	2.19	0.55
1:H:501:LEU:HB3	1:H:505:ARG:HH11	1.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:358:THR:HG21	1:I:384:VAL:HG11	1.87	0.55
1:I:364:ASP:O	1:I:364:ASP:OD1	2.24	0.55
1:J:174:VAL:O	1:J:174:VAL:HG23	2.06	0.55
1:J:350:THR:OG1	1:J:351:GLY:N	2.39	0.55
1:K:35:LEU:HD21	1:W:5:ASN:CG	2.30	0.55
1:K:360:TYR:CE1	1:K:362:ALA:HB2	2.41	0.55
1:L:364:ASP:CB	1:L:402:LYS:NZ	2.62	0.55
1:S:358:THR:HG21	1:S:384:VAL:HG11	1.87	0.55
1:S:360:TYR:CE1	1:S:362:ALA:HB2	2.41	0.55
1:U:38:ASN:ND2	1:U:41:LYS:HZ1	2.05	0.55
1:U:178:TYR:CD2	1:U:378:ASP:O	2.59	0.55
1:W:74:ALA:HB1	1:W:440:GLN:HE21	1.71	0.55
1:B:358:THR:HG21	1:B:384:VAL:HG11	1.87	0.55
1:D:174:VAL:O	1:D:174:VAL:HG23	2.06	0.55
1:F:45:ALA:CA	1:F:49:ILE:HD13	2.34	0.55
1:F:74:ALA:HB1	1:F:440:GLN:HE21	1.71	0.55
1:F:419:LEU:CG	1:Q:151:ASP:OD1	2.53	0.55
1:G:21:GLN:OE1	1:G:483:GLN:NE2	2.40	0.55
1:H:87:ASN:OD1	1:H:118:ARG:NH1	2.37	0.55
1:J:45:ALA:CA	1:J:49:ILE:HD13	2.34	0.55
1:J:74:ALA:HB1	1:J:440:GLN:HE21	1.71	0.55
1:J:360:TYR:CE1	1:J:386:ILE:CG1	2.82	0.55
1:K:178:TYR:CD2	1:K:378:ASP:O	2.59	0.55
1:K:364:ASP:OD1	1:K:364:ASP:O	2.24	0.55
1:L:21:GLN:OE1	1:L:483:GLN:NE2	2.40	0.55
1:M:66:ASN:O	1:M:69:ASP:HB3	2.07	0.55
1:M:87:ASN:OD1	1:M:118:ARG:NH1	2.37	0.55
1:M:360:TYR:CE1	1:M:362:ALA:HB2	2.41	0.55
1:N:358:THR:HG21	1:N:384:VAL:HG11	1.87	0.55
1:O:350:THR:OG1	1:O:351:GLY:N	2.39	0.55
1:O:386:ILE:CB	1:O:401:PHE:HE2	2.19	0.55
1:P:463:ARG:HG2	1:P:463:ARG:NH1	2.16	0.55
1:S:66:ASN:O	1:S:69:ASP:HB3	2.07	0.55
1:S:180:VAL:HG23	1:S:321:TYR:HD1	1.61	0.55
1:S:350:THR:OG1	1:S:351:GLY:N	2.39	0.55
1:T:66:ASN:O	1:T:69:ASP:HB3	2.07	0.55
1:T:74:ALA:HB1	1:T:440:GLN:HE21	1.71	0.55
1:A:386:ILE:CB	1:A:401:PHE:HE2	2.19	0.55
1:A:468:ASP:CB	1:L:2:GLN:H	2.20	0.55
1:C:35:LEU:HD21	1:N:5:ASN:CG	2.31	0.55
1:C:74:ALA:HB1	1:C:440:GLN:HE21	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:358:THR:HG21	1:C:384:VAL:HG11	1.87	0.55
1:D:386:ILE:CB	1:D:401:PHE:HE2	2.19	0.55
1:E:364:ASP:CB	1:E:402:LYS:NZ	2.62	0.55
1:H:174:VAL:O	1:H:174:VAL:HG23	2.06	0.55
1:H:419:LEU:HD12	1:S:151:ASP:HA	1.88	0.55
1:I:468:ASP:CB	1:T:2:GLN:H	2.19	0.55
1:J:65:ARG:NH2	1:O:36:ARG:HH22	2.05	0.55
1:J:66:ASN:O	1:J:69:ASP:HB3	2.07	0.55
1:U:87:ASN:OD1	1:U:118:ARG:NH1	2.37	0.55
1:U:360:TYR:CE1	1:U:386:ILE:CG1	2.82	0.55
1:W:66:ASN:O	1:W:69:ASP:HB3	2.07	0.55
1:C:21:GLN:OE1	1:C:483:GLN:NE2	2.40	0.55
1:D:100:ASN:HD21	1:O:66:ASN:CG	2.14	0.55
1:G:350:THR:OG1	1:G:351:GLY:N	2.39	0.55
1:M:65:ARG:NH2	1:R:36:ARG:HH22	2.05	0.55
1:M:358:THR:HG21	1:M:384:VAL:HG11	1.87	0.55
1:N:66:ASN:O	1:N:69:ASP:HB3	2.07	0.55
1:O:147:VAL:HG21	1:O:155:ILE:CD1	2.35	0.55
1:P:45:ALA:O	1:P:49:ILE:CD1	2.46	0.55
1:P:66:ASN:O	1:P:69:ASP:HB3	2.07	0.55
1:Q:21:GLN:OE1	1:Q:483:GLN:NE2	2.40	0.55
1:R:81:LEU:HD11	1:R:432:LEU:HD21	1.85	0.55
1:R:364:ASP:CB	1:R:402:LYS:NZ	2.62	0.55
1:R:386:ILE:CB	1:R:401:PHE:HE2	2.19	0.55
1:U:45:ALA:CA	1:U:49:ILE:HD13	2.34	0.55
1:U:364:ASP:OD1	1:U:364:ASP:O	2.24	0.55
1:B:107:ASP:OD2	1:R:49:ILE:CG1	2.55	0.55
1:D:74:ALA:HB1	1:D:440:GLN:HE21	1.71	0.55
1:E:117:GLN:CG	1:J:442:ARG:HD2	2.36	0.55
1:F:360:TYR:CE1	1:F:362:ALA:HB2	2.41	0.55
1:G:174:VAL:O	1:G:174:VAL:HG23	2.06	0.55
1:G:360:TYR:CE1	1:G:362:ALA:HB2	2.41	0.55
1:G:468:ASP:CB	1:R:2:GLN:H	2.20	0.55
1:H:21:GLN:OE1	1:H:483:GLN:NE2	2.40	0.55
1:H:358:THR:HG21	1:H:384:VAL:HG11	1.87	0.55
1:H:386:ILE:CB	1:H:401:PHE:HE2	2.19	0.55
1:L:66:ASN:O	1:L:69:ASP:HB3	2.07	0.55
1:R:74:ALA:HB1	1:R:440:GLN:HE21	1.71	0.55
1:S:386:ILE:CB	1:S:401:PHE:HE2	2.19	0.55
1:T:358:THR:HG21	1:T:384:VAL:HG11	1.87	0.55
1:C:87:ASN:OD1	1:C:118:ARG:NH1	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:174:VAL:O	1:E:174:VAL:HG23	2.06	0.55
1:E:468:ASP:CB	1:P:2:GLN:H	2.19	0.55
1:G:29:GLU:OE2	1:L:12:LEU:HD13	2.06	0.55
1:H:360:TYR:CE1	1:H:362:ALA:HB2	2.41	0.55
1:I:360:TYR:CE1	1:I:386:ILE:CG1	2.82	0.55
1:I:419:LEU:CG	1:T:151:ASP:OD1	2.55	0.55
1:I:463:ARG:HG2	1:I:463:ARG:NH1	2.16	0.55
1:K:147:VAL:HG21	1:K:155:ILE:CD1	2.35	0.55
1:L:174:VAL:O	1:L:174:VAL:HG23	2.06	0.55
1:M:174:VAL:O	1:M:174:VAL:HG23	2.06	0.55
1:M:364:ASP:OD1	1:M:364:ASP:O	2.24	0.55
1:R:66:ASN:O	1:R:69:ASP:HB3	2.07	0.55
1:W:350:THR:OG1	1:W:351:GLY:N	2.39	0.55
1:C:147:VAL:HG21	1:C:155:ILE:CD1	2.35	0.54
1:E:66:ASN:O	1:E:69:ASP:HB3	2.07	0.54
1:E:180:VAL:HG23	1:E:321:TYR:HD1	1.61	0.54
1:F:468:ASP:CB	1:Q:2:GLN:H	2.20	0.54
1:J:364:ASP:OD1	1:J:364:ASP:O	2.24	0.54
1:K:386:ILE:CB	1:K:401:PHE:HE2	2.19	0.54
1:L:180:VAL:HG23	1:L:321:TYR:HD1	1.61	0.54
1:N:360:TYR:CE1	1:N:386:ILE:CG1	2.82	0.54
1:O:45:ALA:CA	1:O:49:ILE:HD13	2.34	0.54
1:P:81:LEU:HD11	1:P:432:LEU:HD21	1.85	0.54
1:P:350:THR:OG1	1:P:351:GLY:N	2.39	0.54
1:R:360:TYR:CE1	1:R:362:ALA:HB2	2.41	0.54
1:T:45:ALA:CA	1:T:49:ILE:HD13	2.34	0.54
1:U:174:VAL:O	1:U:174:VAL:HG23	2.06	0.54
1:B:66:ASN:O	1:B:69:ASP:HB3	2.07	0.54
1:C:487:THR:HG21	1:H:500:VAL:HA	1.89	0.54
1:G:81:LEU:HD11	1:G:432:LEU:HD21	1.85	0.54
1:K:45:ALA:CA	1:K:49:ILE:HD13	2.34	0.54
1:K:66:ASN:O	1:K:69:ASP:HB3	2.07	0.54
1:K:74:ALA:HB1	1:K:440:GLN:HE21	1.71	0.54
1:K:501:LEU:HB3	1:K:505:ARG:HH11	1.54	0.54
1:L:360:TYR:CE1	1:L:362:ALA:HB2	2.41	0.54
1:O:66:ASN:O	1:O:69:ASP:HB3	2.07	0.54
1:P:45:ALA:CA	1:P:49:ILE:HD13	2.34	0.54
1:Q:301:LEU:HD21	1:Q:337:ALA:CB	2.24	0.54
1:T:364:ASP:O	1:T:364:ASP:OD1	2.24	0.54
1:U:21:GLN:OE1	1:U:483:GLN:NE2	2.40	0.54
1:U:386:ILE:CB	1:U:401:PHE:HE2	2.19	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:21:GLN:OE1	1:W:483:GLN:NE2	2.40	0.54
1:B:350:THR:OG1	1:B:351:GLY:N	2.39	0.54
1:B:360:TYR:CE1	1:B:362:ALA:HB2	2.41	0.54
1:C:28:ILE:HG23	1:H:489:VAL:CG1	2.38	0.54
1:C:65:ARG:NH2	1:H:36:ARG:HH22	2.06	0.54
1:C:419:LEU:CG	1:N:151:ASP:OD1	2.54	0.54
1:F:66:ASN:O	1:F:69:ASP:HB3	2.07	0.54
1:F:501:LEU:HB3	1:F:505:ARG:HH11	1.54	0.54
1:H:147:VAL:HG21	1:H:155:ILE:CD1	2.35	0.54
1:J:81:LEU:HD11	1:J:432:LEU:HD21	1.85	0.54
1:L:350:THR:OG1	1:L:351:GLY:N	2.39	0.54
1:M:74:ALA:HB1	1:M:440:GLN:HE21	1.71	0.54
1:M:147:VAL:HG21	1:M:155:ILE:CD1	2.35	0.54
1:Q:66:ASN:O	1:Q:69:ASP:HB3	2.07	0.54
1:Q:87:ASN:OD1	1:Q:118:ARG:NH1	2.37	0.54
1:A:360:TYR:CE1	1:A:362:ALA:HB2	2.41	0.54
1:D:29:GLU:OE2	1:I:12:LEU:HD13	2.07	0.54
1:E:65:ARG:NH2	1:J:36:ARG:HH22	2.05	0.54
1:E:81:LEU:HD11	1:E:432:LEU:HD21	1.85	0.54
1:F:174:VAL:O	1:F:174:VAL:HG23	2.06	0.54
1:F:350:THR:OG1	1:F:351:GLY:N	2.39	0.54
1:G:419:LEU:CG	1:R:151:ASP:OD1	2.55	0.54
1:H:74:ALA:HB1	1:H:440:GLN:HE21	1.71	0.54
1:I:386:ILE:CB	1:I:401:PHE:HE2	2.19	0.54
1:J:386:ILE:CB	1:J:401:PHE:HE2	2.19	0.54
1:K:468:ASP:CB	1:W:2:GLN:H	2.19	0.54
1:M:21:GLN:OE1	1:M:483:GLN:NE2	2.40	0.54
1:R:306:VAL:CG2	1:R:342:TYR:OH	2.56	0.54
1:T:386:ILE:CB	1:T:401:PHE:HE2	2.19	0.54
1:W:364:ASP:CB	1:W:402:LYS:NZ	2.62	0.54
1:C:463:ARG:HG2	1:C:463:ARG:NH1	2.16	0.54
1:D:314:ALA:HB1	1:D:336:LYS:O	2.02	0.54
1:D:364:ASP:CB	1:D:402:LYS:NZ	2.62	0.54
1:G:31:LEU:HD23	1:G:469:TYR:CE1	2.40	0.54
1:I:45:ALA:CA	1:I:49:ILE:HD13	2.34	0.54
1:K:350:THR:OG1	1:K:351:GLY:N	2.39	0.54
1:L:293:VAL:CG1	1:L:297:ALA:CB	2.69	0.54
1:Q:306:VAL:CG2	1:Q:342:TYR:OH	2.56	0.54
1:R:87:ASN:OD1	1:R:118:ARG:NH1	2.37	0.54
1:S:74:ALA:HB1	1:S:440:GLN:HE21	1.71	0.54
1:W:401:PHE:CE1	1:W:407:LEU:HD11	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:155:ILE:HG21	1:A:443:PHE:CE1	2.43	0.54
1:G:28:ILE:HG23	1:L:489:VAL:CG1	2.37	0.54
1:J:155:ILE:HG21	1:J:443:PHE:CE1	2.43	0.54
1:K:35:LEU:HD21	1:W:5:ASN:HD21	1.64	0.54
1:K:155:ILE:HG21	1:K:443:PHE:CE1	2.43	0.54
1:L:306:VAL:CG2	1:L:342:TYR:OH	2.56	0.54
1:M:81:LEU:HD11	1:M:432:LEU:HD21	1.85	0.54
1:Q:360:TYR:CE1	1:Q:362:ALA:HB2	2.41	0.54
1:R:21:GLN:OE1	1:R:483:GLN:NE2	2.40	0.54
1:R:147:VAL:HG21	1:R:155:ILE:CD1	2.35	0.54
1:U:81:LEU:HD11	1:U:432:LEU:HD21	1.85	0.54
1:W:174:VAL:O	1:W:174:VAL:HG23	2.06	0.54
1:W:306:VAL:CG2	1:W:342:TYR:OH	2.56	0.54
1:B:35:LEU:HD21	1:M:5:ASN:CG	2.31	0.54
1:B:65:ARG:NH2	1:G:36:ARG:HH22	2.06	0.54
1:G:364:ASP:CB	1:G:402:LYS:NZ	2.62	0.54
1:G:501:LEU:HB3	1:G:505:ARG:HH11	1.54	0.54
1:I:35:LEU:CD2	1:T:5:ASN:HD22	2.18	0.54
1:M:306:VAL:CG2	1:M:342:TYR:OH	2.56	0.54
1:N:74:ALA:HB1	1:N:440:GLN:HE21	1.71	0.54
1:T:364:ASP:CB	1:T:402:LYS:NZ	2.62	0.54
1:D:45:ALA:CA	1:D:49:ILE:HD13	2.34	0.54
1:H:155:ILE:HG21	1:H:443:PHE:CE1	2.43	0.54
1:N:155:ILE:HG21	1:N:443:PHE:CE1	2.43	0.54
1:R:155:ILE:HG21	1:R:443:PHE:CE1	2.43	0.54
1:R:350:THR:OG1	1:R:351:GLY:N	2.39	0.54
1:S:401:PHE:CE1	1:S:407:LEU:HD11	2.36	0.54
1:U:155:ILE:HG21	1:U:443:PHE:CE1	2.43	0.54
1:C:4:ILE:CG1	1:C:501:LEU:HD12	2.02	0.54
1:D:4:ILE:CG1	1:D:501:LEU:HD12	2.02	0.54
1:D:21:GLN:OE1	1:D:483:GLN:NE2	2.40	0.54
1:D:468:ASP:CB	1:O:2:GLN:H	2.19	0.54
1:G:306:VAL:CG2	1:G:342:TYR:OH	2.56	0.54
1:H:419:LEU:CG	1:S:151:ASP:OD1	2.55	0.54
1:K:101:SER:OG	1:W:143:LEU:CB	2.51	0.54
1:L:155:ILE:HG21	1:L:443:PHE:CE1	2.43	0.54
1:O:65:ARG:NH2	1:T:36:ARG:HH22	2.06	0.54
1:Q:155:ILE:HG21	1:Q:443:PHE:CE1	2.43	0.54
1:U:31:LEU:HD23	1:U:469:TYR:CE1	2.40	0.54
1:B:155:ILE:HG21	1:B:443:PHE:CE1	2.43	0.54
1:B:293:VAL:CG1	1:B:297:ALA:CB	2.69	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:401:PHE:CE1	1:D:407:LEU:HD11	2.36	0.54
1:E:155:ILE:HG21	1:E:443:PHE:CE1	2.43	0.54
1:E:364:ASP:HB2	1:E:402:LYS:HZ3	1.69	0.54
1:E:463:ARG:HG2	1:E:463:ARG:NH1	2.16	0.54
1:I:66:ASN:O	1:I:69:ASP:HB3	2.07	0.54
1:I:74:ALA:HB1	1:I:440:GLN:HE21	1.71	0.54
1:I:174:VAL:O	1:I:174:VAL:HG23	2.06	0.54
1:J:31:LEU:HD23	1:J:469:TYR:CE1	2.40	0.54
1:P:74:ALA:HB1	1:P:440:GLN:HE21	1.71	0.54
1:Q:350:THR:OG1	1:Q:351:GLY:N	2.39	0.54
1:B:93:GLU:HG3	1:M:62:GLN:HB2	1.90	0.53
1:D:155:ILE:HG21	1:D:443:PHE:CE1	2.43	0.53
1:E:35:LEU:HD21	1:P:5:ASN:CG	2.32	0.53
1:E:74:ALA:HB1	1:E:440:GLN:HE21	1.71	0.53
1:I:147:VAL:HG21	1:I:155:ILE:CD1	2.35	0.53
1:I:155:ILE:HG21	1:I:443:PHE:CE1	2.43	0.53
1:T:155:ILE:HG21	1:T:443:PHE:CE1	2.43	0.53
1:W:155:ILE:HG21	1:W:443:PHE:CE1	2.43	0.53
1:W:360:TYR:CE1	1:W:386:ILE:CG1	2.82	0.53
1:A:301:LEU:HD21	1:A:337:ALA:CB	2.24	0.53
1:A:419:LEU:CD1	1:L:151:ASP:HA	2.37	0.53
1:D:31:LEU:HD23	1:D:469:TYR:CE1	2.40	0.53
1:E:301:LEU:HD11	1:E:342:TYR:CD2	2.44	0.53
1:G:91:VAL:HG12	1:G:422:ILE:HD13	1.91	0.53
1:I:21:GLN:OE1	1:I:483:GLN:NE2	2.40	0.53
1:I:65:ARG:NH2	1:N:36:ARG:HH22	2.06	0.53
1:J:91:VAL:HG12	1:J:422:ILE:HD13	1.91	0.53
1:J:301:LEU:HD11	1:J:342:TYR:CD2	2.44	0.53
1:O:301:LEU:HD11	1:O:342:TYR:CD2	2.44	0.53
1:O:463:ARG:HG2	1:O:463:ARG:NH1	2.16	0.53
1:S:155:ILE:HG21	1:S:443:PHE:CE1	2.43	0.53
1:T:147:VAL:HG21	1:T:155:ILE:CD1	2.35	0.53
1:W:87:ASN:OD1	1:W:118:ARG:NH1	2.37	0.53
1:A:35:LEU:HD21	1:L:5:ASN:CG	2.31	0.53
1:C:93:GLU:HG3	1:N:62:GLN:HB2	1.90	0.53
1:E:31:LEU:HD23	1:E:469:TYR:CE1	2.40	0.53
1:E:91:VAL:HG12	1:E:422:ILE:HD13	1.91	0.53
1:F:65:ARG:NH2	1:K:36:ARG:HH22	2.05	0.53
1:F:155:ILE:HG21	1:F:443:PHE:CE1	2.43	0.53
1:K:360:TYR:CE1	1:K:386:ILE:CG1	2.82	0.53
1:N:81:LEU:HD11	1:N:432:LEU:HD21	1.85	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:301:LEU:HD11	1:Q:342:TYR:CD2	2.44	0.53
1:Q:463:ARG:HG2	1:Q:463:ARG:NH1	2.16	0.53
1:R:463:ARG:HH11	1:R:463:ARG:CG	2.14	0.53
1:T:31:LEU:HD23	1:T:469:TYR:CE1	2.40	0.53
1:U:66:ASN:O	1:U:69:ASP:HB3	2.07	0.53
1:W:301:LEU:HD11	1:W:342:TYR:CD2	2.44	0.53
1:A:350:THR:OG1	1:A:351:GLY:N	2.39	0.53
1:B:91:VAL:HG12	1:B:422:ILE:HD13	1.91	0.53
1:B:364:ASP:CB	1:B:402:LYS:NZ	2.62	0.53
1:B:419:LEU:CD1	1:M:151:ASP:HA	2.38	0.53
1:C:155:ILE:HG21	1:C:443:PHE:CE1	2.43	0.53
1:G:65:ARG:NH2	1:L:36:ARG:HH22	2.07	0.53
1:G:364:ASP:HB2	1:G:402:LYS:NZ	2.24	0.53
1:H:306:VAL:CG2	1:H:342:TYR:OH	2.56	0.53
1:K:306:VAL:CG2	1:K:342:TYR:OH	2.56	0.53
1:M:155:ILE:HG21	1:M:443:PHE:CE1	2.43	0.53
1:N:21:GLN:OE1	1:N:483:GLN:NE2	2.40	0.53
1:O:301:LEU:HD21	1:O:337:ALA:CB	2.25	0.53
1:P:301:LEU:HD11	1:P:342:TYR:CD2	2.44	0.53
1:Q:81:LEU:HD11	1:Q:432:LEU:HD21	1.85	0.53
1:Q:91:VAL:HG12	1:Q:422:ILE:HD13	1.91	0.53
1:Q:364:ASP:HB2	1:Q:402:LYS:NZ	2.24	0.53
1:R:301:LEU:HD21	1:R:337:ALA:CB	2.25	0.53
1:T:301:LEU:HD11	1:T:342:TYR:CD2	2.44	0.53
1:W:91:VAL:HG12	1:W:422:ILE:HD13	1.91	0.53
1:B:463:ARG:HH11	1:B:463:ARG:CG	2.14	0.53
1:C:180:VAL:HG23	1:C:321:TYR:HD1	1.61	0.53
1:C:301:LEU:HD11	1:C:342:TYR:CD2	2.44	0.53
1:D:65:ARG:NH2	1:I:36:ARG:HH22	2.07	0.53
1:D:143:LEU:O	1:D:156:ASP:HA	2.09	0.53
1:D:301:LEU:HD11	1:D:342:TYR:CD2	2.44	0.53
1:E:419:LEU:CG	1:P:151:ASP:OD1	2.53	0.53
1:F:306:VAL:CG2	1:F:342:TYR:OH	2.56	0.53
1:G:155:ILE:HG21	1:G:443:PHE:CE1	2.43	0.53
1:H:29:GLU:OE2	1:M:12:LEU:HD13	2.08	0.53
1:I:31:LEU:HD23	1:I:469:TYR:CE1	2.40	0.53
1:J:468:ASP:CB	1:U:2:GLN:H	2.20	0.53
1:K:143:LEU:O	1:K:156:ASP:HA	2.09	0.53
1:K:301:LEU:HD11	1:K:342:TYR:CD2	2.44	0.53
1:L:91:VAL:HG12	1:L:422:ILE:HD13	1.91	0.53
1:M:91:VAL:HG12	1:M:422:ILE:HD13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:91:VAL:HG12	1:O:422:ILE:HD13	1.91	0.53
1:O:155:ILE:HG21	1:O:443:PHE:CE1	2.43	0.53
1:O:401:PHE:CE1	1:O:407:LEU:HD11	2.36	0.53
1:P:360:TYR:CE1	1:P:386:ILE:CG1	2.82	0.53
1:R:31:LEU:HD23	1:R:469:TYR:CE1	2.40	0.53
1:R:91:VAL:HG12	1:R:422:ILE:HD13	1.91	0.53
1:U:74:ALA:HB1	1:U:440:GLN:HE21	1.71	0.53
1:U:143:LEU:O	1:U:156:ASP:HA	2.09	0.53
1:U:301:LEU:HD11	1:U:342:TYR:CD2	2.44	0.53
1:A:81:LEU:HD11	1:A:432:LEU:HD21	1.85	0.53
1:A:501:LEU:HB3	1:A:505:ARG:HH11	1.54	0.53
1:B:306:VAL:CG2	1:B:342:TYR:OH	2.56	0.53
1:D:91:VAL:HG12	1:D:422:ILE:HD13	1.91	0.53
1:F:306:VAL:CG1	1:F:307:ASP:H	1.94	0.53
1:F:401:PHE:CE1	1:F:407:LEU:HD11	2.36	0.53
1:I:301:LEU:HD11	1:I:342:TYR:CD2	2.44	0.53
1:K:65:ARG:NH2	1:P:36:ARG:HH22	2.06	0.53
1:K:364:ASP:HB2	1:K:402:LYS:NZ	2.24	0.53
1:P:155:ILE:HG21	1:P:443:PHE:CE1	2.43	0.53
1:P:501:LEU:HB3	1:P:505:ARG:HH11	1.54	0.53
1:Q:143:LEU:O	1:Q:156:ASP:HA	2.09	0.53
1:R:364:ASP:HB2	1:R:402:LYS:NZ	2.24	0.53
1:S:306:VAL:CG2	1:S:342:TYR:OH	2.56	0.53
1:T:91:VAL:HG12	1:T:422:ILE:HD13	1.91	0.53
1:U:91:VAL:HG12	1:U:422:ILE:HD13	1.91	0.53
1:W:143:LEU:O	1:W:156:ASP:HA	2.09	0.53
1:A:91:VAL:HG12	1:A:422:ILE:HD13	1.91	0.53
1:A:143:LEU:O	1:A:156:ASP:HA	2.09	0.53
1:B:31:LEU:HD23	1:B:469:TYR:CE1	2.40	0.53
1:E:306:VAL:CG2	1:E:342:TYR:OH	2.56	0.53
1:F:301:LEU:HD11	1:F:342:TYR:CD2	2.44	0.53
1:I:91:VAL:HG12	1:I:422:ILE:HD13	1.91	0.53
1:O:31:LEU:HD23	1:O:469:TYR:CE1	2.40	0.53
1:P:31:LEU:HD23	1:P:469:TYR:CE1	2.40	0.53
1:P:91:VAL:HG12	1:P:422:ILE:HD13	1.91	0.53
1:P:143:LEU:O	1:P:156:ASP:HA	2.09	0.53
1:P:306:VAL:CG2	1:P:342:TYR:OH	2.56	0.53
1:U:401:PHE:CE1	1:U:407:LEU:HD11	2.36	0.53
1:A:93:GLU:HG3	1:L:62:GLN:HB2	1.90	0.53
1:D:147:VAL:HG21	1:D:155:ILE:CD1	2.35	0.53
1:F:81:LEU:HD11	1:F:432:LEU:HD21	1.85	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:364:ASP:HB2	1:J:402:LYS:NZ	2.24	0.53
1:K:91:VAL:HG12	1:K:422:ILE:HD13	1.91	0.53
1:L:301:LEU:HD11	1:L:342:TYR:CD2	2.44	0.53
1:N:143:LEU:O	1:N:156:ASP:HA	2.09	0.53
1:N:301:LEU:HD11	1:N:342:TYR:CD2	2.44	0.53
1:O:143:LEU:O	1:O:156:ASP:HA	2.09	0.53
1:P:147:VAL:HG21	1:P:155:ILE:CD1	2.35	0.53
1:S:91:VAL:HG12	1:S:422:ILE:HD13	1.91	0.53
1:T:4:ILE:HG12	1:T:501:LEU:CD1	2.03	0.53
1:A:463:ARG:HG2	1:A:463:ARG:NH1	2.16	0.53
1:C:306:VAL:CG2	1:C:342:TYR:OH	2.56	0.53
1:E:143:LEU:O	1:E:156:ASP:HA	2.09	0.53
1:E:487:THR:HG21	1:J:500:VAL:HA	1.91	0.53
1:F:91:VAL:HG12	1:F:422:ILE:HD13	1.91	0.53
1:F:97:GLN:OE1	1:W:45:ALA:CB	2.57	0.53
1:J:143:LEU:O	1:J:156:ASP:HA	2.09	0.53
1:L:143:LEU:O	1:L:156:ASP:HA	2.09	0.53
1:N:358:THR:HG23	1:N:360:TYR:CD2	2.43	0.53
1:R:301:LEU:HD11	1:R:342:TYR:CD2	2.44	0.53
1:S:358:THR:HG23	1:S:360:TYR:CD2	2.43	0.53
1:A:364:ASP:HB2	1:A:402:LYS:NZ	2.24	0.53
1:B:147:VAL:HG21	1:B:155:ILE:CD1	2.35	0.53
1:B:343:ALA:HB3	1:B:372:ASN:CB	2.40	0.53
1:C:91:VAL:HG12	1:C:422:ILE:HD13	1.91	0.53
1:H:91:VAL:HG12	1:H:422:ILE:HD13	1.91	0.53
1:K:178:TYR:HB2	1:K:378:ASP:O	2.09	0.53
1:M:401:PHE:CE1	1:M:407:LEU:HD11	2.36	0.53
1:N:91:VAL:HG12	1:N:422:ILE:HD13	1.91	0.53
1:N:306:VAL:CG2	1:N:342:TYR:OH	2.56	0.53
1:S:21:GLN:OE1	1:S:483:GLN:NE2	2.40	0.53
1:U:306:VAL:CG2	1:U:342:TYR:OH	2.56	0.53
1:A:301:LEU:HD11	1:A:342:TYR:CD2	2.44	0.52
1:A:306:VAL:CG2	1:A:342:TYR:OH	2.56	0.52
1:E:97:GLN:OE1	1:U:45:ALA:CB	2.57	0.52
1:G:35:LEU:HD21	1:R:5:ASN:CG	2.32	0.52
1:H:37:ILE:HA	1:H:41:LYS:HB2	1.91	0.52
1:H:65:ARG:NH2	1:M:36:ARG:HH22	2.07	0.52
1:H:306:VAL:CG1	1:H:307:ASP:H	1.94	0.52
1:I:144:THR:HG22	1:I:156:ASP:OD2	2.10	0.52
1:J:314:ALA:HB1	1:J:336:LYS:O	2.02	0.52
1:M:176:LYS:O	1:M:377:VAL:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:463:ARG:HH11	1:M:463:ARG:CG	2.14	0.52
1:N:176:LYS:O	1:N:377:VAL:HG12	2.10	0.52
1:O:37:ILE:HA	1:O:41:LYS:HB2	1.92	0.52
1:R:143:LEU:O	1:R:156:ASP:HA	2.09	0.52
1:S:37:ILE:HA	1:S:41:LYS:HB2	1.92	0.52
1:S:301:LEU:HD11	1:S:342:TYR:CD2	2.44	0.52
1:T:143:LEU:O	1:T:156:ASP:HA	2.09	0.52
1:T:343:ALA:HB3	1:T:372:ASN:CB	2.40	0.52
1:W:178:TYR:HB2	1:W:378:ASP:O	2.09	0.52
1:C:92:ARG:NH2	1:C:423:ASP:OD1	2.43	0.52
1:G:143:LEU:O	1:G:156:ASP:HA	2.09	0.52
1:G:178:TYR:HB2	1:G:378:ASP:O	2.09	0.52
1:H:144:THR:HG22	1:H:156:ASP:OD2	2.10	0.52
1:L:45:ALA:HA	1:L:49:ILE:CD1	2.39	0.52
1:M:37:ILE:HA	1:M:41:LYS:HB2	1.91	0.52
1:N:37:ILE:HA	1:N:41:LYS:HB2	1.92	0.52
1:S:87:ASN:OD1	1:S:118:ARG:NH1	2.37	0.52
1:S:343:ALA:HB3	1:S:372:ASN:CB	2.40	0.52
1:S:463:ARG:HG2	1:S:463:ARG:NH1	2.16	0.52
1:U:37:ILE:HA	1:U:41:LYS:HB2	1.92	0.52
1:A:343:ALA:HB3	1:A:372:ASN:CB	2.40	0.52
1:B:301:LEU:HD11	1:B:342:TYR:CD2	2.44	0.52
1:C:37:ILE:HA	1:C:41:LYS:HB2	1.92	0.52
1:C:97:GLN:OE1	1:S:45:ALA:CB	2.57	0.52
1:C:176:LYS:O	1:C:377:VAL:HG12	2.10	0.52
1:D:306:VAL:CG2	1:D:342:TYR:OH	2.56	0.52
1:E:21:GLN:OE1	1:E:483:GLN:NE2	2.40	0.52
1:F:35:LEU:HD21	1:Q:5:ASN:CG	2.32	0.52
1:F:463:ARG:HG2	1:F:463:ARG:NH1	2.16	0.52
1:I:37:ILE:HA	1:I:41:LYS:HB2	1.92	0.52
1:I:178:TYR:HB2	1:I:378:ASP:O	2.09	0.52
1:I:306:VAL:CG2	1:I:342:TYR:OH	2.56	0.52
1:I:343:ALA:HB3	1:I:372:ASN:CB	2.40	0.52
1:J:37:ILE:HA	1:J:41:LYS:HB2	1.92	0.52
1:L:176:LYS:O	1:L:377:VAL:HG12	2.09	0.52
1:L:343:ALA:HB3	1:L:372:ASN:CB	2.40	0.52
1:O:358:THR:HG23	1:O:360:TYR:CD2	2.43	0.52
1:Q:180:VAL:HG23	1:Q:321:TYR:HD1	1.61	0.52
1:R:178:TYR:HB2	1:R:378:ASP:O	2.09	0.52
1:S:92:ARG:NH2	1:S:423:ASP:OD1	2.43	0.52
1:U:364:ASP:HB2	1:U:402:LYS:NZ	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:145:ILE:HG13	1:A:443:PHE:CZ	2.45	0.52
1:B:176:LYS:O	1:B:377:VAL:HG12	2.09	0.52
1:D:37:ILE:HA	1:D:41:LYS:HB2	1.92	0.52
1:D:178:TYR:HB2	1:D:378:ASP:O	2.09	0.52
1:E:359:SER:HA	1:E:369:THR:HG22	1.92	0.52
1:F:143:LEU:O	1:F:156:ASP:HA	2.09	0.52
1:G:301:LEU:HD11	1:G:342:TYR:CD2	2.44	0.52
1:H:143:LEU:O	1:H:156:ASP:HA	2.09	0.52
1:H:301:LEU:HD11	1:H:342:TYR:CD2	2.44	0.52
1:H:364:ASP:HB2	1:H:402:LYS:NZ	2.24	0.52
1:J:343:ALA:HB3	1:J:372:ASN:CB	2.40	0.52
1:J:359:SER:HA	1:J:369:THR:HG22	1.92	0.52
1:K:31:LEU:HD23	1:K:469:TYR:CE1	2.39	0.52
1:L:81:LEU:HD11	1:L:432:LEU:HD21	1.85	0.52
1:L:145:ILE:HG13	1:L:443:PHE:CZ	2.45	0.52
1:M:343:ALA:HB3	1:M:372:ASN:CB	2.40	0.52
1:N:92:ARG:NH2	1:N:423:ASP:OD1	2.43	0.52
1:O:343:ALA:HB3	1:O:372:ASN:CB	2.40	0.52
1:P:37:ILE:HA	1:P:41:LYS:HB2	1.92	0.52
1:R:463:ARG:HG2	1:R:463:ARG:NH1	2.16	0.52
1:T:37:ILE:HA	1:T:41:LYS:HB2	1.92	0.52
1:T:178:TYR:HB2	1:T:378:ASP:O	2.09	0.52
1:B:37:ILE:HA	1:B:41:LYS:HB2	1.91	0.52
1:B:301:LEU:HD21	1:B:337:ALA:CB	2.24	0.52
1:C:145:ILE:HG13	1:C:443:PHE:CZ	2.45	0.52
1:D:359:SER:HA	1:D:369:THR:HG22	1.92	0.52
1:E:37:ILE:HA	1:E:41:LYS:HB2	1.92	0.52
1:E:176:LYS:O	1:E:377:VAL:HG12	2.10	0.52
1:F:145:ILE:HG13	1:F:443:PHE:CZ	2.45	0.52
1:F:176:LYS:O	1:F:377:VAL:HG12	2.09	0.52
1:F:178:TYR:HB2	1:F:378:ASP:O	2.09	0.52
1:G:144:THR:HG22	1:G:156:ASP:OD2	2.10	0.52
1:G:147:VAL:HG21	1:G:155:ILE:CD1	2.35	0.52
1:H:145:ILE:HG13	1:H:443:PHE:CZ	2.45	0.52
1:H:466:ASP:OD1	1:S:5:ASN:HB3	2.10	0.52
1:I:364:ASP:HB2	1:I:402:LYS:NZ	2.24	0.52
1:I:401:PHE:CE1	1:I:407:LEU:HD11	2.36	0.52
1:J:176:LYS:O	1:J:377:VAL:HG12	2.09	0.52
1:J:306:VAL:CG2	1:J:342:TYR:OH	2.56	0.52
1:K:37:ILE:HA	1:K:41:LYS:HB2	1.91	0.52
1:L:178:TYR:HB2	1:L:378:ASP:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:301:LEU:HD11	1:M:342:TYR:CD2	2.44	0.52
1:N:178:TYR:HB2	1:N:378:ASP:O	2.09	0.52
1:O:178:TYR:HB2	1:O:378:ASP:O	2.09	0.52
1:P:359:SER:HA	1:P:369:THR:HG22	1.92	0.52
1:R:37:ILE:HA	1:R:41:LYS:HB2	1.92	0.52
1:T:144:THR:HG22	1:T:156:ASP:OD2	2.10	0.52
1:U:176:LYS:O	1:U:377:VAL:HG12	2.09	0.52
1:U:359:SER:HA	1:U:369:THR:HG22	1.92	0.52
1:W:31:LEU:HD23	1:W:469:TYR:CE1	2.40	0.52
1:W:364:ASP:HB2	1:W:402:LYS:NZ	2.24	0.52
1:A:21:GLN:OE1	1:A:483:GLN:NE2	2.40	0.52
1:A:45:ALA:HA	1:A:49:ILE:CD1	2.39	0.52
1:B:487:THR:HG21	1:G:500:VAL:HA	1.92	0.52
1:C:143:LEU:O	1:C:156:ASP:HA	2.09	0.52
1:C:178:TYR:HB2	1:C:378:ASP:O	2.09	0.52
1:D:176:LYS:O	1:D:377:VAL:HG12	2.09	0.52
1:G:145:ILE:HG13	1:G:443:PHE:CZ	2.45	0.52
1:G:306:VAL:CG1	1:G:307:ASP:H	1.94	0.52
1:H:35:LEU:CD2	1:S:5:ASN:HD22	2.16	0.52
1:H:343:ALA:HB3	1:H:372:ASN:CB	2.40	0.52
1:J:144:THR:HG22	1:J:156:ASP:OD2	2.10	0.52
1:N:87:ASN:OD1	1:N:118:ARG:NH1	2.37	0.52
1:R:30:ARG:NE	1:R:41:LYS:HD2	2.25	0.52
1:R:343:ALA:HB3	1:R:372:ASN:CB	2.40	0.52
1:S:145:ILE:HG13	1:S:443:PHE:CZ	2.45	0.52
1:S:364:ASP:HB2	1:S:402:LYS:NZ	2.24	0.52
1:W:37:ILE:HA	1:W:41:LYS:HB2	1.91	0.52
1:W:81:LEU:HD11	1:W:432:LEU:HD21	1.85	0.52
1:W:145:ILE:HG13	1:W:443:PHE:CZ	2.45	0.52
1:A:178:TYR:HB2	1:A:378:ASP:O	2.09	0.52
1:A:463:ARG:HH11	1:A:463:ARG:CG	2.14	0.52
1:B:145:ILE:HG13	1:B:443:PHE:CZ	2.45	0.52
1:C:343:ALA:HB3	1:C:372:ASN:CB	2.40	0.52
1:E:49:ILE:CD1	1:E:49:ILE:N	2.73	0.52
1:G:176:LYS:O	1:G:377:VAL:HG12	2.09	0.52
1:H:176:LYS:O	1:H:377:VAL:HG12	2.09	0.52
1:I:359:SER:HA	1:I:369:THR:HG22	1.92	0.52
1:K:343:ALA:HB3	1:K:372:ASN:CB	2.40	0.52
1:M:145:ILE:HG13	1:M:443:PHE:CZ	2.45	0.52
1:N:145:ILE:HG13	1:N:443:PHE:CZ	2.45	0.52
1:P:343:ALA:HB3	1:P:372:ASN:CB	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:487:THR:HG21	1:U:500:VAL:HA	1.91	0.52
1:T:176:LYS:O	1:T:377:VAL:HG12	2.10	0.52
1:W:49:ILE:CD1	1:W:49:ILE:N	2.73	0.52
1:A:30:ARG:NE	1:A:41:LYS:HD2	2.25	0.52
1:D:343:ALA:HB3	1:D:372:ASN:CB	2.40	0.52
1:G:37:ILE:HA	1:G:41:LYS:HB2	1.92	0.52
1:G:93:GLU:HG3	1:R:62:GLN:HB2	1.92	0.52
1:K:81:LEU:HD11	1:K:432:LEU:HD21	1.85	0.52
1:K:359:SER:HA	1:K:369:THR:HG22	1.92	0.52
1:L:37:ILE:HA	1:L:41:LYS:HB2	1.91	0.52
1:M:144:THR:HG22	1:M:156:ASP:OD2	2.10	0.52
1:O:359:SER:HA	1:O:369:THR:HG22	1.92	0.52
1:P:176:LYS:O	1:P:377:VAL:HG12	2.10	0.52
1:Q:37:ILE:HA	1:Q:41:LYS:HB2	1.92	0.52
1:Q:49:ILE:N	1:Q:49:ILE:CD1	2.73	0.52
1:Q:147:VAL:HG21	1:Q:155:ILE:CD1	2.35	0.52
1:Q:178:TYR:HB2	1:Q:378:ASP:O	2.09	0.52
1:Q:343:ALA:HB3	1:Q:372:ASN:CB	2.39	0.52
1:R:144:THR:HG22	1:R:156:ASP:OD2	2.10	0.52
1:S:45:ALA:HA	1:S:49:ILE:CD1	2.39	0.52
1:S:144:THR:HG22	1:S:156:ASP:OD2	2.10	0.52
1:B:143:LEU:O	1:B:156:ASP:HA	2.09	0.52
1:D:30:ARG:NE	1:D:41:LYS:HD2	2.25	0.52
1:D:419:LEU:CD1	1:O:151:ASP:HA	2.40	0.52
1:F:463:ARG:NH1	1:F:463:ARG:CG	2.73	0.52
1:G:343:ALA:HB3	1:G:372:ASN:CB	2.40	0.52
1:I:92:ARG:NH2	1:I:423:ASP:OD1	2.43	0.52
1:I:301:LEU:HD21	1:I:337:ALA:CB	2.25	0.52
1:I:487:THR:HG21	1:N:500:VAL:HA	1.92	0.52
1:J:21:GLN:OE1	1:J:483:GLN:NE2	2.40	0.52
1:M:31:LEU:HD23	1:M:469:TYR:CE1	2.40	0.52
1:M:143:LEU:O	1:M:156:ASP:HA	2.09	0.52
1:N:401:PHE:CE1	1:N:407:LEU:HD11	2.36	0.52
1:O:145:ILE:HG13	1:O:443:PHE:CZ	2.45	0.52
1:Q:144:THR:HG22	1:Q:156:ASP:OD2	2.10	0.52
1:Q:145:ILE:HG13	1:Q:443:PHE:CZ	2.45	0.52
1:R:145:ILE:HG13	1:R:443:PHE:CZ	2.45	0.52
1:T:30:ARG:NE	1:T:41:LYS:HD2	2.25	0.52
1:T:358:THR:HG23	1:T:360:TYR:CD2	2.43	0.52
1:T:359:SER:HA	1:T:369:THR:HG22	1.92	0.52
1:D:144:THR:HG22	1:D:156:ASP:OD2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:37:ILE:HA	1:F:41:LYS:HB2	1.92	0.52
1:F:144:THR:HG22	1:F:156:ASP:OD2	2.10	0.52
1:F:463:ARG:HH11	1:F:463:ARG:CG	2.14	0.52
1:F:487:THR:HG21	1:K:500:VAL:HA	1.92	0.52
1:G:419:LEU:CD1	1:R:151:ASP:HA	2.40	0.52
1:I:143:LEU:O	1:I:156:ASP:HA	2.09	0.52
1:J:49:ILE:CD1	1:J:49:ILE:N	2.73	0.52
1:J:145:ILE:HG13	1:J:443:PHE:CZ	2.45	0.52
1:J:178:TYR:HB2	1:J:378:ASP:O	2.09	0.52
1:J:419:LEU:CG	1:U:151:ASP:OD1	2.55	0.52
1:K:35:LEU:CD2	1:W:5:ASN:HD22	2.18	0.52
1:L:364:ASP:HB2	1:L:402:LYS:NZ	2.24	0.52
1:L:463:ARG:HG2	1:L:463:ARG:NH1	2.16	0.52
1:N:144:THR:HG22	1:N:156:ASP:OD2	2.10	0.52
1:N:359:SER:HA	1:N:369:THR:HG22	1.92	0.52
1:O:176:LYS:O	1:O:377:VAL:HG12	2.09	0.52
1:S:178:TYR:HB2	1:S:378:ASP:O	2.09	0.52
1:T:145:ILE:HG13	1:T:443:PHE:CZ	2.45	0.52
1:T:364:ASP:HB2	1:T:402:LYS:NZ	2.24	0.52
1:U:30:ARG:NE	1:U:41:LYS:HD2	2.25	0.52
1:U:144:THR:HG22	1:U:156:ASP:OD2	2.10	0.52
1:U:358:THR:HG23	1:U:360:TYR:CD2	2.43	0.52
1:A:176:LYS:O	1:A:377:VAL:HG12	2.10	0.51
1:C:31:LEU:HD23	1:C:469:TYR:CE1	2.40	0.51
1:E:419:LEU:CD1	1:P:151:ASP:HA	2.40	0.51
1:F:359:SER:HA	1:F:369:THR:HG22	1.92	0.51
1:H:45:ALA:HA	1:H:49:ILE:CD1	2.39	0.51
1:H:178:TYR:HB2	1:H:378:ASP:O	2.09	0.51
1:K:145:ILE:HG13	1:K:443:PHE:CZ	2.45	0.51
1:L:49:ILE:CD1	1:L:49:ILE:N	2.73	0.51
1:Q:176:LYS:O	1:Q:377:VAL:HG12	2.10	0.51
1:A:37:ILE:HA	1:A:41:LYS:HB2	1.92	0.51
1:B:30:ARG:NE	1:B:41:LYS:HD2	2.25	0.51
1:B:49:ILE:CD1	1:B:49:ILE:N	2.73	0.51
1:B:364:ASP:HB2	1:B:402:LYS:NZ	2.24	0.51
1:E:343:ALA:HB3	1:E:372:ASN:CB	2.40	0.51
1:J:180:VAL:HG23	1:J:321:TYR:HD1	1.61	0.51
1:L:30:ARG:NE	1:L:41:LYS:HD2	2.25	0.51
1:O:144:THR:HG22	1:O:156:ASP:OD2	2.10	0.51
1:P:81:LEU:HD13	1:P:433:ARG:HG2	1.92	0.51
1:P:144:THR:HG22	1:P:156:ASP:OD2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:176:LYS:O	1:S:377:VAL:HG12	2.09	0.51
1:U:343:ALA:HB3	1:U:372:ASN:CB	2.40	0.51
1:W:45:ALA:HA	1:W:49:ILE:CD1	2.39	0.51
1:W:359:SER:HA	1:W:369:THR:HG22	1.92	0.51
1:A:418:PRO:O	1:A:422:ILE:HG13	2.11	0.51
1:C:419:LEU:CD1	1:N:151:ASP:HA	2.39	0.51
1:E:364:ASP:HB2	1:E:402:LYS:NZ	2.24	0.51
1:E:401:PHE:CE1	1:E:407:LEU:HD11	2.36	0.51
1:F:21:GLN:OE1	1:F:483:GLN:NE2	2.40	0.51
1:F:49:ILE:CD1	1:F:49:ILE:N	2.73	0.51
1:H:30:ARG:NE	1:H:41:LYS:HD2	2.25	0.51
1:I:81:LEU:HD13	1:I:433:ARG:HG2	1.92	0.51
1:K:176:LYS:O	1:K:377:VAL:HG12	2.10	0.51
1:L:418:PRO:O	1:L:422:ILE:HG13	2.11	0.51
1:O:81:LEU:HD13	1:O:433:ARG:HG2	1.93	0.51
1:O:306:VAL:CG2	1:O:342:TYR:OH	2.56	0.51
1:S:49:ILE:CD1	1:S:49:ILE:N	2.73	0.51
1:U:178:TYR:HB2	1:U:378:ASP:O	2.09	0.51
1:W:343:ALA:HB3	1:W:372:ASN:CB	2.40	0.51
1:C:49:ILE:CD1	1:C:49:ILE:N	2.73	0.51
1:C:359:SER:HA	1:C:369:THR:HG22	1.92	0.51
1:D:173:ASN:CG	1:D:411:ALA:HB3	2.24	0.51
1:F:31:LEU:HD23	1:F:469:TYR:CE1	2.40	0.51
1:F:35:LEU:CD2	1:Q:5:ASN:HD22	2.21	0.51
1:G:487:THR:HG21	1:L:500:VAL:HA	1.93	0.51
1:H:49:ILE:CD1	1:H:49:ILE:N	2.73	0.51
1:I:93:GLU:HG3	1:T:62:GLN:HB2	1.91	0.51
1:O:49:ILE:CD1	1:O:49:ILE:N	2.73	0.51
1:T:49:ILE:CD1	1:T:49:ILE:N	2.73	0.51
1:T:463:ARG:NH1	1:T:463:ARG:CG	2.73	0.51
1:C:30:ARG:NE	1:C:41:LYS:HD2	2.25	0.51
1:C:401:PHE:CE1	1:C:407:LEU:HD11	2.36	0.51
1:C:463:ARG:NH1	1:C:463:ARG:CG	2.73	0.51
1:E:35:LEU:HD21	1:P:5:ASN:HD21	1.70	0.51
1:E:145:ILE:HG13	1:E:443:PHE:CZ	2.45	0.51
1:E:178:TYR:HB2	1:E:378:ASP:O	2.09	0.51
1:K:463:ARG:NH1	1:K:463:ARG:CG	2.73	0.51
1:N:49:ILE:CD1	1:N:49:ILE:N	2.73	0.51
1:O:21:GLN:OE1	1:O:483:GLN:NE2	2.40	0.51
1:P:49:ILE:N	1:P:49:ILE:CD1	2.73	0.51
1:P:401:PHE:CE1	1:P:407:LEU:HD11	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:180:VAL:CG2	1:R:321:TYR:CE1	2.93	0.51
1:S:31:LEU:HD23	1:S:469:TYR:CE1	2.39	0.51
1:S:143:LEU:O	1:S:156:ASP:HA	2.09	0.51
1:S:301:LEU:HD21	1:S:337:ALA:CB	2.25	0.51
1:T:45:ALA:HA	1:T:49:ILE:CD1	2.39	0.51
1:T:306:VAL:CG2	1:T:342:TYR:OH	2.56	0.51
1:U:4:ILE:CG1	1:U:501:LEU:HD12	2.02	0.51
1:W:463:ARG:HG2	1:W:463:ARG:NH1	2.16	0.51
1:A:107:ASP:OD2	1:Q:49:ILE:CG1	2.55	0.51
1:A:359:SER:HA	1:A:369:THR:HG22	1.92	0.51
1:D:145:ILE:HG13	1:D:443:PHE:CZ	2.45	0.51
1:E:30:ARG:NE	1:E:41:LYS:HD2	2.25	0.51
1:F:343:ALA:HB3	1:F:372:ASN:CB	2.40	0.51
1:H:463:ARG:HH11	1:H:463:ARG:CG	2.14	0.51
1:K:49:ILE:CD1	1:K:49:ILE:N	2.73	0.51
1:K:466:ASP:OD1	1:W:5:ASN:HB3	2.11	0.51
1:L:144:THR:HG22	1:L:156:ASP:OD2	2.10	0.51
1:L:147:VAL:HG21	1:L:155:ILE:CD1	2.35	0.51
1:M:178:TYR:HB2	1:M:378:ASP:O	2.09	0.51
1:M:480:GLN:OE1	1:R:492:GLN:NE2	2.44	0.51
1:N:31:LEU:HD23	1:N:469:TYR:CE1	2.40	0.51
1:N:343:ALA:HB3	1:N:372:ASN:CB	2.40	0.51
1:Q:186:THR:CB	1:Q:289:THR:C	2.81	0.51
1:T:92:ARG:NH2	1:T:423:ASP:OD1	2.43	0.51
1:A:49:ILE:N	1:A:49:ILE:CD1	2.73	0.51
1:B:144:THR:HG22	1:B:156:ASP:OD2	2.10	0.51
1:B:178:TYR:HB2	1:B:378:ASP:O	2.09	0.51
1:D:92:ARG:NH2	1:D:423:ASP:OD1	2.43	0.51
1:E:418:PRO:O	1:E:422:ILE:HG13	2.11	0.51
1:G:49:ILE:N	1:G:49:ILE:CD1	2.73	0.51
1:H:359:SER:HA	1:H:369:THR:HG22	1.92	0.51
1:I:45:ALA:HA	1:I:49:ILE:CD1	2.39	0.51
1:I:145:ILE:HG13	1:I:443:PHE:CZ	2.45	0.51
1:I:176:LYS:O	1:I:377:VAL:HG12	2.10	0.51
1:K:144:THR:HG22	1:K:156:ASP:OD2	2.10	0.51
1:M:49:ILE:N	1:M:49:ILE:CD1	2.73	0.51
1:M:180:VAL:CG2	1:M:321:TYR:CE1	2.93	0.51
1:O:30:ARG:NE	1:O:41:LYS:HD2	2.25	0.51
1:P:145:ILE:HG13	1:P:443:PHE:CZ	2.45	0.51
1:P:178:TYR:HB2	1:P:378:ASP:O	2.09	0.51
1:Q:359:SER:HA	1:Q:369:THR:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:487:THR:HG21	1:W:500:VAL:HA	1.93	0.51
1:S:359:SER:HA	1:S:369:THR:HG22	1.92	0.51
1:U:145:ILE:HG13	1:U:443:PHE:CZ	2.45	0.51
1:W:176:LYS:O	1:W:377:VAL:HG12	2.10	0.51
1:A:144:THR:HG22	1:A:156:ASP:OD2	2.10	0.51
1:A:145:ILE:O	1:A:154:THR:CA	2.39	0.51
1:B:359:SER:HA	1:B:369:THR:HG22	1.92	0.51
1:B:418:PRO:O	1:B:422:ILE:HG13	2.11	0.51
1:C:144:THR:HG22	1:C:156:ASP:OD2	2.10	0.51
1:D:35:LEU:HD21	1:O:5:ASN:HD21	1.68	0.51
1:D:93:GLU:HG3	1:O:62:GLN:HB2	1.92	0.51
1:D:97:GLN:OE1	1:T:45:ALA:CB	2.59	0.51
1:D:364:ASP:HB2	1:D:402:LYS:NZ	2.24	0.51
1:E:81:LEU:HD13	1:E:433:ARG:HG2	1.93	0.51
1:F:418:PRO:O	1:F:422:ILE:HG13	2.11	0.51
1:J:81:LEU:HD13	1:J:433:ARG:HG2	1.93	0.51
1:K:30:ARG:NE	1:K:41:LYS:HD2	2.25	0.51
1:K:45:ALA:HA	1:K:49:ILE:CD1	2.39	0.51
1:N:30:ARG:NE	1:N:41:LYS:HD2	2.25	0.51
1:O:463:ARG:NH1	1:O:463:ARG:CG	2.73	0.51
1:P:418:PRO:O	1:P:422:ILE:HG13	2.11	0.51
1:Q:418:PRO:O	1:Q:422:ILE:HG13	2.10	0.51
1:R:45:ALA:HA	1:R:49:ILE:CD1	2.39	0.51
1:R:176:LYS:O	1:R:377:VAL:HG12	2.10	0.51
1:S:186:THR:CB	1:S:289:THR:C	2.82	0.51
1:U:49:ILE:CD1	1:U:49:ILE:N	2.73	0.51
1:W:418:PRO:O	1:W:422:ILE:HG13	2.11	0.51
1:F:419:LEU:CD1	1:Q:151:ASP:HA	2.40	0.51
1:H:31:LEU:HD23	1:H:469:TYR:CE1	2.40	0.51
1:I:418:PRO:O	1:I:422:ILE:HG13	2.11	0.51
1:L:17:LEU:HD11	1:L:487:THR:OG1	2.11	0.51
1:U:501:LEU:HB3	1:U:505:ARG:HH11	1.54	0.51
1:W:81:LEU:HD13	1:W:433:ARG:HG2	1.92	0.51
1:A:480:GLN:OE1	1:F:492:GLN:NE2	2.44	0.51
1:C:418:PRO:O	1:C:422:ILE:HG13	2.11	0.51
1:D:418:PRO:O	1:D:422:ILE:HG13	2.11	0.51
1:E:112:GLN:HG2	1:E:175:GLN:NE2	2.26	0.51
1:G:17:LEU:HD11	1:G:487:THR:OG1	2.11	0.51
1:H:81:LEU:HD13	1:H:433:ARG:HG2	1.92	0.51
1:H:180:VAL:CG2	1:H:321:TYR:CE1	2.93	0.51
1:I:466:ASP:OD1	1:T:5:ASN:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:359:SER:HA	1:L:369:THR:HG22	1.92	0.51
1:M:17:LEU:HD11	1:M:487:THR:OG1	2.11	0.51
1:M:418:PRO:O	1:M:422:ILE:HG13	2.11	0.51
1:N:81:LEU:HD13	1:N:433:ARG:HG2	1.92	0.51
1:O:180:VAL:CG2	1:O:321:TYR:CE1	2.93	0.51
1:Q:31:LEU:HD23	1:Q:469:TYR:CE1	2.40	0.51
1:R:359:SER:HA	1:R:369:THR:HG22	1.92	0.51
1:S:30:ARG:NE	1:S:41:LYS:HD2	2.25	0.51
1:T:21:GLN:OE1	1:T:483:GLN:NE2	2.40	0.51
1:U:112:GLN:HG2	1:U:175:GLN:NE2	2.26	0.51
1:U:147:VAL:HG21	1:U:155:ILE:CD1	2.35	0.51
1:C:186:THR:HG22	1:C:290:PRO:C	2.31	0.50
1:C:186:THR:CB	1:C:289:THR:C	2.82	0.50
1:E:144:THR:HG22	1:E:156:ASP:OD2	2.10	0.50
1:E:480:GLN:CD	1:J:492:GLN:NE2	2.70	0.50
1:I:49:ILE:CD1	1:I:49:ILE:N	2.73	0.50
1:J:321:TYR:CD2	1:J:380:LYS:CD	2.94	0.50
1:J:487:THR:HG21	1:O:500:VAL:HA	1.93	0.50
1:M:321:TYR:CD2	1:M:380:LYS:CD	2.94	0.50
1:M:359:SER:HA	1:M:369:THR:HG22	1.92	0.50
1:N:487:THR:HG21	1:S:500:VAL:HA	1.93	0.50
1:P:17:LEU:HD11	1:P:487:THR:OG1	2.11	0.50
1:P:463:ARG:CG	1:P:463:ARG:NH1	2.73	0.50
1:Q:17:LEU:HD11	1:Q:487:THR:OG1	2.12	0.50
1:T:418:PRO:O	1:T:422:ILE:HG13	2.11	0.50
1:U:45:ALA:HA	1:U:49:ILE:CD1	2.39	0.50
1:W:30:ARG:NE	1:W:41:LYS:HD2	2.25	0.50
1:C:180:VAL:CG2	1:C:321:TYR:CE1	2.93	0.50
1:C:480:GLN:OE1	1:H:492:GLN:NE2	2.44	0.50
1:F:17:LEU:HD11	1:F:487:THR:OG1	2.12	0.50
1:G:401:PHE:CE1	1:G:407:LEU:HD11	2.36	0.50
1:K:17:LEU:HD11	1:K:487:THR:OG1	2.11	0.50
1:K:418:PRO:O	1:K:422:ILE:HG13	2.11	0.50
1:N:418:PRO:O	1:N:422:ILE:HG13	2.11	0.50
1:O:418:PRO:O	1:O:422:ILE:HG13	2.11	0.50
1:R:321:TYR:CD2	1:R:380:LYS:CD	2.94	0.50
1:U:81:LEU:HD13	1:U:433:ARG:HG2	1.93	0.50
1:U:321:TYR:CD2	1:U:380:LYS:CD	2.94	0.50
1:W:17:LEU:HD11	1:W:487:THR:OG1	2.11	0.50
1:B:17:LEU:HD11	1:B:487:THR:OG1	2.12	0.50
1:C:364:ASP:HB2	1:C:402:LYS:NZ	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:321:TYR:CD2	1:E:380:LYS:CD	2.95	0.50
1:E:480:GLN:OE1	1:J:492:GLN:NE2	2.45	0.50
1:F:112:GLN:HG2	1:F:175:GLN:NE2	2.26	0.50
1:G:417:ASN:ND2	1:G:420:GLN:OE1	2.44	0.50
1:G:463:ARG:HG2	1:G:463:ARG:NH1	2.16	0.50
1:K:157:ILE:HG22	1:K:158:ASP:N	2.27	0.50
1:K:180:VAL:CG2	1:K:321:TYR:CE1	2.93	0.50
1:M:186:THR:CB	1:M:289:THR:C	2.82	0.50
1:O:321:TYR:CD2	1:O:380:LYS:CD	2.94	0.50
1:P:112:GLN:HG2	1:P:175:GLN:NE2	2.26	0.50
1:Q:463:ARG:HH11	1:Q:463:ARG:CG	2.14	0.50
1:Q:463:ARG:NH1	1:Q:463:ARG:CG	2.73	0.50
1:S:112:GLN:HG2	1:S:175:GLN:NE2	2.26	0.50
1:C:17:LEU:HD11	1:C:487:THR:OG1	2.11	0.50
1:G:45:ALA:HA	1:G:49:ILE:CD1	2.39	0.50
1:J:17:LEU:HD11	1:J:487:THR:OG1	2.11	0.50
1:K:21:GLN:OE1	1:K:483:GLN:NE2	2.40	0.50
1:O:92:ARG:NH2	1:O:423:ASP:OD1	2.43	0.50
1:P:321:TYR:CD2	1:P:380:LYS:CD	2.94	0.50
1:Q:112:GLN:HG2	1:Q:175:GLN:NE2	2.26	0.50
1:S:17:LEU:HD11	1:S:487:THR:OG1	2.11	0.50
1:U:360:TYR:CE1	1:U:386:ILE:HD13	2.47	0.50
1:W:112:GLN:HG2	1:W:175:GLN:NE2	2.26	0.50
1:A:186:THR:CB	1:A:289:THR:C	2.82	0.50
1:D:49:ILE:CD1	1:D:49:ILE:N	2.73	0.50
1:D:81:LEU:HD13	1:D:433:ARG:HG2	1.93	0.50
1:F:81:LEU:HD13	1:F:433:ARG:HG2	1.93	0.50
1:H:17:LEU:HD11	1:H:487:THR:OG1	2.11	0.50
1:H:180:VAL:HG23	1:H:321:TYR:HD1	1.61	0.50
1:H:321:TYR:CD2	1:H:380:LYS:CD	2.94	0.50
1:H:418:PRO:O	1:H:422:ILE:HG13	2.11	0.50
1:J:45:ALA:HA	1:J:49:ILE:CD1	2.39	0.50
1:J:93:GLU:HG3	1:U:62:GLN:HB2	1.93	0.50
1:J:112:GLN:HG2	1:J:175:GLN:NE2	2.26	0.50
1:J:418:PRO:O	1:J:422:ILE:HG13	2.11	0.50
1:M:112:GLN:HG2	1:M:175:GLN:NE2	2.26	0.50
1:N:145:ILE:O	1:N:154:THR:CA	2.39	0.50
1:N:147:VAL:HG21	1:N:155:ILE:CD1	2.35	0.50
1:O:360:TYR:CE1	1:O:386:ILE:HD13	2.47	0.50
1:Q:81:LEU:HD13	1:Q:433:ARG:HG2	1.93	0.50
1:R:417:ASN:ND2	1:R:420:GLN:OE1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:144:THR:HG22	1:W:156:ASP:OD2	2.10	0.50
1:A:35:LEU:HD21	1:L:5:ASN:HD21	1.70	0.50
1:D:321:TYR:CD2	1:D:380:LYS:CD	2.95	0.50
1:E:93:GLU:HG3	1:P:62:GLN:HB2	1.92	0.50
1:F:30:ARG:NE	1:F:41:LYS:HD2	2.25	0.50
1:F:157:ILE:HG22	1:F:158:ASP:N	2.27	0.50
1:G:186:THR:CB	1:G:289:THR:C	2.82	0.50
1:H:35:LEU:HD23	1:S:5:ASN:HD22	1.75	0.50
1:H:93:GLU:HG3	1:S:62:GLN:HB2	1.93	0.50
1:K:112:GLN:HG2	1:K:175:GLN:NE2	2.26	0.50
1:L:45:ALA:O	1:L:49:ILE:CB	2.60	0.50
1:L:480:GLN:OE1	1:Q:492:GLN:NE2	2.45	0.50
1:M:417:ASN:ND2	1:M:420:GLN:OE1	2.44	0.50
1:N:112:GLN:HG2	1:N:175:GLN:NE2	2.26	0.50
1:R:17:LEU:HD11	1:R:487:THR:OG1	2.11	0.50
1:R:49:ILE:CD1	1:R:49:ILE:N	2.73	0.50
1:R:61:THR:O	1:R:65:ARG:HG3	2.12	0.50
1:S:321:TYR:CD2	1:S:380:LYS:CD	2.95	0.50
1:T:180:VAL:CG2	1:T:321:TYR:CE1	2.93	0.50
1:U:463:ARG:CG	1:U:463:ARG:NH1	2.73	0.50
1:A:112:GLN:HG2	1:A:175:GLN:NE2	2.26	0.50
1:A:157:ILE:HG22	1:A:158:ASP:N	2.27	0.50
1:D:61:THR:O	1:D:65:ARG:HG3	2.12	0.50
1:E:360:TYR:CE1	1:E:386:ILE:HD13	2.47	0.50
1:J:35:LEU:HD21	1:U:5:ASN:HD21	1.66	0.50
1:K:360:TYR:CE1	1:K:386:ILE:HD13	2.47	0.50
1:L:31:LEU:HD23	1:L:469:TYR:CE1	2.40	0.50
1:M:30:ARG:NE	1:M:41:LYS:HD2	2.25	0.50
1:O:364:ASP:HB2	1:O:402:LYS:NZ	2.24	0.50
1:P:364:ASP:HB2	1:P:402:LYS:NZ	2.24	0.50
1:Q:157:ILE:HG22	1:Q:158:ASP:N	2.27	0.50
1:T:61:THR:O	1:T:65:ARG:HG3	2.12	0.50
1:U:17:LEU:HD11	1:U:487:THR:OG1	2.11	0.50
1:W:321:TYR:CD2	1:W:380:LYS:CD	2.94	0.50
1:A:17:LEU:HD11	1:A:487:THR:OG1	2.11	0.50
1:B:417:ASN:ND2	1:B:420:GLN:OE1	2.44	0.50
1:C:112:GLN:HG2	1:C:175:GLN:NE2	2.26	0.50
1:D:112:GLN:HG2	1:D:175:GLN:NE2	2.26	0.50
1:E:147:VAL:HG21	1:E:155:ILE:CD1	2.35	0.50
1:E:501:LEU:HB3	1:E:505:ARG:HH11	1.54	0.50
1:F:364:ASP:HB2	1:F:402:LYS:NZ	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:359:SER:HA	1:G:369:THR:HG22	1.92	0.50
1:H:61:THR:O	1:H:65:ARG:HG3	2.12	0.50
1:J:61:THR:O	1:J:65:ARG:HG3	2.12	0.50
1:K:321:TYR:CD2	1:K:380:LYS:CD	2.94	0.50
1:L:61:THR:O	1:L:65:ARG:HG3	2.12	0.50
1:M:364:ASP:HB2	1:M:402:LYS:NZ	2.24	0.50
1:N:321:TYR:CD2	1:N:380:LYS:CD	2.94	0.50
1:O:45:ALA:HA	1:O:49:ILE:CD1	2.39	0.50
1:T:17:LEU:HD11	1:T:487:THR:OG1	2.12	0.50
1:T:81:LEU:HD13	1:T:433:ARG:HG2	1.93	0.50
1:T:321:TYR:CD2	1:T:380:LYS:CD	2.95	0.50
1:U:418:PRO:O	1:U:422:ILE:HG13	2.11	0.50
1:A:31:LEU:HD23	1:A:469:TYR:CE1	2.40	0.50
1:B:21:GLN:OE1	1:B:483:GLN:NE2	2.40	0.50
1:C:61:THR:O	1:C:65:ARG:HG3	2.12	0.50
1:H:112:GLN:HG2	1:H:175:GLN:NE2	2.26	0.50
1:I:17:LEU:HD11	1:I:487:THR:OG1	2.11	0.50
1:K:81:LEU:HD13	1:K:433:ARG:HG2	1.92	0.50
1:L:157:ILE:HG22	1:L:158:ASP:N	2.27	0.50
1:L:321:TYR:CD2	1:L:380:LYS:CD	2.94	0.50
1:N:17:LEU:HD11	1:N:487:THR:OG1	2.12	0.50
1:O:318:LYS:HE2	1:O:330:GLU:OE2	2.07	0.50
1:P:45:ALA:O	1:P:49:ILE:CB	2.60	0.50
1:P:157:ILE:HG22	1:P:158:ASP:N	2.27	0.50
1:R:418:PRO:O	1:R:422:ILE:HG13	2.11	0.50
1:A:81:LEU:HD13	1:A:433:ARG:HG2	1.93	0.49
1:B:81:LEU:HD13	1:B:433:ARG:HG2	1.92	0.49
1:C:321:TYR:CD2	1:C:380:LYS:CD	2.94	0.49
1:C:417:ASN:ND2	1:C:420:GLN:OE1	2.44	0.49
1:D:487:THR:HG21	1:I:500:VAL:HA	1.94	0.49
1:E:45:ALA:O	1:E:49:ILE:CB	2.60	0.49
1:E:157:ILE:HG22	1:E:158:ASP:N	2.27	0.49
1:F:485:ALA:HB1	1:L:505:ARG:CD	2.42	0.49
1:G:37:ILE:HA	1:G:41:LYS:HG3	1.94	0.49
1:G:157:ILE:HG22	1:G:158:ASP:N	2.27	0.49
1:G:321:TYR:CD2	1:G:380:LYS:CD	2.95	0.49
1:I:31:LEU:CD2	1:I:469:TYR:CD1	2.67	0.49
1:I:45:ALA:O	1:I:49:ILE:CB	2.60	0.49
1:I:321:TYR:CD2	1:I:380:LYS:CD	2.95	0.49
1:J:37:ILE:HA	1:J:41:LYS:HG3	1.94	0.49
1:M:81:LEU:HD13	1:M:433:ARG:HG2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:463:ARG:HG2	1:M:463:ARG:NH1	2.16	0.49
1:O:61:THR:O	1:O:65:ARG:HG3	2.12	0.49
1:O:180:VAL:HG23	1:O:321:TYR:HD1	1.61	0.49
1:P:61:THR:O	1:P:65:ARG:HG3	2.12	0.49
1:R:81:LEU:HD13	1:R:433:ARG:HG2	1.93	0.49
1:S:81:LEU:HD13	1:S:433:ARG:HG2	1.93	0.49
1:S:418:PRO:O	1:S:422:ILE:HG13	2.11	0.49
1:A:180:VAL:HG23	1:A:321:TYR:HD1	1.61	0.49
1:A:321:TYR:CD2	1:A:380:LYS:CD	2.94	0.49
1:C:81:LEU:HD13	1:C:433:ARG:HG2	1.93	0.49
1:C:157:ILE:HG22	1:C:158:ASP:N	2.27	0.49
1:E:17:LEU:HD11	1:E:487:THR:OG1	2.11	0.49
1:F:93:GLU:HG3	1:Q:62:GLN:HB2	1.93	0.49
1:G:81:LEU:HD13	1:G:433:ARG:HG2	1.93	0.49
1:I:61:THR:O	1:I:65:ARG:HG3	2.12	0.49
1:I:186:THR:HG22	1:I:290:PRO:C	2.31	0.49
1:J:466:ASP:OD1	1:U:5:ASN:HB3	2.12	0.49
1:L:37:ILE:HA	1:L:41:LYS:HG3	1.94	0.49
1:L:112:GLN:HG2	1:L:175:GLN:NE2	2.26	0.49
1:N:31:LEU:CD2	1:N:469:TYR:CD1	2.67	0.49
1:N:417:ASN:ND2	1:N:420:GLN:OE1	2.44	0.49
1:R:157:ILE:HG22	1:R:158:ASP:N	2.27	0.49
1:S:4:ILE:CG1	1:S:501:LEU:HD12	2.02	0.49
1:S:145:ILE:O	1:S:154:THR:CA	2.39	0.49
1:S:182:ASP:O	1:S:182:ASP:OD1	2.30	0.49
1:T:31:LEU:CD2	1:T:469:TYR:CD1	2.67	0.49
1:W:37:ILE:HA	1:W:41:LYS:HG3	1.94	0.49
1:A:37:ILE:HA	1:A:41:LYS:HG3	1.95	0.49
1:B:112:GLN:HG2	1:B:175:GLN:NE2	2.26	0.49
1:B:180:VAL:CG2	1:B:321:TYR:CE1	2.93	0.49
1:B:321:TYR:CD2	1:B:380:LYS:CD	2.94	0.49
1:C:31:LEU:CD2	1:C:469:TYR:CD1	2.67	0.49
1:C:182:ASP:O	1:C:182:ASP:OD1	2.31	0.49
1:E:37:ILE:HA	1:E:41:LYS:HG3	1.95	0.49
1:F:61:THR:O	1:F:65:ARG:HG3	2.12	0.49
1:G:61:THR:O	1:G:65:ARG:HG3	2.12	0.49
1:G:92:ARG:NH2	1:G:423:ASP:OD1	2.43	0.49
1:G:112:GLN:HG2	1:G:175:GLN:NE2	2.26	0.49
1:G:418:PRO:O	1:G:422:ILE:HG13	2.11	0.49
1:J:35:LEU:CD2	1:U:5:ASN:HD22	2.19	0.49
1:J:35:LEU:HD23	1:U:5:ASN:HD22	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:178:TYR:CD2	1:J:378:ASP:CB	2.96	0.49
1:M:38:ASN:H	1:M:41:LYS:CG	2.26	0.49
1:M:61:THR:O	1:M:65:ARG:HG3	2.12	0.49
1:O:112:GLN:HG2	1:O:175:GLN:NE2	2.26	0.49
1:P:30:ARG:NE	1:P:41:LYS:HD2	2.25	0.49
1:P:180:VAL:CG2	1:P:321:TYR:CE1	2.93	0.49
1:Q:417:ASN:ND2	1:Q:420:GLN:OE1	2.44	0.49
1:R:37:ILE:HA	1:R:41:LYS:HG3	1.94	0.49
1:R:120:ASN:ND2	1:R:395:LYS:NZ	2.60	0.49
1:S:61:THR:O	1:S:65:ARG:HG3	2.12	0.49
1:S:120:ASN:ND2	1:S:395:LYS:NZ	2.60	0.49
1:T:112:GLN:HG2	1:T:175:GLN:NE2	2.26	0.49
1:T:157:ILE:HG22	1:T:158:ASP:N	2.27	0.49
1:T:182:ASP:OD1	1:T:182:ASP:O	2.30	0.49
1:U:61:THR:O	1:U:65:ARG:HG3	2.12	0.49
1:U:157:ILE:HG22	1:U:158:ASP:N	2.27	0.49
1:U:178:TYR:CD2	1:U:378:ASP:CB	2.96	0.49
1:W:180:VAL:HG23	1:W:321:TYR:HD1	1.61	0.49
1:W:432:LEU:CD2	1:W:432:LEU:C	2.86	0.49
1:A:61:THR:O	1:A:65:ARG:HG3	2.12	0.49
1:B:37:ILE:HA	1:B:41:LYS:HG3	1.95	0.49
1:C:37:ILE:HA	1:C:41:LYS:CB	2.43	0.49
1:D:17:LEU:HD11	1:D:487:THR:OG1	2.12	0.49
1:D:37:ILE:HA	1:D:41:LYS:HG3	1.95	0.49
1:F:37:ILE:HA	1:F:41:LYS:HG3	1.95	0.49
1:F:92:ARG:NH2	1:F:423:ASP:OD1	2.43	0.49
1:F:417:ASN:ND2	1:F:420:GLN:OE1	2.44	0.49
1:G:38:ASN:H	1:G:41:LYS:CG	2.26	0.49
1:G:180:VAL:CG2	1:G:321:TYR:CE1	2.93	0.49
1:H:182:ASP:O	1:H:182:ASP:OD1	2.31	0.49
1:I:172:LEU:HD12	1:I:415:THR:HG21	1.94	0.49
1:I:419:LEU:CD1	1:T:151:ASP:HA	2.41	0.49
1:J:45:ALA:O	1:J:49:ILE:CB	2.60	0.49
1:L:81:LEU:HD21	1:L:162:ILE:HD13	1.94	0.49
1:N:182:ASP:O	1:N:182:ASP:OD1	2.30	0.49
1:N:463:ARG:HG2	1:N:463:ARG:NH1	2.16	0.49
1:O:172:LEU:HD12	1:O:415:THR:HG21	1.94	0.49
1:P:45:ALA:HA	1:P:49:ILE:CD1	2.39	0.49
1:Q:37:ILE:HA	1:Q:41:LYS:HG3	1.95	0.49
1:Q:92:ARG:NH2	1:Q:423:ASP:OD1	2.43	0.49
1:Q:321:TYR:CD2	1:Q:380:LYS:CD	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:37:ILE:HA	1:S:41:LYS:CB	2.43	0.49
1:T:45:ALA:O	1:T:49:ILE:CB	2.60	0.49
1:T:172:LEU:HD12	1:T:415:THR:HG21	1.94	0.49
1:U:37:ILE:HA	1:U:41:LYS:HG3	1.95	0.49
1:U:45:ALA:O	1:U:49:ILE:CB	2.60	0.49
1:W:61:THR:O	1:W:65:ARG:HG3	2.12	0.49
1:W:463:ARG:NH1	1:W:463:ARG:CG	2.73	0.49
1:A:120:ASN:ND2	1:A:395:LYS:NZ	2.61	0.49
1:D:172:LEU:HD12	1:D:415:THR:HG21	1.94	0.49
1:F:45:ALA:O	1:F:49:ILE:CB	2.60	0.49
1:I:30:ARG:NE	1:I:41:LYS:HD2	2.25	0.49
1:I:37:ILE:HA	1:I:41:LYS:HG3	1.94	0.49
1:I:112:GLN:HG2	1:I:175:GLN:NE2	2.26	0.49
1:J:92:ARG:NH2	1:J:423:ASP:OD1	2.43	0.49
1:J:172:LEU:HD12	1:J:415:THR:HG21	1.94	0.49
1:J:360:TYR:CE1	1:J:386:ILE:HD13	2.47	0.49
1:K:37:ILE:HA	1:K:41:LYS:HG3	1.95	0.49
1:N:37:ILE:HA	1:N:41:LYS:CB	2.43	0.49
1:N:45:ALA:HA	1:N:49:ILE:CD1	2.39	0.49
1:N:172:LEU:HD12	1:N:415:THR:HG21	1.95	0.49
1:O:37:ILE:HA	1:O:41:LYS:HG3	1.94	0.49
1:O:81:LEU:HD21	1:O:162:ILE:HD13	1.94	0.49
1:P:37:ILE:HA	1:P:41:LYS:HG3	1.95	0.49
1:R:92:ARG:NH2	1:R:423:ASP:OD1	2.43	0.49
1:A:318:LYS:HE2	1:A:330:GLU:OE2	2.07	0.49
1:B:61:THR:O	1:B:65:ARG:HG3	2.12	0.49
1:B:120:ASN:ND2	1:B:395:LYS:NZ	2.61	0.49
1:B:182:ASP:OD1	1:B:182:ASP:O	2.31	0.49
1:B:360:TYR:CE1	1:B:386:ILE:HD13	2.47	0.49
1:C:37:ILE:HA	1:C:41:LYS:HG3	1.95	0.49
1:D:45:ALA:HA	1:D:49:ILE:CD1	2.39	0.49
1:D:81:LEU:HD21	1:D:162:ILE:HD13	1.94	0.49
1:F:145:ILE:O	1:F:154:THR:CA	2.39	0.49
1:I:178:TYR:CD2	1:I:378:ASP:CB	2.96	0.49
1:I:182:ASP:OD1	1:I:182:ASP:O	2.31	0.49
1:J:157:ILE:HG22	1:J:158:ASP:N	2.27	0.49
1:K:419:LEU:CG	1:W:151:ASP:OD1	2.56	0.49
1:L:81:LEU:HD13	1:L:433:ARG:HG2	1.93	0.49
1:L:178:TYR:CD2	1:L:378:ASP:CB	2.96	0.49
1:M:45:ALA:HA	1:M:49:ILE:CD1	2.39	0.49
1:P:21:GLN:OE1	1:P:483:GLN:NE2	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:45:ALA:O	1:Q:49:ILE:CB	2.60	0.49
1:S:157:ILE:HG22	1:S:158:ASP:N	2.27	0.49
1:W:360:TYR:CE1	1:W:386:ILE:HD13	2.47	0.49
1:A:92:ARG:NH2	1:A:423:ASP:OD1	2.43	0.49
1:A:358:THR:HG23	1:A:360:TYR:CD2	2.43	0.49
1:B:45:ALA:HA	1:B:49:ILE:CD1	2.39	0.49
1:B:358:THR:HG23	1:B:360:TYR:CD2	2.43	0.49
1:D:182:ASP:OD1	1:D:182:ASP:O	2.31	0.49
1:D:360:TYR:CE1	1:D:386:ILE:HD13	2.47	0.49
1:E:186:THR:HG22	1:E:290:PRO:C	2.31	0.49
1:F:178:TYR:CD2	1:F:378:ASP:CB	2.96	0.49
1:G:178:TYR:CD2	1:G:378:ASP:CB	2.96	0.49
1:H:37:ILE:HA	1:H:41:LYS:CB	2.43	0.49
1:H:45:ALA:O	1:H:49:ILE:CB	2.60	0.49
1:I:37:ILE:HA	1:I:41:LYS:CB	2.43	0.49
1:I:81:LEU:HD21	1:I:162:ILE:HD13	1.94	0.49
1:K:35:LEU:HD23	1:W:5:ASN:HD22	1.76	0.49
1:K:463:ARG:HG2	1:K:463:ARG:NH1	2.16	0.49
1:M:178:TYR:CD2	1:M:378:ASP:CB	2.96	0.49
1:N:38:ASN:H	1:N:41:LYS:CG	2.25	0.49
1:N:463:ARG:CG	1:N:463:ARG:NH1	2.73	0.49
1:O:182:ASP:OD1	1:O:182:ASP:O	2.31	0.49
1:O:487:THR:HG21	1:T:500:VAL:HA	1.95	0.49
1:P:360:TYR:CE1	1:P:386:ILE:HD13	2.47	0.49
1:Q:178:TYR:CD2	1:Q:378:ASP:CB	2.96	0.49
1:Q:401:PHE:CE1	1:Q:407:LEU:HD11	2.36	0.49
1:S:37:ILE:HA	1:S:41:LYS:HG3	1.94	0.49
1:S:463:ARG:HH11	1:S:463:ARG:CG	2.14	0.49
1:T:178:TYR:CD2	1:T:378:ASP:CB	2.96	0.49
1:U:120:ASN:ND2	1:U:395:LYS:NZ	2.60	0.49
1:A:178:TYR:CD2	1:A:378:ASP:CB	2.96	0.49
1:B:157:ILE:HG22	1:B:158:ASP:N	2.27	0.49
1:B:178:TYR:CD2	1:B:378:ASP:CB	2.96	0.49
1:C:172:LEU:HD12	1:C:415:THR:HG21	1.94	0.49
1:C:301:LEU:HD21	1:C:337:ALA:CB	2.25	0.49
1:C:463:ARG:HH11	1:C:463:ARG:CG	2.14	0.49
1:F:321:TYR:CD2	1:F:380:LYS:CD	2.94	0.49
1:H:37:ILE:HA	1:H:41:LYS:HG3	1.95	0.49
1:H:81:LEU:HD13	1:H:432:LEU:HD22	1.92	0.49
1:H:360:TYR:CE1	1:H:386:ILE:HD13	2.47	0.49
1:I:463:ARG:CG	1:I:463:ARG:NH1	2.73	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:487:THR:HG21	1:P:500:VAL:HA	1.95	0.49
1:M:37:ILE:HA	1:M:41:LYS:HG3	1.95	0.49
1:M:120:ASN:ND2	1:M:395:LYS:NZ	2.60	0.49
1:N:157:ILE:HG22	1:N:158:ASP:N	2.27	0.49
1:N:364:ASP:HB2	1:N:402:LYS:NZ	2.24	0.49
1:O:17:LEU:HD11	1:O:487:THR:OG1	2.12	0.49
1:O:120:ASN:ND2	1:O:395:LYS:NZ	2.60	0.49
1:Q:38:ASN:H	1:Q:41:LYS:CG	2.25	0.49
1:T:145:ILE:O	1:T:154:THR:CA	2.39	0.49
1:U:4:ILE:O	1:U:4:ILE:CG2	2.61	0.49
1:U:172:LEU:HD12	1:U:415:THR:HG21	1.94	0.49
1:W:157:ILE:HG22	1:W:158:ASP:N	2.27	0.49
1:W:178:TYR:HD2	1:W:378:ASP:C	2.21	0.49
1:C:38:ASN:H	1:C:41:LYS:CG	2.25	0.49
1:C:81:LEU:HD21	1:C:162:ILE:HD13	1.94	0.49
1:D:180:VAL:CG2	1:D:321:TYR:CE1	2.93	0.49
1:E:38:ASN:H	1:E:41:LYS:CG	2.25	0.49
1:G:45:ALA:O	1:G:49:ILE:CB	2.60	0.49
1:G:318:LYS:HE2	1:G:330:GLU:OE2	2.07	0.49
1:G:485:ALA:HB1	1:M:505:ARG:CD	2.43	0.49
1:H:417:ASN:ND2	1:H:420:GLN:OE1	2.44	0.49
1:I:480:GLN:OE1	1:N:492:GLN:NE2	2.46	0.49
1:P:24:LEU:CD1	1:P:476:MET:HG3	2.43	0.49
1:Q:358:THR:HG23	1:Q:360:TYR:CD2	2.43	0.49
1:R:38:ASN:H	1:R:41:LYS:CG	2.26	0.49
1:S:386:ILE:CD1	1:S:401:PHE:CZ	2.95	0.49
1:T:4:ILE:O	1:T:4:ILE:CG2	2.61	0.49
1:T:81:LEU:HD21	1:T:162:ILE:HD13	1.94	0.49
1:A:28:ILE:HG12	1:F:489:VAL:HG13	1.94	0.49
1:D:157:ILE:HG22	1:D:158:ASP:N	2.27	0.49
1:D:463:ARG:CG	1:D:463:ARG:NH1	2.73	0.49
1:E:120:ASN:ND2	1:E:395:LYS:NZ	2.61	0.49
1:E:178:TYR:CD2	1:E:378:ASP:CB	2.96	0.49
1:F:38:ASN:H	1:F:41:LYS:CG	2.26	0.49
1:F:81:LEU:HD21	1:F:162:ILE:HD13	1.94	0.49
1:F:182:ASP:OD1	1:F:182:ASP:O	2.30	0.49
1:G:35:LEU:CD2	1:R:5:ASN:HD22	2.21	0.49
1:H:38:ASN:H	1:H:41:LYS:CG	2.26	0.49
1:H:157:ILE:HG22	1:H:158:ASP:N	2.27	0.49
1:H:178:TYR:CD2	1:H:378:ASP:CB	2.96	0.49
1:J:24:LEU:CD1	1:J:476:MET:HG3	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:81:LEU:HD21	1:J:162:ILE:HD13	1.94	0.49
1:J:120:ASN:ND2	1:J:395:LYS:NZ	2.60	0.49
1:J:178:TYR:HD2	1:J:378:ASP:C	2.21	0.49
1:K:81:LEU:HD13	1:K:432:LEU:HD22	1.92	0.49
1:L:386:ILE:CD1	1:L:401:PHE:CZ	2.96	0.49
1:M:182:ASP:OD1	1:M:182:ASP:O	2.31	0.49
1:N:61:THR:O	1:N:65:ARG:HG3	2.12	0.49
1:N:81:LEU:HD21	1:N:162:ILE:HD13	1.94	0.49
1:N:120:ASN:ND2	1:N:395:LYS:NZ	2.61	0.49
1:O:157:ILE:HG22	1:O:158:ASP:N	2.27	0.49
1:P:172:LEU:HD12	1:P:415:THR:HG21	1.95	0.49
1:P:178:TYR:CD2	1:P:378:ASP:CB	2.96	0.49
1:Q:120:ASN:ND2	1:Q:395:LYS:NZ	2.60	0.49
1:R:112:GLN:HG2	1:R:175:GLN:NE2	2.26	0.49
1:S:45:ALA:O	1:S:49:ILE:CB	2.60	0.49
1:S:172:LEU:HD12	1:S:415:THR:HG21	1.94	0.49
1:T:37:ILE:HA	1:T:41:LYS:HG3	1.95	0.49
1:T:178:TYR:HD2	1:T:378:ASP:C	2.21	0.49
1:U:81:LEU:HD21	1:U:162:ILE:HD13	1.94	0.49
1:B:81:LEU:HD21	1:B:162:ILE:HD13	1.94	0.48
1:B:97:GLN:OE1	1:R:45:ALA:CB	2.60	0.48
1:B:186:THR:HG22	1:B:290:PRO:C	2.31	0.48
1:C:405:PRO:C	1:C:406:GLU:HG3	2.38	0.48
1:E:172:LEU:HD12	1:E:415:THR:HG21	1.95	0.48
1:E:178:TYR:HD2	1:E:378:ASP:C	2.21	0.48
1:F:120:ASN:ND2	1:F:395:LYS:NZ	2.60	0.48
1:F:405:PRO:C	1:F:406:GLU:HG3	2.38	0.48
1:G:120:ASN:ND2	1:G:395:LYS:NZ	2.60	0.48
1:H:172:LEU:HD12	1:H:415:THR:HG21	1.95	0.48
1:J:186:THR:HG22	1:J:290:PRO:C	2.31	0.48
1:J:318:LYS:HE2	1:J:330:GLU:OE2	2.07	0.48
1:K:93:GLU:HG3	1:W:62:GLN:HB2	1.93	0.48
1:L:92:ARG:NH2	1:L:423:ASP:OD1	2.43	0.48
1:M:37:ILE:HA	1:M:41:LYS:CB	2.43	0.48
1:N:4:ILE:O	1:N:4:ILE:CG2	2.61	0.48
1:N:37:ILE:HA	1:N:41:LYS:HG3	1.95	0.48
1:O:4:ILE:O	1:O:4:ILE:CG2	2.61	0.48
1:O:81:LEU:HD13	1:O:432:LEU:HD22	1.92	0.48
1:Q:45:ALA:HA	1:Q:49:ILE:CD1	2.39	0.48
1:R:178:TYR:CD2	1:R:378:ASP:CB	2.96	0.48
1:R:182:ASP:OD1	1:R:182:ASP:O	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:386:ILE:CD1	1:R:401:PHE:CZ	2.96	0.48
1:S:38:ASN:H	1:S:41:LYS:CG	2.26	0.48
1:S:178:TYR:CD2	1:S:378:ASP:CB	2.96	0.48
1:T:401:PHE:CE1	1:T:407:LEU:HD11	2.36	0.48
1:U:38:ASN:H	1:U:41:LYS:CG	2.26	0.48
1:W:37:ILE:HA	1:W:41:LYS:CB	2.43	0.48
1:D:24:LEU:CD1	1:D:476:MET:HG3	2.43	0.48
1:D:37:ILE:HA	1:D:41:LYS:CB	2.43	0.48
1:D:120:ASN:ND2	1:D:395:LYS:NZ	2.61	0.48
1:D:405:PRO:C	1:D:406:GLU:HG3	2.38	0.48
1:E:61:THR:O	1:E:65:ARG:HG3	2.12	0.48
1:G:30:ARG:NE	1:G:41:LYS:HD2	2.25	0.48
1:I:178:TYR:HD2	1:I:378:ASP:C	2.21	0.48
1:K:81:LEU:HD21	1:K:162:ILE:HD13	1.94	0.48
1:K:178:TYR:CD2	1:K:378:ASP:CB	2.96	0.48
1:K:182:ASP:O	1:K:182:ASP:OD1	2.31	0.48
1:L:120:ASN:ND2	1:L:395:LYS:NZ	2.60	0.48
1:L:180:VAL:CG2	1:L:321:TYR:CE1	2.93	0.48
1:M:81:LEU:HD21	1:M:162:ILE:HD13	1.94	0.48
1:O:173:ASN:CG	1:O:411:ALA:HB3	2.24	0.48
1:P:480:GLN:CD	1:U:492:GLN:NE2	2.71	0.48
1:R:45:ALA:O	1:R:49:ILE:CB	2.60	0.48
1:R:81:LEU:HD21	1:R:162:ILE:HD13	1.94	0.48
1:S:4:ILE:O	1:S:4:ILE:CG2	2.61	0.48
1:T:37:ILE:HA	1:T:41:LYS:CB	2.43	0.48
1:T:405:PRO:C	1:T:406:GLU:HG3	2.39	0.48
1:U:24:LEU:CD1	1:U:476:MET:HG3	2.43	0.48
1:U:178:TYR:HD2	1:U:378:ASP:C	2.21	0.48
1:U:182:ASP:OD1	1:U:182:ASP:O	2.31	0.48
1:A:81:LEU:HD21	1:A:162:ILE:HD13	1.94	0.48
1:A:130:GLN:OE1	1:F:150:ASN:ND2	2.35	0.48
1:C:364:ASP:CB	1:C:402:LYS:NZ	2.62	0.48
1:D:186:THR:CB	1:D:289:THR:C	2.82	0.48
1:E:24:LEU:CD1	1:E:476:MET:HG3	2.43	0.48
1:E:45:ALA:HA	1:E:49:ILE:CD1	2.39	0.48
1:G:182:ASP:OD1	1:G:182:ASP:O	2.31	0.48
1:G:360:TYR:CE1	1:G:386:ILE:HD13	2.47	0.48
1:I:78:GLU:OE2	1:T:39:SER:OG	2.31	0.48
1:I:120:ASN:ND2	1:I:395:LYS:NZ	2.60	0.48
1:K:61:THR:O	1:K:65:ARG:HG3	2.12	0.48
1:L:405:PRO:C	1:L:406:GLU:HG3	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:360:TYR:CE1	1:M:386:ILE:HD13	2.47	0.48
1:M:364:ASP:CB	1:M:402:LYS:NZ	2.62	0.48
1:N:405:PRO:C	1:N:406:GLU:HG3	2.38	0.48
1:O:38:ASN:H	1:O:41:LYS:CG	2.25	0.48
1:P:4:ILE:O	1:P:4:ILE:CG2	2.61	0.48
1:P:81:LEU:HD21	1:P:162:ILE:HD13	1.94	0.48
1:P:120:ASN:ND2	1:P:395:LYS:NZ	2.61	0.48
1:Q:182:ASP:OD1	1:Q:182:ASP:O	2.31	0.48
1:R:360:TYR:CE1	1:R:386:ILE:HD13	2.47	0.48
1:S:81:LEU:HD21	1:S:162:ILE:HD13	1.94	0.48
1:T:120:ASN:ND2	1:T:395:LYS:NZ	2.60	0.48
1:U:405:PRO:C	1:U:406:GLU:HG3	2.38	0.48
1:W:81:LEU:HD21	1:W:162:ILE:HD13	1.94	0.48
1:W:120:ASN:ND2	1:W:395:LYS:NZ	2.60	0.48
1:A:417:ASN:ND2	1:A:420:GLN:OE1	2.44	0.48
1:B:38:ASN:H	1:B:41:LYS:CG	2.26	0.48
1:B:92:ARG:NH2	1:B:423:ASP:OD1	2.43	0.48
1:C:45:ALA:HA	1:C:49:ILE:CD1	2.39	0.48
1:C:430:ASP:OD2	1:N:51:ASN:CG	2.56	0.48
1:C:466:ASP:OD1	1:N:5:ASN:HB3	2.14	0.48
1:E:81:LEU:HD21	1:E:162:ILE:HD13	1.94	0.48
1:E:92:ARG:NH2	1:E:423:ASP:OD1	2.43	0.48
1:E:182:ASP:OD1	1:E:182:ASP:O	2.30	0.48
1:E:405:PRO:C	1:E:406:GLU:HG3	2.38	0.48
1:H:120:ASN:ND2	1:H:395:LYS:NZ	2.60	0.48
1:J:182:ASP:OD1	1:J:182:ASP:O	2.31	0.48
1:J:419:LEU:CD1	1:U:151:ASP:HA	2.43	0.48
1:K:24:LEU:CD1	1:K:476:MET:HG3	2.43	0.48
1:K:37:ILE:HA	1:K:41:LYS:CB	2.42	0.48
1:K:178:TYR:CE2	1:K:378:ASP:HB3	2.49	0.48
1:L:358:THR:HG23	1:L:360:TYR:CD2	2.43	0.48
1:L:417:ASN:ND2	1:L:420:GLN:OE1	2.44	0.48
1:M:386:ILE:CD1	1:M:401:PHE:CZ	2.96	0.48
1:M:405:PRO:C	1:M:406:GLU:HG3	2.39	0.48
1:N:178:TYR:CD2	1:N:378:ASP:CB	2.96	0.48
1:O:178:TYR:CE2	1:O:378:ASP:HB3	2.49	0.48
1:P:178:TYR:HD2	1:P:378:ASP:C	2.21	0.48
1:Q:405:PRO:C	1:Q:406:GLU:HG3	2.39	0.48
1:R:81:LEU:HA	1:R:81:LEU:HD23	1.69	0.48
1:R:405:PRO:C	1:R:406:GLU:HG3	2.39	0.48
1:S:405:PRO:C	1:S:406:GLU:HG3	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:417:ASN:ND2	1:S:420:GLN:OE1	2.44	0.48
1:U:180:VAL:CG2	1:U:321:TYR:CE1	2.93	0.48
1:W:24:LEU:CD1	1:W:476:MET:HG3	2.43	0.48
1:W:178:TYR:CD2	1:W:378:ASP:CB	2.96	0.48
1:W:405:PRO:C	1:W:406:GLU:HG3	2.39	0.48
1:A:38:ASN:H	1:A:41:LYS:CG	2.26	0.48
1:A:182:ASP:OD1	1:A:182:ASP:O	2.30	0.48
1:A:186:THR:HG22	1:A:290:PRO:C	2.31	0.48
1:A:480:GLN:CD	1:F:492:GLN:NE2	2.70	0.48
1:B:35:LEU:CD2	1:M:5:ASN:HD22	2.22	0.48
1:C:178:TYR:HD2	1:C:378:ASP:C	2.21	0.48
1:D:31:LEU:CD2	1:D:469:TYR:CD1	2.67	0.48
1:E:145:ILE:O	1:E:154:THR:CA	2.39	0.48
1:E:358:THR:HG23	1:E:360:TYR:CD2	2.43	0.48
1:F:481:ILE:HG12	1:L:498:GLN:HB3	1.96	0.48
1:H:81:LEU:HD21	1:H:162:ILE:HD13	1.94	0.48
1:H:386:ILE:CD1	1:H:401:PHE:CZ	2.96	0.48
1:J:401:PHE:CE1	1:J:407:LEU:HD11	2.36	0.48
1:K:38:ASN:H	1:K:41:LYS:CG	2.26	0.48
1:K:120:ASN:ND2	1:K:395:LYS:NZ	2.60	0.48
1:K:178:TYR:HD2	1:K:378:ASP:C	2.21	0.48
1:P:37:ILE:HA	1:P:41:LYS:CB	2.43	0.48
1:P:480:GLN:OE1	1:U:492:GLN:NE2	2.46	0.48
1:Q:61:THR:O	1:Q:65:ARG:HG3	2.12	0.48
1:S:178:TYR:HD2	1:S:378:ASP:C	2.21	0.48
1:T:24:LEU:CD1	1:T:476:MET:HG3	2.43	0.48
1:W:92:ARG:NH2	1:W:423:ASP:OD1	2.43	0.48
1:W:182:ASP:OD1	1:W:182:ASP:O	2.31	0.48
1:A:405:PRO:C	1:A:406:GLU:HG3	2.38	0.48
1:C:120:ASN:ND2	1:C:395:LYS:NZ	2.60	0.48
1:D:178:TYR:CD2	1:D:378:ASP:CB	2.96	0.48
1:D:178:TYR:HD2	1:D:378:ASP:C	2.21	0.48
1:F:45:ALA:HA	1:F:49:ILE:CD1	2.39	0.48
1:G:405:PRO:C	1:G:406:GLU:HG3	2.39	0.48
1:G:466:ASP:OD1	1:R:5:ASN:HB3	2.13	0.48
1:H:186:THR:HG22	1:H:290:PRO:C	2.31	0.48
1:K:358:THR:HG23	1:K:360:TYR:CD2	2.43	0.48
1:K:419:LEU:CD1	1:W:151:ASP:HA	2.43	0.48
1:L:182:ASP:OD1	1:L:182:ASP:O	2.31	0.48
1:M:157:ILE:HG22	1:M:158:ASP:N	2.27	0.48
1:M:172:LEU:HD12	1:M:415:THR:HG21	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:314:ALA:HB2	1:M:336:LYS:C	2.39	0.48
1:N:360:TYR:CE1	1:N:386:ILE:HD13	2.47	0.48
1:O:178:TYR:CD2	1:O:378:ASP:CB	2.96	0.48
1:O:405:PRO:C	1:O:406:GLU:HG3	2.39	0.48
1:Q:37:ILE:HA	1:Q:41:LYS:CB	2.43	0.48
1:T:4:ILE:CG1	1:T:501:LEU:HD12	2.02	0.48
1:W:4:ILE:O	1:W:4:ILE:CG2	2.61	0.48
1:A:37:ILE:HA	1:A:41:LYS:CB	2.43	0.48
1:A:97:GLN:OE1	1:Q:45:ALA:CB	2.62	0.48
1:B:37:ILE:HA	1:B:41:LYS:CB	2.43	0.48
1:B:81:LEU:HD23	1:B:81:LEU:HA	1.69	0.48
1:C:81:LEU:HD13	1:C:432:LEU:HD22	1.92	0.48
1:D:4:ILE:O	1:D:4:ILE:CG2	2.61	0.48
1:D:38:ASN:H	1:D:41:LYS:CG	2.26	0.48
1:D:417:ASN:ND2	1:D:420:GLN:OE1	2.44	0.48
1:E:178:TYR:CE2	1:E:378:ASP:HB3	2.48	0.48
1:E:417:ASN:ND2	1:E:420:GLN:OE1	2.44	0.48
1:F:24:LEU:CD1	1:F:476:MET:HG3	2.43	0.48
1:G:358:THR:HG23	1:G:360:TYR:CD2	2.43	0.48
1:H:314:ALA:HB2	1:H:336:LYS:C	2.39	0.48
1:K:172:LEU:HD12	1:K:415:THR:HG21	1.94	0.48
1:K:405:PRO:C	1:K:406:GLU:HG3	2.39	0.48
1:L:38:ASN:H	1:L:41:LYS:CG	2.25	0.48
1:L:314:ALA:HB2	1:L:336:LYS:C	2.39	0.48
1:M:130:GLN:CD	1:R:150:ASN:ND2	2.71	0.48
1:O:417:ASN:ND2	1:O:420:GLN:OE1	2.44	0.48
1:P:38:ASN:H	1:P:41:LYS:CG	2.26	0.48
1:P:182:ASP:O	1:P:182:ASP:OD1	2.31	0.48
1:P:417:ASN:ND2	1:P:420:GLN:OE1	2.44	0.48
1:Q:178:TYR:HD2	1:Q:378:ASP:C	2.21	0.48
1:T:4:ILE:HD11	1:T:497:PRO:HB2	1.64	0.48
1:U:37:ILE:HA	1:U:41:LYS:CB	2.43	0.48
1:U:178:TYR:CE2	1:U:378:ASP:HB3	2.48	0.48
1:A:172:LEU:HD12	1:A:415:THR:HG21	1.94	0.48
1:B:24:LEU:CD1	1:B:476:MET:HG3	2.43	0.48
1:B:405:PRO:C	1:B:406:GLU:HG3	2.39	0.48
1:C:178:TYR:CD2	1:C:378:ASP:CB	2.96	0.48
1:D:466:ASP:OD1	1:O:5:ASN:HB3	2.13	0.48
1:E:4:ILE:O	1:E:4:ILE:CG2	2.61	0.48
1:E:143:LEU:C	1:E:156:ASP:OD1	2.57	0.48
1:E:318:LYS:HE2	1:E:330:GLU:OE2	2.07	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:37:ILE:HA	1:F:41:LYS:CB	2.43	0.48
1:F:143:LEU:C	1:F:156:ASP:OD1	2.57	0.48
1:F:358:THR:HG23	1:F:360:TYR:CD2	2.43	0.48
1:F:480:GLN:OE1	1:K:492:GLN:NE2	2.47	0.48
1:G:81:LEU:HD21	1:G:162:ILE:HD13	1.94	0.48
1:G:386:ILE:CD1	1:G:401:PHE:CZ	2.96	0.48
1:H:31:LEU:CD2	1:H:469:TYR:CD1	2.67	0.48
1:H:419:LEU:CD1	1:S:151:ASP:HA	2.43	0.48
1:I:180:VAL:CG2	1:I:321:TYR:CE1	2.93	0.48
1:K:45:ALA:O	1:K:49:ILE:CB	2.60	0.48
1:L:37:ILE:HA	1:L:41:LYS:CB	2.43	0.48
1:P:130:GLN:CD	1:U:150:ASN:ND2	2.72	0.48
1:R:143:LEU:C	1:R:156:ASP:OD1	2.57	0.48
1:S:31:LEU:CD2	1:S:469:TYR:CD1	2.66	0.48
1:T:143:LEU:C	1:T:156:ASP:OD1	2.57	0.48
1:T:186:THR:CB	1:T:289:THR:C	2.81	0.48
1:W:318:LYS:HE2	1:W:330:GLU:OE2	2.07	0.48
1:A:469:TYR:CE2	1:L:501:LEU:CD2	2.90	0.48
1:B:172:LEU:HD12	1:B:415:THR:HG21	1.94	0.48
1:D:143:LEU:C	1:D:156:ASP:OD1	2.57	0.48
1:E:37:ILE:HA	1:E:41:LYS:CB	2.43	0.48
1:F:470:ALA:HB1	1:L:14:GLN:HG3	1.96	0.48
1:G:31:LEU:CD2	1:G:469:TYR:CD1	2.67	0.48
1:G:35:LEU:HD21	1:R:5:ASN:HD21	1.68	0.48
1:G:143:LEU:C	1:G:156:ASP:OD1	2.57	0.48
1:H:485:ALA:HB1	1:N:505:ARG:CD	2.44	0.48
1:H:487:THR:HG21	1:M:500:VAL:HA	1.96	0.48
1:I:157:ILE:HG22	1:I:158:ASP:N	2.27	0.48
1:I:405:PRO:C	1:I:406:GLU:HG3	2.38	0.48
1:J:405:PRO:C	1:J:406:GLU:HG3	2.38	0.48
1:K:143:LEU:C	1:K:156:ASP:OD1	2.57	0.48
1:L:143:LEU:C	1:L:156:ASP:OD1	2.57	0.48
1:M:4:ILE:O	1:M:4:ILE:CG2	2.61	0.48
1:M:480:GLN:CD	1:R:492:GLN:NE2	2.71	0.48
1:N:24:LEU:CD1	1:N:476:MET:HG3	2.43	0.48
1:O:37:ILE:HA	1:O:41:LYS:CB	2.43	0.48
1:O:143:LEU:C	1:O:156:ASP:OD1	2.57	0.48
1:O:186:THR:HG22	1:O:290:PRO:C	2.31	0.48
1:P:358:THR:HG23	1:P:360:TYR:CD2	2.43	0.48
1:P:405:PRO:C	1:P:406:GLU:HG3	2.39	0.48
1:Q:81:LEU:HD21	1:Q:162:ILE:HD13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:314:ALA:HB2	1:R:336:LYS:C	2.39	0.48
1:S:180:VAL:CG2	1:S:321:TYR:CE1	2.93	0.48
1:U:92:ARG:NH2	1:U:423:ASP:OD1	2.43	0.48
1:A:178:TYR:HD2	1:A:378:ASP:C	2.21	0.48
1:B:178:TYR:HD2	1:B:378:ASP:C	2.21	0.48
1:B:480:GLN:OE1	1:G:492:GLN:NE2	2.47	0.48
1:F:74:ALA:CB	1:F:440:GLN:HE21	2.27	0.48
1:G:37:ILE:HA	1:G:41:LYS:CB	2.43	0.48
1:G:481:ILE:HG12	1:M:498:GLN:HB3	1.96	0.48
1:H:47:GLN:OE1	1:H:47:GLN:HA	2.14	0.48
1:H:469:TYR:CE2	1:S:501:LEU:CD2	2.87	0.48
1:H:481:ILE:HG12	1:N:498:GLN:HB3	1.96	0.48
1:J:30:ARG:NE	1:J:41:LYS:HD2	2.25	0.48
1:J:37:ILE:HA	1:J:41:LYS:CB	2.43	0.48
1:J:143:LEU:C	1:J:156:ASP:OD1	2.57	0.48
1:L:28:ILE:HG12	1:Q:489:VAL:HG13	1.96	0.48
1:M:24:LEU:CD1	1:M:476:MET:HG3	2.43	0.48
1:M:47:GLN:OE1	1:M:47:GLN:HA	2.14	0.48
1:M:92:ARG:NH2	1:M:423:ASP:OD1	2.43	0.48
1:M:143:LEU:C	1:M:156:ASP:OD1	2.57	0.48
1:N:47:GLN:OE1	1:N:47:GLN:HA	2.14	0.48
1:N:178:TYR:HD2	1:N:378:ASP:C	2.21	0.48
1:N:180:VAL:CG2	1:N:321:TYR:CE1	2.93	0.48
1:O:178:TYR:HD2	1:O:378:ASP:C	2.21	0.48
1:Q:30:ARG:NE	1:Q:41:LYS:HD2	2.25	0.48
1:R:4:ILE:O	1:R:4:ILE:CG2	2.61	0.48
1:R:37:ILE:HA	1:R:41:LYS:CB	2.43	0.48
1:S:47:GLN:OE1	1:S:47:GLN:HA	2.14	0.48
1:S:360:TYR:CE1	1:S:386:ILE:HD13	2.47	0.48
1:T:38:ASN:H	1:T:41:LYS:CG	2.26	0.48
1:W:172:LEU:HD12	1:W:415:THR:HG21	1.95	0.48
1:A:4:ILE:O	1:A:4:ILE:CG2	2.61	0.47
1:A:143:LEU:C	1:A:156:ASP:OD1	2.57	0.47
1:A:360:TYR:CE1	1:A:386:ILE:HD13	2.47	0.47
1:A:386:ILE:CD1	1:A:401:PHE:CZ	2.95	0.47
1:B:386:ILE:CD1	1:B:401:PHE:CZ	2.95	0.47
1:C:4:ILE:O	1:C:4:ILE:CG2	2.61	0.47
1:C:24:LEU:CD1	1:C:476:MET:HG3	2.43	0.47
1:F:172:LEU:HD12	1:F:415:THR:HG21	1.94	0.47
1:F:318:LYS:HE2	1:F:330:GLU:OE2	2.07	0.47
1:G:78:GLU:OE2	1:R:39:SER:OG	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:178:TYR:HD2	1:H:378:ASP:C	2.21	0.47
1:K:92:ARG:NH2	1:K:423:ASP:OD1	2.43	0.47
1:N:186:THR:HG22	1:N:290:PRO:C	2.31	0.47
1:N:481:ILE:HD11	1:T:498:GLN:HB3	1.96	0.47
1:O:24:LEU:CD1	1:O:476:MET:HG3	2.43	0.47
1:P:314:ALA:HB2	1:P:336:LYS:C	2.39	0.47
1:Q:4:ILE:O	1:Q:4:ILE:CG2	2.61	0.47
1:Q:24:LEU:CD1	1:Q:476:MET:HG3	2.43	0.47
1:Q:143:LEU:C	1:Q:156:ASP:OD1	2.57	0.47
1:R:24:LEU:CD1	1:R:476:MET:HG3	2.43	0.47
1:R:172:LEU:HD12	1:R:415:THR:HG21	1.95	0.47
1:R:178:TYR:HD2	1:R:378:ASP:C	2.21	0.47
1:U:143:LEU:C	1:U:156:ASP:OD1	2.57	0.47
1:W:373:GLN:C	1:W:383:VAL:H	2.22	0.47
1:A:24:LEU:CD1	1:A:476:MET:HG3	2.43	0.47
1:A:35:LEU:CD2	1:L:5:ASN:HD22	2.21	0.47
1:A:78:GLU:OE2	1:L:39:SER:OG	2.32	0.47
1:C:78:GLU:OE2	1:N:39:SER:OG	2.31	0.47
1:F:178:TYR:HD2	1:F:378:ASP:C	2.21	0.47
1:G:4:ILE:O	1:G:4:ILE:CG2	2.61	0.47
1:G:480:GLN:OE1	1:L:492:GLN:NE2	2.47	0.47
1:I:38:ASN:H	1:I:41:LYS:CG	2.25	0.47
1:I:314:ALA:HB2	1:I:336:LYS:C	2.39	0.47
1:N:143:LEU:C	1:N:156:ASP:OD1	2.57	0.47
1:O:31:LEU:CD2	1:O:469:TYR:CD1	2.67	0.47
1:P:28:ILE:HG12	1:U:489:VAL:HG13	1.96	0.47
1:P:373:GLN:C	1:P:383:VAL:H	2.22	0.47
1:R:47:GLN:HA	1:R:47:GLN:OE1	2.14	0.47
1:T:178:TYR:CE2	1:T:378:ASP:HB3	2.48	0.47
1:U:373:GLN:C	1:U:383:VAL:H	2.22	0.47
1:W:38:ASN:H	1:W:41:LYS:CG	2.26	0.47
1:W:45:ALA:O	1:W:49:ILE:CB	2.60	0.47
1:F:81:LEU:HD13	1:F:432:LEU:HD22	1.92	0.47
1:F:480:GLN:CD	1:K:492:GLN:NE2	2.72	0.47
1:F:481:ILE:HD11	1:L:498:GLN:HB3	1.96	0.47
1:G:24:LEU:CD1	1:G:476:MET:HG3	2.43	0.47
1:G:172:LEU:HD12	1:G:415:THR:HG21	1.94	0.47
1:G:481:ILE:HD11	1:M:498:GLN:HB3	1.96	0.47
1:H:481:ILE:HD11	1:N:498:GLN:HB3	1.97	0.47
1:I:143:LEU:C	1:I:156:ASP:OD1	2.57	0.47
1:J:38:ASN:H	1:J:41:LYS:CG	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:469:TYR:CE2	1:W:501:LEU:CD2	2.90	0.47
1:L:360:TYR:CE1	1:L:386:ILE:HD13	2.47	0.47
1:N:485:ALA:HB1	1:T:505:ARG:CD	2.44	0.47
1:P:92:ARG:NH2	1:P:423:ASP:OD1	2.43	0.47
1:P:143:LEU:C	1:P:156:ASP:OD1	2.57	0.47
1:Q:180:VAL:CG2	1:Q:321:TYR:CE1	2.93	0.47
1:Q:314:ALA:HB2	1:Q:336:LYS:C	2.39	0.47
1:A:401:PHE:CE1	1:A:407:LEU:HD11	2.36	0.47
1:B:143:LEU:C	1:B:156:ASP:OD1	2.57	0.47
1:C:74:ALA:CB	1:C:440:GLN:HE21	2.27	0.47
1:D:45:ALA:O	1:D:49:ILE:CB	2.60	0.47
1:H:24:LEU:CD1	1:H:476:MET:HG3	2.43	0.47
1:H:92:ARG:NH2	1:H:423:ASP:OD1	2.43	0.47
1:H:143:LEU:C	1:H:156:ASP:OD1	2.57	0.47
1:H:360:TYR:CE1	1:H:386:ILE:CG1	2.82	0.47
1:H:405:PRO:C	1:H:406:GLU:HG3	2.39	0.47
1:I:24:LEU:CD1	1:I:476:MET:HG3	2.43	0.47
1:L:4:ILE:O	1:L:4:ILE:CG2	2.61	0.47
1:M:178:TYR:HD2	1:M:378:ASP:C	2.21	0.47
1:M:481:ILE:HD11	1:S:498:GLN:HB3	1.96	0.47
1:O:373:GLN:C	1:O:383:VAL:H	2.22	0.47
1:Q:172:LEU:HD12	1:Q:415:THR:HG21	1.94	0.47
1:Q:480:GLN:OE1	1:W:492:GLN:NE2	2.48	0.47
1:W:178:TYR:CE2	1:W:378:ASP:HB3	2.48	0.47
1:W:180:VAL:CG2	1:W:321:TYR:CE1	2.93	0.47
1:A:130:GLN:CD	1:F:150:ASN:ND2	2.71	0.47
1:C:37:ILE:HG12	1:C:465:GLU:HG2	1.97	0.47
1:C:47:GLN:OE1	1:C:47:GLN:HA	2.14	0.47
1:F:485:ALA:CB	1:L:505:ARG:CD	2.93	0.47
1:G:35:LEU:HD23	1:R:5:ASN:HD22	1.80	0.47
1:G:178:TYR:HD2	1:G:378:ASP:C	2.21	0.47
1:G:314:ALA:HB2	1:G:336:LYS:C	2.39	0.47
1:I:430:ASP:OD2	1:T:51:ASN:CG	2.57	0.47
1:I:480:GLN:CD	1:N:492:GLN:NE2	2.72	0.47
1:J:358:THR:HG23	1:J:360:TYR:CD2	2.43	0.47
1:J:373:GLN:C	1:J:383:VAL:H	2.22	0.47
1:K:373:GLN:C	1:K:383:VAL:H	2.22	0.47
1:L:24:LEU:CD1	1:L:476:MET:HG3	2.43	0.47
1:L:74:ALA:CB	1:L:440:GLN:HE21	2.27	0.47
1:P:31:LEU:CD2	1:P:469:TYR:CD1	2.67	0.47
1:P:47:GLN:OE1	1:P:47:GLN:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:74:ALA:CB	1:R:440:GLN:HE21	2.27	0.47
1:T:373:GLN:C	1:T:383:VAL:H	2.22	0.47
1:U:47:GLN:OE1	1:U:47:GLN:HA	2.14	0.47
1:U:74:ALA:CB	1:U:440:GLN:HE21	2.27	0.47
1:W:47:GLN:OE1	1:W:47:GLN:HA	2.14	0.47
1:B:4:ILE:O	1:B:4:ILE:CG2	2.61	0.47
1:B:37:ILE:HG12	1:B:465:GLU:HG2	1.97	0.47
1:C:143:LEU:C	1:C:156:ASP:OD1	2.57	0.47
1:C:358:THR:HG23	1:C:360:TYR:CD2	2.43	0.47
1:D:430:ASP:OD2	1:O:51:ASN:CG	2.58	0.47
1:E:28:ILE:HG12	1:J:489:VAL:HG13	1.97	0.47
1:E:373:GLN:C	1:E:383:VAL:H	2.22	0.47
1:F:4:ILE:O	1:F:4:ILE:CG2	2.61	0.47
1:G:430:ASP:OD2	1:R:51:ASN:CG	2.58	0.47
1:H:401:PHE:CE1	1:H:407:LEU:HD11	2.36	0.47
1:J:74:ALA:CB	1:J:440:GLN:HE21	2.27	0.47
1:L:178:TYR:HD2	1:L:378:ASP:C	2.21	0.47
1:M:37:ILE:HG12	1:M:465:GLU:HG2	1.97	0.47
1:M:432:LEU:CD2	1:M:432:LEU:C	2.85	0.47
1:M:485:ALA:HB1	1:S:505:ARG:CD	2.45	0.47
1:N:37:ILE:HG12	1:N:465:GLU:HG2	1.97	0.47
1:S:24:LEU:CD1	1:S:476:MET:HG3	2.43	0.47
1:A:74:ALA:CB	1:A:440:GLN:HE21	2.27	0.47
1:A:314:ALA:HB2	1:A:336:LYS:C	2.39	0.47
1:A:419:LEU:O	1:A:422:ILE:N	2.48	0.47
1:D:74:ALA:CB	1:D:440:GLN:HE21	2.27	0.47
1:D:78:GLU:OE2	1:O:39:SER:OG	2.32	0.47
1:D:81:LEU:HD13	1:D:433:ARG:CG	2.45	0.47
1:D:373:GLN:C	1:D:383:VAL:H	2.22	0.47
1:D:480:GLN:OE1	1:I:492:GLN:NE2	2.48	0.47
1:E:81:LEU:HD13	1:E:433:ARG:CG	2.45	0.47
1:F:36:ARG:N	1:F:465:GLU:O	2.48	0.47
1:F:186:THR:HG22	1:F:290:PRO:C	2.31	0.47
1:F:466:ASP:OD1	1:Q:5:ASN:HB3	2.14	0.47
1:G:47:GLN:HA	1:G:47:GLN:OE1	2.14	0.47
1:G:74:ALA:CB	1:G:440:GLN:HE21	2.27	0.47
1:G:419:LEU:O	1:G:422:ILE:N	2.48	0.47
1:H:78:GLU:OE2	1:S:39:SER:OG	2.31	0.47
1:H:358:THR:HG23	1:H:360:TYR:CD2	2.43	0.47
1:I:47:GLN:OE1	1:I:47:GLN:HA	2.14	0.47
1:I:81:LEU:HD13	1:I:433:ARG:CG	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4:ILE:O	1:J:4:ILE:CG2	2.61	0.47
1:J:485:ALA:HB1	1:P:505:ARG:CD	2.45	0.47
1:K:47:GLN:OE1	1:K:47:GLN:HA	2.14	0.47
1:K:430:ASP:OD2	1:W:51:ASN:CG	2.58	0.47
1:L:47:GLN:OE1	1:L:47:GLN:HA	2.14	0.47
1:L:318:LYS:HE2	1:L:330:GLU:OE2	2.07	0.47
1:L:480:GLN:CD	1:Q:492:GLN:NE2	2.71	0.47
1:M:74:ALA:CB	1:M:440:GLN:HE21	2.27	0.47
1:M:302:ILE:HG12	1:M:311:ALA:HB3	1.97	0.47
1:O:45:ALA:O	1:O:49:ILE:CB	2.60	0.47
1:P:81:LEU:HD13	1:P:433:ARG:CG	2.45	0.47
1:Q:74:ALA:CB	1:Q:440:GLN:HE21	2.27	0.47
1:Q:373:GLN:C	1:Q:383:VAL:H	2.22	0.47
1:R:358:THR:HG23	1:R:360:TYR:CD2	2.43	0.47
1:R:463:ARG:CG	1:R:463:ARG:NH1	2.73	0.47
1:S:74:ALA:CB	1:S:440:GLN:HE21	2.27	0.47
1:S:432:LEU:CD2	1:S:432:LEU:C	2.85	0.47
1:T:74:ALA:CB	1:T:440:GLN:HE21	2.27	0.47
1:T:180:VAL:HG23	1:T:321:TYR:HD1	1.61	0.47
1:U:81:LEU:HD13	1:U:433:ARG:CG	2.45	0.47
1:W:143:LEU:C	1:W:156:ASP:OD1	2.57	0.47
1:W:186:THR:CB	1:W:289:THR:C	2.82	0.47
1:B:74:ALA:CB	1:B:440:GLN:HE21	2.27	0.47
1:B:145:ILE:O	1:B:154:THR:CA	2.39	0.47
1:B:432:LEU:CD2	1:B:432:LEU:C	2.85	0.47
1:F:373:GLN:C	1:F:383:VAL:H	2.22	0.47
1:H:302:ILE:HG12	1:H:311:ALA:HB3	1.97	0.47
1:H:432:LEU:CD2	1:H:432:LEU:C	2.86	0.47
1:I:4:ILE:O	1:I:4:ILE:CG2	2.61	0.47
1:I:373:GLN:C	1:I:383:VAL:H	2.22	0.47
1:I:419:LEU:O	1:I:422:ILE:N	2.48	0.47
1:K:417:ASN:ND2	1:K:420:GLN:OE1	2.44	0.47
1:L:130:GLN:CD	1:Q:150:ASN:ND2	2.72	0.47
1:L:172:LEU:HD12	1:L:415:THR:HG21	1.95	0.47
1:N:302:ILE:HG12	1:N:311:ALA:HB3	1.97	0.47
1:O:360:TYR:CE1	1:O:386:ILE:HD11	2.47	0.47
1:Q:47:GLN:OE1	1:Q:47:GLN:HA	2.14	0.47
1:S:302:ILE:HG12	1:S:311:ALA:HB3	1.97	0.47
1:S:314:ALA:HB2	1:S:336:LYS:C	2.39	0.47
1:T:417:ASN:ND2	1:T:420:GLN:OE1	2.44	0.47
1:W:358:THR:HG23	1:W:360:TYR:CD2	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:47:GLN:OE1	1:B:47:GLN:HA	2.14	0.47
1:B:130:GLN:CD	1:G:150:ASN:ND2	2.73	0.47
1:B:130:GLN:OE1	1:G:150:ASN:ND2	2.37	0.47
1:B:131:PHE:CZ	1:G:460:VAL:HG21	2.50	0.47
1:C:130:GLN:CD	1:H:150:ASN:ND2	2.72	0.47
1:C:419:LEU:O	1:C:422:ILE:N	2.48	0.47
1:E:466:ASP:OD1	1:P:5:ASN:HB3	2.15	0.47
1:F:180:VAL:HG23	1:F:321:TYR:HD1	1.61	0.47
1:H:74:ALA:CB	1:H:440:GLN:HE21	2.27	0.47
1:J:81:LEU:HD13	1:J:433:ARG:CG	2.45	0.47
1:J:430:ASP:OD2	1:U:51:ASN:CG	2.58	0.47
1:K:78:GLU:OE2	1:W:39:SER:OG	2.32	0.47
1:L:373:GLN:C	1:L:383:VAL:H	2.22	0.47
1:P:186:THR:CB	1:P:289:THR:C	2.81	0.47
1:Q:28:ILE:HG12	1:W:489:VAL:HG13	1.97	0.47
1:T:360:TYR:CE1	1:T:386:ILE:HD13	2.47	0.47
1:A:373:GLN:C	1:A:383:VAL:H	2.22	0.47
1:B:37:ILE:CG1	1:B:465:GLU:HG2	2.45	0.47
1:B:302:ILE:HG12	1:B:311:ALA:HB3	1.97	0.47
1:B:314:ALA:HB2	1:B:336:LYS:C	2.39	0.47
1:C:38:ASN:HD22	1:C:41:LYS:NZ	1.90	0.47
1:C:432:LEU:CD2	1:C:432:LEU:C	2.85	0.47
1:D:480:GLN:CD	1:I:492:GLN:NE2	2.73	0.47
1:G:37:ILE:HG12	1:G:465:GLU:HG2	1.97	0.47
1:G:186:THR:HG22	1:G:290:PRO:C	2.31	0.47
1:K:4:ILE:O	1:K:4:ILE:CG2	2.61	0.47
1:K:81:LEU:HD13	1:K:433:ARG:CG	2.45	0.47
1:K:318:LYS:HE2	1:K:330:GLU:OE2	2.06	0.47
1:M:180:VAL:HG23	1:M:321:TYR:HD1	1.61	0.47
1:Q:360:TYR:CE1	1:Q:386:ILE:HD13	2.47	0.47
1:Q:480:GLN:CD	1:W:492:GLN:NE2	2.73	0.47
1:R:302:ILE:HG12	1:R:311:ALA:HB3	1.97	0.47
1:T:37:ILE:HG12	1:T:465:GLU:HG2	1.97	0.47
1:T:47:GLN:OE1	1:T:47:GLN:HA	2.14	0.47
1:W:81:LEU:HD13	1:W:433:ARG:CG	2.45	0.47
1:B:419:LEU:O	1:B:422:ILE:N	2.48	0.46
1:C:107:ASP:OD1	1:S:49:ILE:HD11	2.14	0.46
1:C:360:TYR:CE1	1:C:386:ILE:HD13	2.47	0.46
1:C:480:GLN:CD	1:H:492:GLN:NE2	2.71	0.46
1:F:78:GLU:OE2	1:Q:39:SER:OG	2.33	0.46
1:F:107:ASP:OD1	1:W:49:ILE:HD11	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:485:ALA:HA	1:L:505:ARG:NE	2.29	0.46
1:G:302:ILE:HG12	1:G:311:ALA:HB3	1.97	0.46
1:H:4:ILE:O	1:H:4:ILE:CG2	2.61	0.46
1:I:186:THR:HG22	1:I:290:PRO:HA	0.49	0.46
1:I:417:ASN:ND2	1:I:420:GLN:OE1	2.44	0.46
1:I:469:TYR:CE2	1:T:501:LEU:CD2	2.89	0.46
1:K:74:ALA:CB	1:K:440:GLN:HE21	2.27	0.46
1:K:145:ILE:O	1:K:154:THR:CA	2.39	0.46
1:M:37:ILE:CG1	1:M:465:GLU:HG2	2.46	0.46
1:M:463:ARG:CG	1:M:463:ARG:NH1	2.73	0.46
1:S:143:LEU:C	1:S:156:ASP:OD1	2.57	0.46
1:T:81:LEU:HD13	1:T:433:ARG:CG	2.45	0.46
1:W:81:LEU:HD13	1:W:432:LEU:HD22	1.92	0.46
1:C:107:ASP:CG	1:S:49:ILE:HD11	2.40	0.46
1:C:302:ILE:HG12	1:C:311:ALA:HB3	1.97	0.46
1:D:35:LEU:HD23	1:O:5:ASN:HD22	1.80	0.46
1:E:81:LEU:HD23	1:E:81:LEU:HA	1.69	0.46
1:F:180:VAL:CG2	1:F:321:TYR:CE1	2.93	0.46
1:F:386:ILE:CD1	1:F:401:PHE:CZ	2.95	0.46
1:G:145:ILE:O	1:G:154:THR:CA	2.39	0.46
1:G:373:GLN:C	1:G:383:VAL:H	2.22	0.46
1:G:432:LEU:CD2	1:G:432:LEU:C	2.85	0.46
1:G:485:ALA:HA	1:M:505:ARG:NE	2.31	0.46
1:H:131:PHE:CZ	1:M:460:VAL:HG21	2.50	0.46
1:H:419:LEU:O	1:H:422:ILE:N	2.48	0.46
1:I:37:ILE:HG12	1:I:465:GLU:HG2	1.97	0.46
1:I:302:ILE:HG12	1:I:311:ALA:HB3	1.97	0.46
1:J:78:GLU:OE2	1:U:39:SER:OG	2.32	0.46
1:J:314:ALA:HB2	1:J:336:LYS:C	2.39	0.46
1:J:481:ILE:HD11	1:P:498:GLN:HB3	1.97	0.46
1:M:28:ILE:HG12	1:R:489:VAL:HG13	1.96	0.46
1:N:186:THR:CB	1:N:289:THR:C	2.82	0.46
1:N:373:GLN:C	1:N:383:VAL:H	2.22	0.46
1:N:419:LEU:O	1:N:422:ILE:N	2.48	0.46
1:O:74:ALA:CB	1:O:440:GLN:HE21	2.27	0.46
1:R:37:ILE:HG12	1:R:465:GLU:HG2	1.97	0.46
1:T:302:ILE:HG12	1:T:311:ALA:HB3	1.97	0.46
1:U:36:ARG:N	1:U:465:GLU:O	2.48	0.46
1:U:318:LYS:HE2	1:U:330:GLU:OE2	2.07	0.46
1:U:386:ILE:CD1	1:U:401:PHE:CZ	2.96	0.46
1:W:186:THR:HG22	1:W:290:PRO:C	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:45:ALA:O	1:A:49:ILE:CB	2.60	0.46
1:A:81:LEU:HD13	1:A:432:LEU:HD22	1.92	0.46
1:A:382:GLU:N	1:A:382:GLU:OE1	2.49	0.46
1:B:38:ASN:HD22	1:B:41:LYS:NZ	1.90	0.46
1:C:360:TYR:CE1	1:C:386:ILE:CG1	2.82	0.46
1:E:130:GLN:OE1	1:J:150:ASN:ND2	2.36	0.46
1:F:131:PHE:CZ	1:K:460:VAL:HG21	2.51	0.46
1:F:155:ILE:CG2	1:F:443:PHE:CE1	2.99	0.46
1:H:466:ASP:CG	1:S:5:ASN:HB3	2.40	0.46
1:J:81:LEU:HD13	1:J:432:LEU:HD22	1.92	0.46
1:J:417:ASN:ND2	1:J:420:GLN:OE1	2.44	0.46
1:L:36:ARG:N	1:L:465:GLU:O	2.48	0.46
1:M:358:THR:HG23	1:M:360:TYR:CD2	2.43	0.46
1:N:81:LEU:HD13	1:N:433:ARG:CG	2.45	0.46
1:N:432:LEU:CD2	1:N:432:LEU:C	2.86	0.46
1:O:47:GLN:HA	1:O:47:GLN:OE1	2.14	0.46
1:P:178:TYR:CE2	1:P:378:ASP:HB3	2.49	0.46
1:Q:307:ASP:OD1	1:Q:309:THR:OG1	2.32	0.46
1:R:432:LEU:CD2	1:R:432:LEU:C	2.85	0.46
1:T:186:THR:HG22	1:T:290:PRO:C	2.31	0.46
1:T:360:TYR:CE1	1:T:386:ILE:HD11	2.47	0.46
1:W:74:ALA:CB	1:W:440:GLN:HE21	2.27	0.46
1:W:417:ASN:ND2	1:W:420:GLN:OE1	2.44	0.46
1:A:481:ILE:HG12	1:G:498:GLN:HB3	1.98	0.46
1:B:373:GLN:C	1:B:383:VAL:H	2.22	0.46
1:B:466:ASP:OD1	1:M:5:ASN:HB3	2.16	0.46
1:E:130:GLN:CD	1:J:150:ASN:ND2	2.71	0.46
1:E:382:GLU:OE1	1:E:382:GLU:N	2.49	0.46
1:E:463:ARG:CG	1:E:463:ARG:NH1	2.73	0.46
1:F:107:ASP:CG	1:W:49:ILE:HD11	2.41	0.46
1:I:37:ILE:CG1	1:I:465:GLU:HG2	2.46	0.46
1:I:74:ALA:CB	1:I:440:GLN:HE21	2.27	0.46
1:I:173:ASN:CG	1:I:411:ALA:HB3	2.24	0.46
1:K:186:THR:HG22	1:K:290:PRO:C	2.31	0.46
1:K:485:ALA:HB1	1:Q:505:ARG:CD	2.46	0.46
1:L:131:PHE:CZ	1:Q:460:VAL:HG21	2.51	0.46
1:M:81:LEU:HD13	1:M:433:ARG:CG	2.45	0.46
1:M:419:LEU:O	1:M:422:ILE:N	2.48	0.46
1:N:37:ILE:CG1	1:N:465:GLU:HG2	2.46	0.46
1:N:74:ALA:CB	1:N:440:GLN:HE21	2.27	0.46
1:P:131:PHE:CZ	1:U:460:VAL:HG21	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:340:LYS:HD2	1:P:342:TYR:OH	2.16	0.46
1:Q:81:LEU:HD23	1:Q:81:LEU:HA	1.69	0.46
1:Q:340:LYS:HD2	1:Q:342:TYR:OH	2.16	0.46
1:T:37:ILE:CG1	1:T:465:GLU:HG2	2.46	0.46
1:U:186:THR:CB	1:U:289:THR:C	2.81	0.46
1:W:155:ILE:CG2	1:W:443:PHE:CE1	2.99	0.46
1:A:37:ILE:CG1	1:A:465:GLU:HG2	2.46	0.46
1:C:37:ILE:CG1	1:C:465:GLU:HG2	2.46	0.46
1:C:45:ALA:O	1:C:49:ILE:CB	2.60	0.46
1:C:314:ALA:HB2	1:C:336:LYS:C	2.39	0.46
1:D:35:LEU:CD2	1:O:5:ASN:HD22	2.21	0.46
1:D:37:ILE:HG12	1:D:465:GLU:HG2	1.97	0.46
1:D:47:GLN:OE1	1:D:47:GLN:HA	2.14	0.46
1:E:180:VAL:CG2	1:E:321:TYR:CE1	2.93	0.46
1:E:430:ASP:OD2	1:P:51:ASN:CG	2.59	0.46
1:F:186:THR:CB	1:F:289:THR:C	2.81	0.46
1:H:4:ILE:HG12	1:H:501:LEU:CD1	2.04	0.46
1:H:36:ARG:N	1:H:465:GLU:O	2.48	0.46
1:H:430:ASP:OD2	1:S:51:ASN:CG	2.58	0.46
1:I:36:ARG:N	1:I:465:GLU:O	2.48	0.46
1:J:36:ARG:N	1:J:465:GLU:O	2.48	0.46
1:J:186:THR:CB	1:J:289:THR:C	2.82	0.46
1:J:480:GLN:OE1	1:O:492:GLN:NE2	2.48	0.46
1:K:131:PHE:CZ	1:P:460:VAL:HG21	2.50	0.46
1:K:340:LYS:HD2	1:K:342:TYR:OH	2.16	0.46
1:L:155:ILE:CG2	1:L:443:PHE:CE1	2.99	0.46
1:L:302:ILE:HG12	1:L:311:ALA:HB3	1.97	0.46
1:L:340:LYS:HD2	1:L:342:TYR:OH	2.16	0.46
1:M:45:ALA:O	1:M:49:ILE:CB	2.60	0.46
1:O:81:LEU:HD13	1:O:433:ARG:CG	2.45	0.46
1:O:480:GLN:CD	1:T:492:GLN:NE2	2.74	0.46
1:P:318:LYS:HE2	1:P:330:GLU:OE2	2.07	0.46
1:R:83:GLU:CD	1:R:125:VAL:HG21	2.41	0.46
1:R:186:THR:CB	1:R:289:THR:C	2.82	0.46
1:R:373:GLN:C	1:R:383:VAL:H	2.22	0.46
1:R:419:LEU:O	1:R:422:ILE:N	2.48	0.46
1:W:145:ILE:HG22	1:W:147:VAL:CG2	2.32	0.46
1:W:382:GLU:OE1	1:W:382:GLU:N	2.49	0.46
1:A:463:ARG:NH1	1:A:463:ARG:CG	2.73	0.46
1:B:45:ALA:O	1:B:49:ILE:CB	2.60	0.46
1:B:81:LEU:HD13	1:B:433:ARG:CG	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:83:GLU:CD	1:B:125:VAL:HG21	2.41	0.46
1:B:480:GLN:CD	1:G:492:GLN:NE2	2.72	0.46
1:D:83:GLU:CD	1:D:125:VAL:HG21	2.41	0.46
1:E:74:ALA:CB	1:E:440:GLN:HE21	2.27	0.46
1:F:178:TYR:CE2	1:F:378:ASP:HB3	2.49	0.46
1:J:178:TYR:CE2	1:J:378:ASP:HB3	2.48	0.46
1:K:155:ILE:CG2	1:K:443:PHE:CE1	2.99	0.46
1:K:360:TYR:CE1	1:K:386:ILE:HD11	2.47	0.46
1:L:37:ILE:CG1	1:L:465:GLU:HG2	2.46	0.46
1:M:480:GLN:NE2	1:R:492:GLN:NE2	2.63	0.46
1:N:178:TYR:CE2	1:N:378:ASP:HB3	2.49	0.46
1:N:496:VAL:CB	1:N:497:PRO:HD3	2.38	0.46
1:P:36:ARG:N	1:P:465:GLU:O	2.48	0.46
1:Q:81:LEU:HD13	1:Q:433:ARG:CG	2.45	0.46
1:S:81:LEU:HD13	1:S:432:LEU:HD22	1.92	0.46
1:S:81:LEU:HA	1:S:81:LEU:HD23	1.69	0.46
1:S:419:LEU:O	1:S:422:ILE:N	2.48	0.46
1:T:419:LEU:O	1:T:422:ILE:N	2.48	0.46
1:U:83:GLU:CD	1:U:125:VAL:HG21	2.41	0.46
1:W:340:LYS:HD2	1:W:342:TYR:OH	2.16	0.46
1:A:131:PHE:CZ	1:F:460:VAL:HG21	2.50	0.46
1:C:36:ARG:N	1:C:465:GLU:O	2.48	0.46
1:C:373:GLN:C	1:C:383:VAL:H	2.22	0.46
1:F:10:SER:HA	1:F:13:THR:HG22	1.98	0.46
1:F:47:GLN:OE1	1:F:47:GLN:HA	2.14	0.46
1:F:382:GLU:OE1	1:F:382:GLU:N	2.49	0.46
1:F:384:VAL:O	1:F:384:VAL:HG12	2.16	0.46
1:G:81:LEU:HD13	1:G:433:ARG:CG	2.45	0.46
1:H:186:THR:CB	1:H:289:THR:C	2.82	0.46
1:J:37:ILE:CG1	1:J:465:GLU:HG2	2.45	0.46
1:J:386:ILE:CD1	1:J:401:PHE:CZ	2.95	0.46
1:L:37:ILE:HG12	1:L:465:GLU:HG2	1.97	0.46
1:L:81:LEU:HD13	1:L:433:ARG:CG	2.45	0.46
1:L:186:THR:CB	1:L:289:THR:C	2.82	0.46
1:N:45:ALA:O	1:N:49:ILE:CB	2.60	0.46
1:N:120:ASN:ND2	1:N:395:LYS:HZ2	2.13	0.46
1:O:314:ALA:CB	1:O:337:ALA:HA	2.24	0.46
1:P:74:ALA:CB	1:P:440:GLN:HE21	2.27	0.46
1:P:155:ILE:CG2	1:P:443:PHE:CE1	2.99	0.46
1:Q:294:SER:OG	1:Q:296:ASP:HB2	2.16	0.46
1:T:314:ALA:HB2	1:T:336:LYS:C	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:10:SER:HA	1:W:13:THR:HG22	1.98	0.46
1:W:37:ILE:CG1	1:W:465:GLU:HG2	2.46	0.46
1:W:294:SER:OG	1:W:296:ASP:HB2	2.16	0.46
1:W:302:ILE:HG12	1:W:311:ALA:HB3	1.97	0.46
1:A:10:SER:HA	1:A:13:THR:HG22	1.98	0.46
1:A:302:ILE:HG12	1:A:311:ALA:HB3	1.97	0.46
1:B:382:GLU:OE1	1:B:382:GLU:N	2.49	0.46
1:C:325:ASN:CG	1:N:133:GLY:O	2.59	0.46
1:D:107:ASP:CG	1:T:49:ILE:HD11	2.41	0.46
1:E:47:GLN:OE1	1:E:47:GLN:HA	2.14	0.46
1:E:155:ILE:CG2	1:E:443:PHE:CE1	2.99	0.46
1:E:382:GLU:HG2	1:E:382:GLU:O	2.16	0.46
1:E:386:ILE:CD1	1:E:401:PHE:CZ	2.95	0.46
1:F:28:ILE:HG12	1:K:489:VAL:HG13	1.98	0.46
1:F:37:ILE:HG12	1:F:465:GLU:HG2	1.97	0.46
1:H:81:LEU:HD13	1:H:433:ARG:CG	2.45	0.46
1:I:155:ILE:CG2	1:I:443:PHE:CE1	2.99	0.46
1:I:325:ASN:CG	1:T:133:GLY:O	2.59	0.46
1:J:47:GLN:HA	1:J:47:GLN:OE1	2.14	0.46
1:J:463:ARG:NH1	1:J:463:ARG:CG	2.73	0.46
1:K:37:ILE:CG1	1:K:465:GLU:HG2	2.46	0.46
1:L:294:SER:OG	1:L:296:ASP:HB2	2.16	0.46
1:M:36:ARG:N	1:M:465:GLU:O	2.48	0.46
1:M:307:ASP:OD1	1:M:309:THR:OG1	2.32	0.46
1:O:37:ILE:HG12	1:O:465:GLU:HG2	1.97	0.46
1:O:302:ILE:HG12	1:O:311:ALA:HB3	1.97	0.46
1:P:37:ILE:CG1	1:P:465:GLU:HG2	2.46	0.46
1:R:155:ILE:CG2	1:R:443:PHE:CE1	2.99	0.46
1:R:382:GLU:OE1	1:R:382:GLU:N	2.49	0.46
1:S:37:ILE:HG12	1:S:465:GLU:HG2	1.97	0.46
1:S:83:GLU:CD	1:S:125:VAL:HG21	2.41	0.46
1:S:373:GLN:C	1:S:383:VAL:H	2.22	0.46
1:U:384:VAL:O	1:U:384:VAL:HG12	2.16	0.46
1:W:384:VAL:O	1:W:384:VAL:HG12	2.16	0.46
1:A:83:GLU:CD	1:A:125:VAL:HG21	2.41	0.46
1:A:155:ILE:CG2	1:A:443:PHE:CE1	2.99	0.46
1:A:340:LYS:HD2	1:A:342:TYR:OH	2.16	0.46
1:A:466:ASP:OD1	1:L:5:ASN:HB3	2.15	0.46
1:B:36:ARG:N	1:B:465:GLU:O	2.48	0.46
1:B:360:TYR:CE1	1:B:386:ILE:CG1	2.82	0.46
1:C:155:ILE:CG2	1:C:443:PHE:CE1	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:178:TYR:CE2	1:D:378:ASP:HB3	2.48	0.46
1:E:37:ILE:CG1	1:E:465:GLU:HG2	2.46	0.46
1:E:107:ASP:OD1	1:U:49:ILE:HD11	2.15	0.46
1:E:131:PHE:CZ	1:J:460:VAL:HG21	2.51	0.46
1:E:186:THR:CB	1:E:289:THR:C	2.82	0.46
1:F:340:LYS:HD2	1:F:342:TYR:OH	2.16	0.46
1:G:83:GLU:CD	1:G:125:VAL:HG21	2.41	0.46
1:G:294:SER:OG	1:G:296:ASP:HB2	2.16	0.46
1:H:37:ILE:CG1	1:H:465:GLU:HG2	2.46	0.46
1:H:480:GLN:OE1	1:M:492:GLN:NE2	2.49	0.46
1:I:130:GLN:CD	1:N:150:ASN:ND2	2.73	0.46
1:I:360:TYR:CE1	1:I:386:ILE:HD13	2.47	0.46
1:J:81:LEU:HD23	1:J:81:LEU:HA	1.69	0.46
1:J:83:GLU:CD	1:J:125:VAL:HG21	2.41	0.46
1:K:10:SER:HA	1:K:13:THR:HG22	1.98	0.46
1:K:83:GLU:CD	1:K:125:VAL:HG21	2.41	0.46
1:M:373:GLN:C	1:M:383:VAL:H	2.22	0.46
1:N:480:GLN:OE1	1:S:492:GLN:NE2	2.48	0.46
1:O:37:ILE:CG1	1:O:465:GLU:HG2	2.46	0.46
1:O:83:GLU:CD	1:O:125:VAL:HG21	2.41	0.46
1:O:131:PHE:CZ	1:T:460:VAL:HG21	2.50	0.46
1:O:186:THR:HG22	1:O:290:PRO:HA	0.49	0.46
1:P:186:THR:HG22	1:P:290:PRO:C	2.31	0.46
1:Q:10:SER:HA	1:Q:13:THR:HG22	1.98	0.46
1:Q:130:GLN:CD	1:W:150:ASN:ND2	2.72	0.46
1:Q:131:PHE:CZ	1:W:460:VAL:HG21	2.51	0.46
1:Q:155:ILE:CG2	1:Q:443:PHE:CE1	2.99	0.46
1:Q:382:GLU:N	1:Q:382:GLU:OE1	2.49	0.46
1:R:401:PHE:CE1	1:R:407:LEU:HD11	2.36	0.46
1:T:294:SER:OG	1:T:296:ASP:HB2	2.16	0.46
1:U:294:SER:OG	1:U:296:ASP:HB2	2.16	0.46
1:U:340:LYS:HD2	1:U:342:TYR:OH	2.16	0.46
1:U:382:GLU:OE1	1:U:382:GLU:N	2.49	0.46
1:U:417:ASN:ND2	1:U:420:GLN:OE1	2.44	0.46
1:A:37:ILE:HG12	1:A:465:GLU:HG2	1.97	0.46
1:A:294:SER:OG	1:A:296:ASP:HB2	2.16	0.46
1:B:78:GLU:OE2	1:M:39:SER:OG	2.32	0.46
1:C:35:LEU:CD2	1:N:5:ASN:HD22	2.21	0.46
1:C:481:ILE:HD11	1:I:498:GLN:HB3	1.98	0.46
1:D:107:ASP:OD1	1:T:49:ILE:HD11	2.16	0.46
1:D:382:GLU:N	1:D:382:GLU:OE1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:481:ILE:HG12	1:J:498:GLN:HB3	1.98	0.46
1:F:37:ILE:CG1	1:F:465:GLU:HG2	2.46	0.46
1:F:360:TYR:CE1	1:F:386:ILE:HD13	2.47	0.46
1:G:382:GLU:OE1	1:G:382:GLU:N	2.49	0.46
1:H:37:ILE:HG12	1:H:465:GLU:HG2	1.97	0.46
1:J:37:ILE:HG12	1:J:465:GLU:HG2	1.97	0.46
1:J:155:ILE:CG2	1:J:443:PHE:CE1	2.99	0.46
1:J:318:LYS:HE3	1:J:330:GLU:CG	2.46	0.46
1:J:325:ASN:CG	1:U:133:GLY:O	2.59	0.46
1:J:382:GLU:HG2	1:J:382:GLU:O	2.16	0.46
1:J:382:GLU:OE1	1:J:382:GLU:N	2.49	0.46
1:J:470:ALA:HB1	1:P:14:GLN:HG3	1.98	0.46
1:K:314:ALA:HB2	1:K:336:LYS:C	2.39	0.46
1:K:382:GLU:OE1	1:K:382:GLU:N	2.49	0.46
1:K:466:ASP:CG	1:W:5:ASN:HB3	2.40	0.46
1:N:155:ILE:CG2	1:N:443:PHE:CE1	2.99	0.46
1:N:294:SER:OG	1:N:296:ASP:HB2	2.16	0.46
1:O:294:SER:OG	1:O:296:ASP:HB2	2.16	0.46
1:P:10:SER:HA	1:P:13:THR:HG22	1.98	0.46
1:Q:302:ILE:HG12	1:Q:311:ALA:HB3	1.97	0.46
1:Q:496:VAL:CB	1:Q:497:PRO:HD3	2.38	0.46
1:R:24:LEU:HD12	1:R:476:MET:HG3	1.98	0.46
1:R:81:LEU:HD13	1:R:433:ARG:CG	2.45	0.46
1:S:81:LEU:HD13	1:S:433:ARG:CG	2.45	0.46
1:S:364:ASP:CB	1:S:402:LYS:NZ	2.62	0.46
1:U:37:ILE:HG12	1:U:465:GLU:HG2	1.97	0.46
1:U:155:ILE:CG2	1:U:443:PHE:CE1	2.99	0.46
1:A:36:ARG:N	1:A:465:GLU:O	2.48	0.45
1:A:384:VAL:HG12	1:A:384:VAL:O	2.16	0.45
1:A:485:ALA:HB1	1:G:505:ARG:CD	2.46	0.45
1:B:294:SER:OG	1:B:296:ASP:HB2	2.16	0.45
1:C:318:LYS:HE3	1:C:330:GLU:CG	2.46	0.45
1:C:340:LYS:HD2	1:C:342:TYR:OH	2.16	0.45
1:C:485:ALA:HB1	1:I:505:ARG:CD	2.47	0.45
1:D:36:ARG:N	1:D:465:GLU:O	2.48	0.45
1:D:37:ILE:CG1	1:D:465:GLU:HG2	2.46	0.45
1:D:302:ILE:HG12	1:D:311:ALA:HB3	1.97	0.45
1:F:81:LEU:HD13	1:F:433:ARG:CG	2.45	0.45
1:F:294:SER:OG	1:F:296:ASP:HB2	2.16	0.45
1:F:382:GLU:O	1:F:382:GLU:HG2	2.16	0.45
1:H:4:ILE:CG1	1:H:501:LEU:HD12	2.02	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:373:GLN:C	1:H:383:VAL:H	2.22	0.45
1:I:466:ASP:CG	1:T:5:ASN:HB3	2.42	0.45
1:I:480:GLN:NE2	1:N:492:GLN:NE2	2.62	0.45
1:J:340:LYS:HD2	1:J:342:TYR:OH	2.16	0.45
1:M:186:THR:HG22	1:M:290:PRO:C	2.31	0.45
1:N:364:ASP:CB	1:N:402:LYS:NZ	2.62	0.45
1:O:485:ALA:HB1	1:U:505:ARG:CD	2.46	0.45
1:P:81:LEU:HA	1:P:81:LEU:HD23	1.69	0.45
1:P:294:SER:OG	1:P:296:ASP:HB2	2.16	0.45
1:Q:24:LEU:HD12	1:Q:476:MET:HG3	1.98	0.45
1:Q:37:ILE:CG1	1:Q:465:GLU:HG2	2.46	0.45
1:Q:37:ILE:HG12	1:Q:465:GLU:HG2	1.97	0.45
1:R:37:ILE:CG1	1:R:465:GLU:HG2	2.45	0.45
1:R:340:LYS:HD2	1:R:342:TYR:OH	2.16	0.45
1:S:37:ILE:CG1	1:S:465:GLU:HG2	2.46	0.45
1:S:155:ILE:CG2	1:S:443:PHE:CE1	2.99	0.45
1:S:340:LYS:HD2	1:S:342:TYR:OH	2.16	0.45
1:T:155:ILE:CG2	1:T:443:PHE:CE1	2.99	0.45
1:T:318:LYS:HE3	1:T:330:GLU:CG	2.47	0.45
1:U:37:ILE:CG1	1:U:465:GLU:HG2	2.46	0.45
1:U:314:ALA:HB2	1:U:336:LYS:C	2.39	0.45
1:W:37:ILE:HG12	1:W:465:GLU:HG2	1.97	0.45
1:W:386:ILE:CD1	1:W:401:PHE:CZ	2.95	0.45
1:A:481:ILE:HD11	1:G:498:GLN:HB3	1.98	0.45
1:B:155:ILE:CG2	1:B:443:PHE:CE1	2.99	0.45
1:B:186:THR:CB	1:B:289:THR:C	2.82	0.45
1:B:480:GLN:NE2	1:G:492:GLN:NE2	2.63	0.45
1:D:318:LYS:HE3	1:D:330:GLU:CG	2.46	0.45
1:E:78:GLU:OE2	1:P:39:SER:OG	2.33	0.45
1:G:340:LYS:HD2	1:G:342:TYR:OH	2.16	0.45
1:H:155:ILE:CG2	1:H:443:PHE:CE1	2.99	0.45
1:K:302:ILE:HG12	1:K:311:ALA:HB3	1.97	0.45
1:L:10:SER:HA	1:L:13:THR:HG22	1.98	0.45
1:L:145:ILE:O	1:L:154:THR:CA	2.39	0.45
1:L:145:ILE:HG22	1:L:147:VAL:CG2	2.33	0.45
1:P:318:LYS:HE3	1:P:330:GLU:CG	2.46	0.45
1:P:384:VAL:O	1:P:384:VAL:HG12	2.16	0.45
1:P:481:ILE:HG12	1:W:498:GLN:HB3	1.98	0.45
1:Q:318:LYS:HE3	1:Q:330:GLU:CG	2.46	0.45
1:Q:386:ILE:CD1	1:Q:401:PHE:CZ	2.95	0.45
1:R:294:SER:OG	1:R:296:ASP:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:294:SER:OG	1:S:296:ASP:HB2	2.16	0.45
1:T:340:LYS:HD2	1:T:342:TYR:OH	2.16	0.45
1:T:386:ILE:CD1	1:T:401:PHE:CZ	2.96	0.45
1:W:83:GLU:CD	1:W:125:VAL:HG21	2.41	0.45
1:A:47:GLN:OE1	1:A:47:GLN:HA	2.14	0.45
1:A:382:GLU:O	1:A:382:GLU:HG2	2.16	0.45
1:B:145:ILE:HG22	1:B:147:VAL:CG2	2.32	0.45
1:B:430:ASP:OD2	1:M:51:ASN:CG	2.60	0.45
1:C:35:LEU:HD21	1:N:5:ASN:HD21	1.69	0.45
1:C:81:LEU:HD23	1:C:81:LEU:HA	1.69	0.45
1:C:83:GLU:CD	1:C:125:VAL:HG21	2.41	0.45
1:C:358:THR:CG2	1:C:360:TYR:HD2	2.28	0.45
1:C:386:ILE:CD1	1:C:401:PHE:CZ	2.96	0.45
1:D:358:THR:HG23	1:D:360:TYR:CD2	2.43	0.45
1:E:37:ILE:HG12	1:E:465:GLU:HG2	1.97	0.45
1:E:83:GLU:CD	1:E:125:VAL:HG21	2.41	0.45
1:E:340:LYS:HD2	1:E:342:TYR:OH	2.16	0.45
1:F:302:ILE:HG12	1:F:311:ALA:HB3	1.97	0.45
1:H:463:ARG:NH1	1:H:463:ARG:CG	2.73	0.45
1:I:294:SER:OG	1:I:296:ASP:HB2	2.16	0.45
1:I:318:LYS:HE3	1:I:330:GLU:CG	2.46	0.45
1:I:340:LYS:HD2	1:I:342:TYR:OH	2.16	0.45
1:I:432:LEU:CD2	1:I:432:LEU:C	2.85	0.45
1:J:384:VAL:O	1:J:384:VAL:HG12	2.16	0.45
1:K:186:THR:CB	1:K:289:THR:C	2.82	0.45
1:K:294:SER:OG	1:K:296:ASP:HB2	2.16	0.45
1:K:360:TYR:HE1	1:K:362:ALA:HB2	1.82	0.45
1:K:382:GLU:O	1:K:382:GLU:HG2	2.16	0.45
1:K:401:PHE:CE1	1:K:407:LEU:HD11	2.36	0.45
1:L:384:VAL:HG12	1:L:384:VAL:O	2.16	0.45
1:M:83:GLU:CD	1:M:125:VAL:HG21	2.41	0.45
1:O:155:ILE:CG2	1:O:443:PHE:CE1	2.99	0.45
1:O:340:LYS:HD2	1:O:342:TYR:OH	2.16	0.45
1:O:384:VAL:O	1:O:384:VAL:HG12	2.16	0.45
1:O:386:ILE:CD1	1:O:401:PHE:CZ	2.95	0.45
1:P:382:GLU:OE1	1:P:382:GLU:N	2.49	0.45
1:Q:83:GLU:CD	1:Q:125:VAL:HG21	2.41	0.45
1:T:83:GLU:CD	1:T:125:VAL:HG21	2.41	0.45
1:A:432:LEU:CD2	1:A:432:LEU:C	2.85	0.45
1:A:470:ALA:HB1	1:G:14:GLN:HG3	1.99	0.45
1:B:93:GLU:HG3	1:M:62:GLN:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:358:THR:CG2	1:B:360:TYR:HD2	2.28	0.45
1:B:469:TYR:CE2	1:M:501:LEU:CD2	2.89	0.45
1:C:81:LEU:HD13	1:C:433:ARG:CG	2.45	0.45
1:D:314:ALA:HB2	1:D:336:LYS:C	2.39	0.45
1:E:28:ILE:HG23	1:J:489:VAL:HG11	1.98	0.45
1:E:481:ILE:HG12	1:K:498:GLN:HB3	1.98	0.45
1:F:318:LYS:HE3	1:F:330:GLU:CG	2.46	0.45
1:F:360:TYR:HE1	1:F:362:ALA:HB2	1.82	0.45
1:G:37:ILE:CG1	1:G:465:GLU:HG2	2.46	0.45
1:G:155:ILE:CG2	1:G:443:PHE:CE1	2.99	0.45
1:G:325:ASN:CG	1:R:133:GLY:O	2.60	0.45
1:G:480:GLN:CD	1:L:492:GLN:NE2	2.73	0.45
1:H:35:LEU:CD2	1:S:5:ASN:CG	2.88	0.45
1:H:83:GLU:CD	1:H:125:VAL:HG21	2.41	0.45
1:H:485:ALA:CB	1:N:505:ARG:CD	2.95	0.45
1:I:131:PHE:CZ	1:N:460:VAL:HG21	2.51	0.45
1:J:120:ASN:ND2	1:J:395:LYS:HZ2	2.15	0.45
1:L:24:LEU:HD12	1:L:476:MET:HG3	1.99	0.45
1:M:340:LYS:HD2	1:M:342:TYR:OH	2.16	0.45
1:O:186:THR:CB	1:O:289:THR:C	2.81	0.45
1:O:481:ILE:HD11	1:U:498:GLN:HB3	1.98	0.45
1:P:360:TYR:HE1	1:P:362:ALA:HB2	1.82	0.45
1:R:178:TYR:CE2	1:R:378:ASP:HB3	2.48	0.45
1:S:382:GLU:O	1:S:382:GLU:HG2	2.16	0.45
1:T:432:LEU:CD2	1:T:432:LEU:C	2.85	0.45
1:U:10:SER:HA	1:U:13:THR:HG22	1.98	0.45
1:W:36:ARG:N	1:W:465:GLU:O	2.48	0.45
1:A:81:LEU:HD13	1:A:433:ARG:CG	2.45	0.45
1:B:161:GLN:HB3	1:B:166:THR:OG1	2.17	0.45
1:B:178:TYR:CE2	1:B:378:ASP:HB3	2.48	0.45
1:E:10:SER:HA	1:E:13:THR:HG22	1.98	0.45
1:E:314:ALA:HB2	1:E:336:LYS:C	2.39	0.45
1:F:24:LEU:HD12	1:F:476:MET:HG3	1.98	0.45
1:F:83:GLU:CD	1:F:125:VAL:HG21	2.41	0.45
1:F:130:GLN:OE1	1:K:150:ASN:ND2	2.37	0.45
1:F:307:ASP:OD1	1:F:309:THR:OG1	2.32	0.45
1:G:186:THR:HG22	1:G:290:PRO:HA	0.50	0.45
1:G:470:ALA:HB1	1:M:14:GLN:HG3	1.98	0.45
1:G:485:ALA:CB	1:M:505:ARG:CD	2.93	0.45
1:I:386:ILE:CD1	1:I:401:PHE:CZ	2.95	0.45
1:J:131:PHE:CZ	1:O:460:VAL:HG21	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:294:SER:OG	1:J:296:ASP:HB2	2.16	0.45
1:J:302:ILE:HG12	1:J:311:ALA:HB3	1.97	0.45
1:J:485:ALA:CB	1:P:505:ARG:CD	2.95	0.45
1:K:37:ILE:HG12	1:K:465:GLU:HG2	1.97	0.45
1:K:318:LYS:HE3	1:K:330:GLU:CG	2.46	0.45
1:K:325:ASN:CG	1:W:133:GLY:O	2.59	0.45
1:L:382:GLU:N	1:L:382:GLU:OE1	2.49	0.45
1:M:358:THR:CG2	1:M:360:TYR:HD2	2.28	0.45
1:N:83:GLU:CD	1:N:125:VAL:HG21	2.41	0.45
1:N:318:LYS:HE3	1:N:330:GLU:CG	2.47	0.45
1:O:49:ILE:CG2	1:O:464:ILE:CD1	2.95	0.45
1:O:480:GLN:OE1	1:T:492:GLN:NE2	2.49	0.45
1:P:360:TYR:CE1	1:P:386:ILE:HD11	2.47	0.45
1:P:395:LYS:HD2	1:P:395:LYS:HA	1.80	0.45
1:R:318:LYS:HE2	1:R:330:GLU:OE2	2.07	0.45
1:R:360:TYR:CE1	1:R:386:ILE:HD11	2.47	0.45
1:S:186:THR:HG22	1:S:290:PRO:C	2.31	0.45
1:U:186:THR:HG22	1:U:290:PRO:HA	0.49	0.45
1:A:180:VAL:CG2	1:A:321:TYR:CE1	2.93	0.45
1:B:340:LYS:HD2	1:B:342:TYR:OH	2.16	0.45
1:C:131:PHE:CZ	1:H:460:VAL:HG21	2.52	0.45
1:C:161:GLN:HB3	1:C:166:THR:OG1	2.17	0.45
1:C:382:GLU:OE1	1:C:382:GLU:N	2.49	0.45
1:D:161:GLN:HB3	1:D:166:THR:OG1	2.17	0.45
1:D:386:ILE:CD1	1:D:401:PHE:CZ	2.96	0.45
1:E:384:VAL:O	1:E:384:VAL:HG12	2.16	0.45
1:G:318:LYS:HE3	1:G:330:GLU:CG	2.46	0.45
1:I:35:LEU:HD23	1:T:5:ASN:HD22	1.77	0.45
1:J:358:THR:CG2	1:J:360:TYR:HD2	2.28	0.45
1:J:466:ASP:CG	1:U:5:ASN:HB3	2.42	0.45
1:L:186:THR:HG22	1:L:290:PRO:HA	0.49	0.45
1:L:432:LEU:CD2	1:L:432:LEU:C	2.85	0.45
1:M:155:ILE:CG2	1:M:443:PHE:CE1	2.99	0.45
1:P:481:ILE:HD11	1:W:498:GLN:HB3	1.99	0.45
1:R:36:ARG:N	1:R:465:GLU:O	2.48	0.45
1:S:24:LEU:HD12	1:S:476:MET:HG3	1.98	0.45
1:S:318:LYS:HE3	1:S:330:GLU:CG	2.46	0.45
1:S:382:GLU:OE1	1:S:382:GLU:N	2.49	0.45
1:T:36:ARG:N	1:T:465:GLU:O	2.48	0.45
1:U:302:ILE:HG12	1:U:311:ALA:HB3	1.97	0.45
1:U:318:LYS:HE3	1:U:330:GLU:CG	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:360:TYR:HE1	1:W:362:ALA:HB2	1.82	0.45
1:A:93:GLU:HG3	1:L:62:GLN:CB	2.46	0.45
1:A:430:ASP:OD2	1:L:51:ASN:CG	2.60	0.45
1:B:470:ALA:HB3	1:H:14:GLN:HE21	1.82	0.45
1:D:49:ILE:CG2	1:D:464:ILE:CD1	2.95	0.45
1:D:470:ALA:HB1	1:J:14:GLN:HG3	1.99	0.45
1:E:35:LEU:CD2	1:P:5:ASN:HD22	2.22	0.45
1:E:161:GLN:HB3	1:E:166:THR:OG1	2.17	0.45
1:E:470:ALA:HB1	1:K:14:GLN:HG3	1.99	0.45
1:G:10:SER:HA	1:G:13:THR:HG22	1.98	0.45
1:G:24:LEU:HD12	1:G:476:MET:HG3	1.98	0.45
1:G:384:VAL:O	1:G:384:VAL:HG12	2.16	0.45
1:I:49:ILE:CG2	1:I:464:ILE:CD1	2.95	0.45
1:J:31:LEU:CD2	1:J:469:TYR:CD1	2.67	0.45
1:J:49:ILE:CG2	1:J:464:ILE:CD1	2.95	0.45
1:J:480:GLN:CD	1:O:492:GLN:NE2	2.74	0.45
1:K:24:LEU:HD12	1:K:476:MET:HG3	1.98	0.45
1:L:481:ILE:HD11	1:R:498:GLN:HB3	1.99	0.45
1:M:24:LEU:HD12	1:M:476:MET:HG3	1.98	0.45
1:M:130:GLN:OE1	1:R:150:ASN:ND2	2.35	0.45
1:M:318:LYS:HE3	1:M:330:GLU:CG	2.47	0.45
1:N:340:LYS:HD2	1:N:342:TYR:OH	2.16	0.45
1:N:481:ILE:HG12	1:T:498:GLN:HB3	1.99	0.45
1:O:360:TYR:CD1	1:O:360:TYR:O	2.70	0.45
1:O:382:GLU:O	1:O:382:GLU:HG2	2.16	0.45
1:O:481:ILE:HG12	1:U:498:GLN:HB3	1.98	0.45
1:P:37:ILE:HG12	1:P:465:GLU:HG2	1.97	0.45
1:P:302:ILE:HG12	1:P:311:ALA:HB3	1.97	0.45
1:P:382:GLU:HG2	1:P:382:GLU:O	2.16	0.45
1:Q:318:LYS:HE2	1:Q:330:GLU:OE2	2.07	0.45
1:R:384:VAL:O	1:R:384:VAL:HG12	2.16	0.45
1:S:4:ILE:HD11	1:S:497:PRO:CA	2.44	0.45
1:T:49:ILE:CG2	1:T:464:ILE:CD1	2.95	0.45
1:U:49:ILE:CG2	1:U:464:ILE:CD1	2.95	0.45
1:U:186:THR:HG22	1:U:290:PRO:C	2.31	0.45
1:W:24:LEU:HD12	1:W:476:MET:HG3	1.99	0.45
1:W:382:GLU:O	1:W:382:GLU:HG2	2.16	0.45
1:A:360:TYR:CD1	1:A:360:TYR:O	2.70	0.45
1:A:360:TYR:HE1	1:A:362:ALA:HB2	1.82	0.45
1:B:470:ALA:HB1	1:H:14:GLN:HG3	1.98	0.45
1:C:360:TYR:HE1	1:C:362:ALA:HB2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:294:SER:OG	1:D:296:ASP:HB2	2.16	0.45
1:D:325:ASN:CG	1:O:133:GLY:O	2.60	0.45
1:G:131:PHE:CZ	1:L:460:VAL:HG21	2.51	0.45
1:H:340:LYS:HD2	1:H:342:TYR:OH	2.16	0.45
1:H:360:TYR:O	1:H:360:TYR:CD1	2.70	0.45
1:H:384:VAL:O	1:H:384:VAL:HG12	2.16	0.45
1:H:480:GLN:CD	1:M:492:GLN:NE2	2.74	0.45
1:I:360:TYR:CD1	1:I:360:TYR:O	2.70	0.45
1:J:35:LEU:CD2	1:U:5:ASN:CG	2.90	0.45
1:K:481:ILE:HD11	1:Q:498:GLN:HB3	1.98	0.45
1:L:186:THR:HG22	1:L:290:PRO:C	2.31	0.45
1:M:161:GLN:HB3	1:M:166:THR:OG1	2.17	0.45
1:M:294:SER:OG	1:M:296:ASP:HB2	2.16	0.45
1:N:382:GLU:O	1:N:382:GLU:HG2	2.16	0.45
1:N:384:VAL:O	1:N:384:VAL:HG12	2.16	0.45
1:O:161:GLN:HB3	1:O:166:THR:OG1	2.17	0.45
1:P:161:GLN:HB3	1:P:166:THR:OG1	2.17	0.45
1:Q:81:LEU:HD13	1:Q:432:LEU:HD22	1.92	0.45
1:Q:360:TYR:HE1	1:Q:362:ALA:HB2	1.82	0.45
1:S:36:ARG:N	1:S:465:GLU:O	2.48	0.45
1:T:382:GLU:N	1:T:382:GLU:OE1	2.49	0.45
1:U:360:TYR:CE1	1:U:386:ILE:HD11	2.47	0.45
1:U:360:TYR:O	1:U:360:TYR:CD1	2.70	0.45
1:W:318:LYS:HE3	1:W:330:GLU:CG	2.46	0.45
1:W:360:TYR:CD1	1:W:360:TYR:O	2.70	0.45
1:A:186:THR:HG22	1:A:290:PRO:HA	0.49	0.45
1:A:318:LYS:HE3	1:A:330:GLU:CG	2.47	0.45
1:A:496:VAL:CB	1:A:497:PRO:HD3	2.38	0.45
1:C:28:ILE:HG12	1:H:489:VAL:HG13	1.97	0.45
1:C:93:GLU:HG3	1:N:62:GLN:CB	2.47	0.45
1:C:294:SER:OG	1:C:296:ASP:HB2	2.16	0.45
1:D:131:PHE:CZ	1:I:460:VAL:HG21	2.50	0.45
1:D:155:ILE:CG2	1:D:443:PHE:CE1	2.99	0.45
1:D:318:LYS:HE2	1:D:330:GLU:OE2	2.07	0.45
1:E:36:ARG:N	1:E:465:GLU:O	2.48	0.45
1:E:302:ILE:HG12	1:E:311:ALA:HB3	1.97	0.45
1:F:130:GLN:CD	1:K:150:ASN:ND2	2.73	0.45
1:F:186:THR:HG22	1:F:290:PRO:HA	0.49	0.45
1:G:360:TYR:CD1	1:G:360:TYR:O	2.70	0.45
1:H:382:GLU:OE1	1:H:382:GLU:N	2.49	0.45
1:H:480:GLN:NE2	1:M:492:GLN:NE2	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:382:GLU:N	1:I:382:GLU:OE1	2.49	0.45
1:J:10:SER:HA	1:J:13:THR:HG22	1.98	0.45
1:L:49:ILE:CG2	1:L:464:ILE:CD1	2.95	0.45
1:L:130:GLN:OE1	1:Q:150:ASN:ND2	2.36	0.45
1:L:161:GLN:HB3	1:L:166:THR:OG1	2.17	0.45
1:M:186:THR:HG22	1:M:290:PRO:HA	0.49	0.45
1:M:382:GLU:OE1	1:M:382:GLU:N	2.49	0.45
1:N:161:GLN:HB3	1:N:166:THR:OG1	2.17	0.45
1:N:186:THR:HG22	1:N:290:PRO:HA	0.49	0.45
1:N:358:THR:CG2	1:N:360:TYR:HD2	2.28	0.45
1:P:360:TYR:O	1:P:360:TYR:CD1	2.70	0.45
1:P:386:ILE:CD1	1:P:401:PHE:CZ	2.95	0.45
1:Q:360:TYR:CE1	1:Q:386:ILE:HD11	2.47	0.45
1:U:31:LEU:CD2	1:U:469:TYR:CD1	2.67	0.45
1:A:441:ASN:ND2	1:L:43:ASP:OD1	2.50	0.45
1:B:360:TYR:O	1:B:360:TYR:CD1	2.70	0.45
1:B:481:ILE:HG12	1:H:498:GLN:HB3	1.99	0.45
1:C:469:TYR:CE2	1:N:501:LEU:CD2	2.91	0.45
1:D:145:ILE:O	1:D:154:THR:CA	2.39	0.45
1:E:294:SER:OG	1:E:296:ASP:HB2	2.16	0.45
1:F:161:GLN:HB3	1:F:166:THR:OG1	2.17	0.45
1:F:360:TYR:O	1:F:360:TYR:CD1	2.70	0.45
1:G:321:TYR:CE2	1:G:380:LYS:HE3	2.48	0.45
1:H:294:SER:OG	1:H:296:ASP:HB2	2.16	0.45
1:H:321:TYR:CE2	1:H:380:LYS:HE3	2.48	0.45
1:I:358:THR:HG23	1:I:360:TYR:CD2	2.43	0.45
1:J:28:ILE:HG12	1:O:489:VAL:HG13	1.99	0.45
1:J:360:TYR:O	1:J:360:TYR:CD1	2.70	0.45
1:K:360:TYR:O	1:K:360:TYR:CD1	2.70	0.45
1:K:384:VAL:O	1:K:384:VAL:HG12	2.16	0.45
1:K:470:ALA:HB1	1:Q:14:GLN:HG3	1.99	0.45
1:L:83:GLU:CD	1:L:125:VAL:HG21	2.41	0.45
1:L:360:TYR:CD1	1:L:360:TYR:O	2.70	0.45
1:L:360:TYR:HE1	1:L:362:ALA:HB2	1.82	0.45
1:M:178:TYR:CE2	1:M:378:ASP:HB3	2.49	0.45
1:M:384:VAL:O	1:M:384:VAL:HG12	2.16	0.45
1:N:28:ILE:HG12	1:S:489:VAL:HG13	1.98	0.45
1:N:49:ILE:CG2	1:N:464:ILE:CD1	2.95	0.45
1:N:81:LEU:HD13	1:N:432:LEU:HD22	1.92	0.45
1:P:28:ILE:HG23	1:U:489:VAL:HG11	1.98	0.45
1:P:49:ILE:CG2	1:P:464:ILE:CD1	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:4:ILE:HD11	1:Q:497:PRO:CA	2.44	0.45
1:R:49:ILE:CG2	1:R:464:ILE:CD1	2.95	0.45
1:U:358:THR:CG2	1:U:360:TYR:HD2	2.28	0.45
1:A:24:LEU:HD12	1:A:476:MET:HG3	1.98	0.44
1:B:10:SER:HA	1:B:13:THR:HG22	1.98	0.44
1:C:49:ILE:CG2	1:C:464:ILE:CD1	2.95	0.44
1:C:360:TYR:O	1:C:360:TYR:CD1	2.70	0.44
1:C:480:GLN:NE2	1:H:492:GLN:NE2	2.64	0.44
1:C:481:ILE:HG12	1:I:498:GLN:HB3	1.99	0.44
1:D:340:LYS:HD2	1:D:342:TYR:OH	2.16	0.44
1:D:360:TYR:CD1	1:D:360:TYR:O	2.70	0.44
1:D:360:TYR:HE1	1:D:362:ALA:HB2	1.82	0.44
1:D:382:GLU:O	1:D:382:GLU:HG2	2.16	0.44
1:D:384:VAL:HG12	1:D:384:VAL:O	2.16	0.44
1:E:49:ILE:CG2	1:E:464:ILE:CD1	2.95	0.44
1:F:49:ILE:CG2	1:F:464:ILE:CD1	2.95	0.44
1:G:81:LEU:HD23	1:G:81:LEU:HA	1.69	0.44
1:I:360:TYR:HE1	1:I:362:ALA:HB2	1.82	0.44
1:I:384:VAL:O	1:I:384:VAL:HG12	2.16	0.44
1:J:180:VAL:CG2	1:J:321:TYR:CE1	2.93	0.44
1:L:481:ILE:HG12	1:R:498:GLN:HB3	1.99	0.44
1:M:481:ILE:HG12	1:S:498:GLN:HB3	2.00	0.44
1:N:131:PHE:CZ	1:S:460:VAL:HG21	2.52	0.44
1:N:360:TYR:HE1	1:N:362:ALA:HB2	1.82	0.44
1:O:145:ILE:HG22	1:O:147:VAL:CG2	2.33	0.44
1:P:24:LEU:HD12	1:P:476:MET:HG3	1.98	0.44
1:P:83:GLU:CD	1:P:125:VAL:HG21	2.41	0.44
1:Q:382:GLU:O	1:Q:382:GLU:HG2	2.16	0.44
1:R:186:THR:HG22	1:R:290:PRO:HA	0.49	0.44
1:S:155:ILE:CB	1:S:443:PHE:HE1	2.30	0.44
1:T:384:VAL:HG12	1:T:384:VAL:O	2.16	0.44
1:A:161:GLN:HB3	1:A:166:THR:OG1	2.17	0.44
1:B:31:LEU:CD2	1:B:469:TYR:CD1	2.67	0.44
1:B:186:THR:HG22	1:B:290:PRO:HA	0.49	0.44
1:B:314:ALA:CB	1:B:337:ALA:HA	2.24	0.44
1:C:85:ASN:O	1:C:89:GLN:HG2	2.18	0.44
1:D:10:SER:HA	1:D:13:THR:HG22	1.98	0.44
1:D:85:ASN:O	1:D:89:GLN:HG2	2.17	0.44
1:E:85:ASN:O	1:E:89:GLN:HG2	2.17	0.44
1:F:186:THR:CG2	1:F:289:THR:C	2.91	0.44
1:F:316:LEU:HD11	1:F:333:TYR:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:85:ASN:O	1:H:89:GLN:HG2	2.18	0.44
1:H:360:TYR:HE1	1:H:362:ALA:HB2	1.82	0.44
1:H:470:ALA:HB1	1:N:14:GLN:HG3	1.99	0.44
1:H:485:ALA:HA	1:N:505:ARG:NE	2.31	0.44
1:I:28:ILE:HG12	1:N:489:VAL:HG13	1.98	0.44
1:I:83:GLU:CD	1:I:125:VAL:HG21	2.41	0.44
1:I:186:THR:CG2	1:I:289:THR:C	2.91	0.44
1:I:382:GLU:O	1:I:382:GLU:HG2	2.16	0.44
1:J:85:ASN:O	1:J:89:GLN:HG2	2.18	0.44
1:J:155:ILE:CB	1:J:443:PHE:HE1	2.30	0.44
1:K:35:LEU:CD2	1:W:5:ASN:CG	2.89	0.44
1:L:485:ALA:HB1	1:R:505:ARG:CD	2.47	0.44
1:N:155:ILE:CB	1:N:443:PHE:HE1	2.30	0.44
1:O:145:ILE:O	1:O:154:THR:CA	2.39	0.44
1:O:314:ALA:HB2	1:O:336:LYS:C	2.39	0.44
1:O:318:LYS:HE3	1:O:330:GLU:CG	2.46	0.44
1:O:382:GLU:OE1	1:O:382:GLU:N	2.49	0.44
1:Q:186:THR:HG22	1:Q:290:PRO:HA	0.49	0.44
1:R:10:SER:HA	1:R:13:THR:HG22	1.98	0.44
1:S:384:VAL:O	1:S:384:VAL:HG12	2.16	0.44
1:U:382:GLU:HG2	1:U:382:GLU:O	2.16	0.44
1:A:316:LEU:HD11	1:A:333:TYR:HB3	2.00	0.44
1:B:24:LEU:HD12	1:B:476:MET:HG3	1.98	0.44
1:B:49:ILE:CG2	1:B:464:ILE:CD1	2.95	0.44
1:B:360:TYR:HE1	1:B:362:ALA:HB2	1.82	0.44
1:C:4:ILE:HD11	1:C:497:PRO:CA	2.44	0.44
1:D:485:ALA:HB1	1:J:505:ARG:CD	2.48	0.44
1:E:318:LYS:HE3	1:E:330:GLU:CG	2.47	0.44
1:F:38:ASN:ND2	1:F:41:LYS:NZ	2.53	0.44
1:F:430:ASP:OD2	1:Q:51:ASN:CG	2.59	0.44
1:G:36:ARG:N	1:G:465:GLU:O	2.48	0.44
1:G:85:ASN:O	1:G:89:GLN:HG2	2.18	0.44
1:G:130:GLN:OE1	1:L:150:ASN:ND2	2.39	0.44
1:G:178:TYR:CE2	1:G:378:ASP:HB3	2.48	0.44
1:G:360:TYR:HE1	1:G:362:ALA:HB2	1.82	0.44
1:K:85:ASN:O	1:K:89:GLN:HG2	2.18	0.44
1:L:85:ASN:O	1:L:89:GLN:HG2	2.18	0.44
1:L:186:THR:CG2	1:L:289:THR:C	2.91	0.44
1:L:318:LYS:HE3	1:L:330:GLU:CG	2.46	0.44
1:M:316:LEU:HD11	1:M:333:TYR:HB3	2.00	0.44
1:M:360:TYR:O	1:M:360:TYR:CD1	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:4:ILE:HD11	1:N:497:PRO:CA	2.44	0.44
1:N:360:TYR:O	1:N:360:TYR:CD1	2.70	0.44
1:O:186:THR:CG2	1:O:289:THR:C	2.91	0.44
1:Q:115:ILE:HG21	1:Q:172:LEU:HD23	2.00	0.44
1:Q:155:ILE:CB	1:Q:443:PHE:HE1	2.30	0.44
1:R:316:LEU:HD11	1:R:333:TYR:HB3	2.00	0.44
1:R:360:TYR:CD1	1:R:360:TYR:O	2.70	0.44
1:S:85:ASN:O	1:S:89:GLN:HG2	2.18	0.44
1:S:161:GLN:HB3	1:S:166:THR:OG1	2.17	0.44
1:T:85:ASN:O	1:T:89:GLN:HG2	2.18	0.44
1:T:382:GLU:O	1:T:382:GLU:HG2	2.16	0.44
1:W:405:PRO:O	1:W:406:GLU:CG	2.66	0.44
1:A:358:THR:CG2	1:A:360:TYR:HD2	2.28	0.44
1:B:28:ILE:HG12	1:G:489:VAL:HG13	1.98	0.44
1:C:10:SER:HA	1:C:13:THR:HG22	1.98	0.44
1:C:186:THR:CG2	1:C:289:THR:C	2.91	0.44
1:C:430:ASP:OD1	1:N:51:ASN:ND2	2.51	0.44
1:D:186:THR:HG22	1:D:290:PRO:HA	0.49	0.44
1:F:85:ASN:O	1:F:89:GLN:HG2	2.17	0.44
1:F:115:ILE:HG21	1:F:172:LEU:HD23	2.00	0.44
1:G:173:ASN:H	1:G:415:THR:HG23	1.83	0.44
1:G:316:LEU:HD11	1:G:333:TYR:HB3	2.00	0.44
1:H:318:LYS:HE3	1:H:330:GLU:CG	2.47	0.44
1:I:469:TYR:CB	1:T:501:LEU:CD2	2.95	0.44
1:K:173:ASN:H	1:K:415:THR:HG23	1.83	0.44
1:L:115:ILE:HG21	1:L:172:LEU:HD23	2.00	0.44
1:L:178:TYR:CE2	1:L:378:ASP:HB3	2.48	0.44
1:L:316:LEU:HD11	1:L:333:TYR:HB3	2.00	0.44
1:M:131:PHE:CZ	1:R:460:VAL:HG21	2.53	0.44
1:O:480:GLN:NE2	1:T:492:GLN:NE2	2.64	0.44
1:P:186:THR:CG2	1:P:289:THR:C	2.91	0.44
1:P:485:ALA:HB1	1:W:505:ARG:CD	2.47	0.44
1:Q:161:GLN:HB3	1:Q:166:THR:OG1	2.17	0.44
1:Q:384:VAL:O	1:Q:384:VAL:HG12	2.16	0.44
1:R:382:GLU:HG2	1:R:382:GLU:O	2.16	0.44
1:S:49:ILE:CG2	1:S:464:ILE:CD1	2.95	0.44
1:S:316:LEU:HD11	1:S:333:TYR:HB3	2.00	0.44
1:S:360:TYR:O	1:S:360:TYR:CD1	2.70	0.44
1:U:173:ASN:H	1:U:415:THR:HG23	1.83	0.44
1:U:186:THR:CG2	1:U:289:THR:C	2.91	0.44
1:W:115:ILE:HG21	1:W:172:LEU:HD23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:186:THR:CG2	1:W:289:THR:C	2.91	0.44
1:W:316:LEU:HD11	1:W:333:TYR:HB3	2.00	0.44
1:A:173:ASN:H	1:A:415:THR:HG23	1.83	0.44
1:B:318:LYS:HE3	1:B:330:GLU:CG	2.47	0.44
1:B:382:GLU:HG2	1:B:382:GLU:O	2.16	0.44
1:C:112:GLN:HB3	1:C:175:GLN:HE21	1.83	0.44
1:C:441:ASN:ND2	1:N:43:ASP:OD1	2.50	0.44
1:D:38:ASN:ND2	1:D:41:LYS:NZ	2.53	0.44
1:D:180:VAL:HG23	1:D:321:TYR:HD1	1.61	0.44
1:E:115:ILE:HG21	1:E:172:LEU:HD23	2.00	0.44
1:E:186:THR:CG2	1:E:289:THR:C	2.91	0.44
1:E:360:TYR:OH	1:E:386:ILE:HG13	2.10	0.44
1:F:395:LYS:HD2	1:F:395:LYS:HA	1.80	0.44
1:G:49:ILE:CG2	1:G:464:ILE:CD1	2.95	0.44
1:G:466:ASP:CG	1:R:5:ASN:HB3	2.43	0.44
1:H:49:ILE:CG2	1:H:464:ILE:CD1	2.95	0.44
1:H:161:GLN:HB3	1:H:166:THR:OG1	2.17	0.44
1:H:325:ASN:CG	1:S:133:GLY:O	2.60	0.44
1:I:10:SER:HA	1:I:13:THR:HG22	1.98	0.44
1:I:485:ALA:HB1	1:O:505:ARG:CD	2.47	0.44
1:J:115:ILE:HG21	1:J:172:LEU:HD23	2.00	0.44
1:J:145:ILE:O	1:J:154:THR:CA	2.38	0.44
1:K:386:ILE:CD1	1:K:401:PHE:CZ	2.95	0.44
1:L:358:THR:CG2	1:L:360:TYR:HD2	2.28	0.44
1:M:31:LEU:CD2	1:M:469:TYR:CD1	2.67	0.44
1:M:360:TYR:HE1	1:M:362:ALA:HB2	1.82	0.44
1:M:382:GLU:O	1:M:382:GLU:HG2	2.16	0.44
1:N:24:LEU:HD12	1:N:476:MET:HG3	1.98	0.44
1:N:382:GLU:OE1	1:N:382:GLU:N	2.49	0.44
1:O:85:ASN:O	1:O:89:GLN:HG2	2.18	0.44
1:P:120:ASN:ND2	1:P:395:LYS:HZ2	2.15	0.44
1:Q:314:ALA:CB	1:Q:337:ALA:HA	2.24	0.44
1:Q:360:TYR:O	1:Q:360:TYR:CD1	2.70	0.44
1:R:112:GLN:HB3	1:R:175:GLN:HE21	1.83	0.44
1:R:186:THR:CG2	1:R:289:THR:C	2.91	0.44
1:S:178:TYR:CE2	1:S:378:ASP:HB3	2.49	0.44
1:T:24:LEU:HD12	1:T:476:MET:HG3	1.98	0.44
1:T:360:TYR:CD1	1:T:360:TYR:O	2.70	0.44
1:U:30:ARG:CG	1:U:41:LYS:HZ3	2.31	0.44
1:U:360:TYR:OH	1:U:386:ILE:HG13	2.10	0.44
1:W:49:ILE:CG2	1:W:464:ILE:CD1	2.95	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:85:ASN:O	1:W:89:GLN:HG2	2.18	0.44
1:W:186:THR:HG22	1:W:290:PRO:HA	0.49	0.44
1:B:186:THR:CG2	1:B:289:THR:C	2.91	0.44
1:B:384:VAL:O	1:B:384:VAL:HG12	2.16	0.44
1:C:155:ILE:CB	1:C:443:PHE:HE1	2.30	0.44
1:C:384:VAL:O	1:C:384:VAL:HG12	2.16	0.44
1:C:405:PRO:O	1:C:406:GLU:CG	2.66	0.44
1:D:24:LEU:HD12	1:D:476:MET:HG3	1.98	0.44
1:D:395:LYS:HD2	1:D:395:LYS:HA	1.81	0.44
1:D:405:PRO:O	1:D:406:GLU:CG	2.66	0.44
1:D:470:ALA:HB3	1:J:14:GLN:HE21	1.83	0.44
1:E:112:GLN:HB3	1:E:175:GLN:HE21	1.83	0.44
1:E:145:ILE:HG22	1:E:147:VAL:CG2	2.33	0.44
1:E:173:ASN:H	1:E:415:THR:HG23	1.83	0.44
1:E:360:TYR:O	1:E:360:TYR:CD1	2.70	0.44
1:E:441:ASN:ND2	1:P:43:ASP:OD1	2.50	0.44
1:G:28:ILE:HG12	1:L:489:VAL:HG13	1.99	0.44
1:H:112:GLN:HB3	1:H:175:GLN:HE21	1.83	0.44
1:H:314:ALA:CB	1:H:337:ALA:HA	2.24	0.44
1:I:4:ILE:CG1	1:I:501:LEU:HD12	2.02	0.44
1:I:85:ASN:O	1:I:89:GLN:HG2	2.18	0.44
1:I:395:LYS:HA	1:I:395:LYS:HD2	1.81	0.44
1:K:49:ILE:CG2	1:K:464:ILE:CD1	2.95	0.44
1:K:115:ILE:HG21	1:K:172:LEU:HD23	2.00	0.44
1:K:480:GLN:OE1	1:P:492:GLN:NE2	2.50	0.44
1:L:173:ASN:H	1:L:415:THR:HG23	1.83	0.44
1:L:424:ALA:O	1:L:428:GLN:HG3	2.18	0.44
1:M:49:ILE:CG2	1:M:464:ILE:CD1	2.95	0.44
1:M:424:ALA:O	1:M:428:GLN:HG3	2.18	0.44
1:N:81:LEU:HA	1:N:81:LEU:HD23	1.69	0.44
1:O:10:SER:HA	1:O:13:THR:HG22	1.98	0.44
1:O:120:ASN:ND2	1:O:395:LYS:HZ2	2.16	0.44
1:P:115:ILE:HG21	1:P:172:LEU:HD23	2.00	0.44
1:Q:112:GLN:HB3	1:Q:175:GLN:HE21	1.83	0.44
1:Q:316:LEU:HD11	1:Q:333:TYR:HB3	2.00	0.44
1:Q:405:PRO:O	1:Q:406:GLU:CG	2.66	0.44
1:R:161:GLN:HB3	1:R:166:THR:OG1	2.17	0.44
1:S:186:THR:CG2	1:S:289:THR:C	2.91	0.44
1:T:360:TYR:HE1	1:T:362:ALA:HB2	1.82	0.44
1:W:161:GLN:HB3	1:W:166:THR:OG1	2.17	0.44
1:A:115:ILE:HG21	1:A:172:LEU:HD23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:31:LEU:CD2	1:E:469:TYR:CD1	2.67	0.44
1:G:130:GLN:CD	1:L:150:ASN:ND2	2.74	0.44
1:G:481:ILE:HG12	1:M:498:GLN:CB	2.48	0.44
1:H:178:TYR:CE2	1:H:378:ASP:HB3	2.49	0.44
1:H:186:THR:CG2	1:H:289:THR:C	2.91	0.44
1:H:316:LEU:HD11	1:H:333:TYR:HB3	2.00	0.44
1:H:382:GLU:HG2	1:H:382:GLU:O	2.16	0.44
1:H:481:ILE:HG12	1:N:498:GLN:CB	2.48	0.44
1:I:405:PRO:O	1:I:406:GLU:CG	2.66	0.44
1:J:112:GLN:HB3	1:J:175:GLN:HE21	1.83	0.44
1:K:4:ILE:HD11	1:K:497:PRO:CA	2.44	0.44
1:L:112:GLN:HB3	1:L:175:GLN:HE21	1.83	0.44
1:L:382:GLU:O	1:L:382:GLU:HG2	2.16	0.44
1:M:10:SER:HA	1:M:13:THR:HG22	1.98	0.44
1:N:186:THR:CG2	1:N:289:THR:C	2.91	0.44
1:P:391:TYR:CE1	1:P:407:LEU:HB2	2.53	0.44
1:S:360:TYR:HE1	1:S:362:ALA:HB2	1.82	0.44
1:T:38:ASN:HD22	1:T:41:LYS:NZ	1.90	0.44
1:U:24:LEU:HD12	1:U:476:MET:HG3	1.98	0.44
1:W:155:ILE:CB	1:W:443:PHE:HE1	2.30	0.44
1:W:424:ALA:O	1:W:428:GLN:HG3	2.18	0.44
1:A:35:LEU:HD23	1:L:5:ASN:HD22	1.82	0.44
1:A:155:ILE:CB	1:A:443:PHE:HE1	2.30	0.44
1:B:316:LEU:HD11	1:B:333:TYR:HB3	2.00	0.44
1:B:325:ASN:CG	1:M:133:GLY:O	2.61	0.44
1:B:424:ALA:O	1:B:428:GLN:HG3	2.18	0.44
1:B:441:ASN:ND2	1:M:43:ASP:OD1	2.50	0.44
1:C:24:LEU:HD12	1:C:476:MET:HG3	1.98	0.44
1:D:424:ALA:O	1:D:428:GLN:HG3	2.18	0.44
1:D:432:LEU:CD2	1:D:432:LEU:C	2.86	0.44
1:D:480:GLN:NE2	1:I:492:GLN:NE2	2.64	0.44
1:E:24:LEU:HD12	1:E:476:MET:HG3	1.99	0.44
1:E:107:ASP:CG	1:U:49:ILE:HD11	2.42	0.44
1:E:469:TYR:CE2	1:P:501:LEU:CD2	2.91	0.44
1:E:480:GLN:NE2	1:J:492:GLN:NE2	2.61	0.44
1:F:81:LEU:HA	1:F:81:LEU:HD23	1.69	0.44
1:G:115:ILE:HG21	1:G:172:LEU:HD23	2.00	0.44
1:H:10:SER:HA	1:H:13:THR:HG22	1.98	0.44
1:H:24:LEU:HD12	1:H:476:MET:HG3	1.99	0.44
1:H:186:THR:HG22	1:H:290:PRO:HA	0.49	0.44
1:I:481:ILE:HD11	1:O:498:GLN:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:481:ILE:HG12	1:O:498:GLN:HB3	2.00	0.44
1:J:173:ASN:H	1:J:415:THR:HG23	1.83	0.44
1:J:186:THR:CG2	1:J:289:THR:C	2.91	0.44
1:J:335:LEU:O	1:J:342:TYR:HD2	2.01	0.44
1:J:469:TYR:CE2	1:U:501:LEU:CD2	2.90	0.44
1:K:36:ARG:N	1:K:465:GLU:O	2.48	0.44
1:K:161:GLN:HB3	1:K:166:THR:OG1	2.17	0.44
1:K:186:THR:HG22	1:K:290:PRO:HA	0.49	0.44
1:K:358:THR:CG2	1:K:360:TYR:HD2	2.28	0.44
1:L:38:ASN:ND2	1:L:41:LYS:NZ	2.53	0.44
1:N:173:ASN:H	1:N:415:THR:HG23	1.83	0.44
1:N:316:LEU:HD11	1:N:333:TYR:HB3	2.00	0.44
1:O:115:ILE:HG21	1:O:172:LEU:HD23	2.00	0.44
1:P:130:GLN:OE1	1:U:150:ASN:ND2	2.35	0.44
1:P:316:LEU:HD11	1:P:333:TYR:HB3	2.00	0.44
1:P:405:PRO:O	1:P:406:GLU:CG	2.66	0.44
1:Q:120:ASN:ND2	1:Q:395:LYS:HZ2	2.16	0.44
1:Q:432:LEU:CD2	1:Q:432:LEU:C	2.86	0.44
1:R:335:LEU:O	1:R:342:TYR:HD2	2.01	0.44
1:R:360:TYR:HE1	1:R:362:ALA:HB2	1.82	0.44
1:S:173:ASN:H	1:S:415:THR:HG23	1.83	0.44
1:T:10:SER:HA	1:T:13:THR:HG22	1.98	0.44
1:T:161:GLN:HB3	1:T:166:THR:OG1	2.17	0.44
1:U:85:ASN:O	1:U:89:GLN:HG2	2.18	0.44
1:U:112:GLN:HB3	1:U:175:GLN:HE21	1.83	0.44
1:A:49:ILE:CG2	1:A:464:ILE:CD1	2.95	0.44
1:A:107:ASP:OD1	1:Q:49:ILE:HD11	2.18	0.44
1:A:424:ALA:O	1:A:428:GLN:HG3	2.18	0.44
1:B:463:ARG:NH1	1:B:463:ARG:CG	2.73	0.44
1:C:316:LEU:HD11	1:C:333:TYR:HB3	2.00	0.44
1:D:35:LEU:CD2	1:O:5:ASN:CG	2.90	0.44
1:D:115:ILE:HG21	1:D:172:LEU:HD23	2.00	0.44
1:D:173:ASN:H	1:D:415:THR:HG23	1.83	0.44
1:F:173:ASN:CG	1:F:411:ALA:HB3	2.24	0.44
1:G:161:GLN:HB3	1:G:166:THR:OG1	2.17	0.44
1:G:463:ARG:CG	1:G:463:ARG:NH1	2.73	0.44
1:H:335:LEU:O	1:H:342:TYR:HD2	2.01	0.44
1:H:405:PRO:O	1:H:406:GLU:CG	2.66	0.44
1:J:360:TYR:OH	1:J:386:ILE:HG13	2.10	0.44
1:J:481:ILE:HG12	1:P:498:GLN:HB3	1.99	0.44
1:K:180:VAL:HG23	1:K:321:TYR:HD1	1.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:316:LEU:HD11	1:K:333:TYR:HB3	2.00	0.44
1:K:424:ALA:O	1:K:428:GLN:HG3	2.18	0.44
1:K:481:ILE:HG12	1:Q:498:GLN:HB3	2.00	0.44
1:L:463:ARG:CG	1:L:463:ARG:NH1	2.73	0.44
1:N:335:LEU:O	1:N:342:TYR:HD2	2.01	0.44
1:O:81:LEU:HD23	1:O:81:LEU:HA	1.69	0.44
1:O:112:GLN:HB3	1:O:175:GLN:HE21	1.83	0.44
1:O:155:ILE:CB	1:O:443:PHE:HE1	2.30	0.44
1:O:335:LEU:O	1:O:342:TYR:HD2	2.01	0.44
1:P:85:ASN:O	1:P:89:GLN:HG2	2.17	0.44
1:P:112:GLN:HB3	1:P:175:GLN:HE21	1.83	0.44
1:P:173:ASN:H	1:P:415:THR:HG23	1.83	0.44
1:P:358:THR:CG2	1:P:360:TYR:HD2	2.28	0.44
1:Q:173:ASN:H	1:Q:415:THR:HG23	1.83	0.44
1:S:112:GLN:HB3	1:S:175:GLN:HE21	1.83	0.44
1:U:115:ILE:HG21	1:U:172:LEU:HD23	2.00	0.44
1:W:112:GLN:HB3	1:W:175:GLN:HE21	1.83	0.44
1:A:480:GLN:NE2	1:F:492:GLN:NE2	2.63	0.43
1:B:85:ASN:O	1:B:89:GLN:HG2	2.18	0.43
1:E:81:LEU:HD13	1:E:432:LEU:HD22	1.92	0.43
1:E:316:LEU:HD11	1:E:333:TYR:HB3	2.00	0.43
1:E:405:PRO:O	1:E:406:GLU:CG	2.66	0.43
1:F:481:ILE:HG12	1:L:498:GLN:CB	2.48	0.43
1:G:382:GLU:O	1:G:382:GLU:HG2	2.16	0.43
1:G:441:ASN:ND2	1:R:43:ASP:OD1	2.51	0.43
1:H:4:ILE:HD11	1:H:497:PRO:CA	2.44	0.43
1:H:155:ILE:CB	1:H:443:PHE:HE1	2.30	0.43
1:I:24:LEU:HD12	1:I:476:MET:HG3	1.98	0.43
1:J:24:LEU:HD12	1:J:476:MET:HG3	1.98	0.43
1:J:36:ARG:O	1:J:41:LYS:CG	2.66	0.43
1:J:161:GLN:HB3	1:J:166:THR:OG1	2.17	0.43
1:K:112:GLN:HB3	1:K:175:GLN:HE21	1.83	0.43
1:K:469:TYR:CB	1:W:501:LEU:CD2	2.95	0.43
1:L:405:PRO:O	1:L:406:GLU:CG	2.66	0.43
1:M:112:GLN:HB3	1:M:175:GLN:HE21	1.83	0.43
1:M:186:THR:CG2	1:M:289:THR:C	2.91	0.43
1:N:85:ASN:O	1:N:89:GLN:HG2	2.17	0.43
1:N:314:ALA:HB2	1:N:336:LYS:C	2.39	0.43
1:O:24:LEU:HD12	1:O:476:MET:HG3	1.98	0.43
1:O:28:ILE:HG23	1:T:489:VAL:HG11	2.00	0.43
1:O:28:ILE:HG12	1:T:489:VAL:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:173:ASN:H	1:O:415:THR:HG23	1.83	0.43
1:O:432:LEU:CD2	1:O:432:LEU:C	2.86	0.43
1:Q:49:ILE:CG2	1:Q:464:ILE:CD1	2.95	0.43
1:Q:145:ILE:O	1:Q:154:THR:CA	2.39	0.43
1:Q:321:TYR:CE2	1:Q:380:LYS:HE3	2.48	0.43
1:Q:364:ASP:CB	1:Q:402:LYS:NZ	2.62	0.43
1:R:173:ASN:H	1:R:415:THR:HG23	1.83	0.43
1:S:186:THR:HG22	1:S:290:PRO:HA	0.49	0.43
1:S:395:LYS:HD2	1:S:395:LYS:HA	1.80	0.43
1:T:115:ILE:HG21	1:T:172:LEU:HD23	2.00	0.43
1:T:186:THR:HG22	1:T:290:PRO:HA	0.50	0.43
1:T:335:LEU:O	1:T:342:TYR:HD2	2.01	0.43
1:T:424:ALA:O	1:T:428:GLN:HG3	2.18	0.43
1:W:4:ILE:HD11	1:W:497:PRO:CA	2.44	0.43
1:W:358:THR:CG2	1:W:360:TYR:HD2	2.28	0.43
1:B:173:ASN:H	1:B:415:THR:HG23	1.83	0.43
1:C:145:ILE:O	1:C:154:THR:CA	2.39	0.43
1:C:173:ASN:H	1:C:415:THR:HG23	1.83	0.43
1:C:178:TYR:CE2	1:C:378:ASP:HB3	2.48	0.43
1:C:382:GLU:O	1:C:382:GLU:HG2	2.16	0.43
1:E:424:ALA:O	1:E:428:GLN:HG3	2.18	0.43
1:F:112:GLN:HB3	1:F:175:GLN:HE21	1.83	0.43
1:G:173:ASN:CG	1:G:411:ALA:HB3	2.24	0.43
1:G:186:THR:CG2	1:G:289:THR:C	2.91	0.43
1:I:173:ASN:H	1:I:415:THR:HG23	1.83	0.43
1:I:424:ALA:O	1:I:428:GLN:HG3	2.18	0.43
1:K:186:THR:CG2	1:K:289:THR:C	2.91	0.43
1:K:405:PRO:O	1:K:406:GLU:CG	2.66	0.43
1:K:480:GLN:CD	1:P:492:GLN:NE2	2.76	0.43
1:N:10:SER:HA	1:N:13:THR:HG22	1.98	0.43
1:N:405:PRO:O	1:N:406:GLU:CG	2.66	0.43
1:O:36:ARG:O	1:O:41:LYS:CG	2.66	0.43
1:O:360:TYR:HE1	1:O:362:ALA:HB2	1.82	0.43
1:O:424:ALA:O	1:O:428:GLN:HG3	2.18	0.43
1:P:364:ASP:CB	1:P:402:LYS:NZ	2.62	0.43
1:Q:130:GLN:OE1	1:W:150:ASN:ND2	2.36	0.43
1:Q:186:THR:HG22	1:Q:290:PRO:C	2.31	0.43
1:R:85:ASN:O	1:R:89:GLN:HG2	2.18	0.43
1:S:404:GLN:O	1:S:404:GLN:HG2	2.19	0.43
1:T:316:LEU:HD11	1:T:333:TYR:HB3	2.00	0.43
1:U:316:LEU:HD11	1:U:333:TYR:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:173:ASN:H	1:W:415:THR:HG23	1.83	0.43
1:B:115:ILE:HG21	1:B:172:LEU:HD23	2.00	0.43
1:B:391:TYR:CE1	1:B:407:LEU:HB2	2.53	0.43
1:C:335:LEU:O	1:C:342:TYR:HD2	2.01	0.43
1:D:485:ALA:HA	1:J:505:ARG:NE	2.34	0.43
1:E:186:THR:HG22	1:E:290:PRO:HA	0.49	0.43
1:E:358:THR:CG2	1:E:360:TYR:HD2	2.28	0.43
1:F:424:ALA:O	1:F:428:GLN:HG3	2.18	0.43
1:F:470:ALA:HB3	1:L:14:GLN:HE21	1.82	0.43
1:G:93:GLU:HG3	1:R:62:GLN:CB	2.48	0.43
1:H:77:THR:CG2	1:H:436:LEU:HD21	2.48	0.43
1:I:115:ILE:HG21	1:I:172:LEU:HD23	2.00	0.43
1:I:161:GLN:HB3	1:I:166:THR:OG1	2.17	0.43
1:I:430:ASP:OD1	1:T:51:ASN:ND2	2.51	0.43
1:L:120:ASN:ND2	1:L:395:LYS:HZ2	2.16	0.43
1:L:155:ILE:HB	1:L:443:PHE:CE1	2.50	0.43
1:M:405:PRO:O	1:M:406:GLU:CG	2.66	0.43
1:Q:186:THR:CG2	1:Q:289:THR:C	2.91	0.43
1:R:115:ILE:HG21	1:R:172:LEU:HD23	2.00	0.43
1:S:10:SER:HA	1:S:13:THR:HG22	1.98	0.43
1:T:77:THR:CG2	1:T:436:LEU:HD21	2.48	0.43
1:T:186:THR:CG2	1:T:289:THR:C	2.91	0.43
1:T:405:PRO:O	1:T:406:GLU:CG	2.66	0.43
1:U:161:GLN:HB3	1:U:166:THR:OG1	2.17	0.43
1:U:335:LEU:O	1:U:342:TYR:HD2	2.01	0.43
1:W:360:TYR:CE1	1:W:386:ILE:HD11	2.47	0.43
1:A:81:LEU:HA	1:A:81:LEU:HD23	1.69	0.43
1:A:85:ASN:O	1:A:89:GLN:HG2	2.18	0.43
1:A:186:THR:CG2	1:A:289:THR:C	2.91	0.43
1:B:335:LEU:O	1:B:342:TYR:HD2	2.01	0.43
1:C:424:ALA:O	1:C:428:GLN:HG3	2.18	0.43
1:D:419:LEU:O	1:D:422:ILE:N	2.48	0.43
1:E:36:ARG:O	1:E:41:LYS:CG	2.66	0.43
1:E:94:LEU:HD23	1:E:94:LEU:HA	1.86	0.43
1:E:391:TYR:CE1	1:E:407:LEU:HB2	2.53	0.43
1:G:112:GLN:HB3	1:G:175:GLN:HE21	1.83	0.43
1:I:335:LEU:O	1:I:342:TYR:HD2	2.01	0.43
1:J:186:THR:HG22	1:J:290:PRO:HA	0.49	0.43
1:J:405:PRO:O	1:J:406:GLU:CG	2.66	0.43
1:J:485:ALA:HA	1:P:505:ARG:NE	2.34	0.43
1:K:28:ILE:HG12	1:P:489:VAL:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:94:LEU:HD23	1:K:94:LEU:HA	1.87	0.43
1:L:81:LEU:HD13	1:L:432:LEU:HD22	1.92	0.43
1:L:470:ALA:HB1	1:R:14:GLN:HG3	2.00	0.43
1:M:85:ASN:O	1:M:89:GLN:HG2	2.18	0.43
1:N:424:ALA:O	1:N:428:GLN:HG3	2.18	0.43
1:N:485:ALA:CB	1:T:505:ARG:CD	2.96	0.43
1:R:405:PRO:O	1:R:406:GLU:CG	2.66	0.43
1:T:36:ARG:O	1:T:41:LYS:CG	2.66	0.43
1:W:314:ALA:HB2	1:W:336:LYS:C	2.39	0.43
1:A:155:ILE:HD13	1:A:443:PHE:CD1	2.54	0.43
1:A:335:LEU:O	1:A:342:TYR:HD2	2.01	0.43
1:C:186:THR:HG22	1:C:290:PRO:HA	0.49	0.43
1:D:28:ILE:HG23	1:I:489:VAL:HG11	2.01	0.43
1:D:81:LEU:HA	1:D:81:LEU:HD23	1.69	0.43
1:D:335:LEU:O	1:D:342:TYR:HD2	2.01	0.43
1:D:441:ASN:ND2	1:O:43:ASP:OD1	2.51	0.43
1:F:155:ILE:CB	1:F:443:PHE:HE1	2.30	0.43
1:F:432:LEU:CD2	1:F:432:LEU:C	2.86	0.43
1:G:335:LEU:O	1:G:342:TYR:HD2	2.01	0.43
1:G:424:ALA:O	1:G:428:GLN:HG3	2.18	0.43
1:J:316:LEU:HD11	1:J:333:TYR:HB3	2.00	0.43
1:K:485:ALA:CB	1:Q:505:ARG:CD	2.96	0.43
1:L:307:ASP:OD1	1:L:309:THR:OG1	2.32	0.43
1:N:112:GLN:HB3	1:N:175:GLN:HE21	1.83	0.43
1:N:130:GLN:CD	1:S:150:ASN:ND2	2.74	0.43
1:N:404:GLN:O	1:N:404:GLN:HG2	2.19	0.43
1:P:424:ALA:O	1:P:428:GLN:HG3	2.18	0.43
1:Q:28:ILE:HG23	1:W:489:VAL:HG11	1.99	0.43
1:Q:419:LEU:O	1:Q:422:ILE:N	2.48	0.43
1:R:186:THR:HG22	1:R:290:PRO:C	2.31	0.43
1:R:318:LYS:HE3	1:R:330:GLU:CG	2.46	0.43
1:R:404:GLN:O	1:R:404:GLN:HG2	2.19	0.43
1:S:115:ILE:HG21	1:S:172:LEU:HD23	2.00	0.43
1:S:424:ALA:O	1:S:428:GLN:HG3	2.18	0.43
1:T:112:GLN:HB3	1:T:175:GLN:HE21	1.83	0.43
1:B:155:ILE:HD13	1:B:443:PHE:CD1	2.54	0.43
1:B:401:PHE:CE1	1:B:407:LEU:HD11	2.36	0.43
1:D:186:THR:CG2	1:D:289:THR:C	2.91	0.43
1:D:358:THR:CG2	1:D:360:TYR:HD2	2.28	0.43
1:E:470:ALA:HB3	1:K:14:GLN:HE21	1.81	0.43
1:F:28:ILE:HG23	1:K:489:VAL:HG11	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:155:ILE:HD13	1:F:443:PHE:CD1	2.54	0.43
1:F:391:TYR:CE1	1:F:407:LEU:HB2	2.53	0.43
1:G:155:ILE:HD13	1:G:443:PHE:CD1	2.54	0.43
1:G:405:PRO:O	1:G:406:GLU:CG	2.66	0.43
1:H:173:ASN:H	1:H:415:THR:HG23	1.83	0.43
1:I:186:THR:CB	1:I:289:THR:C	2.81	0.43
1:I:316:LEU:HD11	1:I:333:TYR:HB3	2.00	0.43
1:J:424:ALA:O	1:J:428:GLN:HG3	2.18	0.43
1:L:391:TYR:CE1	1:L:407:LEU:HB2	2.53	0.43
1:M:115:ILE:HG21	1:M:172:LEU:HD23	2.00	0.43
1:N:115:ILE:HG21	1:N:172:LEU:HD23	2.00	0.43
1:O:316:LEU:HD11	1:O:333:TYR:HB3	2.00	0.43
1:Q:85:ASN:O	1:Q:89:GLN:HG2	2.17	0.43
1:Q:358:THR:CG2	1:Q:360:TYR:HD2	2.28	0.43
1:R:145:ILE:CG2	1:R:147:VAL:CG2	2.95	0.43
1:R:180:VAL:HG23	1:R:321:TYR:HD1	1.61	0.43
1:S:335:LEU:O	1:S:342:TYR:HD2	2.01	0.43
1:S:463:ARG:NH1	1:S:463:ARG:CG	2.73	0.43
1:T:4:ILE:HD11	1:T:497:PRO:CA	2.44	0.43
1:U:155:ILE:HD13	1:U:443:PHE:CD1	2.54	0.43
1:W:391:TYR:CE1	1:W:407:LEU:HB2	2.53	0.43
1:W:419:LEU:O	1:W:422:ILE:N	2.48	0.43
1:B:405:PRO:O	1:B:406:GLU:CG	2.66	0.43
1:B:485:ALA:HB1	1:H:505:ARG:CD	2.49	0.43
1:D:316:LEU:HD11	1:D:333:TYR:HB3	2.00	0.43
1:F:175:GLN:HB3	1:F:378:ASP:OD1	2.19	0.43
1:L:94:LEU:HD23	1:L:94:LEU:HA	1.86	0.43
1:N:28:ILE:HG23	1:S:489:VAL:HG11	2.01	0.43
1:N:395:LYS:HA	1:N:395:LYS:HD2	1.80	0.43
1:P:335:LEU:O	1:P:342:TYR:HD2	2.01	0.43
1:Q:178:TYR:CE2	1:Q:378:ASP:HB3	2.48	0.43
1:Q:335:LEU:O	1:Q:342:TYR:HD2	2.01	0.43
1:T:173:ASN:H	1:T:415:THR:HG23	1.83	0.43
1:W:360:TYR:OH	1:W:386:ILE:HG13	2.10	0.43
1:A:325:ASN:CG	1:L:133:GLY:O	2.61	0.43
1:A:419:LEU:O	1:A:420:GLN:C	2.62	0.43
1:B:107:ASP:OD1	1:R:49:ILE:HD11	2.17	0.43
1:E:175:GLN:O	1:E:378:ASP:OD1	2.37	0.43
1:F:325:ASN:CG	1:Q:133:GLY:O	2.62	0.43
1:F:405:PRO:O	1:F:406:GLU:CG	2.66	0.43
1:H:469:TYR:CE2	1:S:501:LEU:CD1	3.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:470:ALA:HB3	1:N:14:GLN:HE21	1.84	0.43
1:K:335:LEU:O	1:K:342:TYR:HD2	2.01	0.43
1:K:360:TYR:OH	1:K:386:ILE:HG13	2.10	0.43
1:K:463:ARG:HH11	1:K:463:ARG:CG	2.14	0.43
1:M:155:ILE:CB	1:M:443:PHE:HE1	2.30	0.43
1:N:175:GLN:HB3	1:N:378:ASP:OD1	2.19	0.43
1:N:480:GLN:NE2	1:S:492:GLN:NE2	2.65	0.43
1:O:36:ARG:N	1:O:465:GLU:O	2.48	0.43
1:O:130:GLN:CD	1:T:150:ASN:ND2	2.75	0.43
1:O:405:PRO:O	1:O:406:GLU:CG	2.66	0.43
1:P:145:ILE:O	1:P:154:THR:CA	2.39	0.43
1:P:186:THR:HG22	1:P:290:PRO:HA	0.49	0.43
1:Q:404:GLN:O	1:Q:404:GLN:HG2	2.19	0.43
1:S:175:GLN:HB3	1:S:378:ASP:OD1	2.19	0.43
1:S:405:PRO:O	1:S:406:GLU:CG	2.66	0.43
1:A:112:GLN:HB3	1:A:175:GLN:HE21	1.83	0.43
1:A:175:GLN:HB3	1:A:378:ASP:OD1	2.19	0.43
1:A:405:PRO:O	1:A:406:GLU:CG	2.66	0.43
1:B:107:ASP:CG	1:R:49:ILE:HD11	2.44	0.43
1:B:145:ILE:CG2	1:B:147:VAL:CG2	2.94	0.43
1:C:115:ILE:HG21	1:C:172:LEU:HD23	2.00	0.43
1:C:120:ASN:ND2	1:C:395:LYS:HZ2	2.16	0.43
1:C:155:ILE:HD13	1:C:443:PHE:CD1	2.54	0.43
1:D:28:ILE:HG12	1:I:489:VAL:HG13	2.00	0.43
1:D:112:GLN:HB3	1:D:175:GLN:HE21	1.83	0.43
1:D:360:TYR:OH	1:D:386:ILE:HG13	2.10	0.43
1:D:469:TYR:CB	1:O:501:LEU:CD2	2.96	0.43
1:E:4:ILE:HD11	1:E:497:PRO:CA	2.44	0.43
1:F:4:ILE:HD11	1:F:497:PRO:CA	2.44	0.43
1:F:358:THR:CG2	1:F:360:TYR:HD2	2.28	0.43
1:G:391:TYR:CE1	1:G:407:LEU:HB2	2.53	0.43
1:G:469:TYR:CB	1:R:501:LEU:CD2	2.96	0.43
1:I:93:GLU:HG3	1:T:62:GLN:CB	2.48	0.43
1:I:155:ILE:HD13	1:I:443:PHE:CD1	2.54	0.43
1:K:155:ILE:HD13	1:K:443:PHE:CD1	2.54	0.43
1:L:155:ILE:HD13	1:L:443:PHE:CD1	2.54	0.43
1:L:335:LEU:O	1:L:342:TYR:HD2	2.01	0.43
1:M:404:GLN:O	1:M:404:GLN:HG2	2.19	0.43
1:N:419:LEU:O	1:N:420:GLN:C	2.62	0.43
1:N:480:GLN:CD	1:S:492:GLN:NE2	2.74	0.43
1:P:360:TYR:OH	1:P:386:ILE:HG13	2.10	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:173:ASN:CG	1:Q:411:ALA:HB3	2.24	0.43
1:R:391:TYR:CE1	1:R:407:LEU:HB2	2.53	0.43
1:R:424:ALA:O	1:R:428:GLN:HG3	2.18	0.43
1:T:155:ILE:CB	1:T:443:PHE:HE1	2.30	0.43
1:U:175:GLN:O	1:U:378:ASP:OD1	2.37	0.43
1:W:175:GLN:O	1:W:378:ASP:OD1	2.37	0.43
1:A:77:THR:CG2	1:A:436:LEU:HD21	2.48	0.43
1:A:178:TYR:CE2	1:A:378:ASP:HB3	2.49	0.43
1:A:485:ALA:CB	1:G:505:ARG:CD	2.97	0.43
1:D:36:ARG:O	1:D:41:LYS:CG	2.66	0.43
1:E:335:LEU:O	1:E:342:TYR:HD2	2.01	0.43
1:F:173:ASN:H	1:F:415:THR:HG23	1.83	0.43
1:G:430:ASP:OD1	1:R:51:ASN:ND2	2.52	0.43
1:H:115:ILE:HG21	1:H:172:LEU:HD23	2.00	0.43
1:H:155:ILE:HD13	1:H:443:PHE:CD1	2.54	0.43
1:I:35:LEU:CD2	1:T:5:ASN:CG	2.89	0.43
1:I:145:ILE:HG22	1:I:147:VAL:CG2	2.32	0.43
1:I:175:GLN:HB3	1:I:378:ASP:OD1	2.19	0.43
1:J:175:GLN:O	1:J:378:ASP:OD1	2.37	0.43
1:J:314:ALA:CB	1:J:337:ALA:HA	2.24	0.43
1:L:419:LEU:O	1:L:422:ILE:N	2.48	0.43
1:N:386:ILE:CD1	1:N:401:PHE:CZ	2.96	0.43
1:O:485:ALA:CB	1:U:505:ARG:CD	2.97	0.43
1:Q:391:TYR:CE1	1:Q:407:LEU:HB2	2.53	0.43
1:Q:424:ALA:O	1:Q:428:GLN:HG3	2.18	0.43
1:T:155:ILE:HD13	1:T:443:PHE:CD1	2.54	0.43
1:U:391:TYR:CE1	1:U:407:LEU:HB2	2.53	0.43
1:W:155:ILE:HD13	1:W:443:PHE:CD1	2.54	0.43
1:A:173:ASN:CG	1:A:411:ALA:HB3	2.24	0.42
1:C:77:THR:CG2	1:C:436:LEU:HD21	2.47	0.42
1:C:466:ASP:CG	1:N:5:ASN:HB3	2.44	0.42
1:C:470:ALA:HB1	1:I:14:GLN:HG3	2.01	0.42
1:D:4:ILE:HD11	1:D:497:PRO:CA	2.44	0.42
1:D:175:GLN:HB3	1:D:378:ASP:OD1	2.19	0.42
1:D:175:GLN:O	1:D:378:ASP:OD1	2.37	0.42
1:D:430:ASP:OD1	1:O:51:ASN:ND2	2.52	0.42
1:F:419:LEU:O	1:F:420:GLN:C	2.62	0.42
1:G:395:LYS:HD2	1:G:395:LYS:HA	1.81	0.42
1:I:112:GLN:HB3	1:I:175:GLN:HE21	1.83	0.42
1:I:419:LEU:O	1:I:420:GLN:C	2.62	0.42
1:J:130:GLN:CD	1:O:150:ASN:ND2	2.75	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:469:TYR:CB	1:U:501:LEU:CD2	2.97	0.42
1:K:175:GLN:HB3	1:K:378:ASP:OD1	2.19	0.42
1:K:419:LEU:O	1:K:422:ILE:N	2.48	0.42
1:K:432:LEU:CD2	1:K:432:LEU:C	2.85	0.42
1:M:335:LEU:O	1:M:342:TYR:HD2	2.01	0.42
1:O:155:ILE:HD13	1:O:443:PHE:CD1	2.54	0.42
1:O:419:LEU:O	1:O:420:GLN:C	2.62	0.42
1:O:470:ALA:HB1	1:U:14:GLN:HG3	2.01	0.42
1:P:77:THR:CG2	1:P:436:LEU:HD21	2.47	0.42
1:P:175:GLN:O	1:P:378:ASP:OD1	2.37	0.42
1:Q:155:ILE:HB	1:Q:443:PHE:CE1	2.50	0.42
1:T:419:LEU:O	1:T:420:GLN:C	2.62	0.42
1:U:419:LEU:O	1:U:422:ILE:N	2.48	0.42
1:W:419:LEU:O	1:W:420:GLN:C	2.62	0.42
1:A:470:ALA:HB3	1:G:14:GLN:HE21	1.83	0.42
1:C:175:GLN:HB3	1:C:378:ASP:OD1	2.19	0.42
1:C:485:ALA:CB	1:I:505:ARG:CD	2.97	0.42
1:E:155:ILE:HD13	1:E:443:PHE:CD1	2.54	0.42
1:E:175:GLN:HB3	1:E:378:ASP:OD1	2.19	0.42
1:F:314:ALA:HB2	1:F:336:LYS:C	2.39	0.42
1:F:466:ASP:CG	1:Q:5:ASN:HB3	2.45	0.42
1:G:120:ASN:ND2	1:G:395:LYS:HZ2	2.17	0.42
1:G:419:LEU:O	1:G:420:GLN:C	2.62	0.42
1:H:38:ASN:ND2	1:H:41:LYS:NZ	2.53	0.42
1:H:424:ALA:O	1:H:428:GLN:HG3	2.18	0.42
1:I:36:ARG:O	1:I:41:LYS:CG	2.66	0.42
1:I:470:ALA:HB1	1:O:14:GLN:HG3	2.01	0.42
1:J:432:LEU:CD2	1:J:432:LEU:C	2.86	0.42
1:K:36:ARG:O	1:K:41:LYS:CG	2.66	0.42
1:K:175:GLN:O	1:K:378:ASP:OD1	2.37	0.42
1:K:485:ALA:HA	1:Q:505:ARG:NE	2.35	0.42
1:L:404:GLN:O	1:L:404:GLN:HG2	2.19	0.42
1:M:155:ILE:HD13	1:M:443:PHE:CD1	2.54	0.42
1:M:173:ASN:CG	1:M:411:ALA:HB3	2.24	0.42
1:M:485:ALA:CB	1:S:505:ARG:CD	2.97	0.42
1:O:175:GLN:HB3	1:O:378:ASP:OD1	2.19	0.42
1:P:155:ILE:HD13	1:P:443:PHE:CD1	2.54	0.42
1:P:436:LEU:HD12	1:P:436:LEU:HA	1.90	0.42
1:Q:36:ARG:N	1:Q:465:GLU:O	2.48	0.42
1:Q:145:ILE:CG2	1:Q:147:VAL:CG2	2.95	0.42
1:W:173:ASN:CG	1:W:411:ALA:HB3	2.24	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:430:ASP:OD1	1:L:51:ASN:ND2	2.53	0.42
1:C:130:GLN:OE1	1:H:150:ASN:ND2	2.37	0.42
1:D:155:ILE:HD13	1:D:443:PHE:CD1	2.54	0.42
1:D:466:ASP:CG	1:O:5:ASN:HB3	2.44	0.42
1:E:325:ASN:CG	1:P:133:GLY:O	2.61	0.42
1:E:419:LEU:O	1:E:422:ILE:N	2.48	0.42
1:E:485:ALA:HA	1:K:505:ARG:NE	2.34	0.42
1:F:49:ILE:HG21	1:F:464:ILE:CD1	2.50	0.42
1:F:175:GLN:O	1:F:378:ASP:OD1	2.37	0.42
1:G:49:ILE:HG21	1:G:464:ILE:CD1	2.50	0.42
1:H:145:ILE:HG22	1:H:147:VAL:CG2	2.33	0.42
1:H:175:GLN:HB3	1:H:378:ASP:OD1	2.19	0.42
1:H:404:GLN:O	1:H:404:GLN:HG2	2.18	0.42
1:H:469:TYR:CB	1:S:501:LEU:CD2	2.95	0.42
1:I:28:ILE:HG23	1:N:489:VAL:HG11	2.00	0.42
1:I:321:TYR:CE2	1:I:380:LYS:CE	3.03	0.42
1:J:360:TYR:HE1	1:J:362:ALA:HB2	1.82	0.42
1:K:49:ILE:HG21	1:K:464:ILE:CD1	2.50	0.42
1:K:395:LYS:HD2	1:K:395:LYS:HA	1.80	0.42
1:N:155:ILE:HD13	1:N:443:PHE:CD1	2.54	0.42
1:O:77:THR:CG2	1:O:436:LEU:HD21	2.47	0.42
1:O:358:THR:CG2	1:O:360:TYR:HD2	2.28	0.42
1:Q:49:ILE:HG21	1:Q:464:ILE:CD1	2.50	0.42
1:Q:175:GLN:O	1:Q:378:ASP:OD1	2.37	0.42
1:U:4:ILE:HD11	1:U:497:PRO:CA	2.44	0.42
1:U:81:LEU:HD13	1:U:432:LEU:HD22	1.92	0.42
1:A:49:ILE:HG21	1:A:464:ILE:CD1	2.50	0.42
1:A:321:TYR:CE2	1:A:380:LYS:HE3	2.48	0.42
1:B:112:GLN:HB3	1:B:175:GLN:HE21	1.83	0.42
1:B:419:LEU:O	1:B:420:GLN:C	2.62	0.42
1:C:321:TYR:CE2	1:C:380:LYS:CE	3.03	0.42
1:C:419:LEU:O	1:C:420:GLN:C	2.62	0.42
1:E:35:LEU:HD23	1:P:5:ASN:HD22	1.82	0.42
1:G:81:LEU:HD13	1:G:432:LEU:HD22	1.92	0.42
1:H:145:ILE:O	1:H:154:THR:CA	2.39	0.42
1:H:419:LEU:O	1:H:420:GLN:C	2.62	0.42
1:I:4:ILE:HD11	1:I:497:PRO:CA	2.44	0.42
1:I:314:ALA:CB	1:I:337:ALA:HA	2.24	0.42
1:I:404:GLN:O	1:I:404:GLN:HG2	2.19	0.42
1:J:28:ILE:HG23	1:O:489:VAL:HG11	2.01	0.42
1:J:155:ILE:HD13	1:J:443:PHE:CD1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:175:GLN:HB3	1:J:378:ASP:OD1	2.19	0.42
1:K:60:LEU:HD23	1:K:60:LEU:HA	1.87	0.42
1:L:49:ILE:HG21	1:L:464:ILE:CD1	2.50	0.42
1:L:175:GLN:HB3	1:L:378:ASP:OD1	2.19	0.42
1:M:49:ILE:HG21	1:M:464:ILE:CD1	2.50	0.42
1:M:173:ASN:H	1:M:415:THR:HG23	1.83	0.42
1:N:65:ARG:NH2	1:S:36:ARG:NH2	2.68	0.42
1:Q:155:ILE:HD13	1:Q:443:PHE:CD1	2.54	0.42
1:Q:175:GLN:HB3	1:Q:378:ASP:OD1	2.19	0.42
1:Q:480:GLN:NE2	1:W:492:GLN:NE2	2.63	0.42
1:R:145:ILE:HG22	1:R:147:VAL:CG2	2.32	0.42
1:T:160:LYS:O	1:T:162:ILE:HG13	2.20	0.42
1:T:175:GLN:HB3	1:T:378:ASP:OD1	2.19	0.42
1:U:424:ALA:O	1:U:428:GLN:HG3	2.18	0.42
1:U:432:LEU:CD2	1:U:432:LEU:C	2.85	0.42
1:W:49:ILE:HG21	1:W:464:ILE:CD1	2.50	0.42
1:A:469:TYR:CB	1:L:501:LEU:CD2	2.98	0.42
1:A:485:ALA:HA	1:G:505:ARG:NE	2.34	0.42
1:B:49:ILE:HG21	1:B:464:ILE:CD1	2.50	0.42
1:C:36:ARG:O	1:C:41:LYS:CG	2.66	0.42
1:C:160:LYS:O	1:C:162:ILE:HG13	2.20	0.42
1:D:93:GLU:HG3	1:O:62:GLN:CB	2.49	0.42
1:D:130:GLN:CD	1:I:150:ASN:ND2	2.74	0.42
1:D:155:ILE:CB	1:D:443:PHE:HE1	2.30	0.42
1:E:160:LYS:O	1:E:162:ILE:HG13	2.20	0.42
1:E:469:TYR:CB	1:P:501:LEU:CD2	2.98	0.42
1:F:335:LEU:O	1:F:342:TYR:HD2	2.01	0.42
1:H:28:ILE:HG23	1:M:489:VAL:HG11	2.01	0.42
1:I:160:LYS:O	1:I:162:ILE:HG13	2.20	0.42
1:K:155:ILE:CB	1:K:443:PHE:HE1	2.30	0.42
1:K:321:TYR:CE2	1:K:380:LYS:CE	3.03	0.42
1:K:430:ASP:OD1	1:W:51:ASN:ND2	2.53	0.42
1:L:160:LYS:O	1:L:162:ILE:HG13	2.20	0.42
1:L:395:LYS:HA	1:L:395:LYS:HD2	1.80	0.42
1:L:401:PHE:CE1	1:L:407:LEU:HD11	2.36	0.42
1:L:419:LEU:O	1:L:420:GLN:C	2.62	0.42
1:M:160:LYS:O	1:M:162:ILE:HG13	2.20	0.42
1:O:175:GLN:O	1:O:378:ASP:OD1	2.37	0.42
1:P:175:GLN:HB3	1:P:378:ASP:OD1	2.19	0.42
1:Q:77:THR:CG2	1:Q:436:LEU:HD21	2.48	0.42
1:S:321:TYR:CE2	1:S:380:LYS:CE	3.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:419:LEU:O	1:U:420:GLN:C	2.62	0.42
1:W:335:LEU:O	1:W:342:TYR:HD2	2.01	0.42
1:A:28:ILE:HG23	1:F:489:VAL:HG11	1.99	0.42
1:A:160:LYS:O	1:A:162:ILE:HG13	2.20	0.42
1:E:432:LEU:CD2	1:E:432:LEU:C	2.86	0.42
1:F:36:ARG:O	1:F:41:LYS:CG	2.66	0.42
1:F:469:TYR:CB	1:Q:501:LEU:CD2	2.98	0.42
1:J:4:ILE:HD11	1:J:497:PRO:CA	2.44	0.42
1:K:391:TYR:CE1	1:K:407:LEU:HB2	2.53	0.42
1:M:175:GLN:HB3	1:M:378:ASP:OD1	2.19	0.42
1:O:4:ILE:HD11	1:O:497:PRO:CA	2.44	0.42
1:P:49:ILE:HG21	1:P:464:ILE:CD1	2.50	0.42
1:P:160:LYS:O	1:P:162:ILE:HG13	2.20	0.42
1:R:155:ILE:HD13	1:R:443:PHE:CD1	2.54	0.42
1:R:175:GLN:HB3	1:R:378:ASP:OD1	2.19	0.42
1:S:155:ILE:HD13	1:S:443:PHE:CD1	2.54	0.42
1:W:175:GLN:HB3	1:W:378:ASP:OD1	2.19	0.42
1:W:395:LYS:HA	1:W:395:LYS:HD2	1.80	0.42
1:A:175:GLN:O	1:A:378:ASP:OD1	2.37	0.42
1:A:321:TYR:CE2	1:A:380:LYS:CE	3.03	0.42
1:B:28:ILE:HG23	1:G:489:VAL:HG11	2.00	0.42
1:B:160:LYS:O	1:B:162:ILE:HG13	2.20	0.42
1:D:469:TYR:CE2	1:O:501:LEU:CD2	2.91	0.42
1:E:49:ILE:HG21	1:E:464:ILE:CD1	2.50	0.42
1:F:93:GLU:HG3	1:Q:62:GLN:CB	2.49	0.42
1:G:470:ALA:HB3	1:M:14:GLN:HE21	1.84	0.42
1:I:175:GLN:O	1:I:378:ASP:OD1	2.37	0.42
1:K:160:LYS:O	1:K:162:ILE:HG13	2.20	0.42
1:M:38:ASN:ND2	1:M:41:LYS:NZ	2.53	0.42
1:M:321:TYR:CE2	1:M:380:LYS:CE	3.03	0.42
1:N:36:ARG:O	1:N:41:LYS:CG	2.66	0.42
1:O:485:ALA:HA	1:U:505:ARG:NE	2.34	0.42
1:P:4:ILE:HD11	1:P:497:PRO:CA	2.44	0.42
1:P:432:LEU:CD2	1:P:432:LEU:C	2.85	0.42
1:Q:65:ARG:NH2	1:W:36:ARG:NH2	2.67	0.42
1:Q:160:LYS:O	1:Q:162:ILE:HG13	2.20	0.42
1:Q:321:TYR:CE2	1:Q:380:LYS:CE	3.03	0.42
1:R:49:ILE:HG21	1:R:464:ILE:CD1	2.49	0.42
1:R:321:TYR:CE2	1:R:380:LYS:HE3	2.48	0.42
1:S:94:LEU:HD23	1:S:94:LEU:HA	1.87	0.42
1:T:175:GLN:O	1:T:378:ASP:OD1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:436:LEU:HD12	1:T:436:LEU:HA	1.90	0.42
1:U:175:GLN:HB3	1:U:378:ASP:OD1	2.19	0.42
1:A:65:ARG:NH2	1:F:36:ARG:NH2	2.68	0.42
1:A:391:TYR:CE1	1:A:407:LEU:HB2	2.53	0.42
1:B:175:GLN:O	1:B:378:ASP:OD1	2.37	0.42
1:B:430:ASP:OD1	1:M:51:ASN:ND2	2.52	0.42
1:E:419:LEU:O	1:E:420:GLN:C	2.62	0.42
1:F:441:ASN:ND2	1:Q:43:ASP:OD1	2.52	0.42
1:G:38:ASN:ND2	1:G:41:LYS:NZ	2.53	0.42
1:G:175:GLN:HB3	1:G:378:ASP:OD1	2.19	0.42
1:G:321:TYR:CE2	1:G:380:LYS:CE	3.03	0.42
1:H:145:ILE:CG2	1:H:147:VAL:CG2	2.95	0.42
1:I:81:LEU:HD13	1:I:432:LEU:HD22	1.92	0.42
1:I:441:ASN:ND2	1:T:43:ASP:OD1	2.52	0.42
1:I:469:TYR:CE2	1:T:501:LEU:CD1	3.03	0.42
1:J:430:ASP:OD1	1:U:51:ASN:ND2	2.53	0.42
1:K:404:GLN:O	1:K:404:GLN:HG2	2.18	0.42
1:L:480:GLN:NE2	1:Q:492:GLN:NE2	2.64	0.42
1:N:485:ALA:HA	1:T:505:ARG:NE	2.35	0.42
1:P:77:THR:HG21	1:P:436:LEU:CD2	2.49	0.42
1:Q:419:LEU:O	1:Q:420:GLN:C	2.62	0.42
1:S:49:ILE:HG21	1:S:464:ILE:CD1	2.50	0.42
1:S:77:THR:CG2	1:S:436:LEU:HD21	2.48	0.42
1:S:321:TYR:CE2	1:S:380:LYS:HE3	2.48	0.42
1:S:419:LEU:O	1:S:420:GLN:C	2.62	0.42
1:W:155:ILE:HB	1:W:443:PHE:CE1	2.50	0.42
1:W:321:TYR:CE2	1:W:380:LYS:CE	3.03	0.42
1:A:38:ASN:ND2	1:A:41:LYS:NZ	2.53	0.42
1:E:93:GLU:HG3	1:P:62:GLN:CB	2.49	0.42
1:E:485:ALA:HB1	1:K:505:ARG:CD	2.50	0.42
1:F:321:TYR:CE2	1:F:380:LYS:CE	3.03	0.42
1:G:94:LEU:HD23	1:G:94:LEU:HA	1.86	0.42
1:J:419:LEU:O	1:J:422:ILE:N	2.48	0.42
1:L:485:ALA:HA	1:R:505:ARG:NE	2.35	0.42
1:N:38:ASN:ND2	1:N:41:LYS:NZ	2.53	0.42
1:N:160:LYS:O	1:N:162:ILE:HG13	2.20	0.42
1:R:155:ILE:CB	1:R:443:PHE:HE1	2.30	0.42
1:R:173:ASN:CG	1:R:411:ALA:HB3	2.24	0.42
1:W:77:THR:CG2	1:W:436:LEU:HD21	2.48	0.42
1:A:481:ILE:HG12	1:G:498:GLN:CB	2.50	0.42
1:C:469:TYR:CB	1:N:501:LEU:CD2	2.96	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:77:THR:HG21	1:E:436:LEU:CD2	2.49	0.42
1:F:480:GLN:NE2	1:K:492:GLN:NE2	2.63	0.42
1:H:36:ARG:O	1:H:41:LYS:CG	2.66	0.42
1:I:94:LEU:HD23	1:I:94:LEU:HA	1.87	0.42
1:J:160:LYS:O	1:J:162:ILE:HG13	2.20	0.42
1:J:470:ALA:HB3	1:P:14:GLN:HE21	1.84	0.42
1:K:419:LEU:O	1:K:420:GLN:C	2.62	0.42
1:K:441:ASN:ND2	1:W:43:ASP:OD1	2.53	0.42
1:K:469:TYR:HB2	1:W:501:LEU:CD2	2.50	0.42
1:L:28:ILE:HG23	1:Q:489:VAL:HG11	2.00	0.42
1:N:321:TYR:CE2	1:N:380:LYS:CE	3.03	0.42
1:O:160:LYS:O	1:O:162:ILE:HG13	2.20	0.42
1:O:360:TYR:OH	1:O:386:ILE:HG13	2.10	0.42
1:O:364:ASP:CB	1:O:402:LYS:NZ	2.62	0.42
1:P:321:TYR:CE2	1:P:380:LYS:CE	3.03	0.42
1:R:30:ARG:CG	1:R:41:LYS:HZ3	2.33	0.42
1:T:321:TYR:CE2	1:T:380:LYS:CE	3.03	0.42
1:T:321:TYR:CE2	1:T:380:LYS:HE3	2.48	0.42
1:U:49:ILE:HG21	1:U:464:ILE:CD1	2.50	0.42
1:A:36:ARG:O	1:A:41:LYS:CG	2.66	0.41
1:A:107:ASP:CG	1:Q:49:ILE:HD11	2.44	0.41
1:A:145:ILE:CG2	1:A:147:VAL:CG2	2.95	0.41
1:B:175:GLN:HB3	1:B:378:ASP:OD1	2.19	0.41
1:B:485:ALA:HA	1:H:505:ARG:NE	2.35	0.41
1:C:470:ALA:HB3	1:I:14:GLN:HE21	1.85	0.41
1:D:481:ILE:HD11	1:J:498:GLN:HB3	2.00	0.41
1:G:314:ALA:CB	1:G:337:ALA:HA	2.24	0.41
1:G:404:GLN:O	1:G:404:GLN:HG2	2.19	0.41
1:H:430:ASP:OD1	1:S:51:ASN:ND2	2.53	0.41
1:J:404:GLN:O	1:J:404:GLN:HG2	2.19	0.41
1:L:175:GLN:O	1:L:378:ASP:OD1	2.37	0.41
1:M:28:ILE:HG23	1:R:489:VAL:HG11	2.01	0.41
1:M:419:LEU:O	1:M:420:GLN:C	2.62	0.41
1:O:419:LEU:O	1:O:422:ILE:N	2.48	0.41
1:P:480:GLN:NE2	1:U:492:GLN:NE2	2.63	0.41
1:R:160:LYS:O	1:R:162:ILE:HG13	2.20	0.41
1:S:314:ALA:CB	1:S:337:ALA:HA	2.24	0.41
1:T:395:LYS:HD2	1:T:395:LYS:HA	1.80	0.41
1:W:36:ARG:O	1:W:41:LYS:CG	2.66	0.41
1:W:160:LYS:O	1:W:162:ILE:HG13	2.20	0.41
1:B:36:ARG:O	1:B:41:LYS:CG	2.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:481:ILE:HD11	1:H:498:GLN:HB3	2.01	0.41
1:D:419:LEU:O	1:D:420:GLN:C	2.62	0.41
1:E:430:ASP:OD1	1:P:51:ASN:ND2	2.53	0.41
1:F:35:LEU:HD21	1:Q:5:ASN:HD21	1.69	0.41
1:F:360:TYR:OH	1:F:386:ILE:HG13	2.10	0.41
1:G:175:GLN:O	1:G:378:ASP:OD1	2.37	0.41
1:H:321:TYR:CE2	1:H:380:LYS:CE	3.03	0.41
1:I:346:TYR:HD1	1:I:353:ILE:HG13	1.86	0.41
1:J:49:ILE:HG21	1:J:464:ILE:CD1	2.49	0.41
1:J:321:TYR:CE2	1:J:380:LYS:CE	3.03	0.41
1:K:130:GLN:CD	1:P:150:ASN:ND2	2.76	0.41
1:K:314:ALA:CB	1:K:337:ALA:HA	2.24	0.41
1:L:321:TYR:CE2	1:L:380:LYS:CE	3.03	0.41
1:L:346:TYR:HD1	1:L:353:ILE:HG13	1.86	0.41
1:P:419:LEU:O	1:P:422:ILE:N	2.48	0.41
1:S:36:ARG:O	1:S:41:LYS:CG	2.66	0.41
1:S:160:LYS:O	1:S:162:ILE:HG13	2.20	0.41
1:S:175:GLN:O	1:S:378:ASP:OD1	2.37	0.41
1:U:160:LYS:O	1:U:162:ILE:HG13	2.20	0.41
1:W:77:THR:HG21	1:W:436:LEU:CD2	2.49	0.41
1:B:321:TYR:CE2	1:B:380:LYS:HE3	2.48	0.41
1:C:49:ILE:HG21	1:C:464:ILE:CD1	2.50	0.41
1:C:321:TYR:CE2	1:C:380:LYS:HE3	2.48	0.41
1:C:485:ALA:HA	1:I:505:ARG:NE	2.35	0.41
1:G:35:LEU:CD2	1:R:5:ASN:CG	2.90	0.41
1:I:470:ALA:HB3	1:O:14:GLN:HE21	1.85	0.41
1:K:81:LEU:HA	1:K:81:LEU:HD23	1.69	0.41
1:L:81:LEU:HD23	1:L:81:LEU:HA	1.69	0.41
1:M:145:ILE:O	1:M:154:THR:CA	2.39	0.41
1:M:314:ALA:CB	1:M:337:ALA:HA	2.24	0.41
1:M:346:TYR:HD1	1:M:353:ILE:HG13	1.85	0.41
1:P:346:TYR:HD1	1:P:353:ILE:HG13	1.86	0.41
1:R:321:TYR:CE2	1:R:380:LYS:CE	3.03	0.41
1:T:346:TYR:HD1	1:T:353:ILE:HG13	1.85	0.41
1:C:155:ILE:HB	1:C:443:PHE:CE1	2.50	0.41
1:C:175:GLN:O	1:C:378:ASP:OD1	2.37	0.41
1:D:321:TYR:CE2	1:D:380:LYS:CE	3.03	0.41
1:D:485:ALA:CB	1:J:505:ARG:CD	2.98	0.41
1:E:346:TYR:HD1	1:E:353:ILE:HG13	1.85	0.41
1:F:404:GLN:O	1:F:404:GLN:HG2	2.18	0.41
1:G:28:ILE:HG23	1:L:489:VAL:HG11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:49:ILE:HG21	1:H:464:ILE:CD1	2.50	0.41
1:H:175:GLN:O	1:H:378:ASP:OD1	2.37	0.41
1:H:358:THR:CG2	1:H:360:TYR:HD2	2.28	0.41
1:J:77:THR:HG21	1:J:436:LEU:CD2	2.49	0.41
1:J:419:LEU:O	1:J:420:GLN:C	2.62	0.41
1:K:346:TYR:HD1	1:K:353:ILE:HG13	1.85	0.41
1:K:470:ALA:HB3	1:Q:14:GLN:HE21	1.84	0.41
1:L:77:THR:CG2	1:L:436:LEU:HD21	2.48	0.41
1:N:481:ILE:HG12	1:T:498:GLN:CB	2.50	0.41
1:O:49:ILE:HG21	1:O:464:ILE:CD1	2.49	0.41
1:P:470:ALA:HB1	1:W:14:GLN:HG3	2.03	0.41
1:R:419:LEU:O	1:R:420:GLN:C	2.62	0.41
1:T:112:GLN:HE21	1:T:116:THR:HG23	1.86	0.41
1:U:94:LEU:HD23	1:U:94:LEU:HA	1.87	0.41
1:W:346:TYR:HD1	1:W:353:ILE:HG13	1.85	0.41
1:A:314:ALA:CB	1:A:337:ALA:HA	2.24	0.41
1:A:346:TYR:HD1	1:A:353:ILE:HG13	1.85	0.41
1:B:395:LYS:HA	1:B:395:LYS:HD2	1.81	0.41
1:C:404:GLN:O	1:C:404:GLN:HG2	2.19	0.41
1:C:432:LEU:HD23	1:C:432:LEU:O	2.21	0.41
1:D:155:ILE:HB	1:D:443:PHE:CE1	2.50	0.41
1:E:97:GLN:OE1	1:U:45:ALA:HB1	2.21	0.41
1:E:395:LYS:HA	1:E:395:LYS:HD2	1.81	0.41
1:E:481:ILE:HD11	1:K:498:GLN:HB3	2.03	0.41
1:F:430:ASP:OD1	1:Q:51:ASN:ND2	2.53	0.41
1:I:49:ILE:HG21	1:I:464:ILE:CD1	2.50	0.41
1:I:145:ILE:O	1:I:154:THR:CA	2.39	0.41
1:I:485:ALA:HA	1:O:505:ARG:NE	2.36	0.41
1:K:321:TYR:CE2	1:K:380:LYS:HE3	2.48	0.41
1:M:432:LEU:HD23	1:M:432:LEU:O	2.21	0.41
1:N:175:GLN:O	1:N:378:ASP:OD1	2.37	0.41
1:N:470:ALA:HB1	1:T:14:GLN:HG3	2.02	0.41
1:O:346:TYR:HD1	1:O:353:ILE:HG13	1.85	0.41
1:R:60:LEU:HD23	1:R:60:LEU:HA	1.87	0.41
1:R:175:GLN:O	1:R:378:ASP:OD1	2.37	0.41
1:S:346:TYR:HD1	1:S:353:ILE:HG13	1.86	0.41
1:T:81:LEU:HD13	1:T:432:LEU:HD22	1.92	0.41
1:U:145:ILE:CG2	1:U:147:VAL:CG2	2.95	0.41
1:U:405:PRO:O	1:U:406:GLU:CG	2.66	0.41
1:W:120:ASN:ND2	1:W:395:LYS:HZ2	2.19	0.41
1:A:94:LEU:HD23	1:A:94:LEU:HA	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:38:ASN:ND2	1:B:41:LYS:NZ	2.53	0.41
1:B:81:LEU:HD13	1:B:432:LEU:HD22	1.92	0.41
1:B:321:TYR:CE2	1:B:380:LYS:CE	3.03	0.41
1:E:360:TYR:HE1	1:E:362:ALA:HB2	1.82	0.41
1:F:77:THR:HG21	1:F:436:LEU:CD2	2.49	0.41
1:G:480:GLN:NE2	1:L:492:GLN:NE2	2.64	0.41
1:H:93:GLU:HG3	1:S:62:GLN:CB	2.50	0.41
1:H:346:TYR:HD1	1:H:353:ILE:HG13	1.85	0.41
1:J:77:THR:CG2	1:J:436:LEU:HD21	2.48	0.41
1:K:28:ILE:HG23	1:P:489:VAL:HG11	2.02	0.41
1:Q:36:ARG:O	1:Q:41:LYS:CG	2.66	0.41
1:Q:94:LEU:HD23	1:Q:94:LEU:HA	1.87	0.41
1:T:155:ILE:HB	1:T:443:PHE:CE1	2.50	0.41
1:T:360:TYR:OH	1:T:386:ILE:HG13	2.10	0.41
1:U:145:ILE:HG22	1:U:147:VAL:CG2	2.33	0.41
1:U:360:TYR:HE1	1:U:362:ALA:HB2	1.82	0.41
1:B:112:GLN:HE21	1:B:116:THR:HG23	1.86	0.41
1:B:120:ASN:ND2	1:B:395:LYS:HZ2	2.19	0.41
1:D:112:GLN:HE21	1:D:116:THR:HG23	1.86	0.41
1:D:160:LYS:O	1:D:162:ILE:HG13	2.20	0.41
1:D:404:GLN:O	1:D:404:GLN:HG2	2.18	0.41
1:E:120:ASN:ND2	1:E:395:LYS:HZ2	2.17	0.41
1:E:466:ASP:CG	1:P:5:ASN:HB3	2.45	0.41
1:F:160:LYS:O	1:F:162:ILE:HG13	2.20	0.41
1:F:419:LEU:O	1:F:422:ILE:N	2.48	0.41
1:F:485:ALA:HB1	1:L:505:ARG:HD3	2.01	0.41
1:G:77:THR:CG2	1:G:436:LEU:HD21	2.47	0.41
1:G:358:THR:CG2	1:G:360:TYR:HD2	2.28	0.41
1:H:130:GLN:OE1	1:M:150:ASN:ND2	2.39	0.41
1:I:155:ILE:HB	1:I:443:PHE:CE1	2.50	0.41
1:I:178:TYR:CE2	1:I:378:ASP:HB3	2.49	0.41
1:I:485:ALA:CB	1:O:505:ARG:CD	2.98	0.41
1:J:481:ILE:HG12	1:P:498:GLN:CB	2.51	0.41
1:M:112:GLN:HE21	1:M:116:THR:HG23	1.86	0.41
1:O:77:THR:HG21	1:O:436:LEU:CD2	2.49	0.41
1:O:112:GLN:HE21	1:O:116:THR:HG23	1.86	0.41
1:O:145:ILE:CG2	1:O:147:VAL:CG2	2.95	0.41
1:O:470:ALA:HB3	1:U:14:GLN:HE21	1.86	0.41
1:P:155:ILE:CB	1:P:443:PHE:HE1	2.30	0.41
1:S:432:LEU:HD23	1:S:432:LEU:O	2.21	0.41
1:T:432:LEU:HD23	1:T:432:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:77:THR:HG21	1:U:436:LEU:CD2	2.49	0.41
1:U:112:GLN:HE21	1:U:116:THR:HG23	1.86	0.41
1:W:38:ASN:ND2	1:W:41:LYS:NZ	2.53	0.41
1:W:112:GLN:HE21	1:W:116:THR:HG23	1.86	0.41
1:A:112:GLN:HE21	1:A:116:THR:HG23	1.86	0.41
1:A:155:ILE:HB	1:A:443:PHE:CE1	2.50	0.41
1:B:346:TYR:HD1	1:B:353:ILE:HG13	1.86	0.41
1:B:432:LEU:HD23	1:B:432:LEU:O	2.21	0.41
1:C:145:ILE:HG22	1:C:147:VAL:CG2	2.33	0.41
1:E:145:ILE:CG2	1:E:147:VAL:CG2	2.95	0.41
1:F:35:LEU:HD23	1:Q:5:ASN:HD22	1.81	0.41
1:G:36:ARG:O	1:G:41:LYS:CG	2.66	0.41
1:G:346:TYR:HD1	1:G:353:ILE:HG13	1.85	0.41
1:G:485:ALA:HB1	1:M:505:ARG:HD3	2.02	0.41
1:H:28:ILE:HG12	1:M:489:VAL:HG13	2.01	0.41
1:L:36:ARG:O	1:L:41:LYS:CG	2.66	0.41
1:L:485:ALA:CB	1:R:505:ARG:CD	2.99	0.41
1:M:81:LEU:HA	1:M:81:LEU:HD23	1.69	0.41
1:M:175:GLN:O	1:M:378:ASP:OD1	2.37	0.41
1:N:36:ARG:N	1:N:465:GLU:O	2.48	0.41
1:N:145:ILE:CG2	1:N:147:VAL:CG2	2.95	0.41
1:N:346:TYR:HD1	1:N:353:ILE:HG13	1.86	0.41
1:O:395:LYS:HD2	1:O:395:LYS:HA	1.81	0.41
1:P:65:ARG:NH2	1:U:36:ARG:NH2	2.68	0.41
1:B:94:LEU:HD23	1:B:94:LEU:HA	1.86	0.41
1:B:155:ILE:CB	1:B:443:PHE:HE1	2.30	0.41
1:C:28:ILE:HG23	1:H:489:VAL:HG11	2.02	0.41
1:C:346:TYR:HD1	1:C:353:ILE:HG13	1.86	0.41
1:D:346:TYR:HD1	1:D:353:ILE:HG13	1.85	0.41
1:D:481:ILE:HG12	1:J:498:GLN:CB	2.51	0.41
1:F:65:ARG:NH2	1:K:36:ARG:NH2	2.69	0.41
1:F:481:ILE:CG1	1:L:498:GLN:HB3	2.51	0.41
1:H:130:GLN:CD	1:M:150:ASN:ND2	2.75	0.41
1:H:160:LYS:O	1:H:162:ILE:HG13	2.20	0.41
1:H:481:ILE:CG1	1:N:498:GLN:HB3	2.51	0.41
1:I:360:TYR:OH	1:I:386:ILE:HG13	2.10	0.41
1:J:93:GLU:HG3	1:U:62:GLN:CB	2.50	0.41
1:J:346:TYR:HD1	1:J:353:ILE:HG13	1.86	0.41
1:K:77:THR:HG21	1:K:436:LEU:CD2	2.49	0.41
1:K:321:TYR:CG	1:K:380:LYS:CG	3.04	0.41
1:K:469:TYR:CE2	1:W:501:LEU:CD1	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:4:ILE:HG12	1:L:501:LEU:CD1	2.04	0.41
1:L:65:ARG:NH2	1:Q:36:ARG:NH2	2.68	0.41
1:L:432:LEU:HD23	1:L:432:LEU:O	2.21	0.41
1:P:419:LEU:O	1:P:420:GLN:C	2.62	0.41
1:Q:346:TYR:HD1	1:Q:353:ILE:HG13	1.86	0.41
1:Q:395:LYS:HA	1:Q:395:LYS:HD2	1.81	0.41
1:R:112:GLN:HE21	1:R:116:THR:HG23	1.86	0.41
1:T:49:ILE:HG21	1:T:464:ILE:CD1	2.50	0.41
1:T:81:LEU:HD23	1:T:81:LEU:HA	1.69	0.41
1:U:30:ARG:HG2	1:U:41:LYS:HZ3	1.85	0.41
1:U:346:TYR:HD1	1:U:353:ILE:HG13	1.85	0.41
1:W:145:ILE:O	1:W:154:THR:CA	2.39	0.41
1:B:404:GLN:O	1:B:404:GLN:HG2	2.18	0.41
1:D:373:GLN:CB	1:D:383:VAL:O	2.64	0.41
1:F:346:TYR:HD1	1:F:353:ILE:HG13	1.86	0.41
1:F:469:TYR:CE2	1:Q:501:LEU:CD2	2.91	0.41
1:I:112:GLN:HE21	1:I:116:THR:HG23	1.86	0.41
1:I:155:ILE:CB	1:I:443:PHE:HE1	2.30	0.41
1:I:321:TYR:CG	1:I:380:LYS:CG	3.04	0.41
1:J:441:ASN:ND2	1:U:43:ASP:OD1	2.53	0.41
1:M:36:ARG:O	1:M:41:LYS:CG	2.66	0.41
1:N:112:GLN:HE21	1:N:116:THR:HG23	1.86	0.41
1:N:432:LEU:HD23	1:N:432:LEU:O	2.21	0.41
1:P:485:ALA:HA	1:W:505:ARG:NE	2.36	0.41
1:D:49:ILE:HG21	1:D:464:ILE:CD1	2.50	0.40
1:D:321:TYR:CE2	1:D:380:LYS:HE3	2.48	0.40
1:D:432:LEU:HD23	1:D:432:LEU:O	2.21	0.40
1:F:97:GLN:OE1	1:W:45:ALA:HB1	2.21	0.40
1:G:112:GLN:HE21	1:G:116:THR:HG23	1.86	0.40
1:G:160:LYS:O	1:G:162:ILE:HG13	2.20	0.40
1:H:81:LEU:HA	1:H:81:LEU:HD23	1.69	0.40
1:H:112:GLN:HE21	1:H:116:THR:HG23	1.86	0.40
1:I:432:LEU:HD23	1:I:432:LEU:O	2.21	0.40
1:I:469:TYR:HB2	1:T:501:LEU:CD2	2.51	0.40
1:J:65:ARG:NH2	1:O:36:ARG:NH2	2.68	0.40
1:J:321:TYR:CG	1:J:380:LYS:CG	3.04	0.40
1:J:391:TYR:CE1	1:J:407:LEU:HB2	2.53	0.40
1:M:481:ILE:HG12	1:S:498:GLN:CB	2.51	0.40
1:N:49:ILE:HG21	1:N:464:ILE:CD1	2.50	0.40
1:N:60:LEU:HD23	1:N:60:LEU:HA	1.87	0.40
1:N:155:ILE:HB	1:N:443:PHE:CE1	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:77:THR:CG2	1:R:436:LEU:HD21	2.47	0.40
1:R:145:ILE:O	1:R:154:THR:CA	2.39	0.40
1:R:346:TYR:HD1	1:R:353:ILE:HG13	1.85	0.40
1:S:38:ASN:ND2	1:S:41:LYS:NZ	2.53	0.40
1:U:404:GLN:O	1:U:404:GLN:HG2	2.18	0.40
1:A:461:ARG:HE	1:A:461:ARG:HB3	1.78	0.40
1:B:469:TYR:CB	1:M:501:LEU:CD2	2.99	0.40
1:C:112:GLN:HE21	1:C:116:THR:HG23	1.86	0.40
1:C:481:ILE:HG12	1:I:498:GLN:CB	2.51	0.40
1:E:35:LEU:CD2	1:P:5:ASN:CG	2.91	0.40
1:G:81:LEU:HD21	1:G:162:ILE:CD1	2.52	0.40
1:G:481:ILE:CG1	1:M:498:GLN:HB3	2.51	0.40
1:I:130:GLN:OE1	1:N:150:ASN:ND2	2.37	0.40
1:J:436:LEU:HD12	1:J:436:LEU:HA	1.90	0.40
1:J:469:TYR:CE2	1:U:501:LEU:CD1	3.04	0.40
1:L:173:ASN:CG	1:L:411:ALA:HB3	2.24	0.40
1:O:481:ILE:HG12	1:U:498:GLN:CB	2.50	0.40
1:P:36:ARG:O	1:P:41:LYS:CG	2.66	0.40
1:P:112:GLN:HE21	1:P:116:THR:HG23	1.86	0.40
1:Q:81:LEU:HD21	1:Q:162:ILE:CD1	2.52	0.40
1:S:173:ASN:CG	1:S:411:ALA:HB3	2.24	0.40
1:S:358:THR:CG2	1:S:360:TYR:HD2	2.28	0.40
1:T:321:TYR:CG	1:T:380:LYS:CG	3.05	0.40
1:U:36:ARG:O	1:U:41:LYS:CG	2.66	0.40
1:W:321:TYR:CG	1:W:380:LYS:CG	3.05	0.40
1:A:466:ASP:CG	1:L:5:ASN:HB3	2.46	0.40
1:B:21:GLN:HB2	1:B:483:GLN:HE21	1.87	0.40
1:C:321:TYR:CG	1:C:380:LYS:CG	3.05	0.40
1:E:404:GLN:O	1:E:404:GLN:HG2	2.19	0.40
1:F:37:ILE:O	1:F:37:ILE:CG1	2.70	0.40
1:I:77:THR:HG21	1:I:436:LEU:CD2	2.49	0.40
1:J:112:GLN:HE21	1:J:116:THR:HG23	1.86	0.40
1:K:93:GLU:HG3	1:W:62:GLN:CB	2.50	0.40
1:K:145:ILE:HG22	1:K:147:VAL:CG2	2.33	0.40
1:L:81:LEU:HD21	1:L:162:ILE:CD1	2.52	0.40
1:L:373:GLN:CB	1:L:383:VAL:O	2.64	0.40
1:M:81:LEU:HD21	1:M:162:ILE:CD1	2.52	0.40
1:N:77:THR:CG2	1:N:436:LEU:HD21	2.48	0.40
1:O:155:ILE:HB	1:O:443:PHE:CE1	2.50	0.40
1:P:21:GLN:HB2	1:P:483:GLN:HE21	1.87	0.40
1:P:322:THR:OG1	1:P:328:THR:HG22	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:77:THR:HG21	1:Q:436:LEU:CD2	2.48	0.40
1:Q:112:GLN:HE21	1:Q:116:THR:HG23	1.86	0.40
1:R:36:ARG:O	1:R:41:LYS:CG	2.66	0.40
1:R:358:THR:CG2	1:R:360:TYR:HD2	2.28	0.40
1:R:432:LEU:HD23	1:R:432:LEU:O	2.21	0.40
1:S:461:ARG:HE	1:S:461:ARG:HB3	1.78	0.40
1:S:496:VAL:CB	1:S:497:PRO:HD3	2.38	0.40
1:U:321:TYR:CG	1:U:380:LYS:CG	3.05	0.40
1:C:325:ASN:OD1	1:N:133:GLY:O	2.40	0.40
1:D:56:ASN:HB3	1:D:457:LEU:HD13	2.04	0.40
1:D:469:TYR:CE2	1:O:501:LEU:CD1	3.05	0.40
1:F:81:LEU:HD21	1:F:162:ILE:CD1	2.52	0.40
1:G:432:LEU:HD23	1:G:432:LEU:O	2.21	0.40
1:G:469:TYR:HB2	1:R:501:LEU:CD2	2.51	0.40
1:K:65:ARG:NH2	1:P:36:ARG:NH2	2.69	0.40
1:L:470:ALA:HB3	1:R:14:GLN:HE21	1.85	0.40
1:M:322:THR:OG1	1:M:328:THR:HG22	2.22	0.40
1:P:30:ARG:CZ	1:P:41:LYS:HD2	2.52	0.40
1:P:481:ILE:HG12	1:W:498:GLN:CB	2.51	0.40
1:Q:321:TYR:CG	1:Q:380:LYS:CG	3.04	0.40
1:R:21:GLN:HB2	1:R:483:GLN:HE21	1.87	0.40
1:R:94:LEU:HD23	1:R:94:LEU:HA	1.87	0.40
1:S:21:GLN:HB2	1:S:483:GLN:HE21	1.87	0.40
1:S:60:LEU:HD23	1:S:60:LEU:HA	1.87	0.40
1:S:321:TYR:CG	1:S:380:LYS:CG	3.05	0.40
1:U:81:LEU:HA	1:U:81:LEU:HD23	1.69	0.40
1:W:37:ILE:O	1:W:37:ILE:CG1	2.70	0.40
1:A:81:LEU:HD21	1:A:162:ILE:CD1	2.52	0.40
1:C:60:LEU:HD23	1:C:60:LEU:HA	1.87	0.40
1:C:97:GLN:OE1	1:S:45:ALA:HB1	2.21	0.40
1:C:436:LEU:HA	1:C:436:LEU:HD12	1.90	0.40
1:D:173:ASN:HD22	1:D:377:VAL:HG23	1.75	0.40
1:E:21:GLN:HB2	1:E:483:GLN:HE21	1.87	0.40
1:F:112:GLN:HE21	1:F:116:THR:HG23	1.86	0.40
1:H:155:ILE:HB	1:H:443:PHE:CE1	2.50	0.40
1:H:441:ASN:ND2	1:S:43:ASP:OD1	2.54	0.40
1:I:325:ASN:OD1	1:T:133:GLY:O	2.40	0.40
1:K:21:GLN:HB2	1:K:483:GLN:HE21	1.87	0.40
1:N:56:ASN:HB3	1:N:457:LEU:HD13	2.04	0.40
1:N:322:THR:OG1	1:N:328:THR:HG22	2.22	0.40
1:Q:360:TYR:OH	1:Q:386:ILE:HG13	2.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:145:ILE:HG22	1:T:147:VAL:CG2	2.32	0.40
1:U:37:ILE:O	1:U:37:ILE:CG1	2.70	0.40
1:W:21:GLN:HB2	1:W:483:GLN:HE21	1.87	0.40
1:W:56:ASN:HB3	1:W:457:LEU:HD13	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	406/506 (80%)	380 (94%)	22 (5%)	4 (1%)	13	47
1	B	406/506 (80%)	380 (94%)	22 (5%)	4 (1%)	13	47
1	C	406/506 (80%)	380 (94%)	23 (6%)	3 (1%)	19	53
1	D	406/506 (80%)	380 (94%)	22 (5%)	4 (1%)	13	47
1	E	406/506 (80%)	380 (94%)	22 (5%)	4 (1%)	13	47
1	F	406/506 (80%)	380 (94%)	23 (6%)	3 (1%)	19	53
1	G	406/506 (80%)	380 (94%)	22 (5%)	4 (1%)	13	47
1	H	406/506 (80%)	381 (94%)	21 (5%)	4 (1%)	13	47
1	I	406/506 (80%)	380 (94%)	22 (5%)	4 (1%)	13	47
1	J	406/506 (80%)	380 (94%)	23 (6%)	3 (1%)	19	53
1	K	406/506 (80%)	380 (94%)	22 (5%)	4 (1%)	13	47
1	L	406/506 (80%)	380 (94%)	22 (5%)	4 (1%)	13	47
1	M	406/506 (80%)	380 (94%)	22 (5%)	4 (1%)	13	47
1	N	406/506 (80%)	380 (94%)	22 (5%)	4 (1%)	13	47
1	O	406/506 (80%)	380 (94%)	22 (5%)	4 (1%)	13	47
1	P	406/506 (80%)	380 (94%)	22 (5%)	4 (1%)	13	47

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Q	406/506 (80%)	380 (94%)	22 (5%)	4 (1%)	13	47
1	R	406/506 (80%)	380 (94%)	22 (5%)	4 (1%)	13	47
1	S	406/506 (80%)	380 (94%)	22 (5%)	4 (1%)	13	47
1	T	406/506 (80%)	380 (94%)	23 (6%)	3 (1%)	19	53
1	U	406/506 (80%)	380 (94%)	23 (6%)	3 (1%)	19	53
1	W	406/506 (80%)	380 (94%)	23 (6%)	3 (1%)	19	53
All	All	8932/11132 (80%)	8361 (94%)	489 (6%)	82 (1%)	17	49

All (82) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	163	ASN
1	B	163	ASN
1	C	163	ASN
1	D	163	ASN
1	E	163	ASN
1	F	163	ASN
1	G	163	ASN
1	H	163	ASN
1	I	163	ASN
1	J	163	ASN
1	K	163	ASN
1	L	163	ASN
1	M	163	ASN
1	N	163	ASN
1	O	163	ASN
1	P	163	ASN
1	Q	163	ASN
1	R	163	ASN
1	S	163	ASN
1	T	163	ASN
1	U	163	ASN
1	W	163	ASN
1	A	306	VAL
1	B	306	VAL
1	C	306	VAL
1	D	306	VAL
1	E	306	VAL
1	F	306	VAL
1	G	306	VAL

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Mol	Chain	Res	Type
1	H	306	VAL
1	I	306	VAL
1	J	306	VAL
1	K	306	VAL
1	L	306	VAL
1	M	306	VAL
1	N	306	VAL
1	O	306	VAL
1	P	306	VAL
1	Q	306	VAL
1	R	306	VAL
1	S	306	VAL
1	T	306	VAL
1	U	306	VAL
1	W	306	VAL
1	B	420	GLN
1	D	420	GLN
1	E	420	GLN
1	G	420	GLN
1	I	420	GLN
1	J	420	GLN
1	K	420	GLN
1	L	420	GLN
1	M	420	GLN
1	O	420	GLN
1	Q	420	GLN
1	R	420	GLN
1	S	420	GLN
1	U	420	GLN
1	A	420	GLN
1	C	420	GLN
1	F	420	GLN
1	H	420	GLN
1	N	420	GLN
1	P	420	GLN
1	T	420	GLN
1	W	420	GLN
1	A	326	GLY
1	B	326	GLY
1	D	326	GLY
1	E	326	GLY
1	G	326	GLY

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Mol	Chain	Res	Type
1	H	326	GLY
1	I	326	GLY
1	K	326	GLY
1	L	326	GLY
1	M	326	GLY
1	N	326	GLY
1	O	326	GLY
1	P	326	GLY
1	Q	326	GLY
1	R	326	GLY
1	S	326	GLY

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	B	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	C	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	D	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	E	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	F	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	G	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	H	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	I	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	J	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	K	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	L	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	M	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	N	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	O	322/388 (83%)	316 (98%)	6 (2%)	52	73

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	P	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	Q	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	R	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	S	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	T	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	U	322/388 (83%)	316 (98%)	6 (2%)	52	73
1	W	322/388 (83%)	316 (98%)	6 (2%)	52	73
All	All	7084/8536 (83%)	6952 (98%)	132 (2%)	52	73

All (132) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	35	LEU
1	A	57	ILE
1	A	61	THR
1	A	76	THR
1	A	174	VAL
1	A	180	VAL
1	B	35	LEU
1	B	57	ILE
1	B	61	THR
1	B	76	THR
1	B	174	VAL
1	B	180	VAL
1	C	35	LEU
1	C	57	ILE
1	C	61	THR
1	C	76	THR
1	C	174	VAL
1	C	180	VAL
1	D	35	LEU
1	D	57	ILE
1	D	61	THR
1	D	76	THR
1	D	174	VAL
1	D	180	VAL
1	E	35	LEU
1	E	57	ILE
1	E	61	THR
1	E	76	THR

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Mol	Chain	Res	Type
1	E	174	VAL
1	E	180	VAL
1	F	35	LEU
1	F	57	ILE
1	F	61	THR
1	F	76	THR
1	F	174	VAL
1	F	180	VAL
1	G	35	LEU
1	G	57	ILE
1	G	61	THR
1	G	76	THR
1	G	174	VAL
1	G	180	VAL
1	H	35	LEU
1	H	57	ILE
1	H	61	THR
1	H	76	THR
1	H	174	VAL
1	H	180	VAL
1	I	35	LEU
1	I	57	ILE
1	I	61	THR
1	I	76	THR
1	I	174	VAL
1	I	180	VAL
1	J	35	LEU
1	J	57	ILE
1	J	61	THR
1	J	76	THR
1	J	174	VAL
1	J	180	VAL
1	K	35	LEU
1	K	57	ILE
1	K	61	THR
1	K	76	THR
1	K	174	VAL
1	K	180	VAL
1	L	35	LEU
1	L	57	ILE
1	L	61	THR
1	L	76	THR

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Mol	Chain	Res	Type
1	L	174	VAL
1	L	180	VAL
1	M	35	LEU
1	M	57	ILE
1	M	61	THR
1	M	76	THR
1	M	174	VAL
1	M	180	VAL
1	N	35	LEU
1	N	57	ILE
1	N	61	THR
1	N	76	THR
1	N	174	VAL
1	N	180	VAL
1	O	35	LEU
1	O	57	ILE
1	O	61	THR
1	O	76	THR
1	O	174	VAL
1	O	180	VAL
1	P	35	LEU
1	P	57	ILE
1	P	61	THR
1	P	76	THR
1	P	174	VAL
1	P	180	VAL
1	Q	35	LEU
1	Q	57	ILE
1	Q	61	THR
1	Q	76	THR
1	Q	174	VAL
1	Q	180	VAL
1	R	35	LEU
1	R	57	ILE
1	R	61	THR
1	R	76	THR
1	R	174	VAL
1	R	180	VAL
1	S	35	LEU
1	S	57	ILE
1	S	61	THR
1	S	76	THR

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Mol	Chain	Res	Type
1	S	174	VAL
1	S	180	VAL
1	T	35	LEU
1	T	57	ILE
1	T	61	THR
1	T	76	THR
1	T	174	VAL
1	T	180	VAL
1	U	35	LEU
1	U	57	ILE
1	U	61	THR
1	U	76	THR
1	U	174	VAL
1	U	180	VAL
1	W	35	LEU
1	W	57	ILE
1	W	61	THR
1	W	76	THR
1	W	174	VAL
1	W	180	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (346) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	ASN
1	A	62	GLN
1	A	75	GLN
1	A	86	ASN
1	A	100	ASN
1	A	112	GLN
1	A	120	ASN
1	A	173	ASN
1	A	175	GLN
1	A	373	GLN
1	A	392	ASN
1	A	440	GLN
1	A	480	GLN
1	B	38	ASN
1	B	62	GLN
1	B	75	GLN
1	B	86	ASN
1	B	100	ASN

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Mol	Chain	Res	Type
1	B	112	GLN
1	B	120	ASN
1	B	173	ASN
1	B	175	GLN
1	B	325	ASN
1	B	373	GLN
1	B	392	ASN
1	B	440	GLN
1	B	480	GLN
1	C	38	ASN
1	C	62	GLN
1	C	75	GLN
1	C	86	ASN
1	C	100	ASN
1	C	112	GLN
1	C	120	ASN
1	C	173	ASN
1	C	175	GLN
1	C	373	GLN
1	C	392	ASN
1	C	440	GLN
1	C	475	ASN
1	C	480	GLN
1	D	38	ASN
1	D	62	GLN
1	D	75	GLN
1	D	86	ASN
1	D	100	ASN
1	D	112	GLN
1	D	120	ASN
1	D	173	ASN
1	D	175	GLN
1	D	325	ASN
1	D	373	GLN
1	D	392	ASN
1	D	440	GLN
1	D	480	GLN
1	E	38	ASN
1	E	62	GLN
1	E	75	GLN
1	E	86	ASN
1	E	100	ASN

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Mol	Chain	Res	Type
1	E	112	GLN
1	E	120	ASN
1	E	173	ASN
1	E	175	GLN
1	E	373	GLN
1	E	392	ASN
1	E	440	GLN
1	E	475	ASN
1	E	480	GLN
1	F	38	ASN
1	F	62	GLN
1	F	75	GLN
1	F	86	ASN
1	F	100	ASN
1	F	112	GLN
1	F	120	ASN
1	F	146	GLN
1	F	173	ASN
1	F	175	GLN
1	F	373	GLN
1	F	392	ASN
1	F	440	GLN
1	F	480	GLN
1	F	492	GLN
1	G	38	ASN
1	G	62	GLN
1	G	75	GLN
1	G	85	ASN
1	G	86	ASN
1	G	100	ASN
1	G	112	GLN
1	G	120	ASN
1	G	173	ASN
1	G	175	GLN
1	G	373	GLN
1	G	392	ASN
1	G	399	HIS
1	G	440	GLN
1	G	480	GLN
1	G	492	GLN
1	H	38	ASN
1	H	62	GLN

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Mol	Chain	Res	Type
1	H	75	GLN
1	H	85	ASN
1	H	86	ASN
1	H	100	ASN
1	H	112	GLN
1	H	120	ASN
1	H	173	ASN
1	H	175	GLN
1	H	373	GLN
1	H	392	ASN
1	H	440	GLN
1	H	480	GLN
1	H	492	GLN
1	I	38	ASN
1	I	62	GLN
1	I	75	GLN
1	I	85	ASN
1	I	86	ASN
1	I	100	ASN
1	I	112	GLN
1	I	120	ASN
1	I	146	GLN
1	I	173	ASN
1	I	175	GLN
1	I	325	ASN
1	I	373	GLN
1	I	392	ASN
1	I	440	GLN
1	I	480	GLN
1	I	492	GLN
1	J	38	ASN
1	J	62	GLN
1	J	75	GLN
1	J	85	ASN
1	J	86	ASN
1	J	100	ASN
1	J	112	GLN
1	J	120	ASN
1	J	173	ASN
1	J	175	GLN
1	J	373	GLN
1	J	392	ASN

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Mol	Chain	Res	Type
1	J	440	GLN
1	J	475	ASN
1	J	480	GLN
1	J	492	GLN
1	K	38	ASN
1	K	62	GLN
1	K	75	GLN
1	K	85	ASN
1	K	86	ASN
1	K	100	ASN
1	K	112	GLN
1	K	120	ASN
1	K	173	ASN
1	K	175	GLN
1	K	325	ASN
1	K	373	GLN
1	K	392	ASN
1	K	440	GLN
1	K	475	ASN
1	K	480	GLN
1	K	492	GLN
1	L	5	ASN
1	L	38	ASN
1	L	51	ASN
1	L	75	GLN
1	L	85	ASN
1	L	86	ASN
1	L	112	GLN
1	L	120	ASN
1	L	173	ASN
1	L	175	GLN
1	L	325	ASN
1	L	373	GLN
1	L	392	ASN
1	L	440	GLN
1	L	480	GLN
1	L	492	GLN
1	L	498	GLN
1	M	5	ASN
1	M	38	ASN
1	M	51	ASN
1	M	75	GLN

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Mol	Chain	Res	Type
1	M	85	ASN
1	M	86	ASN
1	M	112	GLN
1	M	120	ASN
1	M	173	ASN
1	M	175	GLN
1	M	325	ASN
1	M	373	GLN
1	M	392	ASN
1	M	440	GLN
1	M	480	GLN
1	M	492	GLN
1	M	498	GLN
1	N	5	ASN
1	N	38	ASN
1	N	51	ASN
1	N	62	GLN
1	N	75	GLN
1	N	85	ASN
1	N	86	ASN
1	N	112	GLN
1	N	120	ASN
1	N	173	ASN
1	N	175	GLN
1	N	325	ASN
1	N	373	GLN
1	N	392	ASN
1	N	440	GLN
1	N	480	GLN
1	N	492	GLN
1	N	498	GLN
1	O	5	ASN
1	O	38	ASN
1	O	51	ASN
1	O	75	GLN
1	O	85	ASN
1	O	86	ASN
1	O	112	GLN
1	O	120	ASN
1	O	146	GLN
1	O	173	ASN
1	O	175	GLN

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Mol	Chain	Res	Type
1	O	325	ASN
1	O	373	GLN
1	O	392	ASN
1	O	440	GLN
1	O	480	GLN
1	O	492	GLN
1	P	5	ASN
1	P	38	ASN
1	P	51	ASN
1	P	62	GLN
1	P	75	GLN
1	P	85	ASN
1	P	86	ASN
1	P	112	GLN
1	P	120	ASN
1	P	173	ASN
1	P	175	GLN
1	P	325	ASN
1	P	373	GLN
1	P	440	GLN
1	P	480	GLN
1	P	492	GLN
1	Q	5	ASN
1	Q	38	ASN
1	Q	51	ASN
1	Q	62	GLN
1	Q	75	GLN
1	Q	85	ASN
1	Q	86	ASN
1	Q	112	GLN
1	Q	120	ASN
1	Q	173	ASN
1	Q	175	GLN
1	Q	325	ASN
1	Q	373	GLN
1	Q	392	ASN
1	Q	440	GLN
1	Q	480	GLN
1	Q	492	GLN
1	R	5	ASN
1	R	38	ASN
1	R	51	ASN

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Mol	Chain	Res	Type
1	R	85	ASN
1	R	86	ASN
1	R	112	GLN
1	R	120	ASN
1	R	146	GLN
1	R	173	ASN
1	R	175	GLN
1	R	325	ASN
1	R	373	GLN
1	R	392	ASN
1	R	440	GLN
1	R	492	GLN
1	R	498	GLN
1	S	5	ASN
1	S	38	ASN
1	S	51	ASN
1	S	85	ASN
1	S	86	ASN
1	S	112	GLN
1	S	120	ASN
1	S	173	ASN
1	S	175	GLN
1	S	325	ASN
1	S	373	GLN
1	S	392	ASN
1	S	440	GLN
1	S	492	GLN
1	S	498	GLN
1	T	5	ASN
1	T	38	ASN
1	T	51	ASN
1	T	62	GLN
1	T	85	ASN
1	T	86	ASN
1	T	112	GLN
1	T	120	ASN
1	T	146	GLN
1	T	173	ASN
1	T	175	GLN
1	T	325	ASN
1	T	373	GLN
1	T	392	ASN

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Mol	Chain	Res	Type
1	T	440	GLN
1	T	475	ASN
1	T	492	GLN
1	U	5	ASN
1	U	38	ASN
1	U	51	ASN
1	U	85	ASN
1	U	86	ASN
1	U	112	GLN
1	U	120	ASN
1	U	173	ASN
1	U	175	GLN
1	U	325	ASN
1	U	373	GLN
1	U	392	ASN
1	U	440	GLN
1	U	475	ASN
1	U	492	GLN
1	W	5	ASN
1	W	38	ASN
1	W	51	ASN
1	W	62	GLN
1	W	85	ASN
1	W	86	ASN
1	W	112	GLN
1	W	120	ASN
1	W	173	ASN
1	W	175	GLN
1	W	325	ASN
1	W	373	GLN
1	W	392	ASN
1	W	440	GLN
1	W	492	GLN
1	W	498	GLN

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 (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

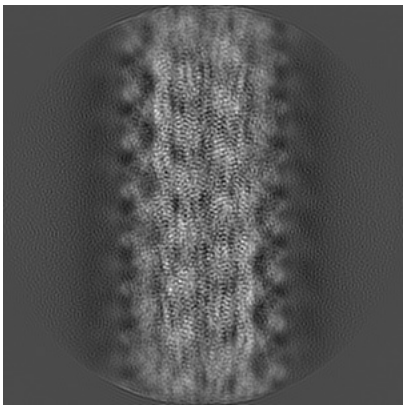
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-9896. These allow visual inspection of the internal detail of the map and identification of artifacts.

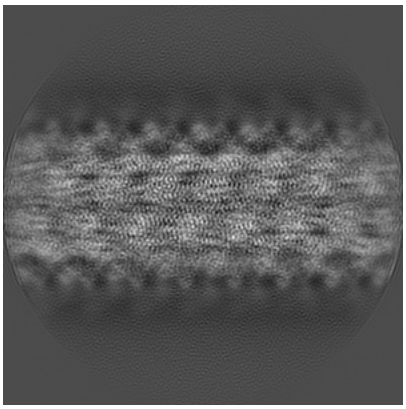
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

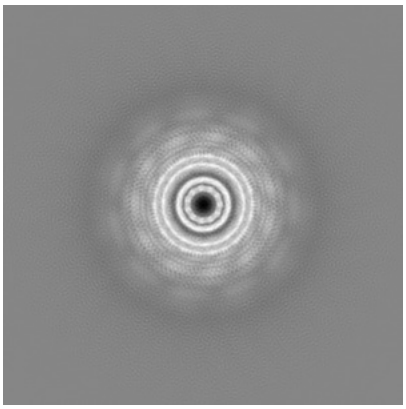
6.1.1 Primary map



X

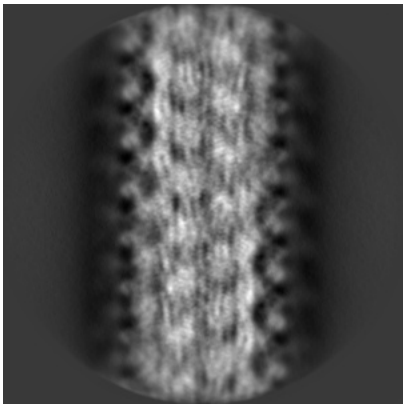


Y

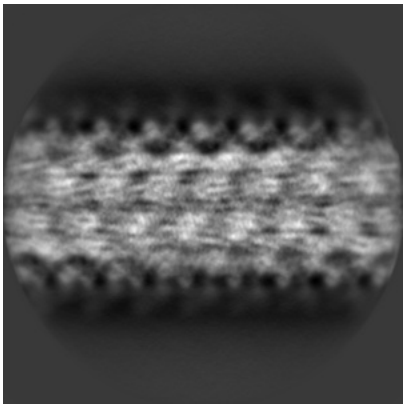


Z

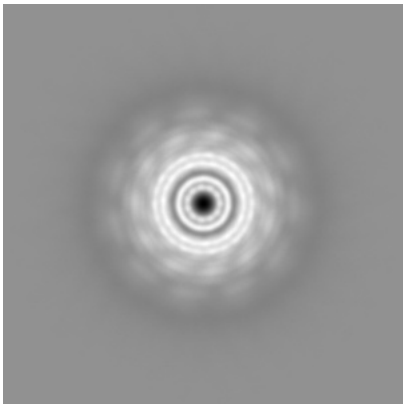
6.1.2 Raw map



X



Y

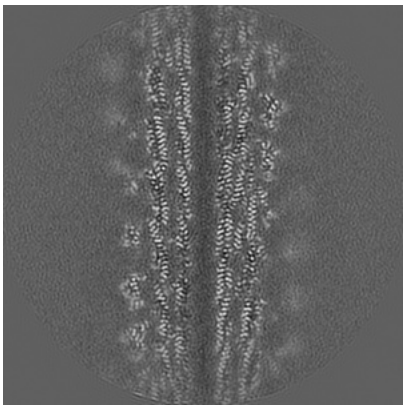


Z

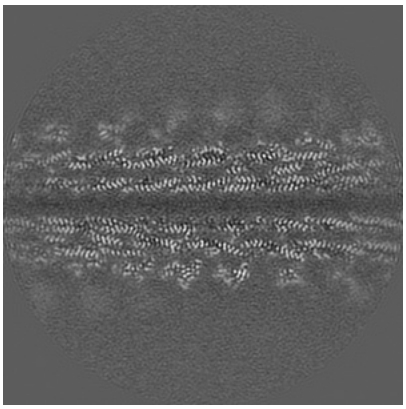
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

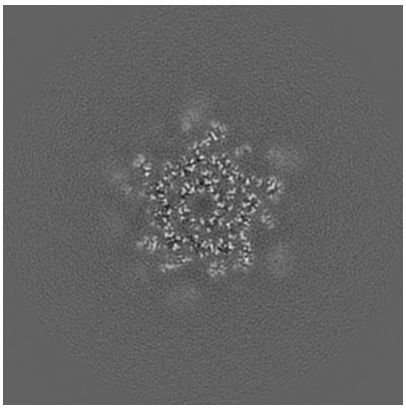
6.2.1 Primary map



X Index: 200

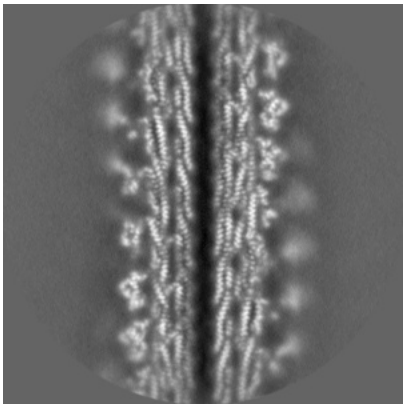


Y Index: 200

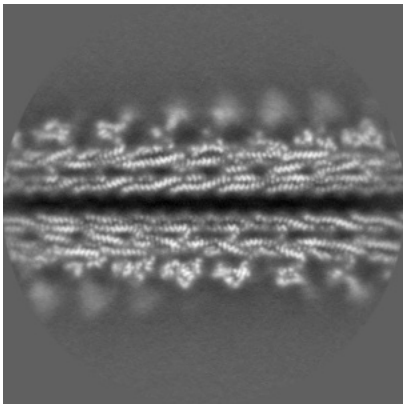


Z Index: 200

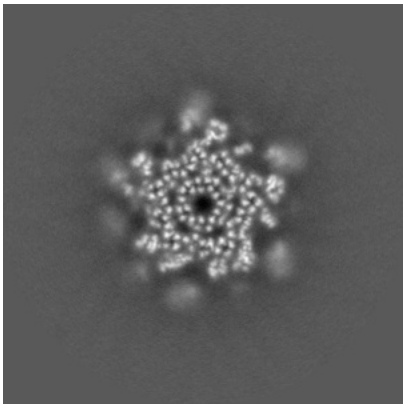
6.2.2 Raw map



X Index: 200



Y Index: 200

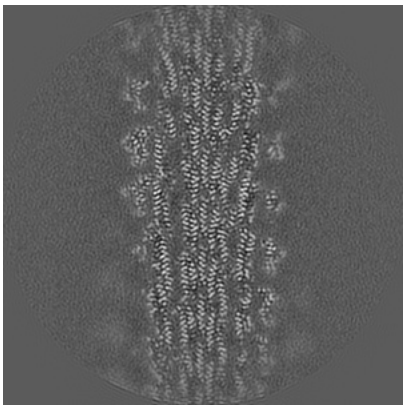


Z Index: 200

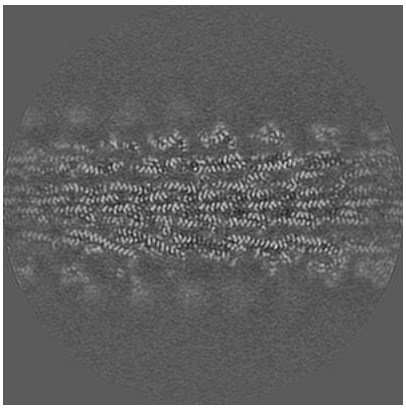
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

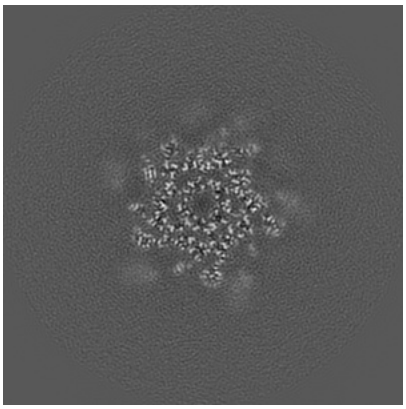
6.3.1 Primary map



X Index: 216

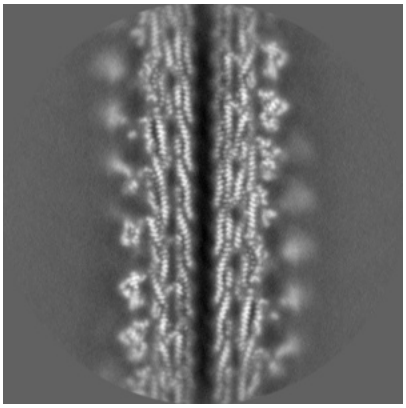


Y Index: 182

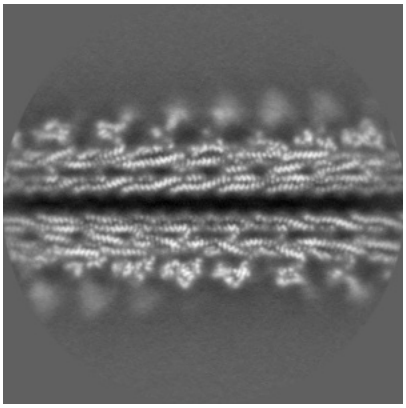


Z Index: 216

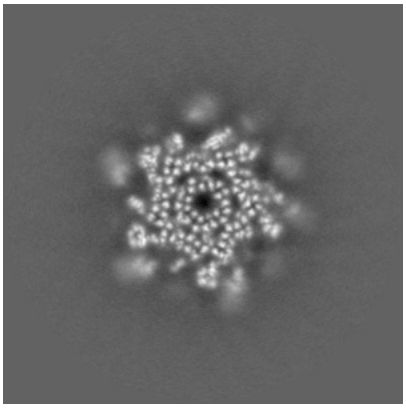
6.3.2 Raw map



X Index: 199



Y Index: 200

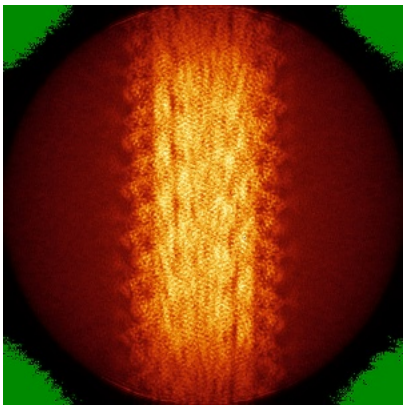


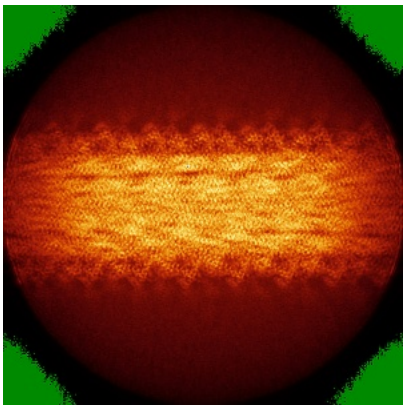
Z Index: 163

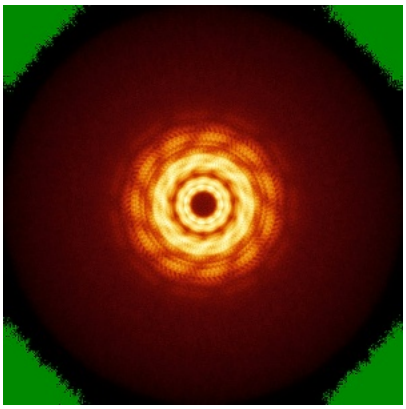
The images above show the largest variance slices of the map in three orthogonal directions.

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

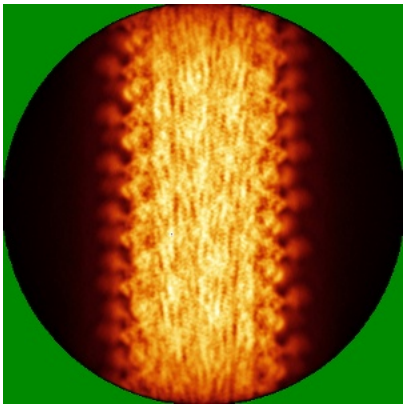
6.4.1 Primary map

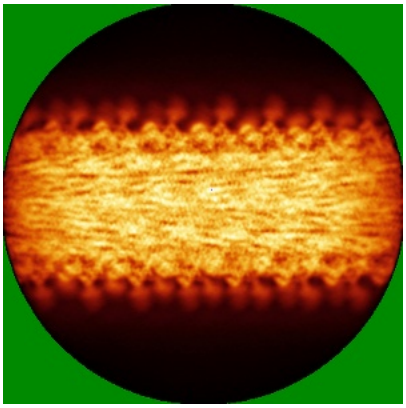

X

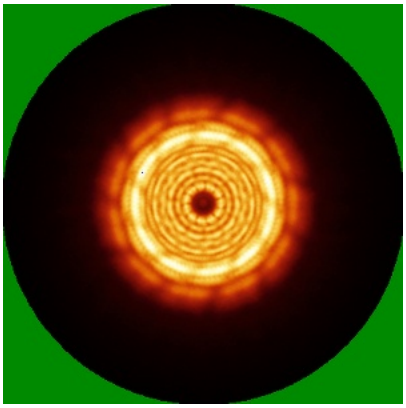

Y


Z

6.4.2 Raw map


X

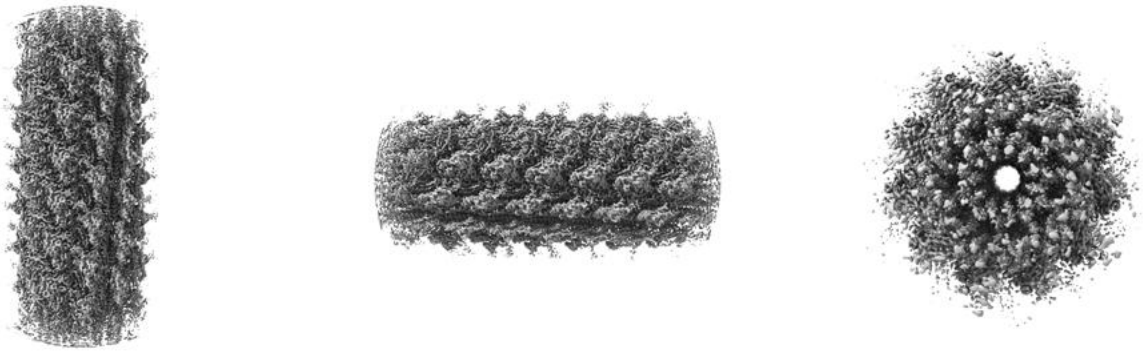

Y


Z

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

6.5 Orthogonal surface views (i)

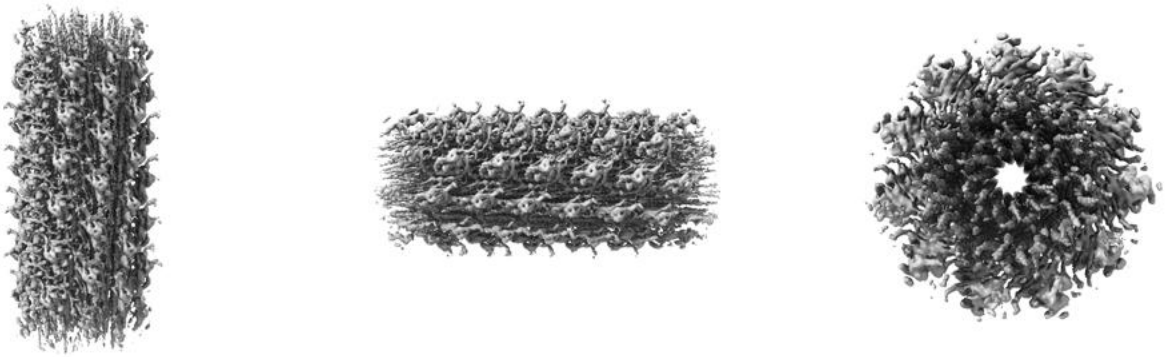
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.032. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

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

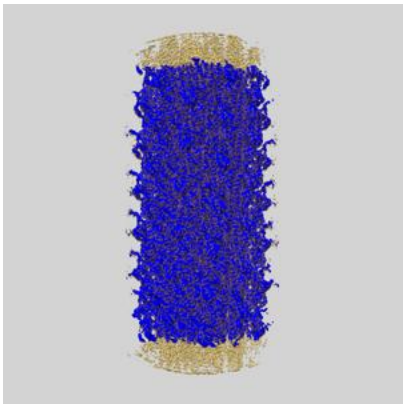
6.6 Mask visualisation (i)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

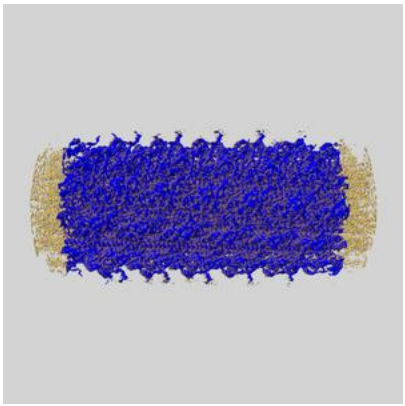
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

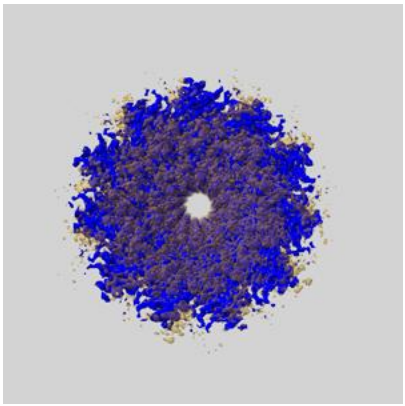
6.6.1 emd_9896_msk_1.map (i)



X



Y

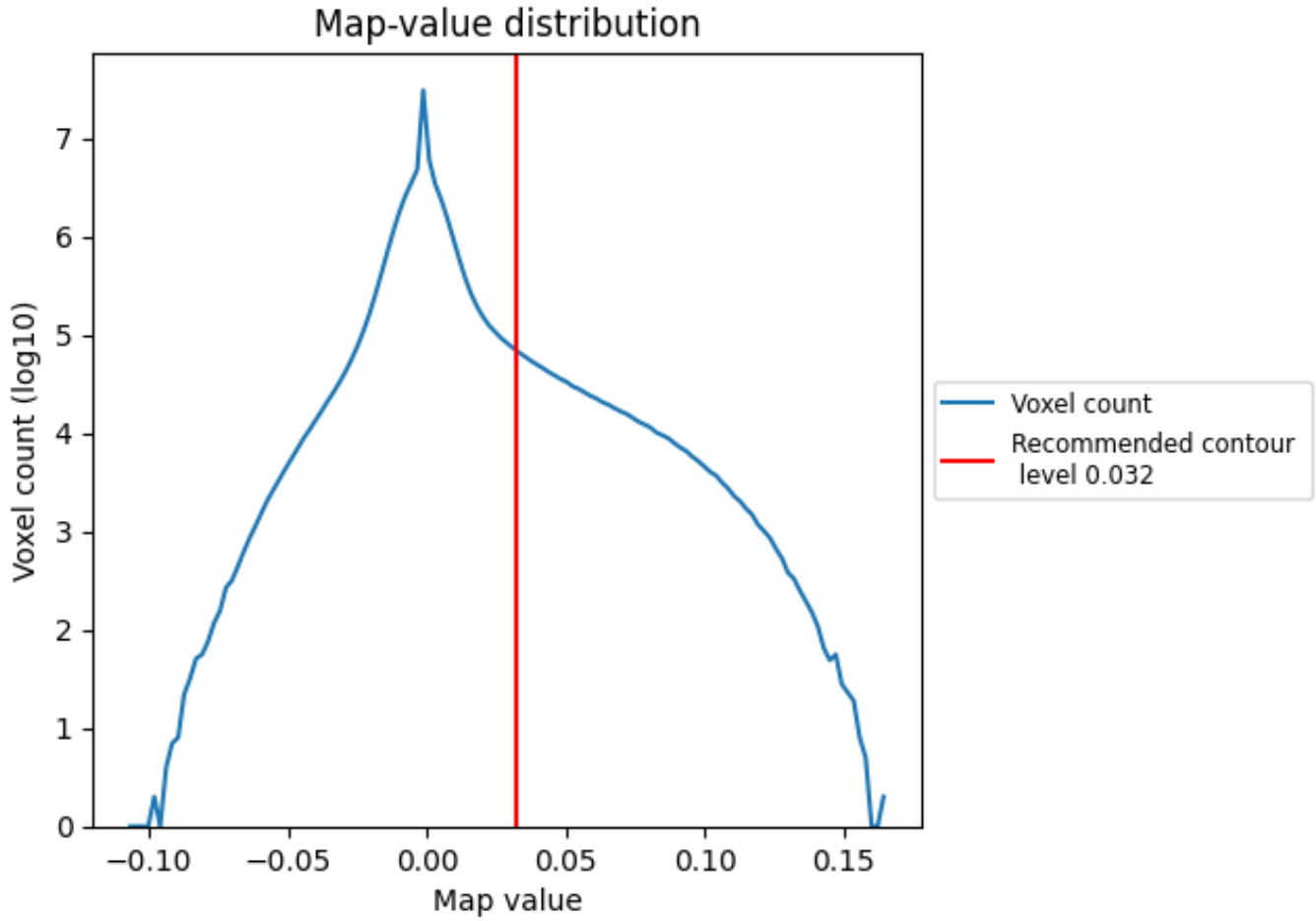


Z

7 Map analysis

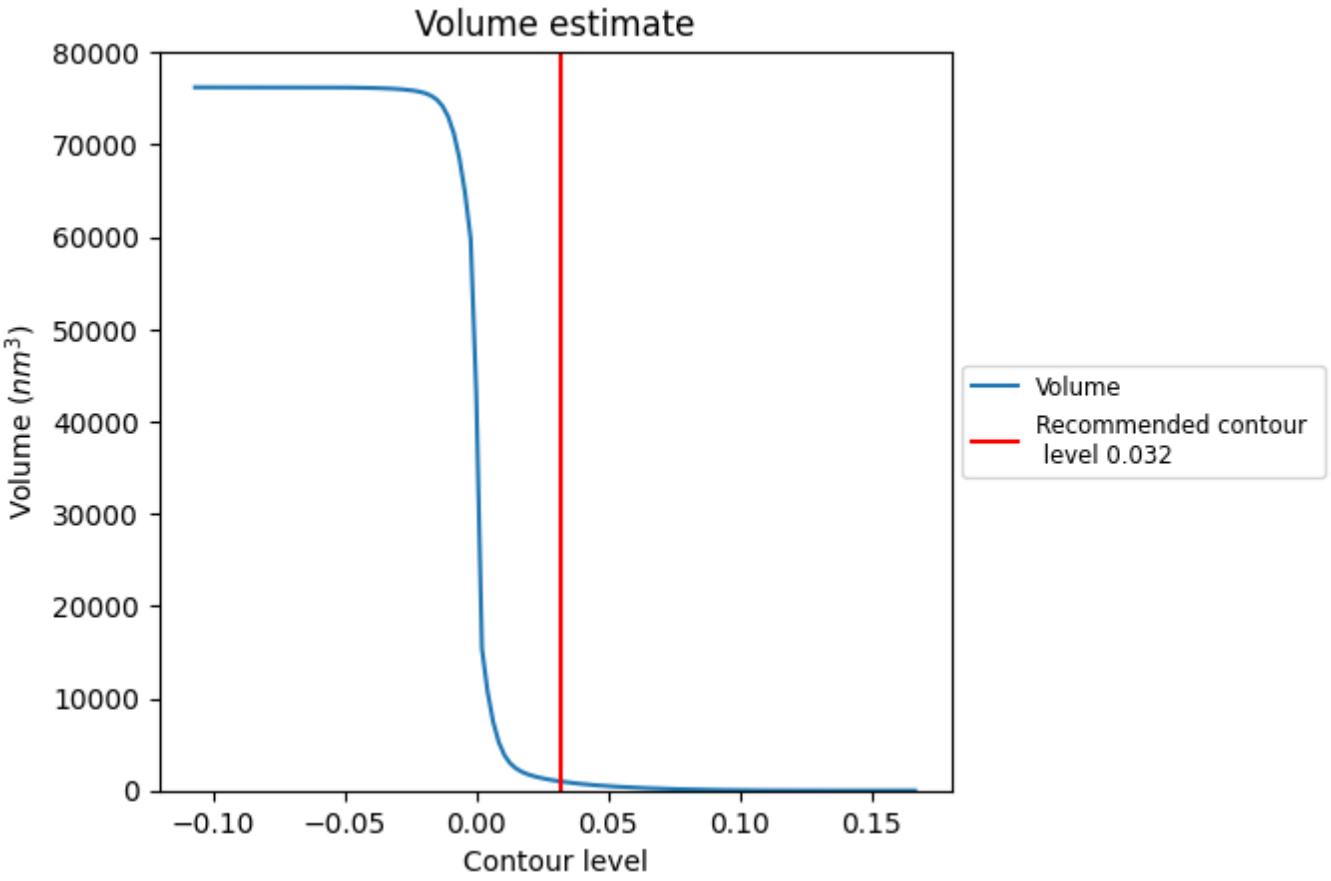
This section contains the results of statistical analysis of the map.

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.

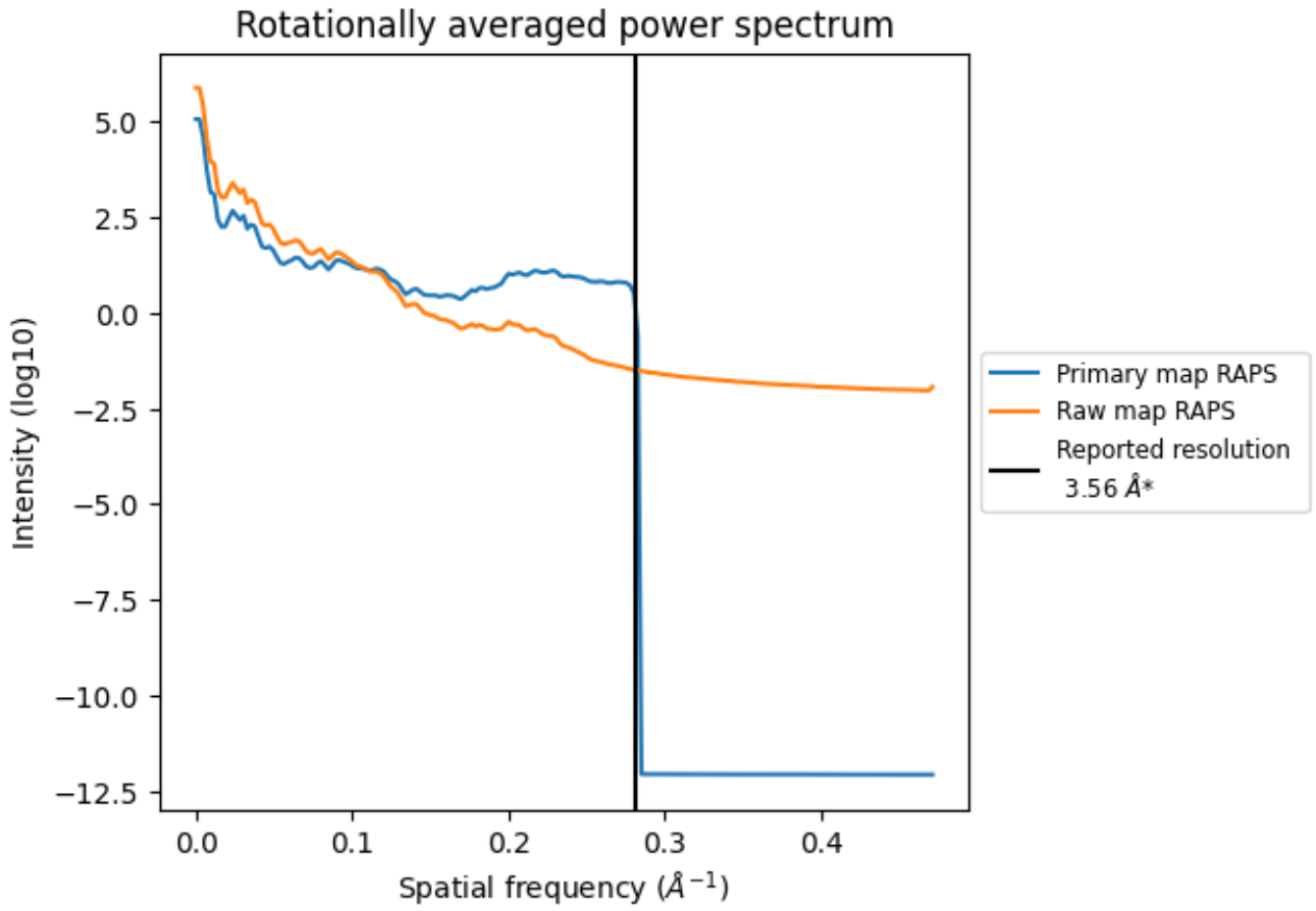
7.2 Volume estimate



The volume at the recommended contour level is 988 nm^3; this corresponds to an approximate mass of 892 kDa.

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

7.3 Rotationally averaged power spectrum (i)

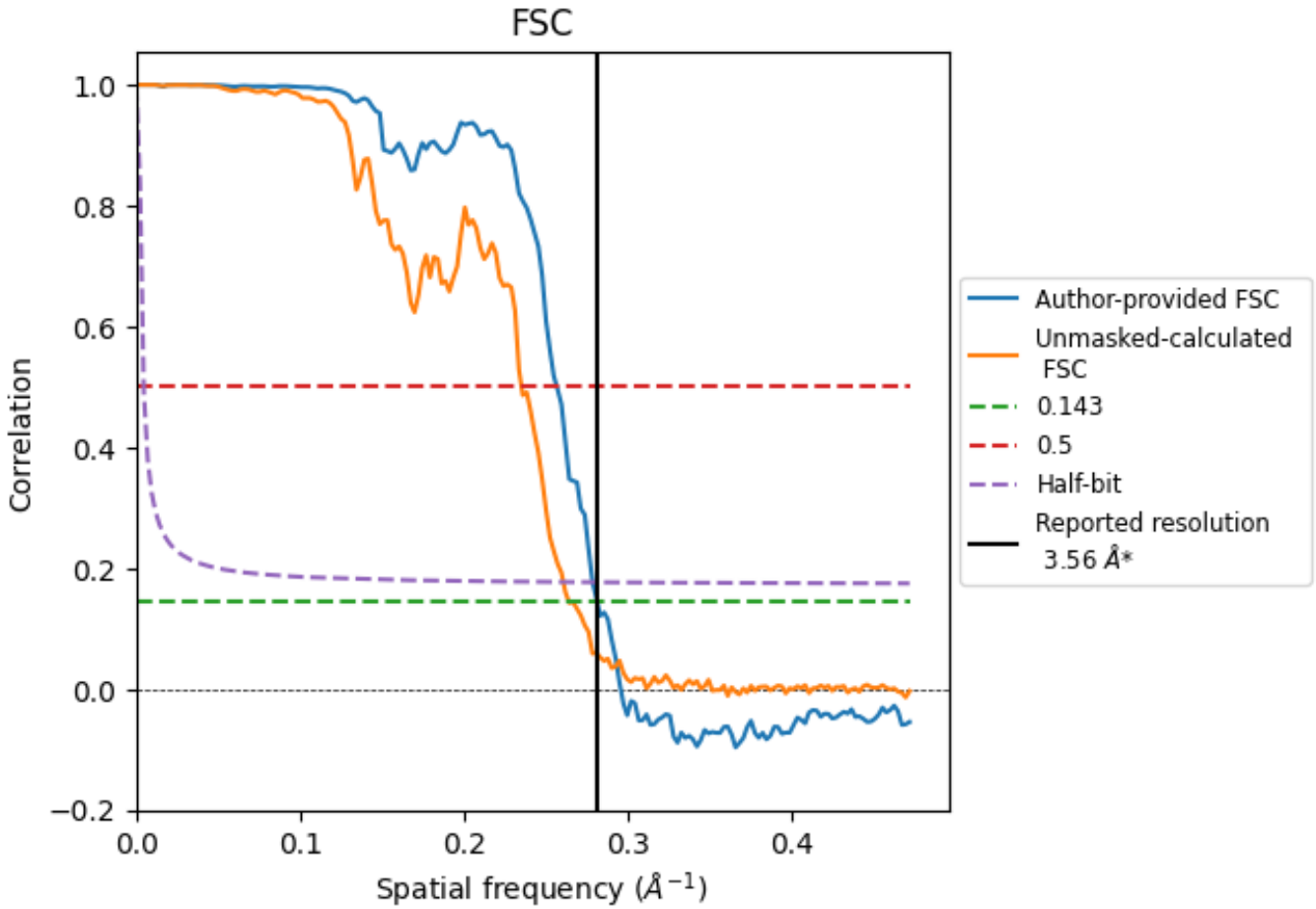


*Reported resolution corresponds to spatial frequency of 0.281 $Å^{-1}$

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.281 Å^{-1}

8.2 Resolution estimates (i)

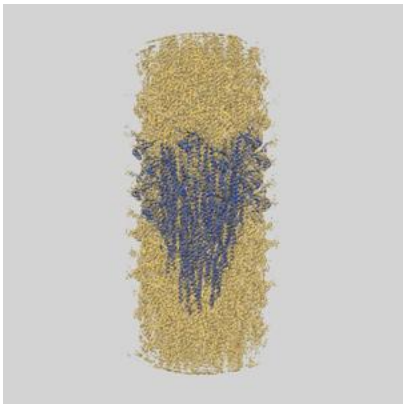
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.56	-	-
Author-provided FSC curve	3.56	3.90	3.59
Unmasked-calculated*	3.79	4.25	3.84

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

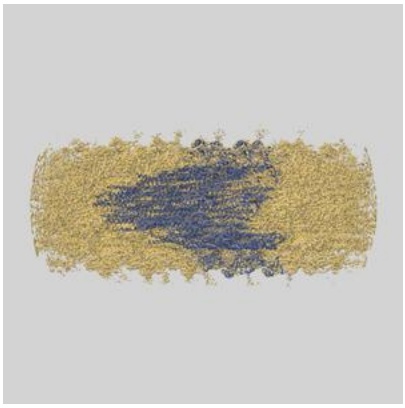
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-9896 and PDB model 6JY0. Per-residue inclusion information can be found in section 3 on page 6.

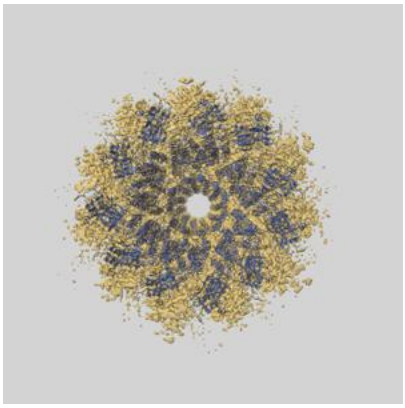
9.1 Map-model overlay



X



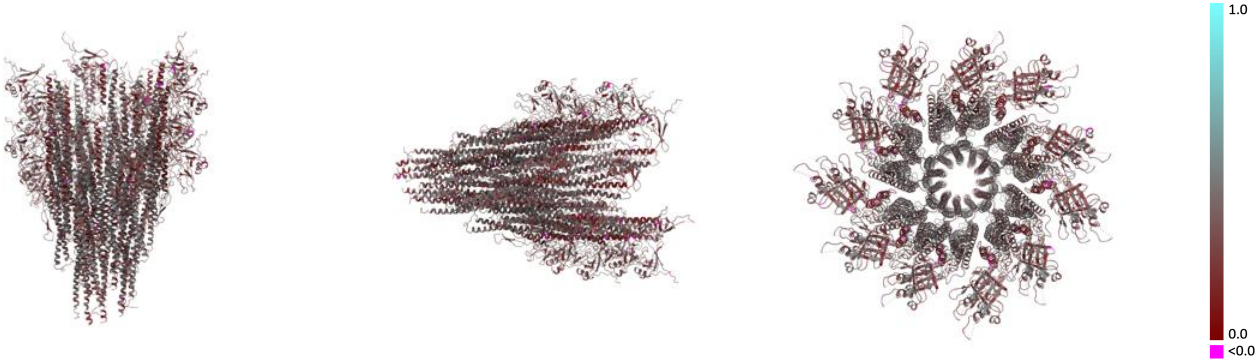
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.032 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.

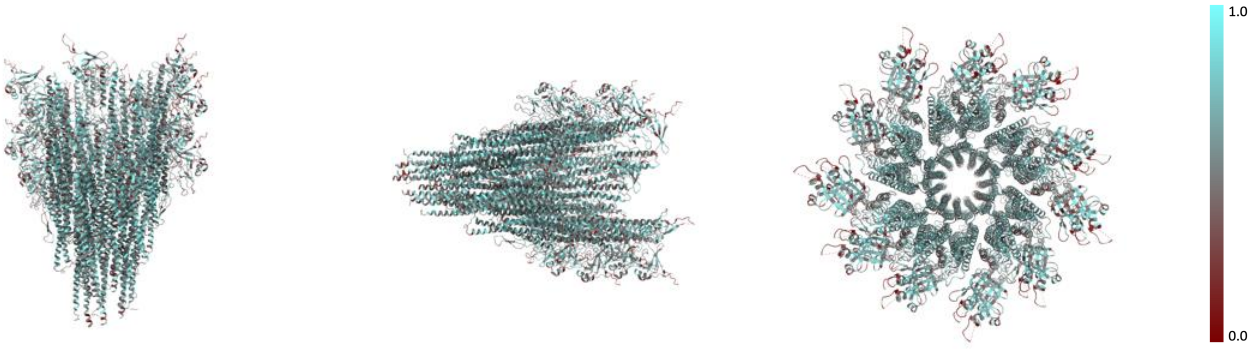
9.2 Q-score mapped to coordinate model



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.

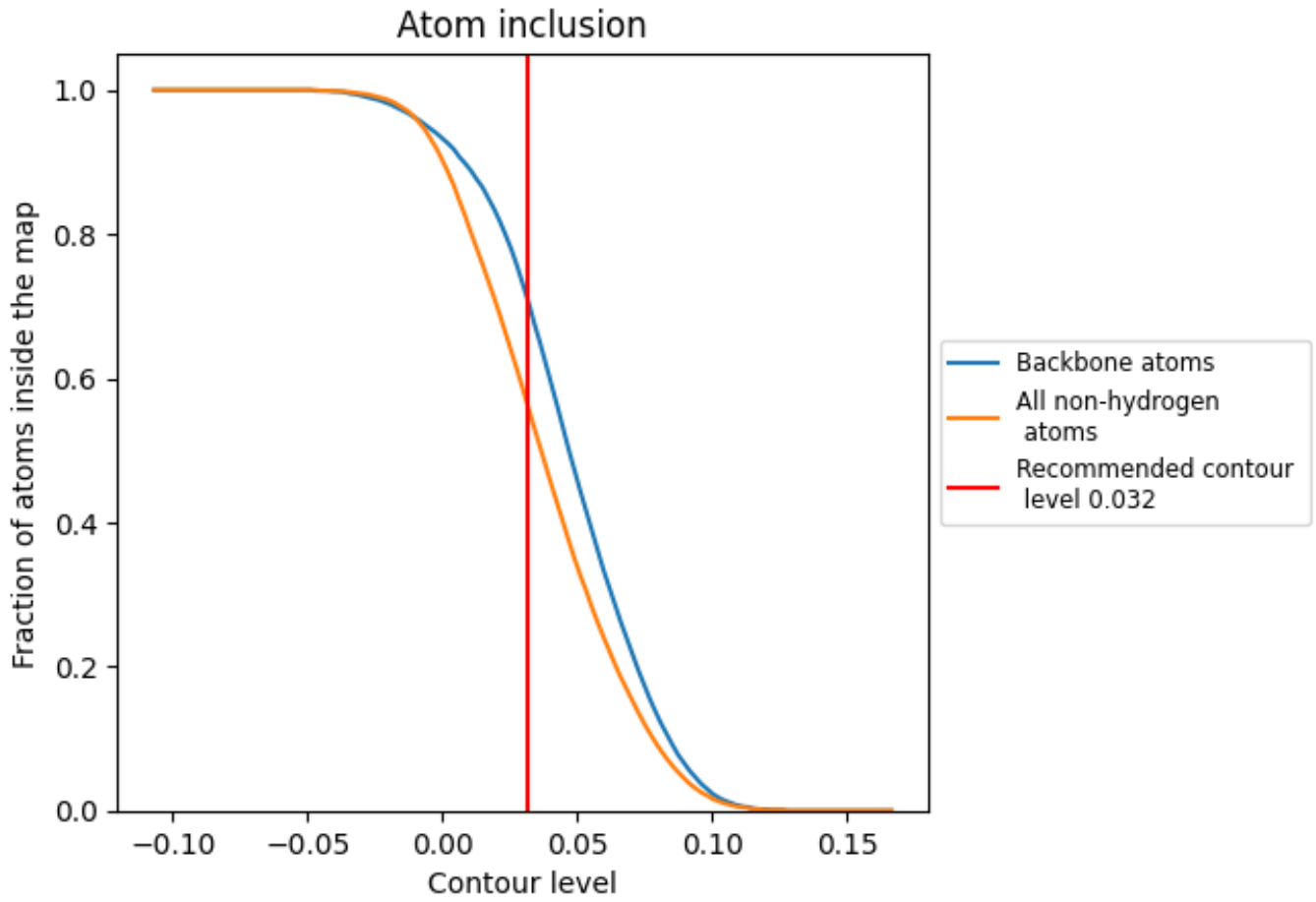
9.3 Atom inclusion mapped to coordinate model



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 (0.032).

9.4 Atom inclusion (i)



At the recommended contour level, 71% of all backbone atoms, 56% 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 (0.032) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5590	0.3330
A	0.5490	0.3280
B	0.5480	0.3290
C	0.5520	0.3290
D	0.5530	0.3240
E	0.5590	0.3390
F	0.5570	0.3350
G	0.5540	0.3320
H	0.5600	0.3360
I	0.5640	0.3340
J	0.5620	0.3350
K	0.5630	0.3420
L	0.5620	0.3360
M	0.5620	0.3370
N	0.5640	0.3330
O	0.5620	0.3280
P	0.5600	0.3350
Q	0.5620	0.3340
R	0.5580	0.3300
S	0.5640	0.3350
T	0.5570	0.3280
U	0.5580	0.3300
W	0.5580	0.3350