Full wwPDB X-ray Structure Validation Report (i)

Nov 7, 2023 – 01:53 PM EST

|		
PDB ID	:	2QUJ
Title	:	Crystal structures of human tryptophanyl-tRNA synthetase in complex with TrpAMP
Authors	:	Shen, N.; Ding, J.P.
Deposited on	:	2007-08-05
Resolution	:	2.42 Å(reported)

1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.42 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.
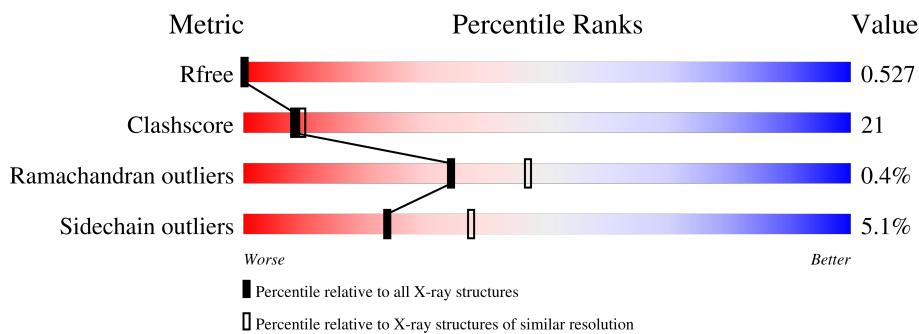
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	4647 (2.44-2.40)
Clashscore	141614	5161 (2.44-2.40)
Ramachandran outliers	138981	5073 (2.44-2.40)
Sidechain outliers	138945	5074 (2.44-2.40)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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%

Mol	Chain	Length	Quality of chain
1	A	477	• 75% • 19%
1	B	477	13% 63% • 21%
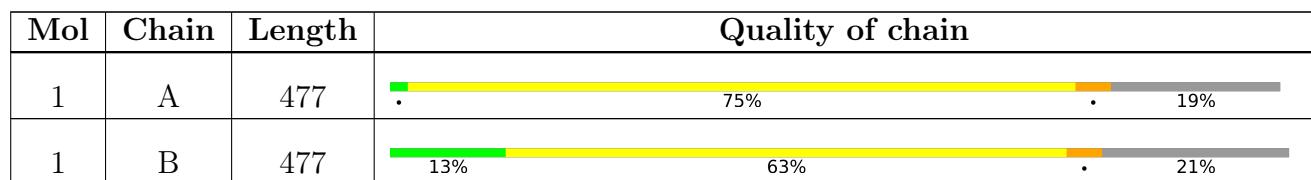
The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	CL	A	802	-	-	X	-
2	CL	A	804	-	-	X	-
2	CL	A	805	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	CL	A	807	-	-	X	-
2	CL	B	808	-	-	X	-
4	GOL	A	813	-	X	X	-
4	GOL	A	814	-	X	X	-
4	GOL	B	812	-	X	X	-
4	GOL	B	815	-	X	X	-
5	TRP	B	817	-	-	X	-

2 Entry composition ⓘ

There are 6 unique types of molecules in this entry. The entry contains 6422 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Tryptophanyl-tRNA synthetase.

| Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	388	Total	C	N	O	S	0	0	0
			3106	1988	533	570	15			
1	B	378	Total	C	N	O	S	0	0	0
			3033	1947	511	560	15			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	472	HIS	-	expression tag	UNP P23381
A	473	HIS	-	expression tag	UNP P23381
A	474	HIS	-	expression tag	UNP P23381
A	475	HIS	-	expression tag	UNP P23381
A	476	HIS	-	expression tag	UNP P23381
A	477	HIS	-	expression tag	UNP P23381
B	472	HIS	-	expression tag	UNP P23381
B	473	HIS	-	expression tag	UNP P23381
B	474	HIS	-	expression tag	UNP P23381
B	475	HIS	-	expression tag	UNP P23381
B	476	HIS	-	expression tag	UNP P23381
B	477	HIS	-	expression tag	UNP P23381

- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	5	Total	Cl	0	0
			5	5		
2	B	4	Total	Cl	0	0
			4	4		

- Molecule 3 is TRYPTOPHANYL-5'AMP (three-letter code: TYM) (formula: $C_{21}H_{24}N_7O_8P$).

TYM
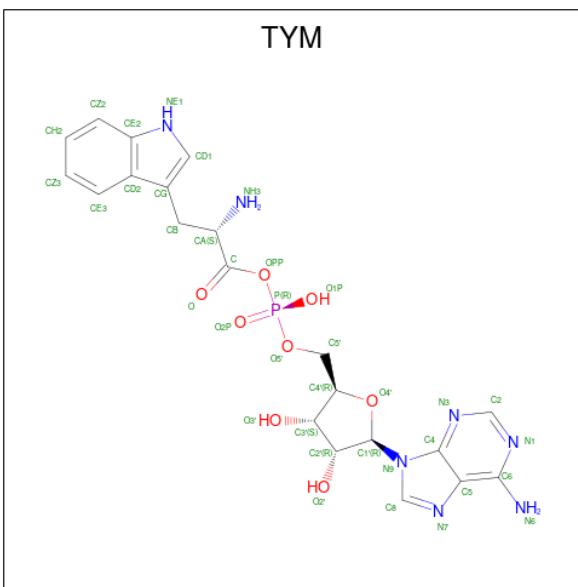
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
3	A	1	37	21	7	8	1	0	0

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).

GOL
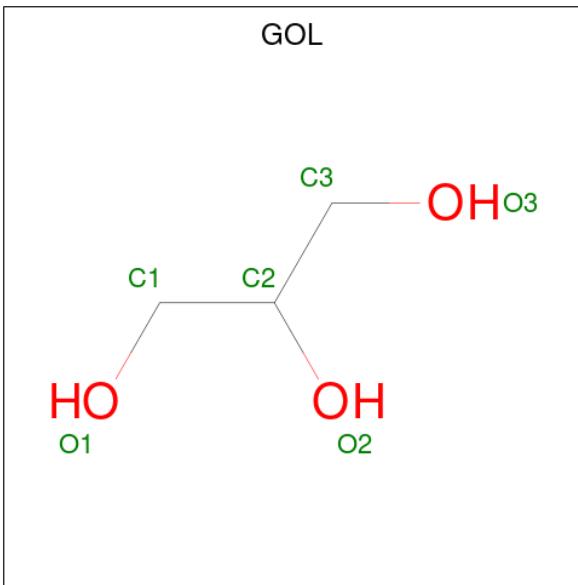
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
4	A	1	6	3	3	0	0
			Total	C	O		
4	A	1	6	3	3	0	0
			Total	C	O		
4	B	1	6	3	3	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	B	1	Total 6	C 3	O 3	0	0

- Molecule 5 is TRYPTOPHAN (three-letter code: TRP) (formula: $C_{11}H_{12}N_2O_2$).
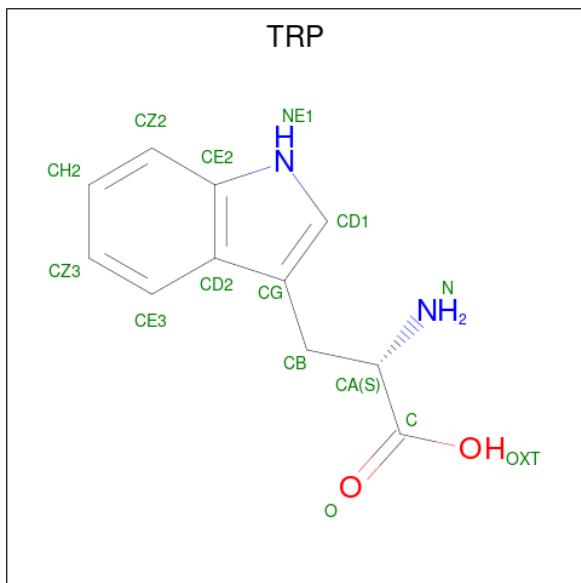
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	B	1	Total 15	C 11	N 2	O 2	0	0

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	98	Total 98	O 98	0	0
6	B	100	Total 100	O 100	0	0

3 Residue-property plots ⓘ

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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. 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: Tryptophanyl-tRNA synthetase

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I193 Q194 M195 T196 D197 D198 E199 K200 Y201 L202 W203 L206 T207 L208 D209 Q210 A211 Y212 S213 Y214 A215 V216 E217 N218 A219 K220 D221 I222 I223 A224 C225 G226 F227 D228 I229 N230 K231 T232 F233 I234 F235 S236 D237 L238 D239 Y240 M241 G242 M243 S244 S245 G246 F247 Y248 K249 N250 V251 V252 K253

I254 Q255 K256 H257 V258 T259 F260 N261 Q262 V263 K264 G265 I266 F267 G268 F269 T270 D271 S272 D273 C274 I275 G276 K277 I278 S279 F280 P281 A282 I283 Q284 P287 S288 F289 S290 N291 S292 F293 P294 Q295 I296 F297 R298 D299 R300 T301 D302 I303 Q304 C305 L306 I307 P308 C309 A310 I311 D312 Q313 D314

P315 Y316 F317 R318 M319 T320 R321 D322 V323 A324 P325 R326 I327 G328 Y329 P332 A333 L334 L335 H336 S337 T338 F339 F340 P341 A342 L343 Q344 G345 A346 Q347 T348 K349 D354 P355 N356 S357 S358 I359 F360 L361 T362 D363 T364 A365 K366 Q367 I368 K369 T370 K371 V372 N373 K374 H375 A376 F377 S378

D382 T383 E386 H387 R388 Q389 F390 N393 V396 D397 V398 S399 F400 M401 Y402 L403 T404 F405 F406 L407 K412 L413 E414 R417 K418 D419 Y420 G423 A424 M425 L426 T427 G428 E429 L430 K431 K432 A433 L434 I435 E436 V437 L438 Q439 P440 L441 I442 A443 E444 H445 Q446 A447 R448

R449 K450 E451 V452 T453 D454 E455 I456 V457 K458 E459 F460 M461 T462 P463 R464 K465 L466 S467 F468 D469 F470 Q471 HIS HIS HIS HIS HIS HIS

4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 4 2 2	Depositor
Cell constants a, b, c, α, β, γ	80.00Å 80.00Å 383.00Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 2.42 49.90 – 2.42	Depositor EDS
% Data completeness (in resolution range)	87.9 (50.00-2.42) 88.1 (49.90-2.42)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	3.70 (at 2.42Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.214 , 0.238 0.515 , 0.527	Depositor DCC
R_{free} test set	2190 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å^2)	41.9	Xtriage
Anisotropy	0.507	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.27 , 42.3	EDS
L-test for twinning[2]	$< |L| > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.52	EDS
Total number of atoms	6422	wwPDB-VP
Average B, all atoms (Å^2)	47.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.03% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: CL, GOL, TYM

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	0.37	0/3184	0.60	0/4296
1	B	0.39	0/3107	0.61	0/4195
All	All	0.38	0/6291	0.61	0/8491

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (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	3106	0	3024	145	5477
1	B	3033	0	2971	120	3728
2	A	5	0	0	0	12
2	B	4	0	0	2	5
3	A	37	0	23	5	7
4	A	12	0	8	2	32
4	B	12	0	8	1	36
5	B	15	0	9	0	25
6	A	98	0	0	1	283
6	B	100	0	0	1	123
All	All	6422	0	6043	258	7242

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 21.

All (258) 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:A:344:GLN:HE22	1:A:357:SER:HA	1.12	1.08
1:B:95:ALA:HA	1:B:347:GLN:HE21	1.19	1.06
1:B:207:THR:HG22	1:B:210:GLN:H	1.18	1.05
1:A:250:ASN:HD21	1:A:291:ASN:ND2	1.57	1.01
1:A:250:ASN:HD21	1:A:291:ASN:HD21	1.18	0.88
1:A:176:PRO:HG3	3:A:810:TYM:H1'C	1.55	0.88
1:A:354:ASP:HB2	1:A:357:SER:HB3	1.57	0.86
1:B:250:ASN:HD21	1:B:291:ASN:ND2	1.76	0.83
1:A:344:GLN:NE2	1:A:357:SER:HA	1.92	0.82
1:B:228:ASP:O	1:B:232:THR:HG23	1.80	0.81
1:A:174:LEU:HD21	1:A:361:LEU:HD11	1.60	0.81
1:B:344:GLN:HE21	1:B:357:SER:HA	1.46	0.80
1:B:160:THR:HG22	1:B:308:PRO:O	1.82	0.80
1:A:372:VAL:HG12	1:A:431:LYS:HG3	1.66	0.78
1:A:261:ASN:ND2	1:B:271:ASP:HB3	2.00	0.77
1:A:234:ILE:O	1:A:461:MET:HA	1.86	0.76
1:B:228:ASP:OD2	1:B:231:LYS:HG3	1.86	0.76
1:B:227:PHE:HB3	1:B:232:THR:HG21	1.68	0.75
1:B:159:TYR:CZ	1:B:287:PRO:HG2	2.21	0.75
1:A:350:MET:HE1	1:A:358:SER:HA	1.66	0.75
1:B:453:THR:O	1:B:457:VAL:HG23	1.88	0.74
1:B:344:GLN:NE2	1:B:357:SER:HA	2.03	0.73
1:B:95:ALA:HA	1:B:347:GLN:NE2	1.99	0.73
1:B:267:PHE:HE1	1:B:319:MET:HE3	1.54	0.73
1:A:354:ASP:HB2	1:A:357:SER:CB	2.17	0.73
1:A:293:PHE:HB3	1:A:296:ILE:HG23	1.70	0.72
1:B:140:HIS:HD2	1:B:143:MET:H	1.38	0.71
1:A:228:ASP:O	1:A:232:THR:HG23	1.91	0.70
1:A:159:TYR:CZ	1:A:287:PRO:HG2	2.26	0.70
1:B:207:THR:HG22	1:B:210:GLN:N	2.02	0.69
1:A:294:PRO:HD2	1:A:295:GLN:NE2	2.07	0.69
1:A:420:TYR:OH	1:A:427:THR:HG22	1.91	0.69
1:B:103:LEU:HD21	1:B:311:ILE:HG21	1.75	0.69
1:B:139:SER:HB3	1:B:336:HIS:HB2	1.75	0.69
1:A:448:ARG:HD2	6:A:877:HOH:O	1.94	0.67
1:A:455:GLU:H	1:A:455:GLU:CD	1.97	0.66
1:B:414:GLU:OE2	1:B:418:LYS:HE3	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:350:MET:CG	1:A:358:SER:HB3	2.26	0.65
1:A:260:PHE:HE1	1:A:278:ILE:HD12	1.61	0.65
1:A:324:ALA:HB3	1:A:325:PRO:HD3	1.79	0.65
1:A:261:ASN:HD21	1:B:271:ASP:HB3	1.61	0.65
1:A:137:PHE:CZ	1:A:337:SER:HB3	2.31	0.65
1:A:140:HIS:HD2	1:A:143:MET:H	1.43	0.65
1:B:160:THR:CG2	1:B:308:PRO:O	2.44	0.65
1:A:354:ASP:CB	1:A:357:SER:HB3	2.25	0.64
1:A:350:MET:CE	1:A:358:SER:HA	2.27	0.64
1:B:137:PHE:CZ	1:B:337:SER:HB3	2.33	0.64
1:A:296:ILE:HD13	1:A:466:LEU:HD12	1.80	0.63
1:B:457:VAL:HG12	1:B:461:MET:HE3	1.79	0.63
1:B:441:LEU:HD23	1:B:442:ILE:HG13	1.78	0.63
1:A:442:ILE:O	1:A:446:GLN:HG3	1.98	0.63
1:A:250:ASN:ND2	1:A:291:ASN:HD21	1.94	0.62
1:B:342:ALA:HB1	1:B:357:SER:HB2	1.80	0.62
1:A:169:MET:CE	1:A:218:ASN:HA	2.29	0.62
1:B:326:ARG:HD3	6:B:886:HOH:O	1.98	0.62
1:A:140:HIS:CD2	1:A:143:MET:H	2.18	0.61
1:A:139:SER:HB3	1:A:336:HIS:HB2	1.82	0.61
1:A:295:GLN:NE2	1:A:295:GLN:H	1.98	0.61
1:B:457:VAL:HG12	1:B:461:MET:CE	2.31	0.61
1:A:333:ALA:C	1:A:334:LEU:HD12	2.22	0.60
1:A:453:THR:OG1	1:A:456:ILE:HG13	2.01	0.60
1:B:216:VAL:HG22	1:B:461:MET:HE1	1.84	0.59
1:A:253:LYS:O	1:A:257:HIS:HD2	1.85	0.59
1:B:372:VAL:HG12	1:B:431:LYS:HG3	1.82	0.59
1:B:147:LEU:O	1:B:151:GLU:HB2	2.03	0.59
1:B:250:ASN:HD21	1:B:291:ASN:HD21	1.48	0.58
1:A:250:ASN:ND2	1:A:291:ASN:ND2	2.41	0.58
1:A:260:PHE:CE1	1:A:278:ILE:HD12	2.37	0.58
1:A:448:ARG:HG2	1:A:448:ARG:HH11	1.69	0.58
1:B:370:THR:HG23	1:B:374:LYS:HD3	1.85	0.58
1:B:253:LYS:O	1:B:257:HIS:HD2	1.86	0.58
1:B:267:PHE:CE1	1:B:319:MET:HE3	2.36	0.58
1:A:126:GLN:HG3	1:A:186:VAL:HG22	1.85	0.57
1:A:176:PRO:HG3	3:A:810:TYM:C1'	2.30	0.57
1:A:294:PRO:HD2	1:A:295:GLN:HE21	1.67	0.57
1:B:160:THR:HG23	1:B:308:PRO:HG2	1.85	0.57
1:B:442:ILE:O	1:B:446:GLN:HG3	2.04	0.57
1:A:293:PHE:HA	1:A:295:GLN:HE22	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:376:ALA:HB3	1:B:431:LYS:HE2	1.85	0.56
1:B:449:ARG:O	1:B:452:VAL:HG12	2.06	0.56
1:A:255:GLN:HE21	1:A:279:SER:HB2	1.70	0.56
1:B:114:LYS:HG3	2:B:808:CL:CL	2.42	0.56
1:A:124:THR:HB	1:A:186:VAL:HG13	1.87	0.55
1:A:169:MET:CE	1:A:221:ASP:HB2	2.35	0.55
1:A:259:THR:OG1	1:A:262:GLN:HG3	2.06	0.55
1:A:348:THR:HG22	1:A:349:LYS:H	1.72	0.55
1:B:207:THR:HG23	1:B:209:ASP:H	1.72	0.55
1:B:259:THR:HG23	1:B:262:GLN:HE21	1.71	0.54
1:A:227:PHE:HB3	1:A:232:THR:HG21	1.90	0.54
1:A:264:LYS:HZ2	1:A:270:THR:HA	1.72	0.54
1:B:207:THR:CG2	1:B:210:GLN:HG3	2.37	0.54
1:B:367:GLN:O	1:B:371:LYS:HG3	2.07	0.54
1:A:162:ARG:HA	3:A:810:TYM:H5'2	1.89	0.54
1:B:182:TRP:CZ2	1:B:186:VAL:HG21	2.42	0.54
1:A:159:TYR:O	1:A:307:ILE:HG23	2.07	0.54
1:A:350:MET:HG3	1:A:358:SER:HB3	1.88	0.54
1:B:326:ARG:HG2	1:B:326:ARG:HH11	1.73	0.54
1:A:267:PHE:HE1	1:A:319:MET:HE3	1.72	0.54
1:A:199:GLU:HB2	1:A:280:PHE:CZ	2.43	0.54
1:A:348:THR:HG22	1:A:349:LYS:N	2.23	0.54
1:A:169:MET:HE1	1:A:218:ASN:HA	1.90	0.53
1:B:182:TRP:CE2	1:B:186:VAL:HG21	2.43	0.53
1:B:170:HIS:HD2	1:B:172:GLY:N	2.06	0.53
1:A:344:GLN:H	1:A:344:GLN:CD	2.11	0.53
1:A:98:ILE:HD12	1:A:339:PHE:CE2	2.43	0.53
1:A:448:ARG:HG2	1:A:448:ARG:NH1	2.24	0.53
1:B:234:ILE:O	1:B:461:MET:HA	2.08	0.52
1:B:259:THR:H	1:B:262:GLN:NE2	2.07	0.52
1:A:169:MET:HE2	1:A:218:ASN:HA	1.91	0.52
1:B:317:PHE:HB2	1:B:334:LEU:HD21	1.92	0.52
1:B:140:HIS:CD2	1:B:143:MET:H	2.23	0.52
1:A:267:PHE:CE1	1:A:319:MET:HE3	2.45	0.52
1:B:160:THR:CG2	1:B:308:PRO:HG2	2.39	0.52
1:B:221:ASP:OD1	1:B:445:HIS:HE1	1.93	0.52
1:A:295:GLN:H	1:A:295:GLN:CD	2.14	0.52
1:B:291:ASN:HB3	1:B:301:THR:HG22	1.90	0.52
1:B:387:HIS:HD2	1:B:426:LEU:HD23	1.73	0.52
1:A:344:GLN:HE22	1:A:357:SER:CA	2.03	0.52
1:A:188:ASN:ND2	1:A:231:LYS:NZ	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:393:ASN:C	1:A:393:ASN:HD22	2.12	0.51
1:B:364:THR:O	1:B:368:ILE:HG13	2.10	0.51
1:A:264:LYS:NZ	1:A:270:THR:HA	2.26	0.51
1:B:427:THR:HG23	4:B:815:GOL:C3	2.41	0.51
3:A:810:TYM:HE3C	3:A:810:TYM:H3'C	1.93	0.51
1:A:170:HIS:HD2	1:A:172:GLY:N	2.08	0.51
1:B:296:ILE:CG2	1:B:466:LEU:HG	2.41	0.50
1:A:349:LYS:HE3	3:A:810:TYM:N7	2.25	0.50
1:B:296:ILE:HG22	1:B:466:LEU:HG	1.94	0.50
1:B:348:THR:HG22	1:B:349:LYS:N	2.25	0.50
1:A:259:THR:H	1:A:262:GLN:NE2	2.09	0.50
1:A:129:HIS:HB2	1:A:182:TRP:CD2	2.46	0.50
1:A:102:LYS:O	1:A:105:VAL:HG12	2.11	0.49
1:A:426:LEU:HB3	4:A:814:GOL:O3	2.12	0.49
1:A:314:ASP:N	1:A:315:PRO:HD2	2.26	0.49
1:A:317:PHE:HB2	1:A:334:LEU:HD21	1.94	0.49
1:B:233:PHE:CZ	1:B:235:PHE:HB3	2.47	0.49
1:A:170:HIS:HD2	1:A:172:GLY:H	1.58	0.49
1:A:292:SER:C	1:A:294:PRO:HD3	2.33	0.49
1:B:468:PHE:HB3	1:B:470:PHE:CE1	2.47	0.49
1:A:137:PHE:CE2	1:A:337:SER:HB3	2.48	0.49
1:A:393:ASN:ND2	1:A:395:ASP:H	2.10	0.48
1:B:113:ASP:OD1	1:B:115:GLU:HB3	2.13	0.48
1:B:159:TYR:OH	1:B:287:PRO:HG2	2.13	0.48
1:A:171:VAL:HG13	1:A:406:PHE:CZ	2.48	0.48
1:A:130:HIS:HB3	1:A:133:ARG:NH2	2.28	0.48
1:A:296:ILE:HG13	1:A:297:PHE:CD1	2.48	0.48
1:B:295:GLN:H	1:B:295:GLN:NE2	2.12	0.48
1:B:393:ASN:HD22	1:B:393:ASN:C	2.15	0.48
1:A:124:THR:HG21	1:A:186:VAL:CG1	2.43	0.48
1:A:322:ASP:O	1:A:325:PRO:HD2	2.13	0.48
1:A:354:ASP:HB2	1:A:357:SER:OG	2.13	0.48
1:B:98:ILE:HD11	1:B:103:LEU:HD22	1.94	0.48
1:B:156:PHE:HB2	1:B:304:GLN:HB3	1.96	0.48
1:A:260:PHE:CE2	1:A:264:LYS:HD2	2.49	0.48
1:B:251:VAL:O	1:B:255:GLN:HG3	2.14	0.47
1:B:333:ALA:C	1:B:334:LEU:HD12	2.34	0.47
1:B:311:ILE:HG12	1:B:336:HIS:HB3	1.96	0.47
1:A:263:VAL:HG12	1:A:319:MET:CE	2.45	0.47
1:A:361:LEU:HD13	1:A:445:HIS:CE1	2.49	0.47
1:A:121:GLU:HB2	1:A:128:PRO:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:169:MET:HE3	1:A:221:ASP:HB2	1.96	0.47
1:A:294:PRO:CD	1:A:295:GLN:NE2	2.77	0.47
1:A:298:ARG:HD2	1:A:470:PHE:O	2.15	0.47
1:A:389:GLN:HG2	1:A:390:PHE:CE1	2.50	0.47
1:A:427:THR:HG23	4:A:814:GOL:C3	2.45	0.47
1:B:401:MET:O	1:B:404:THR:HB	2.14	0.47
1:A:345:GLY:HA3	1:A:347:GLN:NE2	2.29	0.47
1:B:207:THR:HG22	1:B:210:GLN:HG3	1.96	0.47
1:B:136:ILE:HD11	1:B:404:THR:HG22	1.97	0.46
1:B:420:TYR:OH	1:B:427:THR:HG22	2.15	0.46
1:B:298:ARG:C	1:B:300:ARG:H	2.19	0.46
1:A:169:MET:HE1	1:A:221:ASP:HB2	1.97	0.46
1:A:248:TYR:O	1:A:252:VAL:HG23	2.15	0.46
1:B:324:ALA:N	1:B:325:PRO:HD2	2.31	0.46
1:A:170:HIS:CD2	1:A:172:GLY:H	2.34	0.46
1:A:184:GLN:OE1	1:A:232:THR:HG22	2.15	0.45
1:A:259:THR:HA	1:B:274:CYS:HA	1.97	0.45
1:A:278:ILE:HG22	1:B:275:ILE:HG22	1.99	0.45
1:A:321:ARG:O	1:A:331:LYS:HE2	2.16	0.45
1:B:114:LYS:HE3	2:B:808:CL:CL	2.53	0.45
1:B:314:ASP:OD2	1:B:336:HIS:CE1	2.69	0.45
1:A:98:ILE:HD12	1:A:339:PHE:HE2	1.80	0.45
1:A:263:VAL:HG12	1:A:319:MET:HE1	1.99	0.45
1:B:100:TYR:HB3	1:B:138:PHE:CE2	2.51	0.45
1:B:407:LEU:HD11	1:B:412:LYS:HD3	1.98	0.45
1:B:103:LEU:O	1:B:107:PHE:HB2	2.17	0.45
1:A:251:VAL:O	1:A:255:GLN:HG3	2.16	0.45
1:A:100:TYR:HB3	1:A:138:PHE:CE2	2.51	0.45
1:A:368:ILE:O	1:A:372:VAL:HG23	2.17	0.44
1:A:192:VAL:HG13	1:A:235:PHE:HE1	1.82	0.44
1:A:169:MET:HE3	1:A:221:ASP:CB	2.48	0.44
1:B:344:GLN:HE21	1:B:357:SER:CA	2.23	0.44
1:A:311:ILE:HG23	1:A:336:HIS:HB3	1.99	0.44
1:B:170:HIS:HD2	1:B:172:GLY:H	1.65	0.44
1:A:174:LEU:HD21	1:A:361:LEU:CD1	2.39	0.44
1:A:242:GLY:HA2	1:B:241:MET:O	2.18	0.44
1:A:298:ARG:O	1:A:298:ARG:HG2	2.18	0.44
1:B:314:ASP:N	1:B:315:PRO:HD2	2.32	0.44
1:B:371:LYS:O	1:B:375:HIS:HB2	2.17	0.44
1:A:323:VAL:HG12	1:A:326:ARG:NH2	2.32	0.44
1:A:393:ASN:C	1:A:393:ASN:ND2	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:142:ASP:HB3	1:B:145:GLN:CG	2.48	0.44
1:A:113:ASP:O	1:A:117:ILE:HG13	2.18	0.43
1:A:160:THR:O	1:A:193:ILE:HA	2.18	0.43
1:A:156:PHE:HA	1:A:304:GLN:O	2.19	0.43
1:B:362:THR:HA	1:B:446:GLN:HE21	1.82	0.43
1:A:200:LYS:HA	1:A:200:LYS:HD3	1.83	0.43
1:A:165:SER:HB3	1:A:204:LYS:HE3	2.00	0.43
1:A:221:ASP:OD2	1:A:445:HIS:HE1	2.00	0.43
1:B:431:LYS:O	1:B:435:ILE:HG13	2.18	0.43
1:A:359:ILE:HD13	1:A:438:LEU:HD13	1.99	0.43
1:A:355:PRO:HA	1:A:360:PHE:HE2	1.82	0.43
1:A:100:TYR:O	1:A:104:ILE:HG13	2.19	0.43
1:A:230:ASN:HB3	1:A:467:SER:OG	2.19	0.43
1:B:191:LEU:HD21	1:B:193:ILE:HD11	2.01	0.43
1:B:255:GLN:HE21	1:B:279:SER:HB2	1.83	0.43
1:B:137:PHE:CE2	1:B:337:SER:HB3	2.53	0.43
1:B:262:GLN:O	1:B:266:ILE:HG13	2.19	0.43
1:B:387:HIS:CD2	1:B:426:LEU:HD23	2.52	0.42
1:B:389:GLN:NE2	1:B:390:PHE:CZ	2.87	0.42
1:A:256:LYS:HD3	1:B:202:LEU:HA	2.00	0.42
1:A:391:GLY:HA3	1:A:421:THR:O	2.19	0.42
1:B:138:PHE:H	1:B:138:PHE:HD1	1.68	0.42
1:A:274:CYS:HA	1:B:259:THR:HA	2.01	0.42
1:B:121:GLU:HB2	1:B:128:PRO:HD3	2.01	0.42
1:B:184:GLN:O	1:B:188:ASN:HA	2.20	0.42
1:B:348:THR:HG22	1:B:349:LYS:O	2.20	0.42
1:A:139:SER:OG	1:A:336:HIS:HD2	2.02	0.42
1:A:192:VAL:HG11	1:A:293:PHE:CZ	2.55	0.42
1:A:401:MET:O	1:A:405:PHE:HD1	2.02	0.42
1:B:196:THR:HB	1:B:199:GLU:HB2	2.01	0.41
1:B:393:ASN:C	1:B:393:ASN:ND2	2.73	0.41
1:A:124:THR:CG2	1:A:186:VAL:HG13	2.50	0.41
1:A:260:PHE:HE1	1:A:278:ILE:CD1	2.30	0.41
1:A:369:LYS:HA	1:A:435:ILE:HD13	2.02	0.41
1:A:393:ASN:HD22	1:A:394:CYS:N	2.18	0.41
1:B:139:SER:OG	1:B:336:HIS:HD2	2.02	0.41
1:B:298:ARG:C	1:B:300:ARG:N	2.74	0.41
1:B:298:ARG:O	1:B:300:ARG:N	2.54	0.41
1:B:198:ASP:OD1	1:B:198:ASP:N	2.53	0.41
1:B:347:GLN:CD	1:B:347:GLN:H	2.24	0.41
1:A:311:ILE:HG13	1:A:337:SER:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:376:ALA:HB3	1:A:431:LYS:HE2	2.03	0.41
1:B:136:ILE:HD13	1:B:405:PHE:CD2	2.56	0.41
1:B:166:SER:HA	1:B:214:TYR:CD2	2.54	0.41
1:B:241:MET:CE	1:B:283:ILE:HD12	2.51	0.41
1:A:105:VAL:HG13	1:A:106:ARG:N	2.36	0.41
1:A:280:PHE:N	1:A:281:PRO:CD	2.84	0.41
1:A:356:ASN:HD22	1:A:375:HIS:CD2	2.38	0.41
1:B:162:ARG:O	1:B:164:PRO:HD3	2.20	0.41
1:B:466:LEU:O	1:B:468:PHE:N	2.50	0.41
1:B:234:ILE:O	1:B:461:MET:HG2	2.22	0.40
1:A:276:GLY:CA	1:B:255:GLN:HB3	2.51	0.40
1:B:293:PHE:HB3	1:B:296:ILE:HG12	2.03	0.40
1:A:196:THR:HB	1:A:199:GLU:HB3	2.04	0.40
1:A:175:ILE:HD12	1:A:405:PHE:HD2	1.86	0.40
1:A:354:ASP:HA	1:A:355:PRO:HD2	1.96	0.40
1:B:142:ASP:HB3	1:B:145:GLN:HG3	2.03	0.40

All (7242) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:102:LYS:C	1:B:401:MET:C[3_675]	0.07	2.13
1:A:112:ILE:CG1	1:A:275:ILE:N[8_664]	0.10	2.10
1:A:117:ILE:C	1:B:262:GLN:CA[8_664]	0.13	2.07
1:A:157:TYR:C	1:B:239:ASP:N[5_454]	0.14	2.06
1:A:123:ALA:N	1:B:177:PHE:CZ[5_454]	0.19	2.01
1:A:252:VAL:CG2	1:A:303:ILE:CG1[5_454]	0.20	2.00
1:A:105:VAL:CG1	1:A:465:LYS:CG[3_675]	0.21	1.99
1:B:141:ARG:NE	1:B:438:LEU:C[3_675]	0.22	1.98
1:A:141:ARG:C	1:B:213:SER:OG[5_454]	0.23	1.97
1:A:142:ASP:CB	1:B:275:ILE:N[8_664]	0.24	1.96
1:A:205:ASP:CB	1:A:443:ALA:CA[6_574]	0.24	1.96
1:A:106:ARG:CB	1:A:237:ASP:CB[8_664]	0.25	1.95
1:A:291:ASN:O	1:A:292:SER:OG[5_454]	0.25	1.95
1:B:164:PRO:O	1:B:273:ASP:CG[4_365]	0.25	1.95
1:B:309:CYS:O	1:B:371:LYS:CA[3_675]	0.25	1.95
1:A:148:ASP:OD2	1:B:165:SER:CB[5_454]	0.26	1.94
1:A:191:LEU:CB	1:B:243:MET:CG[5_454]	0.26	1.94
1:A:253:LYS:N	1:A:302:ASP:N[5_454]	0.26	1.94
1:A:211:ALA:CB	1:A:449:ARG:C[6_574]	0.28	1.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:401:MET:N	1:A:439:GLN:CB[4_465]	0.28	1.92
1:B:312:ASP:C	1:B:358:SER:C[3_675]	0.28	1.92
1:B:214:TYR:CA	1:B:278:ILE:CD1[4_365]	0.29	1.91
1:A:184:GLN:C	1:B:233:PHE:CE2[5_454]	0.30	1.90
1:A:238:LEU:CA	1:A:453:THR:CG2[6_574]	0.30	1.90
1:A:316:TYR:N	1:A:316:TYR:CB[8_664]	0.30	1.90
1:A:331:LYS:O	1:B:209:ASP:N[5_454]	0.30	1.90
1:B:336:HIS:O	1:B:372:VAL:C[3_675]	0.30	1.90
1:A:117:ILE:C	1:B:221:ASP:C[5_454]	0.31	1.89
1:B:201:TYR:CG	6:A:853:HOH:O[5_454]	0.31	1.89
1:B:101:ASP:C	1:B:400:PHE:C[3_675]	0.32	1.88
1:B:327:ILE:C	1:B:469:ASP:OD2[2_475]	0.33	1.87
1:A:228:ASP:OD1	1:B:294:PRO:CG[5_454]	0.34	1.86
1:A:231:LYS:CE	1:B:292:SER:O[5_454]	0.34	1.86
1:A:400:PHE:C	4:A:814:GOL:C1[3_665]	0.34	1.86
1:A:102:LYS:CD	1:A:452:VAL:CA[4_465]	0.35	1.85
1:A:380:GLY:C	1:A:402:TYR:O[4_465]	0.35	1.85
1:B:313:GLN:CG	1:B:371:LYS:NZ[3_675]	0.35	1.85
1:A:118:ASN:ND2	1:B:445:HIS:CD2[5_454]	0.36	1.84
1:A:319:MET:C	1:A:320:THR:CA[8_664]	0.37	1.83
1:B:328:GLY:O	1:B:469:ASP:C[2_475]	0.37	1.83
1:B:221:ASP:C	1:B:262:GLN:CA[4_365]	0.38	1.82
1:A:154:LYS:CB	1:B:199:GLU:CA[5_454]	0.39	1.81
1:A:353:SER:N	6:A:899:HOH:O[8_664]	0.39	1.81
1:A:147:LEU:CA	1:B:270:THR:N[8_664]	0.40	1.80
1:A:216:VAL:C	1:A:216:VAL:C[6_574]	0.40	1.80
1:A:351:SER:CB	1:A:351:SER:CB[8_664]	0.40	1.80
1:A:247:PHE:CG	1:A:293:PHE:C[5_454]	0.41	1.79
1:A:347:GLN:O	1:A:362:THR:CG2[4_465]	0.41	1.79
1:A:143:MET:SD	1:B:216:VAL:N[5_454]	0.42	1.78
1:A:258:VAL:C	1:B:209:ASP:C[3_675]	0.42	1.78
1:A:121:GLU:OE1	1:B:225:CYS:CB[5_454]	0.43	1.77
1:A:147:LEU:C	1:B:164:PRO:N[5_454]	0.43	1.77
1:B:323:VAL:CG1	1:B:446:GLN:O[3_675]	0.43	1.77
1:B:94:SER:C	1:B:94:SER:C[3_675]	0.44	1.76
1:A:320:THR:N	1:A:320:THR:N[8_664]	0.45	1.75
1:A:392:GLY:N	1:A:407:LEU:CA[4_465]	0.45	1.75
1:B:316:TYR:N	1:B:360:PHE:C[3_675]	0.45	1.75
1:A:153:LYS:CE	1:B:284:GLN:CD[5_454]	0.46	1.74
1:A:251:VAL:N	1:A:300:ARG:O[5_454]	0.46	1.74
1:A:381:ARG:CG	1:A:404:THR:C[4_465]	0.46	1.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:106:ARG:CB	1:B:405:PHE:CB[3_675]	0.46	1.74
1:B:164:PRO:C	1:B:273:ASP:OD2[4_365]	0.46	1.74
1:A:116:LEU:CA	1:B:221:ASP:OD2[5_454]	0.47	1.73
1:A:119:ARG:CZ	1:B:162:ARG:NH2[5_454]	0.47	1.73
1:A:233:PHE:CB	1:A:243:MET:CA[5_454]	0.47	1.73
1:A:273:ASP:C	1:B:457:VAL:CG2[3_675]	0.47	1.73
1:A:370:THR:O	1:A:371:LYS:O[3_665]	0.47	1.73
1:A:381:ARG:O	1:A:401:MET:O[4_465]	0.47	1.73
1:B:207:THR:CA	6:A:835:HOH:O[5_454]	0.47	1.73
1:A:158:LEU:N	1:B:239:ASP:CA[5_454]	0.48	1.72
1:A:231:LYS:C	1:B:244:SER:CA[5_454]	0.48	1.72
1:A:247:PHE:CD1	1:A:294:PRO:N[5_454]	0.48	1.72
1:B:105:VAL:CB	1:B:403:LEU:C[3_675]	0.48	1.72
1:A:373:ASN:N	1:A:373:ASN:CA[4_465]	0.49	1.71
1:B:138:PHE:CD2	1:B:399:SER:OG[3_675]	0.49	1.71
1:B:302:ASP:CG	1:B:303:ILE:CG1[2_475]	0.49	1.71
1:B:315:PRO:CD	1:B:359:ILE:O[3_675]	0.49	1.71
1:B:322:ASP:CG	1:B:445:HIS:N[3_675]	0.49	1.71
1:A:138:PHE:CA	1:A:274:CYS:SG[8_664]	0.50	1.70
1:A:139:SER:OG	1:A:276:GLY:O[8_664]	0.50	1.70
1:A:283:ILE:CD1	1:A:298:ARG:CB[5_454]	0.50	1.70
1:B:101:ASP:CB	1:B:400:PHE:CB[3_675]	0.50	1.70
1:B:110:SER:C	1:B:434:LEU:N[3_675]	0.50	1.70
1:A:136:ILE:CA	1:B:453:THR:OG1[5_454]	0.51	1.69
1:A:144:ASN:OD1	1:B:269:PHE:CE2[8_664]	0.51	1.69
1:A:260:PHE:CE2	1:A:306:LEU:CD2[8_664]	0.51	1.69
1:A:292:SER:O	1:A:292:SER:O[5_454]	0.51	1.69
1:A:341:PRO:C	1:A:364:THR:N[4_465]	0.51	1.69
1:A:371:LYS:O	1:A:374:LYS:CA[2_575]	0.51	1.69
1:A:409:ASP:O	1:A:422:SER:O[3_665]	0.51	1.69
1:B:338:THR:CG2	1:B:376:ALA:C[3_675]	0.51	1.69
1:A:113:ASP:O	1:B:258:VAL:CG1[8_664]	0.52	1.68
1:A:228:ASP:OD2	1:B:294:PRO:CD[5_454]	0.52	1.68
1:A:235:PHE:CE1	6:A:834:HOH:O[5_454]	0.52	1.68
1:A:304:GLN:O	1:B:238:LEU:CG[5_454]	0.52	1.68
1:A:370:THR:O	1:A:374:LYS:CA[4_465]	0.52	1.68
1:A:440:PRO:C	6:A:865:HOH:O[2_575]	0.52	1.68
1:A:468:PHE:CE1	1:B:247:PHE:CB[5_454]	0.52	1.68
1:B:102:LYS:N	1:B:401:MET:N[3_675]	0.52	1.68
1:A:94:SER:OG	1:A:445:HIS:NE2[4_465]	0.53	1.67
1:A:167:GLU:C	1:A:167:GLU:C[6_574]	0.53	1.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:239:ASP:CB	1:A:464:ARG:CB[5_454]	0.53	1.67
1:A:329:TYR:CZ	1:A:329:TYR:CZ[5_454]	0.53	1.67
1:A:448:ARG:NH1	4:A:813:GOL:O3[6_574]	0.53	1.67
1:B:256:LYS:CD	2:A:804:CL:CL[8_664]	0.53	1.67
1:B:141:ARG:C	1:B:439:GLN:OE1[3_675]	0.53	1.67
1:B:257:HIS:O	1:B:449:ARG:C[3_675]	0.53	1.67
1:A:244:SER:OG	1:A:293:PHE:CD1[5_454]	0.54	1.66
1:B:169:MET:SD	1:B:263:VAL:O[4_365]	0.54	1.66
1:B:206:LEU:CD2	6:B:883:HOH:O[4_365]	0.54	1.66
1:B:335:LEU:N	1:B:369:LYS:CA[3_675]	0.54	1.66
1:A:156:PHE:O	1:B:237:ASP:C[5_454]	0.55	1.65
1:A:192:VAL:CA	6:B:858:HOH:O[5_454]	0.55	1.65
1:A:284:GLN:CA	1:A:318:ARG:CZ[8_664]	0.55	1.65
1:A:322:ASP:N	1:A:323:VAL:CG2[8_664]	0.55	1.65
1:B:312:ASP:CB	1:B:358:SER:N[3_675]	0.55	1.65
1:B:334:LEU:CD2	1:B:368:ILE:CG1[3_675]	0.55	1.65
1:B:349:LYS:CE	1:B:354:ASP:OD2[3_675]	0.55	1.65
1:A:115:GLU:C	1:B:221:ASP:OD1[5_454]	0.56	1.64
1:A:140:HIS:ND1	1:B:217:GLU:CD[5_454]	0.56	1.64
1:A:212:TYR:OH	1:A:457:VAL:CA[6_574]	0.56	1.64
1:A:236:SER:N	1:A:454:ASP:CG[6_574]	0.56	1.64
1:A:240:TYR:N	1:A:455:GLU:CD[6_574]	0.56	1.64
1:A:282:ALA:CA	1:A:472:HIS:CD2[5_454]	0.56	1.64
1:A:372:VAL:C	1:A:373:ASN:CA[2_575]	0.56	1.64
1:A:468:PHE:CZ	1:B:247:PHE:CG[5_454]	0.56	1.64
1:B:219:ALA:C	1:B:261:ASN:N[4_365]	0.56	1.64
1:A:215:ALA:CB	1:A:220:LYS:CE[6_574]	0.57	1.63
1:A:253:LYS:NZ	1:A:329:TYR:CB[5_454]	0.57	1.63
1:A:260:PHE:N	1:B:212:TYR:CA[3_675]	0.57	1.63
1:A:277:LYS:CD	1:B:454:ASP:CB[3_675]	0.57	1.63
1:A:336:HIS:O	1:B:454:ASP:CB[5_454]	0.57	1.63
1:A:428:GLY:O	1:A:432:LYS:N[2_575]	0.57	1.63
1:A:431:LYS:CA	6:A:844:HOH:O[2_575]	0.57	1.63
1:B:299:ASP:OD1	1:B:299:ASP:OD1[2_475]	0.57	1.63
1:B:307:ILE:N	1:B:366:LYS:CA[3_675]	0.57	1.63
1:A:98:ILE:N	1:A:206:LEU:CD1[8_664]	0.58	1.62
1:A:116:LEU:CG	1:B:217:GLU:O[5_454]	0.58	1.62
1:A:187:PHE:CE1	1:A:271:ASP:OD2[8_664]	0.58	1.62
1:A:420:TYR:CD2	1:A:437:VAL:CG2[4_465]	0.58	1.62
1:B:320:THR:CA	1:B:446:GLN:CD[3_675]	0.58	1.62
1:A:102:LYS:CB	1:A:238:LEU:CD1[8_664]	0.59	1.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:107:PHE:CA	1:A:283:ILE:CG2[8_664]	0.59	1.61
1:A:147:LEU:CD1	1:B:218:ASN:CB[5_454]	0.59	1.61
1:A:158:LEU:CA	1:B:239:ASP:CB[5_454]	0.59	1.61
1:A:283:ILE:CG1	1:A:298:ARG:CG[5_454]	0.59	1.61
1:B:103:LEU:CG	1:B:402:TYR:CE1[3_675]	0.59	1.61
1:B:162:ARG:NE	1:B:269:PHE:N[4_365]	0.59	1.61
1:B:346:ALA:O	1:B:347:GLN:OE1[3_675]	0.59	1.61
1:A:259:THR:CB	1:A:304:GLN:NE2[8_664]	0.60	1.60
1:B:105:VAL:N	1:B:403:LEU:N[3_675]	0.60	1.60
1:B:171:VAL:CG1	1:B:318:ARG:NH2[4_365]	0.60	1.60
1:B:220:LYS:CA	1:B:259:THR:C[4_365]	0.60	1.60
1:B:308:PRO:CB	1:B:370:THR:OG1[3_675]	0.60	1.60
1:A:183:LEU:CG	1:B:461:MET:CB[5_454]	0.61	1.59
1:A:241:MET:SD	1:A:297:PHE:N[5_454]	0.61	1.59
1:A:319:MET:CA	1:A:320:THR:CB[8_664]	0.61	1.59
1:A:347:GLN:N	1:A:362:THR:N[4_465]	0.61	1.59
1:A:391:GLY:CA	1:A:407:LEU:O[4_465]	0.61	1.59
1:B:160:THR:CA	6:A:822:HOH:O[5_454]	0.61	1.59
1:B:98:ILE:CG2	1:B:345:GLY:C[3_675]	0.61	1.59
1:B:328:GLY:CA	1:B:469:ASP:CB[2_475]	0.61	1.59
1:A:141:ARG:CG	1:A:472:HIS:C[3_675]	0.63	1.57
1:A:184:GLN:CA	1:B:233:PHE:CZ[5_454]	0.63	1.57
1:A:274:CYS:C	1:B:220:LYS:CE[3_675]	0.63	1.57
1:A:312:ASP:CA	6:A:889:HOH:O[8_664]	0.63	1.57
1:B:464:ARG:CD	6:A:870:HOH:O[5_454]	0.63	1.57
1:B:113:ASP:CA	1:B:429:GLU:CB[3_675]	0.63	1.57
1:A:102:LYS:CB	1:A:451:GLU:C[4_465]	0.64	1.56
1:A:103:LEU:O	1:A:198:ASP:CG[8_664]	0.64	1.56
1:A:113:ASP:N	1:B:449:ARG:NH1[5_454]	0.64	1.56
1:A:120:ILE:CD1	1:B:219:ALA:CA[5_454]	0.64	1.56
1:A:157:TYR:N	1:B:238:LEU:CA[5_454]	0.64	1.56
1:A:213:SER:CA	1:A:220:LYS:CA[6_574]	0.64	1.56
1:A:278:ILE:N	1:A:473:HIS:NE2[5_454]	0.64	1.56
1:B:94:SER:CA	1:B:95:ALA:N[2_485]	0.64	1.56
1:A:103:LEU:CA	1:A:198:ASP:CA[8_664]	0.65	1.55
1:A:110:SER:O	1:A:471:GLN:CD[3_675]	0.65	1.55
1:A:260:PHE:O	1:B:212:TYR:CD1[3_675]	0.65	1.55
1:A:264:LYS:N	1:A:307:ILE:N[8_664]	0.65	1.55
1:A:372:VAL:C	1:A:373:ASN:N[4_465]	0.65	1.55
1:A:397:ASP:CB	1:A:438:LEU:CA[4_465]	0.65	1.55
1:A:401:MET:N	4:A:814:GOL:O1[3_665]	0.65	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:408:GLU:OE1	1:B:230:ASN:ND2[5_454]	0.65	1.55
1:B:225:CYS:N	6:A:827:HOH:O[5_454]	0.65	1.55
1:B:317:PHE:CD2	1:B:363:ASP:C[3_675]	0.65	1.55
1:A:100:TYR:CB	1:A:201:TYR:C[8_664]	0.66	1.54
1:A:135:GLY:O	1:B:453:THR:CG2[5_454]	0.66	1.54
1:A:143:MET:C	1:B:214:TYR:C[5_454]	0.66	1.54
1:A:185:ASP:N	1:B:233:PHE:CD2[5_454]	0.66	1.54
1:A:206:LEU:CG	1:A:446:GLN:CA[6_574]	0.66	1.54
1:A:207:THR:CA	1:A:448:ARG:CB[6_574]	0.66	1.54
1:A:388:ARG:NH2	1:A:417:ARG:N[4_465]	0.66	1.54
1:A:430:LEU:N	1:A:433:ALA:N[4_465]	0.66	1.54
1:B:102:LYS:O	1:B:401:MET:O[3_675]	0.66	1.54
1:B:338:THR:C	1:B:375:HIS:O[3_675]	0.66	1.54
1:A:89:THR:N	1:A:164:PRO:CD[8_664]	0.67	1.53
1:A:99:ASP:CG	1:A:448:ARG:O[4_465]	0.67	1.53
1:A:105:VAL:CA	1:B:248:TYR:CE2[8_664]	0.67	1.53
1:A:107:PHE:CD2	1:A:280:PHE:CZ[8_664]	0.67	1.53
1:A:143:MET:CE	1:B:260:PHE:CE2[8_664]	0.67	1.53
1:A:156:PHE:CB	1:B:197:ASP:OD1[5_454]	0.67	1.53
1:A:181:LYS:CE	1:B:464:ARG:O[5_454]	0.67	1.53
1:A:214:TYR:CE1	1:A:221:ASP:OD2[6_574]	0.67	1.53
1:A:369:LYS:NZ	1:A:397:ASP:OD2[2_575]	0.67	1.53
1:A:375:HIS:NE2	1:A:375:HIS:NE2[4_465]	0.67	1.53
1:B:140:HIS:CA	1:B:435:ILE:CB[3_675]	0.67	1.53
1:B:218:ASN:OD1	1:B:269:PHE:CB[4_365]	0.67	1.53
1:B:318:ARG:O	1:B:442:ILE:O[3_675]	0.67	1.53
1:A:91:GLN:O	1:A:214:TYR:CD2[8_664]	0.68	1.52
1:A:156:PHE:CE1	1:B:236:SER:CA[5_454]	0.68	1.52
1:A:156:PHE:C	1:B:238:LEU:N[5_454]	0.68	1.52
1:A:250:ASN:ND2	1:A:291:ASN:ND2[5_454]	0.68	1.52
1:A:266:ILE:O	3:A:810:TYM:CZ2[8_664]	0.68	1.52
1:B:367:GLN:NE2	5:B:817:TRP:CZ2[4_365]	0.68	1.52
1:A:92:THR:O	1:A:166:SER:C[8_664]	0.69	1.51
1:A:109:SER:C	1:A:470:PHE:C[3_675]	0.69	1.51
1:A:126:GLN:CD	1:B:191:LEU:CB[5_454]	0.69	1.51
1:A:148:ASP:CG	1:B:165:SER:CA[5_454]	0.69	1.51
1:A:249:LYS:C	1:A:290:SER:OG[5_454]	0.69	1.51
1:A:271:ASP:N	1:B:461:MET:CG[3_675]	0.69	1.51
1:A:314:ASP:CA	1:A:316:TYR:CE2[8_664]	0.69	1.51
1:A:319:MET:CE	1:A:474:HIS:CG[5_454]	0.69	1.51
1:A:429:GLU:CA	1:A:429:GLU:O[4_465]	0.69	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:349:LYS:NZ	1:B:354:ASP:CG[3_675]	0.69	1.51
1:A:127:ARG:CB	1:B:227:PHE:CA[5_454]	0.70	1.50
1:A:138:PHE:CE2	1:A:202:LEU:CB[8_664]	0.70	1.50
1:A:181:LYS:N	1:B:462:THR:C[5_454]	0.70	1.50
1:A:238:LEU:O	1:A:465:LYS:C[5_454]	0.70	1.50
1:A:263:VAL:C	1:A:307:ILE:CA[8_664]	0.70	1.50
1:A:273:ASP:N	1:B:457:VAL:CA[3_675]	0.70	1.50
1:A:314:ASP:N	1:A:316:TYR:CZ[8_664]	0.70	1.50
1:B:113:ASP:N	1:B:429:GLU:CA[3_675]	0.70	1.50
1:B:116:LEU:CB	1:B:432:LYS:CE[3_675]	0.70	1.50
1:B:166:SER:OG	1:B:203:TRP:CZ2[4_365]	0.70	1.50
1:B:314:ASP:CA	1:B:359:ILE:CG2[3_675]	0.70	1.50
1:A:91:GLN:C	1:A:214:TYR:CD2[8_664]	0.71	1.49
1:A:122:ARG:CA	1:B:177:PHE:CD2[5_454]	0.71	1.49
1:A:152:ASN:ND2	1:B:200:LYS:NZ[5_454]	0.71	1.49
1:A:153:LYS:C	1:B:280:PHE:CZ[5_454]	0.71	1.49
1:A:214:TYR:CD1	1:A:221:ASP:CG[6_574]	0.71	1.49
1:A:217:GLU:CB	1:A:218:ASN:N[6_574]	0.71	1.49
1:A:239:ASP:OD1	1:A:456:ILE:N[6_574]	0.71	1.49
1:A:247:PHE:CE2	1:A:294:PRO:C[5_454]	0.71	1.49
1:A:277:LYS:CG	1:B:454:ASP:CG[3_675]	0.71	1.49
1:B:138:PHE:CA	1:B:431:LYS:CG[3_675]	0.71	1.49
1:B:140:HIS:O	1:B:435:ILE:CA[3_675]	0.71	1.49
1:B:318:ARG:N	1:B:442:ILE:CG2[3_675]	0.71	1.49
1:A:99:ASP:OD2	1:A:208:LEU:CA[8_664]	0.72	1.48
1:A:109:SER:C	1:A:470:PHE:O[3_675]	0.72	1.48
1:A:117:ILE:O	1:B:222:ILE:N[5_454]	0.72	1.48
1:A:179:PHE:CB	1:B:458:LYS:C[5_454]	0.72	1.48
1:A:186:VAL:CA	1:B:233:PHE:O[5_454]	0.72	1.48
1:A:208:LEU:CD2	1:A:451:GLU:CG[6_574]	0.72	1.48
1:A:247:PHE:CE1	1:A:294:PRO:CA[5_454]	0.72	1.48
1:A:335:LEU:CD2	1:B:216:VAL:CG1[5_454]	0.72	1.48
1:A:439:GLN:CB	4:A:814:GOL:O1[2_575]	0.72	1.48
1:B:111:LYS:CA	1:B:430:LEU:O[3_675]	0.72	1.48
1:B:306:LEU:C	1:B:366:LYS:CB[3_675]	0.72	1.48
1:A:103:LEU:C	1:A:198:ASP:CB[8_664]	0.73	1.47
1:A:115:GLU:OE1	1:B:362:THR:N[5_454]	0.73	1.47
1:A:120:ILE:CD1	1:B:260:PHE:C[8_664]	0.73	1.47
1:A:132:LEU:CD1	1:B:223:ILE:CD1[5_454]	0.73	1.47
1:A:137:PHE:CG	1:B:454:ASP:O[5_454]	0.73	1.47
1:A:153:LYS:O	1:B:280:PHE:CZ[5_454]	0.73	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:189:VAL:O	1:B:240:TYR:CG[5_454]	0.73	1.47
1:A:255:GLN:OE1	1:A:300:ARG:CZ[5_454]	0.73	1.47
1:A:267:PHE:CZ	1:A:317:PHE:CD2[8_664]	0.73	1.47
1:A:269:PHE:CA	1:A:308:PRO:CB[8_664]	0.73	1.47
1:A:375:HIS:CD2	1:A:375:HIS:CD2[3_665]	0.73	1.47
1:A:458:LYS:CD	1:A:458:LYS:CE[5_454]	0.73	1.47
1:B:113:ASP:C	1:B:429:GLU:CG[3_675]	0.73	1.47
1:A:107:PHE:CD2	1:A:280:PHE:CE1[8_664]	0.74	1.46
1:A:112:ILE:CD1	1:A:274:CYS:C[8_664]	0.74	1.46
1:A:167:GLU:C	1:A:167:GLU:O[6_574]	0.74	1.46
1:A:212:TYR:CG	1:A:452:VAL:CG1[6_574]	0.74	1.46
1:A:236:SER:OG	6:A:895:HOH:O[5_454]	0.74	1.46
1:A:238:LEU:CD1	1:A:451:GLU:C[6_574]	0.74	1.46
1:A:325:PRO:CA	1:A:326:ARG:CB[8_664]	0.74	1.46
1:A:354:ASP:O	1:A:354:ASP:OD2[8_664]	0.74	1.46
1:A:392:GLY:C	1:A:406:PHE:O[4_465]	0.74	1.46
1:A:428:GLY:C	1:A:430:LEU:C[4_465]	0.74	1.46
1:B:137:PHE:CE1	1:B:374:LYS:CB[3_675]	0.74	1.46
1:A:141:ARG:C	1:B:275:ILE:CB[8_664]	0.75	1.45
1:A:190:PRO:CB	1:B:241:MET:CA[5_454]	0.75	1.45
1:A:238:LEU:O	1:A:465:LYS:O[5_454]	0.75	1.45
1:A:239:ASP:OD2	1:A:455:GLU:C[6_574]	0.75	1.45
1:A:258:VAL:CG1	1:A:332:PRO:O[8_664]	0.75	1.45
1:A:367:GLN:N	1:A:402:TYR:OH[3_665]	0.75	1.45
1:A:467:SER:N	6:B:823:HOH:O[5_454]	0.75	1.45
1:B:202:LEU:CA	6:A:905:HOH:O[5_454]	0.75	1.45
1:B:316:TYR:CD1	1:B:360:PHE:CB[3_675]	0.75	1.45
1:A:112:ILE:CD1	1:B:220:LYS:CE[5_454]	0.76	1.44
1:A:155:PRO:C	1:B:198:ASP:CG[5_454]	0.76	1.44
1:A:177:PHE:O	1:B:462:THR:CG2[5_454]	0.76	1.44
1:A:181:LYS:CE	1:B:464:ARG:C[5_454]	0.76	1.44
1:A:197:ASP:OD2	1:A:452:VAL:O[6_574]	0.76	1.44
1:A:229:ILE:O	1:B:245:SER:CB[5_454]	0.76	1.44
1:A:239:ASP:C	1:A:455:GLU:CG[6_574]	0.76	1.44
1:A:401:MET:CB	6:A:852:HOH:O[4_465]	0.76	1.44
1:A:141:ARG:NE	1:A:472:HIS:CB[3_675]	0.77	1.43
1:A:143:MET:O	1:B:214:TYR:C[5_454]	0.77	1.43
1:A:210:GLN:N	1:A:224:ALA:CB[6_574]	0.77	1.43
1:A:246:GLY:N	1:A:293:PHE:CE2[5_454]	0.77	1.43
1:A:261:ASN:C	1:A:306:LEU:N[8_664]	0.77	1.43
1:A:304:GLN:C	1:B:238:LEU:CD1[5_454]	0.77	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:359:ILE:CD1	1:A:377:PHE:CA[3_665]	0.77	1.43
1:A:381:ARG:C	1:A:401:MET:O[4_465]	0.77	1.43
1:A:427:THR:OG1	1:A:435:ILE:CG2[2_575]	0.77	1.43
1:A:430:LEU:C	1:A:432:LYS:C[4_465]	0.77	1.43
1:B:167:GLU:OE2	1:B:276:GLY:O[4_365]	0.77	1.43
1:B:319:MET:C	1:B:446:GLN:CG[3_675]	0.77	1.43
1:A:116:LEU:CA	1:B:263:VAL:CG1[8_664]	0.78	1.42
1:A:122:ARG:CA	1:B:177:PHE:CG[5_454]	0.78	1.42
1:A:146:VAL:C	1:B:270:THR:O[8_664]	0.78	1.42
1:A:190:PRO:CG	1:B:241:MET:CA[5_454]	0.78	1.42
1:A:235:PHE:C	1:A:454:ASP:CG[6_574]	0.78	1.42
1:A:248:TYR:CG	1:A:297:PHE:CD2[5_454]	0.78	1.42
1:A:264:LYS:CB	1:B:239:ASP:OD2[3_675]	0.78	1.42
1:A:275:ILE:N	1:B:220:LYS:CE[3_675]	0.78	1.42
1:A:319:MET:N	1:A:320:THR:OG1[8_664]	0.78	1.42
1:A:387:HIS:C	1:A:413:LEU:CD2[4_465]	0.78	1.42
1:A:389:GLN:O	1:A:410:ASP:OD1[4_465]	0.78	1.42
1:A:455:GLU:CD	1:A:464:ARG:N[2_475]	0.78	1.42
1:A:469:ASP:OD1	1:B:252:VAL:CA[5_454]	0.78	1.42
1:B:319:MET:CE	6:B:832:HOH:O[3_675]	0.78	1.42
1:B:326:ARG:NH2	1:B:448:ARG:NE[3_675]	0.78	1.42
1:B:338:THR:N	1:B:376:ALA:N[3_675]	0.78	1.42
1:A:111:LYS:CG	1:B:255:GLN:CA[8_664]	0.79	1.41
1:A:135:GLY:N	1:B:451:GLU:O[5_454]	0.79	1.41
1:A:143:MET:C	1:B:278:ILE:CG1[8_664]	0.79	1.41
1:A:190:PRO:C	1:B:240:TYR:C[5_454]	0.79	1.41
1:A:334:LEU:CD1	1:A:474:HIS:N[3_675]	0.79	1.41
1:A:365:ALA:C	1:A:402:TYR:CD1[3_665]	0.79	1.41
1:A:372:VAL:N	1:A:373:ASN:O[2_575]	0.79	1.41
1:A:426:LEU:CB	1:A:436:GLU:CG[2_575]	0.79	1.41
1:A:430:LEU:CA	1:A:432:LYS:C[4_465]	0.79	1.41
1:A:453:THR:CA	6:A:895:HOH:O[2_475]	0.79	1.41
1:B:111:LYS:CD	1:B:430:LEU:CB[3_675]	0.79	1.41
1:B:138:PHE:CE1	1:B:376:ALA:CB[3_675]	0.79	1.41
1:B:338:THR:N	1:B:375:HIS:C[3_675]	0.79	1.41
1:B:339:PHE:CD1	1:B:344:GLN:NE2[3_675]	0.79	1.41
1:B:451:GLU:CG	6:B:886:HOH:O[4_365]	0.79	1.41
1:A:112:ILE:CG1	1:B:220:LYS:CE[5_454]	0.80	1.40
1:A:158:LEU:CD2	1:A:264:LYS:CD[8_664]	0.80	1.40
1:A:183:LEU:CB	6:A:861:HOH:O[8_664]	0.80	1.40
1:A:236:SER:OG	1:A:453:THR:C[6_574]	0.80	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:340:PHE:O	1:A:364:THR:CG2[4_465]	0.80	1.40
1:A:348:THR:O	1:A:362:THR:O[4_465]	0.80	1.40
1:A:388:ARG:N	1:A:413:LEU:CD2[4_465]	0.80	1.40
1:A:407:LEU:CD2	1:A:420:TYR:O[3_665]	0.80	1.40
1:A:429:GLU:N	1:A:432:LYS:C[2_575]	0.80	1.40
1:A:456:ILE:O	6:A:901:HOH:O[2_475]	0.80	1.40
1:B:110:SER:CB	1:B:433:ALA:O[3_675]	0.80	1.40
1:B:138:PHE:O	1:B:431:LYS:CA[3_675]	0.80	1.40
1:B:141:ARG:O	1:B:439:GLN:OE1[3_675]	0.80	1.40
1:B:221:ASP:OD2	1:B:263:VAL:CG1[4_365]	0.80	1.40
1:B:300:ARG:C	1:B:300:ARG:CB[2_475]	0.80	1.40
1:A:94:SER:N	1:A:214:TYR:CE1[8_664]	0.81	1.39
1:A:98:ILE:O	1:A:446:GLN:O[4_465]	0.81	1.39
1:A:107:PHE:CE2	1:A:280:PHE:CZ[8_664]	0.81	1.39
1:A:124:THR:OG1	1:B:193:ILE:CD1[5_454]	0.81	1.39
1:A:130:HIS:NE2	1:A:381:ARG:NH2[3_665]	0.81	1.39
1:A:191:LEU:CD1	1:B:243:MET:SD[5_454]	0.81	1.39
1:A:239:ASP:CG	1:A:456:ILE:N[6_574]	0.81	1.39
1:A:241:MET:SD	1:A:296:ILE:C[5_454]	0.81	1.39
1:A:279:SER:OG	1:A:471:GLN:CA[5_454]	0.81	1.39
1:A:354:ASP:CB	1:A:354:ASP:CB[8_664]	0.81	1.39
1:A:384:ILE:CB	1:A:400:PHE:CE2[4_465]	0.81	1.39
1:A:416:ILE:CD1	1:A:425:MET:C[3_665]	0.81	1.39
1:A:430:LEU:CA	1:A:433:ALA:N[4_465]	0.81	1.39
1:B:165:SER:CB	6:B:867:HOH:O[4_365]	0.81	1.39
1:A:100:TYR:N	1:A:201:TYR:CB[8_664]	0.82	1.38
1:A:205:ASP:CA	1:A:443:ALA:O[6_574]	0.82	1.38
1:A:372:VAL:CG1	1:A:431:LYS:CE[3_665]	0.82	1.38
1:A:372:VAL:O	1:A:373:ASN:C[3_665]	0.82	1.38
1:A:375:HIS:CE1	1:A:375:HIS:NE2[3_665]	0.82	1.38
1:B:140:HIS:O	1:B:435:ILE:C[3_675]	0.82	1.38
1:B:140:HIS:N	1:B:435:ILE:CG1[3_675]	0.82	1.38
1:B:213:SER:OG	1:B:275:ILE:CB[4_365]	0.82	1.38
1:B:318:ARG:CA	1:B:442:ILE:CB[3_675]	0.82	1.38
1:A:119:ARG:C	1:B:265:GLY:N[8_664]	0.83	1.37
1:A:142:ASP:O	1:B:214:TYR:N[5_454]	0.83	1.37
1:A:146:VAL:C	1:B:164:PRO:CG[5_454]	0.83	1.37
1:A:183:LEU:CD2	1:B:461:MET:CG[5_454]	0.83	1.37
1:A:208:LEU:CD2	1:A:451:GLU:CB[6_574]	0.83	1.37
1:A:347:GLN:N	1:A:361:LEU:C[4_465]	0.83	1.37
1:A:381:ARG:O	1:A:401:MET:C[4_465]	0.83	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:469:ASP:CG	1:B:252:VAL:CA[5_454]	0.83	1.37
1:B:110:SER:CA	1:B:433:ALA:O[3_675]	0.83	1.37
1:B:203:TRP:CD1	6:B:878:HOH:O[3_675]	0.83	1.37
1:B:210:GLN:C	1:B:274:CYS:CA[4_365]	0.83	1.37
1:B:307:ILE:C	1:B:366:LYS:O[3_675]	0.83	1.37
1:A:91:GLN:O	1:A:214:TYR:CE2[8_664]	0.84	1.36
1:A:91:GLN:C	1:A:449:ARG:CD[4_465]	0.84	1.36
1:A:94:SER:O	1:A:214:TYR:OH[8_664]	0.84	1.36
1:A:98:ILE:O	1:A:446:GLN:C[4_465]	0.84	1.36
1:A:110:SER:N	1:A:471:GLN:N[3_675]	0.84	1.36
1:A:127:ARG:CA	1:B:227:PHE:CB[5_454]	0.84	1.36
1:A:138:PHE:CE2	1:A:202:LEU:CG[8_664]	0.84	1.36
1:A:181:LYS:CG	1:B:464:ARG:N[5_454]	0.84	1.36
1:A:229:ILE:C	1:B:245:SER:OG[5_454]	0.84	1.36
1:A:231:LYS:CB	1:B:244:SER:OG[5_454]	0.84	1.36
1:A:240:TYR:CZ	1:A:240:TYR:OH[5_454]	0.84	1.36
1:A:255:GLN:N	6:A:830:HOH:O[5_454]	0.84	1.36
1:A:281:PRO:CA	1:A:314:ASP:OD1[8_664]	0.84	1.36
1:A:348:THR:N	1:A:362:THR:OG1[4_465]	0.84	1.36
1:A:371:LYS:CB	1:A:375:HIS:O[3_665]	0.84	1.36
1:B:321:ARG:NE	1:B:439:GLN:O[3_675]	0.84	1.36
1:B:339:PHE:CE2	1:B:343:LEU:N[3_675]	0.84	1.36
1:A:155:PRO:O	1:B:198:ASP:CB[5_454]	0.85	1.35
1:A:159:TYR:CD1	1:A:265:GLY:O[8_664]	0.85	1.35
1:A:210:GLN:NE2	1:A:445:HIS:CD2[6_574]	0.85	1.35
1:A:230:ASN:N	1:B:245:SER:OG[5_454]	0.85	1.35
1:A:240:TYR:CD2	1:A:295:GLN:CD[5_454]	0.85	1.35
1:A:261:ASN:C	1:A:305:CYS:C[8_664]	0.85	1.35
1:A:278:ILE:CA	1:A:473:HIS:CD2[5_454]	0.85	1.35
1:A:278:ILE:CD1	1:B:216:VAL:CG1[3_675]	0.85	1.35
1:A:316:TYR:CA	1:A:316:TYR:CA[8_664]	0.85	1.35
1:A:369:LYS:NZ	1:A:397:ASP:CG[2_575]	0.85	1.35
1:A:426:LEU:N	1:A:436:GLU:CD[2_575]	0.85	1.35
1:A:453:THR:CG2	1:A:465:LYS:CB[2_475]	0.85	1.35
1:B:111:LYS:CG	1:B:430:LEU:CA[3_675]	0.85	1.35
1:B:137:PHE:CE1	1:B:374:LYS:CG[3_675]	0.85	1.35
1:B:257:HIS:O	1:B:450:LYS:N[3_675]	0.85	1.35
1:B:333:ALA:O	1:B:365:ALA:C[3_675]	0.85	1.35
1:A:96:LYS:CB	1:A:445:HIS:CB[4_465]	0.86	1.34
1:A:99:ASP:O	1:A:450:LYS:CA[4_465]	0.86	1.34
1:A:103:LEU:CB	1:A:198:ASP:C[8_664]	0.86	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:141:ARG:O	1:B:275:ILE:CG2[8_664]	0.86	1.34
1:A:239:ASP:N	1:A:465:LYS:N[5_454]	0.86	1.34
1:A:264:LYS:C	1:A:475:HIS:NE2[5_454]	0.86	1.34
1:A:304:GLN:OE1	1:B:211:ALA:CB[5_454]	0.86	1.34
1:A:368:ILE:CB	1:A:398:VAL:CG1[3_665]	0.86	1.34
1:A:395:ASP:CA	1:A:441:LEU:CA[4_465]	0.86	1.34
1:A:395:ASP:O	1:A:441:LEU:C[4_465]	0.86	1.34
1:A:426:LEU:CA	1:A:436:GLU:CG[2_575]	0.86	1.34
1:B:165:SER:CA	6:B:867:HOH:O[4_365]	0.86	1.34
1:B:218:ASN:ND2	1:B:269:PHE:CD2[4_365]	0.86	1.34
1:B:302:ASP:OD2	1:B:303:ILE:CB[2_475]	0.86	1.34
1:B:322:ASP:N	1:B:443:ALA:O[3_675]	0.86	1.34
1:B:338:THR:CG2	1:B:376:ALA:O[3_675]	0.86	1.34
1:A:119:ARG:NH1	1:B:269:PHE:CD1[8_664]	0.87	1.33
1:A:131:PHE:C	1:B:456:ILE:CB[5_454]	0.87	1.33
1:A:147:LEU:N	1:B:164:PRO:CB[5_454]	0.87	1.33
1:A:247:PHE:CZ	1:A:294:PRO:CA[5_454]	0.87	1.33
1:A:260:PHE:C	1:B:212:TYR:CD1[3_675]	0.87	1.33
1:A:389:GLN:CD	6:A:878:HOH:O[4_465]	0.87	1.33
1:A:420:TYR:CG	1:A:437:VAL:CG2[4_465]	0.87	1.33
1:B:105:VAL:CB	1:B:404:THR:N[3_675]	0.87	1.33
1:B:336:HIS:CA	1:B:372:VAL:N[3_675]	0.87	1.33
1:B:338:THR:CA	1:B:375:HIS:O[3_675]	0.87	1.33
1:A:88:TRP:CA	1:A:163:GLY:C[8_664]	0.88	1.32
1:A:138:PHE:CZ	1:A:202:LEU:CB[8_664]	0.88	1.32
1:A:187:PHE:C	1:B:235:PHE:CE1[5_454]	0.88	1.32
1:A:214:TYR:CE1	1:A:221:ASP:CG[6_574]	0.88	1.32
1:A:238:LEU:CA	1:A:465:LYS:CB[5_454]	0.88	1.32
1:A:257:HIS:O	1:A:331:LYS:CB[8_664]	0.88	1.32
1:A:270:THR:OG1	1:B:461:MET:CA[3_675]	0.88	1.32
1:A:284:GLN:NE2	1:A:315:PRO:CG[8_664]	0.88	1.32
1:A:284:GLN:C	1:A:318:ARG:NE[8_664]	0.88	1.32
1:A:314:ASP:C	1:A:316:TYR:CD2[8_664]	0.88	1.32
1:A:326:ARG:NH1	4:B:812:GOL:C3[3_675]	0.88	1.32
1:A:334:LEU:CG	1:A:474:HIS:N[3_675]	0.88	1.32
1:A:359:ILE:CB	1:A:377:PHE:CB[3_665]	0.88	1.32
1:A:372:VAL:CG1	1:A:431:LYS:NZ[3_665]	0.88	1.32
1:A:384:ILE:CA	1:A:400:PHE:CE2[4_465]	0.88	1.32
1:A:392:GLY:O	1:A:406:PHE:O[4_465]	0.88	1.32
1:A:459:GLU:CB	1:A:459:GLU:CG[2_475]	0.88	1.32
1:B:138:PHE:CB	1:B:431:LYS:CD[3_675]	0.88	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:219:ALA:O	1:B:261:ASN:N[4_365]	0.88	1.32
1:B:317:PHE:CD1	1:B:363:ASP:CB[3_675]	0.88	1.32
1:B:322:ASP:O	1:B:447:ALA:CB[3_675]	0.88	1.32
1:A:113:ASP:C	1:B:449:ARG:CD[5_454]	0.89	1.31
1:A:119:ARG:CB	1:B:263:VAL:O[8_664]	0.89	1.31
1:A:122:ARG:NH2	1:B:266:ILE:CA[8_664]	0.89	1.31
1:A:128:PRO:CB	1:B:223:ILE:CA[5_454]	0.89	1.31
1:A:129:HIS:CA	1:B:460:PHE:CZ[5_454]	0.89	1.31
1:A:131:PHE:C	1:B:456:ILE:CG2[5_454]	0.89	1.31
1:A:142:ASP:N	1:B:275:ILE:CA[8_664]	0.89	1.31
1:A:145:GLN:CB	1:B:274:CYS:N[8_664]	0.89	1.31
1:A:156:PHE:CZ	1:B:271:ASP:OD2[8_664]	0.89	1.31
1:A:212:TYR:CB	1:A:452:VAL:CG1[6_574]	0.89	1.31
1:A:278:ILE:C	1:A:473:HIS:CG[5_454]	0.89	1.31
1:A:314:ASP:N	1:A:316:TYR:CE2[8_664]	0.89	1.31
1:A:316:TYR:C	1:A:316:TYR:C[8_664]	0.89	1.31
1:A:435:ILE:C	6:A:892:HOH:O[2_575]	0.89	1.31
1:B:103:LEU:C	1:B:402:TYR:CB[3_675]	0.89	1.31
1:B:107:PHE:CA	1:B:406:PHE:CD2[3_675]	0.89	1.31
1:B:174:LEU:CB	6:B:911:HOH:O[4_365]	0.89	1.31
1:B:335:LEU:CG	1:B:369:LYS:CG[3_675]	0.89	1.31
1:A:100:TYR:CB	1:A:202:LEU:N[8_664]	0.90	1.30
1:A:109:SER:OG	6:A:842:HOH:O[8_664]	0.90	1.30
1:A:111:LYS:CB	1:B:255:GLN:CB[8_664]	0.90	1.30
1:A:137:PHE:CG	1:A:273:ASP:OD1[8_664]	0.90	1.30
1:A:140:HIS:CA	1:A:473:HIS:CE1[3_675]	0.90	1.30
1:A:155:PRO:CA	1:B:198:ASP:OD2[5_454]	0.90	1.30
1:A:157:TYR:CB	1:B:238:LEU:O[5_454]	0.90	1.30
1:A:157:TYR:N	1:B:238:LEU:N[5_454]	0.90	1.30
1:A:207:THR:C	1:A:448:ARG:CB[6_574]	0.90	1.30
1:A:214:TYR:CD1	1:A:221:ASP:OD1[6_574]	0.90	1.30
1:A:252:VAL:O	1:A:302:ASP:OD2[5_454]	0.90	1.30
1:A:258:VAL:O	1:B:209:ASP:C[3_675]	0.90	1.30
1:A:289:PHE:CZ	1:A:322:ASP:OD2[8_664]	0.90	1.30
1:A:304:GLN:CA	6:A:897:HOH:O[8_664]	0.90	1.30
1:A:321:ARG:O	1:A:323:VAL:CB[8_664]	0.90	1.30
1:A:329:TYR:CE2	1:A:329:TYR:CZ[5_454]	0.90	1.30
1:A:371:LYS:C	1:A:374:LYS:CA[2_575]	0.90	1.30
1:A:375:HIS:CG	1:A:375:HIS:CD2[4_465]	0.90	1.30
1:A:409:ASP:CB	1:A:422:SER:CA[3_665]	0.90	1.30
1:A:468:PHE:CE2	1:B:247:PHE:CG[5_454]	0.90	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:468:PHE:N	1:B:248:TYR:C[5_454]	0.90	1.30
6:A:833:HOH:O	6:B:833:HOH:O[5_454]	0.90	1.30
1:B:103:LEU:C	1:B:402:TYR:CA[3_675]	0.90	1.30
1:B:111:LYS:CD	1:B:430:LEU:CG[3_675]	0.90	1.30
1:B:148:ASP:CB	1:B:152:ASN:ND2[2_475]	0.90	1.30
1:B:314:ASP:CB	1:B:359:ILE:CG2[3_675]	0.90	1.30
1:A:112:ILE:CG2	1:B:258:VAL:O[8_664]	0.91	1.29
1:A:113:ASP:O	1:B:449:ARG:CG[5_454]	0.91	1.29
1:A:116:LEU:O	1:B:263:VAL:N[8_664]	0.91	1.29
1:A:119:ARG:O	1:B:264:LYS:C[8_664]	0.91	1.29
1:A:127:ARG:C	1:B:227:PHE:CB[5_454]	0.91	1.29
1:A:145:GLN:C	1:B:273:ASP:CA[8_664]	0.91	1.29
1:A:152:ASN:C	1:B:199:GLU:OE2[5_454]	0.91	1.29
1:A:159:TYR:CA	1:A:265:GLY:CA[8_664]	0.91	1.29
1:A:259:THR:O	1:A:333:ALA:N[8_664]	0.91	1.29
1:A:262:GLN:N	1:A:305:CYS:C[8_664]	0.91	1.29
1:A:325:PRO:CA	1:A:326:ARG:CG[8_664]	0.91	1.29
1:A:325:PRO:CB	1:A:326:ARG:CB[8_664]	0.91	1.29
1:A:456:ILE:C	6:A:901:HOH:O[2_475]	0.91	1.29
5:B:817:TRP:CG	6:A:841:HOH:O[5_454]	0.91	1.29
1:B:100:TYR:CA	1:B:398:VAL:C[3_675]	0.91	1.29
1:B:307:ILE:C	1:B:366:LYS:C[3_675]	0.91	1.29
1:B:313:GLN:N	1:B:358:SER:O[3_675]	0.91	1.29
1:A:129:HIS:CA	1:B:460:PHE:CE2[5_454]	0.92	1.28
1:A:141:ARG:O	1:B:213:SER:CB[5_454]	0.92	1.28
1:A:152:ASN:CA	1:B:199:GLU:OE2[5_454]	0.92	1.28
1:A:191:LEU:CG	1:B:243:MET:SD[5_454]	0.92	1.28
1:A:247:PHE:CB	1:A:293:PHE:CA[5_454]	0.92	1.28
1:A:254:ILE:C	6:A:830:HOH:O[5_454]	0.92	1.28
1:A:260:PHE:CB	1:B:212:TYR:O[3_675]	0.92	1.28
1:A:426:LEU:CB	1:A:436:GLU:CB[2_575]	0.92	1.28
1:B:197:ASP:CA	1:B:272:SER:N[4_365]	0.92	1.28
1:A:101:ASP:OD1	1:A:201:TYR:CE2[8_664]	0.93	1.27
1:A:140:HIS:O	1:A:279:SER:OG[8_664]	0.93	1.27
1:A:145:GLN:N	1:B:214:TYR:CB[5_454]	0.93	1.27
1:A:157:TYR:CG	1:B:238:LEU:O[5_454]	0.93	1.27
1:A:180:THR:C	1:B:462:THR:CA[5_454]	0.93	1.27
1:A:181:LYS:CA	1:B:462:THR:C[5_454]	0.93	1.27
1:A:182:TRP:CD1	1:B:232:THR:O[5_454]	0.93	1.27
1:A:203:TRP:O	1:A:338:THR:CB[8_664]	0.93	1.27
1:A:241:MET:CA	1:A:296:ILE:CB[5_454]	0.93	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:250:ASN:CG	1:A:291:ASN:ND2[5_454]	0.93	1.27
1:A:371:LYS:CA	1:A:374:LYS:O[2_575]	0.93	1.27
1:A:468:PHE:N	1:B:248:TYR:CA[5_454]	0.93	1.27
1:B:217:GLU:CB	1:B:278:ILE:CG2[4_365]	0.93	1.27
1:B:257:HIS:CB	1:B:450:LYS:CA[3_675]	0.93	1.27
1:B:306:LEU:O	1:B:366:LYS:CG[3_675]	0.93	1.27
1:B:317:PHE:CG	1:B:363:ASP:C[3_675]	0.93	1.27
1:B:320:THR:C	1:B:446:GLN:OE1[3_675]	0.93	1.27
1:B:322:ASP:CG	1:B:444:GLU:C[3_675]	0.93	1.27
1:A:88:TRP:C	1:A:163:GLY:C[8_664]	0.94	1.26
1:A:89:THR:N	1:A:164:PRO:N[8_664]	0.94	1.26
1:A:100:TYR:N	1:A:201:TYR:CA[8_664]	0.94	1.26
1:A:102:LYS:CG	1:A:238:LEU:CD1[8_664]	0.94	1.26
1:A:109:SER:O	1:A:470:PHE:C[3_675]	0.94	1.26
1:A:110:SER:O	1:A:471:GLN:CG[3_675]	0.94	1.26
1:A:117:ILE:CB	1:B:220:LYS:O[5_454]	0.94	1.26
1:A:120:ILE:CG1	1:B:260:PHE:O[8_664]	0.94	1.26
1:A:134:ARG:NE	1:A:390:PHE:N[3_665]	0.94	1.26
1:A:145:GLN:OE1	1:B:214:TYR:CE2[5_454]	0.94	1.26
1:A:179:PHE:CZ	1:B:457:VAL:O[5_454]	0.94	1.26
1:A:214:TYR:CB	1:A:449:ARG:NE[6_574]	0.94	1.26
1:A:255:GLN:CG	1:A:300:ARG:CD[5_454]	0.94	1.26
1:A:282:ALA:CB	1:A:472:HIS:CG[5_454]	0.94	1.26
1:A:284:GLN:NE2	1:A:315:PRO:CB[8_664]	0.94	1.26
1:A:439:GLN:OE1	4:A:814:GOL:O2[2_575]	0.94	1.26
1:B:100:TYR:CA	1:B:398:VAL:CA[3_675]	0.94	1.26
1:B:101:ASP:CA	1:B:400:PHE:CA[3_675]	0.94	1.26
1:B:102:LYS:CA	1:B:401:MET:CA[3_675]	0.94	1.26
1:A:120:ILE:CA	1:B:222:ILE:CG1[5_454]	0.95	1.25
1:A:126:GLN:OE1	1:B:191:LEU:CB[5_454]	0.95	1.25
1:A:132:LEU:O	1:B:452:VAL:CB[5_454]	0.95	1.25
1:A:135:GLY:C	1:B:453:THR:CG2[5_454]	0.95	1.25
1:A:139:SER:CA	1:A:276:GLY:C[8_664]	0.95	1.25
1:A:142:ASP:N	1:B:275:ILE:C[8_664]	0.95	1.25
1:A:146:VAL:CG1	1:B:271:ASP:CA[8_664]	0.95	1.25
1:A:150:TYR:OH	1:B:194:GLN:CB[5_454]	0.95	1.25
1:A:151:GLU:OE1	1:B:268:GLY:O[8_664]	0.95	1.25
1:A:151:GLU:C	5:B:817:TRP:O[5_454]	0.95	1.25
1:A:157:TYR:CA	1:B:238:LEU:C[5_454]	0.95	1.25
1:A:188:ASN:N	1:B:235:PHE:CE1[5_454]	0.95	1.25
1:A:199:GLU:C	1:A:450:LYS:CE[6_574]	0.95	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:228:ASP:CG	1:B:294:PRO:CG[5_454]	0.95	1.25
1:A:231:LYS:O	1:B:244:SER:N[5_454]	0.95	1.25
1:A:235:PHE:C	1:A:454:ASP:OD2[6_574]	0.95	1.25
1:A:263:VAL:O	1:A:307:ILE:CA[8_664]	0.95	1.25
1:A:273:ASP:CA	1:B:457:VAL:CB[3_675]	0.95	1.25
1:A:278:ILE:CD1	1:A:335:LEU:CG[8_664]	0.95	1.25
1:A:319:MET:O	1:A:320:THR:C[8_664]	0.95	1.25
1:A:326:ARG:N	1:A:326:ARG:N[8_664]	0.95	1.25
1:A:370:THR:O	1:A:371:LYS:C[3_665]	0.95	1.25
1:B:160:THR:C	6:A:822:HOH:O[5_454]	0.95	1.25
1:B:101:ASP:O	1:B:400:PHE:O[3_675]	0.95	1.25
1:B:113:ASP:CA	1:B:429:GLU:CA[3_675]	0.95	1.25
1:B:318:ARG:O	1:B:442:ILE:C[3_675]	0.95	1.25
1:A:111:LYS:CA	1:B:255:GLN:CB[8_664]	0.96	1.24
1:A:111:LYS:CG	1:B:255:GLN:N[8_664]	0.96	1.24
1:A:122:ARG:CB	1:B:177:PHE:CD2[5_454]	0.96	1.24
1:A:129:HIS:C	1:B:460:PHE:CE2[5_454]	0.96	1.24
1:A:144:ASN:ND2	1:B:167:GLU:CA[5_454]	0.96	1.24
1:A:148:ASP:N	1:B:164:PRO:CA[5_454]	0.96	1.24
1:A:155:PRO:CB	1:B:198:ASP:OD2[5_454]	0.96	1.24
1:A:179:PHE:CB	1:B:459:GLU:N[5_454]	0.96	1.24
1:A:214:TYR:CZ	1:A:221:ASP:OD2[6_574]	0.96	1.24
1:A:228:ASP:CG	1:B:294:PRO:CD[5_454]	0.96	1.24
1:A:241:MET:CG	1:A:296:ILE:O[5_454]	0.96	1.24
1:A:373:ASN:ND2	1:A:435:ILE:CD1[3_665]	0.96	1.24
1:A:432:LYS:CD	1:A:433:ALA:CA[3_665]	0.96	1.24
5:B:817:TRP:CD1	6:A:841:HOH:O[5_454]	0.96	1.24
1:B:452:VAL:O	6:A:860:HOH:O[5_454]	0.96	1.24
1:B:249:LYS:CE	6:A:875:HOH:O[5_454]	0.96	1.24
1:B:141:ARG:CZ	1:B:438:LEU:CA[3_675]	0.96	1.24
1:B:236:SER:CA	1:B:271:ASP:OD2[4_365]	0.96	1.24
1:B:322:ASP:N	1:B:443:ALA:C[3_675]	0.96	1.24
1:B:328:GLY:C	1:B:469:ASP:C[2_475]	0.96	1.24
1:B:349:LYS:NZ	1:B:354:ASP:OD1[3_675]	0.96	1.24
1:A:143:MET:SD	1:B:215:ALA:C[5_454]	0.97	1.23
1:A:143:MET:N	1:B:213:SER:O[5_454]	0.97	1.23
1:A:199:GLU:CA	1:A:450:LYS:CE[6_574]	0.97	1.23
1:A:217:GLU:N	1:A:217:GLU:N[6_574]	0.97	1.23
1:A:231:LYS:C	1:B:244:SER:N[5_454]	0.97	1.23
1:A:239:ASP:N	1:A:453:THR:CB[6_574]	0.97	1.23
1:A:278:ILE:CG1	1:B:216:VAL:CG1[3_675]	0.97	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:319:MET:CA	1:A:320:THR:OG1[8_664]	0.97	1.23
1:A:383:THR:O	1:A:404:THR:CG2[4_465]	0.97	1.23
1:A:467:SER:O	1:B:247:PHE:O[5_454]	0.97	1.23
1:B:137:PHE:N	1:B:373:ASN:O[3_675]	0.97	1.23
1:B:162:ARG:NE	1:B:268:GLY:C[4_365]	0.97	1.23
1:B:307:ILE:N	1:B:366:LYS:CB[3_675]	0.97	1.23
1:B:319:MET:O	1:B:446:GLN:CB[3_675]	0.97	1.23
1:B:326:ARG:CD	1:B:447:ALA:O[3_675]	0.97	1.23
1:A:94:SER:CB	1:A:445:HIS:NE2[4_465]	0.98	1.22
1:A:101:ASP:O	1:A:465:LYS:NZ[3_675]	0.98	1.22
1:A:114:LYS:CG	1:B:445:HIS:O[5_454]	0.98	1.22
1:A:117:ILE:CG2	1:B:262:GLN:CG[8_664]	0.98	1.22
1:A:137:PHE:CD1	1:A:273:ASP:OD1[8_664]	0.98	1.22
1:A:141:ARG:NE	1:A:472:HIS:CG[3_675]	0.98	1.22
1:A:142:ASP:C	1:B:214:TYR:N[5_454]	0.98	1.22
1:A:145:GLN:CD	1:B:214:TYR:CE2[5_454]	0.98	1.22
1:A:153:LYS:CD	1:B:284:GLN:OE1[5_454]	0.98	1.22
1:A:187:PHE:O	1:B:235:PHE:CZ[5_454]	0.98	1.22
1:A:253:LYS:CB	1:A:301:THR:O[5_454]	0.98	1.22
1:A:273:ASP:N	1:B:457:VAL:CB[3_675]	0.98	1.22
1:A:282:ALA:O	1:A:299:ASP:CB[5_454]	0.98	1.22
1:A:322:ASP:O	1:A:323:VAL:C[8_664]	0.98	1.22
1:A:348:THR:N	1:A:362:THR:CB[4_465]	0.98	1.22
1:A:368:ILE:O	1:A:376:ALA:CB[3_665]	0.98	1.22
1:A:400:PHE:N	1:A:435:ILE:O[4_465]	0.98	1.22
1:B:108:GLY:O	1:B:437:VAL:CG1[3_675]	0.98	1.22
1:B:195:MET:CB	1:B:271:ASP:OD1[4_365]	0.98	1.22
1:B:302:ASP:OD1	1:B:303:ILE:CG1[2_475]	0.98	1.22
1:B:307:ILE:O	1:B:366:LYS:O[3_675]	0.98	1.22
1:B:315:PRO:O	1:B:361:LEU:CA[3_675]	0.98	1.22
1:B:320:THR:N	1:B:446:GLN:CG[3_675]	0.98	1.22
1:B:320:THR:N	1:B:446:GLN:CD[3_675]	0.98	1.22
1:B:334:LEU:CD2	1:B:368:ILE:CB[3_675]	0.98	1.22
1:B:335:LEU:CA	1:B:369:LYS:C[3_675]	0.98	1.22
1:A:91:GLN:CA	1:A:449:ARG:CD[4_465]	0.99	1.21
1:A:124:THR:CG2	1:B:193:ILE:CG2[5_454]	0.99	1.21
1:A:147:LEU:CB	1:B:269:PHE:C[8_664]	0.99	1.21
1:A:148:ASP:OD2	6:B:867:HOH:O[8_664]	0.99	1.21
1:A:151:GLU:O	5:B:817:TRP:C[5_454]	0.99	1.21
1:A:171:VAL:CB	1:A:377:PHE:CZ[3_665]	0.99	1.21
1:A:186:VAL:CB	1:B:233:PHE:O[5_454]	0.99	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:225:CYS:C	6:A:816:HOH:O[3_665]	0.99	1.21
1:A:319:MET:O	1:A:320:THR:CA[8_664]	0.99	1.21
1:A:371:LYS:O	1:A:375:HIS:N[3_665]	0.99	1.21
1:A:430:LEU:C	1:A:432:LYS:CA[4_465]	0.99	1.21
1:B:254:ILE:C	6:B:893:HOH:O[3_675]	0.99	1.21
1:B:319:MET:SD	6:B:891:HOH:O[3_675]	0.99	1.21
1:B:319:MET:CG	6:B:891:HOH:O[3_675]	0.99	1.21
1:B:328:GLY:CA	1:B:469:ASP:CA[2_475]	0.99	1.21
1:B:335:LEU:C	1:B:369:LYS:C[3_675]	0.99	1.21
1:B:347:GLN:CA	1:B:347:GLN:CB[3_675]	0.99	1.21
1:A:95:ALA:CA	1:A:361:LEU:CD2[4_465]	1.00	1.20
1:A:105:VAL:CB	1:B:248:TYR:CE2[8_664]	1.00	1.20
1:A:113:ASP:C	1:B:449:ARG:CG[5_454]	1.00	1.20
1:A:142:ASP:CA	1:B:275:ILE:CA[8_664]	1.00	1.20
1:A:145:GLN:CA	1:B:273:ASP:CB[8_664]	1.00	1.20
1:A:148:ASP:CG	6:B:867:HOH:O[8_664]	1.00	1.20
1:A:205:ASP:OD2	1:A:444:GLU:N[6_574]	1.00	1.20
1:A:239:ASP:N	1:A:453:THR:OG1[6_574]	1.00	1.20
1:A:240:TYR:OH	1:A:240:TYR:OH[5_454]	1.00	1.20
1:A:257:HIS:C	1:A:331:LYS:CB[8_664]	1.00	1.20
1:A:270:THR:OG1	1:B:461:MET:N[3_675]	1.00	1.20
1:A:273:ASP:OD1	1:B:454:ASP:O[3_675]	1.00	1.20
1:A:365:ALA:C	1:A:402:TYR:CE1[3_665]	1.00	1.20
1:A:381:ARG:CG	1:A:404:THR:O[4_465]	1.00	1.20
1:A:386:GLU:OE1	6:A:879:HOH:O[4_465]	1.00	1.20
1:A:426:LEU:N	1:A:436:GLU:OE2[2_575]	1.00	1.20
1:A:428:GLY:C	1:A:432:LYS:C[2_575]	1.00	1.20
1:A:430:LEU:N	1:A:432:LYS:CB[2_575]	1.00	1.20
6:A:850:HOH:O	6:A:896:HOH:O[6_574]	1.00	1.20
1:B:138:PHE:CA	1:B:431:LYS:CD[3_675]	1.00	1.20
1:B:214:TYR:CE1	1:B:277:LYS:N[4_365]	1.00	1.20
1:B:218:ASN:C	1:B:260:PHE:O[4_365]	1.00	1.20
1:B:258:VAL:CG1	1:B:449:ARG:CD[3_675]	1.00	1.20
1:B:337:SER:N	1:B:371:LYS:O[3_675]	1.00	1.20
1:A:105:VAL:CG2	1:B:248:TYR:CD2[8_664]	1.01	1.19
1:A:106:ARG:CG	1:A:237:ASP:CG[8_664]	1.01	1.19
1:A:131:PHE:CB	1:B:456:ILE:CA[5_454]	1.01	1.19
1:A:139:SER:CA	1:A:277:LYS:N[8_664]	1.01	1.19
1:A:143:MET:N	1:B:213:SER:C[5_454]	1.01	1.19
1:A:167:GLU:CA	1:A:167:GLU:O[6_574]	1.01	1.19
1:A:179:PHE:CD2	1:B:458:LYS:CA[5_454]	1.01	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:210:GLN:NE2	1:A:445:HIS:CG[6_574]	1.01	1.19
1:A:231:LYS:CE	1:B:292:SER:C[5_454]	1.01	1.19
1:A:252:VAL:O	1:A:302:ASP:CG[5_454]	1.01	1.19
1:A:256:LYS:O	1:B:210:GLN:CD[3_675]	1.01	1.19
1:A:263:VAL:CG1	1:A:474:HIS:CA[5_454]	1.01	1.19
1:A:306:LEU:CA	1:B:212:TYR:CD1[5_454]	1.01	1.19
1:A:392:GLY:CA	1:A:407:LEU:N[4_465]	1.01	1.19
1:A:420:TYR:CE2	1:A:437:VAL:CB[4_465]	1.01	1.19
1:A:430:LEU:N	1:A:432:LYS:CG[2_575]	1.01	1.19
1:A:467:SER:CB	1:B:246:GLY:O[5_454]	1.01	1.19
1:B:307:ILE:CB	1:B:367:GLN:N[3_675]	1.01	1.19
1:A:91:GLN:CA	1:A:449:ARG:CG[4_465]	1.02	1.18
1:A:97:GLY:CA	1:A:206:LEU:CD2[8_664]	1.02	1.18
1:A:116:LEU:N	1:B:221:ASP:OD2[5_454]	1.02	1.18
1:A:131:PHE:CZ	6:B:857:HOH:O[5_454]	1.02	1.18
1:A:132:LEU:N	1:B:456:ILE:CG2[5_454]	1.02	1.18
1:A:136:ILE:N	1:B:453:THR:OG1[5_454]	1.02	1.18
1:A:150:TYR:CA	1:B:196:THR:OG1[5_454]	1.02	1.18
1:A:179:PHE:CG	1:B:458:LYS:C[5_454]	1.02	1.18
1:A:190:PRO:CA	1:B:240:TYR:O[5_454]	1.02	1.18
1:A:212:TYR:CB	1:A:452:VAL:CB[6_574]	1.02	1.18
1:A:213:SER:OG	1:A:221:ASP:N[6_574]	1.02	1.18
1:A:241:MET:CB	1:A:296:ILE:CA[5_454]	1.02	1.18
1:A:250:ASN:C	1:A:300:ARG:O[5_454]	1.02	1.18
1:A:253:LYS:NZ	1:A:329:TYR:CG[5_454]	1.02	1.18
1:A:371:LYS:CB	1:A:375:HIS:C[3_665]	1.02	1.18
1:A:372:VAL:CA	1:A:373:ASN:C[2_575]	1.02	1.18
1:A:373:ASN:N	1:A:373:ASN:N[3_665]	1.02	1.18
1:A:374:LYS:CA	1:A:375:HIS:N[4_465]	1.02	1.18
1:A:395:ASP:C	1:A:441:LEU:C[4_465]	1.02	1.18
1:B:256:LYS:CG	2:A:804:CL:CL[8_664]	1.02	1.18
1:B:169:MET:CA	1:B:267:PHE:CG[4_365]	1.02	1.18
1:A:117:ILE:CB	1:B:262:GLN:CG[8_664]	1.03	1.17
1:A:120:ILE:CD1	1:B:219:ALA:C[5_454]	1.03	1.17
1:A:137:PHE:CZ	6:A:906:HOH:O[8_664]	1.03	1.17
1:A:148:ASP:N	1:B:164:PRO:N[5_454]	1.03	1.17
1:A:150:TYR:CE1	1:B:194:GLN:CG[5_454]	1.03	1.17
1:A:167:GLU:OE1	1:A:169:MET:SD[6_574]	1.03	1.17
1:A:247:PHE:CZ	1:A:294:PRO:C[5_454]	1.03	1.17
1:A:256:LYS:CA	1:B:210:GLN:NE2[3_675]	1.03	1.17
1:A:258:VAL:CA	1:B:209:ASP:CB[3_675]	1.03	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:260:PHE:C	1:B:212:TYR:CG[3_675]	1.03	1.17
1:A:279:SER:CB	1:A:471:GLN:C[5_454]	1.03	1.17
1:A:307:ILE:CD1	1:A:475:HIS:N[3_675]	1.03	1.17
1:A:312:ASP:C	6:A:889:HOH:O[8_664]	1.03	1.17
1:A:351:SER:OG	1:A:351:SER:OG[8_664]	1.03	1.17
1:A:400:PHE:CD2	1:A:440:PRO:CD[4_465]	1.03	1.17
1:A:408:GLU:CD	1:B:230:ASN:ND2[5_454]	1.03	1.17
1:B:101:ASP:O	1:B:400:PHE:C[3_675]	1.03	1.17
1:B:213:SER:CB	1:B:275:ILE:CB[4_365]	1.03	1.17
1:B:320:THR:CA	1:B:446:GLN:OE1[3_675]	1.03	1.17
1:A:96:LYS:CA	1:A:445:HIS:CB[4_465]	1.04	1.16
1:A:107:PHE:C	1:A:298:ARG:CA[3_675]	1.04	1.16
1:A:110:SER:OG	6:A:847:HOH:O[3_675]	1.04	1.16
1:A:121:GLU:O	1:B:177:PHE:CD1[5_454]	1.04	1.16
1:A:127:ARG:CD	1:B:226:GLY:O[5_454]	1.04	1.16
1:A:145:GLN:C	1:B:273:ASP:CB[8_664]	1.04	1.16
1:A:155:PRO:CA	1:B:198:ASP:CG[5_454]	1.04	1.16
1:A:156:PHE:C	1:B:237:ASP:C[5_454]	1.04	1.16
1:A:181:LYS:N	1:B:462:THR:CA[5_454]	1.04	1.16
1:A:214:TYR:CB	1:A:449:ARG:CZ[6_574]	1.04	1.16
1:A:217:GLU:CG	1:A:218:ASN:CA[6_574]	1.04	1.16
1:A:269:PHE:N	1:A:308:PRO:CA[8_664]	1.04	1.16
1:A:394:CYS:O	1:A:441:LEU:N[4_465]	1.04	1.16
1:A:408:GLU:OE1	1:B:230:ASN:CG[5_454]	1.04	1.16
1:A:428:GLY:C	1:A:431:LYS:N[4_465]	1.04	1.16
1:B:105:VAL:CG1	1:B:403:LEU:O[3_675]	1.04	1.16
1:B:167:GLU:CB	1:B:277:LYS:O[4_365]	1.04	1.16
1:B:210:GLN:CB	1:B:274:CYS:CB[4_365]	1.04	1.16
1:B:219:ALA:C	1:B:260:PHE:C[4_365]	1.04	1.16
1:B:335:LEU:CA	1:B:369:LYS:CA[3_675]	1.04	1.16
1:B:336:HIS:CG	1:B:372:VAL:CG2[3_675]	1.04	1.16
1:A:104:ILE:O	1:B:248:TYR:OH[8_664]	1.05	1.15
1:A:117:ILE:O	1:B:221:ASP:C[5_454]	1.05	1.15
1:A:120:ILE:C	1:B:222:ILE:CG1[5_454]	1.05	1.15
1:A:129:HIS:N	1:B:460:PHE:CZ[5_454]	1.05	1.15
1:A:143:MET:C	1:B:278:ILE:CD1[8_664]	1.05	1.15
1:A:183:LEU:CA	6:A:861:HOH:O[8_664]	1.05	1.15
1:A:190:PRO:CG	1:B:241:MET:CB[5_454]	1.05	1.15
1:A:212:TYR:OH	1:A:457:VAL:N[6_574]	1.05	1.15
1:A:218:ASN:OD1	6:A:882:HOH:O[6_574]	1.05	1.15
1:A:230:ASN:ND2	1:B:299:ASP:OD2[6_574]	1.05	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:240:TYR:N	1:A:455:GLU:OE2[6_574]	1.05	1.15
1:A:253:LYS:CG	1:A:301:THR:O[5_454]	1.05	1.15
1:A:267:PHE:CE1	1:A:317:PHE:CD2[8_664]	1.05	1.15
1:A:284:GLN:CA	1:A:318:ARG:NE[8_664]	1.05	1.15
1:A:322:ASP:C	1:A:324:ALA:N[8_664]	1.05	1.15
1:A:372:VAL:C	1:A:373:ASN:C[2_575]	1.05	1.15
1:A:397:ASP:O	1:A:438:LEU:C[4_465]	1.05	1.15
1:A:428:GLY:C	1:A:432:LYS:CA[2_575]	1.05	1.15
1:B:103:LEU:CD1	1:B:402:TYR:CE1[3_675]	1.05	1.15
1:B:103:LEU:N	1:B:402:TYR:N[3_675]	1.05	1.15
1:B:106:ARG:NH2	1:B:340:PHE:CA[3_675]	1.05	1.15
1:B:137:PHE:CA	1:B:373:ASN:O[3_675]	1.05	1.15
1:B:141:ARG:CD	1:B:439:GLN:N[3_675]	1.05	1.15
1:B:197:ASP:CB	1:B:271:ASP:C[4_365]	1.05	1.15
1:B:221:ASP:CB	1:B:263:VAL:N[4_365]	1.05	1.15
1:B:311:ILE:O	1:B:359:ILE:CG1[3_675]	1.05	1.15
1:B:311:ILE:CB	1:B:343:LEU:CD2[3_675]	1.05	1.15
1:B:336:HIS:C	1:B:372:VAL:CA[3_675]	1.05	1.15
1:B:338:THR:CA	1:B:375:HIS:C[3_675]	1.05	1.15
1:A:98:ILE:C	1:A:446:GLN:O[4_465]	1.06	1.14
1:A:99:ASP:OD2	1:A:448:ARG:O[4_465]	1.06	1.14
1:A:117:ILE:CD1	1:B:262:GLN:NE2[8_664]	1.06	1.14
1:A:139:SER:CB	1:A:276:GLY:C[8_664]	1.06	1.14
1:A:151:GLU:O	5:B:817:TRP:O[5_454]	1.06	1.14
1:A:239:ASP:CG	1:A:455:GLU:C[6_574]	1.06	1.14
1:A:240:TYR:CD2	1:A:295:GLN:NE2[5_454]	1.06	1.14
1:A:247:PHE:CE1	1:A:294:PRO:CB[5_454]	1.06	1.14
1:A:249:LYS:N	1:A:290:SER:CB[5_454]	1.06	1.14
1:A:266:ILE:CG2	1:A:317:PHE:CZ[8_664]	1.06	1.14
1:A:330:PRO:C	4:B:812:GOL:C2[5_454]	1.06	1.14
1:A:388:ARG:CD	1:A:413:LEU:O[4_465]	1.06	1.14
1:A:396:VAL:N	1:A:441:LEU:CG[4_465]	1.06	1.14
1:A:420:TYR:CD2	1:A:437:VAL:CB[4_465]	1.06	1.14
1:A:441:LEU:N	6:A:865:HOH:O[2_575]	1.06	1.14
1:B:103:LEU:CG	1:B:402:TYR:CD1[3_675]	1.06	1.14
1:B:111:LYS:CB	1:B:430:LEU:O[3_675]	1.06	1.14
1:B:111:LYS:CG	1:B:430:LEU:C[3_675]	1.06	1.14
1:B:307:ILE:CA	1:B:366:LYS:C[3_675]	1.06	1.14
1:B:336:HIS:O	1:B:373:ASN:N[3_675]	1.06	1.14
1:A:98:ILE:CA	1:A:206:LEU:CD1[8_664]	1.07	1.13
1:A:108:GLY:N	1:A:283:ILE:CD1[8_664]	1.07	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:113:ASP:CA	1:B:258:VAL:CG2[8_664]	1.07	1.13
1:A:116:LEU:C	1:B:263:VAL:N[8_664]	1.07	1.13
1:A:117:ILE:CA	1:B:221:ASP:N[5_454]	1.07	1.13
1:A:126:GLN:O	1:B:227:PHE:CD1[5_454]	1.07	1.13
1:A:141:ARG:CD	1:A:472:HIS:C[3_675]	1.07	1.13
1:A:147:LEU:O	1:B:163:GLY:C[5_454]	1.07	1.13
1:A:167:GLU:CD	1:A:169:MET:SD[6_574]	1.07	1.13
1:A:181:LYS:C	1:B:462:THR:O[5_454]	1.07	1.13
1:A:213:SER:N	1:A:220:LYS:CA[6_574]	1.07	1.13
1:A:262:GLN:N	1:A:305:CYS:O[8_664]	1.07	1.13
1:A:277:LYS:CD	1:A:336:HIS:O[8_664]	1.07	1.13
1:A:306:LEU:O	1:B:239:ASP:OD2[5_454]	1.07	1.13
1:A:316:TYR:O	1:A:316:TYR:O[8_664]	1.07	1.13
1:A:344:GLN:O	1:A:360:PHE:N[4_465]	1.07	1.13
1:A:368:ILE:CG1	1:A:398:VAL:CB[3_665]	1.07	1.13
1:A:458:LYS:CD	1:A:458:LYS:CD[5_454]	1.07	1.13
1:B:110:SER:CA	1:B:433:ALA:C[3_675]	1.07	1.13
1:B:210:GLN:O	1:B:274:CYS:C[4_365]	1.07	1.13
1:B:220:LYS:CB	1:B:259:THR:C[4_365]	1.07	1.13
1:B:307:ILE:CD1	1:B:364:THR:CB[3_675]	1.07	1.13
1:B:308:PRO:CA	1:B:370:THR:OG1[3_675]	1.07	1.13
1:B:312:ASP:CG	1:B:358:SER:N[3_675]	1.07	1.13
1:B:316:TYR:N	1:B:361:LEU:N[3_675]	1.07	1.13
1:B:322:ASP:CA	1:B:443:ALA:O[3_675]	1.07	1.13
1:B:335:LEU:C	1:B:369:LYS:O[3_675]	1.07	1.13
1:B:336:HIS:CB	1:B:372:VAL:CG2[3_675]	1.07	1.13
1:B:337:SER:CB	1:B:375:HIS:N[3_675]	1.07	1.13
1:A:105:VAL:CB	1:B:248:TYR:CD2[8_664]	1.08	1.12
1:A:111:LYS:N	1:B:255:GLN:CD[8_664]	1.08	1.12
1:A:116:LEU:N	1:B:221:ASP:CG[5_454]	1.08	1.12
1:A:119:ARG:CB	1:B:169:MET:SD[5_454]	1.08	1.12
1:A:122:ARG:NH2	1:B:266:ILE:C[8_664]	1.08	1.12
1:A:143:MET:CE	1:B:215:ALA:O[5_454]	1.08	1.12
1:A:159:TYR:CB	1:A:265:GLY:CA[8_664]	1.08	1.12
1:A:181:LYS:CA	1:B:462:THR:O[5_454]	1.08	1.12
1:A:191:LEU:CD1	1:B:243:MET:CE[5_454]	1.08	1.12
1:A:197:ASP:CB	6:A:840:HOH:O[6_574]	1.08	1.12
1:A:205:ASP:CA	1:A:443:ALA:C[6_574]	1.08	1.12
1:A:228:ASP:CB	1:B:295:GLN:NE2[5_454]	1.08	1.12
1:A:230:ASN:CA	1:B:245:SER:C[5_454]	1.08	1.12
1:A:261:ASN:CA	1:A:306:LEU:N[8_664]	1.08	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:284:GLN:CB	1:A:318:ARG:NH1[8_664]	1.08	1.12
1:A:326:ARG:NH1	4:B:812:GOL:C2[3_675]	1.08	1.12
1:A:345:GLY:C	1:A:360:PHE:O[4_465]	1.08	1.12
1:A:354:ASP:OD1	1:A:357:SER:OG[8_664]	1.08	1.12
1:A:359:ILE:CG1	1:A:377:PHE:CA[3_665]	1.08	1.12
1:A:382:ASP:OD2	1:A:405:PHE:CZ[4_465]	1.08	1.12
1:A:395:ASP:O	1:A:441:LEU:O[4_465]	1.08	1.12
1:A:397:ASP:O	1:A:439:GLN:N[4_465]	1.08	1.12
1:B:100:TYR:CD1	1:B:398:VAL:CB[3_675]	1.08	1.12
1:B:113:ASP:CB	1:B:429:GLU:CB[3_675]	1.08	1.12
1:B:138:PHE:CB	1:B:431:LYS:CE[3_675]	1.08	1.12
1:B:140:HIS:CA	1:B:435:ILE:CG1[3_675]	1.08	1.12
1:B:167:GLU:CA	1:B:277:LYS:O[4_365]	1.08	1.12
1:B:266:ILE:CG2	1:B:361:LEU:CD1[3_675]	1.08	1.12
1:A:88:TRP:C	1:A:164:PRO:N[8_664]	1.09	1.11
1:A:94:SER:OG	1:A:445:HIS:CD2[4_465]	1.09	1.11
1:A:101:ASP:OD2	1:B:253:LYS:CA[8_664]	1.09	1.11
1:A:138:PHE:N	1:A:274:CYS:SG[8_664]	1.09	1.11
1:A:179:PHE:CZ	1:B:457:VAL:C[5_454]	1.09	1.11
1:A:210:GLN:CA	1:A:224:ALA:CB[6_574]	1.09	1.11
1:A:231:LYS:CB	1:B:244:SER:CB[5_454]	1.09	1.11
1:A:240:TYR:CG	1:A:295:GLN:OE1[5_454]	1.09	1.11
1:A:244:SER:CB	1:A:293:PHE:CD1[5_454]	1.09	1.11
1:A:257:HIS:C	1:B:207:THR:CG2[3_675]	1.09	1.11
1:A:329:TYR:CE2	1:A:329:TYR:OH[5_454]	1.09	1.11
1:A:345:GLY:N	1:A:363:ASP:OD2[4_465]	1.09	1.11
1:A:413:LEU:CA	1:A:423:GLY:O[3_665]	1.09	1.11
1:A:416:ILE:CG2	1:A:426:LEU:CG[3_665]	1.09	1.11
1:A:459:GLU:CB	1:A:459:GLU:CB[2_475]	1.09	1.11
1:B:464:ARG:NE	6:A:870:HOH:O[5_454]	1.09	1.11
1:B:94:SER:OG	1:B:96:LYS:N[3_675]	1.09	1.11
1:B:110:SER:C	1:B:433:ALA:C[3_675]	1.09	1.11
1:B:166:SER:O	1:B:269:PHE:CE1[4_365]	1.09	1.11
1:B:171:VAL:CB	1:B:318:ARG:NH2[4_365]	1.09	1.11
1:B:197:ASP:C	1:B:272:SER:CB[4_365]	1.09	1.11
1:B:219:ALA:CA	1:B:260:PHE:C[4_365]	1.09	1.11
1:B:299:ASP:C	1:B:299:ASP:C[2_475]	1.09	1.11
1:B:317:PHE:C	1:B:442:ILE:CG2[3_675]	1.09	1.11
1:B:328:GLY:N	1:B:469:ASP:CB[2_475]	1.09	1.11
1:A:91:GLN:C	1:A:449:ARG:NE[4_465]	1.10	1.10
1:A:117:ILE:N	1:B:221:ASP:N[5_454]	1.10	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:140:HIS:O	1:A:279:SER:CB[8_664]	1.10	1.10
1:A:146:VAL:C	1:B:270:THR:C[8_664]	1.10	1.10
1:A:153:LYS:O	1:B:280:PHE:CE1[5_454]	1.10	1.10
1:A:183:LEU:CD1	1:B:461:MET:CB[5_454]	1.10	1.10
1:A:203:TRP:CE3	1:A:311:ILE:CG1[8_664]	1.10	1.10
1:A:212:TYR:O	1:A:220:LYS:CG[6_574]	1.10	1.10
1:A:216:VAL:CG2	1:A:457:VAL:CG1[6_574]	1.10	1.10
1:A:247:PHE:C	1:A:290:SER:O[5_454]	1.10	1.10
1:A:247:PHE:CD2	1:A:293:PHE:O[5_454]	1.10	1.10
1:A:273:ASP:CA	1:B:457:VAL:CG2[3_675]	1.10	1.10
1:A:331:LYS:O	1:B:208:LEU:C[5_454]	1.10	1.10
1:A:375:HIS:CD2	1:A:375:HIS:NE2[4_465]	1.10	1.10
1:A:381:ARG:CB	1:A:404:THR:C[4_465]	1.10	1.10
1:A:385:GLU:CA	6:A:866:HOH:O[4_465]	1.10	1.10
1:B:94:SER:CA	1:B:94:SER:C[3_675]	1.10	1.10
1:B:105:VAL:O	1:B:406:PHE:N[3_675]	1.10	1.10
1:B:169:MET:N	1:B:267:PHE:CD2[4_365]	1.10	1.10
1:B:219:ALA:N	1:B:260:PHE:O[4_365]	1.10	1.10
1:B:221:ASP:CB	1:B:262:GLN:C[4_365]	1.10	1.10
1:B:329:TYR:CD2	1:B:471:GLN:CB[2_475]	1.10	1.10
1:A:92:THR:N	1:A:449:ARG:NE[4_465]	1.11	1.09
1:A:92:THR:O	1:A:167:GLU:N[8_664]	1.11	1.09
1:A:106:ARG:CG	1:A:237:ASP:OD1[8_664]	1.11	1.09
1:A:108:GLY:N	1:A:298:ARG:CA[3_675]	1.11	1.09
1:A:127:ARG:N	1:B:227:PHE:CG[5_454]	1.11	1.09
1:A:129:HIS:CB	1:B:460:PHE:CD2[5_454]	1.11	1.09
1:A:141:ARG:CD	1:A:472:HIS:O[3_675]	1.11	1.09
1:A:143:MET:CE	1:B:260:PHE:CD2[8_664]	1.11	1.09
1:A:152:ASN:C	1:B:199:GLU:CD[5_454]	1.11	1.09
1:A:171:VAL:CG2	1:A:377:PHE:CE2[3_665]	1.11	1.09
1:A:185:ASP:CA	1:B:233:PHE:CD2[5_454]	1.11	1.09
1:A:202:LEU:O	6:B:916:HOH:O[3_675]	1.11	1.09
1:A:214:TYR:CG	1:A:449:ARG:NE[6_574]	1.11	1.09
1:A:240:TYR:CA	1:A:455:GLU:OE1[6_574]	1.11	1.09
1:A:258:VAL:O	1:B:209:ASP:O[3_675]	1.11	1.09
1:A:260:PHE:O	1:A:306:LEU:CA[8_664]	1.11	1.09
1:A:260:PHE:O	1:B:212:TYR:CE1[3_675]	1.11	1.09
1:A:260:PHE:CD2	1:A:306:LEU:CD2[8_664]	1.11	1.09
1:A:283:ILE:CG1	1:A:298:ARG:CB[5_454]	1.11	1.09
1:A:331:LYS:C	1:B:209:ASP:N[5_454]	1.11	1.09
1:A:372:VAL:O	1:A:373:ASN:O[3_665]	1.11	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:392:GLY:N	1:A:407:LEU:N[4_465]	1.11	1.09
1:A:429:GLU:N	1:A:430:LEU:CA[4_465]	1.11	1.09
1:A:453:THR:CB	1:A:465:LYS:N[2_475]	1.11	1.09
1:A:458:LYS:NZ	1:A:462:THR:CA[6_574]	1.11	1.09
1:B:207:THR:CB	6:A:835:HOH:O[5_454]	1.11	1.09
1:B:94:SER:CB	1:B:96:LYS:N[3_675]	1.11	1.09
1:B:98:ILE:CG2	1:B:345:GLY:O[3_675]	1.11	1.09
1:B:162:ARG:CZ	1:B:268:GLY:C[4_365]	1.11	1.09
1:B:222:ILE:N	1:B:261:ASN:C[4_365]	1.11	1.09
1:B:255:GLN:N	6:B:893:HOH:O[3_675]	1.11	1.09
1:B:328:GLY:O	1:B:470:PHE:N[2_475]	1.11	1.09
1:A:94:SER:C	1:A:214:TYR:OH[8_664]	1.12	1.08
1:A:99:ASP:OD2	1:A:208:LEU:C[8_664]	1.12	1.08
1:A:110:SER:CA	1:B:255:GLN:NE2[8_664]	1.12	1.08
1:A:113:ASP:O	1:B:449:ARG:CD[5_454]	1.12	1.08
1:A:120:ILE:CG1	1:B:219:ALA:CA[5_454]	1.12	1.08
1:A:126:GLN:CG	1:B:191:LEU:CG[5_454]	1.12	1.08
1:A:156:PHE:CZ	1:B:236:SER:CA[5_454]	1.12	1.08
1:A:179:PHE:CG	1:A:270:THR:CG2[8_664]	1.12	1.08
1:A:231:LYS:CA	1:B:244:SER:CA[5_454]	1.12	1.08
1:A:278:ILE:O	1:A:473:HIS:CB[5_454]	1.12	1.08
1:A:359:ILE:CD1	1:A:377:PHE:C[3_665]	1.12	1.08
1:A:388:ARG:NH2	1:A:416:ILE:C[4_465]	1.12	1.08
1:B:94:SER:C	1:B:95:ALA:N[3_675]	1.12	1.08
1:B:257:HIS:C	1:B:449:ARG:O[3_675]	1.12	1.08
1:B:307:ILE:CG1	1:B:364:THR:OG1[3_675]	1.12	1.08
1:B:339:PHE:CD2	1:B:344:GLN:N[3_675]	1.12	1.08
1:A:122:ARG:N	1:B:177:PHE:CG[5_454]	1.13	1.07
1:A:147:LEU:C	1:B:270:THR:N[8_664]	1.13	1.07
1:A:183:LEU:CD2	1:A:271:ASP:N[8_664]	1.13	1.07
1:A:197:ASP:O	1:A:450:LYS:CA[6_574]	1.13	1.07
1:A:213:SER:CA	1:A:220:LYS:N[6_574]	1.13	1.07
1:A:241:MET:CG	1:A:296:ILE:C[5_454]	1.13	1.07
1:A:244:SER:OG	1:A:293:PHE:CG[5_454]	1.13	1.07
1:A:247:PHE:CB	1:A:293:PHE:C[5_454]	1.13	1.07
1:A:249:LYS:CA	1:A:290:SER:CB[5_454]	1.13	1.07
1:A:258:VAL:CB	1:B:209:ASP:CB[3_675]	1.13	1.07
1:A:259:THR:CB	1:B:208:LEU:O[3_675]	1.13	1.07
1:A:277:LYS:CG	1:A:336:HIS:O[8_664]	1.13	1.07
1:A:319:MET:C	1:A:320:THR:N[8_664]	1.13	1.07
1:A:373:ASN:OD1	1:A:431:LYS:CG[2_575]	1.13	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:374:LYS:C	1:A:374:LYS:CB[3_665]	1.13	1.07
1:A:374:LYS:CB	1:A:375:HIS:N[4_465]	1.13	1.07
1:A:469:ASP:OD1	1:B:252:VAL:C[5_454]	1.13	1.07
1:B:293:PHE:CA	6:A:863:HOH:O[5_454]	1.13	1.07
1:B:106:ARG:CB	1:B:405:PHE:CG[3_675]	1.13	1.07
1:B:138:PHE:C	1:B:431:LYS:CG[3_675]	1.13	1.07
1:B:140:HIS:C	1:B:435:ILE:CB[3_675]	1.13	1.07
1:B:141:ARG:O	1:B:439:GLN:CD[3_675]	1.13	1.07
1:B:169:MET:CA	1:B:267:PHE:CD2[4_365]	1.13	1.07
1:B:220:LYS:N	1:B:260:PHE:N[4_365]	1.13	1.07
1:B:316:TYR:CE1	1:B:360:PHE:CG[3_675]	1.13	1.07
1:A:100:TYR:CG	1:A:201:TYR:C[8_664]	1.14	1.06
1:A:119:ARG:CB	1:B:263:VAL:C[8_664]	1.14	1.06
1:A:137:PHE:N	1:B:453:THR:C[5_454]	1.14	1.06
1:A:137:PHE:CD2	1:A:273:ASP:CG[8_664]	1.14	1.06
1:A:150:TYR:CB	1:B:196:THR:N[5_454]	1.14	1.06
1:A:184:GLN:N	1:B:233:PHE:CE1[5_454]	1.14	1.06
1:A:187:PHE:C	1:B:235:PHE:CZ[5_454]	1.14	1.06
1:A:210:GLN:CD	1:A:445:HIS:CD2[6_574]	1.14	1.06
1:A:231:LYS:CG	1:B:244:SER:OG[5_454]	1.14	1.06
1:A:233:PHE:CD2	1:A:243:MET:O[5_454]	1.14	1.06
1:A:236:SER:CB	1:A:454:ASP:N[6_574]	1.14	1.06
1:A:238:LEU:C	1:A:465:LYS:N[5_454]	1.14	1.06
1:A:266:ILE:CG2	1:A:475:HIS:C[5_454]	1.14	1.06
1:A:319:MET:SD	1:A:474:HIS:CD2[5_454]	1.14	1.06
1:A:334:LEU:CD1	1:A:473:HIS:C[3_675]	1.14	1.06
1:A:341:PRO:CA	1:A:364:THR:CA[4_465]	1.14	1.06
1:A:344:GLN:O	1:A:359:ILE:C[4_465]	1.14	1.06
1:A:346:ALA:C	1:A:361:LEU:C[4_465]	1.14	1.06
1:A:370:THR:CG2	1:A:375:HIS:O[2_575]	1.14	1.06
1:A:396:VAL:CG2	1:A:441:LEU:CD2[4_465]	1.14	1.06
1:A:469:ASP:CG	1:B:252:VAL:N[5_454]	1.14	1.06
1:B:108:GLY:C	1:B:437:VAL:CG1[3_675]	1.14	1.06
1:B:114:LYS:N	1:B:429:GLU:CG[3_675]	1.14	1.06
1:B:137:PHE:CE2	1:B:370:THR:O[3_675]	1.14	1.06
1:B:140:HIS:CE1	1:B:432:LYS:O[3_675]	1.14	1.06
1:B:169:MET:CB	1:B:267:PHE:CG[4_365]	1.14	1.06
1:B:302:ASP:OD2	1:B:303:ILE:CA[2_475]	1.14	1.06
1:B:308:PRO:CA	1:B:370:THR:CB[3_675]	1.14	1.06
1:B:332:PRO:C	1:B:365:ALA:CB[3_675]	1.14	1.06
1:A:100:TYR:CZ	1:A:204:LYS:N[8_664]	1.15	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:107:PHE:CG	1:A:280:PHE:CE1[8_664]	1.15	1.05
1:A:127:ARG:CG	1:B:227:PHE:N[5_454]	1.15	1.05
1:A:137:PHE:CZ	1:B:458:LYS:CB[5_454]	1.15	1.05
1:A:143:MET:CA	1:B:278:ILE:CG1[8_664]	1.15	1.05
1:A:143:MET:C	1:B:214:TYR:CA[5_454]	1.15	1.05
1:A:186:VAL:O	1:B:193:ILE:N[5_454]	1.15	1.05
1:A:231:LYS:CA	1:B:244:SER:CB[5_454]	1.15	1.05
1:A:236:SER:N	1:A:454:ASP:CB[6_574]	1.15	1.05
1:A:247:PHE:CG	1:A:294:PRO:N[5_454]	1.15	1.05
1:A:247:PHE:O	1:A:290:SER:O[5_454]	1.15	1.05
1:A:264:LYS:N	1:A:306:LEU:C[8_664]	1.15	1.05
1:A:333:ALA:O	1:B:212:TYR:CD2[5_454]	1.15	1.05
1:A:341:PRO:CA	1:A:364:THR:N[4_465]	1.15	1.05
1:A:371:LYS:O	1:A:374:LYS:N[2_575]	1.15	1.05
1:A:416:ILE:CD1	1:A:436:GLU:OE2[4_465]	1.15	1.05
1:A:430:LEU:CB	1:A:433:ALA:C[4_465]	1.15	1.05
1:A:448:ARG:NH1	4:A:813:GOL:C3[6_574]	1.15	1.05
1:B:107:PHE:N	1:B:406:PHE:CD2[3_675]	1.15	1.05
1:A:103:LEU:N	1:A:198:ASP:CA[8_664]	1.16	1.04
1:A:103:LEU:CG	1:A:199:GLU:N[8_664]	1.16	1.04
1:A:116:LEU:CD1	1:B:263:VAL:CG2[8_664]	1.16	1.04
1:A:119:ARG:NE	1:B:162:ARG:NH2[5_454]	1.16	1.04
1:A:119:ARG:N	1:B:262:GLN:O[8_664]	1.16	1.04
1:A:119:ARG:C	1:B:264:LYS:C[8_664]	1.16	1.04
1:A:124:THR:CB	1:B:193:ILE:CB[5_454]	1.16	1.04
1:A:130:HIS:CA	1:A:390:PHE:CD2[3_665]	1.16	1.04
1:A:141:ARG:O	1:B:275:ILE:CB[8_664]	1.16	1.04
1:A:143:MET:O	1:B:214:TYR:O[5_454]	1.16	1.04
1:A:150:TYR:CZ	1:B:194:GLN:CB[5_454]	1.16	1.04
1:A:157:TYR:O	1:B:239:ASP:N[5_454]	1.16	1.04
1:A:157:TYR:OH	1:A:249:LYS:CD[5_454]	1.16	1.04
1:A:180:THR:N	1:B:462:THR:OG1[5_454]	1.16	1.04
1:A:187:PHE:CE2	1:B:195:MET:CG[5_454]	1.16	1.04
1:A:190:PRO:CA	1:B:240:TYR:C[5_454]	1.16	1.04
1:A:205:ASP:C	1:A:443:ALA:O[6_574]	1.16	1.04
1:A:230:ASN:C	1:B:246:GLY:N[5_454]	1.16	1.04
1:A:247:PHE:CG	1:A:293:PHE:O[5_454]	1.16	1.04
1:A:247:PHE:CE2	1:A:294:PRO:O[5_454]	1.16	1.04
1:A:263:VAL:CG1	1:A:474:HIS:N[5_454]	1.16	1.04
1:A:263:VAL:O	1:A:307:ILE:CB[8_664]	1.16	1.04
1:A:278:ILE:CA	1:A:473:HIS:NE2[5_454]	1.16	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:332:PRO:CG	1:B:209:ASP:OD1[5_454]	1.16	1.04
1:A:366:LYS:CA	1:A:402:TYR:CE2[3_665]	1.16	1.04
1:A:366:LYS:C	1:A:402:TYR:CE2[3_665]	1.16	1.04
1:A:380:GLY:C	1:A:402:TYR:C[4_465]	1.16	1.04
1:A:392:GLY:C	1:A:406:PHE:C[4_465]	1.16	1.04
1:B:99:ASP:CB	1:B:401:MET:CE[3_675]	1.16	1.04
1:B:102:LYS:C	1:B:401:MET:O[3_675]	1.16	1.04
1:B:197:ASP:CA	1:B:272:SER:CA[4_365]	1.16	1.04
1:B:222:ILE:N	1:B:262:GLN:N[4_365]	1.16	1.04
1:B:321:ARG:NE	1:B:439:GLN:C[3_675]	1.16	1.04
1:A:99:ASP:O	1:A:450:LYS:C[4_465]	1.17	1.03
1:A:103:LEU:C	1:A:198:ASP:CG[8_664]	1.17	1.03
1:A:103:LEU:O	1:A:198:ASP:OD2[8_664]	1.17	1.03
1:A:107:PHE:O	1:A:298:ARG:C[3_675]	1.17	1.03
1:A:111:LYS:N	1:B:255:GLN:CG[8_664]	1.17	1.03
1:A:113:ASP:OD2	6:B:892:HOH:O[5_454]	1.17	1.03
1:A:115:GLU:C	1:B:221:ASP:CG[5_454]	1.17	1.03
1:A:116:LEU:CB	1:B:263:VAL:CG1[8_664]	1.17	1.03
1:A:190:PRO:C	1:B:240:TYR:O[5_454]	1.17	1.03
1:A:201:TYR:CD1	1:A:447:ALA:O[6_574]	1.17	1.03
1:A:207:THR:CA	1:A:448:ARG:CG[6_574]	1.17	1.03
1:A:248:TYR:CB	1:A:297:PHE:CG[5_454]	1.17	1.03
1:A:257:HIS:O	1:A:331:LYS:CG[8_664]	1.17	1.03
1:A:292:SER:CA	1:A:292:SER:CA[5_454]	1.17	1.03
1:A:344:GLN:CG	1:A:371:LYS:NZ[4_465]	1.17	1.03
1:A:397:ASP:CB	1:A:438:LEU:N[4_465]	1.17	1.03
1:A:409:ASP:C	1:A:422:SER:O[3_665]	1.17	1.03
1:A:412:LYS:CD	1:A:419:ASP:O[3_665]	1.17	1.03
1:A:429:GLU:C	1:A:432:LYS:CB[2_575]	1.17	1.03
1:A:458:LYS:CG	1:A:458:LYS:CE[5_454]	1.17	1.03
1:B:103:LEU:CB	1:B:402:TYR:CD1[3_675]	1.17	1.03
1:B:169:MET:O	1:B:267:PHE:CE2[4_365]	1.17	1.03
1:B:211:ALA:CB	1:B:272:SER:O[4_365]	1.17	1.03
1:B:215:ALA:O	1:B:260:PHE:CE1[4_365]	1.17	1.03
1:B:300:ARG:CA	1:B:300:ARG:C[2_475]	1.17	1.03
1:B:318:ARG:CB	1:B:442:ILE:CG1[3_675]	1.17	1.03
1:A:105:VAL:CA	1:B:248:TYR:CZ[8_664]	1.18	1.02
1:A:117:ILE:CA	1:B:262:GLN:CB[8_664]	1.18	1.02
1:A:119:ARG:NE	1:B:162:ARG:CZ[5_454]	1.18	1.02
1:A:127:ARG:CA	1:B:227:PHE:CG[5_454]	1.18	1.02
1:A:127:ARG:CG	1:B:226:GLY:C[5_454]	1.18	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:141:ARG:O	1:B:213:SER:OG[5_454]	1.18	1.02
1:A:142:ASP:CB	1:B:274:CYS:C[8_664]	1.18	1.02
1:A:147:LEU:N	1:B:164:PRO:CG[5_454]	1.18	1.02
1:A:148:ASP:CG	1:B:165:SER:N[5_454]	1.18	1.02
1:A:150:TYR:CE2	1:B:194:GLN:O[5_454]	1.18	1.02
1:A:150:TYR:CD2	1:B:194:GLN:O[5_454]	1.18	1.02
1:A:176:PRO:CB	1:B:458:LYS:CE[5_454]	1.18	1.02
1:A:200:LYS:NZ	1:A:339:PHE:CZ[8_664]	1.18	1.02
1:A:215:ALA:CB	1:A:220:LYS:CD[6_574]	1.18	1.02
1:A:233:PHE:CB	1:A:243:MET:CB[5_454]	1.18	1.02
1:A:241:MET:C	1:A:296:ILE:CB[5_454]	1.18	1.02
1:A:258:VAL:C	1:B:209:ASP:CA[3_675]	1.18	1.02
1:A:263:VAL:CG2	1:B:212:TYR:CE2[3_675]	1.18	1.02
1:A:384:ILE:CG1	1:A:400:PHE:CZ[4_465]	1.18	1.02
1:A:388:ARG:N	1:A:413:LEU:CG[4_465]	1.18	1.02
1:A:397:ASP:CA	1:A:438:LEU:CA[4_465]	1.18	1.02
1:A:400:PHE:O	4:A:814:GOL:C1[3_665]	1.18	1.02
1:B:101:ASP:CA	1:B:400:PHE:N[3_675]	1.18	1.02
1:B:141:ARG:NH1	1:B:438:LEU:CB[3_675]	1.18	1.02
1:B:149:ALA:CB	1:B:154:LYS:NZ[2_475]	1.18	1.02
1:B:164:PRO:CD	1:B:270:THR:CB[4_365]	1.18	1.02
1:B:197:ASP:CB	1:B:271:ASP:O[4_365]	1.18	1.02
1:B:198:ASP:N	1:B:272:SER:OG[4_365]	1.18	1.02
1:B:327:ILE:C	1:B:469:ASP:CG[2_475]	1.18	1.02
1:B:334:LEU:N	1:B:439:GLN:NE2[3_675]	1.18	1.02
1:B:337:SER:N	1:B:371:LYS:C[3_675]	1.18	1.02
1:A:90:VAL:N	1:A:164:PRO:CG[8_664]	1.19	1.01
1:A:97:GLY:C	1:A:206:LEU:CD2[8_664]	1.19	1.01
1:A:112:ILE:CB	1:B:220:LYS:CD[5_454]	1.19	1.01
1:A:127:ARG:N	1:B:227:PHE:CD2[5_454]	1.19	1.01
1:A:147:LEU:O	1:B:270:THR:CG2[8_664]	1.19	1.01
1:A:156:PHE:CZ	1:B:271:ASP:CG[8_664]	1.19	1.01
1:A:181:LYS:CG	1:B:464:ARG:CA[5_454]	1.19	1.01
1:A:201:TYR:N	1:A:450:LYS:CB[6_574]	1.19	1.01
1:A:229:ILE:C	1:B:245:SER:CB[5_454]	1.19	1.01
1:A:264:LYS:CB	1:A:306:LEU:O[8_664]	1.19	1.01
1:A:266:ILE:CB	1:A:475:HIS:CB[5_454]	1.19	1.01
1:A:281:PRO:N	1:A:314:ASP:OD1[8_664]	1.19	1.01
1:A:346:ALA:C	1:A:361:LEU:O[4_465]	1.19	1.01
1:A:348:THR:CA	1:A:362:THR:OG1[4_465]	1.19	1.01
1:A:396:VAL:N	1:A:441:LEU:CB[4_465]	1.19	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:412:LYS:C	1:A:424:ALA:CA[3_665]	1.19	1.01
1:A:426:LEU:CA	1:A:436:GLU:CD[2_575]	1.19	1.01
1:B:105:VAL:CA	1:B:403:LEU:CA[3_675]	1.19	1.01
1:B:111:LYS:O	1:B:433:ALA:N[3_675]	1.19	1.01
1:B:114:LYS:NZ	1:B:388:ARG:NH1[3_675]	1.19	1.01
1:B:302:ASP:CG	1:B:303:ILE:CB[2_475]	1.19	1.01
1:B:312:ASP:CB	1:B:358:SER:CA[3_675]	1.19	1.01
1:A:88:TRP:N	1:A:163:GLY:CA[8_664]	1.20	1.00
1:A:108:GLY:N	1:A:298:ARG:CB[3_675]	1.20	1.00
1:A:108:GLY:CA	1:A:283:ILE:CD1[8_664]	1.20	1.00
1:A:110:SER:N	1:A:471:GLN:CA[3_675]	1.20	1.00
1:A:117:ILE:CA	1:B:221:ASP:CA[5_454]	1.20	1.00
1:A:132:LEU:O	1:B:452:VAL:CA[5_454]	1.20	1.00
1:A:137:PHE:CA	1:B:454:ASP:N[5_454]	1.20	1.00
1:A:145:GLN:CB	1:B:273:ASP:C[8_664]	1.20	1.00
1:A:147:LEU:N	1:B:270:THR:O[8_664]	1.20	1.00
1:A:153:LYS:NZ	1:B:284:GLN:CD[5_454]	1.20	1.00
1:A:156:PHE:CD1	1:A:261:ASN:ND2[8_664]	1.20	1.00
1:A:182:TRP:NE1	1:B:232:THR:O[5_454]	1.20	1.00
1:A:216:VAL:C	1:A:217:GLU:N[6_574]	1.20	1.00
1:A:231:LYS:N	1:B:245:SER:N[5_454]	1.20	1.00
1:A:235:PHE:CZ	6:A:834:HOH:O[5_454]	1.20	1.00
1:A:248:TYR:CA	1:A:297:PHE:CD1[5_454]	1.20	1.00
1:A:249:LYS:O	1:A:290:SER:OG[5_454]	1.20	1.00
1:A:251:VAL:CA	1:A:300:ARG:CA[5_454]	1.20	1.00
1:A:263:VAL:C	1:A:307:ILE:CB[8_664]	1.20	1.00
1:A:269:PHE:CD1	1:A:335:LEU:O[8_664]	1.20	1.00
1:A:336:HIS:O	1:B:454:ASP:CG[5_454]	1.20	1.00
1:A:387:HIS:ND1	1:A:403:LEU:C[4_465]	1.20	1.00
1:A:388:ARG:CD	1:A:413:LEU:C[4_465]	1.20	1.00
1:A:400:PHE:C	4:A:814:GOL:C2[3_665]	1.20	1.00
1:A:409:ASP:O	1:A:422:SER:C[3_665]	1.20	1.00
1:A:429:GLU:C	1:A:429:GLU:O[4_465]	1.20	1.00
1:A:439:GLN:CA	4:A:814:GOL:O1[2_575]	1.20	1.00
1:A:458:LYS:NZ	1:A:462:THR:CB[6_574]	1.20	1.00
1:B:164:PRO:CA	1:B:273:ASP:OD2[4_365]	1.20	1.00
1:B:171:VAL:CG1	1:B:318:ARG:CZ[4_365]	1.20	1.00
1:B:197:ASP:C	1:B:272:SER:OG[4_365]	1.20	1.00
1:B:213:SER:CB	1:B:275:ILE:CA[4_365]	1.20	1.00
1:B:298:ARG:N	1:B:301:THR:CG2[2_475]	1.20	1.00
1:B:316:TYR:N	1:B:360:PHE:O[3_675]	1.20	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:329:TYR:CD1	1:B:470:PHE:C[2_475]	1.20	1.00
1:B:335:LEU:N	1:B:369:LYS:N[3_675]	1.20	1.00
1:A:100:TYR:CA	1:A:201:TYR:CB[8_664]	1.21	0.99
1:A:111:LYS:NZ	1:B:256:LYS:N[8_664]	1.21	0.99
1:A:112:ILE:CG1	1:B:220:LYS:NZ[5_454]	1.21	0.99
1:A:116:LEU:CD2	1:A:275:ILE:CG2[8_664]	1.21	0.99
1:A:117:ILE:N	1:B:221:ASP:CA[5_454]	1.21	0.99
1:A:122:ARG:C	1:B:177:PHE:CZ[5_454]	1.21	0.99
1:A:122:ARG:CD	1:B:174:LEU:CA[5_454]	1.21	0.99
1:A:129:HIS:CB	1:B:460:PHE:CG[5_454]	1.21	0.99
1:A:156:PHE:CB	1:A:261:ASN:OD1[8_664]	1.21	0.99
1:A:179:PHE:CE2	1:B:457:VAL:C[5_454]	1.21	0.99
1:A:216:VAL:CA	1:A:216:VAL:O[6_574]	1.21	0.99
1:A:239:ASP:C	1:A:464:ARG:O[5_454]	1.21	0.99
1:A:248:TYR:CA	1:A:297:PHE:CG[5_454]	1.21	0.99
1:A:253:LYS:N	1:A:301:THR:C[5_454]	1.21	0.99
1:A:255:GLN:NE2	1:A:300:ARG:NH1[5_454]	1.21	0.99
1:A:277:LYS:CG	1:B:454:ASP:OD2[3_675]	1.21	0.99
1:A:281:PRO:CG	1:A:334:LEU:CD2[8_664]	1.21	0.99
1:A:322:ASP:CA	1:A:323:VAL:CG2[8_664]	1.21	0.99
1:A:333:ALA:CB	1:B:213:SER:N[5_454]	1.21	0.99
1:A:334:LEU:O	1:A:473:HIS:CG[3_675]	1.21	0.99
1:A:368:ILE:CB	1:A:398:VAL:CB[3_665]	1.21	0.99
1:A:371:LYS:C	1:A:376:ALA:N[3_665]	1.21	0.99
1:A:372:VAL:CG2	6:A:891:HOH:O[2_575]	1.21	0.99
1:A:413:LEU:N	1:A:423:GLY:C[3_665]	1.21	0.99
1:A:468:PHE:CE2	1:B:247:PHE:CD1[5_454]	1.21	0.99
2:B:801:CL:CL	6:A:902:HOH:O[5_454]	1.21	0.99
1:B:94:SER:CB	1:B:95:ALA:N[2_485]	1.21	0.99
1:B:105:VAL:N	1:B:403:LEU:CA[3_675]	1.21	0.99
1:B:105:VAL:CA	1:B:403:LEU:C[3_675]	1.21	0.99
1:B:111:LYS:CE	1:B:430:LEU:CB[3_675]	1.21	0.99
1:B:137:PHE:CA	1:B:373:ASN:C[3_675]	1.21	0.99
1:B:258:VAL:CG1	1:B:449:ARG:NE[3_675]	1.21	0.99
1:B:327:ILE:CG2	1:B:450:LYS:CE[3_675]	1.21	0.99
1:A:91:GLN:C	1:A:214:TYR:CG[8_664]	1.22	0.98
1:A:107:PHE:O	1:A:283:ILE:CA[8_664]	1.22	0.98
1:A:109:SER:O	1:A:470:PHE:CA[3_675]	1.22	0.98
1:A:137:PHE:C	1:B:453:THR:C[5_454]	1.22	0.98
1:A:140:HIS:CB	1:A:473:HIS:CE1[3_675]	1.22	0.98
1:A:141:ARG:CG	1:A:472:HIS:CA[3_675]	1.22	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:151:GLU:C	5:B:817:TRP:C[5_454]	1.22	0.98
1:A:203:TRP:CG	1:A:337:SER:O[8_664]	1.22	0.98
1:A:212:TYR:CZ	1:A:457:VAL:N[6_574]	1.22	0.98
1:A:239:ASP:CA	1:A:464:ARG:CB[5_454]	1.22	0.98
1:A:255:GLN:CD	1:A:300:ARG:NH1[5_454]	1.22	0.98
1:A:259:THR:C	1:B:212:TYR:CB[3_675]	1.22	0.98
1:A:269:PHE:N	1:A:308:PRO:CB[8_664]	1.22	0.98
1:A:269:PHE:C	1:A:308:PRO:CB[8_664]	1.22	0.98
1:A:278:ILE:CG2	1:A:334:LEU:O[8_664]	1.22	0.98
1:A:340:PHE:CG	6:A:817:HOH:O[4_465]	1.22	0.98
1:A:359:ILE:CG2	1:A:377:PHE:CB[3_665]	1.22	0.98
1:A:365:ALA:O	1:A:402:TYR:CD1[3_665]	1.22	0.98
1:A:372:VAL:CA	1:A:373:ASN:O[2_575]	1.22	0.98
1:A:453:THR:C	6:A:895:HOH:O[2_475]	1.22	0.98
1:A:458:LYS:CE	1:A:462:THR:OG1[6_574]	1.22	0.98
1:B:101:ASP:C	1:B:401:MET:N[3_675]	1.22	0.98
1:B:103:LEU:O	1:B:402:TYR:CB[3_675]	1.22	0.98
1:B:112:ILE:O	1:B:429:GLU:N[3_675]	1.22	0.98
1:B:141:ARG:N	1:B:435:ILE:CG2[3_675]	1.22	0.98
1:B:221:ASP:CA	1:B:262:GLN:CA[4_365]	1.22	0.98
1:B:291:ASN:OD1	1:B:298:ARG:CB[2_475]	1.22	0.98
1:B:311:ILE:N	1:B:343:LEU:CD1[3_675]	1.22	0.98
1:B:312:ASP:C	1:B:359:ILE:N[3_675]	1.22	0.98
1:B:321:ARG:CB	1:B:443:ALA:CB[3_675]	1.22	0.98
1:B:327:ILE:CG2	1:B:450:LYS:NZ[3_675]	1.22	0.98
1:B:328:GLY:N	1:B:469:ASP:CG[2_475]	1.22	0.98
1:A:101:ASP:N	1:A:201:TYR:CD2[8_664]	1.23	0.97
1:A:103:LEU:CA	1:A:198:ASP:N[8_664]	1.23	0.97
1:A:103:LEU:CD1	1:A:200:LYS:N[8_664]	1.23	0.97
1:A:111:LYS:CA	1:B:255:GLN:CG[8_664]	1.23	0.97
1:A:118:ASN:N	1:B:221:ASP:O[5_454]	1.23	0.97
1:A:153:LYS:NZ	1:B:284:GLN:NE2[5_454]	1.23	0.97
1:A:190:PRO:O	1:B:240:TYR:CA[5_454]	1.23	0.97
1:A:190:PRO:CB	1:B:241:MET:C[5_454]	1.23	0.97
1:A:251:VAL:CA	1:A:300:ARG:C[5_454]	1.23	0.97
1:A:267:PHE:CE1	1:A:474:HIS:O[5_454]	1.23	0.97
1:A:275:ILE:CB	1:B:217:GLU:OE1[3_675]	1.23	0.97
1:A:304:GLN:O	1:B:238:LEU:CB[5_454]	1.23	0.97
1:A:319:MET:CE	1:A:474:HIS:CD2[5_454]	1.23	0.97
1:A:330:PRO:O	4:B:812:GOL:C2[5_454]	1.23	0.97
1:A:340:PHE:CD2	6:A:817:HOH:O[4_465]	1.23	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:355:PRO:CB	1:A:355:PRO:CB[6_574]	1.23	0.97
1:A:380:GLY:CA	1:A:402:TYR:O[4_465]	1.23	0.97
1:A:400:PHE:CD2	1:A:440:PRO:CG[4_465]	1.23	0.97
1:A:412:LYS:NZ	1:A:419:ASP:CB[3_665]	1.23	0.97
1:A:435:ILE:CA	6:A:892:HOH:O[2_575]	1.23	0.97
1:B:293:PHE:C	6:A:863:HOH:O[5_454]	1.23	0.97
1:B:109:SER:OG	1:B:434:LEU:CD1[3_675]	1.23	0.97
1:B:143:MET:SD	1:B:369:LYS:NZ[3_675]	1.23	0.97
1:B:166:SER:CB	1:B:203:TRP:CZ2[4_365]	1.23	0.97
1:B:210:GLN:O	1:B:274:CYS:CA[4_365]	1.23	0.97
1:B:215:ALA:O	1:B:260:PHE:CD1[4_365]	1.23	0.97
1:B:328:GLY:C	1:B:469:ASP:CA[2_475]	1.23	0.97
1:A:90:VAL:C	1:A:211:ALA:O[8_664]	1.24	0.96
1:A:97:GLY:C	1:A:206:LEU:CG[8_664]	1.24	0.96
1:A:102:LYS:CA	1:A:238:LEU:CD2[8_664]	1.24	0.96
1:A:102:LYS:CB	1:A:451:GLU:CA[4_465]	1.24	0.96
1:A:104:ILE:C	1:B:248:TYR:OH[8_664]	1.24	0.96
1:A:122:ARG:NE	1:B:265:GLY:O[8_664]	1.24	0.96
1:A:203:TRP:CD1	1:A:337:SER:O[8_664]	1.24	0.96
1:A:228:ASP:OD2	1:B:294:PRO:N[5_454]	1.24	0.96
1:A:231:LYS:CD	1:B:292:SER:O[5_454]	1.24	0.96
1:A:242:GLY:CA	1:A:466:LEU:CD1[5_454]	1.24	0.96
1:A:261:ASN:ND2	1:B:236:SER:OG[3_675]	1.24	0.96
1:A:271:ASP:OD2	1:B:234:ILE:CG2[3_675]	1.24	0.96
1:A:323:VAL:N	1:A:324:ALA:N[8_664]	1.24	0.96
1:A:409:ASP:CG	1:A:422:SER:CB[3_665]	1.24	0.96
1:A:467:SER:O	1:B:247:PHE:C[5_454]	1.24	0.96
5:B:817:TRP:CD2	6:A:841:HOH:O[5_454]	1.24	0.96
1:B:201:TYR:CD2	6:A:853:HOH:O[5_454]	1.24	0.96
1:B:94:SER:CA	1:B:95:ALA:CA[2_485]	1.24	0.96
1:B:106:ARG:CA	1:B:405:PHE:CB[3_675]	1.24	0.96
1:B:140:HIS:C	1:B:435:ILE:CA[3_675]	1.24	0.96
1:B:336:HIS:C	1:B:372:VAL:N[3_675]	1.24	0.96
1:A:103:LEU:N	1:A:450:LYS:O[4_465]	1.25	0.95
1:A:103:LEU:CB	1:A:199:GLU:N[8_664]	1.25	0.95
1:A:109:SER:O	1:A:470:PHE:O[3_675]	1.25	0.95
1:A:110:SER:C	1:B:255:GLN:NE2[8_664]	1.25	0.95
1:A:113:ASP:CA	1:B:258:VAL:CB[8_664]	1.25	0.95
1:A:129:HIS:N	1:B:460:PHE:CE1[5_454]	1.25	0.95
1:A:134:ARG:CZ	1:A:390:PHE:N[3_665]	1.25	0.95
1:A:144:ASN:OD1	1:B:269:PHE:CD2[8_664]	1.25	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:156:PHE:CE1	1:B:236:SER:CB[5_454]	1.25	0.95
1:A:158:LEU:N	1:B:239:ASP:C[5_454]	1.25	0.95
1:A:206:LEU:CB	1:A:445:HIS:O[6_574]	1.25	0.95
1:A:228:ASP:OD1	1:B:294:PRO:CB[5_454]	1.25	0.95
1:A:238:LEU:C	1:A:453:THR:CB[6_574]	1.25	0.95
1:A:242:GLY:CA	1:A:466:LEU:CG[5_454]	1.25	0.95
1:A:248:TYR:CB	1:A:297:PHE:CD2[5_454]	1.25	0.95
1:A:250:ASN:O	1:A:301:THR:CA[5_454]	1.25	0.95
1:A:260:PHE:CA	1:B:212:TYR:C[3_675]	1.25	0.95
1:A:269:PHE:CA	1:A:308:PRO:CA[8_664]	1.25	0.95
1:A:275:ILE:N	1:B:220:LYS:CD[3_675]	1.25	0.95
1:A:278:ILE:CA	1:A:473:HIS:CG[5_454]	1.25	0.95
1:A:279:SER:O	1:A:472:HIS:CA[5_454]	1.25	0.95
1:A:316:TYR:CA	1:A:316:TYR:C[8_664]	1.25	0.95
1:A:321:ARG:C	1:A:323:VAL:CB[8_664]	1.25	0.95
1:A:372:VAL:C	1:A:372:VAL:O[3_665]	1.25	0.95
1:A:428:GLY:O	1:A:431:LYS:N[4_465]	1.25	0.95
1:B:234:ILE:O	6:A:861:HOH:O[4_365]	1.25	0.95
1:B:104:ILE:N	1:B:402:TYR:CB[3_675]	1.25	0.95
1:B:141:ARG:NE	1:B:439:GLN:N[3_675]	1.25	0.95
1:B:164:PRO:C	1:B:273:ASP:CG[4_365]	1.25	0.95
1:B:220:LYS:CA	1:B:259:THR:O[4_365]	1.25	0.95
1:B:300:ARG:CA	1:B:300:ARG:CA[2_475]	1.25	0.95
1:B:307:ILE:CD1	1:B:364:THR:OG1[3_675]	1.25	0.95
1:B:307:ILE:CD1	1:B:364:THR:CA[3_675]	1.25	0.95
1:B:316:TYR:CD1	1:B:360:PHE:CG[3_675]	1.25	0.95
1:B:336:HIS:C	1:B:372:VAL:C[3_675]	1.25	0.95
1:B:349:LYS:NZ	1:B:354:ASP:OD2[3_675]	1.25	0.95
1:A:117:ILE:O	1:B:262:GLN:N[8_664]	1.26	0.94
1:A:120:ILE:CD1	1:B:261:ASN:N[8_664]	1.26	0.94
1:A:120:ILE:C	1:B:222:ILE:CB[5_454]	1.26	0.94
1:A:120:ILE:CB	1:B:261:ASN:CA[8_664]	1.26	0.94
1:A:121:GLU:N	1:B:222:ILE:CB[5_454]	1.26	0.94
1:A:143:MET:C	1:B:214:TYR:O[5_454]	1.26	0.94
1:A:146:VAL:O	1:B:270:THR:C[8_664]	1.26	0.94
1:A:147:LEU:CA	1:B:269:PHE:C[8_664]	1.26	0.94
1:A:153:LYS:N	1:B:199:GLU:OE1[5_454]	1.26	0.94
1:A:156:PHE:CE2	1:B:195:MET:O[5_454]	1.26	0.94
1:A:159:TYR:CG	1:A:265:GLY:O[8_664]	1.26	0.94
1:A:182:TRP:CH2	1:B:234:ILE:CD1[5_454]	1.26	0.94
1:A:206:LEU:CA	1:A:445:HIS:C[6_574]	1.26	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:207:THR:C	1:A:448:ARG:CA[6_574]	1.26	0.94
1:A:248:TYR:N	1:A:297:PHE:CD1[5_454]	1.26	0.94
1:A:259:THR:N	1:B:209:ASP:CA[3_675]	1.26	0.94
1:A:322:ASP:O	1:A:324:ALA:N[8_664]	1.26	0.94
1:A:342:ALA:O	1:A:363:ASP:CB[4_465]	1.26	0.94
1:A:365:ALA:CA	1:A:402:TYR:CD1[3_665]	1.26	0.94
1:A:368:ILE:CG1	1:A:398:VAL:CG1[3_665]	1.26	0.94
1:A:399:SER:OG	1:A:435:ILE:CG1[4_465]	1.26	0.94
1:B:94:SER:CB	1:B:95:ALA:CA[2_485]	1.26	0.94
1:B:111:LYS:N	1:B:434:LEU:N[3_675]	1.26	0.94
1:B:203:TRP:CG	6:B:878:HOH:O[3_675]	1.26	0.94
1:B:211:ALA:O	1:B:273:ASP:O[4_365]	1.26	0.94
1:B:214:TYR:C	1:B:278:ILE:CG1[4_365]	1.26	0.94
1:B:218:ASN:OD1	1:B:269:PHE:CG[4_365]	1.26	0.94
1:B:223:ILE:CG1	6:B:910:HOH:O[4_365]	1.26	0.94
1:B:312:ASP:CB	1:B:357:SER:C[3_675]	1.26	0.94
1:B:316:TYR:CA	1:B:362:THR:N[3_675]	1.26	0.94
1:B:323:VAL:N	1:B:447:ALA:N[3_675]	1.26	0.94
1:A:113:ASP:C	1:B:258:VAL:CB[8_664]	1.27	0.93
1:A:117:ILE:CB	1:B:262:GLN:CB[8_664]	1.27	0.93
1:A:126:GLN:NE2	1:B:191:LEU:CA[5_454]	1.27	0.93
1:A:137:PHE:O	1:A:274:CYS:N[8_664]	1.27	0.93
1:A:141:ARG:CG	1:A:473:HIS:N[3_675]	1.27	0.93
1:A:150:TYR:C	1:B:196:THR:OG1[5_454]	1.27	0.93
1:A:151:GLU:CG	1:B:163:GLY:N[5_454]	1.27	0.93
1:A:179:PHE:CE1	1:B:457:VAL:O[5_454]	1.27	0.93
1:A:184:GLN:O	1:B:233:PHE:CE2[5_454]	1.27	0.93
1:A:185:ASP:N	1:B:233:PHE:CG[5_454]	1.27	0.93
1:A:188:ASN:N	1:B:235:PHE:CD1[5_454]	1.27	0.93
1:A:192:VAL:C	6:B:858:HOH:O[5_454]	1.27	0.93
1:A:207:THR:CB	1:A:448:ARG:CD[6_574]	1.27	0.93
1:A:239:ASP:C	1:A:464:ARG:C[5_454]	1.27	0.93
1:A:255:GLN:CD	1:A:300:ARG:CZ[5_454]	1.27	0.93
1:A:264:LYS:CA	1:A:306:LEU:O[8_664]	1.27	0.93
1:A:266:ILE:N	1:A:475:HIS:CG[5_454]	1.27	0.93
1:A:272:SER:C	1:B:457:VAL:CA[3_675]	1.27	0.93
1:A:278:ILE:CB	1:A:473:HIS:ND1[5_454]	1.27	0.93
1:A:284:GLN:CA	1:A:318:ARG:NH1[8_664]	1.27	0.93
1:A:317:PHE:O	1:A:319:MET:SD[8_664]	1.27	0.93
1:A:332:PRO:CD	1:B:209:ASP:CG[5_454]	1.27	0.93
1:A:335:LEU:CD1	1:B:461:MET:CE[5_454]	1.27	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:342:ALA:CA	1:A:367:GLN:OE1[4_465]	1.27	0.93
1:A:372:VAL:O	1:A:373:ASN:N[4_465]	1.27	0.93
1:A:382:ASP:OD1	6:A:854:HOH:O[2_575]	1.27	0.93
1:A:388:ARG:NH1	1:A:416:ILE:N[4_465]	1.27	0.93
1:A:401:MET:CG	1:A:439:GLN:O[4_465]	1.27	0.93
1:A:407:LEU:CG	1:A:420:TYR:O[3_665]	1.27	0.93
1:A:429:GLU:N	1:A:430:LEU:C[4_465]	1.27	0.93
1:A:431:LYS:N	1:A:432:LYS:N[4_465]	1.27	0.93
1:A:431:LYS:N	1:A:431:LYS:C[4_465]	1.27	0.93
1:A:458:LYS:CG	1:A:462:THR:OG1[2_475]	1.27	0.93
1:B:103:LEU:CD2	1:B:402:TYR:CZ[3_675]	1.27	0.93
1:B:112:ILE:O	1:B:428:GLY:C[3_675]	1.27	0.93
1:B:115:GLU:N	1:B:429:GLU:OE2[3_675]	1.27	0.93
1:B:133:ARG:O	4:B:815:GOL:C1[3_675]	1.27	0.93
1:B:164:PRO:O	1:B:273:ASP:OD2[4_365]	1.27	0.93
1:B:197:ASP:O	1:B:272:SER:CB[4_365]	1.27	0.93
1:B:257:HIS:CA	1:B:450:LYS:C[3_675]	1.27	0.93
1:B:307:ILE:CG2	1:B:367:GLN:CB[3_675]	1.27	0.93
1:B:312:ASP:CA	1:B:358:SER:CA[3_675]	1.27	0.93
1:B:314:ASP:N	1:B:359:ILE:CA[3_675]	1.27	0.93
1:B:326:ARG:NH1	1:B:448:ARG:NH2[3_675]	1.27	0.93
1:B:327:ILE:CA	1:B:469:ASP:OD2[2_475]	1.27	0.93
1:B:349:LYS:CE	1:B:354:ASP:CG[3_675]	1.27	0.93
1:A:88:TRP:CA	1:A:163:GLY:CA[8_664]	1.28	0.92
1:A:89:THR:O	1:A:217:GLU:OE1[4_465]	1.28	0.92
1:A:98:ILE:CD1	1:A:200:LYS:CG[8_664]	1.28	0.92
1:A:112:ILE:CG2	1:B:220:LYS:CD[5_454]	1.28	0.92
1:A:122:ARG:C	1:B:177:PHE:CE2[5_454]	1.28	0.92
1:A:140:HIS:C	1:A:279:SER:N[8_664]	1.28	0.92
1:A:179:PHE:CD2	1:A:270:THR:CG2[8_664]	1.28	0.92
1:A:186:VAL:CB	1:B:233:PHE:C[5_454]	1.28	0.92
1:A:203:TRP:C	1:A:338:THR:CB[8_664]	1.28	0.92
1:A:209:ASP:CB	1:A:223:ILE:O[6_574]	1.28	0.92
1:A:238:LEU:C	1:A:465:LYS:CA[5_454]	1.28	0.92
1:A:239:ASP:O	1:A:455:GLU:CG[6_574]	1.28	0.92
1:A:240:TYR:CZ	1:A:240:TYR:CZ[5_454]	1.28	0.92
1:A:260:PHE:N	1:B:212:TYR:C[3_675]	1.28	0.92
1:A:262:GLN:C	6:A:851:HOH:O[3_675]	1.28	0.92
1:A:275:ILE:N	1:B:220:LYS:NZ[3_675]	1.28	0.92
1:A:313:GLN:C	1:A:316:TYR:CZ[8_664]	1.28	0.92
1:A:321:ARG:C	1:A:323:VAL:CG2[8_664]	1.28	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:335:LEU:CG	1:B:216:VAL:CG1[5_454]	1.28	0.92
1:A:371:LYS:CA	1:A:375:HIS:C[3_665]	1.28	0.92
1:A:371:LYS:CA	1:A:374:LYS:C[2_575]	1.28	0.92
1:A:391:GLY:C	1:A:407:LEU:C[4_465]	1.28	0.92
1:A:416:ILE:CD1	1:A:425:MET:CA[3_665]	1.28	0.92
1:A:425:MET:C	1:A:436:GLU:OE2[2_575]	1.28	0.92
1:B:210:GLN:N	6:A:837:HOH:O[5_454]	1.28	0.92
1:B:116:LEU:CD2	1:B:432:LYS:CG[3_675]	1.28	0.92
1:B:174:LEU:CG	6:B:911:HOH:O[4_365]	1.28	0.92
1:B:221:ASP:CA	1:B:262:GLN:C[4_365]	1.28	0.92
1:B:259:THR:CG2	1:B:452:VAL:CG2[3_675]	1.28	0.92
1:B:300:ARG:CD	1:B:301:THR:CA[2_475]	1.28	0.92
1:B:316:TYR:CE1	1:B:360:PHE:CD2[3_675]	1.28	0.92
1:A:105:VAL:CG2	6:A:836:HOH:O[3_675]	1.29	0.91
1:A:115:GLU:CB	6:B:832:HOH:O[5_454]	1.29	0.91
1:A:117:ILE:O	1:B:262:GLN:CA[8_664]	1.29	0.91
1:A:137:PHE:CA	1:B:453:THR:C[5_454]	1.29	0.91
1:A:140:HIS:ND1	1:B:217:GLU:OE2[5_454]	1.29	0.91
1:A:148:ASP:OD2	1:B:165:SER:OG[5_454]	1.29	0.91
1:A:148:ASP:N	1:B:273:ASP:OD2[8_664]	1.29	0.91
1:A:159:TYR:CG	1:A:265:GLY:C[8_664]	1.29	0.91
1:A:184:GLN:CG	1:B:240:TYR:CE1[5_454]	1.29	0.91
1:A:185:ASP:N	1:B:233:PHE:CE2[5_454]	1.29	0.91
1:A:211:ALA:N	1:A:449:ARG:CA[6_574]	1.29	0.91
1:A:212:TYR:CZ	1:A:457:VAL:CA[6_574]	1.29	0.91
1:A:228:ASP:N	1:B:295:GLN:OE1[5_454]	1.29	0.91
1:A:238:LEU:CD1	1:A:452:VAL:N[6_574]	1.29	0.91
1:A:239:ASP:CB	1:A:455:GLU:N[6_574]	1.29	0.91
1:A:241:MET:CA	1:A:296:ILE:CA[5_454]	1.29	0.91
1:A:250:ASN:CB	1:A:291:ASN:CB[5_454]	1.29	0.91
1:A:252:VAL:C	1:A:302:ASP:N[5_454]	1.29	0.91
1:A:258:VAL:O	1:B:210:GLN:N[3_675]	1.29	0.91
1:A:263:VAL:C	1:A:307:ILE:N[8_664]	1.29	0.91
1:A:283:ILE:CD1	1:A:298:ARG:CA[5_454]	1.29	0.91
1:A:316:TYR:C	1:A:316:TYR:O[8_664]	1.29	0.91
1:A:317:PHE:C	1:A:474:HIS:NE2[3_675]	1.29	0.91
1:A:317:PHE:CB	1:A:474:HIS:CD2[3_675]	1.29	0.91
1:A:327:ILE:O	1:A:327:ILE:O[5_454]	1.29	0.91
1:A:351:SER:CB	1:A:351:SER:OG[8_664]	1.29	0.91
1:A:369:LYS:O	1:A:431:LYS:NZ[2_575]	1.29	0.91
1:A:409:ASP:CB	1:A:422:SER:CB[3_665]	1.29	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:412:LYS:CA	1:A:424:ALA:CA[3_665]	1.29	0.91
1:A:428:GLY:CA	1:A:431:LYS:N[4_465]	1.29	0.91
1:A:468:PHE:CE2	1:B:247:PHE:CD2[5_454]	1.29	0.91
1:B:102:LYS:O	1:B:401:MET:C[3_675]	1.29	0.91
1:B:102:LYS:N	1:B:401:MET:CA[3_675]	1.29	0.91
1:B:103:LEU:N	1:B:401:MET:C[3_675]	1.29	0.91
1:B:114:LYS:N	1:B:429:GLU:CD[3_675]	1.29	0.91
1:B:197:ASP:CB	1:B:272:SER:N[4_365]	1.29	0.91
1:B:218:ASN:O	1:B:260:PHE:O[4_365]	1.29	0.91
1:B:257:HIS:CB	1:B:450:LYS:CB[3_675]	1.29	0.91
1:B:258:VAL:CB	1:B:449:ARG:CG[3_675]	1.29	0.91
1:B:312:ASP:CA	1:B:358:SER:C[3_675]	1.29	0.91
1:A:94:SER:N	1:A:221:ASP:OD2[4_465]	1.30	0.90
1:A:118:ASN:N	1:B:221:ASP:C[5_454]	1.30	0.90
1:A:131:PHE:O	1:B:456:ILE:CB[5_454]	1.30	0.90
1:A:134:ARG:CD	1:A:386:GLU:O[3_665]	1.30	0.90
1:A:142:ASP:C	1:B:213:SER:C[5_454]	1.30	0.90
1:A:147:LEU:O	1:B:164:PRO:N[5_454]	1.30	0.90
1:A:148:ASP:CG	1:B:165:SER:CB[5_454]	1.30	0.90
1:A:148:ASP:CB	1:B:165:SER:N[5_454]	1.30	0.90
1:A:156:PHE:O	1:B:237:ASP:CA[5_454]	1.30	0.90
1:A:158:LEU:CA	1:B:239:ASP:CA[5_454]	1.30	0.90
1:A:179:PHE:O	1:B:462:THR:N[5_454]	1.30	0.90
1:A:215:ALA:CA	1:A:220:LYS:CD[6_574]	1.30	0.90
1:A:238:LEU:C	1:A:453:THR:OG1[6_574]	1.30	0.90
1:A:240:TYR:N	1:A:464:ARG:N[5_454]	1.30	0.90
1:A:264:LYS:N	1:A:307:ILE:CA[8_664]	1.30	0.90
1:A:266:ILE:O	3:A:810:TYM:CH2[8_664]	1.30	0.90
1:A:278:ILE:O	1:A:473:HIS:CG[5_454]	1.30	0.90
1:A:278:ILE:O	1:A:473:HIS:CA[5_454]	1.30	0.90
1:A:306:LEU:CA	1:B:212:TYR:CE1[5_454]	1.30	0.90
1:A:330:PRO:CA	4:B:812:GOL:C3[5_454]	1.30	0.90
1:A:341:PRO:N	1:A:364:THR:CA[4_465]	1.30	0.90
1:A:346:ALA:O	1:A:361:LEU:O[4_465]	1.30	0.90
1:A:379:GLY:N	1:A:438:LEU:CD2[4_465]	1.30	0.90
1:A:407:LEU:CD2	1:A:420:TYR:C[3_665]	1.30	0.90
1:A:408:GLU:OE2	1:B:230:ASN:OD1[5_454]	1.30	0.90
1:A:428:GLY:CA	1:A:430:LEU:C[4_465]	1.30	0.90
5:B:817:TRP:NE1	6:A:841:HOH:O[5_454]	1.30	0.90
1:B:201:TYR:CD1	6:A:853:HOH:O[5_454]	1.30	0.90
1:B:100:TYR:N	1:B:398:VAL:N[3_675]	1.30	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:105:VAL:N	1:B:402:TYR:C[3_675]	1.30	0.90
1:B:163:GLY:CA	1:B:270:THR:CG2[4_365]	1.30	0.90
1:B:169:MET:CG	1:B:267:PHE:CB[4_365]	1.30	0.90
1:B:179:PHE:CE2	6:B:887:HOH:O[3_675]	1.30	0.90
1:B:300:ARG:CB	1:B:301:THR:N[2_475]	1.30	0.90
1:B:312:ASP:C	1:B:358:SER:O[3_675]	1.30	0.90
1:B:315:PRO:CG	1:B:359:ILE:O[3_675]	1.30	0.90
1:B:319:MET:O	1:B:446:GLN:CG[3_675]	1.30	0.90
1:B:322:ASP:CB	1:B:444:GLU:C[3_675]	1.30	0.90
1:B:322:ASP:OD1	1:B:445:HIS:N[3_675]	1.30	0.90
1:B:332:PRO:CB	6:B:902:HOH:O[3_675]	1.30	0.90
1:B:335:LEU:O	1:B:370:THR:N[3_675]	1.30	0.90
1:A:104:ILE:CA	1:A:298:ARG:NH2[3_675]	1.31	0.89
1:A:106:ARG:CB	1:A:237:ASP:CG[8_664]	1.31	0.89
1:A:111:LYS:CE	1:B:253:LYS:O[8_664]	1.31	0.89
1:A:113:ASP:C	1:B:258:VAL:CG2[8_664]	1.31	0.89
1:A:118:ASN:ND2	1:B:445:HIS:NE2[5_454]	1.31	0.89
1:A:119:ARG:CB	1:B:169:MET:CE[5_454]	1.31	0.89
1:A:124:THR:CB	1:B:193:ILE:CG2[5_454]	1.31	0.89
1:A:126:GLN:CA	1:B:191:LEU:CD2[5_454]	1.31	0.89
1:A:134:ARG:C	1:B:451:GLU:O[5_454]	1.31	0.89
1:A:137:PHE:CD2	1:B:454:ASP:O[5_454]	1.31	0.89
1:A:141:ARG:C	1:B:213:SER:CB[5_454]	1.31	0.89
1:A:153:LYS:CE	1:B:284:GLN:OE1[5_454]	1.31	0.89
1:A:167:GLU:CD	1:A:169:MET:CE[6_574]	1.31	0.89
1:A:190:PRO:O	1:B:240:TYR:C[5_454]	1.31	0.89
1:A:191:LEU:O	1:B:243:MET:CA[5_454]	1.31	0.89
1:A:217:GLU:CG	1:A:218:ASN:CB[6_574]	1.31	0.89
1:A:251:VAL:C	1:A:300:ARG:CA[5_454]	1.31	0.89
1:A:260:PHE:O	1:B:212:TYR:CG[3_675]	1.31	0.89
1:A:263:VAL:CG2	1:A:333:ALA:O[8_664]	1.31	0.89
1:A:291:ASN:C	1:A:292:SER:OG[5_454]	1.31	0.89
1:A:347:GLN:C	1:A:362:THR:CB[4_465]	1.31	0.89
1:A:369:LYS:CG	6:A:891:HOH:O[4_465]	1.31	0.89
1:A:370:THR:O	1:A:374:LYS:N[4_465]	1.31	0.89
1:A:379:GLY:O	1:A:406:PHE:CB[4_465]	1.31	0.89
1:A:382:ASP:CG	1:A:405:PHE:CZ[4_465]	1.31	0.89
1:A:395:ASP:C	1:A:441:LEU:CA[4_465]	1.31	0.89
1:A:401:MET:CE	1:A:442:ILE:CA[4_465]	1.31	0.89
1:A:409:ASP:OD2	1:A:422:SER:CB[3_665]	1.31	0.89
1:A:430:LEU:O	1:A:432:LYS:CA[4_465]	1.31	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:432:LYS:CD	1:A:433:ALA:CB[3_665]	1.31	0.89
1:A:432:LYS:CE	1:A:433:ALA:CB[3_665]	1.31	0.89
1:A:468:PHE:CZ	1:B:247:PHE:CB[5_454]	1.31	0.89
1:B:94:SER:N	1:B:94:SER:O[3_675]	1.31	0.89
1:B:138:PHE:CE2	1:B:399:SER:OG[3_675]	1.31	0.89
1:B:148:ASP:OD2	1:B:152:ASN:OD1[2_475]	1.31	0.89
1:B:164:PRO:CD	1:B:270:THR:CA[4_365]	1.31	0.89
1:B:214:TYR:C	1:B:278:ILE:CD1[4_365]	1.31	0.89
1:B:234:ILE:CD1	1:B:261:ASN:OD1[4_365]	1.31	0.89
1:B:258:VAL:CG1	1:B:449:ARG:CG[3_675]	1.31	0.89
1:B:277:LYS:CE	6:B:877:HOH:O[3_675]	1.31	0.89
1:B:300:ARG:NH2	1:B:303:ILE:N[2_475]	1.31	0.89
1:B:306:LEU:C	1:B:366:LYS:CG[3_675]	1.31	0.89
1:B:316:TYR:O	1:B:361:LEU:O[3_675]	1.31	0.89
1:B:319:MET:O	1:B:446:GLN:CA[3_675]	1.31	0.89
1:B:333:ALA:N	1:B:365:ALA:CB[3_675]	1.31	0.89
1:A:94:SER:CB	1:A:445:HIS:CE1[4_465]	1.32	0.88
1:A:98:ILE:CG2	1:A:200:LYS:CB[8_664]	1.32	0.88
1:A:107:PHE:C	1:A:283:ILE:CB[8_664]	1.32	0.88
1:A:110:SER:C	1:A:471:GLN:CG[3_675]	1.32	0.88
1:A:112:ILE:CG1	1:B:220:LYS:CD[5_454]	1.32	0.88
1:A:117:ILE:C	1:B:221:ASP:O[5_454]	1.32	0.88
1:A:117:ILE:C	1:B:221:ASP:CA[5_454]	1.32	0.88
1:A:119:ARG:NH2	1:B:162:ARG:NH2[5_454]	1.32	0.88
1:A:121:GLU:C	1:B:177:PHE:CD1[5_454]	1.32	0.88
1:A:140:HIS:NE2	1:B:217:GLU:CG[5_454]	1.32	0.88
1:A:141:ARG:CZ	1:A:472:HIS:CB[3_675]	1.32	0.88
1:A:154:LYS:CE	1:B:203:TRP:CE3[5_454]	1.32	0.88
1:A:156:PHE:CE1	1:B:271:ASP:OD2[8_664]	1.32	0.88
1:A:156:PHE:CD2	1:B:195:MET:O[5_454]	1.32	0.88
1:A:203:TRP:CD2	1:A:337:SER:O[8_664]	1.32	0.88
1:A:210:GLN:N	1:A:224:ALA:CA[6_574]	1.32	0.88
1:A:255:GLN:OE1	1:A:300:ARG:NE[5_454]	1.32	0.88
1:A:260:PHE:CE1	1:B:216:VAL:CG2[3_675]	1.32	0.88
1:A:279:SER:OG	1:A:471:GLN:CB[5_454]	1.32	0.88
1:A:325:PRO:N	1:A:326:ARG:CG[8_664]	1.32	0.88
1:A:332:PRO:CD	1:B:209:ASP:OD1[5_454]	1.32	0.88
1:A:332:PRO:N	1:B:209:ASP:OD1[5_454]	1.32	0.88
1:A:382:ASP:CG	1:A:405:PHE:CE1[4_465]	1.32	0.88
1:A:432:LYS:CG	1:A:433:ALA:N[3_665]	1.32	0.88
1:A:439:GLN:CD	4:A:814:GOL:O2[2_575]	1.32	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:98:ILE:CB	1:B:346:ALA:N[3_675]	1.32	0.88
1:B:110:SER:N	1:B:434:LEU:C[3_675]	1.32	0.88
1:B:116:LEU:CG	1:B:432:LYS:CE[3_675]	1.32	0.88
1:B:222:ILE:N	1:B:261:ASN:O[4_365]	1.32	0.88
1:B:259:THR:CG2	1:B:452:VAL:CB[3_675]	1.32	0.88
1:B:284:GLN:O	6:B:847:HOH:O[3_675]	1.32	0.88
1:B:291:ASN:CB	1:B:298:ARG:O[2_475]	1.32	0.88
1:B:308:PRO:CD	1:B:366:LYS:CD[3_675]	1.32	0.88
1:B:315:PRO:C	1:B:361:LEU:N[3_675]	1.32	0.88
1:B:336:HIS:CB	1:B:372:VAL:CB[3_675]	1.32	0.88
1:A:92:THR:O	1:A:166:SER:CA[8_664]	1.33	0.87
1:A:107:PHE:O	1:A:283:ILE:CB[8_664]	1.33	0.87
1:A:123:ALA:N	1:B:177:PHE:CE2[5_454]	1.33	0.87
1:A:124:THR:CB	1:B:193:ILE:CG1[5_454]	1.33	0.87
1:A:137:PHE:N	1:B:453:THR:O[5_454]	1.33	0.87
1:A:140:HIS:N	1:A:275:ILE:O[8_664]	1.33	0.87
1:A:181:LYS:CA	1:B:463:PRO:N[5_454]	1.33	0.87
1:A:189:VAL:O	1:B:240:TYR:CD2[5_454]	1.33	0.87
1:A:235:PHE:O	1:A:454:ASP:OD2[6_574]	1.33	0.87
1:A:277:LYS:CG	1:B:454:ASP:CB[3_675]	1.33	0.87
1:A:278:ILE:CG1	1:A:335:LEU:CD2[8_664]	1.33	0.87
1:A:278:ILE:C	1:A:473:HIS:CD2[5_454]	1.33	0.87
1:A:305:CYS:SG	6:A:851:HOH:O[5_454]	1.33	0.87
1:A:322:ASP:O	1:A:323:VAL:O[8_664]	1.33	0.87
1:A:324:ALA:CB	1:A:326:ARG:NH2[8_664]	1.33	0.87
1:A:330:PRO:O	4:B:812:GOL:C1[5_454]	1.33	0.87
1:A:332:PRO:N	1:B:209:ASP:CG[5_454]	1.33	0.87
1:A:333:ALA:CB	1:B:212:TYR:C[5_454]	1.33	0.87
1:A:341:PRO:CB	1:A:363:ASP:O[4_465]	1.33	0.87
1:A:347:GLN:C	1:A:362:THR:CG2[4_465]	1.33	0.87
1:A:348:THR:O	1:A:362:THR:C[4_465]	1.33	0.87
1:A:374:LYS:O	1:A:374:LYS:CB[3_665]	1.33	0.87
1:A:382:ASP:O	1:A:401:MET:CB[4_465]	1.33	0.87
1:A:412:LYS:CD	1:A:419:ASP:C[3_665]	1.33	0.87
1:A:430:LEU:CD2	1:A:436:GLU:N[4_465]	1.33	0.87
1:A:439:GLN:OE1	4:A:814:GOL:C2[2_575]	1.33	0.87
1:B:220:LYS:N	1:B:260:PHE:CA[4_365]	1.33	0.87
1:B:321:ARG:C	1:B:443:ALA:C[3_675]	1.33	0.87
1:A:100:TYR:CA	1:A:201:TYR:CA[8_664]	1.34	0.86
1:A:103:LEU:CA	1:A:198:ASP:CB[8_664]	1.34	0.86
1:A:105:VAL:CG1	1:A:465:LYS:CD[3_675]	1.34	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:113:ASP:C	1:B:258:VAL:CG1[8_664]	1.34	0.86
1:A:117:ILE:CG1	1:B:220:LYS:O[5_454]	1.34	0.86
1:A:117:ILE:CG2	1:B:224:ALA:N[5_454]	1.34	0.86
1:A:118:ASN:CG	1:B:445:HIS:CD2[5_454]	1.34	0.86
1:A:127:ARG:CA	1:B:227:PHE:CA[5_454]	1.34	0.86
1:A:127:ARG:CG	1:B:226:GLY:O[5_454]	1.34	0.86
1:A:131:PHE:CA	1:B:456:ILE:CB[5_454]	1.34	0.86
1:A:139:SER:C	1:A:277:LYS:N[8_664]	1.34	0.86
1:A:149:ALA:N	1:B:200:LYS:CG[5_454]	1.34	0.86
1:A:153:LYS:C	1:B:280:PHE:CE2[5_454]	1.34	0.86
1:A:156:PHE:O	1:B:237:ASP:O[5_454]	1.34	0.86
1:A:157:TYR:C	1:B:238:LEU:C[5_454]	1.34	0.86
1:A:157:TYR:C	1:B:239:ASP:CA[5_454]	1.34	0.86
1:A:179:PHE:CE2	1:B:457:VAL:O[5_454]	1.34	0.86
1:A:181:LYS:CD	1:B:464:ARG:N[5_454]	1.34	0.86
1:A:183:LEU:CD1	1:A:270:THR:CA[8_664]	1.34	0.86
1:A:187:PHE:CZ	1:B:195:MET:CG[5_454]	1.34	0.86
1:A:217:GLU:CG	1:A:218:ASN:N[6_574]	1.34	0.86
1:A:233:PHE:CD1	1:A:243:MET:CG[5_454]	1.34	0.86
1:A:238:LEU:C	1:A:453:THR:CG2[6_574]	1.34	0.86
1:A:248:TYR:CG	1:A:297:PHE:CE2[5_454]	1.34	0.86
1:A:253:LYS:CA	1:A:302:ASP:N[5_454]	1.34	0.86
1:A:253:LYS:CA	1:A:301:THR:C[5_454]	1.34	0.86
1:A:304:GLN:C	1:B:238:LEU:CG[5_454]	1.34	0.86
1:A:345:GLY:O	1:A:363:ASP:N[4_465]	1.34	0.86
1:A:372:VAL:CB	1:A:431:LYS:CE[3_665]	1.34	0.86
1:A:397:ASP:CA	1:A:438:LEU:CB[4_465]	1.34	0.86
1:B:102:LYS:N	1:B:400:PHE:C[3_675]	1.34	0.86
1:B:112:ILE:CG2	1:B:428:GLY:O[3_675]	1.34	0.86
1:B:141:ARG:CZ	1:B:438:LEU:C[3_675]	1.34	0.86
1:B:211:ALA:C	1:B:273:ASP:O[4_365]	1.34	0.86
1:B:213:SER:CB	1:B:275:ILE:CG2[4_365]	1.34	0.86
1:B:317:PHE:CD2	1:B:363:ASP:CA[3_675]	1.34	0.86
1:B:318:ARG:CD	1:B:441:LEU:CD2[3_675]	1.34	0.86
1:B:327:ILE:CB	1:B:450:LYS:NZ[3_675]	1.34	0.86
1:B:335:LEU:N	1:B:369:LYS:CB[3_675]	1.34	0.86
1:B:347:GLN:CA	1:B:347:GLN:CG[3_675]	1.34	0.86
1:A:102:LYS:CD	1:A:452:VAL:N[4_465]	1.35	0.85
1:A:112:ILE:CG1	1:A:274:CYS:C[8_664]	1.35	0.85
1:A:119:ARG:CG	1:B:263:VAL:O[8_664]	1.35	0.85
1:A:119:ARG:O	1:B:265:GLY:N[8_664]	1.35	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:126:GLN:C	1:B:227:PHE:CG[5_454]	1.35	0.85
1:A:155:PRO:O	1:B:198:ASP:CA[5_454]	1.35	0.85
1:A:158:LEU:CD2	1:A:264:LYS:CE[8_664]	1.35	0.85
1:A:191:LEU:CG	1:B:243:MET:CG[5_454]	1.35	0.85
1:A:207:THR:O	1:A:448:ARG:C[6_574]	1.35	0.85
1:A:213:SER:O	1:A:217:GLU:O[6_574]	1.35	0.85
1:A:213:SER:C	1:A:220:LYS:N[6_574]	1.35	0.85
1:A:225:CYS:O	6:A:816:HOH:O[3_665]	1.35	0.85
1:A:250:ASN:O	1:A:301:THR:N[5_454]	1.35	0.85
1:A:263:VAL:CG1	1:A:334:LEU:CD1[8_664]	1.35	0.85
1:A:266:ILE:CB	1:A:475:HIS:CA[5_454]	1.35	0.85
1:A:284:GLN:N	1:A:318:ARG:CD[8_664]	1.35	0.85
1:A:329:TYR:CE1	1:A:329:TYR:CE2[5_454]	1.35	0.85
1:A:359:ILE:CB	1:A:377:PHE:CG[3_665]	1.35	0.85
1:A:388:ARG:NE	1:A:413:LEU:O[4_465]	1.35	0.85
1:A:389:GLN:OE1	6:A:878:HOH:O[4_465]	1.35	0.85
1:A:399:SER:CB	1:A:435:ILE:CB[4_465]	1.35	0.85
1:A:431:LYS:N	1:A:431:LYS:O[4_465]	1.35	0.85
1:B:94:SER:CA	1:B:94:SER:O[3_675]	1.35	0.85
1:B:100:TYR:CG	1:B:398:VAL:CB[3_675]	1.35	0.85
1:B:112:ILE:N	1:B:432:LYS:N[3_675]	1.35	0.85
1:B:139:SER:C	1:B:435:ILE:CG1[3_675]	1.35	0.85
1:B:169:MET:N	1:B:267:PHE:CG[4_365]	1.35	0.85
1:B:257:HIS:C	1:B:449:ARG:C[3_675]	1.35	0.85
1:B:258:VAL:N	1:B:449:ARG:O[3_675]	1.35	0.85
1:B:306:LEU:O	1:B:366:LYS:CB[3_675]	1.35	0.85
1:A:111:LYS:CD	1:B:255:GLN:N[8_664]	1.36	0.84
1:A:117:ILE:CA	1:B:220:LYS:C[5_454]	1.36	0.84
1:A:120:ILE:CA	1:B:222:ILE:CD1[5_454]	1.36	0.84
1:A:126:GLN:C	1:B:227:PHE:CD2[5_454]	1.36	0.84
1:A:129:HIS:CE1	1:B:229:ILE:CD1[5_454]	1.36	0.84
1:A:135:GLY:C	1:B:453:THR:CB[5_454]	1.36	0.84
1:A:140:HIS:CD2	1:B:217:GLU:CG[5_454]	1.36	0.84
1:A:145:GLN:OE1	1:B:277:LYS:CG[8_664]	1.36	0.84
1:A:153:LYS:O	1:B:280:PHE:CE2[5_454]	1.36	0.84
1:A:181:LYS:CG	1:B:463:PRO:C[5_454]	1.36	0.84
1:A:191:LEU:O	1:B:243:MET:N[5_454]	1.36	0.84
1:A:206:LEU:C	1:A:444:GLU:O[6_574]	1.36	0.84
1:A:239:ASP:CA	1:A:464:ARG:CA[5_454]	1.36	0.84
1:A:248:TYR:CB	1:A:297:PHE:CD1[5_454]	1.36	0.84
1:A:255:GLN:OE1	1:A:300:ARG:NH1[5_454]	1.36	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:278:ILE:CD1	1:A:335:LEU:CD2[8_664]	1.36	0.84
1:A:306:LEU:CB	1:B:212:TYR:CE1[5_454]	1.36	0.84
1:A:345:GLY:CA	1:A:360:PHE:O[4_465]	1.36	0.84
1:A:370:THR:O	1:A:375:HIS:N[2_575]	1.36	0.84
1:A:372:VAL:O	1:A:373:ASN:CA[2_575]	1.36	0.84
1:A:400:PHE:O	4:A:814:GOL:C2[3_665]	1.36	0.84
1:A:458:LYS:CB	1:A:462:THR:CG2[2_475]	1.36	0.84
1:B:255:GLN:CG	6:A:867:HOH:O[5_454]	1.36	0.84
1:B:98:ILE:CA	1:B:346:ALA:N[3_675]	1.36	0.84
1:B:100:TYR:CE2	1:B:377:PHE:CB[3_675]	1.36	0.84
1:B:141:ARG:CB	1:B:439:GLN:CG[3_675]	1.36	0.84
1:B:148:ASP:CA	1:B:152:ASN:ND2[2_475]	1.36	0.84
1:B:167:GLU:CD	1:B:276:GLY:O[4_365]	1.36	0.84
1:B:218:ASN:CA	1:B:263:VAL:CG2[4_365]	1.36	0.84
1:B:300:ARG:CD	1:B:301:THR:C[2_475]	1.36	0.84
1:B:317:PHE:CB	1:B:363:ASP:O[3_675]	1.36	0.84
1:B:317:PHE:CG	1:B:363:ASP:CA[3_675]	1.36	0.84
1:B:318:ARG:CA	1:B:442:ILE:CG2[3_675]	1.36	0.84
1:A:97:GLY:N	1:A:206:LEU:CD2[8_664]	1.37	0.83
1:A:99:ASP:CA	1:A:450:LYS:N[4_465]	1.37	0.83
1:A:112:ILE:CG1	1:A:275:ILE:CA[8_664]	1.37	0.83
1:A:118:ASN:N	1:B:262:GLN:CA[8_664]	1.37	0.83
1:A:126:GLN:O	1:B:227:PHE:CE1[5_454]	1.37	0.83
1:A:127:ARG:NE	1:B:226:GLY:O[5_454]	1.37	0.83
1:A:130:HIS:ND1	1:B:229:ILE:CG2[5_454]	1.37	0.83
1:A:133:ARG:CD	6:B:845:HOH:O[5_454]	1.37	0.83
1:A:136:ILE:CG1	1:A:386:GLU:OE2[3_665]	1.37	0.83
1:A:137:PHE:CA	1:B:454:ASP:CA[5_454]	1.37	0.83
1:A:137:PHE:CD1	1:B:454:ASP:O[5_454]	1.37	0.83
1:A:143:MET:CB	1:B:217:GLU:N[5_454]	1.37	0.83
1:A:145:GLN:O	1:B:273:ASP:N[8_664]	1.37	0.83
1:A:148:ASP:O	1:B:200:LYS:CE[5_454]	1.37	0.83
1:A:158:LEU:CD2	1:A:264:LYS:CG[8_664]	1.37	0.83
1:A:182:TRP:CA	1:B:464:ARG:NH1[5_454]	1.37	0.83
1:A:183:LEU:CG	1:B:461:MET:CA[5_454]	1.37	0.83
1:A:184:GLN:C	1:B:233:PHE:CZ[5_454]	1.37	0.83
1:A:211:ALA:CB	1:A:449:ARG:O[6_574]	1.37	0.83
1:A:230:ASN:O	1:B:246:GLY:N[5_454]	1.37	0.83
1:A:233:PHE:CG	1:A:243:MET:CB[5_454]	1.37	0.83
1:A:247:PHE:CD1	1:A:294:PRO:CD[5_454]	1.37	0.83
1:A:256:LYS:O	1:B:210:GLN:OE1[3_675]	1.37	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:HIS:C	1:A:331:LYS:CG[8_664]	1.37	0.83
1:A:259:THR:O	1:B:212:TYR:CB[3_675]	1.37	0.83
1:A:277:LYS:CD	1:A:336:HIS:C[8_664]	1.37	0.83
1:A:317:PHE:CE1	1:A:475:HIS:C[3_675]	1.37	0.83
1:A:334:LEU:CA	1:A:473:HIS:CB[3_675]	1.37	0.83
1:A:336:HIS:C	1:B:454:ASP:CB[5_454]	1.37	0.83
1:A:359:ILE:CG1	1:A:377:PHE:CB[3_665]	1.37	0.83
1:A:365:ALA:O	1:A:402:TYR:CG[3_665]	1.37	0.83
1:A:373:ASN:OD1	1:A:431:LYS:CD[2_575]	1.37	0.83
1:A:387:HIS:C	1:A:413:LEU:CG[4_465]	1.37	0.83
1:A:388:ARG:CZ	1:A:417:ARG:N[4_465]	1.37	0.83
1:A:466:LEU:C	6:B:823:HOH:O[5_454]	1.37	0.83
1:B:173:HIS:CG	6:A:819:HOH:O[5_454]	1.37	0.83
1:B:101:ASP:C	1:B:400:PHE:CA[3_675]	1.37	0.83
1:B:102:LYS:C	1:B:402:TYR:N[3_675]	1.37	0.83
1:B:106:ARG:N	1:B:402:TYR:O[3_675]	1.37	0.83
1:B:140:HIS:C	1:B:435:ILE:CG2[3_675]	1.37	0.83
1:B:164:PRO:O	1:B:273:ASP:OD1[4_365]	1.37	0.83
1:B:169:MET:C	1:B:267:PHE:CD2[4_365]	1.37	0.83
1:B:254:ILE:O	6:B:825:HOH:O[3_675]	1.37	0.83
1:B:257:HIS:CB	1:B:450:LYS:C[3_675]	1.37	0.83
1:B:300:ARG:CA	1:B:300:ARG:O[2_475]	1.37	0.83
1:B:309:CYS:O	1:B:371:LYS:CB[3_675]	1.37	0.83
1:B:339:PHE:CB	1:B:344:GLN:CB[3_675]	1.37	0.83
1:A:103:LEU:CB	1:A:198:ASP:CA[8_664]	1.38	0.82
1:A:104:ILE:N	1:A:198:ASP:CB[8_664]	1.38	0.82
1:A:105:VAL:CB	1:A:465:LYS:CG[3_675]	1.38	0.82
1:A:106:ARG:O	1:A:294:PRO:O[3_675]	1.38	0.82
1:A:120:ILE:N	1:B:222:ILE:CG1[5_454]	1.38	0.82
1:A:120:ILE:CG1	1:B:260:PHE:C[8_664]	1.38	0.82
1:A:126:GLN:CD	1:B:191:LEU:CG[5_454]	1.38	0.82
1:A:135:GLY:O	1:B:453:THR:CB[5_454]	1.38	0.82
1:A:138:PHE:CD2	1:A:202:LEU:CG[8_664]	1.38	0.82
1:A:142:ASP:CA	1:B:275:ILE:N[8_664]	1.38	0.82
1:A:144:ASN:N	1:B:214:TYR:CA[5_454]	1.38	0.82
1:A:179:PHE:CB	1:B:458:LYS:O[5_454]	1.38	0.82
1:A:192:VAL:CB	6:B:858:HOH:O[5_454]	1.38	0.82
1:A:199:GLU:O	1:A:450:LYS:NZ[6_574]	1.38	0.82
1:A:201:TYR:CG	1:A:447:ALA:O[6_574]	1.38	0.82
1:A:203:TRP:NE1	1:A:337:SER:O[8_664]	1.38	0.82
1:A:228:ASP:C	6:B:884:HOH:O[5_454]	1.38	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:239:ASP:CB	1:A:464:ARG:CA[5_454]	1.38	0.82
1:A:251:VAL:C	1:A:300:ARG:C[5_454]	1.38	0.82
1:A:289:PHE:CE2	1:A:322:ASP:OD2[8_664]	1.38	0.82
1:A:336:HIS:CG	6:A:910:HOH:O[3_675]	1.38	0.82
1:A:342:ALA:N	1:A:364:THR:N[4_465]	1.38	0.82
1:A:372:VAL:CA	1:A:372:VAL:O[3_665]	1.38	0.82
1:A:381:ARG:CB	1:A:405:PHE:N[4_465]	1.38	0.82
1:A:391:GLY:C	1:A:407:LEU:O[4_465]	1.38	0.82
1:A:412:LYS:C	1:A:424:ALA:N[3_665]	1.38	0.82
1:A:428:GLY:O	1:A:431:LYS:C[2_575]	1.38	0.82
1:B:249:LYS:CD	6:A:875:HOH:O[5_454]	1.38	0.82
1:B:100:TYR:N	1:B:398:VAL:CA[3_675]	1.38	0.82
1:B:138:PHE:O	1:B:431:LYS:CB[3_675]	1.38	0.82
1:B:215:ALA:O	1:B:260:PHE:CZ[4_365]	1.38	0.82
1:B:220:LYS:CB	1:B:259:THR:CA[4_365]	1.38	0.82
1:B:257:HIS:CA	1:B:450:LYS:CA[3_675]	1.38	0.82
1:B:307:ILE:CG2	1:B:367:GLN:CA[3_675]	1.38	0.82
1:B:321:ARG:CA	1:B:443:ALA:CA[3_675]	1.38	0.82
1:A:108:GLY:CA	1:A:298:ARG:N[3_675]	1.39	0.81
1:A:110:SER:N	1:A:470:PHE:C[3_675]	1.39	0.81
1:A:111:LYS:NZ	1:B:256:LYS:CA[8_664]	1.39	0.81
1:A:114:LYS:O	1:B:445:HIS:CE1[5_454]	1.39	0.81
1:A:116:LEU:N	1:B:221:ASP:OD1[5_454]	1.39	0.81
1:A:122:ARG:CZ	1:B:265:GLY:O[8_664]	1.39	0.81
1:A:123:ALA:CB	1:B:162:ARG:CB[5_454]	1.39	0.81
1:A:132:LEU:CG	1:B:223:ILE:CD1[5_454]	1.39	0.81
1:A:137:PHE:C	1:B:454:ASP:N[5_454]	1.39	0.81
1:A:145:GLN:CA	1:B:273:ASP:CA[8_664]	1.39	0.81
1:A:146:VAL:O	1:B:164:PRO:CG[5_454]	1.39	0.81
1:A:155:PRO:O	1:B:198:ASP:CG[5_454]	1.39	0.81
1:A:176:PRO:CB	1:B:458:LYS:NZ[5_454]	1.39	0.81
1:A:179:PHE:CD2	1:B:458:LYS:N[5_454]	1.39	0.81
1:A:184:GLN:CB	1:B:233:PHE:CZ[5_454]	1.39	0.81
1:A:205:ASP:CB	1:A:443:ALA:C[6_574]	1.39	0.81
1:A:208:LEU:CA	1:A:448:ARG:O[6_574]	1.39	0.81
1:A:211:ALA:CB	1:A:450:LYS:N[6_574]	1.39	0.81
1:A:211:ALA:CA	1:A:449:ARG:CA[6_574]	1.39	0.81
1:A:211:ALA:CB	1:A:449:ARG:CA[6_574]	1.39	0.81
1:A:213:SER:OG	1:A:220:LYS:C[6_574]	1.39	0.81
1:A:213:SER:OG	1:A:221:ASP:CA[6_574]	1.39	0.81
1:A:214:TYR:CD2	1:A:449:ARG:CD[6_574]	1.39	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:232:THR:CB	1:B:243:MET:O[5_454]	1.39	0.81
1:A:236:SER:OG	1:A:454:ASP:N[6_574]	1.39	0.81
1:A:239:ASP:CG	1:A:464:ARG:CB[5_454]	1.39	0.81
1:A:240:TYR:CE2	1:A:240:TYR:OH[5_454]	1.39	0.81
1:A:248:TYR:CD1	1:A:297:PHE:CD2[5_454]	1.39	0.81
1:A:251:VAL:C	1:A:300:ARG:CB[5_454]	1.39	0.81
1:A:255:GLN:CD	1:A:300:ARG:NE[5_454]	1.39	0.81
1:A:259:THR:OG1	1:B:208:LEU:O[3_675]	1.39	0.81
1:A:262:GLN:NE2	1:A:331:LYS:O[8_664]	1.39	0.81
1:A:263:VAL:O	1:A:307:ILE:C[8_664]	1.39	0.81
1:A:278:ILE:CB	1:A:473:HIS:CE1[5_454]	1.39	0.81
1:A:340:PHE:CD1	6:A:817:HOH:O[4_465]	1.39	0.81
1:A:347:GLN:CA	1:A:362:THR:N[4_465]	1.39	0.81
1:A:347:GLN:CD	1:A:361:LEU:N[4_465]	1.39	0.81
1:A:372:VAL:N	1:A:376:ALA:N[3_665]	1.39	0.81
1:A:381:ARG:CD	1:A:405:PHE:CA[4_465]	1.39	0.81
1:A:381:ARG:CA	1:A:405:PHE:N[4_465]	1.39	0.81
1:A:391:GLY:N	1:A:407:LEU:O[4_465]	1.39	0.81
1:A:409:ASP:N	1:A:421:THR:O[3_665]	1.39	0.81
1:A:429:GLU:CA	1:A:429:GLU:C[4_465]	1.39	0.81
1:B:293:PHE:CB	6:A:863:HOH:O[5_454]	1.39	0.81
1:B:141:ARG:NE	1:B:438:LEU:O[3_675]	1.39	0.81
1:B:307:ILE:CA	1:B:367:GLN:N[3_675]	1.39	0.81
1:B:321:ARG:CB	1:B:443:ALA:CA[3_675]	1.39	0.81
1:B:321:ARG:C	1:B:443:ALA:O[3_675]	1.39	0.81
1:B:327:ILE:O	1:B:469:ASP:OD2[2_475]	1.39	0.81
1:B:339:PHE:CG	1:B:344:GLN:N[3_675]	1.39	0.81
1:A:93:SER:OG	1:A:221:ASP:OD1[4_465]	1.40	0.80
1:A:106:ARG:NH2	1:A:235:PHE:O[8_664]	1.40	0.80
1:A:109:SER:CA	1:A:470:PHE:O[3_675]	1.40	0.80
1:A:119:ARG:CA	1:B:265:GLY:N[8_664]	1.40	0.80
1:A:134:ARG:NH2	1:A:391:GLY:N[3_665]	1.40	0.80
1:A:141:ARG:CA	1:B:213:SER:OG[5_454]	1.40	0.80
1:A:142:ASP:OD2	1:B:210:GLN:CA[5_454]	1.40	0.80
1:A:154:LYS:CG	1:B:199:GLU:CA[5_454]	1.40	0.80
1:A:167:GLU:OE2	1:A:169:MET:SD[6_574]	1.40	0.80
1:A:181:LYS:CD	1:B:464:ARG:CA[5_454]	1.40	0.80
1:A:184:GLN:C	1:B:233:PHE:CD2[5_454]	1.40	0.80
1:A:206:LEU:CB	1:A:445:HIS:C[6_574]	1.40	0.80
1:A:239:ASP:OD1	1:A:456:ILE:CA[6_574]	1.40	0.80
1:A:245:SER:O	1:A:287:PRO:O[5_454]	1.40	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:258:VAL:C	1:B:210:GLN:N[3_675]	1.40	0.80
1:A:259:THR:N	1:B:209:ASP:C[3_675]	1.40	0.80
1:A:261:ASN:O	1:A:306:LEU:N[8_664]	1.40	0.80
1:A:277:LYS:CB	1:B:454:ASP:OD1[3_675]	1.40	0.80
1:A:277:LYS:NZ	1:A:337:SER:CA[8_664]	1.40	0.80
1:A:285:ALA:N	1:A:318:ARG:CB[8_664]	1.40	0.80
1:A:307:ILE:CG2	1:A:475:HIS:ND1[3_675]	1.40	0.80
1:A:319:MET:CB	1:A:320:THR:CB[8_664]	1.40	0.80
1:A:325:PRO:CB	1:A:326:ARG:CA[8_664]	1.40	0.80
1:A:344:GLN:CB	1:A:371:LYS:NZ[4_465]	1.40	0.80
1:A:348:THR:CA	1:A:362:THR:CB[4_465]	1.40	0.80
1:A:371:LYS:O	1:A:374:LYS:CB[2_575]	1.40	0.80
1:A:381:ARG:CG	1:A:405:PHE:N[4_465]	1.40	0.80
1:A:391:GLY:CA	1:A:407:LEU:C[4_465]	1.40	0.80
1:A:400:PHE:C	1:A:439:GLN:CB[4_465]	1.40	0.80
1:A:429:GLU:N	1:A:433:ALA:N[2_575]	1.40	0.80
1:A:455:GLU:OE2	1:A:464:ARG:CA[2_475]	1.40	0.80
1:A:468:PHE:CA	1:B:248:TYR:CA[5_454]	1.40	0.80
1:B:248:TYR:CG	6:A:836:HOH:O[5_454]	1.40	0.80
1:B:94:SER:CB	1:B:95:ALA:CB[2_485]	1.40	0.80
1:B:95:ALA:CB	1:B:96:LYS:CA[4_365]	1.40	0.80
1:B:98:ILE:CG2	1:B:346:ALA:N[3_675]	1.40	0.80
1:B:137:PHE:CG	1:B:374:LYS:N[3_675]	1.40	0.80
1:B:139:SER:O	1:B:435:ILE:CD1[3_675]	1.40	0.80
1:B:164:PRO:CD	1:B:270:THR:OG1[4_365]	1.40	0.80
1:B:220:LYS:C	1:B:259:THR:O[4_365]	1.40	0.80
1:B:313:GLN:N	1:B:358:SER:C[3_675]	1.40	0.80
1:B:316:TYR:O	1:B:361:LEU:C[3_675]	1.40	0.80
1:B:326:ARG:NE	1:B:447:ALA:O[3_675]	1.40	0.80
1:B:329:TYR:CD1	1:B:470:PHE:O[2_475]	1.40	0.80
1:B:333:ALA:O	1:B:366:LYS:N[3_675]	1.40	0.80
1:B:334:LEU:CG	1:B:368:ILE:CB[3_675]	1.40	0.80
1:A:96:LYS:O	1:A:205:ASP:O[8_664]	1.41	0.79
1:A:107:PHE:O	1:A:298:ARG:CA[3_675]	1.41	0.79
1:A:127:ARG:CG	1:B:227:PHE:CA[5_454]	1.41	0.79
1:A:141:ARG:CB	1:A:473:HIS:N[3_675]	1.41	0.79
1:A:143:MET:CE	1:B:260:PHE:CZ[8_664]	1.41	0.79
1:A:143:MET:CG	1:B:217:GLU:N[5_454]	1.41	0.79
1:A:143:MET:CE	1:B:215:ALA:C[5_454]	1.41	0.79
1:A:148:ASP:OD1	1:B:165:SER:N[5_454]	1.41	0.79
1:A:183:LEU:CG	1:B:461:MET:CG[5_454]	1.41	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:236:SER:OG	1:A:453:THR:CA[6_574]	1.41	0.79
1:A:239:ASP:CA	1:A:464:ARG:C[5_454]	1.41	0.79
1:A:258:VAL:CA	1:B:209:ASP:CA[3_675]	1.41	0.79
1:A:262:GLN:O	6:A:851:HOH:O[3_675]	1.41	0.79
1:A:266:ILE:CG2	1:A:317:PHE:CE1[8_664]	1.41	0.79
1:A:267:PHE:O	1:A:308:PRO:O[8_664]	1.41	0.79
1:A:284:GLN:CD	1:A:315:PRO:CB[8_664]	1.41	0.79
1:A:315:PRO:C	1:A:316:TYR:CB[8_664]	1.41	0.79
1:A:336:HIS:ND1	6:A:910:HOH:O[3_675]	1.41	0.79
1:A:353:SER:CB	1:A:367:GLN:NE2[6_574]	1.41	0.79
1:A:397:ASP:C	1:A:438:LEU:C[4_465]	1.41	0.79
1:A:432:LYS:NZ	1:A:433:ALA:O[3_665]	1.41	0.79
1:B:100:TYR:C	1:B:398:VAL:C[3_675]	1.41	0.79
1:B:107:PHE:CE1	1:B:340:PHE:CZ[3_675]	1.41	0.79
1:B:164:PRO:CG	1:B:270:THR:O[4_365]	1.41	0.79
1:B:214:TYR:N	1:B:278:ILE:CD1[4_365]	1.41	0.79
1:B:307:ILE:O	1:B:366:LYS:C[3_675]	1.41	0.79
1:B:307:ILE:CG2	1:B:367:GLN:N[3_675]	1.41	0.79
1:B:309:CYS:O	1:B:371:LYS:N[3_675]	1.41	0.79
1:B:334:LEU:CA	1:B:365:ALA:O[3_675]	1.41	0.79
1:B:336:HIS:CA	1:B:372:VAL:CA[3_675]	1.41	0.79
1:B:349:LYS:CD	1:B:354:ASP:OD2[3_675]	1.41	0.79
1:A:139:SER:CB	1:A:276:GLY:O[8_664]	1.42	0.78
1:A:143:MET:O	1:B:215:ALA:N[5_454]	1.42	0.78
1:A:144:ASN:ND2	1:B:277:LYS:O[8_664]	1.42	0.78
1:A:145:GLN:C	1:B:273:ASP:N[8_664]	1.42	0.78
1:A:146:VAL:CA	1:B:270:THR:O[8_664]	1.42	0.78
1:A:147:LEU:CD2	1:B:195:MET:CE[5_454]	1.42	0.78
1:A:148:ASP:OD1	1:B:165:SER:CA[5_454]	1.42	0.78
1:A:199:GLU:C	1:A:450:LYS:CD[6_574]	1.42	0.78
1:A:203:TRP:CE2	1:A:337:SER:O[8_664]	1.42	0.78
1:A:208:LEU:CD1	1:A:451:GLU:OE1[6_574]	1.42	0.78
1:A:208:LEU:CG	1:A:451:GLU:CD[6_574]	1.42	0.78
1:A:216:VAL:C	1:A:216:VAL:O[6_574]	1.42	0.78
1:A:233:PHE:CD2	1:A:243:MET:C[5_454]	1.42	0.78
1:A:252:VAL:C	1:A:302:ASP:OD2[5_454]	1.42	0.78
1:A:259:THR:OG1	1:A:304:GLN:NE2[8_664]	1.42	0.78
1:A:275:ILE:CA	1:B:220:LYS:NZ[3_675]	1.42	0.78
1:A:282:ALA:N	1:A:472:HIS:CD2[5_454]	1.42	0.78
1:A:304:GLN:CA	1:B:238:LEU:CD1[5_454]	1.42	0.78
1:A:322:ASP:C	1:A:323:VAL:C[8_664]	1.42	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:332:PRO:CA	1:B:209:ASP:OD1[5_454]	1.42	0.78
1:A:352:ALA:C	6:A:899:HOH:O[8_664]	1.42	0.78
1:A:372:VAL:O	1:A:373:ASN:CB[2_575]	1.42	0.78
1:A:380:GLY:O	1:A:402:TYR:O[4_465]	1.42	0.78
1:A:384:ILE:CB	1:A:440:PRO:CG[2_575]	1.42	0.78
1:A:467:SER:CB	1:B:246:GLY:C[5_454]	1.42	0.78
1:B:451:GLU:N	6:A:911:HOH:O[5_454]	1.42	0.78
1:B:116:LEU:CA	1:B:432:LYS:NZ[3_675]	1.42	0.78
1:B:162:ARG:CZ	1:B:269:PHE:N[4_365]	1.42	0.78
1:B:169:MET:CB	1:B:267:PHE:CB[4_365]	1.42	0.78
1:B:215:ALA:C	1:B:260:PHE:CZ[4_365]	1.42	0.78
1:B:221:ASP:CA	1:B:262:GLN:CB[4_365]	1.42	0.78
1:B:222:ILE:CA	1:B:261:ASN:O[4_365]	1.42	0.78
1:B:309:CYS:SG	1:B:367:GLN:O[3_675]	1.42	0.78
1:B:313:GLN:O	1:B:360:PHE:N[3_675]	1.42	0.78
1:B:326:ARG:NE	1:B:447:ALA:C[3_675]	1.42	0.78
1:A:97:GLY:C	1:A:206:LEU:CD1[8_664]	1.43	0.77
1:A:107:PHE:C	1:A:283:ILE:CG1[8_664]	1.43	0.77
1:A:111:LYS:CB	1:B:255:GLN:CG[8_664]	1.43	0.77
1:A:112:ILE:CD1	1:A:274:CYS:O[8_664]	1.43	0.77
1:A:112:ILE:C	1:B:449:ARG:NH1[5_454]	1.43	0.77
1:A:117:ILE:CA	1:B:262:GLN:CA[8_664]	1.43	0.77
1:A:119:ARG:NE	1:B:269:PHE:N[8_664]	1.43	0.77
1:A:120:ILE:N	1:B:261:ASN:O[8_664]	1.43	0.77
1:A:137:PHE:CA	1:B:453:THR:O[5_454]	1.43	0.77
1:A:137:PHE:CG	1:A:273:ASP:CG[8_664]	1.43	0.77
1:A:140:HIS:NE2	1:B:279:SER:N[8_664]	1.43	0.77
1:A:141:ARG:NH2	1:A:298:ARG:O[3_675]	1.43	0.77
1:A:208:LEU:CG	1:A:451:GLU:OE1[6_574]	1.43	0.77
1:A:212:TYR:CA	1:A:452:VAL:CB[6_574]	1.43	0.77
1:A:215:ALA:N	1:A:220:LYS:CD[6_574]	1.43	0.77
1:A:230:ASN:C	1:B:245:SER:C[5_454]	1.43	0.77
1:A:257:HIS:O	1:A:331:LYS:CA[8_664]	1.43	0.77
1:A:278:ILE:CD1	1:A:335:LEU:CB[8_664]	1.43	0.77
1:A:284:GLN:CD	1:A:315:PRO:CG[8_664]	1.43	0.77
1:A:330:PRO:C	4:B:812:GOL:C3[5_454]	1.43	0.77
1:A:341:PRO:O	1:A:364:THR:OG1[4_465]	1.43	0.77
1:A:346:ALA:C	1:A:362:THR:N[4_465]	1.43	0.77
1:A:354:ASP:CG	1:A:357:SER:OG[8_664]	1.43	0.77
1:A:382:ASP:O	6:A:852:HOH:O[2_575]	1.43	0.77
1:A:392:GLY:CA	1:A:406:PHE:C[4_465]	1.43	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:395:ASP:O	1:A:442:ILE:N[4_465]	1.43	0.77
1:A:453:THR:CG2	1:A:465:LYS:CA[2_475]	1.43	0.77
1:B:103:LEU:CG	1:B:402:TYR:CZ[3_675]	1.43	0.77
1:B:106:ARG:CD	1:B:405:PHE:CD2[3_675]	1.43	0.77
1:B:110:SER:N	1:B:434:LEU:O[3_675]	1.43	0.77
1:B:143:MET:CE	1:B:369:LYS:NZ[3_675]	1.43	0.77
1:B:219:ALA:O	1:B:261:ASN:CA[4_365]	1.43	0.77
1:B:300:ARG:N	1:B:300:ARG:N[2_475]	1.43	0.77
1:B:309:CYS:C	1:B:371:LYS:CA[3_675]	1.43	0.77
1:A:93:SER:CB	1:A:169:MET:CE[4_465]	1.44	0.76
1:A:99:ASP:C	1:A:450:LYS:N[4_465]	1.44	0.76
1:A:99:ASP:CB	1:A:448:ARG:O[4_465]	1.44	0.76
1:A:102:LYS:CG	1:A:451:GLU:C[4_465]	1.44	0.76
1:A:111:LYS:CB	1:B:255:GLN:CA[8_664]	1.44	0.76
1:A:114:LYS:CD	1:B:445:HIS:O[5_454]	1.44	0.76
1:A:115:GLU:CA	1:B:221:ASP:OD1[5_454]	1.44	0.76
1:A:116:LEU:CG	1:B:217:GLU:C[5_454]	1.44	0.76
1:A:117:ILE:O	1:B:222:ILE:CA[5_454]	1.44	0.76
1:A:118:ASN:CG	1:B:445:HIS:NE2[5_454]	1.44	0.76
1:A:119:ARG:NH1	1:B:269:PHE:CE1[8_664]	1.44	0.76
1:A:125:GLY:O	1:B:180:THR:CG2[5_454]	1.44	0.76
1:A:131:PHE:CA	1:B:456:ILE:CG2[5_454]	1.44	0.76
1:A:131:PHE:CE2	6:B:857:HOH:O[5_454]	1.44	0.76
1:A:139:SER:CA	1:A:276:GLY:CA[8_664]	1.44	0.76
1:A:145:GLN:N	1:B:214:TYR:CG[5_454]	1.44	0.76
1:A:147:LEU:O	1:B:163:GLY:CA[5_454]	1.44	0.76
1:A:154:LYS:CB	1:B:199:GLU:CB[5_454]	1.44	0.76
1:A:155:PRO:C	1:B:198:ASP:OD1[5_454]	1.44	0.76
1:A:158:LEU:N	1:B:239:ASP:N[5_454]	1.44	0.76
1:A:207:THR:CG2	6:A:877:HOH:O[6_574]	1.44	0.76
1:A:238:LEU:N	1:A:453:THR:CG2[6_574]	1.44	0.76
1:A:239:ASP:C	1:A:455:GLU:CD[6_574]	1.44	0.76
1:A:241:MET:O	1:A:296:ILE:CG1[5_454]	1.44	0.76
1:A:251:VAL:CA	1:A:300:ARG:O[5_454]	1.44	0.76
1:A:279:SER:C	1:A:472:HIS:N[5_454]	1.44	0.76
1:A:284:GLN:OE1	1:A:315:PRO:CD[8_664]	1.44	0.76
1:A:306:LEU:CB	1:B:212:TYR:CD1[5_454]	1.44	0.76
1:A:313:GLN:C	1:A:316:TYR:CE1[8_664]	1.44	0.76
1:A:321:ARG:C	1:A:323:VAL:CG1[8_664]	1.44	0.76
1:A:332:PRO:CD	1:B:209:ASP:OD2[5_454]	1.44	0.76
1:A:340:PHE:CE2	6:A:817:HOH:O[4_465]	1.44	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:343:LEU:N	1:A:367:GLN:CB[4_465]	1.44	0.76
1:A:346:ALA:CB	1:A:442:ILE:CG2[4_465]	1.44	0.76
1:A:368:ILE:CG1	1:A:398:VAL:CG2[3_665]	1.44	0.76
1:A:374:LYS:CA	1:A:375:HIS:CA[4_465]	1.44	0.76
1:A:413:LEU:N	1:A:423:GLY:O[3_665]	1.44	0.76
1:A:430:LEU:CA	1:A:432:LYS:O[4_465]	1.44	0.76
1:A:431:LYS:N	1:A:432:LYS:CA[4_465]	1.44	0.76
1:A:440:PRO:CA	6:A:865:HOH:O[2_575]	1.44	0.76
1:A:444:GLU:N	6:A:855:HOH:O[3_665]	1.44	0.76
1:A:469:ASP:N	1:B:251:VAL:CB[5_454]	1.44	0.76
1:A:469:ASP:OD2	1:B:252:VAL:CB[5_454]	1.44	0.76
1:B:95:ALA:CB	1:B:96:LYS:C[4_365]	1.44	0.76
1:B:166:SER:O	1:B:269:PHE:CD1[4_365]	1.44	0.76
1:B:221:ASP:O	1:B:262:GLN:CA[4_365]	1.44	0.76
1:B:266:ILE:CB	1:B:361:LEU:CD1[3_675]	1.44	0.76
1:B:266:ILE:CG2	1:B:361:LEU:CG[3_675]	1.44	0.76
1:B:313:GLN:CB	1:B:371:LYS:NZ[3_675]	1.44	0.76
1:A:102:LYS:CG	1:A:238:LEU:CG[8_664]	1.45	0.75
1:A:107:PHE:C	1:A:283:ILE:CG2[8_664]	1.45	0.75
1:A:110:SER:CA	1:A:471:GLN:N[3_675]	1.45	0.75
1:A:112:ILE:CB	1:A:275:ILE:N[8_664]	1.45	0.75
1:A:116:LEU:CA	1:B:263:VAL:CB[8_664]	1.45	0.75
1:A:141:ARG:NH1	1:A:280:PHE:O[8_664]	1.45	0.75
1:A:144:ASN:CG	1:B:167:GLU:CA[5_454]	1.45	0.75
1:A:148:ASP:OD1	1:B:166:SER:N[5_454]	1.45	0.75
1:A:157:TYR:CE1	1:A:249:LYS:CG[5_454]	1.45	0.75
1:A:171:VAL:CB	1:A:377:PHE:CE2[3_665]	1.45	0.75
1:A:203:TRP:CA	1:A:338:THR:CA[8_664]	1.45	0.75
1:A:209:ASP:C	1:A:224:ALA:N[6_574]	1.45	0.75
1:A:214:TYR:CD1	1:A:221:ASP:OD2[6_574]	1.45	0.75
1:A:231:LYS:CA	1:B:244:SER:OG[5_454]	1.45	0.75
1:A:232:THR:N	1:B:244:SER:CA[5_454]	1.45	0.75
1:A:232:THR:N	1:B:244:SER:N[5_454]	1.45	0.75
1:A:249:LYS:CB	1:A:290:SER:N[5_454]	1.45	0.75
1:A:250:ASN:CG	1:A:291:ASN:CG[5_454]	1.45	0.75
1:A:256:LYS:C	1:B:210:GLN:CD[3_675]	1.45	0.75
1:A:259:THR:CB	1:A:304:GLN:CD[8_664]	1.45	0.75
1:A:260:PHE:N	1:B:212:TYR:CB[3_675]	1.45	0.75
1:A:276:GLY:C	1:A:471:GLN:NE2[5_454]	1.45	0.75
1:A:289:PHE:CZ	1:A:322:ASP:CG[8_664]	1.45	0.75
1:A:307:ILE:N	1:B:212:TYR:CZ[5_454]	1.45	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:333:ALA:O	1:B:212:TYR:CE2[5_454]	1.45	0.75
1:A:368:ILE:CA	1:A:398:VAL:CG1[3_665]	1.45	0.75
1:A:372:VAL:N	1:A:373:ASN:C[2_575]	1.45	0.75
1:A:412:LYS:O	1:A:424:ALA:CA[3_665]	1.45	0.75
1:A:436:GLU:OE1	6:A:845:HOH:O[2_575]	1.45	0.75
1:A:469:ASP:OD2	1:B:252:VAL:CA[5_454]	1.45	0.75
1:A:469:ASP:OD2	1:B:252:VAL:N[5_454]	1.45	0.75
5:B:817:TRP:CE2	6:A:841:HOH:O[5_454]	1.45	0.75
1:B:108:GLY:O	1:B:437:VAL:CB[3_675]	1.45	0.75
1:B:164:PRO:O	1:B:273:ASP:CB[4_365]	1.45	0.75
1:B:214:TYR:O	1:B:278:ILE:CG1[4_365]	1.45	0.75
1:B:316:TYR:C	1:B:362:THR:N[3_675]	1.45	0.75
1:B:317:PHE:CD2	1:B:364:THR:N[3_675]	1.45	0.75
1:B:321:ARG:CD	6:B:853:HOH:O[3_675]	1.45	0.75
1:B:337:SER:C	1:B:376:ALA:N[3_675]	1.45	0.75
1:B:338:THR:CG2	1:B:377:PHE:N[3_675]	1.45	0.75
1:A:103:LEU:CD1	1:A:199:GLU:C[8_664]	1.46	0.74
1:A:107:PHE:CE1	1:A:196:THR:CG2[8_664]	1.46	0.74
1:A:114:LYS:N	1:B:449:ARG:CB[5_454]	1.46	0.74
1:A:115:GLU:OE1	1:B:362:THR:CA[5_454]	1.46	0.74
1:A:121:GLU:CD	1:B:225:CYS:CB[5_454]	1.46	0.74
1:A:122:ARG:NE	1:B:174:LEU:N[5_454]	1.46	0.74
1:A:136:ILE:N	1:B:453:THR:CB[5_454]	1.46	0.74
1:A:140:HIS:CE1	1:B:217:GLU:CG[5_454]	1.46	0.74
1:A:147:LEU:CB	1:B:269:PHE:CA[8_664]	1.46	0.74
1:A:147:LEU:C	1:B:164:PRO:CD[5_454]	1.46	0.74
1:A:147:LEU:CA	1:B:270:THR:CA[8_664]	1.46	0.74
1:A:179:PHE:CA	1:B:459:GLU:CA[5_454]	1.46	0.74
1:A:181:LYS:NZ	1:B:464:ARG:O[5_454]	1.46	0.74
1:A:190:PRO:O	1:B:240:TYR:N[5_454]	1.46	0.74
1:A:206:LEU:CG	1:A:446:GLN:N[6_574]	1.46	0.74
1:A:211:ALA:CA	1:A:449:ARG:CB[6_574]	1.46	0.74
1:A:213:SER:C	1:A:220:LYS:CA[6_574]	1.46	0.74
1:A:215:ALA:CB	1:A:220:LYS:NZ[6_574]	1.46	0.74
1:A:240:TYR:CG	1:A:295:GLN:CD[5_454]	1.46	0.74
1:A:240:TYR:CD2	1:A:295:GLN:OE1[5_454]	1.46	0.74
1:A:256:LYS:CB	1:B:210:GLN:NE2[3_675]	1.46	0.74
1:A:260:PHE:CD1	1:B:216:VAL:CG2[3_675]	1.46	0.74
1:A:260:PHE:N	1:A:333:ALA:CB[8_664]	1.46	0.74
1:A:266:ILE:CD1	1:A:475:HIS:O[5_454]	1.46	0.74
1:A:277:LYS:CB	1:B:454:ASP:CG[3_675]	1.46	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:281:PRO:CD	1:A:336:HIS:CE1[8_664]	1.46	0.74
1:A:307:ILE:CD1	1:A:475:HIS:CA[3_675]	1.46	0.74
1:A:319:MET:CE	1:A:474:HIS:CB[5_454]	1.46	0.74
1:A:373:ASN:CB	1:A:431:LYS:NZ[4_465]	1.46	0.74
1:A:374:LYS:CB	1:A:375:HIS:CA[4_465]	1.46	0.74
1:A:391:GLY:C	1:A:407:LEU:CA[4_465]	1.46	0.74
1:A:412:LYS:CA	1:A:424:ALA:CB[3_665]	1.46	0.74
1:A:426:LEU:CG	1:A:436:GLU:CB[2_575]	1.46	0.74
1:A:432:LYS:CG	1:A:433:ALA:CA[3_665]	1.46	0.74
1:A:468:PHE:O	1:B:248:TYR:CD1[5_454]	1.46	0.74
1:B:94:SER:C	1:B:94:SER:O[4_365]	1.46	0.74
1:B:99:ASP:CB	1:B:401:MET:SD[3_675]	1.46	0.74
1:B:105:VAL:CB	1:B:403:LEU:O[3_675]	1.46	0.74
1:B:106:ARG:CG	1:B:405:PHE:CG[3_675]	1.46	0.74
1:B:167:GLU:CG	1:B:277:LYS:C[4_365]	1.46	0.74
1:B:197:ASP:CG	1:B:271:ASP:O[4_365]	1.46	0.74
1:B:216:VAL:O	1:B:260:PHE:CB[4_365]	1.46	0.74
1:B:217:GLU:CA	1:B:278:ILE:CG2[4_365]	1.46	0.74
1:B:220:LYS:N	1:B:259:THR:C[4_365]	1.46	0.74
1:B:300:ARG:O	1:B:300:ARG:CB[2_475]	1.46	0.74
1:B:300:ARG:O	1:B:300:ARG:CG[2_475]	1.46	0.74
1:B:302:ASP:CB	1:B:303:ILE:CG1[2_475]	1.46	0.74
1:B:312:ASP:O	1:B:358:SER:C[3_675]	1.46	0.74
1:B:321:ARG:C	1:B:443:ALA:CA[3_675]	1.46	0.74
1:B:322:ASP:OD2	1:B:445:HIS:N[3_675]	1.46	0.74
1:B:329:TYR:CG	1:B:471:GLN:N[2_475]	1.46	0.74
1:A:94:SER:C	1:A:361:LEU:CD1[4_465]	1.47	0.73
1:A:104:ILE:N	1:A:298:ARG:NH2[3_675]	1.47	0.73
1:A:107:PHE:CA	1:A:283:ILE:CB[8_664]	1.47	0.73
1:A:119:ARG:CG	1:B:169:MET:CE[5_454]	1.47	0.73
1:A:139:SER:O	1:A:278:ILE:N[8_664]	1.47	0.73
1:A:167:GLU:OE1	1:A:169:MET:CG[6_574]	1.47	0.73
1:A:182:TRP:N	1:B:462:THR:O[5_454]	1.47	0.73
1:A:205:ASP:CB	1:A:443:ALA:CB[6_574]	1.47	0.73
1:A:211:ALA:CA	1:A:449:ARG:CG[6_574]	1.47	0.73
1:A:213:SER:CA	1:A:220:LYS:C[6_574]	1.47	0.73
1:A:217:GLU:N	1:A:217:GLU:CA[6_574]	1.47	0.73
1:A:228:ASP:O	6:B:884:HOH:O[5_454]	1.47	0.73
1:A:250:ASN:OD1	6:A:886:HOH:O[5_454]	1.47	0.73
1:A:275:ILE:C	1:B:220:LYS:NZ[3_675]	1.47	0.73
1:A:279:SER:O	1:A:472:HIS:CB[5_454]	1.47	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:284:GLN:CB	1:A:318:ARG:CZ[8_664]	1.47	0.73
1:A:344:GLN:O	1:A:359:ILE:CA[4_465]	1.47	0.73
1:A:412:LYS:CE	1:A:419:ASP:CB[3_665]	1.47	0.73
1:A:455:GLU:OE1	1:A:464:ARG:N[2_475]	1.47	0.73
1:A:470:PHE:CZ	1:B:241:MET:CE[5_454]	1.47	0.73
1:B:225:CYS:CA	6:A:827:HOH:O[5_454]	1.47	0.73
1:B:100:TYR:O	1:B:399:SER:C[3_675]	1.47	0.73
1:B:107:PHE:CE1	1:B:340:PHE:CE2[3_675]	1.47	0.73
1:B:133:ARG:O	4:B:815:GOL:O1[3_675]	1.47	0.73
1:B:137:PHE:CB	1:B:373:ASN:C[3_675]	1.47	0.73
1:B:141:ARG:NE	1:B:438:LEU:CA[3_675]	1.47	0.73
1:B:219:ALA:N	1:B:260:PHE:C[4_365]	1.47	0.73
1:B:257:HIS:CG	1:B:450:LYS:CG[3_675]	1.47	0.73
1:B:257:HIS:O	1:B:449:ARG:O[3_675]	1.47	0.73
1:B:266:ILE:CD1	1:B:445:HIS:NE2[3_675]	1.47	0.73
1:B:308:PRO:C	1:B:370:THR:CB[3_675]	1.47	0.73
1:B:335:LEU:O	1:B:369:LYS:C[3_675]	1.47	0.73
1:A:103:LEU:O	1:A:198:ASP:OD1[8_664]	1.48	0.72
1:A:107:PHE:C	1:A:298:ARG:CB[3_675]	1.48	0.72
1:A:111:LYS:N	1:B:255:GLN:NE2[8_664]	1.48	0.72
1:A:141:ARG:O	1:B:213:SER:CA[5_454]	1.48	0.72
1:A:143:MET:CA	1:B:213:SER:O[5_454]	1.48	0.72
1:A:148:ASP:CB	1:B:165:SER:CA[5_454]	1.48	0.72
1:A:156:PHE:CE1	1:B:236:SER:C[5_454]	1.48	0.72
1:A:167:GLU:O	1:A:168:ALA:N[6_574]	1.48	0.72
1:A:210:GLN:CD	1:A:445:HIS:CG[6_574]	1.48	0.72
1:A:211:ALA:N	1:A:449:ARG:CB[6_574]	1.48	0.72
1:A:212:TYR:OH	1:A:457:VAL:C[6_574]	1.48	0.72
1:A:231:LYS:CA	1:B:244:SER:C[5_454]	1.48	0.72
1:A:239:ASP:N	1:A:464:ARG:C[5_454]	1.48	0.72
1:A:247:PHE:CE1	1:A:294:PRO:N[5_454]	1.48	0.72
1:A:282:ALA:CB	1:A:472:HIS:CD2[5_454]	1.48	0.72
1:A:317:PHE:CD1	1:A:475:HIS:O[3_675]	1.48	0.72
1:A:331:LYS:CA	4:B:812:GOL:O2[5_454]	1.48	0.72
1:A:332:PRO:CB	1:B:209:ASP:OD1[5_454]	1.48	0.72
1:A:334:LEU:CD1	1:A:474:HIS:CA[3_675]	1.48	0.72
1:A:347:GLN:CG	1:A:361:LEU:N[4_465]	1.48	0.72
1:A:375:HIS:ND1	1:A:375:HIS:NE2[3_665]	1.48	0.72
1:A:380:GLY:CA	1:A:402:TYR:C[4_465]	1.48	0.72
1:A:400:PHE:CD1	1:A:436:GLU:O[4_465]	1.48	0.72
1:A:469:ASP:OD2	1:B:252:VAL:CG2[5_454]	1.48	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:97:GLY:C	6:B:836:HOH:O[3_675]	1.48	0.72
1:B:103:LEU:O	1:B:402:TYR:CA[3_675]	1.48	0.72
1:B:140:HIS:CA	1:B:435:ILE:CG2[3_675]	1.48	0.72
1:B:179:PHE:CB	1:B:374:LYS:CE[3_675]	1.48	0.72
1:B:320:THR:CB	1:B:446:GLN:NE2[3_675]	1.48	0.72
1:B:321:ARG:CD	1:B:439:GLN:O[3_675]	1.48	0.72
1:B:328:GLY:N	1:B:469:ASP:OD2[2_475]	1.48	0.72
1:B:334:LEU:C	1:B:369:LYS:CB[3_675]	1.48	0.72
1:B:336:HIS:O	1:B:372:VAL:O[3_675]	1.48	0.72
1:A:100:TYR:CG	1:A:202:LEU:N[8_664]	1.49	0.71
1:A:117:ILE:C	1:B:262:GLN:N[8_664]	1.49	0.71
1:A:118:ASN:ND2	1:B:445:HIS:CG[5_454]	1.49	0.71
1:A:126:GLN:NE2	1:B:191:LEU:CB[5_454]	1.49	0.71
1:A:128:PRO:CG	1:B:223:ILE:C[5_454]	1.49	0.71
1:A:132:LEU:CA	1:B:452:VAL:CG2[5_454]	1.49	0.71
1:A:144:ASN:CB	1:B:166:SER:C[5_454]	1.49	0.71
1:A:145:GLN:NE2	1:B:206:LEU:CD1[5_454]	1.49	0.71
1:A:153:LYS:CD	1:B:284:GLN:CD[5_454]	1.49	0.71
1:A:167:GLU:CD	1:A:169:MET:CG[6_574]	1.49	0.71
1:A:180:THR:CA	1:B:462:THR:CA[5_454]	1.49	0.71
1:A:205:ASP:CG	1:A:443:ALA:CB[6_574]	1.49	0.71
1:A:213:SER:CB	1:A:220:LYS:C[6_574]	1.49	0.71
1:A:231:LYS:N	1:B:244:SER:C[5_454]	1.49	0.71
1:A:232:THR:CA	1:B:243:MET:C[5_454]	1.49	0.71
1:A:239:ASP:OD2	1:A:455:GLU:CA[6_574]	1.49	0.71
1:A:247:PHE:CA	1:A:293:PHE:N[5_454]	1.49	0.71
1:A:247:PHE:CB	1:A:293:PHE:CB[5_454]	1.49	0.71
1:A:249:LYS:C	1:A:290:SER:CB[5_454]	1.49	0.71
1:A:253:LYS:CB	1:A:301:THR:C[5_454]	1.49	0.71
1:A:255:GLN:CA	1:A:321:ARG:NH2[8_664]	1.49	0.71
1:A:255:GLN:CG	1:A:300:ARG:NE[5_454]	1.49	0.71
1:A:269:PHE:CE2	2:A:802:CL:CL[5_454]	1.49	0.71
1:A:278:ILE:CB	1:A:334:LEU:O[8_664]	1.49	0.71
1:A:279:SER:OG	1:A:471:GLN:C[5_454]	1.49	0.71
1:A:289:PHE:CE1	4:B:812:GOL:O1[5_454]	1.49	0.71
1:A:304:GLN:O	1:B:238:LEU:CD2[5_454]	1.49	0.71
1:A:319:MET:O	1:A:320:THR:O[8_664]	1.49	0.71
1:A:330:PRO:N	4:B:812:GOL:O3[5_454]	1.49	0.71
1:A:334:LEU:CB	1:A:473:HIS:CA[3_675]	1.49	0.71
1:A:399:SER:O	1:A:439:GLN:OE1[4_465]	1.49	0.71
1:A:401:MET:CE	1:A:442:ILE:C[4_465]	1.49	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:416:ILE:CD1	1:A:426:LEU:N[3_665]	1.49	0.71
1:A:428:GLY:C	1:A:432:LYS:N[2_575]	1.49	0.71
1:A:455:GLU:N	1:A:463:PRO:O[2_475]	1.49	0.71
1:B:452:VAL:C	6:A:860:HOH:O[5_454]	1.49	0.71
1:B:249:LYS:NZ	6:A:875:HOH:O[5_454]	1.49	0.71
1:B:107:PHE:CD1	1:B:340:PHE:CZ[3_675]	1.49	0.71
1:B:110:SER:O	1:B:434:LEU:N[3_675]	1.49	0.71
1:B:112:ILE:CD1	1:B:373:ASN:OD1[3_675]	1.49	0.71
1:B:140:HIS:ND1	1:B:432:LYS:O[3_675]	1.49	0.71
1:B:164:PRO:N	1:B:270:THR:N[4_365]	1.49	0.71
1:B:215:ALA:O	1:B:260:PHE:CG[4_365]	1.49	0.71
1:B:307:ILE:CA	1:B:366:LYS:CA[3_675]	1.49	0.71
1:B:318:ARG:CA	1:B:442:ILE:CA[3_675]	1.49	0.71
1:B:332:PRO:O	1:B:365:ALA:CB[3_675]	1.49	0.71
1:B:339:PHE:CE2	1:B:342:ALA:C[3_675]	1.49	0.71
1:B:339:PHE:CB	1:B:344:GLN:CA[3_675]	1.49	0.71
1:A:99:ASP:CG	1:A:208:LEU:CA[8_664]	1.50	0.70
1:A:102:LYS:CG	1:A:452:VAL:N[4_465]	1.50	0.70
1:A:106:ARG:NH1	1:A:454:ASP:OD2[4_465]	1.50	0.70
1:A:112:ILE:CD1	1:A:275:ILE:N[8_664]	1.50	0.70
1:A:115:GLU:O	1:B:221:ASP:CG[5_454]	1.50	0.70
1:A:116:LEU:CA	1:B:221:ASP:CG[5_454]	1.50	0.70
1:A:116:LEU:O	1:B:218:ASN:O[5_454]	1.50	0.70
1:A:120:ILE:CG1	1:B:219:ALA:N[5_454]	1.50	0.70
1:A:123:ALA:CA	1:B:177:PHE:CZ[5_454]	1.50	0.70
1:A:144:ASN:N	1:B:278:ILE:CG1[8_664]	1.50	0.70
1:A:147:LEU:C	1:B:164:PRO:CA[5_454]	1.50	0.70
1:A:147:LEU:C	1:B:163:GLY:C[5_454]	1.50	0.70
1:A:148:ASP:N	1:B:164:PRO:C[5_454]	1.50	0.70
1:A:153:LYS:CE	1:B:284:GLN:NE2[5_454]	1.50	0.70
1:A:155:PRO:CA	1:B:198:ASP:OD1[5_454]	1.50	0.70
1:A:157:TYR:CA	1:B:239:ASP:N[5_454]	1.50	0.70
1:A:159:TYR:O	1:A:475:HIS:CE1[3_675]	1.50	0.70
1:A:235:PHE:C	1:A:454:ASP:OD1[6_574]	1.50	0.70
1:A:240:TYR:CE2	1:A:295:GLN:NE2[5_454]	1.50	0.70
1:A:252:VAL:CB	1:A:303:ILE:N[5_454]	1.50	0.70
1:A:252:VAL:CG2	1:A:303:ILE:CB[5_454]	1.50	0.70
1:A:260:PHE:CA	1:B:212:TYR:O[3_675]	1.50	0.70
1:A:262:GLN:CA	6:A:851:HOH:O[3_675]	1.50	0.70
1:A:325:PRO:N	1:A:326:ARG:CB[8_664]	1.50	0.70
1:A:341:PRO:C	1:A:364:THR:CA[4_465]	1.50	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:343:LEU:CD2	1:A:367:GLN:O[4_465]	1.50	0.70
1:A:370:THR:C	1:A:371:LYS:O[3_665]	1.50	0.70
1:A:371:LYS:CA	1:A:376:ALA:N[3_665]	1.50	0.70
1:A:381:ARG:N	1:A:402:TYR:O[4_465]	1.50	0.70
1:A:388:ARG:C	6:A:856:HOH:O[4_465]	1.50	0.70
1:A:396:VAL:CB	1:A:441:LEU:CD2[4_465]	1.50	0.70
1:A:402:TYR:CB	1:A:439:GLN:NE2[4_465]	1.50	0.70
1:A:432:LYS:CB	1:A:433:ALA:N[3_665]	1.50	0.70
1:B:100:TYR:O	1:B:398:VAL:O[3_675]	1.50	0.70
1:B:102:LYS:CA	1:B:401:MET:C[3_675]	1.50	0.70
1:B:105:VAL:C	1:B:402:TYR:O[3_675]	1.50	0.70
1:B:111:LYS:CB	1:B:430:LEU:C[3_675]	1.50	0.70
1:B:112:ILE:C	1:B:429:GLU:CA[3_675]	1.50	0.70
1:B:320:THR:OG1	1:B:446:GLN:NE2[3_675]	1.50	0.70
1:B:328:GLY:O	1:B:469:ASP:O[2_475]	1.50	0.70
1:B:333:ALA:O	1:B:365:ALA:O[3_675]	1.50	0.70
1:B:377:PHE:CE1	6:B:873:HOH:O[4_365]	1.50	0.70
1:A:99:ASP:N	1:A:450:LYS:N[4_465]	1.51	0.69
1:A:105:VAL:CG1	1:A:465:LYS:CB[3_675]	1.51	0.69
1:A:112:ILE:CA	1:A:275:ILE:CG1[8_664]	1.51	0.69
1:A:112:ILE:CB	1:B:258:VAL:O[8_664]	1.51	0.69
1:A:117:ILE:C	1:B:222:ILE:N[5_454]	1.51	0.69
1:A:134:ARG:N	1:A:390:PHE:CE1[3_665]	1.51	0.69
1:A:138:PHE:N	1:B:454:ASP:N[5_454]	1.51	0.69
1:A:139:SER:OG	1:A:276:GLY:C[8_664]	1.51	0.69
1:A:140:HIS:ND1	1:B:217:GLU:OE1[5_454]	1.51	0.69
1:A:140:HIS:CG	1:B:217:GLU:CG[5_454]	1.51	0.69
1:A:140:HIS:N	1:A:471:GLN:NE2[3_675]	1.51	0.69
1:A:143:MET:N	1:B:214:TYR:N[5_454]	1.51	0.69
1:A:145:GLN:CG	1:B:214:TYR:CD2[5_454]	1.51	0.69
1:A:150:TYR:CA	1:B:196:THR:CB[5_454]	1.51	0.69
1:A:153:LYS:NZ	1:B:284:GLN:CG[5_454]	1.51	0.69
1:A:153:LYS:CE	1:B:284:GLN:CG[5_454]	1.51	0.69
1:A:156:PHE:CG	1:B:197:ASP:OD1[5_454]	1.51	0.69
1:A:183:LEU:CA	1:B:234:ILE:O[5_454]	1.51	0.69
1:A:191:LEU:CA	1:B:243:MET:CG[5_454]	1.51	0.69
1:A:205:ASP:O	1:A:442:ILE:O[6_574]	1.51	0.69
1:A:214:TYR:CB	1:A:449:ARG:NH2[6_574]	1.51	0.69
1:A:216:VAL:O	1:A:216:VAL:CB[6_574]	1.51	0.69
1:A:230:ASN:C	1:B:245:SER:N[5_454]	1.51	0.69
1:A:236:SER:N	1:A:454:ASP:OD1[6_574]	1.51	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:251:VAL:O	1:A:300:ARG:CA[5_454]	1.51	0.69
1:A:258:VAL:N	1:A:331:LYS:CB[8_664]	1.51	0.69
1:A:260:PHE:CA	1:B:212:TYR:CA[3_675]	1.51	0.69
1:A:262:GLN:NE2	1:B:209:ASP:N[3_675]	1.51	0.69
1:A:264:LYS:CA	1:A:475:HIS:NE2[5_454]	1.51	0.69
1:A:266:ILE:CB	1:A:475:HIS:C[5_454]	1.51	0.69
1:A:269:PHE:N	1:A:308:PRO:CG[8_664]	1.51	0.69
1:A:272:SER:OG	1:B:460:PHE:CD2[3_675]	1.51	0.69
1:A:277:LYS:CE	1:A:337:SER:CA[8_664]	1.51	0.69
1:A:278:ILE:N	1:A:473:HIS:CD2[5_454]	1.51	0.69
1:A:329:TYR:C	4:B:812:GOL:O3[5_454]	1.51	0.69
1:A:330:PRO:CG	1:B:208:LEU:CG[5_454]	1.51	0.69
1:A:338:THR:OG1	6:A:859:HOH:O[3_665]	1.51	0.69
1:A:347:GLN:NE2	1:A:361:LEU:N[4_465]	1.51	0.69
1:A:379:GLY:O	1:A:406:PHE:CG[4_465]	1.51	0.69
1:A:392:GLY:N	1:A:407:LEU:CB[4_465]	1.51	0.69
1:A:400:PHE:CA	4:A:814:GOL:C1[3_665]	1.51	0.69
1:A:428:GLY:N	1:A:432:LYS:O[2_575]	1.51	0.69
1:B:100:TYR:N	1:B:397:ASP:C[3_675]	1.51	0.69
1:B:101:ASP:CA	1:B:400:PHE:CB[3_675]	1.51	0.69
1:B:169:MET:SD	1:B:263:VAL:C[4_365]	1.51	0.69
1:B:214:TYR:CA	1:B:278:ILE:CG1[4_365]	1.51	0.69
1:B:222:ILE:N	1:B:262:GLN:CA[4_365]	1.51	0.69
1:B:299:ASP:CA	1:B:299:ASP:CA[2_475]	1.51	0.69
1:B:300:ARG:CG	1:B:301:THR:CA[2_475]	1.51	0.69
1:B:322:ASP:CB	1:B:445:HIS:N[3_675]	1.51	0.69
1:B:329:TYR:CB	1:B:471:GLN:N[2_475]	1.51	0.69
1:B:335:LEU:CA	1:B:369:LYS:O[3_675]	1.51	0.69
1:A:90:VAL:C	1:A:449:ARG:NH1[4_465]	1.52	0.68
1:A:91:GLN:CA	1:A:449:ARG:NE[4_465]	1.52	0.68
1:A:92:THR:C	1:A:166:SER:CA[8_664]	1.52	0.68
1:A:94:SER:N	1:A:214:TYR:CZ[8_664]	1.52	0.68
1:A:99:ASP:C	1:A:201:TYR:CB[8_664]	1.52	0.68
1:A:100:TYR:N	1:A:447:ALA:O[4_465]	1.52	0.68
1:A:110:SER:OG	1:B:279:SER:OG[8_664]	1.52	0.68
1:A:115:GLU:OE1	1:B:361:LEU:C[5_454]	1.52	0.68
1:A:140:HIS:O	1:A:471:GLN:CB[3_675]	1.52	0.68
1:A:141:ARG:C	1:B:275:ILE:CA[8_664]	1.52	0.68
1:A:148:ASP:OD1	1:B:165:SER:C[5_454]	1.52	0.68
1:A:149:ALA:CB	1:B:272:SER:CB[8_664]	1.52	0.68
1:A:152:ASN:O	1:B:199:GLU:OE2[5_454]	1.52	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:154:LYS:CG	1:B:199:GLU:C[5_454]	1.52	0.68
1:A:154:LYS:CB	1:B:199:GLU:N[5_454]	1.52	0.68
1:A:156:PHE:CD1	1:B:236:SER:OG[5_454]	1.52	0.68
1:A:179:PHE:CG	1:B:459:GLU:N[5_454]	1.52	0.68
1:A:188:ASN:N	1:B:235:PHE:CZ[5_454]	1.52	0.68
1:A:200:LYS:NZ	1:A:339:PHE:CE2[8_664]	1.52	0.68
1:A:203:TRP:CZ3	1:A:311:ILE:CG2[8_664]	1.52	0.68
1:A:205:ASP:C	1:A:443:ALA:C[6_574]	1.52	0.68
1:A:215:ALA:O	1:A:217:GLU:OE2[6_574]	1.52	0.68
1:A:232:THR:CG2	1:B:243:MET:O[5_454]	1.52	0.68
1:A:240:TYR:CA	1:A:455:GLU:CD[6_574]	1.52	0.68
1:A:245:SER:OG	1:A:287:PRO:CB[5_454]	1.52	0.68
1:A:245:SER:C	1:A:293:PHE:CE2[5_454]	1.52	0.68
1:A:246:GLY:N	1:A:293:PHE:CD2[5_454]	1.52	0.68
1:A:249:LYS:N	1:A:290:SER:CA[5_454]	1.52	0.68
1:A:260:PHE:CZ	1:A:306:LEU:CD2[8_664]	1.52	0.68
1:A:261:ASN:CA	1:A:305:CYS:C[8_664]	1.52	0.68
1:A:262:GLN:NE2	1:A:331:LYS:C[8_664]	1.52	0.68
1:A:267:PHE:C	1:A:308:PRO:O[8_664]	1.52	0.68
1:A:279:SER:CB	1:A:472:HIS:N[5_454]	1.52	0.68
1:A:314:ASP:CA	1:A:316:TYR:CD2[8_664]	1.52	0.68
1:A:319:MET:CA	1:A:320:THR:CA[8_664]	1.52	0.68
1:A:340:PHE:C	1:A:364:THR:CG2[4_465]	1.52	0.68
1:A:344:GLN:CD	1:A:371:LYS:CE[4_465]	1.52	0.68
1:A:401:MET:N	4:A:814:GOL:C1[3_665]	1.52	0.68
1:A:427:THR:C	1:A:430:LEU:O[4_465]	1.52	0.68
1:A:467:SER:CA	1:B:249:LYS:N[5_454]	1.52	0.68
1:A:470:PHE:CA	6:A:904:HOH:O[5_454]	1.52	0.68
1:B:161:GLY:C	6:A:903:HOH:O[5_454]	1.52	0.68
1:B:202:LEU:N	6:A:905:HOH:O[5_454]	1.52	0.68
1:B:106:ARG:NE	1:B:340:PHE:CD1[3_675]	1.52	0.68
1:B:111:LYS:CG	1:B:430:LEU:CB[3_675]	1.52	0.68
1:B:112:ILE:CB	1:B:428:GLY:O[3_675]	1.52	0.68
1:B:162:ARG:CD	1:B:268:GLY:C[4_365]	1.52	0.68
1:B:221:ASP:C	1:B:262:GLN:C[4_365]	1.52	0.68
1:B:222:ILE:CB	1:B:261:ASN:O[4_365]	1.52	0.68
1:B:316:TYR:C	1:B:361:LEU:C[3_675]	1.52	0.68
1:B:346:ALA:O	1:B:347:GLN:CD[3_675]	1.52	0.68
1:A:96:LYS:O	1:A:446:GLN:N[4_465]	1.53	0.67
1:A:102:LYS:CA	1:A:451:GLU:CA[4_465]	1.53	0.67
1:A:109:SER:CB	6:A:842:HOH:O[8_664]	1.53	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:SER:O	1:A:471:GLN:OE1[3_675]	1.53	0.67
1:A:112:ILE:CG2	1:B:220:LYS:CG[5_454]	1.53	0.67
1:A:114:LYS:CB	1:B:445:HIS:O[5_454]	1.53	0.67
1:A:121:GLU:N	1:B:222:ILE:CG2[5_454]	1.53	0.67
1:A:131:PHE:CE1	1:A:381:ARG:NH1[3_665]	1.53	0.67
1:A:137:PHE:CD2	1:A:273:ASP:OD1[8_664]	1.53	0.67
1:A:140:HIS:CG	1:B:217:GLU:OE2[5_454]	1.53	0.67
1:A:140:HIS:CE1	1:B:217:GLU:CD[5_454]	1.53	0.67
1:A:142:ASP:CA	1:B:275:ILE:C[8_664]	1.53	0.67
1:A:144:ASN:C	1:B:214:TYR:CB[5_454]	1.53	0.67
1:A:187:PHE:CB	1:B:235:PHE:O[5_454]	1.53	0.67
1:A:190:PRO:CG	1:B:241:MET:N[5_454]	1.53	0.67
1:A:191:LEU:O	1:B:242:GLY:C[5_454]	1.53	0.67
1:A:192:VAL:CG2	1:A:244:SER:O[5_454]	1.53	0.67
1:A:205:ASP:CG	1:A:443:ALA:CA[6_574]	1.53	0.67
1:A:207:THR:OG1	1:A:224:ALA:O[6_574]	1.53	0.67
1:A:209:ASP:OD1	6:A:839:HOH:O[6_574]	1.53	0.67
1:A:238:LEU:CD1	1:A:451:GLU:O[6_574]	1.53	0.67
1:A:248:TYR:CB	1:A:297:PHE:CE2[5_454]	1.53	0.67
1:A:260:PHE:N	1:B:212:TYR:N[3_675]	1.53	0.67
1:A:268:GLY:C	1:A:308:PRO:CG[8_664]	1.53	0.67
1:A:276:GLY:O	1:A:471:GLN:NE2[5_454]	1.53	0.67
1:A:277:LYS:O	6:A:910:HOH:O[5_454]	1.53	0.67
1:A:277:LYS:NZ	1:B:455:GLU:N[3_675]	1.53	0.67
1:A:285:ALA:CB	1:A:318:ARG:CB[8_664]	1.53	0.67
1:A:289:PHE:CE2	1:A:322:ASP:CG[8_664]	1.53	0.67
1:A:321:ARG:O	1:A:323:VAL:CG1[8_664]	1.53	0.67
1:A:331:LYS:O	1:B:209:ASP:CA[5_454]	1.53	0.67
1:A:365:ALA:C	1:A:402:TYR:CG[3_665]	1.53	0.67
1:A:369:LYS:NZ	1:A:438:LEU:CG[3_665]	1.53	0.67
1:A:371:LYS:CG	1:A:375:HIS:O[3_665]	1.53	0.67
1:A:374:LYS:O	1:A:375:HIS:CB[4_465]	1.53	0.67
1:A:391:GLY:C	1:A:407:LEU:N[4_465]	1.53	0.67
1:A:408:GLU:O	6:B:895:HOH:O[5_454]	1.53	0.67
1:A:427:THR:OG1	1:A:435:ILE:CB[2_575]	1.53	0.67
1:A:428:GLY:C	1:A:430:LEU:CA[4_465]	1.53	0.67
1:A:429:GLU:N	1:A:432:LYS:CA[2_575]	1.53	0.67
1:A:447:ALA:CB	1:B:256:LYS:NZ[6_574]	1.53	0.67
1:A:455:GLU:CG	1:A:464:ARG:N[2_475]	1.53	0.67
1:A:470:PHE:O	6:A:842:HOH:O[5_454]	1.53	0.67
1:B:207:THR:N	6:A:835:HOH:O[5_454]	1.53	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:249:LYS:CG	6:A:894:HOH:O[5_454]	1.53	0.67
1:B:109:SER:OG	1:B:434:LEU:CG[3_675]	1.53	0.67
1:B:138:PHE:CD1	1:B:376:ALA:CB[3_675]	1.53	0.67
1:B:214:TYR:CD1	1:B:274:CYS:O[4_365]	1.53	0.67
1:B:215:ALA:CA	1:B:260:PHE:CZ[4_365]	1.53	0.67
1:B:308:PRO:CB	1:B:370:THR:CB[3_675]	1.53	0.67
1:B:309:CYS:C	1:B:371:LYS:CG[3_675]	1.53	0.67
1:B:315:PRO:CD	1:B:359:ILE:C[3_675]	1.53	0.67
1:B:338:THR:CA	1:B:376:ALA:N[3_675]	1.53	0.67
1:A:89:THR:C	1:A:164:PRO:CB[8_664]	1.54	0.66
1:A:92:THR:C	1:A:166:SER:C[8_664]	1.54	0.66
1:A:93:SER:N	1:A:221:ASP:OD1[4_465]	1.54	0.66
1:A:94:SER:N	1:A:221:ASP:CG[4_465]	1.54	0.66
1:A:102:LYS:N	1:A:451:GLU:CA[4_465]	1.54	0.66
1:A:102:LYS:CB	1:A:452:VAL:N[4_465]	1.54	0.66
1:A:108:GLY:CA	1:A:297:PHE:C[3_675]	1.54	0.66
1:A:108:GLY:N	1:A:298:ARG:N[3_675]	1.54	0.66
1:A:115:GLU:O	1:B:221:ASP:OD1[5_454]	1.54	0.66
1:A:119:ARG:NH1	1:B:269:PHE:CG[8_664]	1.54	0.66
1:A:129:HIS:O	1:B:460:PHE:CE2[5_454]	1.54	0.66
1:A:138:PHE:C	1:A:274:CYS:SG[8_664]	1.54	0.66
1:A:142:ASP:N	1:B:213:SER:OG[5_454]	1.54	0.66
1:A:157:TYR:CB	1:B:238:LEU:C[5_454]	1.54	0.66
1:A:159:TYR:CB	1:A:265:GLY:C[8_664]	1.54	0.66
1:A:179:PHE:C	1:B:458:LYS:O[5_454]	1.54	0.66
1:A:186:VAL:N	1:B:233:PHE:O[5_454]	1.54	0.66
1:A:190:PRO:CA	1:B:241:MET:N[5_454]	1.54	0.66
1:A:199:GLU:O	1:A:450:LYS:CE[6_574]	1.54	0.66
1:A:203:TRP:O	1:A:338:THR:OG1[8_664]	1.54	0.66
1:A:246:GLY:O	1:A:289:PHE:O[5_454]	1.54	0.66
1:A:247:PHE:CD1	1:A:294:PRO:CA[5_454]	1.54	0.66
1:A:265:GLY:N	1:A:475:HIS:NE2[5_454]	1.54	0.66
1:A:266:ILE:CA	1:A:475:HIS:CB[5_454]	1.54	0.66
1:A:270:THR:C	1:B:461:MET:CG[3_675]	1.54	0.66
1:A:273:ASP:O	1:B:457:VAL:CG2[3_675]	1.54	0.66
1:A:276:GLY:N	1:B:220:LYS:NZ[3_675]	1.54	0.66
1:A:291:ASN:O	1:A:292:SER:CB[5_454]	1.54	0.66
1:A:397:ASP:CB	1:A:438:LEU:CB[4_465]	1.54	0.66
1:A:397:ASP:CG	1:A:438:LEU:CB[4_465]	1.54	0.66
1:A:400:PHE:C	4:A:814:GOL:O1[3_665]	1.54	0.66
1:A:408:GLU:CD	1:B:230:ASN:CG[5_454]	1.54	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:412:LYS:CB	1:A:424:ALA:N[3_665]	1.54	0.66
1:A:430:LEU:CD1	1:A:433:ALA:O[4_465]	1.54	0.66
1:A:430:LEU:C	1:A:432:LYS:O[4_465]	1.54	0.66
1:B:226:GLY:CA	6:A:869:HOH:O[5_454]	1.54	0.66
1:B:105:VAL:CG2	1:B:403:LEU:C[3_675]	1.54	0.66
1:B:108:GLY:N	1:B:406:PHE:CB[3_675]	1.54	0.66
1:B:109:SER:CA	1:B:434:LEU:O[3_675]	1.54	0.66
1:B:169:MET:CA	1:B:267:PHE:CB[4_365]	1.54	0.66
1:B:220:LYS:N	1:B:260:PHE:C[4_365]	1.54	0.66
1:B:309:CYS:C	1:B:371:LYS:CB[3_675]	1.54	0.66
1:A:92:THR:N	1:A:214:TYR:CG[8_664]	1.55	0.65
1:A:100:TYR:CE1	1:A:204:LYS:N[8_664]	1.55	0.65
1:A:101:ASP:N	1:A:201:TYR:CG[8_664]	1.55	0.65
1:A:102:LYS:CD	1:A:452:VAL:C[4_465]	1.55	0.65
1:A:109:SER:C	1:A:471:GLN:N[3_675]	1.55	0.65
1:A:115:GLU:CB	1:B:319:MET:CE[8_664]	1.55	0.65
1:A:119:ARG:NE	1:B:162:ARG:NE[5_454]	1.55	0.65
1:A:123:ALA:N	1:B:177:PHE:CE1[5_454]	1.55	0.65
1:A:126:GLN:O	1:B:227:PHE:CG[5_454]	1.55	0.65
1:A:131:PHE:CE1	6:B:857:HOH:O[5_454]	1.55	0.65
1:A:140:HIS:ND1	1:B:217:GLU:CG[5_454]	1.55	0.65
1:A:144:ASN:N	1:B:278:ILE:CD1[8_664]	1.55	0.65
1:A:145:GLN:CG	1:B:214:TYR:CE2[5_454]	1.55	0.65
1:A:147:LEU:CA	1:B:164:PRO:CB[5_454]	1.55	0.65
1:A:150:TYR:N	1:B:196:THR:OG1[5_454]	1.55	0.65
1:A:151:GLU:O	5:B:817:TRP:CA[5_454]	1.55	0.65
1:A:180:THR:C	1:B:462:THR:C[5_454]	1.55	0.65
1:A:184:GLN:N	1:B:233:PHE:CZ[5_454]	1.55	0.65
1:A:206:LEU:CB	1:A:446:GLN:N[6_574]	1.55	0.65
1:A:229:ILE:N	6:B:884:HOH:O[5_454]	1.55	0.65
1:A:238:LEU:CD2	1:A:465:LYS:CD[5_454]	1.55	0.65
1:A:239:ASP:OD2	1:A:455:GLU:O[6_574]	1.55	0.65
1:A:259:THR:CA	1:B:208:LEU:O[3_675]	1.55	0.65
1:A:261:ASN:OD1	1:B:197:ASP:OD1[3_675]	1.55	0.65
1:A:265:GLY:N	1:A:475:HIS:CD2[5_454]	1.55	0.65
1:A:267:PHE:N	1:A:307:ILE:CG2[8_664]	1.55	0.65
1:A:269:PHE:O	1:A:308:PRO:CG[8_664]	1.55	0.65
1:A:275:ILE:O	1:B:217:GLU:OE2[3_675]	1.55	0.65
1:A:321:ARG:CA	1:A:323:VAL:CG1[8_664]	1.55	0.65
1:A:331:LYS:N	4:B:812:GOL:O2[5_454]	1.55	0.65
1:A:365:ALA:O	1:A:402:TYR:CE1[3_665]	1.55	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:375:HIS:ND1	1:A:375:HIS:CD2[4_465]	1.55	0.65
1:A:432:LYS:CG	1:A:433:ALA:CB[3_665]	1.55	0.65
1:B:97:GLY:CA	1:B:347:GLN:NE2[3_675]	1.55	0.65
1:B:101:ASP:C	1:B:400:PHE:O[3_675]	1.55	0.65
1:B:103:LEU:CD2	1:B:402:TYR:CE1[3_675]	1.55	0.65
1:B:107:PHE:CZ	1:B:340:PHE:CE2[3_675]	1.55	0.65
1:B:162:ARG:CG	1:B:269:PHE:O[4_365]	1.55	0.65
1:B:167:GLU:N	1:B:277:LYS:O[4_365]	1.55	0.65
1:B:221:ASP:C	1:B:262:GLN:N[4_365]	1.55	0.65
1:B:313:GLN:O	1:B:363:ASP:OD2[3_675]	1.55	0.65
1:B:317:PHE:CG	1:B:363:ASP:O[3_675]	1.55	0.65
1:B:322:ASP:C	1:B:447:ALA:N[3_675]	1.55	0.65
1:B:326:ARG:NH2	1:B:448:ARG:CD[3_675]	1.55	0.65
1:B:339:PHE:CB	1:B:344:GLN:CG[3_675]	1.55	0.65
1:A:96:LYS:CB	1:A:210:GLN:OE1[8_664]	1.56	0.64
1:A:98:ILE:N	1:A:206:LEU:CG[8_664]	1.56	0.64
1:A:116:LEU:C	1:B:221:ASP:CB[5_454]	1.56	0.64
1:A:117:ILE:C	1:B:262:GLN:CB[8_664]	1.56	0.64
1:A:118:ASN:N	1:B:262:GLN:C[8_664]	1.56	0.64
1:A:127:ARG:O	1:B:227:PHE:CB[5_454]	1.56	0.64
1:A:127:ARG:N	1:B:227:PHE:CB[5_454]	1.56	0.64
1:A:144:ASN:OD1	1:B:269:PHE:CZ[8_664]	1.56	0.64
1:A:149:ALA:CB	1:B:196:THR:O[5_454]	1.56	0.64
1:A:155:PRO:C	1:B:198:ASP:OD2[5_454]	1.56	0.64
1:A:187:PHE:CE2	1:B:195:MET:SD[5_454]	1.56	0.64
1:A:230:ASN:CA	1:B:245:SER:CA[5_454]	1.56	0.64
1:A:248:TYR:C	1:A:290:SER:CB[5_454]	1.56	0.64
1:A:270:THR:OG1	1:B:461:MET:CB[3_675]	1.56	0.64
1:A:274:CYS:N	1:B:457:VAL:CG2[3_675]	1.56	0.64
1:A:277:LYS:CB	1:A:336:HIS:O[8_664]	1.56	0.64
1:A:277:LYS:CG	1:A:336:HIS:C[8_664]	1.56	0.64
1:A:306:LEU:CG	1:B:212:TYR:CE1[5_454]	1.56	0.64
1:A:316:TYR:N	1:A:316:TYR:CA[8_664]	1.56	0.64
1:A:317:PHE:CE1	1:A:475:HIS:O[3_675]	1.56	0.64
1:A:334:LEU:O	1:A:473:HIS:ND1[3_675]	1.56	0.64
1:A:343:LEU:CB	1:A:367:GLN:O[4_465]	1.56	0.64
1:A:375:HIS:CG	1:A:375:HIS:NE2[2_575]	1.56	0.64
1:A:382:ASP:O	1:A:401:MET:CG[4_465]	1.56	0.64
1:A:395:ASP:N	1:A:441:LEU:CA[4_465]	1.56	0.64
1:A:399:SER:O	1:A:439:GLN:CD[4_465]	1.56	0.64
1:A:428:GLY:O	1:A:432:LYS:CA[2_575]	1.56	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:431:LYS:CA	1:A:431:LYS:C[4_465]	1.56	0.64
1:A:468:PHE:CZ	1:B:247:PHE:CD1[5_454]	1.56	0.64
1:B:95:ALA:O	1:B:97:GLY:O[4_365]	1.56	0.64
1:B:100:TYR:OH	1:B:343:LEU:O[3_675]	1.56	0.64
1:B:103:LEU:CA	1:B:402:TYR:N[3_675]	1.56	0.64
1:B:107:PHE:CA	1:B:406:PHE:CE2[3_675]	1.56	0.64
1:B:112:ILE:CA	1:B:432:LYS:N[3_675]	1.56	0.64
1:B:113:ASP:N	1:B:429:GLU:C[3_675]	1.56	0.64
1:B:116:LEU:CB	1:B:432:LYS:NZ[3_675]	1.56	0.64
1:B:162:ARG:NH1	1:B:268:GLY:C[4_365]	1.56	0.64
1:B:167:GLU:O	1:B:281:PRO:CG[4_365]	1.56	0.64
1:B:220:LYS:CA	1:B:259:THR:CA[4_365]	1.56	0.64
1:B:310:ALA:O	1:B:371:LYS:CD[3_675]	1.56	0.64
1:B:315:PRO:N	1:B:359:ILE:O[3_675]	1.56	0.64
1:B:320:THR:N	1:B:446:GLN:NE2[3_675]	1.56	0.64
1:B:329:TYR:CG	1:B:471:GLN:CB[2_475]	1.56	0.64
1:B:334:LEU:C	1:B:369:LYS:CA[3_675]	1.56	0.64
1:B:338:THR:CB	1:B:376:ALA:C[3_675]	1.56	0.64
1:B:339:PHE:CE1	1:B:357:SER:CA[3_675]	1.56	0.64
1:A:88:TRP:C	1:A:163:GLY:CA[8_664]	1.57	0.63
1:A:99:ASP:CB	1:A:449:ARG:C[4_465]	1.57	0.63
1:A:107:PHE:O	1:A:298:ARG:O[3_675]	1.57	0.63
1:A:113:ASP:O	1:B:258:VAL:CB[8_664]	1.57	0.63
1:A:113:ASP:N	1:B:258:VAL:CB[8_664]	1.57	0.63
1:A:130:HIS:CB	1:A:390:PHE:CD2[3_665]	1.57	0.63
1:A:142:ASP:OD1	1:B:276:GLY:N[8_664]	1.57	0.63
1:A:145:GLN:CG	1:B:274:CYS:N[8_664]	1.57	0.63
1:A:152:ASN:ND2	1:B:200:LYS:CE[5_454]	1.57	0.63
1:A:156:PHE:CE2	1:B:271:ASP:CG[8_664]	1.57	0.63
1:A:158:LEU:O	6:B:826:HOH:O[5_454]	1.57	0.63
1:A:158:LEU:CB	1:B:239:ASP:CB[5_454]	1.57	0.63
1:A:167:GLU:C	1:A:168:ALA:N[6_574]	1.57	0.63
1:A:187:PHE:CE1	1:A:271:ASP:CG[8_664]	1.57	0.63
1:A:206:LEU:O	1:A:444:GLU:O[6_574]	1.57	0.63
1:A:207:THR:CG2	1:A:448:ARG:CD[6_574]	1.57	0.63
1:A:213:SER:N	1:A:220:LYS:C[6_574]	1.57	0.63
1:A:213:SER:O	1:A:220:LYS:N[6_574]	1.57	0.63
1:A:236:SER:N	1:A:454:ASP:OD2[6_574]	1.57	0.63
1:A:240:TYR:N	1:A:464:ARG:O[5_454]	1.57	0.63
1:A:247:PHE:CD1	1:A:293:PHE:C[5_454]	1.57	0.63
1:A:253:LYS:C	1:A:301:THR:CG2[5_454]	1.57	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:258:VAL:CG2	1:A:321:ARG:CG[8_664]	1.57	0.63
1:A:262:GLN:CD	6:A:820:HOH:O[8_664]	1.57	0.63
1:A:262:GLN:O	1:A:307:ILE:CG1[8_664]	1.57	0.63
1:A:279:SER:O	1:A:472:HIS:N[5_454]	1.57	0.63
1:A:285:ALA:CA	1:A:318:ARG:CB[8_664]	1.57	0.63
1:A:304:GLN:NE2	1:B:208:LEU:O[5_454]	1.57	0.63
1:A:305:CYS:N	1:B:238:LEU:CD1[5_454]	1.57	0.63
1:A:321:ARG:NE	1:A:472:HIS:CE1[3_675]	1.57	0.63
1:A:347:GLN:NE2	1:A:360:PHE:C[4_465]	1.57	0.63
1:A:355:PRO:CA	1:A:355:PRO:CB[6_574]	1.57	0.63
1:A:387:HIS:CB	1:A:413:LEU:CD1[4_465]	1.57	0.63
1:A:388:ARG:CD	1:A:414:GLU:N[4_465]	1.57	0.63
1:A:393:ASN:N	1:A:406:PHE:O[4_465]	1.57	0.63
1:A:409:ASP:OD2	1:A:422:SER:OG[3_665]	1.57	0.63
1:A:426:LEU:N	1:A:436:GLU:OE1[2_575]	1.57	0.63
1:A:430:LEU:CB	1:A:433:ALA:CA[4_465]	1.57	0.63
1:A:445:HIS:O	6:A:900:HOH:O[3_665]	1.57	0.63
1:A:455:GLU:CD	1:A:464:ARG:CA[2_475]	1.57	0.63
1:A:458:LYS:NZ	1:A:462:THR:CG2[6_574]	1.57	0.63
1:A:468:PHE:CE1	1:B:247:PHE:CG[5_454]	1.57	0.63
1:B:102:LYS:C	1:B:401:MET:CA[3_675]	1.57	0.63
1:B:137:PHE:CD1	1:B:374:LYS:CG[3_675]	1.57	0.63
1:B:165:SER:O	1:B:277:LYS:CD[4_365]	1.57	0.63
1:B:176:PRO:O	1:B:374:LYS:NZ[3_675]	1.57	0.63
1:B:197:ASP:C	1:B:272:SER:CA[4_365]	1.57	0.63
1:B:215:ALA:C	1:B:260:PHE:CE1[4_365]	1.57	0.63
1:B:219:ALA:CA	1:B:261:ASN:N[4_365]	1.57	0.63
1:B:299:ASP:C	1:B:300:ARG:N[2_475]	1.57	0.63
1:B:300:ARG:NH1	1:B:301:THR:O[2_475]	1.57	0.63
1:B:328:GLY:O	1:B:469:ASP:CA[2_475]	1.57	0.63
1:A:88:TRP:O	1:A:163:GLY:N[8_664]	1.58	0.62
1:A:89:THR:CA	1:A:164:PRO:CD[8_664]	1.58	0.62
1:A:92:THR:N	1:A:214:TYR:CD2[8_664]	1.58	0.62
1:A:99:ASP:O	1:A:450:LYS:N[4_465]	1.58	0.62
1:A:100:TYR:OH	1:A:204:LYS:N[8_664]	1.58	0.62
1:A:107:PHE:C	1:A:283:ILE:CD1[8_664]	1.58	0.62
1:A:108:GLY:C	1:A:283:ILE:CD1[8_664]	1.58	0.62
1:A:117:ILE:CG1	1:B:259:THR:N[8_664]	1.58	0.62
1:A:118:ASN:C	1:B:262:GLN:O[8_664]	1.58	0.62
1:A:128:PRO:CG	1:B:223:ILE:CA[5_454]	1.58	0.62
1:A:134:ARG:CZ	1:A:390:PHE:CA[3_665]	1.58	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:136:ILE:C	1:B:453:THR:OG1[5_454]	1.58	0.62
1:A:142:ASP:CB	1:B:210:GLN:O[5_454]	1.58	0.62
1:A:145:GLN:O	1:B:273:ASP:CA[8_664]	1.58	0.62
1:A:150:TYR:CE1	1:B:194:GLN:CB[5_454]	1.58	0.62
1:A:159:TYR:O	1:A:475:HIS:ND1[3_675]	1.58	0.62
1:A:183:LEU:O	1:B:235:PHE:CB[5_454]	1.58	0.62
1:A:191:LEU:O	1:B:242:GLY:O[5_454]	1.58	0.62
1:A:239:ASP:C	1:A:464:ARG:CA[5_454]	1.58	0.62
1:A:243:MET:CE	1:A:462:THR:O[5_454]	1.58	0.62
1:A:263:VAL:CA	1:A:307:ILE:CB[8_664]	1.58	0.62
1:A:278:ILE:C	1:A:473:HIS:ND1[5_454]	1.58	0.62
1:A:283:ILE:N	1:A:298:ARG:O[5_454]	1.58	0.62
1:A:284:GLN:CD	1:A:315:PRO:CD[8_664]	1.58	0.62
1:A:314:ASP:N	1:A:316:TYR:OH[8_664]	1.58	0.62
1:A:316:TYR:CA	1:A:316:TYR:CB[8_664]	1.58	0.62
1:A:317:PHE:CA	1:A:474:HIS:NE2[3_675]	1.58	0.62
1:A:329:TYR:CZ	1:A:329:TYR:OH[5_454]	1.58	0.62
1:A:368:ILE:CG2	1:A:398:VAL:CB[3_665]	1.58	0.62
1:A:369:LYS:O	1:A:372:VAL:CA[3_665]	1.58	0.62
1:A:371:LYS:N	1:A:374:LYS:O[2_575]	1.58	0.62
1:A:373:ASN:CA	1:A:373:ASN:CA[4_465]	1.58	0.62
1:A:384:ILE:N	1:A:440:PRO:CB[2_575]	1.58	0.62
1:A:397:ASP:O	1:A:438:LEU:O[4_465]	1.58	0.62
1:A:431:LYS:O	6:A:844:HOH:O[4_465]	1.58	0.62
1:A:431:LYS:C	1:A:431:LYS:CB[3_665]	1.58	0.62
1:A:431:LYS:N	6:A:844:HOH:O[2_575]	1.58	0.62
1:B:248:TYR:CD2	6:A:836:HOH:O[5_454]	1.58	0.62
1:B:293:PHE:O	6:A:863:HOH:O[5_454]	1.58	0.62
1:B:95:ALA:N	1:B:95:ALA:N[3_675]	1.58	0.62
1:B:104:ILE:N	1:B:402:TYR:CA[3_675]	1.58	0.62
1:B:110:SER:CA	1:B:434:LEU:N[3_675]	1.58	0.62
1:B:112:ILE:C	1:B:428:GLY:O[3_675]	1.58	0.62
1:B:164:PRO:CG	1:B:270:THR:C[4_365]	1.58	0.62
1:B:167:GLU:CG	1:B:277:LYS:O[4_365]	1.58	0.62
1:B:219:ALA:CA	1:B:260:PHE:O[4_365]	1.58	0.62
1:B:326:ARG:NH1	1:B:448:ARG:CZ[3_675]	1.58	0.62
1:B:336:HIS:O	1:B:372:VAL:CA[3_675]	1.58	0.62
1:B:337:SER:CA	1:B:371:LYS:O[3_675]	1.58	0.62
1:A:101:ASP:OD2	1:B:253:LYS:N[8_664]	1.59	0.61
1:A:105:VAL:N	1:B:248:TYR:OH[8_664]	1.59	0.61
1:A:110:SER:CB	6:A:847:HOH:O[3_675]	1.59	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:111:LYS:NZ	1:B:256:LYS:CB[8_664]	1.59	0.61
1:A:116:LEU:N	1:B:263:VAL:CG1[8_664]	1.59	0.61
1:A:117:ILE:C	1:B:262:GLN:C[8_664]	1.59	0.61
1:A:122:ARG:CD	1:B:174:LEU:N[5_454]	1.59	0.61
1:A:133:ARG:NH2	6:B:862:HOH:O[5_454]	1.59	0.61
1:A:143:MET:SD	1:B:216:VAL:CA[5_454]	1.59	0.61
1:A:146:VAL:O	1:B:270:THR:OG1[8_664]	1.59	0.61
1:A:150:TYR:CZ	1:B:194:GLN:CA[5_454]	1.59	0.61
1:A:151:GLU:CD	6:B:841:HOH:O[5_454]	1.59	0.61
1:A:187:PHE:C	1:B:235:PHE:CD1[5_454]	1.59	0.61
1:A:189:VAL:O	1:B:240:TYR:CB[5_454]	1.59	0.61
1:A:209:ASP:C	1:A:224:ALA:CA[6_574]	1.59	0.61
1:A:240:TYR:N	1:A:455:GLU:OE1[6_574]	1.59	0.61
1:A:250:ASN:CB	1:A:291:ASN:CA[5_454]	1.59	0.61
1:A:251:VAL:N	1:A:300:ARG:C[5_454]	1.59	0.61
1:A:258:VAL:C	1:B:209:ASP:O[3_675]	1.59	0.61
1:A:259:THR:N	1:A:331:LYS:O[8_664]	1.59	0.61
1:A:281:PRO:O	1:A:318:ARG:CG[8_664]	1.59	0.61
1:A:282:ALA:CA	1:A:472:HIS:CG[5_454]	1.59	0.61
1:A:292:SER:C	1:A:292:SER:O[5_454]	1.59	0.61
1:A:319:MET:SD	1:A:474:HIS:CG[5_454]	1.59	0.61
1:A:333:ALA:C	1:B:212:TYR:CD2[5_454]	1.59	0.61
1:A:340:PHE:CE1	6:A:817:HOH:O[4_465]	1.59	0.61
1:A:370:THR:O	1:A:374:LYS:CB[4_465]	1.59	0.61
1:A:381:ARG:CB	1:A:404:THR:CA[4_465]	1.59	0.61
1:A:387:HIS:CG	1:A:413:LEU:CD1[4_465]	1.59	0.61
1:A:394:CYS:CA	1:A:437:VAL:O[4_465]	1.59	0.61
1:A:401:MET:CE	1:A:442:ILE:CB[4_465]	1.59	0.61
1:A:412:LYS:CA	1:A:424:ALA:N[3_665]	1.59	0.61
1:A:430:LEU:N	1:A:432:LYS:CD[2_575]	1.59	0.61
1:A:469:ASP:O	1:B:251:VAL:CG1[5_454]	1.59	0.61
1:B:95:ALA:CB	1:B:96:LYS:N[4_365]	1.59	0.61
1:B:100:TYR:CB	1:B:399:SER:N[3_675]	1.59	0.61
1:B:101:ASP:N	1:B:397:ASP:O[3_675]	1.59	0.61
1:B:140:HIS:CB	1:B:435:ILE:CB[3_675]	1.59	0.61
1:B:141:ARG:NH2	1:B:438:LEU:CA[3_675]	1.59	0.61
1:B:164:PRO:CB	1:B:270:THR:N[4_365]	1.59	0.61
1:B:164:PRO:CD	1:B:270:THR:N[4_365]	1.59	0.61
1:B:197:ASP:OD2	1:B:271:ASP:O[4_365]	1.59	0.61
1:B:257:HIS:CA	1:B:450:LYS:O[3_675]	1.59	0.61
1:B:313:GLN:C	1:B:360:PHE:N[3_675]	1.59	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:315:PRO:C	1:B:361:LEU:CA[3_675]	1.59	0.61
1:B:317:PHE:CE1	1:B:363:ASP:CB[3_675]	1.59	0.61
1:B:318:ARG:C	1:B:442:ILE:O[3_675]	1.59	0.61
1:B:323:VAL:CG1	1:B:446:GLN:C[3_675]	1.59	0.61
1:B:337:SER:CA	1:B:375:HIS:N[3_675]	1.59	0.61
1:A:89:THR:C	1:A:164:PRO:CG[8_664]	1.60	0.60
1:A:92:THR:N	1:A:214:TYR:CB[8_664]	1.60	0.60
1:A:100:TYR:CB	1:A:201:TYR:O[8_664]	1.60	0.60
1:A:102:LYS:C	1:A:238:LEU:CD2[8_664]	1.60	0.60
1:A:103:LEU:CD1	1:A:199:GLU:CA[8_664]	1.60	0.60
1:A:105:VAL:C	6:A:876:HOH:O[3_675]	1.60	0.60
1:A:106:ARG:CG	1:A:237:ASP:CB[8_664]	1.60	0.60
1:A:116:LEU:CD2	1:B:217:GLU:O[5_454]	1.60	0.60
1:A:116:LEU:CD1	1:B:217:GLU:C[5_454]	1.60	0.60
1:A:120:ILE:C	1:B:222:ILE:CG2[5_454]	1.60	0.60
1:A:120:ILE:CD1	1:B:260:PHE:CA[8_664]	1.60	0.60
1:A:137:PHE:CG	1:B:454:ASP:C[5_454]	1.60	0.60
1:A:140:HIS:CG	1:B:217:GLU:CD[5_454]	1.60	0.60
1:A:141:ARG:CG	1:A:279:SER:CA[8_664]	1.60	0.60
1:A:142:ASP:CG	1:B:275:ILE:N[8_664]	1.60	0.60
1:A:147:LEU:N	1:B:270:THR:N[8_664]	1.60	0.60
1:A:148:ASP:OD2	1:B:165:SER:CA[5_454]	1.60	0.60
1:A:151:GLU:OE1	1:B:162:ARG:NH1[5_454]	1.60	0.60
1:A:152:ASN:CB	1:B:199:GLU:OE2[5_454]	1.60	0.60
1:A:168:ALA:CB	1:A:168:ALA:CB[6_574]	1.60	0.60
1:A:180:THR:O	1:B:461:MET:O[5_454]	1.60	0.60
1:A:191:LEU:N	1:B:240:TYR:O[5_454]	1.60	0.60
1:A:239:ASP:OD2	1:A:456:ILE:N[6_574]	1.60	0.60
1:A:248:TYR:OH	1:A:470:PHE:CE2[5_454]	1.60	0.60
1:A:250:ASN:N	1:A:290:SER:OG[5_454]	1.60	0.60
1:A:250:ASN:CB	1:A:291:ASN:N[5_454]	1.60	0.60
1:A:254:ILE:CA	6:A:830:HOH:O[5_454]	1.60	0.60
1:A:266:ILE:CD1	1:A:288:SER:OG[8_664]	1.60	0.60
1:A:278:ILE:CA	1:A:334:LEU:O[8_664]	1.60	0.60
1:A:278:ILE:CA	1:A:473:HIS:CE1[5_454]	1.60	0.60
1:A:326:ARG:NH2	4:B:812:GOL:O2[3_675]	1.60	0.60
1:A:326:ARG:CZ	4:B:812:GOL:C2[3_675]	1.60	0.60
1:A:341:PRO:CA	1:A:363:ASP:C[4_465]	1.60	0.60
1:A:344:GLN:N	1:A:371:LYS:NZ[4_465]	1.60	0.60
1:A:344:GLN:C	1:A:363:ASP:OD2[4_465]	1.60	0.60
1:A:348:THR:N	1:A:362:THR:CA[4_465]	1.60	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:353:SER:CA	6:A:899:HOH:O[8_664]	1.60	0.60
1:A:359:ILE:CG1	1:A:370:THR:OG1[4_465]	1.60	0.60
1:A:369:LYS:CD	1:A:438:LEU:CD1[3_665]	1.60	0.60
1:A:372:VAL:CG1	1:A:373:ASN:ND2[2_575]	1.60	0.60
1:A:374:LYS:C	1:A:375:HIS:CA[4_465]	1.60	0.60
1:A:383:THR:CG2	1:A:443:ALA:CB[2_575]	1.60	0.60
1:A:387:HIS:ND1	1:A:403:LEU:O[4_465]	1.60	0.60
1:A:403:LEU:CD2	1:A:420:TYR:CE1[3_665]	1.60	0.60
1:A:428:GLY:C	1:A:433:ALA:N[2_575]	1.60	0.60
1:A:432:LYS:CD	1:A:433:ALA:N[3_665]	1.60	0.60
1:A:432:LYS:NZ	1:A:433:ALA:C[3_665]	1.60	0.60
1:A:439:GLN:CB	4:A:814:GOL:C1[2_575]	1.60	0.60
1:A:465:LYS:NZ	1:B:252:VAL:CG2[5_454]	1.60	0.60
1:B:109:SER:C	1:B:434:LEU:O[3_675]	1.60	0.60
1:B:135:GLY:N	6:B:888:HOH:O[3_675]	1.60	0.60
1:B:137:PHE:CA	1:B:373:ASN:CA[3_675]	1.60	0.60
1:B:138:PHE:C	1:B:431:LYS:CB[3_675]	1.60	0.60
1:B:140:HIS:N	1:B:435:ILE:CB[3_675]	1.60	0.60
1:B:149:ALA:CB	1:B:154:LYS:CE[2_475]	1.60	0.60
1:B:215:ALA:O	1:B:260:PHE:CE2[4_365]	1.60	0.60
1:B:218:ASN:CG	1:B:269:PHE:CB[4_365]	1.60	0.60
1:B:302:ASP:CB	1:B:303:ILE:CD1[2_475]	1.60	0.60
1:B:308:PRO:CG	1:B:366:LYS:NZ[3_675]	1.60	0.60
1:B:320:THR:CB	1:B:446:GLN:OE1[3_675]	1.60	0.60
1:B:321:ARG:N	1:B:446:GLN:OE1[3_675]	1.60	0.60
1:B:329:TYR:CD1	1:B:471:GLN:N[2_475]	1.60	0.60
1:B:329:TYR:CE1	1:B:470:PHE:O[2_475]	1.60	0.60
1:B:386:GLU:OE2	1:B:417:ARG:NE[4_365]	1.60	0.60
1:A:93:SER:C	1:A:214:TYR:CE1[8_664]	1.61	0.59
1:A:95:ALA:N	1:A:361:LEU:CD1[4_465]	1.61	0.59
1:A:99:ASP:CB	1:A:448:ARG:C[4_465]	1.61	0.59
1:A:102:LYS:CG	1:A:451:GLU:O[4_465]	1.61	0.59
1:A:112:ILE:O	1:B:258:VAL:N[8_664]	1.61	0.59
1:A:122:ARG:C	1:B:177:PHE:CE1[5_454]	1.61	0.59
1:A:139:SER:CB	1:A:277:LYS:N[8_664]	1.61	0.59
1:A:141:ARG:CZ	1:A:282:ALA:N[8_664]	1.61	0.59
1:A:146:VAL:CG2	1:A:260:PHE:CB[8_664]	1.61	0.59
1:A:155:PRO:C	1:B:198:ASP:CB[5_454]	1.61	0.59
1:A:179:PHE:CG	1:B:458:LYS:CA[5_454]	1.61	0.59
1:A:179:PHE:CE1	1:B:457:VAL:C[5_454]	1.61	0.59
1:A:184:GLN:CD	1:B:240:TYR:CE1[5_454]	1.61	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:192:VAL:CG2	1:A:244:SER:C[5_454]	1.61	0.59
1:A:206:LEU:O	1:A:448:ARG:N[6_574]	1.61	0.59
1:A:206:LEU:CA	1:A:446:GLN:N[6_574]	1.61	0.59
1:A:209:ASP:O	1:A:220:LYS:O[6_574]	1.61	0.59
1:A:216:VAL:CA	1:A:216:VAL:C[6_574]	1.61	0.59
1:A:228:ASP:N	1:B:295:GLN:CD[5_454]	1.61	0.59
1:A:230:ASN:CA	1:B:246:GLY:N[5_454]	1.61	0.59
1:A:239:ASP:O	1:A:464:ARG:O[5_454]	1.61	0.59
1:A:240:TYR:N	1:A:464:ARG:C[5_454]	1.61	0.59
1:A:240:TYR:N	1:A:464:ARG:CA[5_454]	1.61	0.59
1:A:248:TYR:CZ	1:A:470:PHE:CE2[5_454]	1.61	0.59
1:A:251:VAL:CA	1:A:300:ARG:N[5_454]	1.61	0.59
1:A:263:VAL:CB	1:A:333:ALA:O[8_664]	1.61	0.59
1:A:270:THR:CA	1:B:461:MET:CB[3_675]	1.61	0.59
1:A:329:TYR:O	4:B:812:GOL:O3[5_454]	1.61	0.59
1:A:334:LEU:N	1:A:473:HIS:CB[3_675]	1.61	0.59
1:A:334:LEU:C	1:A:473:HIS:CG[3_675]	1.61	0.59
1:A:340:PHE:CZ	6:A:817:HOH:O[4_465]	1.61	0.59
1:A:367:GLN:N	1:A:402:TYR:CZ[3_665]	1.61	0.59
1:A:372:VAL:CG1	1:A:373:ASN:OD1[4_465]	1.61	0.59
1:A:373:ASN:N	1:A:373:ASN:C[4_465]	1.61	0.59
1:A:382:ASP:OD1	1:A:405:PHE:CE1[4_465]	1.61	0.59
1:A:399:SER:CB	1:A:435:ILE:CG2[4_465]	1.61	0.59
1:A:428:GLY:O	1:A:432:LYS:CB[3_665]	1.61	0.59
1:A:431:LYS:CB	1:A:431:LYS:CB[4_465]	1.61	0.59
1:A:432:LYS:CE	1:A:433:ALA:CA[3_665]	1.61	0.59
1:A:446:GLN:OE1	2:A:805:CL:CL[6_574]	1.61	0.59
1:A:467:SER:C	1:B:247:PHE:C[5_454]	1.61	0.59
1:B:202:LEU:CB	6:A:905:HOH:O[5_454]	1.61	0.59
1:B:94:SER:O	1:B:94:SER:O[3_675]	1.61	0.59
1:B:100:TYR:CB	1:B:398:VAL:CA[3_675]	1.61	0.59
1:B:101:ASP:CG	1:B:400:PHE:CB[3_675]	1.61	0.59
1:B:112:ILE:C	1:B:429:GLU:N[3_675]	1.61	0.59
1:B:137:PHE:CD1	1:B:374:LYS:CA[3_675]	1.61	0.59
1:B:137:PHE:CG	1:B:373:ASN:C[3_675]	1.61	0.59
1:B:162:ARG:NH1	1:B:268:GLY:CA[4_365]	1.61	0.59
1:B:167:GLU:OE1	1:B:279:SER:CA[4_365]	1.61	0.59
1:B:221:ASP:N	1:B:259:THR:O[4_365]	1.61	0.59
1:B:223:ILE:CB	6:B:910:HOH:O[4_365]	1.61	0.59
1:B:299:ASP:N	1:B:299:ASP:O[2_475]	1.61	0.59
1:B:302:ASP:OD2	1:B:303:ILE:CG2[2_475]	1.61	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:307:ILE:C	1:B:367:GLN:N[3_675]	1.61	0.59
1:B:316:TYR:CG	1:B:360:PHE:CB[3_675]	1.61	0.59
1:B:336:HIS:CB	1:B:372:VAL:CA[3_675]	1.61	0.59
1:B:347:GLN:C	1:B:347:GLN:CB[3_675]	1.61	0.59
1:A:91:GLN:N	1:A:449:ARG:CZ[4_465]	1.62	0.58
1:A:98:ILE:CD1	1:A:200:LYS:CD[8_664]	1.62	0.58
1:A:103:LEU:CD2	1:A:199:GLU:N[8_664]	1.62	0.58
1:A:106:ARG:CA	1:A:237:ASP:CB[8_664]	1.62	0.58
1:A:117:ILE:CA	1:B:220:LYS:O[5_454]	1.62	0.58
1:A:117:ILE:CG2	1:B:220:LYS:O[5_454]	1.62	0.58
1:A:117:ILE:O	1:B:261:ASN:C[8_664]	1.62	0.58
1:A:126:GLN:NE2	1:B:191:LEU:C[5_454]	1.62	0.58
1:A:132:LEU:CG	1:A:272:SER:O[8_664]	1.62	0.58
1:A:137:PHE:CB	1:A:273:ASP:CA[8_664]	1.62	0.58
1:A:139:SER:N	1:A:277:LYS:N[8_664]	1.62	0.58
1:A:158:LEU:N	1:B:239:ASP:CB[5_454]	1.62	0.58
1:A:179:PHE:CA	1:B:458:LYS:O[5_454]	1.62	0.58
1:A:183:LEU:O	1:B:235:PHE:CA[5_454]	1.62	0.58
1:A:206:LEU:CB	1:A:446:GLN:CA[6_574]	1.62	0.58
1:A:207:THR:O	1:A:449:ARG:N[6_574]	1.62	0.58
1:A:209:ASP:CG	6:A:839:HOH:O[6_574]	1.62	0.58
1:A:212:TYR:CB	1:A:452:VAL:CG2[6_574]	1.62	0.58
1:A:214:TYR:N	1:A:220:LYS:CB[6_574]	1.62	0.58
1:A:248:TYR:CB	1:A:297:PHE:CE1[5_454]	1.62	0.58
1:A:264:LYS:O	1:A:475:HIS:CE1[5_454]	1.62	0.58
1:A:264:LYS:CA	1:B:239:ASP:OD2[3_675]	1.62	0.58
1:A:269:PHE:N	1:A:308:PRO:N[8_664]	1.62	0.58
1:A:270:THR:CG2	1:B:457:VAL:O[3_675]	1.62	0.58
1:A:279:SER:CA	1:A:472:HIS:N[5_454]	1.62	0.58
1:A:282:ALA:CB	1:A:472:HIS:ND1[5_454]	1.62	0.58
1:A:314:ASP:O	1:A:316:TYR:CD2[8_664]	1.62	0.58
1:A:330:PRO:O	4:B:812:GOL:O2[5_454]	1.62	0.58
1:A:344:GLN:OE1	1:A:371:LYS:CE[4_465]	1.62	0.58
1:A:371:LYS:C	1:A:374:LYS:N[2_575]	1.62	0.58
1:A:372:VAL:CB	1:A:431:LYS:NZ[3_665]	1.62	0.58
1:A:387:HIS:CE1	1:A:403:LEU:CB[4_465]	1.62	0.58
1:A:412:LYS:O	1:A:424:ALA:C[3_665]	1.62	0.58
1:A:420:TYR:OH	1:A:434:LEU:CD1[4_465]	1.62	0.58
1:A:448:ARG:CZ	4:A:813:GOL:O3[6_574]	1.62	0.58
1:A:468:PHE:N	1:B:248:TYR:N[5_454]	1.62	0.58
1:B:224:ALA:C	6:A:827:HOH:O[5_454]	1.62	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:209:ASP:C	6:A:837:HOH:O[5_454]	1.62	0.58
1:B:464:ARG:CG	6:A:870:HOH:O[5_454]	1.62	0.58
1:B:100:TYR:CB	1:B:398:VAL:N[3_675]	1.62	0.58
1:B:102:LYS:CB	1:B:401:MET:CA[3_675]	1.62	0.58
1:B:105:VAL:CG1	1:B:403:LEU:C[3_675]	1.62	0.58
1:B:137:PHE:CB	1:B:373:ASN:CB[3_675]	1.62	0.58
1:B:141:ARG:CB	1:B:439:GLN:CB[3_675]	1.62	0.58
1:B:166:SER:O	1:B:269:PHE:CZ[4_365]	1.62	0.58
1:B:257:HIS:C	1:B:450:LYS:N[3_675]	1.62	0.58
1:B:308:PRO:N	1:B:366:LYS:O[3_675]	1.62	0.58
1:B:316:TYR:CD2	1:B:362:THR:OG1[3_675]	1.62	0.58
1:B:318:ARG:CA	1:B:442:ILE:CG1[3_675]	1.62	0.58
1:B:320:THR:CB	1:B:446:GLN:CD[3_675]	1.62	0.58
1:B:322:ASP:OD2	1:B:444:GLU:C[3_675]	1.62	0.58
1:B:327:ILE:O	1:B:469:ASP:CG[2_475]	1.62	0.58
1:B:329:TYR:N	1:B:469:ASP:OD1[2_475]	1.62	0.58
1:B:338:THR:CB	1:B:377:PHE:N[3_675]	1.62	0.58
1:A:88:TRP:CA	1:A:163:GLY:O[8_664]	1.63	0.57
1:A:93:SER:N	1:A:214:TYR:CD1[8_664]	1.63	0.57
1:A:107:PHE:O	1:A:283:ILE:CG1[8_664]	1.63	0.57
1:A:107:PHE:CE2	1:A:280:PHE:CE2[8_664]	1.63	0.57
1:A:108:GLY:CA	1:A:298:ARG:CA[3_675]	1.63	0.57
1:A:110:SER:CB	1:B:279:SER:OG[8_664]	1.63	0.57
1:A:116:LEU:C	1:B:221:ASP:N[5_454]	1.63	0.57
1:A:118:ASN:O	1:B:265:GLY:CA[8_664]	1.63	0.57
1:A:120:ILE:CD1	1:B:219:ALA:N[5_454]	1.63	0.57
1:A:122:ARG:NE	1:B:174:LEU:CA[5_454]	1.63	0.57
1:A:122:ARG:N	1:B:177:PHE:CD1[5_454]	1.63	0.57
1:A:131:PHE:CZ	1:B:459:GLU:OE1[5_454]	1.63	0.57
1:A:136:ILE:CA	1:B:453:THR:CB[5_454]	1.63	0.57
1:A:138:PHE:CD1	6:B:916:HOH:O[5_454]	1.63	0.57
1:A:142:ASP:N	1:B:275:ILE:O[8_664]	1.63	0.57
1:A:143:MET:CB	1:B:278:ILE:CG2[8_664]	1.63	0.57
1:A:144:ASN:ND2	1:B:167:GLU:CB[5_454]	1.63	0.57
1:A:146:VAL:CG1	1:B:215:ALA:CB[5_454]	1.63	0.57
1:A:152:ASN:N	5:B:817:TRP:O[5_454]	1.63	0.57
1:A:152:ASN:CG	1:B:200:LYS:NZ[5_454]	1.63	0.57
1:A:156:PHE:CA	1:A:261:ASN:OD1[8_664]	1.63	0.57
1:A:159:TYR:N	1:A:265:GLY:CA[8_664]	1.63	0.57
1:A:184:GLN:CA	1:B:233:PHE:CE2[5_454]	1.63	0.57
1:A:187:PHE:N	1:B:235:PHE:CD1[5_454]	1.63	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:187:PHE:CG	1:B:235:PHE:O[5_454]	1.63	0.57
1:A:231:LYS:O	1:B:244:SER:CA[5_454]	1.63	0.57
1:A:236:SER:CB	1:A:454:ASP:CA[6_574]	1.63	0.57
1:A:241:MET:CA	1:A:296:ILE:CG2[5_454]	1.63	0.57
1:A:241:MET:O	1:A:296:ILE:CB[5_454]	1.63	0.57
1:A:245:SER:N	1:A:293:PHE:CZ[5_454]	1.63	0.57
1:A:247:PHE:CB	1:A:293:PHE:O[5_454]	1.63	0.57
1:A:255:GLN:CD	1:A:300:ARG:CD[5_454]	1.63	0.57
1:A:256:LYS:C	1:B:210:GLN:NE2[3_675]	1.63	0.57
1:A:262:GLN:NE2	1:B:208:LEU:C[3_675]	1.63	0.57
1:A:264:LYS:CG	1:B:239:ASP:OD2[3_675]	1.63	0.57
1:A:274:CYS:C	1:B:220:LYS:NZ[3_675]	1.63	0.57
1:A:275:ILE:CB	1:B:217:GLU:CD[3_675]	1.63	0.57
1:A:275:ILE:CA	1:B:217:GLU:OE2[3_675]	1.63	0.57
1:A:277:LYS:O	1:A:336:HIS:CG[8_664]	1.63	0.57
1:A:277:LYS:CB	1:A:336:HIS:CA[8_664]	1.63	0.57
1:A:278:ILE:CA	1:A:473:HIS:ND1[5_454]	1.63	0.57
1:A:285:ALA:CB	1:A:318:ARG:CA[8_664]	1.63	0.57
1:A:285:ALA:N	1:A:318:ARG:CD[8_664]	1.63	0.57
1:A:306:LEU:C	1:B:212:TYR:CE1[5_454]	1.63	0.57
1:A:324:ALA:CB	1:A:326:ARG:CZ[8_664]	1.63	0.57
1:A:325:PRO:C	1:A:326:ARG:CA[8_664]	1.63	0.57
1:A:329:TYR:CD2	1:A:329:TYR:OH[5_454]	1.63	0.57
1:A:366:LYS:C	1:A:402:TYR:CZ[3_665]	1.63	0.57
1:A:369:LYS:CE	6:A:821:HOH:O[2_575]	1.63	0.57
1:A:381:ARG:CD	1:A:404:THR:O[4_465]	1.63	0.57
1:A:384:ILE:CB	1:A:400:PHE:CD2[4_465]	1.63	0.57
1:A:397:ASP:OD2	1:A:438:LEU:CG[4_465]	1.63	0.57
1:A:401:MET:N	1:A:439:GLN:CA[4_465]	1.63	0.57
1:A:455:GLU:OE2	1:A:464:ARG:N[2_475]	1.63	0.57
1:B:94:SER:N	1:B:95:ALA:CA[2_485]	1.63	0.57
1:B:103:LEU:CA	1:B:402:TYR:CD1[3_675]	1.63	0.57
1:B:137:PHE:CB	1:B:373:ASN:CA[3_675]	1.63	0.57
1:B:141:ARG:CG	1:B:439:GLN:N[3_675]	1.63	0.57
1:B:141:ARG:CD	1:B:438:LEU:C[3_675]	1.63	0.57
1:B:148:ASP:CG	1:B:152:ASN:OD1[2_475]	1.63	0.57
1:B:169:MET:CB	1:B:267:PHE:CD1[4_365]	1.63	0.57
1:B:215:ALA:O	1:B:260:PHE:CD2[4_365]	1.63	0.57
1:B:220:LYS:CB	1:B:259:THR:O[4_365]	1.63	0.57
1:B:312:ASP:O	1:B:359:ILE:N[3_675]	1.63	0.57
1:B:315:PRO:C	1:B:360:PHE:C[3_675]	1.63	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:316:TYR:O	1:B:362:THR:N[3_675]	1.63	0.57
1:B:327:ILE:CG2	1:B:450:LYS:CD[3_675]	1.63	0.57
1:B:338:THR:C	1:B:375:HIS:C[3_675]	1.63	0.57
1:A:91:GLN:O	1:A:449:ARG:CD[4_465]	1.64	0.56
1:A:92:THR:N	1:A:449:ARG:CZ[4_465]	1.64	0.56
1:A:102:LYS:CB	1:A:451:GLU:O[4_465]	1.64	0.56
1:A:110:SER:C	1:A:471:GLN:CD[3_675]	1.64	0.56
1:A:118:ASN:CA	1:B:221:ASP:O[5_454]	1.64	0.56
1:A:119:ARG:CZ	1:B:162:ARG:CZ[5_454]	1.64	0.56
1:A:132:LEU:C	1:B:452:VAL:CB[5_454]	1.64	0.56
1:A:139:SER:C	1:A:276:GLY:C[8_664]	1.64	0.56
1:A:140:HIS:CA	1:A:473:HIS:NE2[3_675]	1.64	0.56
1:A:145:GLN:N	1:B:273:ASP:CB[8_664]	1.64	0.56
1:A:146:VAL:CB	1:B:215:ALA:CB[5_454]	1.64	0.56
1:A:146:VAL:O	1:B:164:PRO:CD[5_454]	1.64	0.56
1:A:149:ALA:C	1:B:196:THR:O[5_454]	1.64	0.56
1:A:171:VAL:CG1	1:A:377:PHE:CZ[3_665]	1.64	0.56
1:A:179:PHE:C	1:B:462:THR:N[5_454]	1.64	0.56
1:A:210:GLN:CB	6:A:900:HOH:O[8_664]	1.64	0.56
1:A:212:TYR:CE1	1:A:457:VAL:CG2[6_574]	1.64	0.56
1:A:231:LYS:O	1:B:243:MET:C[5_454]	1.64	0.56
1:A:233:PHE:CG	1:A:243:MET:C[5_454]	1.64	0.56
1:A:250:ASN:O	1:A:300:ARG:C[5_454]	1.64	0.56
1:A:251:VAL:CG1	1:A:300:ARG:CB[5_454]	1.64	0.56
1:A:257:HIS:CB	1:A:331:LYS:CD[8_664]	1.64	0.56
1:A:267:PHE:CD1	1:A:474:HIS:O[5_454]	1.64	0.56
1:A:269:PHE:CB	1:A:308:PRO:CA[8_664]	1.64	0.56
1:A:283:ILE:C	1:A:318:ARG:CD[8_664]	1.64	0.56
1:A:304:GLN:O	1:B:238:LEU:CD1[5_454]	1.64	0.56
1:A:344:GLN:N	1:A:371:LYS:CE[4_465]	1.64	0.56
1:A:372:VAL:CG1	1:A:431:LYS:CD[3_665]	1.64	0.56
1:A:373:ASN:OD1	1:A:431:LYS:CE[2_575]	1.64	0.56
1:A:374:LYS:C	1:A:375:HIS:N[4_465]	1.64	0.56
1:A:375:HIS:CE1	1:A:375:HIS:CE1[4_465]	1.64	0.56
1:A:379:GLY:O	1:A:406:PHE:CD1[4_465]	1.64	0.56
1:A:382:ASP:N	1:A:405:PHE:CD1[4_465]	1.64	0.56
1:A:417:ARG:C	2:A:807:CL:CL[3_665]	1.64	0.56
1:A:427:THR:CB	1:A:434:LEU:CB[4_465]	1.64	0.56
1:A:430:LEU:CA	1:A:433:ALA:CA[4_465]	1.64	0.56
1:A:436:GLU:N	6:A:892:HOH:O[2_575]	1.64	0.56
1:A:453:THR:OG1	1:A:465:LYS:N[2_475]	1.64	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:100:TYR:CD1	1:B:398:VAL:CG1[3_675]	1.64	0.56
1:B:100:TYR:CD2	1:B:377:PHE:O[3_675]	1.64	0.56
1:B:101:ASP:N	1:B:400:PHE:N[3_675]	1.64	0.56
1:B:104:ILE:C	1:B:403:LEU:N[3_675]	1.64	0.56
1:B:106:ARG:CA	1:B:405:PHE:CA[3_675]	1.64	0.56
1:B:110:SER:CB	1:B:433:ALA:C[3_675]	1.64	0.56
1:B:113:ASP:C	1:B:429:GLU:CB[3_675]	1.64	0.56
1:B:114:LYS:CE	1:B:388:ARG:NH1[3_675]	1.64	0.56
1:B:139:SER:N	1:B:372:VAL:CG1[3_675]	1.64	0.56
1:B:169:MET:O	1:B:267:PHE:CD2[4_365]	1.64	0.56
1:B:214:TYR:CB	1:B:278:ILE:CD1[4_365]	1.64	0.56
1:B:220:LYS:CA	1:B:260:PHE:N[4_365]	1.64	0.56
1:B:312:ASP:C	1:B:358:SER:CA[3_675]	1.64	0.56
1:B:337:SER:C	1:B:375:HIS:C[3_675]	1.64	0.56
1:B:451:GLU:CB	6:B:886:HOH:O[4_365]	1.64	0.56
1:A:95:ALA:CB	1:A:361:LEU:CD2[4_465]	1.65	0.55
1:A:96:LYS:C	1:A:445:HIS:CB[4_465]	1.65	0.55
1:A:97:GLY:O	1:A:206:LEU:CD2[8_664]	1.65	0.55
1:A:99:ASP:CG	1:A:448:ARG:C[4_465]	1.65	0.55
1:A:102:LYS:CE	1:A:452:VAL:CA[4_465]	1.65	0.55
1:A:110:SER:CB	1:B:279:SER:CB[8_664]	1.65	0.55
1:A:116:LEU:CD1	1:B:218:ASN:N[5_454]	1.65	0.55
1:A:119:ARG:O	1:B:264:LYS:O[8_664]	1.65	0.55
1:A:119:ARG:CA	1:B:169:MET:CE[5_454]	1.65	0.55
1:A:129:HIS:ND1	1:B:229:ILE:CD1[5_454]	1.65	0.55
1:A:137:PHE:CE1	1:A:273:ASP:OD1[8_664]	1.65	0.55
1:A:140:HIS:CA	1:A:279:SER:N[8_664]	1.65	0.55
1:A:142:ASP:N	1:B:275:ILE:CB[8_664]	1.65	0.55
1:A:143:MET:CA	1:B:214:TYR:C[5_454]	1.65	0.55
1:A:154:LYS:CG	1:B:199:GLU:O[5_454]	1.65	0.55
1:A:157:TYR:N	1:B:238:LEU:C[5_454]	1.65	0.55
1:A:180:THR:N	1:B:462:THR:CB[5_454]	1.65	0.55
1:A:187:PHE:CD2	1:B:195:MET:N[5_454]	1.65	0.55
1:A:190:PRO:N	1:B:241:MET:N[5_454]	1.65	0.55
1:A:197:ASP:CG	1:A:452:VAL:O[6_574]	1.65	0.55
1:A:233:PHE:CD1	1:A:243:MET:CB[5_454]	1.65	0.55
1:A:238:LEU:CA	1:A:453:THR:CB[6_574]	1.65	0.55
1:A:260:PHE:CA	1:A:333:ALA:CB[8_664]	1.65	0.55
1:A:266:ILE:N	1:A:475:HIS:CB[5_454]	1.65	0.55
1:A:269:PHE:CD2	1:A:307:ILE:O[8_664]	1.65	0.55
1:A:274:CYS:O	1:B:220:LYS:CE[3_675]	1.65	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:277:LYS:O	1:A:336:HIS:CD2[8_664]	1.65	0.55
1:A:284:GLN:C	1:A:318:ARG:CZ[8_664]	1.65	0.55
1:A:317:PHE:CA	1:A:474:HIS:CD2[3_675]	1.65	0.55
1:A:330:PRO:C	4:B:812:GOL:O2[5_454]	1.65	0.55
1:A:348:THR:CG2	1:A:352:ALA:CB[8_664]	1.65	0.55
1:A:387:HIS:ND1	1:A:403:LEU:CA[4_465]	1.65	0.55
1:A:394:CYS:O	6:A:865:HOH:O[3_665]	1.65	0.55
1:A:400:PHE:CG	1:A:440:PRO:CD[4_465]	1.65	0.55
1:A:430:LEU:O	1:A:432:LYS:C[4_465]	1.65	0.55
1:B:256:LYS:CE	2:A:804:CL:CL[8_664]	1.65	0.55
1:B:458:LYS:CB	6:A:906:HOH:O[4_365]	1.65	0.55
1:B:95:ALA:CB	1:B:97:GLY:N[4_365]	1.65	0.55
1:B:99:ASP:CA	1:B:401:MET:SD[3_675]	1.65	0.55
1:B:104:ILE:CB	1:B:399:SER:O[3_675]	1.65	0.55
1:B:211:ALA:CA	1:B:273:ASP:C[4_365]	1.65	0.55
1:B:218:ASN:CG	1:B:269:PHE:CD2[4_365]	1.65	0.55
1:B:222:ILE:CA	1:B:261:ASN:C[4_365]	1.65	0.55
1:B:289:PHE:CD1	1:B:471:GLN:C[2_475]	1.65	0.55
1:B:299:ASP:CA	1:B:299:ASP:C[2_475]	1.65	0.55
1:B:314:ASP:N	1:B:359:ILE:CB[3_675]	1.65	0.55
1:B:317:PHE:CD2	1:B:363:ASP:O[3_675]	1.65	0.55
1:B:322:ASP:CB	1:B:444:GLU:O[3_675]	1.65	0.55
1:B:328:GLY:C	1:B:469:ASP:CB[2_475]	1.65	0.55
1:B:329:TYR:CG	1:B:471:GLN:CA[2_475]	1.65	0.55
1:B:336:HIS:CD2	1:B:372:VAL:CG2[3_675]	1.65	0.55
1:B:339:PHE:CZ	1:B:343:LEU:N[3_675]	1.65	0.55
1:B:339:PHE:CB	1:B:344:GLN:CD[3_675]	1.65	0.55
1:A:118:ASN:N	1:B:221:ASP:CA[5_454]	1.66	0.54
1:A:120:ILE:C	1:B:222:ILE:CD1[5_454]	1.66	0.54
1:A:124:THR:CG2	1:B:193:ILE:CB[5_454]	1.66	0.54
1:A:130:HIS:CB	1:A:390:PHE:CB[3_665]	1.66	0.54
1:A:136:ILE:CG2	1:B:455:GLU:CB[5_454]	1.66	0.54
1:A:144:ASN:CB	1:B:166:SER:O[5_454]	1.66	0.54
1:A:144:ASN:CG	1:B:269:PHE:CE2[8_664]	1.66	0.54
1:A:157:TYR:CZ	1:A:249:LYS:CE[5_454]	1.66	0.54
1:A:179:PHE:CZ	1:B:457:VAL:CA[5_454]	1.66	0.54
1:A:183:LEU:CG	1:A:270:THR:OG1[8_664]	1.66	0.54
1:A:187:PHE:CZ	1:A:271:ASP:OD2[8_664]	1.66	0.54
1:A:210:GLN:OE1	1:A:445:HIS:CA[6_574]	1.66	0.54
1:A:212:TYR:CD1	1:A:452:VAL:CG1[6_574]	1.66	0.54
1:A:215:ALA:CA	1:A:220:LYS:CE[6_574]	1.66	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:230:ASN:C	1:B:245:SER:CA[5_454]	1.66	0.54
1:A:238:LEU:O	1:A:465:LYS:CA[5_454]	1.66	0.54
1:A:239:ASP:CA	1:A:453:THR:OG1[6_574]	1.66	0.54
1:A:239:ASP:CA	1:A:464:ARG:CG[5_454]	1.66	0.54
1:A:240:TYR:CE1	1:A:240:TYR:CE1[5_454]	1.66	0.54
1:A:247:PHE:CE1	1:A:294:PRO:CG[5_454]	1.66	0.54
1:A:257:HIS:CA	1:A:331:LYS:CD[8_664]	1.66	0.54
1:A:258:VAL:N	1:B:207:THR:CG2[3_675]	1.66	0.54
1:A:259:THR:N	1:B:209:ASP:N[3_675]	1.66	0.54
1:A:262:GLN:CB	1:A:332:PRO:CB[8_664]	1.66	0.54
1:A:270:THR:O	1:B:461:MET:CE[3_675]	1.66	0.54
1:A:277:LYS:CD	1:A:337:SER:N[8_664]	1.66	0.54
1:A:285:ALA:N	1:A:318:ARG:CG[8_664]	1.66	0.54
1:A:304:GLN:C	6:A:897:HOH:O[8_664]	1.66	0.54
1:A:313:GLN:CA	1:A:316:TYR:CE1[8_664]	1.66	0.54
1:A:330:PRO:CA	4:B:812:GOL:O3[5_454]	1.66	0.54
1:A:343:LEU:CG	1:A:367:GLN:O[4_465]	1.66	0.54
1:A:344:GLN:NE2	1:A:353:SER:O[8_664]	1.66	0.54
1:A:367:GLN:CA	1:A:402:TYR:OH[3_665]	1.66	0.54
1:A:369:LYS:NZ	1:A:397:ASP:OD1[2_575]	1.66	0.54
1:A:371:LYS:C	1:A:374:LYS:C[2_575]	1.66	0.54
1:A:375:HIS:ND1	1:A:375:HIS:CE1[3_665]	1.66	0.54
1:A:381:ARG:CZ	1:A:405:PHE:O[4_465]	1.66	0.54
1:A:397:ASP:CG	1:A:438:LEU:N[4_465]	1.66	0.54
1:A:398:VAL:O	1:A:439:GLN:CG[4_465]	1.66	0.54
1:A:400:PHE:CA	1:A:435:ILE:O[4_465]	1.66	0.54
1:A:409:ASP:CA	1:A:422:SER:CA[3_665]	1.66	0.54
1:A:426:LEU:CB	1:A:436:GLU:CD[2_575]	1.66	0.54
1:A:468:PHE:CD1	1:B:247:PHE:CB[5_454]	1.66	0.54
1:B:161:GLY:O	6:A:903:HOH:O[5_454]	1.66	0.54
1:B:100:TYR:CA	1:B:398:VAL:N[3_675]	1.66	0.54
1:B:105:VAL:O	1:B:406:PHE:CA[3_675]	1.66	0.54
1:B:137:PHE:CZ	1:B:374:LYS:CB[3_675]	1.66	0.54
1:B:140:HIS:C	1:B:435:ILE:C[3_675]	1.66	0.54
1:B:141:ARG:O	1:B:439:GLN:NE2[3_675]	1.66	0.54
1:B:234:ILE:CD1	1:B:261:ASN:CG[4_365]	1.66	0.54
1:B:236:SER:N	1:B:271:ASP:OD2[4_365]	1.66	0.54
1:B:314:ASP:CB	1:B:359:ILE:CB[3_675]	1.66	0.54
1:B:328:GLY:C	1:B:469:ASP:O[2_475]	1.66	0.54
1:A:99:ASP:O	1:A:450:LYS:CB[4_465]	1.67	0.53
1:A:99:ASP:CA	1:A:449:ARG:N[4_465]	1.67	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:GLY:CA	1:A:298:ARG:CB[3_675]	1.67	0.53
1:A:111:LYS:CG	1:B:255:GLN:C[8_664]	1.67	0.53
1:A:114:LYS:CD	1:B:449:ARG:N[5_454]	1.67	0.53
1:A:116:LEU:CD2	1:B:217:GLU:CA[5_454]	1.67	0.53
1:A:117:ILE:CA	1:B:262:GLN:N[8_664]	1.67	0.53
1:A:119:ARG:CG	1:B:169:MET:SD[5_454]	1.67	0.53
1:A:129:HIS:CA	1:B:460:PHE:CE1[5_454]	1.67	0.53
1:A:130:HIS:O	1:A:390:PHE:CD1[3_665]	1.67	0.53
1:A:137:PHE:O	1:A:274:CYS:CA[8_664]	1.67	0.53
1:A:141:ARG:NH1	1:A:282:ALA:N[8_664]	1.67	0.53
1:A:143:MET:CA	1:B:278:ILE:CD1[8_664]	1.67	0.53
1:A:146:VAL:N	1:B:211:ALA:O[5_454]	1.67	0.53
1:A:151:GLU:CB	5:B:817:TRP:OXT[5_454]	1.67	0.53
1:A:153:LYS:N	1:B:199:GLU:CD[5_454]	1.67	0.53
1:A:154:LYS:N	1:B:199:GLU:CB[5_454]	1.67	0.53
1:A:167:GLU:CG	1:A:169:MET:CE[6_574]	1.67	0.53
1:A:182:TRP:CE3	1:B:460:PHE:CB[5_454]	1.67	0.53
1:A:188:ASN:C	1:B:235:PHE:CE2[5_454]	1.67	0.53
1:A:207:THR:CB	1:A:448:ARG:CG[6_574]	1.67	0.53
1:A:213:SER:OG	1:A:221:ASP:C[6_574]	1.67	0.53
1:A:228:ASP:CG	1:B:294:PRO:N[5_454]	1.67	0.53
1:A:247:PHE:CD2	1:A:293:PHE:C[5_454]	1.67	0.53
1:A:253:LYS:O	1:A:331:LYS:NZ[8_664]	1.67	0.53
1:A:256:LYS:C	1:B:210:GLN:CG[3_675]	1.67	0.53
1:A:257:HIS:CB	1:A:331:LYS:CE[8_664]	1.67	0.53
1:A:259:THR:C	1:B:212:TYR:CA[3_675]	1.67	0.53
1:A:261:ASN:N	1:B:212:TYR:CD1[3_675]	1.67	0.53
1:A:262:GLN:CB	1:A:332:PRO:CA[8_664]	1.67	0.53
1:A:263:VAL:CA	1:A:307:ILE:CG1[8_664]	1.67	0.53
1:A:267:PHE:CZ	1:A:317:PHE:CG[8_664]	1.67	0.53
1:A:269:PHE:N	1:A:308:PRO:C[8_664]	1.67	0.53
1:A:270:THR:CG2	1:B:458:LYS:C[3_675]	1.67	0.53
1:A:279:SER:CB	1:A:471:GLN:O[5_454]	1.67	0.53
1:A:285:ALA:CB	1:A:318:ARG:C[8_664]	1.67	0.53
1:A:306:LEU:O	1:B:239:ASP:CG[5_454]	1.67	0.53
1:A:314:ASP:C	1:A:316:TYR:CE2[8_664]	1.67	0.53
1:A:319:MET:C	1:A:320:THR:CB[8_664]	1.67	0.53
1:A:320:THR:N	1:A:320:THR:CA[8_664]	1.67	0.53
1:A:331:LYS:C	1:B:209:ASP:CA[5_454]	1.67	0.53
1:A:334:LEU:C	1:A:473:HIS:CB[3_675]	1.67	0.53
1:A:341:PRO:O	1:A:364:THR:N[4_465]	1.67	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:342:ALA:N	1:A:367:GLN:OE1[4_465]	1.67	0.53
1:A:344:GLN:CA	1:A:371:LYS:NZ[4_465]	1.67	0.53
1:A:377:PHE:O	1:A:438:LEU:CD1[4_465]	1.67	0.53
1:A:389:GLN:O	1:A:410:ASP:CG[4_465]	1.67	0.53
1:A:395:ASP:C	1:A:441:LEU:CB[4_465]	1.67	0.53
1:A:401:MET:CA	1:A:439:GLN:CB[4_465]	1.67	0.53
1:A:401:MET:CE	1:A:443:ALA:N[4_465]	1.67	0.53
1:A:425:MET:SD	1:A:432:LYS:CE[2_575]	1.67	0.53
1:A:428:GLY:CA	1:A:432:LYS:C[2_575]	1.67	0.53
1:A:458:LYS:CE	1:A:462:THR:CB[6_574]	1.67	0.53
1:A:468:PHE:O	1:B:248:TYR:CG[5_454]	1.67	0.53
1:B:198:ASP:CA	6:A:857:HOH:O[5_454]	1.67	0.53
1:B:104:ILE:C	1:B:402:TYR:C[3_675]	1.67	0.53
1:B:111:LYS:N	1:B:433:ALA:C[3_675]	1.67	0.53
1:B:111:LYS:CE	1:B:430:LEU:CG[3_675]	1.67	0.53
1:B:112:ILE:C	1:B:428:GLY:C[3_675]	1.67	0.53
1:B:113:ASP:CA	1:B:429:GLU:CG[3_675]	1.67	0.53
1:B:141:ARG:CA	1:B:435:ILE:O[3_675]	1.67	0.53
1:B:163:GLY:O	1:B:268:GLY:O[4_365]	1.67	0.53
1:B:210:GLN:CA	1:B:274:CYS:CB[4_365]	1.67	0.53
1:B:222:ILE:CD1	1:B:264:LYS:CB[4_365]	1.67	0.53
1:B:222:ILE:CG1	1:B:261:ASN:O[4_365]	1.67	0.53
1:B:312:ASP:OD2	1:B:357:SER:N[3_675]	1.67	0.53
1:B:314:ASP:N	1:B:359:ILE:CG2[3_675]	1.67	0.53
1:B:320:THR:CA	1:B:446:GLN:NE2[3_675]	1.67	0.53
1:B:334:LEU:N	1:B:365:ALA:O[3_675]	1.67	0.53
1:B:337:SER:N	1:B:372:VAL:N[3_675]	1.67	0.53
1:A:103:LEU:CB	1:A:450:LYS:CG[4_465]	1.68	0.52
1:A:107:PHE:N	1:A:283:ILE:CG2[8_664]	1.68	0.52
1:A:117:ILE:O	1:B:221:ASP:O[5_454]	1.68	0.52
1:A:120:ILE:CG2	1:B:261:ASN:OD1[8_664]	1.68	0.52
1:A:122:ARG:CD	1:B:173:HIS:O[5_454]	1.68	0.52
1:A:124:THR:CA	1:B:193:ILE:CG2[5_454]	1.68	0.52
1:A:126:GLN:CB	1:B:191:LEU:CD2[5_454]	1.68	0.52
1:A:128:PRO:C	1:B:460:PHE:CZ[5_454]	1.68	0.52
1:A:133:ARG:CB	1:A:390:PHE:CZ[3_665]	1.68	0.52
1:A:141:ARG:CZ	1:A:472:HIS:CG[3_675]	1.68	0.52
1:A:141:ARG:CB	1:B:275:ILE:CD1[8_664]	1.68	0.52
1:A:144:ASN:O	1:B:273:ASP:OD2[8_664]	1.68	0.52
1:A:147:LEU:CD1	1:B:218:ASN:CG[5_454]	1.68	0.52
1:A:147:LEU:N	1:B:270:THR:C[8_664]	1.68	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:151:GLU:CD	1:B:268:GLY:O[8_664]	1.68	0.52
1:A:159:TYR:C	1:A:265:GLY:C[8_664]	1.68	0.52
1:A:205:ASP:CB	1:A:443:ALA:N[6_574]	1.68	0.52
1:A:208:LEU:O	1:A:452:VAL:CG2[6_574]	1.68	0.52
1:A:210:GLN:CG	1:A:445:HIS:CD2[6_574]	1.68	0.52
1:A:214:TYR:C	1:A:449:ARG:NH2[6_574]	1.68	0.52
1:A:216:VAL:O	1:A:217:GLU:N[6_574]	1.68	0.52
1:A:231:LYS:NZ	1:B:292:SER:C[5_454]	1.68	0.52
1:A:233:PHE:CG	1:A:243:MET:CA[5_454]	1.68	0.52
1:A:238:LEU:C	1:A:465:LYS:C[5_454]	1.68	0.52
1:A:240:TYR:N	1:A:455:GLU:CG[6_574]	1.68	0.52
1:A:241:MET:CG	1:A:296:ILE:CA[5_454]	1.68	0.52
1:A:244:SER:OG	1:A:293:PHE:CE1[5_454]	1.68	0.52
1:A:251:VAL:CG1	1:A:297:PHE:O[5_454]	1.68	0.52
1:A:252:VAL:CG2	1:A:303:ILE:CD1[5_454]	1.68	0.52
1:A:253:LYS:N	1:A:302:ASP:CA[5_454]	1.68	0.52
1:A:259:THR:CG2	1:A:304:GLN:OE1[8_664]	1.68	0.52
1:A:260:PHE:CD1	1:A:306:LEU:CD1[8_664]	1.68	0.52
1:A:263:VAL:O	1:A:307:ILE:CG2[8_664]	1.68	0.52
1:A:264:LYS:CA	1:A:306:LEU:C[8_664]	1.68	0.52
1:A:265:GLY:N	1:B:239:ASP:OD1[3_675]	1.68	0.52
1:A:269:PHE:CG	1:A:335:LEU:O[8_664]	1.68	0.52
1:A:278:ILE:CG2	1:A:473:HIS:ND1[5_454]	1.68	0.52
1:A:323:VAL:CA	1:A:324:ALA:N[8_664]	1.68	0.52
1:A:324:ALA:CB	1:A:326:ARG:NE[8_664]	1.68	0.52
1:A:326:ARG:NH1	1:A:330:PRO:C[8_664]	1.68	0.52
1:A:366:LYS:N	1:A:402:TYR:CZ[3_665]	1.68	0.52
1:A:370:THR:C	1:A:374:LYS:CA[4_465]	1.68	0.52
1:A:394:CYS:CA	6:A:864:HOH:O[4_465]	1.68	0.52
1:A:399:SER:CB	1:A:435:ILE:CA[4_465]	1.68	0.52
1:A:458:LYS:CB	1:A:462:THR:OG1[2_475]	1.68	0.52
1:A:458:LYS:CD	1:A:458:LYS:NZ[5_454]	1.68	0.52
1:A:468:PHE:CD2	1:B:247:PHE:CD2[5_454]	1.68	0.52
1:B:173:HIS:CB	6:A:819:HOH:O[5_454]	1.68	0.52
1:B:109:SER:CB	1:B:434:LEU:O[3_675]	1.68	0.52
1:B:112:ILE:N	1:B:431:LYS:C[3_675]	1.68	0.52
1:B:112:ILE:N	1:B:431:LYS:N[3_675]	1.68	0.52
1:B:112:ILE:CA	1:B:428:GLY:O[3_675]	1.68	0.52
1:B:148:ASP:CB	1:B:152:ASN:CG[2_475]	1.68	0.52
1:B:166:SER:OG	1:B:203:TRP:CH2[4_365]	1.68	0.52
1:B:220:LYS:O	1:B:262:GLN:CG[4_365]	1.68	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:221:ASP:CB	1:B:262:GLN:O[4_365]	1.68	0.52
1:B:221:ASP:OD2	1:B:263:VAL:CB[4_365]	1.68	0.52
1:B:224:ALA:CB	1:B:262:GLN:CD[4_365]	1.68	0.52
1:B:266:ILE:CD1	1:B:445:HIS:CE1[3_675]	1.68	0.52
1:B:316:TYR:CA	1:B:361:LEU:N[3_675]	1.68	0.52
1:B:317:PHE:O	1:B:442:ILE:CG2[3_675]	1.68	0.52
1:B:317:PHE:CE2	1:B:363:ASP:CA[3_675]	1.68	0.52
1:A:100:TYR:CA	1:A:201:TYR:C[8_664]	1.69	0.51
1:A:111:LYS:O	1:A:275:ILE:CD1[8_664]	1.69	0.51
1:A:113:ASP:O	1:B:449:ARG:NE[5_454]	1.69	0.51
1:A:114:LYS:N	1:B:258:VAL:CG2[8_664]	1.69	0.51
1:A:119:ARG:NH1	1:B:162:ARG:NH2[5_454]	1.69	0.51
1:A:123:ALA:O	1:B:161:GLY:CA[5_454]	1.69	0.51
1:A:130:HIS:CB	1:A:390:PHE:CG[3_665]	1.69	0.51
1:A:131:PHE:CA	1:B:456:ILE:CG1[5_454]	1.69	0.51
1:A:134:ARG:NH2	1:A:390:PHE:N[3_665]	1.69	0.51
1:A:141:ARG:CD	1:A:472:HIS:CA[3_675]	1.69	0.51
1:A:142:ASP:CB	1:B:275:ILE:CA[8_664]	1.69	0.51
1:A:143:MET:CG	1:B:216:VAL:C[5_454]	1.69	0.51
1:A:144:ASN:O	1:B:164:PRO:C[5_454]	1.69	0.51
1:A:148:ASP:C	1:B:200:LYS:CG[5_454]	1.69	0.51
1:A:157:TYR:CA	1:B:238:LEU:CA[5_454]	1.69	0.51
1:A:168:ALA:N	1:A:168:ALA:N[6_574]	1.69	0.51
1:A:179:PHE:CE2	1:B:458:LYS:N[5_454]	1.69	0.51
1:A:181:LYS:N	1:B:463:PRO:N[5_454]	1.69	0.51
1:A:183:LEU:O	1:B:235:PHE:N[5_454]	1.69	0.51
1:A:187:PHE:CA	1:B:235:PHE:CD1[5_454]	1.69	0.51
1:A:209:ASP:O	1:A:224:ALA:N[6_574]	1.69	0.51
1:A:213:SER:C	1:A:220:LYS:CB[6_574]	1.69	0.51
1:A:214:TYR:CD2	1:A:449:ARG:NE[6_574]	1.69	0.51
1:A:233:PHE:CG	1:A:243:MET:O[5_454]	1.69	0.51
1:A:236:SER:CB	1:A:453:THR:C[6_574]	1.69	0.51
1:A:241:MET:SD	1:A:296:ILE:O[5_454]	1.69	0.51
1:A:247:PHE:CE2	1:A:294:PRO:CA[5_454]	1.69	0.51
1:A:248:TYR:CB	1:A:297:PHE:CZ[5_454]	1.69	0.51
1:A:253:LYS:NZ	1:A:329:TYR:CA[5_454]	1.69	0.51
1:A:259:THR:CA	1:A:304:GLN:NE2[8_664]	1.69	0.51
1:A:261:ASN:CB	1:B:238:LEU:CB[3_675]	1.69	0.51
1:A:267:PHE:N	1:A:475:HIS:ND1[5_454]	1.69	0.51
1:A:280:PHE:O	1:A:314:ASP:OD2[8_664]	1.69	0.51
1:A:285:ALA:N	1:A:318:ARG:NE[8_664]	1.69	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:325:PRO:CG	1:A:326:ARG:CB[8_664]	1.69	0.51
1:A:343:LEU:CA	1:A:367:GLN:O[4_465]	1.69	0.51
1:A:344:GLN:CD	1:A:371:LYS:NZ[4_465]	1.69	0.51
1:A:368:ILE:CD1	1:A:398:VAL:CA[3_665]	1.69	0.51
1:A:371:LYS:O	1:A:374:LYS:C[3_665]	1.69	0.51
1:A:400:PHE:CA	4:A:814:GOL:C3[3_665]	1.69	0.51
1:A:412:LYS:CB	1:A:424:ALA:CB[3_665]	1.69	0.51
1:A:428:GLY:CA	1:A:431:LYS:O[2_575]	1.69	0.51
1:A:436:GLU:CA	4:A:814:GOL:O3[2_575]	1.69	0.51
1:B:323:VAL:CG2	2:A:809:CL:CL[8_664]	1.69	0.51
1:B:160:THR:CB	6:A:822:HOH:O[5_454]	1.69	0.51
1:B:208:LEU:CB	6:A:826:HOH:O[5_454]	1.69	0.51
1:B:94:SER:O	1:B:95:ALA:N[3_675]	1.69	0.51
1:B:98:ILE:CD1	1:B:342:ALA:O[3_675]	1.69	0.51
1:B:100:TYR:C	1:B:399:SER:N[3_675]	1.69	0.51
1:B:114:LYS:N	1:B:429:GLU:OE1[3_675]	1.69	0.51
1:B:137:PHE:CD1	1:B:374:LYS:N[3_675]	1.69	0.51
1:B:160:THR:CG2	6:B:869:HOH:O[3_675]	1.69	0.51
1:B:300:ARG:N	1:B:300:ARG:C[2_475]	1.69	0.51
1:B:313:GLN:NE2	1:B:355:PRO:O[3_675]	1.69	0.51
1:B:313:GLN:C	1:B:363:ASP:OD2[3_675]	1.69	0.51
1:B:316:TYR:CA	1:B:360:PHE:C[3_675]	1.69	0.51
1:B:318:ARG:N	1:B:442:ILE:CB[3_675]	1.69	0.51
1:B:326:ARG:CZ	1:B:448:ARG:NE[3_675]	1.69	0.51
1:B:335:LEU:CB	1:B:369:LYS:C[3_675]	1.69	0.51
1:B:338:THR:N	1:B:375:HIS:CA[3_675]	1.69	0.51
1:B:338:THR:O	1:B:375:HIS:O[3_675]	1.69	0.51
1:B:339:PHE:N	1:B:375:HIS:O[3_675]	1.69	0.51
1:A:91:GLN:N	1:A:211:ALA:O[8_664]	1.70	0.50
1:A:96:LYS:CB	1:A:445:HIS:CA[4_465]	1.70	0.50
1:A:106:ARG:CB	1:A:237:ASP:CA[8_664]	1.70	0.50
1:A:114:LYS:CA	1:B:449:ARG:CB[5_454]	1.70	0.50
1:A:118:ASN:N	1:B:262:GLN:O[8_664]	1.70	0.50
1:A:120:ILE:CA	1:B:222:ILE:CB[5_454]	1.70	0.50
1:A:121:GLU:N	1:B:222:ILE:CA[5_454]	1.70	0.50
1:A:129:HIS:CA	1:B:460:PHE:CD2[5_454]	1.70	0.50
1:A:134:ARG:NH2	1:A:390:PHE:C[3_665]	1.70	0.50
1:A:137:PHE:CE1	1:B:458:LYS:CB[5_454]	1.70	0.50
1:A:143:MET:CG	1:B:260:PHE:CD1[8_664]	1.70	0.50
1:A:145:GLN:CD	1:B:214:TYR:CD2[5_454]	1.70	0.50
1:A:159:TYR:O	1:A:264:LYS:O[8_664]	1.70	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:181:LYS:N	1:B:462:THR:O[5_454]	1.70	0.50
1:A:181:LYS:CB	1:B:463:PRO:C[5_454]	1.70	0.50
1:A:187:PHE:O	1:B:235:PHE:CE2[5_454]	1.70	0.50
1:A:190:PRO:N	1:B:240:TYR:C[5_454]	1.70	0.50
1:A:198:ASP:N	1:A:450:LYS:O[6_574]	1.70	0.50
1:A:203:TRP:CD1	1:A:337:SER:C[8_664]	1.70	0.50
1:A:206:LEU:CB	1:A:446:GLN:C[6_574]	1.70	0.50
1:A:238:LEU:N	1:A:465:LYS:CB[5_454]	1.70	0.50
1:A:238:LEU:CA	1:A:465:LYS:CA[5_454]	1.70	0.50
1:A:239:ASP:CG	1:A:455:GLU:CA[6_574]	1.70	0.50
1:A:252:VAL:CB	1:A:303:ILE:CG1[5_454]	1.70	0.50
1:A:259:THR:N	1:B:208:LEU:O[3_675]	1.70	0.50
1:A:264:LYS:O	1:A:475:HIS:NE2[5_454]	1.70	0.50
1:A:269:PHE:CD1	1:A:309:CYS:N[8_664]	1.70	0.50
1:A:273:ASP:CA	1:B:457:VAL:CA[3_675]	1.70	0.50
1:A:276:GLY:CA	1:A:471:GLN:NE2[5_454]	1.70	0.50
1:A:277:LYS:CB	1:A:336:HIS:C[8_664]	1.70	0.50
1:A:325:PRO:CA	1:A:326:ARG:CA[8_664]	1.70	0.50
1:A:359:ILE:CD1	1:A:378:SER:N[3_665]	1.70	0.50
1:A:365:ALA:CA	1:A:402:TYR:CE1[3_665]	1.70	0.50
1:A:368:ILE:CG2	1:A:398:VAL:CA[3_665]	1.70	0.50
1:A:372:VAL:N	1:A:372:VAL:O[3_665]	1.70	0.50
1:A:372:VAL:C	1:A:373:ASN:CB[2_575]	1.70	0.50
1:A:375:HIS:CD2	1:A:375:HIS:CE1[2_575]	1.70	0.50
1:A:384:ILE:CG2	1:A:440:PRO:CB[2_575]	1.70	0.50
1:A:385:GLU:N	6:A:866:HOH:O[4_465]	1.70	0.50
1:A:392:GLY:CA	1:A:407:LEU:CA[4_465]	1.70	0.50
1:A:394:CYS:C	1:A:441:LEU:N[4_465]	1.70	0.50
1:A:400:PHE:CG	1:A:436:GLU:O[4_465]	1.70	0.50
1:A:428:GLY:N	1:A:430:LEU:O[4_465]	1.70	0.50
1:A:431:LYS:CA	1:A:431:LYS:O[4_465]	1.70	0.50
1:A:455:GLU:C	1:A:464:ARG:CD[2_475]	1.70	0.50
1:A:467:SER:C	1:B:248:TYR:N[5_454]	1.70	0.50
1:A:468:PHE:CZ	1:B:247:PHE:CD2[5_454]	1.70	0.50
1:B:466:LEU:CD1	6:A:872:HOH:O[5_454]	1.70	0.50
1:B:100:TYR:N	1:B:397:ASP:O[3_675]	1.70	0.50
1:B:103:LEU:C	1:B:402:TYR:CG[3_675]	1.70	0.50
1:B:112:ILE:C	1:B:429:GLU:C[3_675]	1.70	0.50
1:B:137:PHE:CZ	1:B:374:LYS:CG[3_675]	1.70	0.50
1:B:141:ARG:CZ	1:B:438:LEU:CB[3_675]	1.70	0.50
1:B:197:ASP:CB	1:B:272:SER:CA[4_365]	1.70	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:218:ASN:OD1	1:B:269:PHE:CA[4_365]	1.70	0.50
1:B:224:ALA:CB	1:B:262:GLN:CG[4_365]	1.70	0.50
1:B:224:ALA:CB	1:B:262:GLN:OE1[4_365]	1.70	0.50
1:B:298:ARG:CA	1:B:301:THR:CG2[2_475]	1.70	0.50
1:B:308:PRO:CG	1:B:370:THR:OG1[3_675]	1.70	0.50
1:B:317:PHE:CD1	1:B:363:ASP:CA[3_675]	1.70	0.50
1:B:335:LEU:CB	1:B:369:LYS:CG[3_675]	1.70	0.50
1:B:356:ASN:CB	6:B:876:HOH:O[4_365]	1.70	0.50
1:A:99:ASP:N	1:A:211:ALA:CB[8_664]	1.71	0.49
1:A:100:TYR:CD1	1:A:201:TYR:O[8_664]	1.71	0.49
1:A:112:ILE:CG2	1:B:220:LYS:CB[5_454]	1.71	0.49
1:A:119:ARG:C	1:B:264:LYS:CA[8_664]	1.71	0.49
1:A:120:ILE:CD1	1:B:260:PHE:O[8_664]	1.71	0.49
1:A:128:PRO:CG	1:B:223:ILE:O[5_454]	1.71	0.49
1:A:129:HIS:N	1:B:460:PHE:CE2[5_454]	1.71	0.49
1:A:134:ARG:NH1	1:A:391:GLY:N[3_665]	1.71	0.49
1:A:138:PHE:CA	1:A:274:CYS:CB[8_664]	1.71	0.49
1:A:140:HIS:O	1:A:471:GLN:CA[3_675]	1.71	0.49
1:A:146:VAL:N	1:B:273:ASP:N[8_664]	1.71	0.49
1:A:156:PHE:CD2	1:B:271:ASP:CB[8_664]	1.71	0.49
1:A:156:PHE:O	1:B:238:LEU:N[5_454]	1.71	0.49
1:A:159:TYR:N	1:A:265:GLY:N[8_664]	1.71	0.49
1:A:178:ILE:N	6:B:904:HOH:O[5_454]	1.71	0.49
1:A:179:PHE:CZ	1:A:273:ASP:N[8_664]	1.71	0.49
1:A:185:ASP:CB	1:B:233:PHE:CB[5_454]	1.71	0.49
1:A:191:LEU:CB	1:B:243:MET:CB[5_454]	1.71	0.49
1:A:205:ASP:CA	1:A:443:ALA:CA[6_574]	1.71	0.49
1:A:208:LEU:N	1:A:448:ARG:CA[6_574]	1.71	0.49
1:A:209:ASP:OD2	6:A:839:HOH:O[6_574]	1.71	0.49
1:A:230:ASN:O	1:B:245:SER:C[5_454]	1.71	0.49
1:A:231:LYS:C	1:B:244:SER:CB[5_454]	1.71	0.49
1:A:233:PHE:CB	1:A:243:MET:C[5_454]	1.71	0.49
1:A:239:ASP:CA	1:A:455:GLU:CG[6_574]	1.71	0.49
1:A:240:TYR:O	1:A:296:ILE:CG2[5_454]	1.71	0.49
1:A:241:MET:SD	1:A:297:PHE:CA[5_454]	1.71	0.49
1:A:247:PHE:CZ	1:A:294:PRO:O[5_454]	1.71	0.49
1:A:247:PHE:CZ	1:A:294:PRO:CB[5_454]	1.71	0.49
1:A:258:VAL:CB	1:A:321:ARG:NH1[8_664]	1.71	0.49
1:A:258:VAL:CG1	1:B:209:ASP:CB[3_675]	1.71	0.49
1:A:260:PHE:CB	1:B:212:TYR:C[3_675]	1.71	0.49
1:A:263:VAL:CG2	1:A:333:ALA:C[8_664]	1.71	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:269:PHE:CZ	2:A:802:CL:CL[5_454]	1.71	0.49
1:A:275:ILE:C	1:B:217:GLU:OE2[3_675]	1.71	0.49
1:A:313:GLN:N	1:A:316:TYR:OH[8_664]	1.71	0.49
1:A:315:PRO:N	1:A:316:TYR:CD2[8_664]	1.71	0.49
1:A:331:LYS:CB	1:B:207:THR:CG2[5_454]	1.71	0.49
1:A:341:PRO:O	1:A:364:THR:CA[4_465]	1.71	0.49
1:A:371:LYS:C	1:A:375:HIS:C[3_665]	1.71	0.49
1:A:384:ILE:CB	1:A:400:PHE:CZ[4_465]	1.71	0.49
1:A:389:GLN:C	1:A:410:ASP:OD1[4_465]	1.71	0.49
1:A:401:MET:CA	4:A:814:GOL:O1[3_665]	1.71	0.49
1:A:401:MET:CG	6:A:852:HOH:O[4_465]	1.71	0.49
1:A:416:ILE:CG2	1:A:436:GLU:CD[4_465]	1.71	0.49
1:A:420:TYR:CE2	1:A:437:VAL:CG1[4_465]	1.71	0.49
1:A:455:GLU:OE2	1:A:464:ARG:C[2_475]	1.71	0.49
1:A:455:GLU:CG	1:A:464:ARG:CA[2_475]	1.71	0.49
1:A:455:GLU:N	1:A:464:ARG:CB[2_475]	1.71	0.49
1:B:110:SER:OG	1:B:436:GLU:N[3_675]	1.71	0.49
1:B:114:LYS:NZ	1:B:423:GLY:O[3_675]	1.71	0.49
1:B:159:TYR:CB	6:B:866:HOH:O[3_675]	1.71	0.49
1:B:174:LEU:CD1	6:B:911:HOH:O[4_365]	1.71	0.49
1:B:197:ASP:CA	1:B:272:SER:CB[4_365]	1.71	0.49
1:B:312:ASP:O	1:B:358:SER:CB[3_675]	1.71	0.49
1:B:321:ARG:CG	6:B:853:HOH:O[3_675]	1.71	0.49
1:B:333:ALA:C	1:B:365:ALA:O[3_675]	1.71	0.49
1:B:335:LEU:O	1:B:370:THR:CA[3_675]	1.71	0.49
1:B:337:SER:CB	1:B:374:LYS:C[3_675]	1.71	0.49
1:B:425:MET:CA	2:B:808:CL:CL[4_365]	1.71	0.49
1:A:94:SER:CA	1:A:214:TYR:OH[8_664]	1.72	0.48
1:A:98:ILE:O	1:A:447:ALA:N[4_465]	1.72	0.48
1:A:99:ASP:C	1:A:450:LYS:CA[4_465]	1.72	0.48
1:A:99:ASP:OD2	1:A:208:LEU:O[8_664]	1.72	0.48
1:A:109:SER:O	1:A:470:PHE:N[3_675]	1.72	0.48
1:A:112:ILE:CD1	1:A:274:CYS:CA[8_664]	1.72	0.48
1:A:115:GLU:O	1:B:221:ASP:CB[5_454]	1.72	0.48
1:A:117:ILE:CB	1:B:262:GLN:CD[8_664]	1.72	0.48
1:A:120:ILE:CD1	1:B:219:ALA:CB[5_454]	1.72	0.48
1:A:121:GLU:N	1:B:222:ILE:CG1[5_454]	1.72	0.48
1:A:122:ARG:N	1:B:177:PHE:CD2[5_454]	1.72	0.48
1:A:134:ARG:CZ	1:A:391:GLY:N[3_665]	1.72	0.48
1:A:140:HIS:CE1	1:B:279:SER:CA[8_664]	1.72	0.48
1:A:145:GLN:OE1	1:B:277:LYS:CD[8_664]	1.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:153:LYS:CB	1:B:280:PHE:CE2[5_454]	1.72	0.48
1:A:168:ALA:CA	1:A:168:ALA:CA[6_574]	1.72	0.48
1:A:179:PHE:O	1:B:461:MET:N[5_454]	1.72	0.48
1:A:186:VAL:O	1:B:193:ILE:CA[5_454]	1.72	0.48
1:A:202:LEU:O	1:A:338:THR:CG2[8_664]	1.72	0.48
1:A:205:ASP:CG	1:A:444:GLU:N[6_574]	1.72	0.48
1:A:205:ASP:OD1	1:A:443:ALA:CB[6_574]	1.72	0.48
1:A:207:THR:C	1:A:448:ARG:C[6_574]	1.72	0.48
1:A:211:ALA:CA	1:A:449:ARG:C[6_574]	1.72	0.48
1:A:243:MET:CE	1:A:464:ARG:NE[5_454]	1.72	0.48
1:A:247:PHE:CA	1:A:290:SER:O[5_454]	1.72	0.48
1:A:248:TYR:CD2	1:A:297:PHE:CE2[5_454]	1.72	0.48
1:A:250:ASN:CA	6:A:886:HOH:O[5_454]	1.72	0.48
1:A:250:ASN:OD1	1:A:291:ASN:ND2[5_454]	1.72	0.48
1:A:250:ASN:N	1:A:291:ASN:N[5_454]	1.72	0.48
1:A:255:GLN:NE2	1:A:471:GLN:O[5_454]	1.72	0.48
1:A:256:LYS:O	1:B:210:GLN:CG[3_675]	1.72	0.48
1:A:259:THR:CG2	1:B:208:LEU:O[3_675]	1.72	0.48
1:A:259:THR:OG1	6:A:826:HOH:O[8_664]	1.72	0.48
1:A:261:ASN:OD1	1:B:238:LEU:CG[3_675]	1.72	0.48
1:A:271:ASP:CG	1:B:234:ILE:CG2[3_675]	1.72	0.48
1:A:277:LYS:C	1:A:473:HIS:NE2[5_454]	1.72	0.48
1:A:342:ALA:CA	1:A:367:GLN:CD[4_465]	1.72	0.48
1:A:354:ASP:CA	1:A:357:SER:CB[8_664]	1.72	0.48
1:A:399:SER:CA	1:A:435:ILE:CG2[4_465]	1.72	0.48
1:A:403:LEU:CD1	1:A:427:THR:N[3_665]	1.72	0.48
1:A:425:MET:CE	1:A:429:GLU:OE1[3_665]	1.72	0.48
1:A:430:LEU:N	1:A:433:ALA:CA[4_465]	1.72	0.48
1:A:470:PHE:CB	6:A:904:HOH:O[5_454]	1.72	0.48
1:B:100:TYR:CE1	1:B:343:LEU:O[3_675]	1.72	0.48
1:B:104:ILE:CG1	1:B:399:SER:O[3_675]	1.72	0.48
1:B:141:ARG:C	1:B:439:GLN:CD[3_675]	1.72	0.48
1:B:164:PRO:CA	1:B:270:THR:N[4_365]	1.72	0.48
1:B:171:VAL:CB	1:B:318:ARG:CZ[4_365]	1.72	0.48
1:B:221:ASP:CA	1:B:263:VAL:N[4_365]	1.72	0.48
1:B:223:ILE:CG2	6:B:910:HOH:O[4_365]	1.72	0.48
1:B:307:ILE:CD1	1:B:364:THR:C[3_675]	1.72	0.48
1:B:313:GLN:CG	1:B:371:LYS:CE[3_675]	1.72	0.48
1:B:317:PHE:CZ	1:B:367:GLN:OE1[3_675]	1.72	0.48
1:B:320:THR:CA	1:B:446:GLN:CG[3_675]	1.72	0.48
1:B:321:ARG:CA	1:B:443:ALA:CB[3_675]	1.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:322:ASP:CA	1:B:443:ALA:C[3_675]	1.72	0.48
1:B:334:LEU:CB	1:B:368:ILE:CB[3_675]	1.72	0.48
1:B:339:PHE:CD1	1:B:344:GLN:CD[3_675]	1.72	0.48
1:B:339:PHE:CA	1:B:344:GLN:OE1[3_675]	1.72	0.48
1:A:88:TRP:O	1:A:163:GLY:C[8_664]	1.73	0.47
1:A:91:GLN:N	1:A:449:ARG:NE[4_465]	1.73	0.47
1:A:93:SER:CB	1:A:167:GLU:CG[8_664]	1.73	0.47
1:A:99:ASP:CB	1:A:211:ALA:CB[8_664]	1.73	0.47
1:A:99:ASP:CB	1:A:449:ARG:N[4_465]	1.73	0.47
1:A:99:ASP:CB	1:A:449:ARG:CA[4_465]	1.73	0.47
1:A:100:TYR:OH	1:A:204:LYS:CB[8_664]	1.73	0.47
1:A:113:ASP:N	1:B:449:ARG:CZ[5_454]	1.73	0.47
1:A:116:LEU:CD2	1:B:217:GLU:C[5_454]	1.73	0.47
1:A:122:ARG:C	1:B:177:PHE:CD2[5_454]	1.73	0.47
1:A:122:ARG:CA	1:B:177:PHE:CE2[5_454]	1.73	0.47
1:A:130:HIS:CD2	1:A:381:ARG:NH2[3_665]	1.73	0.47
1:A:130:HIS:O	1:A:390:PHE:CE1[3_665]	1.73	0.47
1:A:141:ARG:NE	1:A:282:ALA:CB[8_664]	1.73	0.47
1:A:141:ARG:CG	1:A:279:SER:C[8_664]	1.73	0.47
1:A:144:ASN:O	1:B:164:PRO:O[5_454]	1.73	0.47
1:A:147:LEU:CB	1:B:269:PHE:CB[8_664]	1.73	0.47
1:A:147:LEU:CB	1:B:269:PHE:O[8_664]	1.73	0.47
1:A:151:GLU:OE1	1:B:268:GLY:C[8_664]	1.73	0.47
1:A:151:GLU:CA	5:B:817:TRP:C[5_454]	1.73	0.47
1:A:158:LEU:CA	1:B:239:ASP:CG[5_454]	1.73	0.47
1:A:167:GLU:N	1:A:167:GLU:O[6_574]	1.73	0.47
1:A:179:PHE:CE1	1:A:272:SER:CB[8_664]	1.73	0.47
1:A:181:LYS:CE	1:B:464:ARG:CA[5_454]	1.73	0.47
1:A:182:TRP:N	1:B:464:ARG:NH1[5_454]	1.73	0.47
1:A:199:GLU:O	1:A:450:LYS:CD[6_574]	1.73	0.47
1:A:201:TYR:CB	1:A:447:ALA:O[6_574]	1.73	0.47
1:A:206:LEU:N	1:A:443:ALA:O[6_574]	1.73	0.47
1:A:212:TYR:C	1:A:220:LYS:CB[6_574]	1.73	0.47
1:A:226:GLY:O	1:B:295:GLN:CB[5_454]	1.73	0.47
1:A:228:ASP:OD1	1:B:294:PRO:CD[5_454]	1.73	0.47
1:A:230:ASN:CB	1:B:246:GLY:N[5_454]	1.73	0.47
1:A:263:VAL:CG2	1:A:334:LEU:CA[8_664]	1.73	0.47
1:A:273:ASP:CG	1:B:458:LYS:N[3_675]	1.73	0.47
1:A:317:PHE:CZ	1:A:475:HIS:C[3_675]	1.73	0.47
1:A:324:ALA:C	1:A:326:ARG:NE[8_664]	1.73	0.47
1:A:346:ALA:N	1:A:360:PHE:O[4_465]	1.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:360:PHE:CZ	6:A:909:HOH:O[6_574]	1.73	0.47
1:A:395:ASP:N	1:A:441:LEU:CB[4_465]	1.73	0.47
1:A:401:MET:N	1:A:439:GLN:CG[4_465]	1.73	0.47
1:A:402:TYR:N	4:A:814:GOL:O2[3_665]	1.73	0.47
1:A:459:GLU:CG	1:A:459:GLU:CG[2_475]	1.73	0.47
1:A:467:SER:C	1:B:249:LYS:N[5_454]	1.73	0.47
1:B:198:ASP:O	6:A:857:HOH:O[5_454]	1.73	0.47
1:B:257:HIS:O	6:A:911:HOH:O[8_664]	1.73	0.47
1:B:100:TYR:O	1:B:399:SER:CA[3_675]	1.73	0.47
1:B:106:ARG:C	1:B:406:PHE:CD2[3_675]	1.73	0.47
1:B:106:ARG:CD	1:B:405:PHE:CG[3_675]	1.73	0.47
1:B:111:LYS:O	1:B:429:GLU:O[3_675]	1.73	0.47
1:B:111:LYS:CE	1:B:430:LEU:CD1[3_675]	1.73	0.47
1:B:141:ARG:CA	1:B:439:GLN:OE1[3_675]	1.73	0.47
1:B:167:GLU:OE1	1:B:279:SER:OG[4_365]	1.73	0.47
1:B:197:ASP:CG	1:B:271:ASP:C[4_365]	1.73	0.47
1:B:197:ASP:N	1:B:272:SER:N[4_365]	1.73	0.47
1:B:213:SER:OG	1:B:275:ILE:CA[4_365]	1.73	0.47
1:B:300:ARG:C	1:B:300:ARG:CG[2_475]	1.73	0.47
1:B:300:ARG:CG	1:B:301:THR:N[2_475]	1.73	0.47
1:B:302:ASP:OD2	1:B:303:ILE:CG1[2_475]	1.73	0.47
1:B:307:ILE:N	1:B:366:LYS:N[3_675]	1.73	0.47
1:B:310:ALA:N	1:B:371:LYS:CG[3_675]	1.73	0.47
1:B:317:PHE:CG	1:B:363:ASP:CB[3_675]	1.73	0.47
1:B:333:ALA:C	1:B:365:ALA:C[3_675]	1.73	0.47
1:A:96:LYS:O	1:A:442:ILE:O[4_465]	1.74	0.46
1:A:100:TYR:CG	1:A:201:TYR:O[8_664]	1.74	0.46
1:A:109:SER:N	1:A:298:ARG:CB[3_675]	1.74	0.46
1:A:116:LEU:CG	1:B:263:VAL:CG2[8_664]	1.74	0.46
1:A:122:ARG:NH2	1:B:266:ILE:O[8_664]	1.74	0.46
1:A:122:ARG:CD	1:B:265:GLY:O[8_664]	1.74	0.46
1:A:138:PHE:O	1:B:255:GLN:O[8_664]	1.74	0.46
1:A:140:HIS:CE1	1:B:217:GLU:OE1[5_454]	1.74	0.46
1:A:140:HIS:CA	1:A:473:HIS:ND1[3_675]	1.74	0.46
1:A:141:ARG:NE	1:A:472:HIS:CA[3_675]	1.74	0.46
1:A:142:ASP:CA	1:B:274:CYS:C[8_664]	1.74	0.46
1:A:151:GLU:CB	1:B:163:GLY:N[5_454]	1.74	0.46
1:A:156:PHE:N	1:B:237:ASP:CB[5_454]	1.74	0.46
1:A:157:TYR:CA	1:B:238:LEU:O[5_454]	1.74	0.46
1:A:167:GLU:OE1	1:A:169:MET:CE[6_574]	1.74	0.46
1:A:177:PHE:O	1:B:462:THR:CB[5_454]	1.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:179:PHE:CA	1:B:459:GLU:C[5_454]	1.74	0.46
1:A:182:TRP:C	1:B:460:PHE:O[5_454]	1.74	0.46
1:A:185:ASP:CA	1:B:233:PHE:CG[5_454]	1.74	0.46
1:A:190:PRO:C	1:B:240:TYR:CA[5_454]	1.74	0.46
1:A:199:GLU:OE2	1:A:311:ILE:C[8_664]	1.74	0.46
1:A:200:LYS:CD	1:A:339:PHE:CE2[8_664]	1.74	0.46
1:A:230:ASN:N	1:B:245:SER:CB[5_454]	1.74	0.46
1:A:231:LYS:CD	1:B:240:TYR:OH[5_454]	1.74	0.46
1:A:240:TYR:CB	1:A:295:GLN:OE1[5_454]	1.74	0.46
1:A:247:PHE:N	1:A:293:PHE:N[5_454]	1.74	0.46
1:A:247:PHE:CE2	1:A:295:GLN:N[5_454]	1.74	0.46
1:A:251:VAL:CG1	1:A:300:ARG:CG[5_454]	1.74	0.46
1:A:252:VAL:O	1:A:302:ASP:CB[5_454]	1.74	0.46
1:A:253:LYS:CE	1:A:329:TYR:CA[5_454]	1.74	0.46
1:A:264:LYS:N	1:A:306:LEU:O[8_664]	1.74	0.46
1:A:267:PHE:CE1	1:A:317:PHE:CG[8_664]	1.74	0.46
1:A:273:ASP:CB	1:B:457:VAL:CB[3_675]	1.74	0.46
1:A:281:PRO:CD	1:A:336:HIS:NE2[8_664]	1.74	0.46
1:A:283:ILE:CA	1:A:298:ARG:C[5_454]	1.74	0.46
1:A:284:GLN:N	1:A:318:ARG:NE[8_664]	1.74	0.46
1:A:284:GLN:CG	1:A:315:PRO:CA[8_664]	1.74	0.46
1:A:289:PHE:CE1	1:A:322:ASP:OD2[8_664]	1.74	0.46
1:A:316:TYR:CA	1:A:317:PHE:N[8_664]	1.74	0.46
1:A:334:LEU:CD1	1:A:473:HIS:O[3_675]	1.74	0.46
1:A:338:THR:N	6:B:917:HOH:O[5_454]	1.74	0.46
1:A:342:ALA:N	1:A:363:ASP:CA[4_465]	1.74	0.46
1:A:342:ALA:N	1:A:363:ASP:C[4_465]	1.74	0.46
1:A:365:ALA:C	1:A:402:TYR:CZ[3_665]	1.74	0.46
1:A:369:LYS:CB	1:A:378:SER:CB[2_575]	1.74	0.46
1:A:370:THR:C	1:A:374:LYS:CB[4_465]	1.74	0.46
1:A:384:ILE:CB	1:A:440:PRO:CB[2_575]	1.74	0.46
1:A:389:GLN:NE2	6:A:878:HOH:O[4_465]	1.74	0.46
1:A:429:GLU:N	1:A:430:LEU:N[4_465]	1.74	0.46
1:A:440:PRO:O	6:A:865:HOH:O[2_575]	1.74	0.46
1:A:455:GLU:CB	1:A:462:THR:O[2_475]	1.74	0.46
1:A:458:LYS:CB	1:A:462:THR:CB[2_475]	1.74	0.46
1:A:469:ASP:OD1	1:B:252:VAL:O[5_454]	1.74	0.46
1:B:458:LYS:CD	6:A:906:HOH:O[4_365]	1.74	0.46
1:B:100:TYR:C	1:B:398:VAL:O[3_675]	1.74	0.46
1:B:101:ASP:CB	1:B:400:PHE:CG[3_675]	1.74	0.46
1:B:103:LEU:C	1:B:402:TYR:N[3_675]	1.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:111:LYS:CD	1:B:430:LEU:CD2[3_675]	1.74	0.46
1:B:113:ASP:O	1:B:429:GLU:CG[3_675]	1.74	0.46
1:B:149:ALA:CB	1:B:154:LYS:CD[2_475]	1.74	0.46
1:B:218:ASN:CG	1:B:269:PHE:CG[4_365]	1.74	0.46
1:B:258:VAL:CA	1:B:449:ARG:CG[3_675]	1.74	0.46
1:B:300:ARG:NH2	1:B:303:ILE:CA[2_475]	1.74	0.46
1:B:309:CYS:O	1:B:371:LYS:C[3_675]	1.74	0.46
1:B:326:ARG:NE	1:B:448:ARG:N[3_675]	1.74	0.46
1:B:334:LEU:C	1:B:369:LYS:N[3_675]	1.74	0.46
1:B:337:SER:OG	1:B:375:HIS:CB[3_675]	1.74	0.46
1:B:338:THR:O	1:B:375:HIS:CA[3_675]	1.74	0.46
1:B:339:PHE:CD2	1:B:343:LEU:C[3_675]	1.74	0.46
1:B:346:ALA:C	1:B:347:GLN:OE1[3_675]	1.74	0.46
1:A:112:ILE:CG2	1:B:258:VAL:C[8_664]	1.75	0.45
1:A:114:LYS:C	1:B:445:HIS:CE1[5_454]	1.75	0.45
1:A:131:PHE:N	1:B:456:ILE:CG2[5_454]	1.75	0.45
1:A:136:ILE:CB	1:B:453:THR:OG1[5_454]	1.75	0.45
1:A:140:HIS:CB	1:B:217:GLU:OE2[5_454]	1.75	0.45
1:A:151:GLU:OE2	1:B:268:GLY:CA[8_664]	1.75	0.45
1:A:151:GLU:OE2	6:B:841:HOH:O[5_454]	1.75	0.45
1:A:153:LYS:CA	1:B:280:PHE:CE2[5_454]	1.75	0.45
1:A:154:LYS:CA	1:B:199:GLU:CB[5_454]	1.75	0.45
1:A:155:PRO:O	1:B:198:ASP:N[5_454]	1.75	0.45
1:A:166:SER:CB	1:A:347:GLN:O[8_664]	1.75	0.45
1:A:175:ILE:O	6:B:904:HOH:O[5_454]	1.75	0.45
1:A:180:THR:C	1:B:462:THR:N[5_454]	1.75	0.45
1:A:182:TRP:CB	1:B:464:ARG:NH1[5_454]	1.75	0.45
1:A:205:ASP:CG	1:A:443:ALA:C[6_574]	1.75	0.45
1:A:208:LEU:CD2	1:A:451:GLU:CD[6_574]	1.75	0.45
1:A:233:PHE:CA	1:A:243:MET:CB[5_454]	1.75	0.45
1:A:241:MET:CE	1:A:297:PHE:N[5_454]	1.75	0.45
1:A:257:HIS:O	1:B:207:THR:CG2[3_675]	1.75	0.45
1:A:273:ASP:CG	1:B:454:ASP:O[3_675]	1.75	0.45
1:A:273:ASP:OD1	1:B:458:LYS:N[3_675]	1.75	0.45
1:A:276:GLY:CA	1:A:471:GLN:CD[5_454]	1.75	0.45
1:A:311:ILE:O	1:A:316:TYR:OH[8_664]	1.75	0.45
1:A:347:GLN:O	1:A:362:THR:CB[4_465]	1.75	0.45
1:A:354:ASP:O	1:A:354:ASP:CG[8_664]	1.75	0.45
1:A:365:ALA:O	1:A:402:TYR:CD2[3_665]	1.75	0.45
1:A:373:ASN:O	1:A:373:ASN:CB[3_665]	1.75	0.45
1:A:381:ARG:CD	1:A:405:PHE:N[4_465]	1.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:387:HIS:O	1:A:413:LEU:CD2[4_465]	1.75	0.45
1:A:389:GLN:CG	6:A:878:HOH:O[4_465]	1.75	0.45
1:A:399:SER:CB	1:A:435:ILE:CG1[4_465]	1.75	0.45
1:A:412:LYS:CD	1:A:419:ASP:CA[3_665]	1.75	0.45
1:A:413:LEU:N	1:A:424:ALA:N[3_665]	1.75	0.45
1:A:427:THR:O	1:A:430:LEU:O[4_465]	1.75	0.45
1:A:429:GLU:N	1:A:432:LYS:O[2_575]	1.75	0.45
1:A:430:LEU:CG	1:A:433:ALA:O[4_465]	1.75	0.45
1:A:431:LYS:CA	1:A:432:LYS:N[4_465]	1.75	0.45
1:A:431:LYS:CA	1:A:431:LYS:CB[3_665]	1.75	0.45
1:A:454:ASP:C	1:A:463:PRO:O[2_475]	1.75	0.45
1:A:468:PHE:N	1:B:249:LYS:N[5_454]	1.75	0.45
1:B:208:LEU:CD1	6:A:831:HOH:O[5_454]	1.75	0.45
1:B:99:ASP:CB	1:B:401:MET:CG[3_675]	1.75	0.45
1:B:106:ARG:NH1	1:B:405:PHE:CE1[3_675]	1.75	0.45
1:B:107:PHE:C	1:B:406:PHE:CD2[3_675]	1.75	0.45
1:B:110:SER:N	1:B:434:LEU:CA[3_675]	1.75	0.45
1:B:111:LYS:CD	1:B:430:LEU:CA[3_675]	1.75	0.45
1:B:136:ILE:C	1:B:373:ASN:O[3_675]	1.75	0.45
1:B:165:SER:N	1:B:273:ASP:OD2[4_365]	1.75	0.45
1:B:167:GLU:OE1	1:B:279:SER:N[4_365]	1.75	0.45
1:B:257:HIS:C	1:B:450:LYS:CA[3_675]	1.75	0.45
1:B:300:ARG:N	1:B:300:ARG:CA[2_475]	1.75	0.45
1:B:311:ILE:CG2	1:B:343:LEU:CG[3_675]	1.75	0.45
1:B:323:VAL:CB	1:B:446:GLN:O[3_675]	1.75	0.45
1:B:347:GLN:N	1:B:347:GLN:CG[3_675]	1.75	0.45
1:A:92:THR:CA	1:A:166:SER:N[8_664]	1.76	0.44
1:A:99:ASP:O	1:A:197:ASP:O[8_664]	1.76	0.44
1:A:100:TYR:CZ	1:A:200:LYS:O[8_664]	1.76	0.44
1:A:101:ASP:CG	1:A:201:TYR:CE2[8_664]	1.76	0.44
1:A:107:PHE:CB	1:A:283:ILE:CB[8_664]	1.76	0.44
1:A:110:SER:C	1:A:471:GLN:OE1[3_675]	1.76	0.44
1:A:116:LEU:CB	1:B:221:ASP:OD2[5_454]	1.76	0.44
1:A:116:LEU:O	1:B:263:VAL:CA[8_664]	1.76	0.44
1:A:124:THR:CB	1:B:193:ILE:CD1[5_454]	1.76	0.44
1:A:131:PHE:CA	1:B:456:ILE:CD1[5_454]	1.76	0.44
1:A:141:ARG:NH1	1:A:280:PHE:C[8_664]	1.76	0.44
1:A:141:ARG:NE	1:A:279:SER:O[8_664]	1.76	0.44
1:A:145:GLN:OE1	1:B:214:TYR:CZ[5_454]	1.76	0.44
1:A:147:LEU:CB	1:B:270:THR:N[8_664]	1.76	0.44
1:A:150:TYR:OH	1:B:194:GLN:CA[5_454]	1.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:168:ALA:N	1:A:168:ALA:CA[6_574]	1.76	0.44
1:A:179:PHE:O	1:A:270:THR:OG1[8_664]	1.76	0.44
1:A:181:LYS:C	1:B:462:THR:C[5_454]	1.76	0.44
1:A:184:GLN:CA	1:B:233:PHE:CE1[5_454]	1.76	0.44
1:A:187:PHE:CD1	1:B:235:PHE:N[5_454]	1.76	0.44
1:A:189:VAL:C	1:B:240:TYR:CD2[5_454]	1.76	0.44
1:A:201:TYR:CE1	1:A:451:GLU:OE2[6_574]	1.76	0.44
1:A:213:SER:CB	1:A:219:ALA:O[6_574]	1.76	0.44
1:A:214:TYR:CE2	1:A:221:ASP:OD2[6_574]	1.76	0.44
1:A:239:ASP:OD1	1:A:455:GLU:C[6_574]	1.76	0.44
1:A:239:ASP:C	1:A:464:ARG:N[5_454]	1.76	0.44
1:A:250:ASN:C	1:A:300:ARG:C[5_454]	1.76	0.44
1:A:259:THR:N	6:A:837:HOH:O[8_664]	1.76	0.44
1:A:260:PHE:O	1:A:306:LEU:CB[8_664]	1.76	0.44
1:A:261:ASN:CG	1:B:197:ASP:OD2[3_675]	1.76	0.44
1:A:261:ASN:ND2	1:B:197:ASP:OD2[3_675]	1.76	0.44
1:A:262:GLN:N	1:A:305:CYS:CA[8_664]	1.76	0.44
1:A:264:LYS:C	1:A:475:HIS:CE1[5_454]	1.76	0.44
1:A:267:PHE:CE2	1:A:317:PHE:CD2[8_664]	1.76	0.44
1:A:268:GLY:N	1:A:308:PRO:O[8_664]	1.76	0.44
1:A:277:LYS:CD	1:A:337:SER:CA[8_664]	1.76	0.44
1:A:282:ALA:O	1:A:299:ASP:CA[5_454]	1.76	0.44
1:A:304:GLN:N	6:A:897:HOH:O[8_664]	1.76	0.44
1:A:307:ILE:CA	1:A:475:HIS:NE2[3_675]	1.76	0.44
1:A:316:TYR:N	1:A:316:TYR:CG[8_664]	1.76	0.44
1:A:325:PRO:C	1:A:326:ARG:N[8_664]	1.76	0.44
1:A:344:GLN:N	1:A:371:LYS:CD[4_465]	1.76	0.44
1:A:370:THR:O	1:A:375:HIS:CA[2_575]	1.76	0.44
1:A:371:LYS:CB	1:A:376:ALA:N[3_665]	1.76	0.44
1:A:375:HIS:CG	1:A:375:HIS:CE1[3_665]	1.76	0.44
1:A:391:GLY:O	1:A:407:LEU:N[4_465]	1.76	0.44
1:A:392:GLY:N	1:A:407:LEU:C[4_465]	1.76	0.44
1:A:393:ASN:N	1:A:406:PHE:CB[4_465]	1.76	0.44
1:A:400:PHE:CA	4:A:814:GOL:C2[3_665]	1.76	0.44
1:A:430:LEU:O	1:A:432:LYS:O[4_465]	1.76	0.44
1:A:448:ARG:NH2	1:B:465:LYS:NZ[5_454]	1.76	0.44
1:A:468:PHE:CE2	1:B:247:PHE:CE1[5_454]	1.76	0.44
1:B:98:ILE:N	1:B:346:ALA:N[3_675]	1.76	0.44
1:B:100:TYR:CZ	1:B:343:LEU:O[3_675]	1.76	0.44
1:B:101:ASP:O	1:B:400:PHE:CA[3_675]	1.76	0.44
1:B:105:VAL:CG2	1:B:404:THR:N[3_675]	1.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:142:ASP:N	1:B:439:GLN:OE1[3_675]	1.76	0.44
1:B:165:SER:C	6:B:867:HOH:O[4_365]	1.76	0.44
1:B:210:GLN:O	1:B:275:ILE:N[4_365]	1.76	0.44
1:B:210:GLN:CA	1:B:274:CYS:CA[4_365]	1.76	0.44
1:B:259:THR:CG2	1:B:452:VAL:CG1[3_675]	1.76	0.44
1:B:299:ASP:CG	1:B:299:ASP:OD1[2_475]	1.76	0.44
1:B:313:GLN:OE1	1:B:360:PHE:CD1[3_675]	1.76	0.44
1:B:318:ARG:C	1:B:442:ILE:CA[3_675]	1.76	0.44
1:B:322:ASP:OD2	1:B:444:GLU:OE2[3_675]	1.76	0.44
1:B:335:LEU:CG	1:B:369:LYS:CD[3_675]	1.76	0.44
1:A:91:GLN:N	1:A:214:TYR:CB[8_664]	1.77	0.43
1:A:99:ASP:O	1:A:451:GLU:N[4_465]	1.77	0.43
1:A:102:LYS:CA	1:A:238:LEU:CG[8_664]	1.77	0.43
1:A:107:PHE:CD2	1:A:280:PHE:CE2[8_664]	1.77	0.43
1:A:109:SER:OG	1:A:298:ARG:NH1[3_675]	1.77	0.43
1:A:118:ASN:CB	1:B:266:ILE:CG1[8_664]	1.77	0.43
1:A:119:ARG:CD	1:B:263:VAL:O[8_664]	1.77	0.43
1:A:122:ARG:CA	1:B:177:PHE:CD1[5_454]	1.77	0.43
1:A:126:GLN:CG	1:B:191:LEU:CD2[5_454]	1.77	0.43
1:A:137:PHE:CE2	1:A:273:ASP:OD2[8_664]	1.77	0.43
1:A:140:HIS:CB	1:A:278:ILE:CB[8_664]	1.77	0.43
1:A:143:MET:CA	1:B:214:TYR:CA[5_454]	1.77	0.43
1:A:144:ASN:OD1	1:B:218:ASN:ND2[5_454]	1.77	0.43
1:A:157:TYR:CZ	1:A:249:LYS:CD[5_454]	1.77	0.43
1:A:179:PHE:CD2	1:B:457:VAL:C[5_454]	1.77	0.43
1:A:183:LEU:CB	1:B:461:MET:CA[5_454]	1.77	0.43
1:A:186:VAL:CB	1:B:234:ILE:N[5_454]	1.77	0.43
1:A:190:PRO:C	1:B:241:MET:N[5_454]	1.77	0.43
1:A:191:LEU:C	1:B:243:MET:N[5_454]	1.77	0.43
1:A:191:LEU:C	1:B:243:MET:CB[5_454]	1.77	0.43
1:A:192:VAL:CG1	1:A:245:SER:CA[5_454]	1.77	0.43
1:A:197:ASP:OD2	1:A:452:VAL:C[6_574]	1.77	0.43
1:A:205:ASP:OD2	1:A:443:ALA:C[6_574]	1.77	0.43
1:A:226:GLY:N	6:A:816:HOH:O[3_665]	1.77	0.43
1:A:231:LYS:C	1:B:244:SER:C[5_454]	1.77	0.43
1:A:235:PHE:O	1:A:454:ASP:CG[6_574]	1.77	0.43
1:A:244:SER:CB	1:A:293:PHE:CG[5_454]	1.77	0.43
1:A:249:LYS:CA	1:A:290:SER:OG[5_454]	1.77	0.43
1:A:260:PHE:CA	1:B:212:TYR:CG[3_675]	1.77	0.43
1:A:269:PHE:CD2	1:A:335:LEU:N[8_664]	1.77	0.43
1:A:276:GLY:CA	1:A:471:GLN:OE1[5_454]	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:281:PRO:CB	1:A:334:LEU:CD2[8_664]	1.77	0.43
1:A:305:CYS:O	1:B:212:TYR:CB[5_454]	1.77	0.43
1:A:307:ILE:CG1	1:A:475:HIS:CG[3_675]	1.77	0.43
1:A:317:PHE:CB	1:A:474:HIS:NE2[3_675]	1.77	0.43
1:A:319:MET:CB	1:A:320:THR:OG1[8_664]	1.77	0.43
1:A:347:GLN:C	1:A:362:THR:OG1[4_465]	1.77	0.43
1:A:351:SER:CA	1:A:351:SER:OG[8_664]	1.77	0.43
1:A:351:SER:N	1:A:353:SER:OG[8_664]	1.77	0.43
1:A:364:THR:O	1:A:402:TYR:CE1[3_665]	1.77	0.43
1:A:371:LYS:CA	1:A:375:HIS:CA[3_665]	1.77	0.43
1:A:372:VAL:C	1:A:372:VAL:C[3_665]	1.77	0.43
1:A:397:ASP:O	1:A:439:GLN:CA[4_465]	1.77	0.43
1:A:400:PHE:CE2	1:A:440:PRO:CG[4_465]	1.77	0.43
1:A:408:GLU:N	1:A:421:THR:O[3_665]	1.77	0.43
1:A:418:LYS:N	2:A:807:CL:CL[3_665]	1.77	0.43
1:A:420:TYR:CE2	1:A:437:VAL:CG2[4_465]	1.77	0.43
1:A:431:LYS:CB	6:A:844:HOH:O[2_575]	1.77	0.43
1:A:459:GLU:CD	1:A:459:GLU:CD[2_475]	1.77	0.43
1:B:111:LYS:C	1:B:433:ALA:N[3_675]	1.77	0.43
1:B:138:PHE:N	1:B:431:LYS:NZ[3_675]	1.77	0.43
1:B:139:SER:CB	1:B:372:VAL:CG1[3_675]	1.77	0.43
1:B:141:ARG:CZ	1:B:438:LEU:O[3_675]	1.77	0.43
1:B:148:ASP:OD2	1:B:152:ASN:CG[2_475]	1.77	0.43
1:B:148:ASP:CG	1:B:152:ASN:CG[2_475]	1.77	0.43
1:B:179:PHE:CB	1:B:374:LYS:CD[3_675]	1.77	0.43
1:B:197:ASP:O	1:B:272:SER:CA[4_365]	1.77	0.43
1:B:217:GLU:N	1:B:278:ILE:CG2[4_365]	1.77	0.43
1:B:221:ASP:CB	1:B:263:VAL:CA[4_365]	1.77	0.43
1:B:258:VAL:CB	1:B:449:ARG:CD[3_675]	1.77	0.43
1:B:316:TYR:CA	1:B:361:LEU:C[3_675]	1.77	0.43
1:B:337:SER:OG	1:B:375:HIS:CG[3_675]	1.77	0.43
1:A:102:LYS:CB	1:A:238:LEU:CG[8_664]	1.78	0.42
1:A:103:LEU:CB	1:A:198:ASP:N[8_664]	1.78	0.42
1:A:105:VAL:O	1:A:241:MET:CE[8_664]	1.78	0.42
1:A:106:ARG:CZ	1:A:235:PHE:O[8_664]	1.78	0.42
1:A:108:GLY:CA	1:A:297:PHE:O[3_675]	1.78	0.42
1:A:110:SER:C	1:B:255:GLN:CD[8_664]	1.78	0.42
1:A:114:LYS:CE	1:B:445:HIS:O[5_454]	1.78	0.42
1:A:141:ARG:NH2	1:A:283:ILE:N[8_664]	1.78	0.42
1:A:141:ARG:N	1:A:279:SER:N[8_664]	1.78	0.42
1:A:141:ARG:CG	1:A:279:SER:O[8_664]	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:ASP:OD2	1:A:258:VAL:O[8_664]	1.78	0.42
1:A:144:ASN:CB	1:B:167:GLU:N[5_454]	1.78	0.42
1:A:150:TYR:N	1:B:270:THR:CB[8_664]	1.78	0.42
1:A:150:TYR:N	1:B:270:THR:OG1[8_664]	1.78	0.42
1:A:152:ASN:C	1:B:199:GLU:OE1[5_454]	1.78	0.42
1:A:152:ASN:O	1:B:199:GLU:CD[5_454]	1.78	0.42
1:A:153:LYS:C	1:B:280:PHE:CE1[5_454]	1.78	0.42
1:A:155:PRO:N	1:B:198:ASP:CG[5_454]	1.78	0.42
1:A:159:TYR:N	1:B:239:ASP:OD1[5_454]	1.78	0.42
1:A:169:MET:O	1:A:347:GLN:OE1[3_665]	1.78	0.42
1:A:181:LYS:CA	1:B:463:PRO:CA[5_454]	1.78	0.42
1:A:187:PHE:CD1	1:A:271:ASP:OD2[8_664]	1.78	0.42
1:A:189:VAL:C	1:B:240:TYR:CB[5_454]	1.78	0.42
1:A:192:VAL:CG1	1:A:245:SER:CB[5_454]	1.78	0.42
1:A:201:TYR:CD1	1:A:447:ALA:C[6_574]	1.78	0.42
1:A:203:TRP:CZ3	1:A:311:ILE:CB[8_664]	1.78	0.42
1:A:206:LEU:N	1:A:447:ALA:N[6_574]	1.78	0.42
1:A:206:LEU:CD2	1:A:446:GLN:N[6_574]	1.78	0.42
1:A:210:GLN:CB	1:A:224:ALA:CB[6_574]	1.78	0.42
1:A:212:TYR:O	1:A:220:LYS:CB[6_574]	1.78	0.42
1:A:214:TYR:CA	1:A:449:ARG:NH2[6_574]	1.78	0.42
1:A:217:GLU:C	1:A:217:GLU:CB[6_574]	1.78	0.42
1:A:231:LYS:NZ	1:B:292:SER:O[5_454]	1.78	0.42
1:A:236:SER:CA	1:A:454:ASP:N[6_574]	1.78	0.42
1:A:238:LEU:C	1:A:465:LYS:O[5_454]	1.78	0.42
1:A:249:LYS:CA	1:A:290:SER:CA[5_454]	1.78	0.42
1:A:253:LYS:CE	1:A:329:TYR:CB[5_454]	1.78	0.42
1:A:258:VAL:CG1	1:A:332:PRO:C[8_664]	1.78	0.42
1:A:258:VAL:C	6:A:837:HOH:O[8_664]	1.78	0.42
1:A:269:PHE:CE1	1:A:335:LEU:O[8_664]	1.78	0.42
1:A:277:LYS:NZ	1:A:337:SER:CB[8_664]	1.78	0.42
1:A:282:ALA:CA	1:A:472:HIS:NE2[5_454]	1.78	0.42
1:A:317:PHE:CB	1:A:319:MET:CE[8_664]	1.78	0.42
1:A:325:PRO:CB	1:A:326:ARG:C[8_664]	1.78	0.42
1:A:371:LYS:O	1:A:375:HIS:CA[3_665]	1.78	0.42
1:A:381:ARG:N	1:A:402:TYR:C[4_465]	1.78	0.42
1:A:382:ASP:OD1	1:A:405:PHE:CZ[4_465]	1.78	0.42
1:A:384:ILE:N	1:A:440:PRO:CA[2_575]	1.78	0.42
1:A:409:ASP:C	1:A:422:SER:C[3_665]	1.78	0.42
1:A:412:LYS:C	1:A:423:GLY:C[3_665]	1.78	0.42
1:A:428:GLY:N	1:A:430:LEU:C[4_465]	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:445:HIS:N	6:A:855:HOH:O[3_665]	1.78	0.42
1:B:207:THR:C	6:A:835:HOH:O[5_454]	1.78	0.42
5:B:817:TRP:NE1	6:A:843:HOH:O[5_454]	1.78	0.42
1:B:94:SER:OG	1:B:95:ALA:C[3_675]	1.78	0.42
1:B:100:TYR:CB	1:B:398:VAL:C[3_675]	1.78	0.42
1:B:100:TYR:CA	1:B:399:SER:N[3_675]	1.78	0.42
1:B:100:TYR:O	1:B:398:VAL:C[3_675]	1.78	0.42
1:B:108:GLY:O	1:B:437:VAL:CA[3_675]	1.78	0.42
1:B:138:PHE:CA	1:B:431:LYS:CE[3_675]	1.78	0.42
1:B:139:SER:O	1:B:435:ILE:CG1[3_675]	1.78	0.42
1:B:139:SER:CA	1:B:372:VAL:CG1[3_675]	1.78	0.42
1:B:206:LEU:CG	6:B:883:HOH:O[4_365]	1.78	0.42
1:B:211:ALA:N	1:B:274:CYS:CA[4_365]	1.78	0.42
1:B:299:ASP:CA	1:B:299:ASP:O[2_475]	1.78	0.42
1:B:307:ILE:CG2	1:B:367:GLN:CG[3_675]	1.78	0.42
1:B:309:CYS:CB	1:B:371:LYS:CG[3_675]	1.78	0.42
1:B:314:ASP:O	1:B:442:ILE:CD1[3_675]	1.78	0.42
1:B:315:PRO:O	1:B:361:LEU:CB[3_675]	1.78	0.42
1:B:318:ARG:C	1:B:442:ILE:C[3_675]	1.78	0.42
1:B:318:ARG:O	1:B:442:ILE:CA[3_675]	1.78	0.42
1:B:318:ARG:CG	1:B:441:LEU:CD2[3_675]	1.78	0.42
1:B:319:MET:O	1:B:446:GLN:N[3_675]	1.78	0.42
1:B:320:THR:C	1:B:446:GLN:CD[3_675]	1.78	0.42
1:B:321:ARG:CB	1:B:443:ALA:N[3_675]	1.78	0.42
1:B:322:ASP:C	1:B:443:ALA:O[3_675]	1.78	0.42
1:B:336:HIS:CE1	1:B:368:ILE:CG2[3_675]	1.78	0.42
1:B:386:GLU:OE1	1:B:414:GLU:OE1[4_365]	1.78	0.42
1:A:93:SER:CB	1:A:221:ASP:OD1[4_465]	1.79	0.41
1:A:99:ASP:OD1	1:A:451:GLU:CB[4_465]	1.79	0.41
1:A:102:LYS:C	1:A:450:LYS:O[4_465]	1.79	0.41
1:A:103:LEU:O	1:A:198:ASP:CB[8_664]	1.79	0.41
1:A:103:LEU:C	1:A:198:ASP:CA[8_664]	1.79	0.41
1:A:114:LYS:N	1:B:449:ARG:CD[5_454]	1.79	0.41
1:A:118:ASN:CA	1:B:262:GLN:O[8_664]	1.79	0.41
1:A:120:ILE:CA	1:B:261:ASN:O[8_664]	1.79	0.41
1:A:120:ILE:O	1:B:222:ILE:CD1[5_454]	1.79	0.41
1:A:136:ILE:C	1:B:453:THR:CB[5_454]	1.79	0.41
1:A:140:HIS:C	1:A:279:SER:CA[8_664]	1.79	0.41
1:A:140:HIS:O	1:A:471:GLN:C[3_675]	1.79	0.41
1:A:141:ARG:CD	1:A:279:SER:O[8_664]	1.79	0.41
1:A:142:ASP:N	1:B:213:SER:CB[5_454]	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:ASP:CA	1:B:274:CYS:O[8_664]	1.79	0.41
1:A:142:ASP:OD2	1:A:255:GLN:O[8_664]	1.79	0.41
1:A:143:MET:CA	1:B:213:SER:C[5_454]	1.79	0.41
1:A:152:ASN:CA	1:B:199:GLU:CD[5_454]	1.79	0.41
1:A:153:LYS:O	1:B:280:PHE:CD1[5_454]	1.79	0.41
1:A:179:PHE:CB	1:B:459:GLU:CA[5_454]	1.79	0.41
1:A:182:TRP:O	1:B:233:PHE:CA[5_454]	1.79	0.41
1:A:182:TRP:CB	1:B:460:PHE:O[5_454]	1.79	0.41
1:A:187:PHE:CE1	1:B:234:ILE:CG2[5_454]	1.79	0.41
1:A:197:ASP:O	1:A:450:LYS:C[6_574]	1.79	0.41
1:A:206:LEU:CD1	1:A:446:GLN:CA[6_574]	1.79	0.41
1:A:217:GLU:CA	1:A:218:ASN:N[6_574]	1.79	0.41
1:A:250:ASN:ND2	1:A:291:ASN:CG[5_454]	1.79	0.41
1:A:251:VAL:CB	1:A:300:ARG:N[5_454]	1.79	0.41
1:A:255:GLN:CB	1:A:300:ARG:NE[5_454]	1.79	0.41
1:A:257:HIS:CA	1:B:207:THR:CB[3_675]	1.79	0.41
1:A:280:PHE:N	1:A:336:HIS:NE2[8_664]	1.79	0.41
1:A:284:GLN:N	1:A:318:ARG:NH1[8_664]	1.79	0.41
1:A:289:PHE:CE2	1:A:322:ASP:OD1[8_664]	1.79	0.41
1:A:304:GLN:NE2	1:B:212:TYR:N[5_454]	1.79	0.41
1:A:307:ILE:N	1:B:212:TYR:CE2[5_454]	1.79	0.41
1:A:340:PHE:C	1:A:364:THR:CB[4_465]	1.79	0.41
1:A:341:PRO:C	1:A:363:ASP:C[4_465]	1.79	0.41
1:A:366:LYS:O	1:A:402:TYR:CE2[3_665]	1.79	0.41
1:A:384:ILE:CG1	1:A:400:PHE:CE2[4_465]	1.79	0.41
1:A:384:ILE:CG1	1:A:400:PHE:CE1[4_465]	1.79	0.41
1:A:395:ASP:C	1:A:441:LEU:O[4_465]	1.79	0.41
1:A:397:ASP:CA	1:A:438:LEU:C[4_465]	1.79	0.41
1:B:160:THR:N	6:A:822:HOH:O[5_454]	1.79	0.41
1:B:256:LYS:CE	6:A:907:HOH:O[8_664]	1.79	0.41
1:B:138:PHE:N	1:B:431:LYS:CG[3_675]	1.79	0.41
1:B:144:ASN:O	1:B:152:ASN:OD1[2_475]	1.79	0.41
1:B:169:MET:CB	1:B:267:PHE:CA[4_365]	1.79	0.41
1:B:234:ILE:CD1	1:B:261:ASN:ND2[4_365]	1.79	0.41
1:B:257:HIS:CD2	1:B:450:LYS:CG[3_675]	1.79	0.41
1:B:307:ILE:CA	1:B:366:LYS:CB[3_675]	1.79	0.41
1:B:426:LEU:N	2:B:808:CL:CL[4_365]	1.79	0.41
1:A:94:SER:OG	1:A:210:GLN:NE2[8_664]	1.80	0.40
1:A:98:ILE:N	1:A:446:GLN:CA[4_465]	1.80	0.40
1:A:98:ILE:O	1:A:206:LEU:CB[8_664]	1.80	0.40
1:A:116:LEU:CD1	1:B:217:GLU:O[5_454]	1.80	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:121:GLU:OE1	1:B:225:CYS:CA[5_454]	1.80	0.40
1:A:122:ARG:CD	1:B:173:HIS:C[5_454]	1.80	0.40
1:A:126:GLN:N	1:B:191:LEU:CD2[5_454]	1.80	0.40
1:A:132:LEU:CG	1:A:272:SER:C[8_664]	1.80	0.40
1:A:137:PHE:O	1:A:274:CYS:CB[8_664]	1.80	0.40
1:A:139:SER:O	1:A:277:LYS:N[8_664]	1.80	0.40
1:A:141:ARG:CZ	1:A:282:ALA:CA[8_664]	1.80	0.40
1:A:142:ASP:O	1:B:278:ILE:CD1[8_664]	1.80	0.40
1:A:146:VAL:O	1:B:270:THR:CA[8_664]	1.80	0.40
1:A:148:ASP:CA	1:B:165:SER:N[5_454]	1.80	0.40
1:A:151:GLU:N	1:B:163:GLY:CA[5_454]	1.80	0.40
1:A:159:TYR:C	1:A:265:GLY:CA[8_664]	1.80	0.40
1:A:169:MET:O	1:A:347:GLN:CG[3_665]	1.80	0.40
1:A:181:LYS:CB	1:B:462:THR:O[5_454]	1.80	0.40
1:A:181:LYS:CG	1:B:464:ARG:CB[5_454]	1.80	0.40
1:A:182:TRP:CH2	1:B:234:ILE:CG1[5_454]	1.80	0.40
1:A:189:VAL:C	1:B:240:TYR:CG[5_454]	1.80	0.40
1:A:190:PRO:CB	1:B:241:MET:N[5_454]	1.80	0.40
1:A:190:PRO:O	1:B:241:MET:N[5_454]	1.80	0.40
1:A:191:LEU:CD2	1:B:243:MET:SD[5_454]	1.80	0.40
1:A:203:TRP:CD2	1:A:311:ILE:CG1[8_664]	1.80	0.40
1:A:208:LEU:CG	1:A:451:GLU:CB[6_574]	1.80	0.40
1:A:209:ASP:CB	1:A:223:ILE:C[6_574]	1.80	0.40
1:A:229:ILE:O	1:B:245:SER:OG[5_454]	1.80	0.40
1:A:236:SER:CA	1:A:454:ASP:CG[6_574]	1.80	0.40
1:A:238:LEU:CB	1:A:453:THR:CG2[6_574]	1.80	0.40
1:A:240:TYR:CB	1:A:455:GLU:OE1[6_574]	1.80	0.40
1:A:243:MET:CE	1:A:455:GLU:CB[6_574]	1.80	0.40
1:A:249:LYS:NZ	1:A:305:CYS:SG[5_454]	1.80	0.40
1:A:250:ASN:O	1:A:300:ARG:O[5_454]	1.80	0.40
1:A:257:HIS:CA	1:B:207:THR:CG2[3_675]	1.80	0.40
1:A:260:PHE:C	1:A:306:LEU:CA[8_664]	1.80	0.40
1:A:260:PHE:C	1:B:212:TYR:CB[3_675]	1.80	0.40
1:A:260:PHE:CG	1:A:306:LEU:CD1[8_664]	1.80	0.40
1:A:262:GLN:OE1	6:A:820:HOH:O[8_664]	1.80	0.40
1:A:264:LYS:CB	1:A:306:LEU:C[8_664]	1.80	0.40
1:A:267:PHE:CB	1:A:309:CYS:SG[8_664]	1.80	0.40
1:A:273:ASP:N	1:B:457:VAL:CG1[3_675]	1.80	0.40
1:A:275:ILE:CG1	1:B:217:GLU:OE1[3_675]	1.80	0.40
1:A:277:LYS:CD	1:B:454:ASP:CA[3_675]	1.80	0.40
1:A:281:PRO:CB	1:A:474:HIS:CE1[5_454]	1.80	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:304:GLN:OE1	1:B:272:SER:O[8_664]	1.80	0.40
1:A:307:ILE:CD1	1:A:475:HIS:CB[3_675]	1.80	0.40
1:A:313:GLN:C	1:A:316:TYR:CE2[8_664]	1.80	0.40
1:A:329:TYR:CE1	1:A:329:TYR:CZ[5_454]	1.80	0.40
1:A:329:TYR:O	4:B:812:GOL:C3[5_454]	1.80	0.40
1:A:336:HIS:O	1:B:454:ASP:CA[5_454]	1.80	0.40
1:A:347:GLN:CA	1:A:361:LEU:C[4_465]	1.80	0.40
1:A:369:LYS:CE	1:A:397:ASP:OD2[2_575]	1.80	0.40
1:A:369:LYS:CE	1:A:438:LEU:CD1[3_665]	1.80	0.40
1:A:388:ARG:CB	6:A:856:HOH:O[4_465]	1.80	0.40
1:A:402:TYR:N	1:A:439:GLN:CD[4_465]	1.80	0.40
1:A:426:LEU:CA	1:A:436:GLU:OE2[2_575]	1.80	0.40
1:A:429:GLU:N	1:A:430:LEU:O[4_465]	1.80	0.40
1:A:432:LYS:N	1:A:432:LYS:N[3_665]	1.80	0.40
1:A:435:ILE:N	6:A:892:HOH:O[2_575]	1.80	0.40
1:A:467:SER:C	1:B:247:PHE:O[5_454]	1.80	0.40
1:A:468:PHE:C	1:B:248:TYR:O[5_454]	1.80	0.40
1:B:173:HIS:CD2	6:A:819:HOH:O[5_454]	1.80	0.40
1:B:99:ASP:CA	1:B:401:MET:CE[3_675]	1.80	0.40
1:B:101:ASP:CA	1:B:400:PHE:C[3_675]	1.80	0.40
1:B:110:SER:C	1:B:434:LEU:CA[3_675]	1.80	0.40
1:B:111:LYS:CA	1:B:430:LEU:C[3_675]	1.80	0.40
1:B:138:PHE:CZ	1:B:376:ALA:CB[3_675]	1.80	0.40
1:B:165:SER:O	1:B:277:LYS:NZ[4_365]	1.80	0.40
1:B:169:MET:CE	1:B:263:VAL:O[4_365]	1.80	0.40
1:B:220:LYS:N	1:B:259:THR:O[4_365]	1.80	0.40
1:B:257:HIS:CB	1:B:450:LYS:CG[3_675]	1.80	0.40
1:B:300:ARG:N	1:B:300:ARG:O[2_475]	1.80	0.40
1:B:311:ILE:CG2	1:B:343:LEU:CD2[3_675]	1.80	0.40
1:B:321:ARG:O	1:B:443:ALA:O[3_675]	1.80	0.40
1:B:322:ASP:CG	1:B:445:HIS:CA[3_675]	1.80	0.40
1:B:334:LEU:CG	1:B:368:ILE:CG1[3_675]	1.80	0.40
1:B:334:LEU:CD2	1:B:368:ILE:CD1[3_675]	1.80	0.40
1:B:335:LEU:N	1:B:369:LYS:C[3_675]	1.80	0.40
1:B:336:HIS:N	1:B:369:LYS:O[3_675]	1.80	0.40
1:B:339:PHE:CB	1:B:344:GLN:N[3_675]	1.80	0.40
1:B:367:GLN:NE2	5:B:817:TRP:CH2[4_365]	1.80	0.40
1:A:94:SER:OG	1:A:445:HIS:CE1[4_465]	1.81	0.39
1:A:102:LYS:CG	1:A:452:VAL:CA[4_465]	1.81	0.39
1:A:103:LEU:N	1:A:198:ASP:N[8_664]	1.81	0.39
1:A:106:ARG:NH1	1:A:236:SER:C[8_664]	1.81	0.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:113:ASP:OD1	1:B:449:ARG:NE[5_454]	1.81	0.39
1:A:117:ILE:CA	1:B:221:ASP:C[5_454]	1.81	0.39
1:A:119:ARG:NH2	1:B:162:ARG:CZ[5_454]	1.81	0.39
1:A:120:ILE:CG2	1:B:261:ASN:CA[8_664]	1.81	0.39
1:A:126:GLN:NE2	1:B:191:LEU:N[5_454]	1.81	0.39
1:A:127:ARG:CB	1:B:227:PHE:C[5_454]	1.81	0.39
1:A:129:HIS:C	1:B:460:PHE:CZ[5_454]	1.81	0.39
1:A:132:LEU:CD1	1:B:223:ILE:CG1[5_454]	1.81	0.39
1:A:136:ILE:O	6:B:917:HOH:O[5_454]	1.81	0.39
1:A:138:PHE:CG	6:B:916:HOH:O[5_454]	1.81	0.39
1:A:139:SER:N	1:B:454:ASP:OD1[5_454]	1.81	0.39
1:A:139:SER:O	1:A:473:HIS:NE2[3_675]	1.81	0.39
1:A:140:HIS:C	1:A:279:SER:CB[8_664]	1.81	0.39
1:A:141:ARG:NH2	1:A:282:ALA:C[8_664]	1.81	0.39
1:A:145:GLN:CB	1:B:273:ASP:CA[8_664]	1.81	0.39
1:A:146:VAL:O	1:B:271:ASP:N[8_664]	1.81	0.39
1:A:147:LEU:C	1:B:269:PHE:C[8_664]	1.81	0.39
1:A:156:PHE:CE2	1:B:271:ASP:CB[8_664]	1.81	0.39
1:A:156:PHE:CA	1:B:238:LEU:N[5_454]	1.81	0.39
1:A:157:TYR:N	1:B:237:ASP:C[5_454]	1.81	0.39
1:A:179:PHE:CD1	1:B:457:VAL:O[5_454]	1.81	0.39
1:A:179:PHE:CD2	1:B:458:LYS:C[5_454]	1.81	0.39
1:A:181:LYS:CD	1:B:464:ARG:C[5_454]	1.81	0.39
1:A:186:VAL:CG1	1:B:234:ILE:CA[5_454]	1.81	0.39
1:A:187:PHE:CZ	1:B:195:MET:SD[5_454]	1.81	0.39
1:A:190:PRO:O	1:B:239:ASP:C[5_454]	1.81	0.39
1:A:191:LEU:N	1:B:243:MET:N[5_454]	1.81	0.39
1:A:207:THR:CB	1:A:448:ARG:CB[6_574]	1.81	0.39
1:A:214:TYR:CE1	1:A:221:ASP:CB[6_574]	1.81	0.39
1:A:239:ASP:OD1	1:A:464:ARG:CD[5_454]	1.81	0.39
1:A:241:MET:CE	1:A:298:ARG:N[5_454]	1.81	0.39
1:A:254:ILE:N	1:A:301:THR:CG2[5_454]	1.81	0.39
1:A:259:THR:O	1:A:333:ALA:CA[8_664]	1.81	0.39
1:A:260:PHE:O	1:B:212:TYR:CZ[3_675]	1.81	0.39
1:A:269:PHE:O	1:A:308:PRO:CB[8_664]	1.81	0.39
1:A:279:SER:O	1:A:472:HIS:C[5_454]	1.81	0.39
1:A:284:GLN:CG	1:A:318:ARG:NH2[8_664]	1.81	0.39
1:A:302:ASP:O	1:B:201:TYR:CD2[5_454]	1.81	0.39
1:A:313:GLN:O	1:A:316:TYR:CG[8_664]	1.81	0.39
1:A:334:LEU:CB	1:A:473:HIS:CB[3_675]	1.81	0.39
1:A:334:LEU:CG	1:A:473:HIS:C[3_675]	1.81	0.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:341:PRO:O	1:A:364:THR:CB[4_465]	1.81	0.39
1:A:348:THR:CB	1:A:362:THR:OG1[4_465]	1.81	0.39
1:A:353:SER:OG	1:A:367:GLN:NE2[6_574]	1.81	0.39
1:A:355:PRO:C	1:A:355:PRO:CB[6_574]	1.81	0.39
1:A:357:SER:O	1:A:367:GLN:CG[4_465]	1.81	0.39
1:A:366:LYS:N	1:A:402:TYR:CE1[3_665]	1.81	0.39
1:A:369:LYS:NZ	1:A:438:LEU:CB[3_665]	1.81	0.39
1:A:387:HIS:ND1	1:A:403:LEU:CB[4_465]	1.81	0.39
1:A:397:ASP:C	1:A:438:LEU:O[4_465]	1.81	0.39
1:A:403:LEU:CD1	1:A:426:LEU:CA[3_665]	1.81	0.39
1:A:416:ILE:CG2	1:A:426:LEU:CB[3_665]	1.81	0.39
1:A:430:LEU:CB	1:A:434:LEU:N[4_465]	1.81	0.39
1:A:468:PHE:CE2	1:B:247:PHE:CE2[5_454]	1.81	0.39
1:B:201:TYR:CB	6:A:853:HOH:O[5_454]	1.81	0.39
1:B:238:LEU:CD1	6:A:897:HOH:O[4_365]	1.81	0.39
1:B:448:ARG:O	6:A:911:HOH:O[5_454]	1.81	0.39
1:B:97:GLY:O	6:B:836:HOH:O[3_675]	1.81	0.39
1:B:101:ASP:CB	1:B:400:PHE:CA[3_675]	1.81	0.39
1:B:106:ARG:CB	1:B:405:PHE:CA[3_675]	1.81	0.39
1:B:108:GLY:O	1:B:437:VAL:C[3_675]	1.81	0.39
1:B:140:HIS:O	1:B:436:GLU:N[3_675]	1.81	0.39
1:B:148:ASP:N	1:B:152:ASN:ND2[2_475]	1.81	0.39
1:B:169:MET:CB	1:B:267:PHE:N[4_365]	1.81	0.39
1:B:170:HIS:O	1:B:266:ILE:O[4_365]	1.81	0.39
1:B:289:PHE:CA	1:B:471:GLN:O[2_475]	1.81	0.39
1:B:317:PHE:CE1	1:B:363:ASP:CG[3_675]	1.81	0.39
1:B:335:LEU:O	1:B:370:THR:C[3_675]	1.81	0.39
1:B:337:SER:C	1:B:375:HIS:CA[3_675]	1.81	0.39
1:A:89:THR:N	1:A:164:PRO:CG[8_664]	1.82	0.38
1:A:91:GLN:N	1:A:449:ARG:NH1[4_465]	1.82	0.38
1:A:94:SER:N	1:A:221:ASP:CB[4_465]	1.82	0.38
1:A:100:TYR:CE1	1:A:200:LYS:O[8_664]	1.82	0.38
1:A:100:TYR:C	1:A:201:TYR:CB[8_664]	1.82	0.38
1:A:100:TYR:OH	1:A:204:LYS:CG[8_664]	1.82	0.38
1:A:102:LYS:O	1:A:238:LEU:CG[8_664]	1.82	0.38
1:A:103:LEU:N	1:A:198:ASP:CB[8_664]	1.82	0.38
1:A:105:VAL:N	1:B:248:TYR:CZ[8_664]	1.82	0.38
1:A:105:VAL:CA	1:B:248:TYR:OH[8_664]	1.82	0.38
1:A:110:SER:O	1:A:471:GLN:NE2[3_675]	1.82	0.38
1:A:111:LYS:N	6:A:867:HOH:O[3_675]	1.82	0.38
1:A:111:LYS:CG	1:B:255:GLN:CB[8_664]	1.82	0.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:112:ILE:N	1:A:275:ILE:CG1[8_664]	1.82	0.38
1:A:119:ARG:CA	1:B:264:LYS:C[8_664]	1.82	0.38
1:A:120:ILE:CD1	1:B:220:LYS:N[5_454]	1.82	0.38
1:A:126:GLN:NE2	1:B:191:LEU:O[5_454]	1.82	0.38
1:A:128:PRO:CB	1:B:223:ILE:CB[5_454]	1.82	0.38
1:A:129:HIS:CB	1:B:460:PHE:CE2[5_454]	1.82	0.38
1:A:131:PHE:O	1:B:456:ILE:CG1[5_454]	1.82	0.38
1:A:135:GLY:N	1:B:451:GLU:C[5_454]	1.82	0.38
1:A:137:PHE:C	1:B:453:THR:O[5_454]	1.82	0.38
1:A:137:PHE:CD2	1:A:273:ASP:CB[8_664]	1.82	0.38
1:A:139:SER:OG	1:A:471:GLN:NE2[3_675]	1.82	0.38
1:A:142:ASP:O	1:B:214:TYR:CA[5_454]	1.82	0.38
1:A:145:GLN:O	1:B:273:ASP:CG[8_664]	1.82	0.38
1:A:148:ASP:OD1	6:B:867:HOH:O[8_664]	1.82	0.38
1:A:153:LYS:CA	1:B:280:PHE:CZ[5_454]	1.82	0.38
1:A:155:PRO:N	1:B:198:ASP:OD1[5_454]	1.82	0.38
1:A:156:PHE:CB	1:B:197:ASP:CG[5_454]	1.82	0.38
1:A:179:PHE:CD1	1:A:270:THR:CG2[8_664]	1.82	0.38
1:A:180:THR:N	1:B:462:THR:CA[5_454]	1.82	0.38
1:A:197:ASP:C	1:A:450:LYS:O[6_574]	1.82	0.38
1:A:198:ASP:C	1:A:450:LYS:CG[6_574]	1.82	0.38
1:A:200:LYS:CE	1:A:339:PHE:CE2[8_664]	1.82	0.38
1:A:208:LEU:N	1:A:448:ARG:CB[6_574]	1.82	0.38
1:A:212:TYR:CE1	1:A:457:VAL:N[6_574]	1.82	0.38
1:A:217:GLU:N	1:A:217:GLU:C[6_574]	1.82	0.38
1:A:233:PHE:CB	1:A:243:MET:N[5_454]	1.82	0.38
1:A:233:PHE:CG	1:A:243:MET:CG[5_454]	1.82	0.38
1:A:236:SER:OG	1:A:453:THR:O[6_574]	1.82	0.38
1:A:246:GLY:O	1:A:290:SER:C[5_454]	1.82	0.38
1:A:247:PHE:O	1:A:290:SER:C[5_454]	1.82	0.38
1:A:251:VAL:O	1:A:300:ARG:CB[5_454]	1.82	0.38
1:A:255:GLN:OE1	1:A:300:ARG:NH2[5_454]	1.82	0.38
1:A:259:THR:C	1:A:333:ALA:CB[8_664]	1.82	0.38
1:A:259:THR:CA	1:B:212:TYR:N[3_675]	1.82	0.38
1:A:267:PHE:CB	1:A:309:CYS:CB[8_664]	1.82	0.38
1:A:273:ASP:C	1:B:457:VAL:CB[3_675]	1.82	0.38
1:A:307:ILE:CG2	1:A:475:HIS:CG[3_675]	1.82	0.38
1:A:312:ASP:O	6:A:889:HOH:O[8_664]	1.82	0.38
1:A:324:ALA:C	1:A:326:ARG:CG[8_664]	1.82	0.38
1:A:326:ARG:CD	1:A:329:TYR:O[8_664]	1.82	0.38
1:A:344:GLN:C	1:A:360:PHE:N[4_465]	1.82	0.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:346:ALA:C	1:A:362:THR:CA[4_465]	1.82	0.38
1:A:347:GLN:C	1:A:362:THR:CA[4_465]	1.82	0.38
1:A:354:ASP:C	1:A:354:ASP:OD2[8_664]	1.82	0.38
1:A:379:GLY:CA	1:A:438:LEU:CD2[4_465]	1.82	0.38
1:A:381:ARG:NH1	1:A:405:PHE:O[4_465]	1.82	0.38
1:A:394:CYS:C	6:A:864:HOH:O[4_465]	1.82	0.38
1:A:395:ASP:N	6:A:864:HOH:O[4_465]	1.82	0.38
1:A:408:GLU:OE2	1:B:230:ASN:CG[5_454]	1.82	0.38
1:A:429:GLU:O	1:A:429:GLU:O[3_665]	1.82	0.38
1:A:453:THR:N	6:A:895:HOH:O[2_475]	1.82	0.38
1:A:467:SER:C	1:B:248:TYR:C[5_454]	1.82	0.38
1:B:102:LYS:CA	1:B:401:MET:N[3_675]	1.82	0.38
1:B:103:LEU:CD2	1:B:402:TYR:OH[3_675]	1.82	0.38
1:B:103:LEU:CD1	1:B:402:TYR:CD1[3_675]	1.82	0.38
1:B:137:PHE:CE1	1:B:374:LYS:CA[3_675]	1.82	0.38
1:B:140:HIS:O	1:B:435:ILE:N[3_675]	1.82	0.38
1:B:140:HIS:O	1:B:435:ILE:O[3_675]	1.82	0.38
1:B:167:GLU:OE1	1:B:279:SER:C[4_365]	1.82	0.38
1:B:213:SER:CA	1:B:275:ILE:CG2[4_365]	1.82	0.38
1:B:214:TYR:CG	1:B:274:CYS:O[4_365]	1.82	0.38
1:B:217:GLU:CG	1:B:278:ILE:CG2[4_365]	1.82	0.38
1:B:217:GLU:O	1:B:263:VAL:CG2[4_365]	1.82	0.38
1:B:223:ILE:N	1:B:261:ASN:CB[4_365]	1.82	0.38
1:B:313:GLN:CD	1:B:371:LYS:NZ[3_675]	1.82	0.38
1:B:313:GLN:C	1:B:359:ILE:CA[3_675]	1.82	0.38
1:B:332:PRO:CG	6:B:902:HOH:O[3_675]	1.82	0.38
1:A:90:VAL:O	1:A:211:ALA:O[8_664]	1.83	0.37
1:A:92:THR:CA	1:A:166:SER:CA[8_664]	1.83	0.37
1:A:97:GLY:C	1:A:446:GLN:CA[4_465]	1.83	0.37
1:A:103:LEU:CA	1:A:198:ASP:C[8_664]	1.83	0.37
1:A:107:PHE:CD2	1:A:280:PHE:CD1[8_664]	1.83	0.37
1:A:111:LYS:CB	1:B:255:GLN:N[8_664]	1.83	0.37
1:A:113:ASP:CG	6:B:892:HOH:O[5_454]	1.83	0.37
1:A:116:LEU:C	1:B:221:ASP:OD2[5_454]	1.83	0.37
1:A:116:LEU:C	1:B:221:ASP:CG[5_454]	1.83	0.37
1:A:120:ILE:N	1:B:264:LYS:N[8_664]	1.83	0.37
1:A:126:GLN:OE1	1:B:191:LEU:CG[5_454]	1.83	0.37
1:A:133:ARG:CA	1:A:390:PHE:CZ[3_665]	1.83	0.37
1:A:134:ARG:NE	1:A:386:GLU:O[3_665]	1.83	0.37
1:A:134:ARG:CZ	1:A:390:PHE:C[3_665]	1.83	0.37
1:A:137:PHE:C	1:A:274:CYS:N[8_664]	1.83	0.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:138:PHE:CB	1:A:274:CYS:SG[8_664]	1.83	0.37
1:A:141:ARG:CG	1:A:472:HIS:O[3_675]	1.83	0.37
1:A:141:ARG:N	1:A:473:HIS:ND1[3_675]	1.83	0.37
1:A:143:MET:CB	1:B:278:ILE:CG1[8_664]	1.83	0.37
1:A:156:PHE:C	1:B:238:LEU:CA[5_454]	1.83	0.37
1:A:180:THR:CA	1:B:462:THR:N[5_454]	1.83	0.37
1:A:188:ASN:CA	1:B:235:PHE:CZ[5_454]	1.83	0.37
1:A:197:ASP:O	1:A:450:LYS:CB[6_574]	1.83	0.37
1:A:203:TRP:CB	1:A:338:THR:CA[8_664]	1.83	0.37
1:A:214:TYR:OH	1:A:445:HIS:CE1[6_574]	1.83	0.37
1:A:238:LEU:CD1	1:A:451:GLU:CA[6_574]	1.83	0.37
1:A:258:VAL:O	1:B:210:GLN:CA[3_675]	1.83	0.37
1:A:266:ILE:CG1	1:A:475:HIS:CB[5_454]	1.83	0.37
1:A:270:THR:CB	1:B:461:MET:CB[3_675]	1.83	0.37
1:A:277:LYS:CB	1:A:336:HIS:N[8_664]	1.83	0.37
1:A:277:LYS:N	1:B:454:ASP:OD1[3_675]	1.83	0.37
1:A:317:PHE:CD1	1:A:475:HIS:C[3_675]	1.83	0.37
1:A:330:PRO:N	4:B:812:GOL:C3[5_454]	1.83	0.37
1:A:335:LEU:CG	1:B:216:VAL:CB[5_454]	1.83	0.37
1:A:354:ASP:N	1:A:357:SER:CB[8_664]	1.83	0.37
1:A:366:LYS:CA	1:A:402:TYR:CD2[3_665]	1.83	0.37
1:A:379:GLY:C	1:A:406:PHE:CD1[4_465]	1.83	0.37
1:A:387:HIS:CD2	1:A:413:LEU:CD1[4_465]	1.83	0.37
1:A:395:ASP:CA	1:A:441:LEU:C[4_465]	1.83	0.37
1:A:397:ASP:N	1:A:438:LEU:O[4_465]	1.83	0.37
1:A:408:GLU:CD	1:B:230:ASN:OD1[5_454]	1.83	0.37
1:A:416:ILE:CD1	1:A:425:MET:O[3_665]	1.83	0.37
1:A:428:GLY:N	1:A:430:LEU:CD2[4_465]	1.83	0.37
1:A:429:GLU:O	1:A:432:LYS:CB[4_465]	1.83	0.37
1:A:465:LYS:CE	1:B:252:VAL:CG2[5_454]	1.83	0.37
1:A:469:ASP:N	1:B:251:VAL:CG1[5_454]	1.83	0.37
1:B:194:GLN:OE1	6:A:843:HOH:O[5_454]	1.83	0.37
1:B:98:ILE:CB	1:B:345:GLY:C[3_675]	1.83	0.37
1:B:105:VAL:C	1:B:406:PHE:N[3_675]	1.83	0.37
1:B:106:ARG:N	1:B:405:PHE:N[3_675]	1.83	0.37
1:B:106:ARG:NH2	1:B:340:PHE:C[3_675]	1.83	0.37
1:B:137:PHE:CD1	1:B:374:LYS:CB[3_675]	1.83	0.37
1:B:138:PHE:CD2	1:B:399:SER:CB[3_675]	1.83	0.37
1:B:141:ARG:NH1	1:B:438:LEU:CA[3_675]	1.83	0.37
1:B:162:ARG:NH1	1:B:268:GLY:O[4_365]	1.83	0.37
1:B:257:HIS:CG	1:B:450:LYS:O[3_675]	1.83	0.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:307:ILE:N	1:B:366:LYS:C[3_675]	1.83	0.37
1:B:312:ASP:OD2	1:B:358:SER:N[3_675]	1.83	0.37
1:B:317:PHE:CA	1:B:363:ASP:O[3_675]	1.83	0.37
1:B:335:LEU:O	1:B:369:LYS:O[3_675]	1.83	0.37
1:B:335:LEU:CD1	1:B:369:LYS:CE[3_675]	1.83	0.37
1:B:339:PHE:CG	1:B:344:GLN:CD[3_675]	1.83	0.37
1:B:356:ASN:ND2	6:B:876:HOH:O[4_365]	1.83	0.37
1:B:383:THR:CG2	6:B:864:HOH:O[4_365]	1.83	0.37
1:A:88:TRP:C	1:A:164:PRO:CD[8_664]	1.84	0.36
1:A:88:TRP:CA	1:A:164:PRO:N[8_664]	1.84	0.36
1:A:96:LYS:CB	1:A:445:HIS:CG[4_465]	1.84	0.36
1:A:99:ASP:OD1	1:A:208:LEU:CD2[8_664]	1.84	0.36
1:A:100:TYR:OH	1:A:204:LYS:CA[8_664]	1.84	0.36
1:A:108:GLY:C	1:A:298:ARG:CB[3_675]	1.84	0.36
1:A:119:ARG:CZ	1:B:269:PHE:CD1[8_664]	1.84	0.36
1:A:121:GLU:CA	1:B:222:ILE:CG2[5_454]	1.84	0.36
1:A:122:ARG:NH1	1:B:265:GLY:O[8_664]	1.84	0.36
1:A:135:GLY:CA	1:B:451:GLU:O[5_454]	1.84	0.36
1:A:137:PHE:CB	1:B:453:THR:O[5_454]	1.84	0.36
1:A:143:MET:CG	1:B:216:VAL:N[5_454]	1.84	0.36
1:A:148:ASP:N	1:B:163:GLY:C[5_454]	1.84	0.36
1:A:150:TYR:CZ	1:B:194:GLN:C[5_454]	1.84	0.36
1:A:157:TYR:CZ	1:A:249:LYS:CG[5_454]	1.84	0.36
1:A:179:PHE:CD1	1:B:460:PHE:N[5_454]	1.84	0.36
1:A:179:PHE:CE1	1:A:272:SER:CA[8_664]	1.84	0.36
1:A:181:LYS:N	1:B:462:THR:CB[5_454]	1.84	0.36
1:A:181:LYS:CG	1:B:463:PRO:O[5_454]	1.84	0.36
1:A:182:TRP:CH2	1:B:261:ASN:ND2[8_664]	1.84	0.36
1:A:183:LEU:CG	6:A:861:HOH:O[8_664]	1.84	0.36
1:A:184:GLN:OE1	1:B:240:TYR:CE1[5_454]	1.84	0.36
1:A:185:ASP:C	1:B:233:PHE:CD2[5_454]	1.84	0.36
1:A:206:LEU:C	1:A:448:ARG:N[6_574]	1.84	0.36
1:A:213:SER:OG	1:A:220:LYS:O[6_574]	1.84	0.36
1:A:255:GLN:CB	6:A:890:HOH:O[5_454]	1.84	0.36
1:A:259:THR:N	1:B:208:LEU:C[3_675]	1.84	0.36
1:A:262:GLN:NE2	1:B:208:LEU:CB[3_675]	1.84	0.36
1:A:262:GLN:CG	6:A:820:HOH:O[8_664]	1.84	0.36
1:A:284:GLN:CG	1:A:315:PRO:CB[8_664]	1.84	0.36
1:A:341:PRO:CB	1:A:363:ASP:C[4_465]	1.84	0.36
1:A:341:PRO:CD	1:A:365:ALA:N[4_465]	1.84	0.36
1:A:347:GLN:N	1:A:361:LEU:CA[4_465]	1.84	0.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:368:ILE:CG2	1:A:398:VAL:C[3_665]	1.84	0.36
1:A:368:ILE:CG2	1:A:399:SER:N[3_665]	1.84	0.36
1:A:373:ASN:N	1:A:373:ASN:CB[4_465]	1.84	0.36
1:A:378:SER:CA	1:A:438:LEU:CD1[4_465]	1.84	0.36
1:A:384:ILE:CA	1:A:400:PHE:CZ[4_465]	1.84	0.36
1:A:388:ARG:O	1:A:410:ASP:O[4_465]	1.84	0.36
1:A:426:LEU:C	1:A:436:GLU:CG[2_575]	1.84	0.36
1:A:429:GLU:C	1:A:433:ALA:N[4_465]	1.84	0.36
1:A:435:ILE:O	6:A:892:HOH:O[2_575]	1.84	0.36
1:A:444:GLU:CA	6:A:855:HOH:O[3_665]	1.84	0.36
1:A:453:THR:CG2	1:A:465:LYS:N[2_475]	1.84	0.36
1:A:469:ASP:OD1	1:B:252:VAL:N[5_454]	1.84	0.36
1:B:94:SER:CA	1:B:94:SER:CA[4_365]	1.84	0.36
1:B:99:ASP:O	1:B:401:MET:CB[3_675]	1.84	0.36
1:B:103:LEU:CA	1:B:402:TYR:CA[3_675]	1.84	0.36
1:B:106:ARG:CG	1:B:405:PHE:CB[3_675]	1.84	0.36
1:B:107:PHE:CZ	1:B:171:VAL:CG2[3_675]	1.84	0.36
1:B:110:SER:O	1:B:435:ILE:N[3_675]	1.84	0.36
1:B:162:ARG:CD	1:B:268:GLY:CA[4_365]	1.84	0.36
1:B:166:SER:CB	1:B:203:TRP:CE2[4_365]	1.84	0.36
1:B:213:SER:OG	1:B:275:ILE:CG2[4_365]	1.84	0.36
1:B:236:SER:CB	1:B:271:ASP:OD2[4_365]	1.84	0.36
1:B:313:GLN:N	1:B:359:ILE:N[3_675]	1.84	0.36
1:B:316:TYR:O	1:B:362:THR:CA[3_675]	1.84	0.36
1:B:322:ASP:N	1:B:443:ALA:CA[3_675]	1.84	0.36
1:B:336:HIS:CA	1:B:372:VAL:CB[3_675]	1.84	0.36
1:A:94:SER:OG	1:A:210:GLN:CG[8_664]	1.85	0.35
1:A:99:ASP:OD1	1:A:448:ARG:O[4_465]	1.85	0.35
1:A:102:LYS:O	1:A:238:LEU:CD2[8_664]	1.85	0.35
1:A:109:SER:N	1:A:283:ILE:CD1[8_664]	1.85	0.35
1:A:109:SER:OG	1:A:298:ARG:CD[3_675]	1.85	0.35
1:A:111:LYS:O	1:A:275:ILE:CG1[8_664]	1.85	0.35
1:A:111:LYS:CD	1:B:252:VAL:O[8_664]	1.85	0.35
1:A:114:LYS:N	1:B:449:ARG:CG[5_454]	1.85	0.35
1:A:115:GLU:OE1	1:B:316:TYR:CA[8_664]	1.85	0.35
1:A:116:LEU:C	1:B:221:ASP:CA[5_454]	1.85	0.35
1:A:117:ILE:CB	1:B:220:LYS:C[5_454]	1.85	0.35
1:A:121:GLU:C	1:B:177:PHE:CG[5_454]	1.85	0.35
1:A:122:ARG:NH1	1:B:173:HIS:CB[5_454]	1.85	0.35
1:A:124:THR:OG1	1:B:193:ILE:CG1[5_454]	1.85	0.35
1:A:127:ARG:CB	1:B:227:PHE:N[5_454]	1.85	0.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:134:ARG:NH2	1:A:390:PHE:CA[3_665]	1.85	0.35
1:A:137:PHE:CA	1:B:454:ASP:C[5_454]	1.85	0.35
1:A:137:PHE:CE2	1:A:273:ASP:CG[8_664]	1.85	0.35
1:A:138:PHE:CD2	1:A:202:LEU:CB[8_664]	1.85	0.35
1:A:146:VAL:O	1:B:270:THR:CB[8_664]	1.85	0.35
1:A:156:PHE:CD1	1:B:236:SER:C[5_454]	1.85	0.35
1:A:169:MET:O	1:A:347:GLN:CD[3_665]	1.85	0.35
1:A:179:PHE:O	1:B:461:MET:C[5_454]	1.85	0.35
1:A:180:THR:N	1:B:462:THR:N[5_454]	1.85	0.35
1:A:181:LYS:CB	1:B:463:PRO:O[5_454]	1.85	0.35
1:A:184:GLN:CG	1:B:240:TYR:CD1[5_454]	1.85	0.35
1:A:187:PHE:O	1:B:235:PHE:CE1[5_454]	1.85	0.35
1:A:188:ASN:CB	1:B:293:PHE:CZ[5_454]	1.85	0.35
1:A:189:VAL:O	1:B:240:TYR:CD1[5_454]	1.85	0.35
1:A:189:VAL:N	1:B:240:TYR:CD2[5_454]	1.85	0.35
1:A:190:PRO:CA	1:B:241:MET:CA[5_454]	1.85	0.35
1:A:205:ASP:O	6:A:855:HOH:O[8_664]	1.85	0.35
1:A:207:THR:N	1:A:448:ARG:CB[6_574]	1.85	0.35
1:A:214:TYR:CG	1:A:221:ASP:OD1[6_574]	1.85	0.35
1:A:229:ILE:CD1	1:A:459:GLU:OE2[2_475]	1.85	0.35
1:A:232:THR:CA	1:B:244:SER:N[5_454]	1.85	0.35
1:A:235:PHE:CD1	6:A:834:HOH:O[5_454]	1.85	0.35
1:A:248:TYR:CE1	1:A:470:PHE:CD2[5_454]	1.85	0.35
1:A:248:TYR:CE1	1:A:470:PHE:CE2[5_454]	1.85	0.35
1:A:253:LYS:CA	1:A:301:THR:O[5_454]	1.85	0.35
1:A:254:ILE:CD1	1:A:299:ASP:O[5_454]	1.85	0.35
1:A:258:VAL:O	6:A:837:HOH:O[8_664]	1.85	0.35
1:A:279:SER:C	1:A:472:HIS:CA[5_454]	1.85	0.35
1:A:281:PRO:CA	1:A:314:ASP:CG[8_664]	1.85	0.35
1:A:283:ILE:CB	1:A:298:ARG:CG[5_454]	1.85	0.35
1:A:306:LEU:C	1:B:212:TYR:CZ[5_454]	1.85	0.35
1:A:366:LYS:N	1:A:402:TYR:CE2[3_665]	1.85	0.35
1:A:371:LYS:N	1:A:374:LYS:CB[4_465]	1.85	0.35
1:A:375:HIS:CG	1:A:375:HIS:ND1[3_665]	1.85	0.35
1:A:381:ARG:CD	1:A:404:THR:C[4_465]	1.85	0.35
1:A:387:HIS:CE1	1:A:403:LEU:CA[4_465]	1.85	0.35
1:A:395:ASP:C	1:A:442:ILE:N[4_465]	1.85	0.35
1:A:431:LYS:C	6:A:844:HOH:O[4_465]	1.85	0.35
1:B:159:TYR:OH	6:A:843:HOH:O[5_454]	1.85	0.35
6:A:867:HOH:O	6:A:912:HOH:O[4_365]	1.85	0.35
1:B:208:LEU:CD2	6:A:897:HOH:O[4_365]	1.85	0.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:104:ILE:N	1:B:402:TYR:N[3_675]	1.85	0.35
1:B:106:ARG:O	1:B:406:PHE:CE2[3_675]	1.85	0.35
1:B:111:LYS:C	1:B:430:LEU:O[3_675]	1.85	0.35
1:B:138:PHE:CG	1:B:399:SER:OG[3_675]	1.85	0.35
1:B:140:HIS:CB	1:B:435:ILE:CG2[3_675]	1.85	0.35
1:B:140:HIS:CB	1:B:435:ILE:CD1[3_675]	1.85	0.35
1:B:141:ARG:CD	1:B:439:GLN:CA[3_675]	1.85	0.35
1:B:162:ARG:CZ	1:B:268:GLY:CA[4_365]	1.85	0.35
1:B:169:MET:CG	1:B:267:PHE:CA[4_365]	1.85	0.35
1:B:220:LYS:N	1:B:261:ASN:N[4_365]	1.85	0.35
1:B:221:ASP:C	1:B:262:GLN:CB[4_365]	1.85	0.35
1:B:223:ILE:CG1	1:B:261:ASN:ND2[4_365]	1.85	0.35
1:B:267:PHE:CZ	6:B:824:HOH:O[3_675]	1.85	0.35
1:B:306:LEU:C	1:B:366:LYS:CA[3_675]	1.85	0.35
1:B:309:CYS:N	1:B:371:LYS:N[3_675]	1.85	0.35
1:B:322:ASP:OD1	1:B:444:GLU:C[3_675]	1.85	0.35
1:B:328:GLY:CA	1:B:469:ASP:CG[2_475]	1.85	0.35
1:B:356:ASN:CG	6:B:876:HOH:O[4_365]	1.85	0.35
1:B:378:SER:CA	6:B:872:HOH:O[4_365]	1.85	0.35
1:A:101:ASP:OD1	1:A:201:TYR:CZ[8_664]	1.86	0.34
1:A:113:ASP:C	1:B:449:ARG:CB[5_454]	1.86	0.34
1:A:120:ILE:CB	1:B:261:ASN:C[8_664]	1.86	0.34
1:A:121:GLU:OE1	1:B:225:CYS:SG[5_454]	1.86	0.34
1:A:126:GLN:CD	1:B:191:LEU:CA[5_454]	1.86	0.34
1:A:140:HIS:CE1	1:B:279:SER:CB[8_664]	1.86	0.34
1:A:141:ARG:NH2	1:A:282:ALA:CB[8_664]	1.86	0.34
1:A:143:MET:CG	1:B:215:ALA:C[5_454]	1.86	0.34
1:A:145:GLN:O	1:B:273:ASP:CB[8_664]	1.86	0.34
1:A:150:TYR:CA	1:B:196:THR:CA[5_454]	1.86	0.34
1:A:150:TYR:CA	1:B:196:THR:N[5_454]	1.86	0.34
1:A:153:LYS:CG	1:B:284:GLN:OE1[5_454]	1.86	0.34
1:A:157:TYR:CD2	1:B:238:LEU:O[5_454]	1.86	0.34
1:A:179:PHE:CD2	1:B:457:VAL:O[5_454]	1.86	0.34
1:A:191:LEU:O	1:B:243:MET:CB[5_454]	1.86	0.34
1:A:202:LEU:C	6:B:916:HOH:O[3_675]	1.86	0.34
1:A:206:LEU:CA	1:A:445:HIS:O[6_574]	1.86	0.34
1:A:212:TYR:C	1:A:220:LYS:CA[6_574]	1.86	0.34
1:A:212:TYR:N	1:A:452:VAL:CG2[6_574]	1.86	0.34
1:A:262:GLN:OE1	1:A:332:PRO:CD[8_664]	1.86	0.34
1:A:268:GLY:C	1:A:308:PRO:O[8_664]	1.86	0.34
1:A:274:CYS:CA	1:B:220:LYS:CE[3_675]	1.86	0.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:331:LYS:N	4:B:812:GOL:C2[5_454]	1.86	0.34
1:A:334:LEU:O	1:A:473:HIS:CB[3_675]	1.86	0.34
1:A:366:LYS:C	1:A:402:TYR:OH[3_665]	1.86	0.34
1:A:371:LYS:CA	1:A:374:LYS:CB[4_465]	1.86	0.34
1:A:372:VAL:C	1:A:374:LYS:N[2_575]	1.86	0.34
1:A:381:ARG:CB	1:A:404:THR:OG1[4_465]	1.86	0.34
1:A:388:ARG:O	6:A:856:HOH:O[4_465]	1.86	0.34
1:A:393:ASN:N	1:A:406:PHE:C[4_465]	1.86	0.34
1:A:399:SER:C	1:A:435:ILE:O[4_465]	1.86	0.34
1:A:403:LEU:N	1:A:439:GLN:OE1[4_465]	1.86	0.34
1:A:430:LEU:N	1:A:432:LYS:C[4_465]	1.86	0.34
1:A:455:GLU:CB	1:A:464:ARG:CG[2_475]	1.86	0.34
1:A:466:LEU:O	1:B:249:LYS:N[5_454]	1.86	0.34
1:B:248:TYR:CB	6:A:836:HOH:O[5_454]	1.86	0.34
1:B:103:LEU:CB	1:B:402:TYR:CE1[3_675]	1.86	0.34
1:B:103:LEU:O	1:B:402:TYR:CG[3_675]	1.86	0.34
1:B:105:VAL:CA	1:B:403:LEU:O[3_675]	1.86	0.34
1:B:218:ASN:N	1:B:263:VAL:CG2[4_365]	1.86	0.34
1:B:254:ILE:CA	6:B:893:HOH:O[3_675]	1.86	0.34
1:B:267:PHE:CE1	6:B:824:HOH:O[3_675]	1.86	0.34
1:B:333:ALA:CA	1:B:365:ALA:CB[3_675]	1.86	0.34
1:B:336:HIS:C	1:B:373:ASN:N[3_675]	1.86	0.34
1:B:347:GLN:CB	1:B:347:GLN:CB[3_675]	1.86	0.34
1:B:367:GLN:NE2	5:B:817:TRP:CE2[4_365]	1.86	0.34
1:A:91:GLN:O	1:A:214:TYR:CG[8_664]	1.87	0.33
1:A:94:SER:O	1:A:361:LEU:CB[4_465]	1.87	0.33
1:A:100:TYR:CE1	1:A:204:LYS:CA[8_664]	1.87	0.33
1:A:104:ILE:CA	1:A:298:ARG:CZ[3_675]	1.87	0.33
1:A:106:ARG:CD	1:A:195:MET:O[8_664]	1.87	0.33
1:A:107:PHE:CG	1:A:280:PHE:CZ[8_664]	1.87	0.33
1:A:113:ASP:CA	6:B:825:HOH:O[5_454]	1.87	0.33
1:A:120:ILE:CG1	1:B:218:ASN:C[5_454]	1.87	0.33
1:A:120:ILE:O	1:B:222:ILE:CG2[5_454]	1.87	0.33
1:A:121:GLU:CG	1:B:227:PHE:CE1[5_454]	1.87	0.33
1:A:122:ARG:NH2	1:B:266:ILE:N[8_664]	1.87	0.33
1:A:129:HIS:CD2	1:B:229:ILE:CG1[5_454]	1.87	0.33
1:A:141:ARG:CA	1:B:275:ILE:CB[8_664]	1.87	0.33
1:A:141:ARG:NE	1:A:282:ALA:N[8_664]	1.87	0.33
1:A:143:MET:SD	1:B:215:ALA:O[5_454]	1.87	0.33
1:A:144:ASN:N	1:B:214:TYR:CB[5_454]	1.87	0.33
1:A:146:VAL:N	1:B:273:ASP:CA[8_664]	1.87	0.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:147:LEU:CA	1:B:164:PRO:CD[5_454]	1.87	0.33
1:A:149:ALA:CA	1:B:196:THR:O[5_454]	1.87	0.33
1:A:151:GLU:O	5:B:817:TRP:N[5_454]	1.87	0.33
1:A:154:LYS:N	1:B:199:GLU:CG[5_454]	1.87	0.33
1:A:155:PRO:O	1:B:198:ASP:OD1[5_454]	1.87	0.33
1:A:156:PHE:CE1	1:B:236:SER:OG[5_454]	1.87	0.33
1:A:156:PHE:CG	1:B:237:ASP:N[5_454]	1.87	0.33
1:A:179:PHE:CE2	1:A:270:THR:O[8_664]	1.87	0.33
1:A:187:PHE:C	1:B:235:PHE:CE2[5_454]	1.87	0.33
1:A:212:TYR:CA	1:A:452:VAL:CG1[6_574]	1.87	0.33
1:A:213:SER:CA	1:A:219:ALA:C[6_574]	1.87	0.33
1:A:213:SER:N	1:A:220:LYS:O[6_574]	1.87	0.33
1:A:247:PHE:CB	1:A:293:PHE:N[5_454]	1.87	0.33
1:A:250:ASN:CB	1:A:291:ASN:CG[5_454]	1.87	0.33
1:A:257:HIS:CB	1:A:331:LYS:CG[8_664]	1.87	0.33
1:A:260:PHE:CA	1:B:212:TYR:CB[3_675]	1.87	0.33
1:A:273:ASP:N	1:B:457:VAL:C[3_675]	1.87	0.33
1:A:275:ILE:CD1	1:B:449:ARG:NH2[3_675]	1.87	0.33
1:A:278:ILE:O	1:A:334:LEU:CB[8_664]	1.87	0.33
1:A:278:ILE:O	1:A:473:HIS:N[5_454]	1.87	0.33
1:A:284:GLN:CA	1:A:318:ARG:NH2[8_664]	1.87	0.33
1:A:317:PHE:C	1:A:474:HIS:CD2[3_675]	1.87	0.33
1:A:341:PRO:N	1:A:364:THR:CB[4_465]	1.87	0.33
1:A:371:LYS:C	1:A:375:HIS:N[3_665]	1.87	0.33
1:A:378:SER:CB	1:A:402:TYR:CD2[4_465]	1.87	0.33
1:A:397:ASP:C	1:A:438:LEU:CB[4_465]	1.87	0.33
1:A:425:MET:CG	1:A:432:LYS:CE[2_575]	1.87	0.33
1:A:439:GLN:C	4:A:814:GOL:O1[2_575]	1.87	0.33
1:A:468:PHE:CD2	1:B:247:PHE:CG[5_454]	1.87	0.33
1:B:198:ASP:C	6:A:857:HOH:O[5_454]	1.87	0.33
1:B:100:TYR:O	1:B:399:SER:N[3_675]	1.87	0.33
1:B:105:VAL:CB	1:B:403:LEU:CA[3_675]	1.87	0.33
1:B:141:ARG:CG	1:B:435:ILE:O[3_675]	1.87	0.33
1:B:167:GLU:O	1:B:281:PRO:CD[4_365]	1.87	0.33
1:B:211:ALA:N	1:B:274:CYS:N[4_365]	1.87	0.33
1:B:213:SER:CB	1:B:275:ILE:N[4_365]	1.87	0.33
1:B:215:ALA:C	1:B:260:PHE:CE2[4_365]	1.87	0.33
1:B:281:PRO:O	1:B:362:THR:CG2[3_675]	1.87	0.33
1:B:281:PRO:CB	6:B:897:HOH:O[3_675]	1.87	0.33
1:B:311:ILE:CB	1:B:343:LEU:CG[3_675]	1.87	0.33
1:B:312:ASP:O	1:B:358:SER:CA[3_675]	1.87	0.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:313:GLN:C	1:B:359:ILE:C[3_675]	1.87	0.33
1:B:314:ASP:CA	1:B:359:ILE:CB[3_675]	1.87	0.33
1:B:322:ASP:O	1:B:447:ALA:CA[3_675]	1.87	0.33
1:B:322:ASP:OD2	1:B:445:HIS:CA[3_675]	1.87	0.33
1:B:335:LEU:CD2	1:B:369:LYS:CG[3_675]	1.87	0.33
1:B:367:GLN:CD	5:B:817:TRP:CZ2[4_365]	1.87	0.33
1:A:93:SER:CA	1:A:221:ASP:OD1[4_465]	1.88	0.32
1:A:98:ILE:C	1:A:446:GLN:C[4_465]	1.88	0.32
1:A:99:ASP:N	1:A:449:ARG:C[4_465]	1.88	0.32
1:A:100:TYR:CB	1:A:201:TYR:CA[8_664]	1.88	0.32
1:A:102:LYS:CD	1:A:452:VAL:CB[4_465]	1.88	0.32
1:A:103:LEU:CD1	1:A:199:GLU:N[8_664]	1.88	0.32
1:A:103:LEU:CD1	1:A:450:LYS:CE[4_465]	1.88	0.32
1:A:106:ARG:N	6:A:876:HOH:O[3_675]	1.88	0.32
1:A:114:LYS:CG	1:B:445:HIS:C[5_454]	1.88	0.32
1:A:125:GLY:N	1:B:160:THR:OG1[5_454]	1.88	0.32
1:A:127:ARG:CB	1:B:227:PHE:CB[5_454]	1.88	0.32
1:A:140:HIS:O	1:A:279:SER:CA[8_664]	1.88	0.32
1:A:143:MET:O	1:B:278:ILE:CD1[8_664]	1.88	0.32
1:A:143:MET:O	1:B:278:ILE:CG1[8_664]	1.88	0.32
1:A:150:TYR:CG	1:B:196:THR:N[5_454]	1.88	0.32
1:A:153:LYS:CD	1:B:284:GLN:NE2[5_454]	1.88	0.32
1:A:154:LYS:N	1:B:280:PHE:CZ[5_454]	1.88	0.32
1:A:157:TYR:OH	1:A:249:LYS:CG[5_454]	1.88	0.32
1:A:159:TYR:O	1:A:265:GLY:C[8_664]	1.88	0.32
1:A:159:TYR:CA	1:A:265:GLY:C[8_664]	1.88	0.32
1:A:167:GLU:O	1:A:167:GLU:O[6_574]	1.88	0.32
1:A:187:PHE:CA	1:B:235:PHE:CE1[5_454]	1.88	0.32
1:A:190:PRO:CD	1:B:241:MET:N[5_454]	1.88	0.32
1:A:205:ASP:N	1:A:443:ALA:O[6_574]	1.88	0.32
1:A:208:LEU:CG	1:A:451:GLU:CG[6_574]	1.88	0.32
1:A:229:ILE:CA	6:B:884:HOH:O[5_454]	1.88	0.32
1:A:238:LEU:N	1:A:453:THR:CB[6_574]	1.88	0.32
1:A:250:ASN:N	1:A:290:SER:CA[5_454]	1.88	0.32
1:A:254:ILE:N	1:A:301:THR:CB[5_454]	1.88	0.32
1:A:256:LYS:CG	1:B:210:GLN:NE2[3_675]	1.88	0.32
1:A:259:THR:CA	6:A:837:HOH:O[8_664]	1.88	0.32
1:A:259:THR:C	1:A:333:ALA:N[8_664]	1.88	0.32
1:A:259:THR:C	1:B:212:TYR:N[3_675]	1.88	0.32
1:A:261:ASN:C	1:A:305:CYS:O[8_664]	1.88	0.32
1:A:263:VAL:CG1	1:A:473:HIS:C[5_454]	1.88	0.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:263:VAL:O	1:A:475:HIS:CE1[5_454]	1.88	0.32
1:A:264:LYS:N	1:A:475:HIS:NE2[5_454]	1.88	0.32
1:A:264:LYS:C	1:A:306:LEU:O[8_664]	1.88	0.32
1:A:270:THR:CG2	1:B:458:LYS:O[3_675]	1.88	0.32
1:A:277:LYS:CG	1:B:454:ASP:OD1[3_675]	1.88	0.32
1:A:278:ILE:CD1	1:A:335:LEU:CA[8_664]	1.88	0.32
1:A:284:GLN:O	1:A:318:ARG:NE[8_664]	1.88	0.32
1:A:307:ILE:C	1:B:212:TYR:OH[5_454]	1.88	0.32
1:A:338:THR:CG2	6:B:917:HOH:O[5_454]	1.88	0.32
1:A:341:PRO:CA	1:A:363:ASP:O[4_465]	1.88	0.32
1:A:341:PRO:CD	6:A:854:HOH:O[4_465]	1.88	0.32
1:A:368:ILE:O	1:A:376:ALA:CA[3_665]	1.88	0.32
1:A:369:LYS:O	1:A:372:VAL:CB[3_665]	1.88	0.32
1:A:370:THR:CG2	1:A:375:HIS:C[2_575]	1.88	0.32
1:A:371:LYS:CA	1:A:374:LYS:CA[2_575]	1.88	0.32
1:A:373:ASN:ND2	1:A:431:LYS:NZ[4_465]	1.88	0.32
1:A:382:ASP:N	1:A:401:MET:O[4_465]	1.88	0.32
1:A:395:ASP:CB	6:A:873:HOH:O[4_465]	1.88	0.32
1:A:397:ASP:OD2	1:A:434:LEU:O[4_465]	1.88	0.32
1:A:397:ASP:CG	1:A:438:LEU:CG[4_465]	1.88	0.32
1:A:401:MET:CE	1:A:442:ILE:N[4_465]	1.88	0.32
1:A:412:LYS:O	1:A:424:ALA:O[3_665]	1.88	0.32
1:A:413:LEU:CA	1:A:423:GLY:C[3_665]	1.88	0.32
1:A:428:GLY:C	1:A:430:LEU:O[4_465]	1.88	0.32
1:A:430:LEU:CB	1:A:433:ALA:N[4_465]	1.88	0.32
1:A:430:LEU:CG	1:A:436:GLU:N[4_465]	1.88	0.32
1:A:455:GLU:N	1:A:464:ARG:CA[2_475]	1.88	0.32
1:A:455:GLU:CG	1:A:464:ARG:CG[2_475]	1.88	0.32
1:A:468:PHE:CD1	1:B:248:TYR:N[5_454]	1.88	0.32
1:A:468:PHE:CB	1:B:248:TYR:CA[5_454]	1.88	0.32
1:B:98:ILE:N	6:B:836:HOH:O[3_675]	1.88	0.32
1:B:100:TYR:CA	1:B:398:VAL:O[3_675]	1.88	0.32
1:B:105:VAL:CA	1:B:403:LEU:N[3_675]	1.88	0.32
1:B:105:VAL:CG2	1:B:403:LEU:CB[3_675]	1.88	0.32
1:B:113:ASP:N	1:B:429:GLU:N[3_675]	1.88	0.32
1:B:137:PHE:CD2	1:B:374:LYS:N[3_675]	1.88	0.32
1:B:138:PHE:CG	1:B:431:LYS:CE[3_675]	1.88	0.32
1:B:140:HIS:ND1	1:B:432:LYS:C[3_675]	1.88	0.32
1:B:164:PRO:CG	1:B:270:THR:CA[4_365]	1.88	0.32
1:B:165:SER:O	1:B:277:LYS:CE[4_365]	1.88	0.32
1:B:166:SER:C	1:B:269:PHE:CE1[4_365]	1.88	0.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:171:VAL:N	1:B:315:PRO:CB[4_365]	1.88	0.32
1:B:300:ARG:CZ	1:B:303:ILE:N[2_475]	1.88	0.32
1:B:308:PRO:N	1:B:370:THR:OG1[3_675]	1.88	0.32
1:B:315:PRO:O	1:B:361:LEU:N[3_675]	1.88	0.32
1:B:323:VAL:CA	1:B:447:ALA:CA[3_675]	1.88	0.32
1:B:335:LEU:CA	1:B:369:LYS:CB[3_675]	1.88	0.32
1:B:338:THR:O	1:B:375:HIS:CB[3_675]	1.88	0.32
1:B:338:THR:CA	1:B:376:ALA:CA[3_675]	1.88	0.32
1:B:339:PHE:CG	1:B:344:GLN:NE2[3_675]	1.88	0.32
1:B:339:PHE:CG	1:B:344:GLN:CG[3_675]	1.88	0.32
1:B:377:PHE:CD1	6:B:873:HOH:O[4_365]	1.88	0.32
1:A:93:SER:N	1:A:221:ASP:CG[4_465]	1.89	0.31
1:A:96:LYS:N	1:A:445:HIS:CG[4_465]	1.89	0.31
1:A:97:GLY:O	1:A:206:LEU:CG[8_664]	1.89	0.31
1:A:100:TYR:CE2	1:A:200:LYS:O[8_664]	1.89	0.31
1:A:102:LYS:CA	1:A:238:LEU:CD1[8_664]	1.89	0.31
1:A:102:LYS:CG	1:A:238:LEU:CB[8_664]	1.89	0.31
1:A:110:SER:N	1:A:470:PHE:O[3_675]	1.89	0.31
1:A:112:ILE:N	1:B:255:GLN:O[8_664]	1.89	0.31
1:A:117:ILE:O	1:B:261:ASN:O[8_664]	1.89	0.31
1:A:118:ASN:N	1:B:262:GLN:CB[8_664]	1.89	0.31
1:A:129:HIS:NE2	1:B:229:ILE:CG1[5_454]	1.89	0.31
1:A:133:ARG:CG	6:B:845:HOH:O[5_454]	1.89	0.31
1:A:137:PHE:N	1:B:454:ASP:N[5_454]	1.89	0.31
1:A:142:ASP:CG	1:B:210:GLN:CA[5_454]	1.89	0.31
1:A:147:LEU:CA	1:B:164:PRO:N[5_454]	1.89	0.31
1:A:148:ASP:CA	1:B:163:GLY:C[5_454]	1.89	0.31
1:A:149:ALA:N	1:B:270:THR:OG1[8_664]	1.89	0.31
1:A:149:ALA:O	1:B:196:THR:OG1[5_454]	1.89	0.31
1:A:150:TYR:N	1:B:196:THR:O[5_454]	1.89	0.31
1:A:150:TYR:CE2	1:B:194:GLN:C[5_454]	1.89	0.31
1:A:159:TYR:O	1:A:266:ILE:N[8_664]	1.89	0.31
1:A:160:THR:CB	1:A:268:GLY:CA[8_664]	1.89	0.31
1:A:182:TRP:CE2	1:B:460:PHE:CD1[5_454]	1.89	0.31
1:A:183:LEU:CD1	1:A:264:LYS:NZ[8_664]	1.89	0.31
1:A:189:VAL:CG2	1:B:236:SER:O[5_454]	1.89	0.31
1:A:190:PRO:CB	1:B:241:MET:O[5_454]	1.89	0.31
1:A:192:VAL:N	6:B:858:HOH:O[5_454]	1.89	0.31
1:A:198:ASP:CA	1:A:450:LYS:O[6_574]	1.89	0.31
1:A:199:GLU:OE2	1:A:311:ILE:O[8_664]	1.89	0.31
1:A:208:LEU:C	1:A:448:ARG:O[6_574]	1.89	0.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:209:ASP:CG	1:A:223:ILE:O[6_574]	1.89	0.31
1:A:213:SER:N	1:A:220:LYS:CB[6_574]	1.89	0.31
1:A:213:SER:CB	1:A:221:ASP:N[6_574]	1.89	0.31
1:A:216:VAL:N	1:A:216:VAL:O[6_574]	1.89	0.31
1:A:230:ASN:CB	1:B:245:SER:C[5_454]	1.89	0.31
1:A:239:ASP:CB	1:A:455:GLU:CA[6_574]	1.89	0.31
1:A:241:MET:C	1:A:296:ILE:CG2[5_454]	1.89	0.31
1:A:256:LYS:CA	1:B:210:GLN:CD[3_675]	1.89	0.31
1:A:257:HIS:CA	1:A:331:LYS:CG[8_664]	1.89	0.31
1:A:262:GLN:OE1	1:A:332:PRO:N[8_664]	1.89	0.31
1:A:262:GLN:NE2	1:B:208:LEU:CA[3_675]	1.89	0.31
1:A:263:VAL:CG2	1:A:334:LEU:N[8_664]	1.89	0.31
1:A:264:LYS:N	1:B:212:TYR:CZ[3_675]	1.89	0.31
1:A:266:ILE:C	3:A:810:TYM:CZ2[8_664]	1.89	0.31
1:A:277:LYS:CE	1:A:337:SER:C[8_664]	1.89	0.31
1:A:277:LYS:CD	1:B:454:ASP:CG[3_675]	1.89	0.31
1:A:279:SER:C	1:A:472:HIS:C[5_454]	1.89	0.31
1:A:281:PRO:CB	1:A:474:HIS:ND1[5_454]	1.89	0.31
1:A:282:ALA:N	1:A:472:HIS:CG[5_454]	1.89	0.31
1:A:307:ILE:CB	1:A:475:HIS:CG[3_675]	1.89	0.31
1:A:322:ASP:O	1:A:324:ALA:CA[8_664]	1.89	0.31
1:A:347:GLN:OE1	1:A:360:PHE:CA[4_465]	1.89	0.31
1:A:381:ARG:CG	1:A:404:THR:CA[4_465]	1.89	0.31
1:A:384:ILE:CA	1:A:400:PHE:CD2[4_465]	1.89	0.31
1:A:388:ARG:CD	1:A:414:GLU:CA[4_465]	1.89	0.31
1:A:395:ASP:C	1:A:441:LEU:CG[4_465]	1.89	0.31
1:A:396:VAL:CA	1:A:441:LEU:CD2[4_465]	1.89	0.31
1:A:397:ASP:CG	1:A:438:LEU:CA[4_465]	1.89	0.31
1:A:408:GLU:C	1:A:421:THR:O[3_665]	1.89	0.31
1:A:416:ILE:CG1	1:A:436:GLU:OE2[4_465]	1.89	0.31
1:A:428:GLY:CA	1:A:432:LYS:O[2_575]	1.89	0.31
1:A:428:GLY:C	1:A:430:LEU:N[4_465]	1.89	0.31
1:A:428:GLY:O	1:A:430:LEU:C[4_465]	1.89	0.31
1:A:430:LEU:CB	1:A:432:LYS:O[4_465]	1.89	0.31
1:A:430:LEU:CD2	1:A:432:LYS:O[4_465]	1.89	0.31
1:A:430:LEU:CB	1:A:433:ALA:O[4_465]	1.89	0.31
1:A:455:GLU:N	1:A:463:PRO:C[2_475]	1.89	0.31
1:B:211:ALA:N	6:A:837:HOH:O[5_454]	1.89	0.31
1:B:291:ASN:O	6:A:868:HOH:O[5_454]	1.89	0.31
1:B:97:GLY:C	1:B:347:GLN:NE2[3_675]	1.89	0.31
1:B:98:ILE:CG1	1:B:398:VAL:CG2[3_675]	1.89	0.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:102:LYS:O	1:B:402:TYR:N[3_675]	1.89	0.31
1:B:137:PHE:CZ	1:B:370:THR:O[3_675]	1.89	0.31
1:B:210:GLN:C	1:B:274:CYS:N[4_365]	1.89	0.31
1:B:214:TYR:CE2	1:B:277:LYS:CG[4_365]	1.89	0.31
1:B:218:ASN:O	1:B:264:LYS:N[4_365]	1.89	0.31
1:B:219:ALA:O	1:B:261:ASN:CB[4_365]	1.89	0.31
1:B:300:ARG:NH2	1:B:303:ILE:C[2_475]	1.89	0.31
1:B:307:ILE:CB	1:B:366:LYS:C[3_675]	1.89	0.31
1:B:308:PRO:CD	1:B:366:LYS:CE[3_675]	1.89	0.31
1:B:312:ASP:CB	1:B:357:SER:O[3_675]	1.89	0.31
1:B:319:MET:C	1:B:446:GLN:CB[3_675]	1.89	0.31
1:B:347:GLN:C	1:B:347:GLN:O[4_365]	1.89	0.31
1:A:93:SER:OG	1:A:221:ASP:CG[4_465]	1.90	0.30
1:A:97:GLY:CA	1:A:446:GLN:CG[4_465]	1.90	0.30
1:A:100:TYR:N	1:A:201:TYR:CG[8_664]	1.90	0.30
1:A:115:GLU:N	1:B:319:MET:CG[8_664]	1.90	0.30
1:A:119:ARG:O	1:B:264:LYS:CA[8_664]	1.90	0.30
1:A:119:ARG:C	1:B:264:LYS:N[8_664]	1.90	0.30
1:A:131:PHE:CB	1:B:456:ILE:C[5_454]	1.90	0.30
1:A:134:ARG:NH1	1:A:390:PHE:C[3_665]	1.90	0.30
1:A:137:PHE:CD2	1:A:273:ASP:OD2[8_664]	1.90	0.30
1:A:140:HIS:CB	1:A:473:HIS:ND1[3_675]	1.90	0.30
1:A:141:ARG:C	1:B:275:ILE:CG2[8_664]	1.90	0.30
1:A:146:VAL:CG1	1:B:271:ASP:C[8_664]	1.90	0.30
1:A:147:LEU:O	1:B:164:PRO:CD[5_454]	1.90	0.30
1:A:154:LYS:CB	1:B:199:GLU:C[5_454]	1.90	0.30
1:A:157:TYR:O	1:B:238:LEU:C[5_454]	1.90	0.30
1:A:167:GLU:OE1	1:A:169:MET:CB[6_574]	1.90	0.30
1:A:179:PHE:CG	1:B:458:LYS:O[5_454]	1.90	0.30
1:A:179:PHE:CZ	1:A:272:SER:N[8_664]	1.90	0.30
1:A:181:LYS:CD	1:B:464:ARG:CB[5_454]	1.90	0.30
1:A:186:VAL:O	1:B:193:ILE:C[5_454]	1.90	0.30
1:A:190:PRO:O	1:B:239:ASP:O[5_454]	1.90	0.30
1:A:198:ASP:O	1:A:450:LYS:CD[6_574]	1.90	0.30
1:A:199:GLU:C	1:A:450:LYS:NZ[6_574]	1.90	0.30
1:A:203:TRP:CA	1:A:338:THR:CB[8_664]	1.90	0.30
1:A:212:TYR:OH	1:A:457:VAL:CB[6_574]	1.90	0.30
1:A:214:TYR:CG	1:A:449:ARG:CD[6_574]	1.90	0.30
1:A:217:GLU:CA	1:A:217:GLU:CA[6_574]	1.90	0.30
1:A:232:THR:CB	1:B:243:MET:C[5_454]	1.90	0.30
1:A:235:PHE:O	1:A:454:ASP:OD1[6_574]	1.90	0.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:240:TYR:CE1	1:A:240:TYR:CZ[5_454]	1.90	0.30
1:A:241:MET:CB	1:A:296:ILE:CB[5_454]	1.90	0.30
1:A:247:PHE:CA	1:A:293:PHE:CA[5_454]	1.90	0.30
1:A:247:PHE:CD2	1:A:294:PRO:C[5_454]	1.90	0.30
1:A:250:ASN:N	1:A:290:SER:C[5_454]	1.90	0.30
1:A:252:VAL:C	1:A:302:ASP:CA[5_454]	1.90	0.30
1:A:261:ASN:C	1:A:305:CYS:CA[8_664]	1.90	0.30
1:A:262:GLN:CD	1:A:332:PRO:N[8_664]	1.90	0.30
1:A:263:VAL:O	1:A:475:HIS:ND1[5_454]	1.90	0.30
1:A:267:PHE:CZ	1:A:317:PHE:CE2[8_664]	1.90	0.30
1:A:272:SER:CB	1:B:460:PHE:CB[3_675]	1.90	0.30
1:A:277:LYS:CA	1:A:336:HIS:CB[8_664]	1.90	0.30
1:A:278:ILE:N	1:A:473:HIS:CE1[5_454]	1.90	0.30
1:A:313:GLN:O	1:A:316:TYR:CD1[8_664]	1.90	0.30
1:A:365:ALA:O	1:A:402:TYR:CZ[3_665]	1.90	0.30
1:A:366:LYS:CA	1:A:402:TYR:CZ[3_665]	1.90	0.30
1:A:370:THR:O	1:A:376:ALA:N[2_575]	1.90	0.30
1:A:373:ASN:CG	1:A:431:LYS:NZ[4_465]	1.90	0.30
1:A:378:SER:OG	1:A:402:TYR:CB[4_465]	1.90	0.30
1:A:383:THR:N	6:A:879:HOH:O[4_465]	1.90	0.30
1:A:388:ARG:CA	1:A:413:LEU:CB[4_465]	1.90	0.30
1:A:388:ARG:NH2	1:A:417:ARG:CA[4_465]	1.90	0.30
1:A:402:TYR:N	1:A:439:GLN:NE2[4_465]	1.90	0.30
1:A:403:LEU:CD1	1:A:426:LEU:C[3_665]	1.90	0.30
1:A:412:LYS:CB	1:A:424:ALA:CA[3_665]	1.90	0.30
1:A:416:ILE:CG2	1:A:436:GLU:OE1[4_465]	1.90	0.30
1:A:426:LEU:CD1	1:A:436:GLU:CB[2_575]	1.90	0.30
1:A:428:GLY:C	1:A:432:LYS:CB[3_665]	1.90	0.30
1:A:429:GLU:N	1:A:429:GLU:O[4_465]	1.90	0.30
6:A:907:HOH:O	6:A:908:HOH:O[8_664]	1.90	0.30
1:B:104:ILE:CA	1:B:402:TYR:CB[3_675]	1.90	0.30
1:B:106:ARG:NH2	1:B:340:PHE:CB[3_675]	1.90	0.30
1:B:106:ARG:O	1:B:406:PHE:CZ[3_675]	1.90	0.30
1:B:111:LYS:N	1:B:433:ALA:CA[3_675]	1.90	0.30
1:B:139:SER:C	1:B:435:ILE:CD1[3_675]	1.90	0.30
1:B:140:HIS:O	1:B:435:ILE:CB[3_675]	1.90	0.30
1:B:162:ARG:NE	1:B:268:GLY:CA[4_365]	1.90	0.30
1:B:164:PRO:CG	1:B:270:THR:N[4_365]	1.90	0.30
1:B:167:GLU:N	1:B:277:LYS:C[4_365]	1.90	0.30
1:B:197:ASP:CA	1:B:272:SER:OG[4_365]	1.90	0.30
1:B:258:VAL:CG2	1:B:449:ARG:CG[3_675]	1.90	0.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:318:ARG:CG	1:B:442:ILE:CG1[3_675]	1.90	0.30
1:B:323:VAL:N	1:B:446:GLN:C[3_675]	1.90	0.30
1:B:326:ARG:CD	1:B:447:ALA:C[3_675]	1.90	0.30
1:B:334:LEU:O	1:B:369:LYS:CB[3_675]	1.90	0.30
1:B:336:HIS:C	1:B:371:LYS:C[3_675]	1.90	0.30
1:B:356:ASN:OD1	6:B:896:HOH:O[4_365]	1.90	0.30
1:A:92:THR:O	1:A:166:SER:O[8_664]	1.91	0.29
1:A:94:SER:CA	1:A:445:HIS:CE1[4_465]	1.91	0.29
1:A:96:LYS:CB	1:A:210:GLN:NE2[8_664]	1.91	0.29
1:A:99:ASP:C	1:A:450:LYS:CB[4_465]	1.91	0.29
1:A:105:VAL:N	1:A:465:LYS:CE[3_675]	1.91	0.29
1:A:107:PHE:CZ	1:A:196:THR:CG2[8_664]	1.91	0.29
1:A:111:LYS:CD	1:B:254:ILE:C[8_664]	1.91	0.29
1:A:111:LYS:CE	1:B:256:LYS:N[8_664]	1.91	0.29
1:A:112:ILE:CD1	1:B:220:LYS:CD[5_454]	1.91	0.29
1:A:115:GLU:CA	1:B:319:MET:CE[8_664]	1.91	0.29
1:A:117:ILE:CG1	1:B:220:LYS:C[5_454]	1.91	0.29
1:A:117:ILE:CD1	1:B:452:VAL:CG1[5_454]	1.91	0.29
1:A:119:ARG:NH1	1:B:166:SER:O[5_454]	1.91	0.29
1:A:119:ARG:CB	1:B:264:LYS:N[8_664]	1.91	0.29
1:A:119:ARG:CD	1:B:169:MET:CG[5_454]	1.91	0.29
1:A:120:ILE:CG1	1:B:261:ASN:N[8_664]	1.91	0.29
1:A:122:ARG:CZ	1:B:265:GLY:C[8_664]	1.91	0.29
1:A:135:GLY:C	1:B:453:THR:CA[5_454]	1.91	0.29
1:A:139:SER:CA	1:A:276:GLY:N[8_664]	1.91	0.29
1:A:141:ARG:CB	1:A:472:HIS:C[3_675]	1.91	0.29
1:A:143:MET:CE	1:B:260:PHE:CG[8_664]	1.91	0.29
1:A:143:MET:CA	1:B:214:TYR:N[5_454]	1.91	0.29
1:A:143:MET:CA	1:B:278:ILE:CB[8_664]	1.91	0.29
1:A:145:GLN:N	1:B:214:TYR:CD2[5_454]	1.91	0.29
1:A:148:ASP:CB	1:B:273:ASP:OD1[8_664]	1.91	0.29
1:A:159:TYR:O	1:A:475:HIS:NE2[3_675]	1.91	0.29
1:A:182:TRP:O	1:B:233:PHE:CD1[5_454]	1.91	0.29
1:A:183:LEU:CD2	1:B:461:MET:CB[5_454]	1.91	0.29
1:A:185:ASP:O	1:B:192:VAL:CG2[5_454]	1.91	0.29
1:A:191:LEU:CG	1:B:243:MET:CB[5_454]	1.91	0.29
1:A:207:THR:O	1:A:448:ARG:CA[6_574]	1.91	0.29
1:A:238:LEU:CB	1:A:453:THR:N[6_574]	1.91	0.29
1:A:238:LEU:O	1:A:453:THR:OG1[6_574]	1.91	0.29
1:A:244:SER:CA	1:A:293:PHE:CD1[5_454]	1.91	0.29
1:A:248:TYR:O	1:A:290:SER:CB[5_454]	1.91	0.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:253:LYS:CE	1:A:329:TYR:CD1[5_454]	1.91	0.29
1:A:258:VAL:CA	1:B:209:ASP:C[3_675]	1.91	0.29
1:A:260:PHE:CD2	1:A:306:LEU:CG[8_664]	1.91	0.29
1:A:263:VAL:CG2	1:B:212:TYR:CD2[3_675]	1.91	0.29
1:A:267:PHE:CA	3:A:810:TYM:CH2[8_664]	1.91	0.29
1:A:277:LYS:CA	1:B:454:ASP:OD1[3_675]	1.91	0.29
1:A:279:SER:CB	1:A:471:GLN:CA[5_454]	1.91	0.29
1:A:312:ASP:N	6:A:889:HOH:O[8_664]	1.91	0.29
1:A:312:ASP:CB	6:A:889:HOH:O[8_664]	1.91	0.29
1:A:317:PHE:C	1:A:319:MET:SD[8_664]	1.91	0.29
1:A:318:ARG:N	1:A:474:HIS:NE2[3_675]	1.91	0.29
1:A:336:HIS:O	1:B:454:ASP:OD1[5_454]	1.91	0.29
1:A:346:ALA:O	1:A:362:THR:CA[4_465]	1.91	0.29
1:A:347:GLN:CD	1:A:360:PHE:C[4_465]	1.91	0.29
1:A:348:THR:CG2	1:A:352:ALA:C[8_664]	1.91	0.29
1:A:368:ILE:N	1:A:398:VAL:CG1[3_665]	1.91	0.29
1:A:372:VAL:CG2	1:A:431:LYS:CE[3_665]	1.91	0.29
1:A:372:VAL:CG2	1:A:376:ALA:O[3_665]	1.91	0.29
1:A:381:ARG:N	1:A:405:PHE:N[4_465]	1.91	0.29
1:A:388:ARG:CZ	1:A:413:LEU:O[4_465]	1.91	0.29
1:A:400:PHE:CE2	1:A:440:PRO:CB[4_465]	1.91	0.29
1:A:401:MET:CG	1:A:439:GLN:C[4_465]	1.91	0.29
1:A:403:LEU:N	4:A:814:GOL:O2[3_665]	1.91	0.29
1:A:412:LYS:CG	1:A:424:ALA:CB[3_665]	1.91	0.29
1:A:426:LEU:O	1:A:433:ALA:CB[4_465]	1.91	0.29
1:A:429:GLU:CA	1:A:432:LYS:CB[2_575]	1.91	0.29
1:A:455:GLU:CA	1:A:462:THR:O[2_475]	1.91	0.29
1:A:468:PHE:N	1:B:248:TYR:O[5_454]	1.91	0.29
1:B:100:TYR:CE2	1:B:377:PHE:CA[3_675]	1.91	0.29
1:B:103:LEU:N	1:B:401:MET:CA[3_675]	1.91	0.29
1:B:106:ARG:CA	1:B:405:PHE:C[3_675]	1.91	0.29
1:B:106:ARG:CD	1:B:405:PHE:CE2[3_675]	1.91	0.29
1:B:111:LYS:CG	1:B:430:LEU:O[3_675]	1.91	0.29
1:B:111:LYS:CB	1:B:430:LEU:CA[3_675]	1.91	0.29
1:B:113:ASP:CA	1:B:429:GLU:N[3_675]	1.91	0.29
1:B:210:GLN:C	1:B:274:CYS:C[4_365]	1.91	0.29
1:B:214:TYR:CZ	1:B:274:CYS:SG[4_365]	1.91	0.29
1:B:219:ALA:C	1:B:260:PHE:CA[4_365]	1.91	0.29
1:B:220:LYS:CG	1:B:259:THR:CA[4_365]	1.91	0.29
1:B:224:ALA:N	1:B:262:GLN:CG[4_365]	1.91	0.29
1:B:257:HIS:O	1:B:449:ARG:CA[3_675]	1.91	0.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:257:HIS:CB	1:B:450:LYS:O[3_675]	1.91	0.29
1:B:326:ARG:NH2	1:B:448:ARG:CZ[3_675]	1.91	0.29
1:B:339:PHE:CE2	1:B:343:LEU:CA[3_675]	1.91	0.29
1:A:88:TRP:O	1:A:162:ARG:C[8_664]	1.92	0.28
1:A:96:LYS:N	1:A:210:GLN:NE2[8_664]	1.92	0.28
1:A:102:LYS:CG	1:A:452:VAL:C[4_465]	1.92	0.28
1:A:102:LYS:C	1:A:238:LEU:CG[8_664]	1.92	0.28
1:A:105:VAL:N	1:B:248:TYR:CE2[8_664]	1.92	0.28
1:A:106:ARG:CA	1:A:295:GLN:O[3_675]	1.92	0.28
1:A:109:SER:CB	1:A:298:ARG:CD[3_675]	1.92	0.28
1:A:114:LYS:O	1:B:445:HIS:NE2[5_454]	1.92	0.28
1:A:115:GLU:OE1	1:B:316:TYR:O[8_664]	1.92	0.28
1:A:115:GLU:CD	1:B:362:THR:N[5_454]	1.92	0.28
1:A:116:LEU:C	1:B:263:VAL:CA[8_664]	1.92	0.28
1:A:119:ARG:CD	1:B:169:MET:SD[5_454]	1.92	0.28
1:A:120:ILE:CG1	1:B:218:ASN:O[5_454]	1.92	0.28
1:A:127:ARG:CG	1:B:227:PHE:C[5_454]	1.92	0.28
1:A:127:ARG:C	1:B:227:PHE:CA[5_454]	1.92	0.28
1:A:129:HIS:CB	1:B:460:PHE:CD1[5_454]	1.92	0.28
1:A:130:HIS:NE2	1:A:381:ARG:CZ[3_665]	1.92	0.28
1:A:132:LEU:CD2	1:A:273:ASP:O[8_664]	1.92	0.28
1:A:136:ILE:N	1:B:453:THR:CG2[5_454]	1.92	0.28
1:A:137:PHE:O	1:B:453:THR:C[5_454]	1.92	0.28
1:A:137:PHE:CD1	1:B:455:GLU:C[5_454]	1.92	0.28
1:A:138:PHE:CE2	1:A:202:LEU:CA[8_664]	1.92	0.28
1:A:142:ASP:OD1	1:A:255:GLN:O[8_664]	1.92	0.28
1:A:143:MET:CB	1:B:278:ILE:CB[8_664]	1.92	0.28
1:A:145:GLN:CA	1:B:273:ASP:C[8_664]	1.92	0.28
1:A:146:VAL:O	1:B:270:THR:O[8_664]	1.92	0.28
1:A:149:ALA:C	1:B:196:THR:OG1[5_454]	1.92	0.28
1:A:154:LYS:CA	1:B:199:GLU:CA[5_454]	1.92	0.28
1:A:159:TYR:CE2	1:A:266:ILE:CG1[8_664]	1.92	0.28
1:A:183:LEU:N	1:B:460:PHE:O[5_454]	1.92	0.28
1:A:186:VAL:CA	1:B:233:PHE:C[5_454]	1.92	0.28
1:A:188:ASN:OD1	1:B:287:PRO:CA[5_454]	1.92	0.28
1:A:200:LYS:N	1:A:450:LYS:CD[6_574]	1.92	0.28
1:A:203:TRP:C	1:A:338:THR:CA[8_664]	1.92	0.28
1:A:207:THR:O	1:A:448:ARG:CB[6_574]	1.92	0.28
1:A:210:GLN:OE1	1:A:445:HIS:CB[6_574]	1.92	0.28
1:A:211:ALA:C	1:A:449:ARG:O[6_574]	1.92	0.28
1:A:213:SER:OG	1:A:222:ILE:N[6_574]	1.92	0.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:233:PHE:CA	1:A:243:MET:CA[5_454]	1.92	0.28
1:A:236:SER:O	1:A:455:GLU:OE2[6_574]	1.92	0.28
1:A:252:VAL:CA	1:A:302:ASP:OD2[5_454]	1.92	0.28
1:A:252:VAL:CB	1:A:303:ILE:CA[5_454]	1.92	0.28
1:A:260:PHE:O	1:B:212:TYR:CD2[3_675]	1.92	0.28
1:A:263:VAL:CG1	1:A:334:LEU:CG[8_664]	1.92	0.28
1:A:264:LYS:CB	1:B:239:ASP:CG[3_675]	1.92	0.28
1:A:282:ALA:CB	1:A:472:HIS:CB[5_454]	1.92	0.28
1:A:304:GLN:CB	1:B:238:LEU:CD1[5_454]	1.92	0.28
1:A:307:ILE:CG1	1:A:475:HIS:CB[3_675]	1.92	0.28
1:A:321:ARG:O	1:A:323:VAL:CG2[8_664]	1.92	0.28
1:A:351:SER:CA	1:A:351:SER:CB[8_664]	1.92	0.28
1:A:370:THR:OG1	1:A:377:PHE:CA[2_575]	1.92	0.28
1:A:382:ASP:N	1:A:405:PHE:CE1[4_465]	1.92	0.28
1:A:394:CYS:CB	6:A:864:HOH:O[4_465]	1.92	0.28
1:A:399:SER:C	1:A:435:ILE:CG2[4_465]	1.92	0.28
1:A:420:TYR:CD2	1:A:437:VAL:CG1[4_465]	1.92	0.28
1:A:456:ILE:CA	6:A:901:HOH:O[2_475]	1.92	0.28
1:A:463:PRO:CD	1:A:463:PRO:CD[5_454]	1.92	0.28
1:A:468:PHE:CA	1:B:248:TYR:C[5_454]	1.92	0.28
1:A:468:PHE:CE1	1:B:247:PHE:CA[5_454]	1.92	0.28
1:A:469:ASP:CA	1:B:251:VAL:CG1[5_454]	1.92	0.28
1:B:161:GLY:N	6:A:822:HOH:O[5_454]	1.92	0.28
1:B:160:THR:O	6:A:822:HOH:O[5_454]	1.92	0.28
1:B:279:SER:OG	6:A:847:HOH:O[5_454]	1.92	0.28
1:B:275:ILE:O	6:A:874:HOH:O[8_664]	1.92	0.28
1:B:449:ARG:C	6:A:911:HOH:O[5_454]	1.92	0.28
1:B:99:ASP:N	1:B:401:MET:SD[3_675]	1.92	0.28
1:B:105:VAL:N	1:B:402:TYR:O[3_675]	1.92	0.28
1:B:108:GLY:CA	1:B:437:VAL:CG1[3_675]	1.92	0.28
1:B:111:LYS:C	1:B:432:LYS:N[3_675]	1.92	0.28
1:B:114:LYS:CA	1:B:429:GLU:CD[3_675]	1.92	0.28
1:B:164:PRO:CB	1:B:270:THR:O[4_365]	1.92	0.28
1:B:218:ASN:ND2	1:B:269:PHE:CG[4_365]	1.92	0.28
1:B:220:LYS:CB	1:B:259:THR:N[4_365]	1.92	0.28
1:B:220:LYS:CD	1:B:258:VAL:O[4_365]	1.92	0.28
1:B:288:SER:OG	1:B:364:THR:CG2[3_675]	1.92	0.28
1:B:311:ILE:CA	1:B:343:LEU:CD1[3_675]	1.92	0.28
1:B:317:PHE:CE2	1:B:364:THR:N[3_675]	1.92	0.28
1:B:335:LEU:C	1:B:370:THR:N[3_675]	1.92	0.28
1:B:337:SER:OG	1:B:375:HIS:CD2[3_675]	1.92	0.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:338:THR:O	1:B:375:HIS:C[3_675]	1.92	0.28
1:A:92:THR:N	1:A:449:ARG:CD[4_465]	1.93	0.27
1:A:93:SER:N	1:A:221:ASP:OD2[4_465]	1.93	0.27
1:A:96:LYS:CB	1:A:210:GLN:CD[8_664]	1.93	0.27
1:A:98:ILE:CD1	1:A:200:LYS:CB[8_664]	1.93	0.27
1:A:100:TYR:CD1	1:A:201:TYR:C[8_664]	1.93	0.27
1:A:101:ASP:C	1:A:465:LYS:NZ[3_675]	1.93	0.27
1:A:104:ILE:O	6:A:876:HOH:O[3_675]	1.93	0.27
1:A:105:VAL:C	1:B:248:TYR:CE2[8_664]	1.93	0.27
1:A:112:ILE:CB	1:B:220:LYS:CE[5_454]	1.93	0.27
1:A:113:ASP:OD1	1:B:319:MET:CE[8_664]	1.93	0.27
1:A:113:ASP:CA	1:B:449:ARG:CD[5_454]	1.93	0.27
1:A:116:LEU:CB	1:B:217:GLU:O[5_454]	1.93	0.27
1:A:117:ILE:N	1:B:263:VAL:N[8_664]	1.93	0.27
1:A:120:ILE:CB	1:B:222:ILE:CB[5_454]	1.93	0.27
1:A:130:HIS:CA	1:A:390:PHE:CE2[3_665]	1.93	0.27
1:A:131:PHE:CA	1:B:456:ILE:CA[5_454]	1.93	0.27
1:A:134:ARG:CG	1:A:390:PHE:CD1[3_665]	1.93	0.27
1:A:137:PHE:CG	1:A:273:ASP:CB[8_664]	1.93	0.27
1:A:141:ARG:O	1:B:275:ILE:CA[8_664]	1.93	0.27
1:A:141:ARG:CZ	1:A:282:ALA:CB[8_664]	1.93	0.27
1:A:148:ASP:CB	1:B:164:PRO:C[5_454]	1.93	0.27
1:A:177:PHE:C	1:B:462:THR:CG2[5_454]	1.93	0.27
1:A:181:LYS:CD	1:B:464:ARG:CG[5_454]	1.93	0.27
1:A:184:GLN:NE2	1:B:463:PRO:CB[5_454]	1.93	0.27
1:A:186:VAL:N	1:B:233:PHE:C[5_454]	1.93	0.27
1:A:188:ASN:CG	1:B:293:PHE:CZ[5_454]	1.93	0.27
1:A:188:ASN:N	1:B:235:PHE:CG[5_454]	1.93	0.27
1:A:190:PRO:CD	1:B:241:MET:CA[5_454]	1.93	0.27
1:A:191:LEU:CB	1:B:243:MET:SD[5_454]	1.93	0.27
1:A:192:VAL:CG1	1:A:245:SER:N[5_454]	1.93	0.27
1:A:203:TRP:CE3	1:A:311:ILE:CB[8_664]	1.93	0.27
1:A:207:THR:CA	1:A:448:ARG:CA[6_574]	1.93	0.27
1:A:228:ASP:CB	1:B:295:GLN:CD[5_454]	1.93	0.27
1:A:229:ILE:CA	1:B:245:SER:OG[5_454]	1.93	0.27
1:A:241:MET:CA	1:A:296:ILE:N[5_454]	1.93	0.27
1:A:247:PHE:N	1:A:293:PHE:CD2[5_454]	1.93	0.27
1:A:248:TYR:CG	1:A:297:PHE:CG[5_454]	1.93	0.27
1:A:248:TYR:CA	1:A:297:PHE:CB[5_454]	1.93	0.27
1:A:258:VAL:CG1	1:B:209:ASP:CG[3_675]	1.93	0.27
1:A:261:ASN:CG	1:B:238:LEU:CB[3_675]	1.93	0.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:266:ILE:C	3:A:810:TYM:CH2[8_664]	1.93	0.27
1:A:278:ILE:CD1	1:B:216:VAL:CB[3_675]	1.93	0.27
1:A:307:ILE:CG1	1:A:475:HIS:N[3_675]	1.93	0.27
1:A:332:PRO:N	1:B:209:ASP:CB[5_454]	1.93	0.27
1:A:342:ALA:C	1:A:367:GLN:CB[4_465]	1.93	0.27
1:A:342:ALA:CB	1:A:363:ASP:OD1[4_465]	1.93	0.27
1:A:348:THR:OG1	1:A:362:THR:OG1[4_465]	1.93	0.27
1:A:381:ARG:CD	1:A:405:PHE:C[4_465]	1.93	0.27
1:A:383:THR:O	1:A:404:THR:CB[4_465]	1.93	0.27
1:A:384:ILE:CA	1:A:440:PRO:CB[2_575]	1.93	0.27
1:A:387:HIS:C	1:A:413:LEU:CD1[4_465]	1.93	0.27
1:A:387:HIS:CA	1:A:413:LEU:CD2[4_465]	1.93	0.27
1:A:392:GLY:O	1:A:406:PHE:C[4_465]	1.93	0.27
1:A:394:CYS:N	6:A:864:HOH:O[4_465]	1.93	0.27
1:A:412:LYS:NZ	1:A:419:ASP:CG[3_665]	1.93	0.27
1:A:430:LEU:C	1:A:433:ALA:N[4_465]	1.93	0.27
1:A:431:LYS:CE	6:A:891:HOH:O[3_665]	1.93	0.27
1:A:455:GLU:CG	1:A:464:ARG:O[2_475]	1.93	0.27
1:A:455:GLU:CA	1:A:464:ARG:CB[2_475]	1.93	0.27
1:A:469:ASP:CB	1:B:251:VAL:C[5_454]	1.93	0.27
1:B:103:LEU:CG	1:B:402:TYR:CG[3_675]	1.93	0.27
1:B:112:ILE:N	1:B:431:LYS:CA[3_675]	1.93	0.27
1:B:112:ILE:O	1:B:428:GLY:O[3_675]	1.93	0.27
1:B:137:PHE:CB	1:B:373:ASN:O[3_675]	1.93	0.27
1:B:140:HIS:CE1	1:B:432:LYS:C[3_675]	1.93	0.27
1:B:162:ARG:CZ	1:B:268:GLY:O[4_365]	1.93	0.27
1:B:166:SER:CB	1:B:203:TRP:CH2[4_365]	1.93	0.27
1:B:168:ALA:CB	1:B:316:TYR:OH[4_365]	1.93	0.27
1:B:311:ILE:O	1:B:359:ILE:CD1[3_675]	1.93	0.27
1:B:313:GLN:OE1	1:B:360:PHE:CE1[3_675]	1.93	0.27
1:B:316:TYR:CA	1:B:360:PHE:O[3_675]	1.93	0.27
1:B:317:PHE:CE2	1:B:363:ASP:C[3_675]	1.93	0.27
1:B:318:ARG:C	1:B:442:ILE:CG2[3_675]	1.93	0.27
1:B:322:ASP:CB	1:B:446:GLN:N[3_675]	1.93	0.27
1:B:329:TYR:N	1:B:469:ASP:C[2_475]	1.93	0.27
1:B:333:ALA:O	1:B:365:ALA:CA[3_675]	1.93	0.27
1:B:338:THR:CB	1:B:375:HIS:O[3_675]	1.93	0.27
1:B:347:GLN:O	1:B:347:GLN:CB[3_675]	1.93	0.27
1:B:451:GLU:CD	6:B:886:HOH:O[4_365]	1.93	0.27
1:A:88:TRP:O	1:A:163:GLY:CA[8_664]	1.94	0.26
1:A:96:LYS:CA	1:A:445:HIS:CG[4_465]	1.94	0.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:98:ILE:CB	1:A:200:LYS:CB[8_664]	1.94	0.26
1:A:102:LYS:NZ	1:A:452:VAL:CG2[4_465]	1.94	0.26
1:A:105:VAL:CG2	1:B:248:TYR:CE2[8_664]	1.94	0.26
1:A:110:SER:N	1:A:279:SER:OG[8_664]	1.94	0.26
1:A:115:GLU:OE2	1:B:362:THR:CG2[5_454]	1.94	0.26
1:A:117:ILE:N	1:B:221:ASP:CB[5_454]	1.94	0.26
1:A:117:ILE:N	1:B:262:GLN:CB[8_664]	1.94	0.26
1:A:120:ILE:N	1:B:265:GLY:N[8_664]	1.94	0.26
1:A:122:ARG:CZ	1:B:266:ILE:CA[8_664]	1.94	0.26
1:A:123:ALA:O	1:B:161:GLY:N[5_454]	1.94	0.26
1:A:131:PHE:CB	1:B:456:ILE:CB[5_454]	1.94	0.26
1:A:144:ASN:O	1:B:273:ASP:CG[8_664]	1.94	0.26
1:A:146:VAL:C	1:B:164:PRO:CB[5_454]	1.94	0.26
1:A:146:VAL:CG1	1:B:271:ASP:N[8_664]	1.94	0.26
1:A:148:ASP:CG	1:B:165:SER:C[5_454]	1.94	0.26
1:A:150:TYR:CZ	1:B:194:GLN:CG[5_454]	1.94	0.26
1:A:167:GLU:CA	1:A:167:GLU:C[6_574]	1.94	0.26
1:A:179:PHE:CE1	1:A:272:SER:N[8_664]	1.94	0.26
1:A:179:PHE:CG	1:B:458:LYS:N[5_454]	1.94	0.26
1:A:183:LEU:CD1	1:B:461:MET:CG[5_454]	1.94	0.26
1:A:183:LEU:CD2	1:A:271:ASP:CA[8_664]	1.94	0.26
1:A:203:TRP:CZ2	1:A:311:ILE:N[8_664]	1.94	0.26
1:A:206:LEU:CG	1:A:446:GLN:C[6_574]	1.94	0.26
1:A:211:ALA:CA	1:A:449:ARG:O[6_574]	1.94	0.26
1:A:227:PHE:CD2	1:B:463:PRO:CG[5_454]	1.94	0.26
1:A:230:ASN:CB	1:B:246:GLY:CA[5_454]	1.94	0.26
1:A:232:THR:N	1:B:244:SER:C[5_454]	1.94	0.26
1:A:233:PHE:CD1	1:A:243:MET:SD[5_454]	1.94	0.26
1:A:237:ASP:O	1:A:295:GLN:O[5_454]	1.94	0.26
1:A:240:TYR:CB	1:A:295:GLN:CG[5_454]	1.94	0.26
1:A:247:PHE:CG	1:A:293:PHE:CA[5_454]	1.94	0.26
1:A:250:ASN:CA	1:A:291:ASN:N[5_454]	1.94	0.26
1:A:251:VAL:CA	1:A:300:ARG:CB[5_454]	1.94	0.26
1:A:251:VAL:CB	1:A:300:ARG:CB[5_454]	1.94	0.26
1:A:252:VAL:CG1	1:A:302:ASP:C[5_454]	1.94	0.26
1:A:253:LYS:CA	1:A:302:ASP:CA[5_454]	1.94	0.26
1:A:257:HIS:O	1:A:331:LYS:N[8_664]	1.94	0.26
1:A:260:PHE:CG	1:B:212:TYR:O[3_675]	1.94	0.26
1:A:262:GLN:CD	1:A:331:LYS:C[8_664]	1.94	0.26
1:A:268:GLY:CA	1:A:308:PRO:O[8_664]	1.94	0.26
1:A:282:ALA:C	1:A:299:ASP:CB[5_454]	1.94	0.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:283:ILE:CA	1:A:298:ARG:O[5_454]	1.94	0.26
1:A:283:ILE:CD1	1:A:298:ARG:CG[5_454]	1.94	0.26
1:A:324:ALA:O	1:A:326:ARG:CG[8_664]	1.94	0.26
1:A:347:GLN:C	1:A:362:THR:N[4_465]	1.94	0.26
1:A:347:GLN:N	1:A:361:LEU:O[4_465]	1.94	0.26
1:A:370:THR:O	1:A:372:VAL:N[3_665]	1.94	0.26
1:A:373:ASN:ND2	1:A:431:LYS:CD[4_465]	1.94	0.26
1:A:375:HIS:CG	1:A:375:HIS:CG[3_665]	1.94	0.26
1:A:395:ASP:CA	1:A:441:LEU:CB[4_465]	1.94	0.26
1:A:430:LEU:CA	1:A:432:LYS:CD[2_575]	1.94	0.26
1:A:430:LEU:CD1	1:A:436:GLU:N[4_465]	1.94	0.26
1:A:456:ILE:CD1	1:B:249:LYS:CE[6_574]	1.94	0.26
1:A:458:LYS:CD	1:A:462:THR:OG1[2_475]	1.94	0.26
1:A:469:ASP:C	1:B:251:VAL:CG1[5_454]	1.94	0.26
1:B:98:ILE:CG2	1:B:345:GLY:CA[3_675]	1.94	0.26
1:B:110:SER:CA	1:B:434:LEU:CA[3_675]	1.94	0.26
1:B:116:LEU:CD2	1:B:432:LYS:CD[3_675]	1.94	0.26
1:B:138:PHE:N	1:B:431:LYS:CE[3_675]	1.94	0.26
1:B:162:ARG:O	1:B:270:THR:CG2[4_365]	1.94	0.26
1:B:162:ARG:CD	1:B:269:PHE:N[4_365]	1.94	0.26
1:B:171:VAL:CG2	1:B:318:ARG:NH2[4_365]	1.94	0.26
1:B:214:TYR:CD1	1:B:277:LYS:N[4_365]	1.94	0.26
1:B:219:ALA:CB	1:B:260:PHE:CB[4_365]	1.94	0.26
1:B:254:ILE:O	6:B:893:HOH:O[3_675]	1.94	0.26
1:B:257:HIS:O	1:B:450:LYS:CA[3_675]	1.94	0.26
1:B:289:PHE:CB	1:B:471:GLN:O[2_475]	1.94	0.26
1:B:291:ASN:CG	1:B:298:ARG:CB[2_475]	1.94	0.26
1:B:299:ASP:C	1:B:299:ASP:O[2_475]	1.94	0.26
1:B:312:ASP:CG	1:B:357:SER:C[3_675]	1.94	0.26
1:B:313:GLN:CB	1:B:371:LYS:CE[3_675]	1.94	0.26
1:B:318:ARG:CB	1:B:442:ILE:CB[3_675]	1.94	0.26
1:B:322:ASP:C	1:B:447:ALA:CB[3_675]	1.94	0.26
1:B:337:SER:O	1:B:371:LYS:O[3_675]	1.94	0.26
1:B:338:THR:N	1:B:375:HIS:O[3_675]	1.94	0.26
1:B:339:PHE:CE1	1:B:344:GLN:NE2[3_675]	1.94	0.26
1:A:91:GLN:N	1:A:449:ARG:CG[4_465]	1.95	0.25
1:A:98:ILE:C	1:A:206:LEU:CD1[8_664]	1.95	0.25
1:A:99:ASP:CB	1:A:450:LYS:N[4_465]	1.95	0.25
1:A:99:ASP:CA	1:A:449:ARG:C[4_465]	1.95	0.25
1:A:100:TYR:CD2	1:A:203:TRP:N[8_664]	1.95	0.25
1:A:103:LEU:CG	1:A:196:THR:O[8_664]	1.95	0.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:114:LYS:NZ	1:B:448:ARG:CB[5_454]	1.95	0.25
1:A:116:LEU:O	1:B:221:ASP:CB[5_454]	1.95	0.25
1:A:116:LEU:O	1:B:221:ASP:N[5_454]	1.95	0.25
1:A:126:GLN:O	1:B:227:PHE:CZ[5_454]	1.95	0.25
1:A:129:HIS:N	1:B:460:PHE:CD1[5_454]	1.95	0.25
1:A:131:PHE:C	1:B:456:ILE:CG1[5_454]	1.95	0.25
1:A:135:GLY:CA	1:B:453:THR:N[5_454]	1.95	0.25
1:A:141:ARG:N	1:A:279:SER:CA[8_664]	1.95	0.25
1:A:143:MET:CB	1:B:213:SER:O[5_454]	1.95	0.25
1:A:144:ASN:N	1:B:214:TYR:C[5_454]	1.95	0.25
1:A:145:GLN:CA	1:B:214:TYR:CD2[5_454]	1.95	0.25
1:A:147:LEU:CA	1:B:164:PRO:CA[5_454]	1.95	0.25
1:A:149:ALA:O	1:B:199:GLU:CB[5_454]	1.95	0.25
1:A:151:GLU:OE2	1:B:162:ARG:CD[5_454]	1.95	0.25
1:A:155:PRO:CG	1:B:198:ASP:OD2[5_454]	1.95	0.25
1:A:156:PHE:CD1	1:B:237:ASP:N[5_454]	1.95	0.25
1:A:186:VAL:C	1:B:193:ILE:N[5_454]	1.95	0.25
1:A:186:VAL:CG2	1:B:233:PHE:O[5_454]	1.95	0.25
1:A:189:VAL:CG2	1:B:240:TYR:CB[5_454]	1.95	0.25
1:A:201:TYR:CA	1:A:450:LYS:CB[6_574]	1.95	0.25
1:A:205:ASP:O	1:A:445:HIS:N[6_574]	1.95	0.25
1:A:225:CYS:CA	6:A:816:HOH:O[3_665]	1.95	0.25
1:A:231:LYS:O	1:B:244:SER:CB[5_454]	1.95	0.25
1:A:237:ASP:O	1:A:465:LYS:CA[5_454]	1.95	0.25
1:A:241:MET:CE	1:A:296:ILE:C[5_454]	1.95	0.25
1:A:255:GLN:C	1:A:321:ARG:NH2[8_664]	1.95	0.25
1:A:260:PHE:N	1:B:213:SER:N[3_675]	1.95	0.25
1:A:264:LYS:CA	1:A:307:ILE:CA[8_664]	1.95	0.25
1:A:264:LYS:CA	1:A:307:ILE:N[8_664]	1.95	0.25
1:A:268:GLY:C	1:A:308:PRO:CB[8_664]	1.95	0.25
1:A:274:CYS:O	1:B:220:LYS:NZ[3_675]	1.95	0.25
1:A:277:LYS:CE	1:B:454:ASP:CB[3_675]	1.95	0.25
1:A:326:ARG:NH1	1:A:329:TYR:O[8_664]	1.95	0.25
1:A:336:HIS:CB	6:A:910:HOH:O[3_675]	1.95	0.25
1:A:342:ALA:O	1:A:363:ASP:CG[4_465]	1.95	0.25
1:A:345:GLY:O	1:A:360:PHE:O[4_465]	1.95	0.25
1:A:346:ALA:O	1:A:361:LEU:C[4_465]	1.95	0.25
1:A:351:SER:C	1:A:351:SER:OG[8_664]	1.95	0.25
1:A:371:LYS:C	1:A:375:HIS:CA[3_665]	1.95	0.25
1:A:380:GLY:CA	1:A:403:LEU:N[4_465]	1.95	0.25
1:A:455:GLU:CG	1:A:464:ARG:C[2_475]	1.95	0.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:LYS:NZ	1:A:462:THR:C[6_574]	1.95	0.25
1:A:467:SER:OG	1:B:246:GLY:CA[5_454]	1.95	0.25
1:B:276:GLY:CA	6:A:874:HOH:O[8_664]	1.95	0.25
1:B:106:ARG:CG	1:B:405:PHE:CD1[3_675]	1.95	0.25
1:B:109:SER:O	1:B:437:VAL:CB[3_675]	1.95	0.25
1:B:116:LEU:CD2	1:B:432:LYS:CB[3_675]	1.95	0.25
1:B:132:LEU:O	6:B:888:HOH:O[3_675]	1.95	0.25
1:B:138:PHE:C	1:B:431:LYS:CA[3_675]	1.95	0.25
1:B:167:GLU:OE2	1:B:276:GLY:C[4_365]	1.95	0.25
1:B:167:GLU:CD	1:B:280:PHE:N[4_365]	1.95	0.25
1:B:222:ILE:CB	1:B:261:ASN:C[4_365]	1.95	0.25
1:B:297:PHE:CB	6:B:865:HOH:O[2_475]	1.95	0.25
1:B:307:ILE:O	1:B:367:GLN:N[3_675]	1.95	0.25
1:B:313:GLN:CB	1:B:363:ASP:OD2[3_675]	1.95	0.25
1:B:316:TYR:CB	1:B:362:THR:N[3_675]	1.95	0.25
1:B:316:TYR:N	1:B:360:PHE:CA[3_675]	1.95	0.25
1:B:317:PHE:CG	1:B:364:THR:N[3_675]	1.95	0.25
1:B:319:MET:CB	6:B:891:HOH:O[3_675]	1.95	0.25
1:B:319:MET:SD	6:B:832:HOH:O[3_675]	1.95	0.25
1:B:322:ASP:CG	1:B:444:GLU:O[3_675]	1.95	0.25
1:B:328:GLY:C	1:B:470:PHE:N[2_475]	1.95	0.25
1:B:328:GLY:CA	1:B:469:ASP:N[2_475]	1.95	0.25
1:B:333:ALA:C	1:B:439:GLN:NE2[3_675]	1.95	0.25
1:B:340:PHE:N	6:B:834:HOH:O[3_675]	1.95	0.25
1:A:89:THR:CA	1:A:164:PRO:CG[8_664]	1.96	0.24
1:A:99:ASP:OD2	1:A:208:LEU:CB[8_664]	1.96	0.24
1:A:100:TYR:O	1:A:198:ASP:O[8_664]	1.96	0.24
1:A:105:VAL:O	1:A:295:GLN:O[3_675]	1.96	0.24
1:A:107:PHE:O	1:A:298:ARG:CB[3_675]	1.96	0.24
1:A:107:PHE:O	1:A:283:ILE:CD1[8_664]	1.96	0.24
1:A:117:ILE:CD1	1:B:262:GLN:CD[8_664]	1.96	0.24
1:A:137:PHE:O	1:B:453:THR:O[5_454]	1.96	0.24
1:A:139:SER:O	1:A:277:LYS:C[8_664]	1.96	0.24
1:A:141:ARG:CD	1:A:472:HIS:CB[3_675]	1.96	0.24
1:A:142:ASP:OD2	1:B:210:GLN:N[5_454]	1.96	0.24
1:A:143:MET:N	1:B:278:ILE:CB[8_664]	1.96	0.24
1:A:143:MET:C	1:B:215:ALA:N[5_454]	1.96	0.24
1:A:146:VAL:CG2	1:B:211:ALA:O[5_454]	1.96	0.24
1:A:182:TRP:NE1	1:B:232:THR:C[5_454]	1.96	0.24
1:A:183:LEU:CB	1:B:461:MET:CB[5_454]	1.96	0.24
1:A:185:ASP:N	1:B:233:PHE:CD1[5_454]	1.96	0.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:199:GLU:OE2	1:A:312:ASP:N[8_664]	1.96	0.24
1:A:203:TRP:CE2	1:A:311:ILE:N[8_664]	1.96	0.24
1:A:203:TRP:O	1:A:338:THR:CA[8_664]	1.96	0.24
1:A:218:ASN:CG	6:A:882:HOH:O[6_574]	1.96	0.24
1:A:227:PHE:CE2	1:B:463:PRO:CG[5_454]	1.96	0.24
1:A:229:ILE:O	1:B:245:SER:CA[5_454]	1.96	0.24
1:A:230:ASN:CA	1:B:245:SER:O[5_454]	1.96	0.24
1:A:241:MET:CB	1:A:296:ILE:C[5_454]	1.96	0.24
1:A:250:ASN:CG	6:A:886:HOH:O[5_454]	1.96	0.24
1:A:256:LYS:O	1:B:210:GLN:NE2[3_675]	1.96	0.24
1:A:258:VAL:CA	1:A:331:LYS:CB[8_664]	1.96	0.24
1:A:267:PHE:CE2	1:A:317:PHE:CE2[8_664]	1.96	0.24
1:A:269:PHE:N	1:A:308:PRO:CD[8_664]	1.96	0.24
1:A:284:GLN:N	1:A:318:ARG:CZ[8_664]	1.96	0.24
1:A:299:ASP:CB	1:A:318:ARG:CD[4_365]	1.96	0.24
1:A:314:ASP:N	1:A:316:TYR:CE1[8_664]	1.96	0.24
1:A:319:MET:SD	1:A:474:HIS:NE2[5_454]	1.96	0.24
1:A:323:VAL:O	1:A:325:PRO:CD[8_664]	1.96	0.24
1:A:335:LEU:CG	1:B:216:VAL:CG2[5_454]	1.96	0.24
1:A:343:LEU:CA	1:A:367:GLN:C[4_465]	1.96	0.24
1:A:371:LYS:CB	1:A:374:LYS:O[2_575]	1.96	0.24
1:A:374:LYS:CA	1:A:376:ALA:N[4_465]	1.96	0.24
1:A:381:ARG:NE	1:A:405:PHE:O[4_465]	1.96	0.24
1:A:382:ASP:CB	1:A:405:PHE:CE1[4_465]	1.96	0.24
1:A:385:GLU:C	6:A:866:HOH:O[4_465]	1.96	0.24
1:A:388:ARG:CA	1:A:413:LEU:CG[4_465]	1.96	0.24
1:A:397:ASP:C	1:A:438:LEU:CA[4_465]	1.96	0.24
1:A:412:LYS:C	1:A:423:GLY:O[3_665]	1.96	0.24
1:A:458:LYS:CE	1:A:462:THR:CA[6_574]	1.96	0.24
1:A:465:LYS:NZ	1:B:252:VAL:CB[5_454]	1.96	0.24
1:A:466:LEU:CA	6:B:823:HOH:O[5_454]	1.96	0.24
6:A:821:HOH:O	6:A:891:HOH:O[3_665]	1.96	0.24
1:B:208:LEU:CA	6:A:826:HOH:O[5_454]	1.96	0.24
1:B:210:GLN:CA	6:A:837:HOH:O[5_454]	1.96	0.24
1:B:458:LYS:CG	6:A:906:HOH:O[4_365]	1.96	0.24
1:B:105:VAL:CG1	1:B:404:THR:CA[3_675]	1.96	0.24
1:B:110:SER:N	1:B:433:ALA:O[3_675]	1.96	0.24
1:B:114:LYS:CD	1:B:388:ARG:NH1[3_675]	1.96	0.24
1:B:133:ARG:C	4:B:815:GOL:O1[3_675]	1.96	0.24
1:B:138:PHE:O	1:B:431:LYS:CG[3_675]	1.96	0.24
1:B:140:HIS:CA	1:B:435:ILE:CA[3_675]	1.96	0.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:210:GLN:O	1:B:274:CYS:N[4_365]	1.96	0.24
1:B:214:TYR:CE1	1:B:277:LYS:CA[4_365]	1.96	0.24
1:B:214:TYR:OH	1:B:274:CYS:SG[4_365]	1.96	0.24
1:B:220:LYS:O	1:B:262:GLN:CB[4_365]	1.96	0.24
1:B:258:VAL:CA	1:B:449:ARG:O[3_675]	1.96	0.24
1:B:300:ARG:CA	1:B:300:ARG:CB[2_475]	1.96	0.24
1:B:317:PHE:CB	1:B:363:ASP:C[3_675]	1.96	0.24
1:B:335:LEU:O	1:B:371:LYS:N[3_675]	1.96	0.24
1:B:336:HIS:CB	1:B:372:VAL:N[3_675]	1.96	0.24
1:B:382:ASP:OD1	1:B:400:PHE:CZ[4_365]	1.96	0.24
1:B:425:MET:C	2:B:808:CL:CL[4_365]	1.96	0.24
1:A:93:SER:OG	1:A:214:TYR:CD1[8_664]	1.97	0.23
1:A:93:SER:N	1:A:214:TYR:CG[8_664]	1.97	0.23
1:A:98:ILE:CG2	1:A:200:LYS:CA[8_664]	1.97	0.23
1:A:100:TYR:CA	1:A:202:LEU:N[8_664]	1.97	0.23
1:A:102:LYS:NZ	1:A:212:TYR:CB[8_664]	1.97	0.23
1:A:107:PHE:CZ	1:A:280:PHE:CZ[8_664]	1.97	0.23
1:A:115:GLU:N	1:B:319:MET:CE[8_664]	1.97	0.23
1:A:116:LEU:CD1	1:B:218:ASN:CA[5_454]	1.97	0.23
1:A:122:ARG:CD	1:B:174:LEU:C[5_454]	1.97	0.23
1:A:126:GLN:C	1:B:227:PHE:CD1[5_454]	1.97	0.23
1:A:129:HIS:CG	1:B:229:ILE:CG1[5_454]	1.97	0.23
1:A:133:ARG:N	1:A:390:PHE:CZ[3_665]	1.97	0.23
1:A:136:ILE:O	1:B:455:GLU:N[5_454]	1.97	0.23
1:A:138:PHE:CD2	1:A:202:LEU:CD1[8_664]	1.97	0.23
1:A:142:ASP:O	1:B:273:ASP:O[8_664]	1.97	0.23
1:A:143:MET:N	1:B:214:TYR:CA[5_454]	1.97	0.23
1:A:144:ASN:CG	1:B:166:SER:O[5_454]	1.97	0.23
1:A:147:LEU:N	1:B:270:THR:CA[8_664]	1.97	0.23
1:A:151:GLU:N	1:B:270:THR:CG2[8_664]	1.97	0.23
1:A:151:GLU:C	5:B:817:TRP:CA[5_454]	1.97	0.23
1:A:153:LYS:O	1:B:280:PHE:CD2[5_454]	1.97	0.23
1:A:156:PHE:CG	1:B:271:ASP:CB[8_664]	1.97	0.23
1:A:157:TYR:OH	1:A:249:LYS:CE[5_454]	1.97	0.23
1:A:157:TYR:CG	1:B:238:LEU:C[5_454]	1.97	0.23
1:A:158:LEU:N	1:B:240:TYR:N[5_454]	1.97	0.23
1:A:171:VAL:CG2	1:A:377:PHE:CD2[3_665]	1.97	0.23
1:A:182:TRP:O	1:B:234:ILE:N[5_454]	1.97	0.23
1:A:203:TRP:NE1	1:A:337:SER:C[8_664]	1.97	0.23
1:A:206:LEU:CG	1:A:446:GLN:CB[6_574]	1.97	0.23
1:A:212:TYR:OH	1:A:456:ILE:C[6_574]	1.97	0.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:228:ASP:OD2	1:B:294:PRO:CG[5_454]	1.97	0.23
1:A:235:PHE:CA	1:A:454:ASP:CG[6_574]	1.97	0.23
1:A:251:VAL:C	1:A:301:THR:N[5_454]	1.97	0.23
1:A:252:VAL:CG1	1:A:303:ILE:N[5_454]	1.97	0.23
1:A:253:LYS:NZ	1:A:329:TYR:CD1[5_454]	1.97	0.23
1:A:259:THR:CG2	1:A:304:GLN:CD[8_664]	1.97	0.23
1:A:270:THR:OG1	1:B:461:MET:C[3_675]	1.97	0.23
1:A:275:ILE:O	1:A:471:GLN:NE2[5_454]	1.97	0.23
1:A:280:PHE:CA	1:A:336:HIS:NE2[8_664]	1.97	0.23
1:A:281:PRO:N	1:A:472:HIS:O[5_454]	1.97	0.23
1:A:284:GLN:OE1	1:A:315:PRO:CG[8_664]	1.97	0.23
1:A:284:GLN:CA	1:A:318:ARG:CD[8_664]	1.97	0.23
1:A:304:GLN:CD	1:B:211:ALA:CB[5_454]	1.97	0.23
1:A:307:ILE:CG1	1:A:475:HIS:CD2[3_675]	1.97	0.23
1:A:323:VAL:N	1:A:323:VAL:C[8_664]	1.97	0.23
1:A:326:ARG:N	1:A:326:ARG:CA[8_664]	1.97	0.23
1:A:335:LEU:CD2	1:B:216:VAL:CB[5_454]	1.97	0.23
1:A:341:PRO:CB	1:A:364:THR:CA[4_465]	1.97	0.23
1:A:345:GLY:N	1:A:363:ASP:CG[4_465]	1.97	0.23
1:A:373:ASN:ND2	1:A:435:ILE:CG1[3_665]	1.97	0.23
1:A:381:ARG:C	1:A:401:MET:C[4_465]	1.97	0.23
1:A:381:ARG:O	1:A:401:MET:CA[4_465]	1.97	0.23
1:A:384:ILE:O	6:A:866:HOH:O[4_465]	1.97	0.23
1:A:388:ARG:O	1:A:410:ASP:CA[4_465]	1.97	0.23
1:A:396:VAL:N	1:A:441:LEU:CD2[4_465]	1.97	0.23
1:A:399:SER:C	1:A:439:GLN:CG[4_465]	1.97	0.23
1:A:400:PHE:C	4:A:814:GOL:O2[3_665]	1.97	0.23
1:A:420:TYR:CD1	1:A:437:VAL:CG2[4_465]	1.97	0.23
1:A:425:MET:O	1:A:436:GLU:OE2[2_575]	1.97	0.23
1:A:430:LEU:O	1:A:432:LYS:CB[4_465]	1.97	0.23
1:A:439:GLN:OE1	4:A:814:GOL:C3[2_575]	1.97	0.23
1:A:455:GLU:OE1	1:A:463:PRO:C[2_475]	1.97	0.23
1:A:459:GLU:CD	1:A:459:GLU:OE1[2_475]	1.97	0.23
1:B:99:ASP:CG	1:B:401:MET:CG[3_675]	1.97	0.23
1:B:105:VAL:CA	1:B:402:TYR:O[3_675]	1.97	0.23
1:B:140:HIS:NE2	1:B:436:GLU:CG[3_675]	1.97	0.23
1:B:140:HIS:CB	1:B:435:ILE:CG1[3_675]	1.97	0.23
1:B:148:ASP:CG	1:B:152:ASN:ND2[2_475]	1.97	0.23
1:B:195:MET:O	1:B:271:ASP:CB[4_365]	1.97	0.23
1:B:218:ASN:ND2	1:B:269:PHE:CE2[4_365]	1.97	0.23
1:B:312:ASP:CA	1:B:358:SER:N[3_675]	1.97	0.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:317:PHE:N	1:B:360:PHE:O[3_675]	1.97	0.23
1:B:317:PHE:CZ	1:B:363:ASP:CA[3_675]	1.97	0.23
1:B:335:LEU:CB	1:B:369:LYS:O[3_675]	1.97	0.23
1:B:338:THR:CG2	1:B:376:ALA:CA[3_675]	1.97	0.23
1:B:339:PHE:CD2	1:B:343:LEU:N[3_675]	1.97	0.23
1:B:344:GLN:OE1	6:B:840:HOH:O[4_365]	1.97	0.23
1:A:90:VAL:N	1:A:164:PRO:CB[8_664]	1.98	0.22
1:A:91:GLN:O	1:A:214:TYR:CZ[8_664]	1.98	0.22
1:A:99:ASP:OD1	1:A:451:GLU:CG[4_465]	1.98	0.22
1:A:99:ASP:CA	1:A:211:ALA:CB[8_664]	1.98	0.22
1:A:100:TYR:C	1:A:201:TYR:CD2[8_664]	1.98	0.22
1:A:103:LEU:C	1:A:298:ARG:NH2[3_675]	1.98	0.22
1:A:105:VAL:O	6:A:876:HOH:O[3_675]	1.98	0.22
1:A:111:LYS:C	1:A:275:ILE:CG1[8_664]	1.98	0.22
1:A:121:GLU:O	1:B:177:PHE:CE1[5_454]	1.98	0.22
1:A:122:ARG:NE	1:B:173:HIS:C[5_454]	1.98	0.22
1:A:122:ARG:C	1:B:177:PHE:CD1[5_454]	1.98	0.22
1:A:122:ARG:CB	1:B:177:PHE:CE2[5_454]	1.98	0.22
1:A:125:GLY:C	1:B:180:THR:CG2[5_454]	1.98	0.22
1:A:138:PHE:CE2	1:A:202:LEU:CD1[8_664]	1.98	0.22
1:A:139:SER:O	1:A:277:LYS:CA[8_664]	1.98	0.22
1:A:140:HIS:CE1	1:B:279:SER:N[8_664]	1.98	0.22
1:A:140:HIS:CA	1:A:275:ILE:O[8_664]	1.98	0.22
1:A:146:VAL:N	1:B:273:ASP:CB[8_664]	1.98	0.22
1:A:159:TYR:CD1	1:A:265:GLY:C[8_664]	1.98	0.22
1:A:160:THR:OG1	1:A:268:GLY:CA[8_664]	1.98	0.22
1:A:176:PRO:CA	1:B:458:LYS:CE[5_454]	1.98	0.22
1:A:179:PHE:N	1:B:459:GLU:CA[5_454]	1.98	0.22
1:A:181:LYS:CA	1:B:463:PRO:C[5_454]	1.98	0.22
1:A:184:GLN:O	1:B:233:PHE:CD2[5_454]	1.98	0.22
1:A:186:VAL:CG2	1:B:233:PHE:C[5_454]	1.98	0.22
1:A:187:PHE:CA	1:B:193:ILE:O[5_454]	1.98	0.22
1:A:198:ASP:O	1:A:450:LYS:CG[6_574]	1.98	0.22
1:A:206:LEU:N	1:A:446:GLN:N[6_574]	1.98	0.22
1:A:210:GLN:NE2	1:A:445:HIS:CB[6_574]	1.98	0.22
1:A:212:TYR:CZ	1:A:457:VAL:CB[6_574]	1.98	0.22
1:A:213:SER:CB	1:A:219:ALA:C[6_574]	1.98	0.22
1:A:214:TYR:O	1:A:217:GLU:OE1[6_574]	1.98	0.22
1:A:232:THR:N	1:B:243:MET:C[5_454]	1.98	0.22
1:A:238:LEU:C	1:A:465:LYS:CB[5_454]	1.98	0.22
1:A:239:ASP:CG	1:A:464:ARG:CG[5_454]	1.98	0.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:247:PHE:CE1	1:A:294:PRO:CD[5_454]	1.98	0.22
1:A:249:LYS:CA	1:A:290:SER:N[5_454]	1.98	0.22
1:A:254:ILE:O	1:A:321:ARG:NH2[8_664]	1.98	0.22
1:A:261:ASN:N	1:B:212:TYR:CB[3_675]	1.98	0.22
1:A:264:LYS:C	1:A:475:HIS:CD2[5_454]	1.98	0.22
1:A:266:ILE:N	1:A:475:HIS:ND1[5_454]	1.98	0.22
1:A:270:THR:CG2	1:B:458:LYS:CA[3_675]	1.98	0.22
1:A:271:ASP:CB	1:B:234:ILE:CG2[3_675]	1.98	0.22
1:A:275:ILE:CA	1:B:220:LYS:CE[3_675]	1.98	0.22
1:A:277:LYS:C	1:A:473:HIS:CD2[5_454]	1.98	0.22
1:A:284:GLN:C	1:A:318:ARG:CD[8_664]	1.98	0.22
1:A:297:PHE:CE1	6:A:818:HOH:O[5_454]	1.98	0.22
1:A:307:ILE:N	1:B:212:TYR:OH[5_454]	1.98	0.22
1:A:317:PHE:O	1:A:474:HIS:CD2[3_675]	1.98	0.22
1:A:319:MET:CE	1:A:474:HIS:ND1[5_454]	1.98	0.22
1:A:326:ARG:NH1	4:B:812:GOL:O2[3_675]	1.98	0.22
1:A:326:ARG:NH2	4:B:812:GOL:C2[3_675]	1.98	0.22
1:A:331:LYS:C	1:B:209:ASP:CB[5_454]	1.98	0.22
1:A:334:LEU:CD1	1:A:474:HIS:CB[3_675]	1.98	0.22
1:A:341:PRO:CD	1:A:364:THR:CA[4_465]	1.98	0.22
1:A:347:GLN:CD	1:A:360:PHE:CA[4_465]	1.98	0.22
1:A:348:THR:C	1:A:362:THR:O[4_465]	1.98	0.22
1:A:359:ILE:CD1	1:A:377:PHE:CB[3_665]	1.98	0.22
1:A:359:ILE:CG1	1:A:377:PHE:N[3_665]	1.98	0.22
1:A:359:ILE:CB	1:A:377:PHE:CD1[3_665]	1.98	0.22
1:A:368:ILE:CG1	1:A:398:VAL:CA[3_665]	1.98	0.22
1:A:372:VAL:N	1:A:374:LYS:N[2_575]	1.98	0.22
1:A:381:ARG:CB	1:A:404:THR:CB[4_465]	1.98	0.22
1:A:381:ARG:O	1:A:402:TYR:N[4_465]	1.98	0.22
1:A:382:ASP:O	1:A:439:GLN:O[2_575]	1.98	0.22
1:A:388:ARG:CA	1:A:413:LEU:CD2[4_465]	1.98	0.22
1:A:388:ARG:CA	6:A:856:HOH:O[4_465]	1.98	0.22
1:A:392:GLY:C	1:A:407:LEU:N[4_465]	1.98	0.22
1:A:393:ASN:ND2	1:A:441:LEU:CD1[4_465]	1.98	0.22
1:A:412:LYS:CG	1:A:419:ASP:O[3_665]	1.98	0.22
1:A:431:LYS:O	1:A:431:LYS:CB[3_665]	1.98	0.22
1:A:468:PHE:CD1	1:B:247:PHE:C[5_454]	1.98	0.22
1:A:469:ASP:CB	1:B:252:VAL:N[5_454]	1.98	0.22
1:B:210:GLN:C	6:A:837:HOH:O[5_454]	1.98	0.22
1:B:100:TYR:CG	1:B:398:VAL:CA[3_675]	1.98	0.22
1:B:105:VAL:CG1	1:B:404:THR:N[3_675]	1.98	0.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:105:VAL:CB	1:B:404:THR:CA[3_675]	1.98	0.22
1:B:107:PHE:C	1:B:406:PHE:CG[3_675]	1.98	0.22
1:B:110:SER:OG	1:B:436:GLU:CB[3_675]	1.98	0.22
1:B:138:PHE:O	1:B:431:LYS:N[3_675]	1.98	0.22
1:B:140:HIS:ND1	1:B:432:LYS:CA[3_675]	1.98	0.22
1:B:163:GLY:C	1:B:270:THR:CG2[4_365]	1.98	0.22
1:B:211:ALA:C	1:B:273:ASP:C[4_365]	1.98	0.22
1:B:219:ALA:N	1:B:260:PHE:CA[4_365]	1.98	0.22
1:B:220:LYS:C	1:B:259:THR:C[4_365]	1.98	0.22
1:B:236:SER:CA	1:B:271:ASP:CG[4_365]	1.98	0.22
1:B:309:CYS:CA	1:B:371:LYS:CG[3_675]	1.98	0.22
1:B:310:ALA:C	1:B:343:LEU:CD1[3_675]	1.98	0.22
1:B:314:ASP:N	1:B:359:ILE:C[3_675]	1.98	0.22
1:B:317:PHE:CE1	1:B:363:ASP:CA[3_675]	1.98	0.22
1:B:321:ARG:CZ	1:B:439:GLN:C[3_675]	1.98	0.22
1:B:323:VAL:CA	1:B:447:ALA:N[3_675]	1.98	0.22
1:B:326:ARG:CZ	1:B:448:ARG:CZ[3_675]	1.98	0.22
1:B:335:LEU:C	1:B:369:LYS:CA[3_675]	1.98	0.22
1:A:89:THR:N	1:A:164:PRO:CA[8_664]	1.99	0.21
1:A:90:VAL:CA	1:A:211:ALA:O[8_664]	1.99	0.21
1:A:91:GLN:O	1:A:221:ASP:OD2[4_465]	1.99	0.21
1:A:94:SER:C	1:A:445:HIS:CE1[4_465]	1.99	0.21
1:A:99:ASP:CA	1:A:448:ARG:C[4_465]	1.99	0.21
1:A:100:TYR:CD2	1:A:202:LEU:N[8_664]	1.99	0.21
1:A:100:TYR:CD1	1:A:200:LYS:O[8_664]	1.99	0.21
1:A:104:ILE:CG2	1:B:255:GLN:OE1[8_664]	1.99	0.21
1:A:105:VAL:CG2	1:B:248:TYR:CG[8_664]	1.99	0.21
1:A:106:ARG:CG	1:A:237:ASP:CA[8_664]	1.99	0.21
1:A:109:SER:CA	6:A:842:HOH:O[8_664]	1.99	0.21
1:A:109:SER:C	6:A:842:HOH:O[8_664]	1.99	0.21
1:A:116:LEU:CA	1:B:263:VAL:CA[8_664]	1.99	0.21
1:A:117:ILE:CG1	1:B:262:GLN:NE2[8_664]	1.99	0.21
1:A:117:ILE:CD1	1:B:259:THR:N[8_664]	1.99	0.21
1:A:118:ASN:CB	1:B:445:HIS:NE2[5_454]	1.99	0.21
1:A:123:ALA:O	1:B:161:GLY:C[5_454]	1.99	0.21
1:A:132:LEU:CD1	1:A:271:ASP:O[8_664]	1.99	0.21
1:A:132:LEU:CB	1:B:452:VAL:CG2[5_454]	1.99	0.21
1:A:137:PHE:CB	1:A:273:ASP:CB[8_664]	1.99	0.21
1:A:142:ASP:C	1:B:274:CYS:O[8_664]	1.99	0.21
1:A:142:ASP:O	1:B:274:CYS:O[8_664]	1.99	0.21
1:A:146:VAL:CB	1:B:270:THR:O[8_664]	1.99	0.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:147:LEU:CA	1:B:164:PRO:CG[5_454]	1.99	0.21
1:A:156:PHE:C	1:B:237:ASP:O[5_454]	1.99	0.21
1:A:156:PHE:CZ	1:B:236:SER:N[5_454]	1.99	0.21
1:A:159:TYR:C	1:A:264:LYS:O[8_664]	1.99	0.21
1:A:179:PHE:CA	1:B:459:GLU:N[5_454]	1.99	0.21
1:A:181:LYS:O	1:B:233:PHE:CD1[5_454]	1.99	0.21
1:A:182:TRP:CE3	1:B:460:PHE:C[5_454]	1.99	0.21
1:A:182:TRP:O	1:B:233:PHE:C[5_454]	1.99	0.21
1:A:182:TRP:C	1:B:233:PHE:CD1[5_454]	1.99	0.21
1:A:197:ASP:CA	6:A:840:HOH:O[6_574]	1.99	0.21
1:A:205:ASP:OD1	1:A:440:PRO:O[6_574]	1.99	0.21
1:A:238:LEU:O	1:A:466:LEU:N[5_454]	1.99	0.21
1:A:239:ASP:CA	1:A:465:LYS:N[5_454]	1.99	0.21
1:A:239:ASP:CG	1:A:464:ARG:CD[5_454]	1.99	0.21
1:A:257:HIS:C	1:A:331:LYS:CD[8_664]	1.99	0.21
1:A:257:HIS:N	1:A:331:LYS:CD[8_664]	1.99	0.21
1:A:260:PHE:CE2	1:A:306:LEU:CG[8_664]	1.99	0.21
1:A:261:ASN:CB	1:A:305:CYS:CA[8_664]	1.99	0.21
1:A:269:PHE:N	1:A:308:PRO:O[8_664]	1.99	0.21
1:A:270:THR:C	1:B:461:MET:CE[3_675]	1.99	0.21
1:A:271:ASP:N	1:B:461:MET:SD[3_675]	1.99	0.21
1:A:275:ILE:CB	1:B:217:GLU:OE2[3_675]	1.99	0.21
1:A:277:LYS:CB	1:A:336:HIS:CB[8_664]	1.99	0.21
1:A:278:ILE:C	1:A:473:HIS:CB[5_454]	1.99	0.21
1:A:281:PRO:CD	1:A:472:HIS:O[5_454]	1.99	0.21
1:A:283:ILE:CG1	1:A:298:ARG:CD[5_454]	1.99	0.21
1:A:313:GLN:O	1:A:316:TYR:CD2[8_664]	1.99	0.21
1:A:314:ASP:C	1:A:316:TYR:CG[8_664]	1.99	0.21
1:A:333:ALA:CB	1:B:212:TYR:CA[5_454]	1.99	0.21
1:A:334:LEU:CB	1:A:473:HIS:C[3_675]	1.99	0.21
1:A:347:GLN:NE2	1:A:360:PHE:CA[4_465]	1.99	0.21
1:A:347:GLN:N	1:A:362:THR:CA[4_465]	1.99	0.21
1:A:368:ILE:CB	1:A:398:VAL:CA[3_665]	1.99	0.21
1:A:370:THR:N	1:A:376:ALA:O[2_575]	1.99	0.21
1:A:373:ASN:CG	1:A:431:LYS:CG[2_575]	1.99	0.21
1:A:380:GLY:O	1:A:402:TYR:C[4_465]	1.99	0.21
1:A:388:ARG:CZ	1:A:416:ILE:N[4_465]	1.99	0.21
1:A:402:TYR:CA	1:A:439:GLN:NE2[4_465]	1.99	0.21
1:A:408:GLU:CA	1:A:421:THR:O[3_665]	1.99	0.21
1:A:417:ARG:CB	2:A:807:CL:CL[3_665]	1.99	0.21
1:A:454:ASP:N	6:A:895:HOH:O[2_475]	1.99	0.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:455:GLU:CD	1:A:464:ARG:C[2_475]	1.99	0.21
1:A:455:GLU:CD	1:A:463:PRO:C[2_475]	1.99	0.21
1:A:469:ASP:CG	1:B:252:VAL:CB[5_454]	1.99	0.21
1:B:249:LYS:NZ	6:A:825:HOH:O[5_454]	1.99	0.21
1:B:105:VAL:CG2	1:B:403:LEU:CA[3_675]	1.99	0.21
1:B:106:ARG:O	1:B:406:PHE:CD2[3_675]	1.99	0.21
1:B:114:LYS:CD	1:B:388:ARG:NH2[3_675]	1.99	0.21
1:B:114:LYS:CB	1:B:429:GLU:OE1[3_675]	1.99	0.21
1:B:141:ARG:CB	1:B:435:ILE:O[3_675]	1.99	0.21
1:B:162:ARG:NE	1:B:269:PHE:CA[4_365]	1.99	0.21
1:B:164:PRO:CD	1:B:270:THR:CG2[4_365]	1.99	0.21
1:B:166:SER:OG	1:B:203:TRP:CE2[4_365]	1.99	0.21
1:B:167:GLU:CG	1:B:278:ILE:N[4_365]	1.99	0.21
1:B:167:GLU:OE1	1:B:279:SER:CB[4_365]	1.99	0.21
1:B:169:MET:C	1:B:267:PHE:CE2[4_365]	1.99	0.21
1:B:197:ASP:CA	1:B:271:ASP:C[4_365]	1.99	0.21
1:B:219:ALA:C	1:B:261:ASN:CA[4_365]	1.99	0.21
1:B:220:LYS:O	1:B:259:THR:OG1[4_365]	1.99	0.21
1:B:221:ASP:N	1:B:262:GLN:N[4_365]	1.99	0.21
1:B:317:PHE:CE1	1:B:363:ASP:OD1[3_675]	1.99	0.21
1:B:322:ASP:CA	1:B:444:GLU:C[3_675]	1.99	0.21
1:B:322:ASP:CB	1:B:445:HIS:C[3_675]	1.99	0.21
1:B:322:ASP:OD1	1:B:444:GLU:CA[3_675]	1.99	0.21
1:B:329:TYR:N	1:B:469:ASP:O[2_475]	1.99	0.21
1:B:337:SER:C	1:B:371:LYS:O[3_675]	1.99	0.21
1:A:96:LYS:CD	6:A:877:HOH:O[4_465]	2.00	0.20
1:A:98:ILE:CA	1:A:446:GLN:O[4_465]	2.00	0.20
1:A:99:ASP:N	1:A:449:ARG:CA[4_465]	2.00	0.20
1:A:99:ASP:OD1	1:A:451:GLU:N[4_465]	2.00	0.20
1:A:100:TYR:CA	1:A:450:LYS:CB[4_465]	2.00	0.20
1:A:103:LEU:CD2	1:A:198:ASP:OD1[8_664]	2.00	0.20
1:A:103:LEU:C	1:A:198:ASP:OD1[8_664]	2.00	0.20
1:A:103:LEU:CB	1:A:198:ASP:O[8_664]	2.00	0.20
1:A:106:ARG:NH1	1:A:235:PHE:O[8_664]	2.00	0.20
1:A:111:LYS:CG	6:B:893:HOH:O[5_454]	2.00	0.20
1:A:111:LYS:CA	1:B:255:GLN:CA[8_664]	2.00	0.20
1:A:119:ARG:NE	1:B:268:GLY:C[8_664]	2.00	0.20
1:A:119:ARG:C	1:B:222:ILE:CG1[5_454]	2.00	0.20
1:A:119:ARG:N	1:B:262:GLN:C[8_664]	2.00	0.20
1:A:126:GLN:C	1:B:227:PHE:CE2[5_454]	2.00	0.20
1:A:128:PRO:O	1:B:460:PHE:CZ[5_454]	2.00	0.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:134:ARG:NE	1:A:389:GLN:C[3_665]	2.00	0.20
1:A:137:PHE:CE2	6:A:906:HOH:O[8_664]	2.00	0.20
1:A:138:PHE:CE1	1:A:202:LEU:CB[8_664]	2.00	0.20
1:A:142:ASP:C	1:B:214:TYR:CA[5_454]	2.00	0.20
1:A:142:ASP:O	1:B:213:SER:C[5_454]	2.00	0.20
1:A:145:GLN:O	1:B:164:PRO:O[5_454]	2.00	0.20
1:A:147:LEU:CD2	1:B:269:PHE:O[8_664]	2.00	0.20
1:A:147:LEU:O	1:B:163:GLY:N[5_454]	2.00	0.20
1:A:148:ASP:CA	1:B:163:GLY:O[5_454]	2.00	0.20
1:A:149:ALA:CA	1:B:200:LYS:CG[5_454]	2.00	0.20
1:A:157:TYR:N	1:B:238:LEU:CB[5_454]	2.00	0.20
1:A:182:TRP:CZ2	1:B:460:PHE:CD1[5_454]	2.00	0.20
1:A:183:LEU:CD2	1:A:271:ASP:OD1[8_664]	2.00	0.20
1:A:185:ASP:N	1:B:233:PHE:CZ[5_454]	2.00	0.20
1:A:191:LEU:C	1:B:242:GLY:C[5_454]	2.00	0.20
1:A:205:ASP:O	1:A:443:ALA:C[6_574]	2.00	0.20
1:A:212:TYR:CD2	1:A:223:ILE:CD1[6_574]	2.00	0.20
1:A:232:THR:CA	1:B:243:MET:O[5_454]	2.00	0.20
1:A:250:ASN:N	1:A:290:SER:CB[5_454]	2.00	0.20
1:A:260:PHE:CE1	1:A:335:LEU:CD1[8_664]	2.00	0.20
1:A:262:GLN:N	1:A:306:LEU:N[8_664]	2.00	0.20
1:A:273:ASP:OD2	1:B:458:LYS:N[3_675]	2.00	0.20
1:A:273:ASP:N	1:B:457:VAL:N[3_675]	2.00	0.20
1:A:277:LYS:O	1:A:473:HIS:CD2[5_454]	2.00	0.20
1:A:278:ILE:CG1	1:B:216:VAL:CB[3_675]	2.00	0.20
1:A:278:ILE:CB	1:A:473:HIS:CG[5_454]	2.00	0.20
1:A:280:PHE:C	1:A:314:ASP:OD1[8_664]	2.00	0.20
1:A:304:GLN:OE1	1:B:211:ALA:CA[5_454]	2.00	0.20
1:A:306:LEU:O	1:B:239:ASP:OD1[5_454]	2.00	0.20
1:A:306:LEU:CA	1:B:212:TYR:CG[5_454]	2.00	0.20
1:A:314:ASP:CB	1:A:316:TYR:CE2[8_664]	2.00	0.20
1:A:324:ALA:C	1:A:326:ARG:CD[8_664]	2.00	0.20
1:A:331:LYS:O	1:B:208:LEU:O[5_454]	2.00	0.20
1:A:332:PRO:CG	1:B:209:ASP:CG[5_454]	2.00	0.20
1:A:334:LEU:CB	1:A:474:HIS:N[3_675]	2.00	0.20
1:A:343:LEU:C	1:A:371:LYS:CD[4_465]	2.00	0.20
1:A:343:LEU:CD2	1:A:367:GLN:C[4_465]	2.00	0.20
1:A:351:SER:O	1:A:354:ASP:OD1[8_664]	2.00	0.20
1:A:365:ALA:O	1:A:402:TYR:CE2[3_665]	2.00	0.20
1:A:369:LYS:CD	1:A:378:SER:CA[2_575]	2.00	0.20
1:A:370:THR:O	1:A:375:HIS:C[2_575]	2.00	0.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:381:ARG:CA	1:A:401:MET:O[4_465]	2.00	0.20
1:A:396:VAL:CA	1:A:441:LEU:CG[4_465]	2.00	0.20
1:A:400:PHE:O	4:A:814:GOL:O2[3_665]	2.00	0.20
1:A:412:LYS:CE	1:A:419:ASP:C[3_665]	2.00	0.20
1:A:429:GLU:N	1:A:432:LYS:CB[2_575]	2.00	0.20
1:A:430:LEU:C	1:A:432:LYS:N[4_465]	2.00	0.20
1:A:456:ILE:N	1:A:464:ARG:CB[2_475]	2.00	0.20
1:A:468:PHE:O	1:B:248:TYR:O[5_454]	2.00	0.20
1:A:469:ASP:CG	1:B:251:VAL:C[5_454]	2.00	0.20
1:B:100:TYR:C	1:B:400:PHE:N[3_675]	2.00	0.20
1:B:102:LYS:CA	1:B:401:MET:O[3_675]	2.00	0.20
1:B:110:SER:O	1:B:431:LYS:O[3_675]	2.00	0.20
1:B:113:ASP:N	1:B:429:GLU:CB[3_675]	2.00	0.20
1:B:116:LEU:CA	1:B:432:LYS:CE[3_675]	2.00	0.20
1:B:170:HIS:CA	1:B:315:PRO:CG[4_365]	2.00	0.20
1:B:210:GLN:O	1:B:274:CYS:O[4_365]	2.00	0.20
1:B:211:ALA:CA	1:B:274:CYS:N[4_365]	2.00	0.20
1:B:266:ILE:CG1	1:B:361:LEU:CD1[3_675]	2.00	0.20
1:B:313:GLN:N	1:B:359:ILE:CA[3_675]	2.00	0.20
1:B:315:PRO:C	1:B:360:PHE:O[3_675]	2.00	0.20
1:B:316:TYR:N	1:B:361:LEU:CA[3_675]	2.00	0.20
1:B:322:ASP:OD1	1:B:444:GLU:N[3_675]	2.00	0.20
1:B:337:SER:OG	1:B:375:HIS:N[3_675]	2.00	0.20
1:B:339:PHE:CZ	1:B:357:SER:O[3_675]	2.00	0.20
1:B:344:GLN:CG	1:B:349:LYS:CB[4_365]	2.00	0.20
1:A:91:GLN:C	1:A:214:TYR:CB[8_664]	2.01	0.19
1:A:95:ALA:CA	1:A:361:LEU:CG[4_465]	2.01	0.19
1:A:99:ASP:C	1:A:201:TYR:CA[8_664]	2.01	0.19
1:A:99:ASP:OD2	1:A:208:LEU:N[8_664]	2.01	0.19
1:A:107:PHE:C	1:A:298:ARG:CG[3_675]	2.01	0.19
1:A:107:PHE:O	1:A:283:ILE:N[8_664]	2.01	0.19
1:A:108:GLY:O	1:A:251:VAL:CG1[8_664]	2.01	0.19
1:A:111:LYS:CE	1:B:253:LYS:C[8_664]	2.01	0.19
1:A:117:ILE:CG2	1:B:262:GLN:CD[8_664]	2.01	0.19
1:A:127:ARG:C	1:B:227:PHE:CG[5_454]	2.01	0.19
1:A:128:PRO:CB	1:B:223:ILE:N[5_454]	2.01	0.19
1:A:128:PRO:C	6:B:910:HOH:O[8_664]	2.01	0.19
1:A:129:HIS:CE1	1:B:229:ILE:CG1[5_454]	2.01	0.19
1:A:130:HIS:CE1	1:A:381:ARG:NH2[3_665]	2.01	0.19
1:A:132:LEU:O	1:B:452:VAL:N[5_454]	2.01	0.19
1:A:136:ILE:O	1:A:277:LYS:NZ[8_664]	2.01	0.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:137:PHE:CB	1:B:454:ASP:C[5_454]	2.01	0.19
1:A:141:ARG:CG	1:A:472:HIS:N[3_675]	2.01	0.19
1:A:141:ARG:NH2	1:A:282:ALA:CA[8_664]	2.01	0.19
1:A:144:ASN:CG	1:B:167:GLU:N[5_454]	2.01	0.19
1:A:144:ASN:OD1	1:B:166:SER:O[5_454]	2.01	0.19
1:A:145:GLN:C	1:B:273:ASP:CG[8_664]	2.01	0.19
1:A:149:ALA:O	1:B:199:GLU:OE1[5_454]	2.01	0.19
1:A:150:TYR:OH	1:B:194:GLN:N[5_454]	2.01	0.19
1:A:151:GLU:N	1:B:163:GLY:N[5_454]	2.01	0.19
1:A:151:GLU:CG	1:B:162:ARG:C[5_454]	2.01	0.19
1:A:156:PHE:CD1	1:B:236:SER:CB[5_454]	2.01	0.19
1:A:158:LEU:C	1:B:239:ASP:CB[5_454]	2.01	0.19
1:A:168:ALA:CA	1:A:168:ALA:CB[6_574]	2.01	0.19
1:A:186:VAL:N	1:B:233:PHE:CB[5_454]	2.01	0.19
1:A:201:TYR:N	1:A:450:LYS:CG[6_574]	2.01	0.19
1:A:205:ASP:CG	1:A:443:ALA:N[6_574]	2.01	0.19
1:A:212:TYR:C	1:A:220:LYS:CG[6_574]	2.01	0.19
1:A:214:TYR:CA	1:A:217:GLU:O[6_574]	2.01	0.19
1:A:230:ASN:C	1:B:244:SER:C[5_454]	2.01	0.19
1:A:231:LYS:C	1:B:243:MET:C[5_454]	2.01	0.19
1:A:236:SER:N	1:A:454:ASP:CA[6_574]	2.01	0.19
1:A:243:MET:SD	1:A:462:THR:O[5_454]	2.01	0.19
1:A:245:SER:N	1:A:293:PHE:CE2[5_454]	2.01	0.19
1:A:278:ILE:C	1:A:473:HIS:NE2[5_454]	2.01	0.19
1:A:292:SER:C	1:A:292:SER:C[5_454]	2.01	0.19
1:A:306:LEU:CD1	1:B:212:TYR:CE1[5_454]	2.01	0.19
1:A:307:ILE:CA	1:A:475:HIS:CE1[3_675]	2.01	0.19
1:A:313:GLN:C	1:A:316:TYR:CD1[8_664]	2.01	0.19
1:A:314:ASP:CA	1:A:316:TYR:CZ[8_664]	2.01	0.19
1:A:318:ARG:C	1:A:320:THR:OG1[8_664]	2.01	0.19
1:A:320:THR:O	1:A:323:VAL:N[8_664]	2.01	0.19
1:A:342:ALA:CB	1:A:367:GLN:OE1[4_465]	2.01	0.19
1:A:344:GLN:C	1:A:359:ILE:CA[4_465]	2.01	0.19
1:A:344:GLN:N	1:A:363:ASP:OD2[4_465]	2.01	0.19
1:A:354:ASP:CA	1:A:354:ASP:CB[8_664]	2.01	0.19
1:A:369:LYS:O	1:A:373:ASN:CB[4_465]	2.01	0.19
1:A:372:VAL:CA	1:A:374:LYS:N[2_575]	2.01	0.19
1:A:373:ASN:CA	1:A:373:ASN:C[4_465]	2.01	0.19
1:A:381:ARG:NE	1:A:405:PHE:C[4_465]	2.01	0.19
1:A:409:ASP:O	1:A:423:GLY:N[3_665]	2.01	0.19
1:A:443:ALA:CA	6:A:880:HOH:O[3_665]	2.01	0.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:455:GLU:CD	1:A:464:ARG:O[2_475]	2.01	0.19
1:A:459:GLU:CA	1:A:459:GLU:CB[2_475]	2.01	0.19
1:A:461:MET:O	1:A:463:PRO:CD[5_454]	2.01	0.19
1:A:468:PHE:CE2	1:B:247:PHE:CZ[5_454]	2.01	0.19
1:B:248:TYR:OH	6:A:876:HOH:O[5_454]	2.01	0.19
1:B:98:ILE:CB	1:B:346:ALA:CA[3_675]	2.01	0.19
1:B:99:ASP:O	1:B:401:MET:CG[3_675]	2.01	0.19
1:B:100:TYR:O	1:B:400:PHE:N[3_675]	2.01	0.19
1:B:100:TYR:OH	1:B:344:GLN:C[3_675]	2.01	0.19
1:B:217:GLU:CB	1:B:278:ILE:CB[4_365]	2.01	0.19
1:B:221:ASP:N	1:B:263:VAL:N[4_365]	2.01	0.19
1:B:300:ARG:NH2	1:B:303:ILE:O[2_475]	2.01	0.19
1:B:309:CYS:N	1:B:370:THR:CB[3_675]	2.01	0.19
1:B:310:ALA:C	1:B:371:LYS:CB[3_675]	2.01	0.19
1:B:320:THR:O	1:B:446:GLN:OE1[3_675]	2.01	0.19
1:B:322:ASP:OD2	1:B:444:GLU:O[3_675]	2.01	0.19
1:B:336:HIS:ND1	1:B:368:ILE:O[3_675]	2.01	0.19
1:A:89:THR:N	1:A:163:GLY:C[8_664]	2.02	0.18
1:A:93:SER:C	1:A:221:ASP:CG[4_465]	2.02	0.18
1:A:94:SER:N	1:A:214:TYR:OH[8_664]	2.02	0.18
1:A:96:LYS:C	1:A:206:LEU:CD2[8_664]	2.02	0.18
1:A:97:GLY:N	1:A:445:HIS:ND1[4_465]	2.02	0.18
1:A:100:TYR:CB	1:A:202:LEU:CA[8_664]	2.02	0.18
1:A:100:TYR:CA	1:A:201:TYR:N[8_664]	2.02	0.18
1:A:101:ASP:O	1:B:252:VAL:CB[8_664]	2.02	0.18
1:A:101:ASP:CB	1:A:451:GLU:CG[4_465]	2.02	0.18
1:A:102:LYS:CA	1:A:451:GLU:C[4_465]	2.02	0.18
1:A:107:PHE:CB	1:A:280:PHE:CE1[8_664]	2.02	0.18
1:A:107:PHE:CE2	1:A:280:PHE:CE1[8_664]	2.02	0.18
1:A:108:GLY:N	1:A:283:ILE:CG1[8_664]	2.02	0.18
1:A:109:SER:N	1:A:470:PHE:O[3_675]	2.02	0.18
1:A:110:SER:CB	1:A:471:GLN:N[3_675]	2.02	0.18
1:A:113:ASP:CB	1:B:258:VAL:CG2[8_664]	2.02	0.18
1:A:120:ILE:CG1	1:B:219:ALA:C[5_454]	2.02	0.18
1:A:122:ARG:CG	1:B:265:GLY:O[8_664]	2.02	0.18
1:A:127:ARG:CD	1:B:226:GLY:C[5_454]	2.02	0.18
1:A:134:ARG:NE	1:A:390:PHE:CA[3_665]	2.02	0.18
1:A:138:PHE:CE2	1:A:202:LEU:CD2[8_664]	2.02	0.18
1:A:141:ARG:CZ	1:A:472:HIS:CD2[3_675]	2.02	0.18
1:A:145:GLN:CB	1:B:214:TYR:CD2[5_454]	2.02	0.18
1:A:148:ASP:CA	1:B:164:PRO:N[5_454]	2.02	0.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:148:ASP:CA	1:B:164:PRO:C[5_454]	2.02	0.18
1:A:159:TYR:CE1	1:A:265:GLY:O[8_664]	2.02	0.18
1:A:179:PHE:CA	1:B:458:LYS:C[5_454]	2.02	0.18
1:A:180:THR:C	1:B:463:PRO:N[5_454]	2.02	0.18
1:A:180:THR:O	1:B:463:PRO:N[5_454]	2.02	0.18
1:A:181:LYS:NZ	1:B:464:ARG:C[5_454]	2.02	0.18
1:A:181:LYS:CD	1:B:464:ARG:O[5_454]	2.02	0.18
1:A:181:LYS:CE	1:B:465:LYS:N[5_454]	2.02	0.18
1:A:182:TRP:CG	1:B:460:PHE:O[5_454]	2.02	0.18
1:A:183:LEU:CG	1:A:271:ASP:N[8_664]	2.02	0.18
1:A:188:ASN:O	1:B:235:PHE:CE2[5_454]	2.02	0.18
1:A:197:ASP:O	1:A:450:LYS:O[6_574]	2.02	0.18
1:A:199:GLU:N	1:A:450:LYS:CE[6_574]	2.02	0.18
1:A:200:LYS:N	1:A:450:LYS:CG[6_574]	2.02	0.18
1:A:205:ASP:OD2	1:A:444:GLU:CA[6_574]	2.02	0.18
1:A:206:LEU:CD2	1:A:446:GLN:CA[6_574]	2.02	0.18
1:A:209:ASP:C	1:A:224:ALA:CB[6_574]	2.02	0.18
1:A:212:TYR:CZ	1:A:457:VAL:CG2[6_574]	2.02	0.18
1:A:214:TYR:CE1	1:A:221:ASP:OD1[6_574]	2.02	0.18
1:A:214:TYR:O	1:A:449:ARG:NH2[6_574]	2.02	0.18
1:A:215:ALA:N	1:A:220:LYS:CG[6_574]	2.02	0.18
1:A:228:ASP:CG	1:B:294:PRO:CB[5_454]	2.02	0.18
1:A:229:ILE:CD1	1:A:459:GLU:OE1[2_475]	2.02	0.18
1:A:230:ASN:CA	1:B:245:SER:OG[5_454]	2.02	0.18
1:A:242:GLY:C	1:A:466:LEU:CD1[5_454]	2.02	0.18
1:A:252:VAL:CG1	1:A:302:ASP:O[5_454]	2.02	0.18
1:A:257:HIS:CB	1:B:207:THR:OG1[3_675]	2.02	0.18
1:A:258:VAL:CG2	1:B:209:ASP:CB[3_675]	2.02	0.18
1:A:261:ASN:N	1:B:212:TYR:CG[3_675]	2.02	0.18
1:A:261:ASN:C	1:A:306:LEU:CA[8_664]	2.02	0.18
1:A:263:VAL:C	1:A:307:ILE:C[8_664]	2.02	0.18
1:A:263:VAL:C	1:A:307:ILE:CG1[8_664]	2.02	0.18
1:A:274:CYS:CB	1:B:452:VAL:O[3_675]	2.02	0.18
1:A:275:ILE:CD1	1:B:449:ARG:NH1[3_675]	2.02	0.18
1:A:277:LYS:C	1:A:336:HIS:N[8_664]	2.02	0.18
1:A:278:ILE:CA	1:A:334:LEU:C[8_664]	2.02	0.18
1:A:283:ILE:CG1	1:A:298:ARG:CA[5_454]	2.02	0.18
1:A:321:ARG:CD	1:A:472:HIS:CE1[3_675]	2.02	0.18
1:A:324:ALA:CA	1:A:326:ARG:NE[8_664]	2.02	0.18
1:A:369:LYS:NZ	1:A:434:LEU:O[3_665]	2.02	0.18
1:A:369:LYS:O	1:A:372:VAL:CG1[3_665]	2.02	0.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:372:VAL:CA	1:A:431:LYS:NZ[3_665]	2.02	0.18
1:A:416:ILE:CG1	1:A:424:ALA:O[3_665]	2.02	0.18
1:A:421:THR:OG1	6:A:858:HOH:O[4_465]	2.02	0.18
1:A:430:LEU:CB	1:A:432:LYS:C[4_465]	2.02	0.18
1:A:457:VAL:N	6:A:901:HOH:O[2_475]	2.02	0.18
1:B:208:LEU:C	6:A:826:HOH:O[5_454]	2.02	0.18
1:B:452:VAL:CA	6:A:860:HOH:O[5_454]	2.02	0.18
1:B:94:SER:CA	1:B:94:SER:CB[3_675]	2.02	0.18
1:B:99:ASP:O	1:B:401:MET:SD[3_675]	2.02	0.18
1:B:100:TYR:CD1	1:B:398:VAL:CG2[3_675]	2.02	0.18
1:B:104:ILE:CG2	1:B:403:LEU:CG[3_675]	2.02	0.18
1:B:111:LYS:NZ	1:B:430:LEU:CD1[3_675]	2.02	0.18
1:B:114:LYS:CG	1:B:426:LEU:CG[3_675]	2.02	0.18
1:B:163:GLY:N	1:B:270:THR:CG2[4_365]	2.02	0.18
1:B:164:PRO:C	1:B:273:ASP:OD1[4_365]	2.02	0.18
1:B:165:SER:OG	6:B:867:HOH:O[4_365]	2.02	0.18
1:B:210:GLN:C	1:B:274:CYS:CB[4_365]	2.02	0.18
1:B:211:ALA:CA	1:B:273:ASP:O[4_365]	2.02	0.18
1:B:259:THR:N	1:B:452:VAL:CG1[3_675]	2.02	0.18
1:B:300:ARG:NH2	1:B:302:ASP:C[2_475]	2.02	0.18
1:B:307:ILE:CD1	1:B:364:THR:N[3_675]	2.02	0.18
1:B:316:TYR:CE1	1:B:360:PHE:CB[3_675]	2.02	0.18
1:B:316:TYR:CA	1:B:361:LEU:CA[3_675]	2.02	0.18
1:B:317:PHE:O	6:B:901:HOH:O[3_675]	2.02	0.18
1:B:321:ARG:O	1:B:443:ALA:C[3_675]	2.02	0.18
1:A:90:VAL:CA	1:A:220:LYS:CD[4_465]	2.03	0.17
1:A:93:SER:CA	1:A:221:ASP:CG[4_465]	2.03	0.17
1:A:93:SER:OG	1:A:221:ASP:CB[4_465]	2.03	0.17
1:A:101:ASP:OD2	1:B:253:LYS:CB[8_664]	2.03	0.17
1:A:103:LEU:CA	1:A:198:ASP:CG[8_664]	2.03	0.17
1:A:103:LEU:CD1	1:A:199:GLU:CB[8_664]	2.03	0.17
1:A:110:SER:CA	1:A:471:GLN:CG[3_675]	2.03	0.17
1:A:115:GLU:N	1:B:221:ASP:OD1[5_454]	2.03	0.17
1:A:116:LEU:CD1	6:B:820:HOH:O[5_454]	2.03	0.17
1:A:117:ILE:O	1:B:222:ILE:C[5_454]	2.03	0.17
1:A:120:ILE:CA	1:B:264:LYS:CB[8_664]	2.03	0.17
1:A:127:ARG:CA	1:B:227:PHE:CD2[5_454]	2.03	0.17
1:A:130:HIS:CA	1:A:390:PHE:CG[3_665]	2.03	0.17
1:A:135:GLY:C	1:B:453:THR:N[5_454]	2.03	0.17
1:A:136:ILE:C	1:B:453:THR:C[5_454]	2.03	0.17
1:A:137:PHE:CE2	1:A:273:ASP:OD1[8_664]	2.03	0.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:143:MET:N	1:B:278:ILE:CD1[8_664]	2.03	0.17
1:A:144:ASN:CA	1:B:214:TYR:CB[5_454]	2.03	0.17
1:A:146:VAL:CA	1:B:273:ASP:N[8_664]	2.03	0.17
1:A:156:PHE:O	1:B:237:ASP:CB[5_454]	2.03	0.17
1:A:156:PHE:N	1:B:198:ASP:CG[5_454]	2.03	0.17
1:A:158:LEU:CG	1:A:264:LYS:CD[8_664]	2.03	0.17
1:A:166:SER:CB	1:A:347:GLN:C[8_664]	2.03	0.17
1:A:178:ILE:O	1:B:459:GLU:O[5_454]	2.03	0.17
1:A:189:VAL:CG1	1:B:237:ASP:OD1[5_454]	2.03	0.17
1:A:203:TRP:CG	1:A:337:SER:C[8_664]	2.03	0.17
1:A:205:ASP:CB	6:A:880:HOH:O[8_664]	2.03	0.17
1:A:210:GLN:O	1:A:220:LYS:O[6_574]	2.03	0.17
1:A:229:ILE:CD1	1:A:459:GLU:CD[2_475]	2.03	0.17
1:A:230:ASN:CA	1:B:245:SER:CB[5_454]	2.03	0.17
1:A:239:ASP:OD1	1:A:464:ARG:CG[5_454]	2.03	0.17
1:A:239:ASP:C	1:A:455:GLU:OE2[6_574]	2.03	0.17
1:A:240:TYR:CB	1:A:295:GLN:CD[5_454]	2.03	0.17
1:A:251:VAL:CB	1:A:297:PHE:O[5_454]	2.03	0.17
1:A:253:LYS:CE	1:A:329:TYR:CG[5_454]	2.03	0.17
1:A:267:PHE:CG	1:A:309:CYS:SG[8_664]	2.03	0.17
1:A:271:ASP:CA	1:B:461:MET:CG[3_675]	2.03	0.17
1:A:272:SER:C	1:B:457:VAL:N[3_675]	2.03	0.17
1:A:272:SER:CB	1:B:460:PHE:CD2[3_675]	2.03	0.17
1:A:273:ASP:CA	1:B:457:VAL:N[3_675]	2.03	0.17
1:A:279:SER:N	1:A:473:HIS:ND1[5_454]	2.03	0.17
1:A:317:PHE:O	1:A:474:HIS:NE2[3_675]	2.03	0.17
1:A:329:TYR:C	4:B:812:GOL:C3[5_454]	2.03	0.17
1:A:336:HIS:CA	6:A:910:HOH:O[3_675]	2.03	0.17
1:A:336:HIS:C	1:B:454:ASP:CG[5_454]	2.03	0.17
1:A:356:ASN:ND2	1:A:375:HIS:CE1[2_575]	2.03	0.17
1:A:370:THR:O	1:A:374:LYS:C[4_465]	2.03	0.17
1:A:371:LYS:C	1:A:373:ASN:O[2_575]	2.03	0.17
1:A:374:LYS:CA	1:A:374:LYS:C[4_465]	2.03	0.17
1:A:407:LEU:CD1	1:A:423:GLY:CA[3_665]	2.03	0.17
1:A:408:GLU:OE1	1:B:230:ASN:CB[5_454]	2.03	0.17
1:A:453:THR:OG1	1:A:465:LYS:O[2_475]	2.03	0.17
1:A:458:LYS:CB	1:A:458:LYS:CE[5_454]	2.03	0.17
1:B:103:LEU:CD1	1:B:402:TYR:CZ[3_675]	2.03	0.17
1:B:110:SER:OG	1:B:433:ALA:O[3_675]	2.03	0.17
1:B:111:LYS:O	1:B:432:LYS:C[3_675]	2.03	0.17
1:B:111:LYS:C	1:B:429:GLU:O[3_675]	2.03	0.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:111:LYS:C	1:B:430:LEU:C[3_675]	2.03	0.17
1:B:111:LYS:CG	1:B:431:LYS:N[3_675]	2.03	0.17
1:B:112:ILE:N	1:B:430:LEU:C[3_675]	2.03	0.17
1:B:137:PHE:C	1:B:431:LYS:NZ[3_675]	2.03	0.17
1:B:141:ARG:NH1	1:B:438:LEU:CG[3_675]	2.03	0.17
1:B:167:GLU:OE1	1:B:280:PHE:N[4_365]	2.03	0.17
1:B:214:TYR:CZ	1:B:277:LYS:N[4_365]	2.03	0.17
1:B:217:GLU:C	1:B:263:VAL:CG2[4_365]	2.03	0.17
1:B:218:ASN:C	1:B:260:PHE:C[4_365]	2.03	0.17
1:B:220:LYS:CG	1:B:259:THR:C[4_365]	2.03	0.17
1:B:307:ILE:CG1	1:B:364:THR:CB[3_675]	2.03	0.17
1:B:312:ASP:CA	1:B:359:ILE:N[3_675]	2.03	0.17
1:B:322:ASP:CG	1:B:444:GLU:CA[3_675]	2.03	0.17
1:B:334:LEU:CD1	1:B:365:ALA:CA[3_675]	2.03	0.17
1:A:91:GLN:C	1:A:214:TYR:CE2[8_664]	2.04	0.16
1:A:92:THR:C	1:A:167:GLU:N[8_664]	2.04	0.16
1:A:100:TYR:CD2	1:A:200:LYS:C[8_664]	2.04	0.16
1:A:101:ASP:CA	1:B:252:VAL:CG1[8_664]	2.04	0.16
1:A:102:LYS:CD	1:A:238:LEU:CD1[8_664]	2.04	0.16
1:A:107:PHE:CB	1:A:283:ILE:CG2[8_664]	2.04	0.16
1:A:111:LYS:CG	1:B:254:ILE:C[8_664]	2.04	0.16
1:A:114:LYS:CB	1:B:445:HIS:C[5_454]	2.04	0.16
1:A:115:GLU:C	1:B:221:ASP:OD2[5_454]	2.04	0.16
1:A:117:ILE:N	1:B:220:LYS:C[5_454]	2.04	0.16
1:A:119:ARG:CA	1:B:266:ILE:N[8_664]	2.04	0.16
1:A:124:THR:N	1:B:177:PHE:CE1[5_454]	2.04	0.16
1:A:127:ARG:CA	1:B:227:PHE:N[5_454]	2.04	0.16
1:A:129:HIS:ND1	1:B:229:ILE:CG1[5_454]	2.04	0.16
1:A:130:HIS:CE1	1:B:229:ILE:CG2[5_454]	2.04	0.16
1:A:132:LEU:C	1:B:452:VAL:CG2[5_454]	2.04	0.16
1:A:137:PHE:CB	1:B:454:ASP:O[5_454]	2.04	0.16
1:A:137:PHE:O	1:B:452:VAL:O[5_454]	2.04	0.16
1:A:139:SER:C	1:A:471:GLN:NE2[3_675]	2.04	0.16
1:A:142:ASP:CA	1:B:213:SER:CB[5_454]	2.04	0.16
1:A:143:MET:CG	1:B:215:ALA:O[5_454]	2.04	0.16
1:A:144:ASN:ND2	1:B:167:GLU:C[5_454]	2.04	0.16
1:A:144:ASN:CG	1:B:269:PHE:CZ[8_664]	2.04	0.16
1:A:144:ASN:N	1:B:214:TYR:O[5_454]	2.04	0.16
1:A:148:ASP:C	1:B:200:LYS:CE[5_454]	2.04	0.16
1:A:150:TYR:CZ	1:B:194:GLN:O[5_454]	2.04	0.16
1:A:154:LYS:NZ	1:B:203:TRP:CE3[5_454]	2.04	0.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:156:PHE:CE1	1:B:271:ASP:CG[8_664]	2.04	0.16
1:A:158:LEU:CG	1:A:264:LYS:CE[8_664]	2.04	0.16
1:A:159:TYR:O	1:A:264:LYS:C[8_664]	2.04	0.16
1:A:159:TYR:CD2	1:A:266:ILE:N[8_664]	2.04	0.16
1:A:159:TYR:N	1:B:239:ASP:CG[5_454]	2.04	0.16
1:A:164:PRO:CB	1:A:449:ARG:NH1[6_574]	2.04	0.16
1:A:179:PHE:CE2	1:A:270:THR:CG2[8_664]	2.04	0.16
1:A:183:LEU:CB	1:B:234:ILE:O[5_454]	2.04	0.16
1:A:191:LEU:C	1:B:243:MET:CA[5_454]	2.04	0.16
1:A:200:LYS:NZ	1:A:339:PHE:CE1[8_664]	2.04	0.16
1:A:210:GLN:NE2	1:A:445:HIS:NE2[6_574]	2.04	0.16
1:A:212:TYR:CD2	1:A:452:VAL:CG1[6_574]	2.04	0.16
1:A:213:SER:C	1:A:217:GLU:O[6_574]	2.04	0.16
1:A:231:LYS:NZ	1:B:293:PHE:N[5_454]	2.04	0.16
1:A:238:LEU:CG	1:A:451:GLU:O[6_574]	2.04	0.16
1:A:239:ASP:CG	1:A:455:GLU:N[6_574]	2.04	0.16
1:A:239:ASP:N	1:A:464:ARG:CA[5_454]	2.04	0.16
1:A:239:ASP:CB	1:A:464:ARG:CG[5_454]	2.04	0.16
1:A:241:MET:C	1:A:296:ILE:CG1[5_454]	2.04	0.16
1:A:254:ILE:N	6:A:830:HOH:O[5_454]	2.04	0.16
1:A:258:VAL:CG2	1:B:209:ASP:OD2[3_675]	2.04	0.16
1:A:259:THR:CG2	1:B:208:LEU:C[3_675]	2.04	0.16
1:A:269:PHE:C	1:A:308:PRO:CG[8_664]	2.04	0.16
1:A:272:SER:O	1:B:457:VAL:N[3_675]	2.04	0.16
1:A:272:SER:OG	1:B:456:ILE:O[3_675]	2.04	0.16
1:A:277:LYS:NZ	1:A:337:SER:C[8_664]	2.04	0.16
1:A:302:ASP:CB	1:B:201:TYR:CE2[5_454]	2.04	0.16
1:A:304:GLN:N	1:B:238:LEU:CD2[5_454]	2.04	0.16
1:A:326:ARG:CZ	4:B:812:GOL:O2[3_675]	2.04	0.16
1:A:326:ARG:NH1	1:A:331:LYS:N[8_664]	2.04	0.16
1:A:332:PRO:N	1:B:209:ASP:CA[5_454]	2.04	0.16
1:A:344:GLN:CA	1:A:363:ASP:OD2[4_465]	2.04	0.16
1:A:345:GLY:O	1:A:363:ASP:CA[4_465]	2.04	0.16
1:A:351:SER:O	1:A:351:SER:OG[8_664]	2.04	0.16
1:A:384:ILE:CD1	1:A:394:CYS:SG[4_465]	2.04	0.16
1:A:387:HIS:O	1:A:413:LEU:CG[4_465]	2.04	0.16
1:A:391:GLY:O	1:A:407:LEU:O[4_465]	2.04	0.16
1:A:408:GLU:OE2	1:B:230:ASN:ND2[5_454]	2.04	0.16
1:A:412:LYS:CB	1:A:422:SER:OG[3_665]	2.04	0.16
1:A:427:THR:O	1:A:431:LYS:O[4_465]	2.04	0.16
1:A:427:THR:O	6:A:844:HOH:O[3_665]	2.04	0.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:429:GLU:N	1:A:429:GLU:C[4_465]	2.04	0.16
1:A:429:GLU:O	1:A:429:GLU:CB[3_665]	2.04	0.16
1:A:453:THR:CB	1:A:465:LYS:CA[2_475]	2.04	0.16
1:A:458:LYS:CE	1:A:458:LYS:CE[5_454]	2.04	0.16
1:B:111:LYS:N	1:B:430:LEU:O[3_675]	2.04	0.16
1:B:112:ILE:O	1:B:429:GLU:CA[3_675]	2.04	0.16
1:B:137:PHE:CE2	1:B:370:THR:C[3_675]	2.04	0.16
1:B:138:PHE:C	1:B:431:LYS:CD[3_675]	2.04	0.16
1:B:171:VAL:CB	1:B:318:ARG:NH1[4_365]	2.04	0.16
1:B:173:HIS:CE1	1:B:267:PHE:O[4_365]	2.04	0.16
1:B:176:PRO:CD	1:B:375:HIS:NE2[3_675]	2.04	0.16
1:B:203:TRP:CB	6:B:878:HOH:O[3_675]	2.04	0.16
1:B:258:VAL:CG1	1:B:449:ARG:CZ[3_675]	2.04	0.16
1:B:290:SER:OG	1:B:300:ARG:NE[2_475]	2.04	0.16
1:B:309:CYS:C	1:B:371:LYS:N[3_675]	2.04	0.16
1:B:310:ALA:N	1:B:371:LYS:CB[3_675]	2.04	0.16
1:B:314:ASP:C	1:B:359:ILE:CG2[3_675]	2.04	0.16
1:B:315:PRO:N	1:B:359:ILE:C[3_675]	2.04	0.16
1:B:319:MET:CB	1:B:361:LEU:O[3_675]	2.04	0.16
1:B:336:HIS:NE2	1:B:368:ILE:CG2[3_675]	2.04	0.16
1:B:337:SER:N	1:B:372:VAL:CA[3_675]	2.04	0.16
1:B:386:GLU:OE2	1:B:417:ARG:CZ[4_365]	2.04	0.16
1:A:91:GLN:CA	1:A:214:TYR:CG[8_664]	2.05	0.15
1:A:96:LYS:O	1:A:445:HIS:C[4_465]	2.05	0.15
1:A:97:GLY:O	1:A:206:LEU:CD1[8_664]	2.05	0.15
1:A:97:GLY:CA	1:A:206:LEU:CG[8_664]	2.05	0.15
1:A:106:ARG:CD	1:A:237:ASP:CG[8_664]	2.05	0.15
1:A:107:PHE:C	1:A:298:ARG:C[3_675]	2.05	0.15
1:A:107:PHE:O	1:A:298:ARG:CG[3_675]	2.05	0.15
1:A:113:ASP:CA	1:B:449:ARG:NH1[5_454]	2.05	0.15
1:A:122:ARG:C	1:B:177:PHE:CG[5_454]	2.05	0.15
1:A:126:GLN:CG	1:B:191:LEU:CB[5_454]	2.05	0.15
1:A:130:HIS:O	1:A:390:PHE:CG[3_665]	2.05	0.15
1:A:132:LEU:CB	1:B:223:ILE:CD1[5_454]	2.05	0.15
1:A:138:PHE:CZ	1:A:202:LEU:CA[8_664]	2.05	0.15
1:A:138:PHE:O	1:A:276:GLY:N[8_664]	2.05	0.15
1:A:141:ARG:NE	1:A:472:HIS:CD2[3_675]	2.05	0.15
1:A:141:ARG:NH2	1:A:472:HIS:CB[3_675]	2.05	0.15
1:A:147:LEU:CG	1:B:218:ASN:CB[5_454]	2.05	0.15
1:A:147:LEU:O	1:B:270:THR:N[8_664]	2.05	0.15
1:A:150:TYR:N	1:B:196:THR:C[5_454]	2.05	0.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:150:TYR:CE1	1:B:194:GLN:C[5_454]	2.05	0.15
1:A:156:PHE:CD1	1:B:236:SER:CA[5_454]	2.05	0.15
1:A:156:PHE:CG	1:A:261:ASN:ND2[8_664]	2.05	0.15
1:A:156:PHE:CB	1:A:261:ASN:CG[8_664]	2.05	0.15
1:A:157:TYR:CA	1:B:237:ASP:O[5_454]	2.05	0.15
1:A:171:VAL:CG2	1:A:377:PHE:CZ[3_665]	2.05	0.15
1:A:179:PHE:O	1:B:461:MET:CA[5_454]	2.05	0.15
1:A:187:PHE:CD2	1:B:195:MET:CG[5_454]	2.05	0.15
1:A:191:LEU:N	1:B:240:TYR:C[5_454]	2.05	0.15
1:A:192:VAL:CG1	6:B:858:HOH:O[5_454]	2.05	0.15
1:A:210:GLN:CG	1:A:445:HIS:NE2[6_574]	2.05	0.15
1:A:214:TYR:CG	1:A:221:ASP:CG[6_574]	2.05	0.15
1:A:241:MET:CE	1:A:297:PHE:CA[5_454]	2.05	0.15
1:A:249:LYS:CE	1:A:305:CYS:SG[5_454]	2.05	0.15
1:A:260:PHE:CZ	1:B:461:MET:SD[3_675]	2.05	0.15
1:A:261:ASN:O	6:A:851:HOH:O[3_675]	2.05	0.15
1:A:261:ASN:N	1:A:306:LEU:N[8_664]	2.05	0.15
1:A:267:PHE:CD1	1:A:317:PHE:CD2[8_664]	2.05	0.15
1:A:271:ASP:CB	1:B:234:ILE:CB[3_675]	2.05	0.15
1:A:337:SER:N	1:B:454:ASP:CB[5_454]	2.05	0.15
1:A:347:GLN:CG	1:A:361:LEU:CB[4_465]	2.05	0.15
1:A:348:THR:N	1:A:362:THR:N[4_465]	2.05	0.15
1:A:369:LYS:CB	1:A:434:LEU:CD2[3_665]	2.05	0.15
1:A:370:THR:OG1	1:A:377:PHE:N[2_575]	2.05	0.15
1:A:371:LYS:N	1:A:374:LYS:C[2_575]	2.05	0.15
1:A:372:VAL:O	1:A:374:LYS:N[3_665]	2.05	0.15
1:A:379:GLY:N	1:A:438:LEU:CG[4_465]	2.05	0.15
1:A:382:ASP:OD2	1:A:405:PHE:CE1[4_465]	2.05	0.15
1:A:384:ILE:N	1:A:400:PHE:CE2[4_465]	2.05	0.15
1:A:384:ILE:C	6:A:866:HOH:O[4_465]	2.05	0.15
1:A:388:ARG:NE	1:A:417:ARG:N[4_465]	2.05	0.15
1:A:400:PHE:N	1:A:439:GLN:CG[4_465]	2.05	0.15
1:A:400:PHE:C	4:A:814:GOL:C3[3_665]	2.05	0.15
1:A:408:GLU:OE1	1:B:230:ASN:OD1[5_454]	2.05	0.15
1:A:408:GLU:CG	1:B:230:ASN:ND2[5_454]	2.05	0.15
1:A:421:THR:CB	6:A:858:HOH:O[4_465]	2.05	0.15
1:A:427:THR:O	1:A:431:LYS:C[4_465]	2.05	0.15
1:A:430:LEU:CA	1:A:432:LYS:CG[2_575]	2.05	0.15
1:A:455:GLU:CG	1:A:464:ARG:CB[2_475]	2.05	0.15
1:B:102:LYS:N	1:B:400:PHE:O[3_675]	2.05	0.15
1:B:108:GLY:C	1:B:437:VAL:CB[3_675]	2.05	0.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:167:GLU:CB	1:B:277:LYS:C[4_365]	2.05	0.15
1:B:168:ALA:N	1:B:269:PHE:CZ[4_365]	2.05	0.15
1:B:169:MET:CG	1:B:267:PHE:N[4_365]	2.05	0.15
1:B:196:THR:O	1:B:272:SER:OG[4_365]	2.05	0.15
1:B:221:ASP:CG	1:B:263:VAL:CG1[4_365]	2.05	0.15
1:B:258:VAL:CB	1:B:449:ARG:NH1[3_675]	2.05	0.15
1:B:281:PRO:CG	6:B:824:HOH:O[3_675]	2.05	0.15
1:B:298:ARG:CB	1:B:301:THR:CG2[2_475]	2.05	0.15
1:B:310:ALA:O	1:B:371:LYS:CB[3_675]	2.05	0.15
1:B:321:ARG:NH2	1:B:440:PRO:N[3_675]	2.05	0.15
1:B:337:SER:C	1:B:375:HIS:N[3_675]	2.05	0.15
1:A:89:THR:O	1:A:215:ALA:CA[8_664]	2.06	0.14
1:A:93:SER:N	1:A:214:TYR:CE1[8_664]	2.06	0.14
1:A:93:SER:C	1:A:221:ASP:OD2[4_465]	2.06	0.14
1:A:100:TYR:CD2	1:A:200:LYS:O[8_664]	2.06	0.14
1:A:100:TYR:N	1:A:450:LYS:CB[4_465]	2.06	0.14
1:A:100:TYR:CZ	1:A:204:LYS:CA[8_664]	2.06	0.14
1:A:101:ASP:O	1:A:465:LYS:CE[3_675]	2.06	0.14
1:A:110:SER:OG	1:A:471:GLN:N[3_675]	2.06	0.14
1:A:116:LEU:O	1:B:262:GLN:C[8_664]	2.06	0.14
1:A:116:LEU:CB	1:B:449:ARG:NH2[5_454]	2.06	0.14
1:A:119:ARG:N	1:B:266:ILE:N[8_664]	2.06	0.14
1:A:122:ARG:NH1	1:B:173:HIS:C[5_454]	2.06	0.14
1:A:124:THR:C	1:B:160:THR:OG1[5_454]	2.06	0.14
1:A:132:LEU:CD2	1:A:272:SER:O[8_664]	2.06	0.14
1:A:137:PHE:CE2	1:B:454:ASP:O[5_454]	2.06	0.14
1:A:138:PHE:N	1:B:453:THR:C[5_454]	2.06	0.14
1:A:141:ARG:CB	1:A:472:HIS:CA[3_675]	2.06	0.14
1:A:142:ASP:CG	1:B:274:CYS:C[8_664]	2.06	0.14
1:A:142:ASP:OD1	6:A:890:HOH:O[3_675]	2.06	0.14
1:A:145:GLN:C	1:B:164:PRO:O[5_454]	2.06	0.14
1:A:147:LEU:C	1:B:270:THR:CA[8_664]	2.06	0.14
1:A:151:GLU:CA	5:B:817:TRP:OXT[5_454]	2.06	0.14
1:A:154:LYS:O	1:B:198:ASP:OD1[5_454]	2.06	0.14
1:A:156:PHE:CZ	1:B:236:SER:C[5_454]	2.06	0.14
1:A:159:TYR:O	1:A:475:HIS:CG[3_675]	2.06	0.14
1:A:166:SER:OG	1:A:347:GLN:O[8_664]	2.06	0.14
1:A:179:PHE:CD1	1:B:457:VAL:C[5_454]	2.06	0.14
1:A:180:THR:N	1:B:458:LYS:O[5_454]	2.06	0.14
1:A:186:VAL:O	1:B:192:VAL:C[5_454]	2.06	0.14
1:A:189:VAL:N	1:B:235:PHE:CD2[5_454]	2.06	0.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:191:LEU:CA	1:B:243:MET:CB[5_454]	2.06	0.14
1:A:197:ASP:O	1:A:450:LYS:CG[6_574]	2.06	0.14
1:A:206:LEU:CA	1:A:445:HIS:CA[6_574]	2.06	0.14
1:A:212:TYR:N	1:A:452:VAL:CB[6_574]	2.06	0.14
1:A:213:SER:CB	1:A:220:LYS:O[6_574]	2.06	0.14
1:A:231:LYS:N	1:B:244:SER:CA[5_454]	2.06	0.14
1:A:235:PHE:CA	1:A:454:ASP:OD2[6_574]	2.06	0.14
1:A:236:SER:C	1:A:454:ASP:N[6_574]	2.06	0.14
1:A:238:LEU:O	1:A:465:LYS:N[5_454]	2.06	0.14
1:A:239:ASP:OD1	1:A:464:ARG:CB[5_454]	2.06	0.14
1:A:247:PHE:CD2	1:A:294:PRO:N[5_454]	2.06	0.14
1:A:251:VAL:O	1:A:300:ARG:C[5_454]	2.06	0.14
1:A:257:HIS:CA	1:B:207:THR:OG1[3_675]	2.06	0.14
1:A:258:VAL:CB	1:A:332:PRO:O[8_664]	2.06	0.14
1:A:259:THR:CG2	1:A:304:GLN:NE2[8_664]	2.06	0.14
1:A:261:ASN:CA	1:A:306:LEU:CA[8_664]	2.06	0.14
1:A:261:ASN:O	1:A:305:CYS:C[8_664]	2.06	0.14
1:A:262:GLN:CA	1:A:305:CYS:SG[8_664]	2.06	0.14
1:A:263:VAL:N	1:A:333:ALA:O[8_664]	2.06	0.14
1:A:266:ILE:N	1:A:475:HIS:CD2[5_454]	2.06	0.14
1:A:269:PHE:CE1	1:A:309:CYS:O[8_664]	2.06	0.14
1:A:269:PHE:CG	1:A:308:PRO:CA[8_664]	2.06	0.14
1:A:278:ILE:C	1:A:334:LEU:O[8_664]	2.06	0.14
1:A:281:PRO:CB	1:A:314:ASP:OD1[8_664]	2.06	0.14
1:A:283:ILE:CD1	1:A:298:ARG:N[5_454]	2.06	0.14
1:A:304:GLN:C	1:B:238:LEU:CD2[5_454]	2.06	0.14
1:A:306:LEU:O	1:A:475:HIS:NE2[3_675]	2.06	0.14
1:A:323:VAL:N	1:A:323:VAL:N[8_664]	2.06	0.14
1:A:326:ARG:CZ	4:B:812:GOL:C3[3_675]	2.06	0.14
1:A:327:ILE:C	1:A:327:ILE:O[5_454]	2.06	0.14
1:A:354:ASP:CB	1:A:354:ASP:CG[8_664]	2.06	0.14
1:A:368:ILE:CD1	1:A:398:VAL:CB[3_665]	2.06	0.14
1:A:371:LYS:C	1:A:373:ASN:C[2_575]	2.06	0.14
1:A:387:HIS:CA	1:A:413:LEU:CD1[4_465]	2.06	0.14
1:A:390:PHE:C	1:A:407:LEU:O[4_465]	2.06	0.14
1:A:394:CYS:C	1:A:441:LEU:CA[4_465]	2.06	0.14
1:A:399:SER:C	1:A:439:GLN:CD[4_465]	2.06	0.14
1:A:412:LYS:CE	1:A:419:ASP:CA[3_665]	2.06	0.14
1:A:420:TYR:CB	1:A:437:VAL:CG2[4_465]	2.06	0.14
1:A:428:GLY:CA	1:A:432:LYS:CA[2_575]	2.06	0.14
1:A:430:LEU:CG	1:A:433:ALA:C[4_465]	2.06	0.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:455:GLU:N	1:A:464:ARG:N[2_475]	2.06	0.14
1:A:456:ILE:N	1:A:464:ARG:CD[2_475]	2.06	0.14
1:B:99:ASP:N	1:B:401:MET:CE[3_675]	2.06	0.14
1:B:137:PHE:CG	1:B:373:ASN:CB[3_675]	2.06	0.14
1:B:162:ARG:NH1	1:B:267:PHE:O[4_365]	2.06	0.14
1:B:171:VAL:CG1	1:B:318:ARG:NE[4_365]	2.06	0.14
1:B:210:GLN:O	1:B:273:ASP:O[4_365]	2.06	0.14
1:B:211:ALA:O	1:B:273:ASP:C[4_365]	2.06	0.14
1:B:219:ALA:N	1:B:260:PHE:CD1[4_365]	2.06	0.14
1:B:220:LYS:CB	1:B:260:PHE:N[4_365]	2.06	0.14
1:B:258:VAL:N	1:B:449:ARG:C[3_675]	2.06	0.14
1:B:258:VAL:CG2	1:B:449:ARG:CD[3_675]	2.06	0.14
1:B:306:LEU:O	1:B:366:LYS:CD[3_675]	2.06	0.14
1:B:322:ASP:C	1:B:447:ALA:CA[3_675]	2.06	0.14
1:B:360:PHE:CZ	6:B:827:HOH:O[4_365]	2.06	0.14
1:A:89:THR:O	1:A:164:PRO:CB[8_664]	2.07	0.13
1:A:94:SER:O	1:A:214:TYR:CZ[8_664]	2.07	0.13
1:A:98:ILE:CG2	1:A:200:LYS:C[8_664]	2.07	0.13
1:A:99:ASP:O	1:A:201:TYR:CB[8_664]	2.07	0.13
1:A:100:TYR:N	1:A:201:TYR:N[8_664]	2.07	0.13
1:A:100:TYR:CE1	1:A:204:LYS:O[8_664]	2.07	0.13
1:A:103:LEU:CG	1:A:199:GLU:CA[8_664]	2.07	0.13
1:A:105:VAL:CA	1:B:248:TYR:CD2[8_664]	2.07	0.13
1:A:111:LYS:N	1:A:471:GLN:OE1[3_675]	2.07	0.13
1:A:115:GLU:CG	1:B:361:LEU:CB[5_454]	2.07	0.13
1:A:118:ASN:ND2	1:B:266:ILE:CD1[8_664]	2.07	0.13
1:A:121:GLU:N	1:B:261:ASN:O[8_664]	2.07	0.13
1:A:132:LEU:N	1:B:456:ILE:CB[5_454]	2.07	0.13
1:A:137:PHE:CZ	1:A:273:ASP:OD1[8_664]	2.07	0.13
1:A:138:PHE:CE1	1:A:202:LEU:C[8_664]	2.07	0.13
1:A:139:SER:CA	1:A:471:GLN:NE2[3_675]	2.07	0.13
1:A:140:HIS:N	1:A:473:HIS:CE1[3_675]	2.07	0.13
1:A:140:HIS:ND1	1:A:275:ILE:CB[8_664]	2.07	0.13
1:A:140:HIS:NE2	1:B:278:ILE:C[8_664]	2.07	0.13
1:A:143:MET:CE	1:B:260:PHE:CE1[8_664]	2.07	0.13
1:A:144:ASN:N	1:B:278:ILE:CA[8_664]	2.07	0.13
1:A:147:LEU:CD1	1:B:218:ASN:CA[5_454]	2.07	0.13
1:A:150:TYR:CG	1:B:194:GLN:O[5_454]	2.07	0.13
1:A:151:GLU:CD	1:B:268:GLY:C[8_664]	2.07	0.13
1:A:154:LYS:CG	1:B:199:GLU:CB[5_454]	2.07	0.13
1:A:157:TYR:CA	1:B:238:LEU:N[5_454]	2.07	0.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:159:TYR:CG	1:A:266:ILE:N[8_664]	2.07	0.13
1:A:171:VAL:CG1	1:A:377:PHE:CE2[3_665]	2.07	0.13
1:A:176:PRO:O	1:B:462:THR:OG1[5_454]	2.07	0.13
1:A:179:PHE:CA	1:B:459:GLU:O[5_454]	2.07	0.13
1:A:179:PHE:CG	1:B:457:VAL:O[5_454]	2.07	0.13
1:A:180:THR:C	1:B:461:MET:O[5_454]	2.07	0.13
1:A:181:LYS:CB	1:B:464:ARG:N[5_454]	2.07	0.13
1:A:198:ASP:OD2	6:A:876:HOH:O[5_454]	2.07	0.13
1:A:203:TRP:NE1	1:A:337:SER:OG[8_664]	2.07	0.13
1:A:238:LEU:CG	1:A:451:GLU:C[6_574]	2.07	0.13
1:A:241:MET:O	1:A:296:ILE:CD1[5_454]	2.07	0.13
1:A:246:GLY:N	1:A:293:PHE:CZ[5_454]	2.07	0.13
1:A:258:VAL:CA	1:A:331:LYS:C[8_664]	2.07	0.13
1:A:259:THR:CB	1:B:212:TYR:N[3_675]	2.07	0.13
1:A:259:THR:O	1:A:305:CYS:O[8_664]	2.07	0.13
1:A:259:THR:CB	1:A:304:GLN:OE1[8_664]	2.07	0.13
1:A:260:PHE:O	1:A:306:LEU:C[8_664]	2.07	0.13
1:A:260:PHE:CG	1:A:306:LEU:CD2[8_664]	2.07	0.13
1:A:263:VAL:CB	1:A:474:HIS:N[5_454]	2.07	0.13
1:A:264:LYS:C	1:B:239:ASP:OD2[3_675]	2.07	0.13
1:A:277:LYS:NZ	1:A:338:THR:N[8_664]	2.07	0.13
1:A:278:ILE:CB	1:A:473:HIS:NE2[5_454]	2.07	0.13
1:A:279:SER:O	1:A:472:HIS:O[5_454]	2.07	0.13
1:A:280:PHE:CB	1:A:336:HIS:CD2[8_664]	2.07	0.13
1:A:282:ALA:C	1:A:472:HIS:CD2[5_454]	2.07	0.13
1:A:285:ALA:CB	1:A:318:ARG:O[8_664]	2.07	0.13
1:A:313:GLN:CA	1:A:316:TYR:CZ[8_664]	2.07	0.13
1:A:329:TYR:CD2	1:A:329:TYR:CZ[5_454]	2.07	0.13
1:A:330:PRO:CA	4:B:812:GOL:C2[5_454]	2.07	0.13
1:A:346:ALA:O	1:A:446:GLN:NE2[4_465]	2.07	0.13
1:A:359:ILE:CD1	1:A:377:PHE:N[3_665]	2.07	0.13
1:A:378:SER:C	1:A:438:LEU:CD2[4_465]	2.07	0.13
1:A:381:ARG:N	1:A:404:THR:N[4_465]	2.07	0.13
1:A:382:ASP:O	1:A:401:MET:CA[4_465]	2.07	0.13
1:A:388:ARG:NH2	1:A:416:ILE:CA[4_465]	2.07	0.13
1:A:394:CYS:C	1:A:441:LEU:CB[4_465]	2.07	0.13
1:A:395:ASP:CA	1:A:441:LEU:N[4_465]	2.07	0.13
1:A:399:SER:O	1:A:435:ILE:CG2[4_465]	2.07	0.13
1:A:400:PHE:CB	1:A:440:PRO:CD[4_465]	2.07	0.13
1:A:412:LYS:CG	1:A:424:ALA:CA[3_665]	2.07	0.13
1:A:416:ILE:CG1	1:A:425:MET:CA[3_665]	2.07	0.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:428:GLY:C	1:A:431:LYS:C[2_575]	2.07	0.13
1:A:439:GLN:CD	4:A:814:GOL:C2[2_575]	2.07	0.13
1:A:455:GLU:O	1:A:464:ARG:CD[2_475]	2.07	0.13
1:A:465:LYS:NZ	1:B:252:VAL:CG1[5_454]	2.07	0.13
1:A:467:SER:C	1:B:248:TYR:CA[5_454]	2.07	0.13
1:B:461:MET:CA	6:A:861:HOH:O[4_365]	2.07	0.13
1:B:450:LYS:N	6:A:911:HOH:O[5_454]	2.07	0.13
1:B:100:TYR:CE1	1:B:398:VAL:CG2[3_675]	2.07	0.13
1:B:107:PHE:N	1:B:406:PHE:CG[3_675]	2.07	0.13
1:B:115:GLU:N	1:B:429:GLU:CD[3_675]	2.07	0.13
1:B:162:ARG:NH2	1:B:269:PHE:N[4_365]	2.07	0.13
1:B:167:GLU:C	1:B:269:PHE:CZ[4_365]	2.07	0.13
1:B:215:ALA:CA	1:B:260:PHE:CE1[4_365]	2.07	0.13
1:B:257:HIS:CG	1:B:450:LYS:C[3_675]	2.07	0.13
1:B:301:THR:OG1	1:B:470:PHE:CB[2_475]	2.07	0.13
1:B:312:ASP:CA	1:B:358:SER:O[3_675]	2.07	0.13
1:B:321:ARG:C	1:B:443:ALA:CB[3_675]	2.07	0.13
1:B:323:VAL:N	1:B:447:ALA:CA[3_675]	2.07	0.13
1:B:326:ARG:NH1	1:B:451:GLU:OE2[3_675]	2.07	0.13
1:B:335:LEU:CD2	1:B:373:ASN:ND2[3_675]	2.07	0.13
1:A:88:TRP:C	1:A:163:GLY:O[8_664]	2.08	0.12
1:A:100:TYR:CG	1:A:201:TYR:CA[8_664]	2.08	0.12
1:A:102:LYS:CE	1:A:452:VAL:N[4_465]	2.08	0.12
1:A:106:ARG:NE	1:A:195:MET:O[8_664]	2.08	0.12
1:A:106:ARG:CZ	1:A:454:ASP:OD2[4_465]	2.08	0.12
1:A:116:LEU:CD1	1:B:263:VAL:CB[8_664]	2.08	0.12
1:A:119:ARG:CZ	1:B:269:PHE:N[8_664]	2.08	0.12
1:A:120:ILE:CB	1:B:261:ASN:O[8_664]	2.08	0.12
1:A:122:ARG:CA	1:B:177:PHE:CB[5_454]	2.08	0.12
1:A:126:GLN:O	1:B:227:PHE:CD2[5_454]	2.08	0.12
1:A:130:HIS:ND1	1:B:229:ILE:CB[5_454]	2.08	0.12
1:A:133:ARG:NH1	1:B:227:PHE:O[5_454]	2.08	0.12
1:A:133:ARG:O	1:B:451:GLU:CB[5_454]	2.08	0.12
1:A:139:SER:O	1:B:454:ASP:OD1[5_454]	2.08	0.12
1:A:140:HIS:O	1:A:279:SER:N[8_664]	2.08	0.12
1:A:141:ARG:NH1	1:A:283:ILE:N[8_664]	2.08	0.12
1:A:142:ASP:O	1:B:210:GLN:O[5_454]	2.08	0.12
1:A:142:ASP:C	1:B:278:ILE:CD1[8_664]	2.08	0.12
1:A:142:ASP:CB	1:B:213:SER:CB[5_454]	2.08	0.12
1:A:143:MET:O	1:B:214:TYR:CA[5_454]	2.08	0.12
1:A:145:GLN:O	1:B:273:ASP:OD1[8_664]	2.08	0.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:148:ASP:CG	1:B:165:SER:OG[5_454]	2.08	0.12
1:A:150:TYR:O	1:B:196:THR:OG1[5_454]	2.08	0.12
1:A:152:ASN:N	1:B:199:GLU:OE1[5_454]	2.08	0.12
1:A:154:LYS:C	1:B:198:ASP:OD1[5_454]	2.08	0.12
1:A:156:PHE:CD2	1:B:237:ASP:N[5_454]	2.08	0.12
1:A:159:TYR:CA	1:A:265:GLY:N[8_664]	2.08	0.12
1:A:176:PRO:CB	1:B:458:LYS:CD[5_454]	2.08	0.12
1:A:179:PHE:CD1	1:B:459:GLU:N[5_454]	2.08	0.12
1:A:188:ASN:N	1:B:235:PHE:CE2[5_454]	2.08	0.12
1:A:203:TRP:C	1:A:338:THR:CG2[8_664]	2.08	0.12
1:A:204:LYS:CB	1:A:446:GLN:CB[6_574]	2.08	0.12
1:A:205:ASP:CG	1:A:383:THR:CG2[5_554]	2.08	0.12
1:A:206:LEU:CA	1:A:444:GLU:O[6_574]	2.08	0.12
1:A:212:TYR:CA	1:A:452:VAL:CG2[6_574]	2.08	0.12
1:A:213:SER:CB	1:A:220:LYS:CA[6_574]	2.08	0.12
1:A:214:TYR:CD1	1:A:221:ASP:CB[6_574]	2.08	0.12
1:A:214:TYR:N	1:A:221:ASP:N[6_574]	2.08	0.12
1:A:214:TYR:CG	1:A:221:ASP:OD2[6_574]	2.08	0.12
1:A:216:VAL:CA	1:A:216:VAL:CG1[6_574]	2.08	0.12
1:A:230:ASN:ND2	1:B:299:ASP:CG[6_574]	2.08	0.12
1:A:231:LYS:CE	1:B:293:PHE:N[5_454]	2.08	0.12
1:A:251:VAL:CG2	1:A:300:ARG:N[5_454]	2.08	0.12
1:A:260:PHE:C	1:A:306:LEU:CB[8_664]	2.08	0.12
1:A:261:ASN:OD1	1:B:197:ASP:CG[3_675]	2.08	0.12
1:A:263:VAL:O	1:A:307:ILE:O[8_664]	2.08	0.12
1:A:263:VAL:CG1	1:A:333:ALA:O[8_664]	2.08	0.12
1:A:267:PHE:CE1	1:A:317:PHE:CE2[8_664]	2.08	0.12
1:A:268:GLY:O	1:A:308:PRO:CG[8_664]	2.08	0.12
1:A:271:ASP:N	1:B:461:MET:CB[3_675]	2.08	0.12
1:A:273:ASP:OD2	1:B:458:LYS:CA[3_675]	2.08	0.12
1:A:274:CYS:C	1:B:220:LYS:CD[3_675]	2.08	0.12
1:A:278:ILE:O	1:A:473:HIS:CD2[5_454]	2.08	0.12
1:A:282:ALA:C	1:A:298:ARG:O[5_454]	2.08	0.12
1:A:292:SER:CA	1:A:292:SER:C[5_454]	2.08	0.12
1:A:306:LEU:N	1:B:212:TYR:CD1[5_454]	2.08	0.12
1:A:330:PRO:C	4:B:812:GOL:C1[5_454]	2.08	0.12
1:A:336:HIS:N	6:A:910:HOH:O[3_675]	2.08	0.12
1:A:359:ILE:CG2	1:A:377:PHE:CG[3_665]	2.08	0.12
1:A:365:ALA:C	1:A:402:TYR:CD2[3_665]	2.08	0.12
1:A:366:LYS:N	1:A:402:TYR:CD1[3_665]	2.08	0.12
1:A:373:ASN:O	1:A:376:ALA:CB[4_465]	2.08	0.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:384:ILE:CG2	1:A:440:PRO:CG[2_575]	2.08	0.12
1:A:388:ARG:NH1	1:A:416:ILE:CA[4_465]	2.08	0.12
1:A:392:GLY:CA	1:A:406:PHE:O[4_465]	2.08	0.12
1:A:395:ASP:O	1:A:442:ILE:CA[4_465]	2.08	0.12
1:A:396:VAL:O	1:A:442:ILE:CG1[4_465]	2.08	0.12
1:A:396:VAL:N	1:A:441:LEU:CA[4_465]	2.08	0.12
1:A:403:LEU:CD1	1:A:436:GLU:CG[4_465]	2.08	0.12
1:A:412:LYS:CG	1:A:425:MET:N[3_665]	2.08	0.12
1:A:416:ILE:CD1	1:A:425:MET:N[3_665]	2.08	0.12
1:A:430:LEU:CD1	1:A:437:VAL:N[4_465]	2.08	0.12
1:A:431:LYS:CD	1:A:435:ILE:CD1[2_575]	2.08	0.12
1:A:467:SER:CB	1:B:246:GLY:CA[5_454]	2.08	0.12
1:B:104:ILE:CG2	1:B:403:LEU:CD2[3_675]	2.08	0.12
1:B:106:ARG:CB	1:B:405:PHE:CD1[3_675]	2.08	0.12
1:B:108:GLY:N	1:B:406:PHE:CG[3_675]	2.08	0.12
1:B:140:HIS:CA	1:B:435:ILE:CD1[3_675]	2.08	0.12
1:B:159:TYR:OH	6:B:847:HOH:O[3_675]	2.08	0.12
1:B:162:ARG:NE	1:B:268:GLY:O[4_365]	2.08	0.12
1:B:169:MET:CE	1:B:267:PHE:N[4_365]	2.08	0.12
1:B:218:ASN:N	1:B:260:PHE:CD1[4_365]	2.08	0.12
1:B:221:ASP:N	1:B:262:GLN:CA[4_365]	2.08	0.12
1:B:257:HIS:N	1:B:450:LYS:O[3_675]	2.08	0.12
1:B:311:ILE:O	1:B:359:ILE:CB[3_675]	2.08	0.12
1:B:327:ILE:O	1:B:469:ASP:OD1[2_475]	2.08	0.12
1:B:334:LEU:CD2	1:B:368:ILE:CG2[3_675]	2.08	0.12
1:B:378:SER:CB	6:B:872:HOH:O[4_365]	2.08	0.12
1:A:89:THR:CA	1:A:164:PRO:CB[8_664]	2.09	0.11
1:A:90:VAL:CA	1:A:449:ARG:NH1[4_465]	2.09	0.11
1:A:96:LYS:O	1:A:445:HIS:CA[4_465]	2.09	0.11
1:A:103:LEU:C	1:A:198:ASP:OD2[8_664]	2.09	0.11
1:A:110:SER:CA	1:A:470:PHE:C[3_675]	2.09	0.11
1:A:118:ASN:OD1	1:B:445:HIS:CD2[5_454]	2.09	0.11
1:A:120:ILE:CD1	1:B:219:ALA:O[5_454]	2.09	0.11
1:A:128:PRO:CD	1:B:222:ILE:O[5_454]	2.09	0.11
1:A:135:GLY:C	1:B:453:THR:OG1[5_454]	2.09	0.11
1:A:141:ARG:NE	1:A:472:HIS:ND1[3_675]	2.09	0.11
1:A:142:ASP:CG	1:A:255:GLN:O[8_664]	2.09	0.11
1:A:142:ASP:C	1:B:275:ILE:CA[8_664]	2.09	0.11
1:A:144:ASN:N	1:B:278:ILE:CB[8_664]	2.09	0.11
1:A:144:ASN:C	1:B:273:ASP:CB[8_664]	2.09	0.11
1:A:145:GLN:CG	1:B:274:CYS:CA[8_664]	2.09	0.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:146:VAL:C	1:B:270:THR:CA[8_664]	2.09	0.11
1:A:146:VAL:C	1:B:164:PRO:CD[5_454]	2.09	0.11
1:A:148:ASP:N	1:B:270:THR:N[8_664]	2.09	0.11
1:A:148:ASP:CB	6:B:867:HOH:O[8_664]	2.09	0.11
1:A:150:TYR:CE1	1:B:194:GLN:CA[5_454]	2.09	0.11
1:A:150:TYR:CB	1:B:195:MET:C[5_454]	2.09	0.11
1:A:151:GLU:CA	5:B:817:TRP:CB[5_454]	2.09	0.11
1:A:155:PRO:CB	1:B:198:ASP:CG[5_454]	2.09	0.11
1:A:156:PHE:CE2	1:B:271:ASP:OD1[8_664]	2.09	0.11
1:A:179:PHE:CZ	1:A:270:THR:O[8_664]	2.09	0.11
1:A:182:TRP:CB	1:B:464:ARG:CZ[5_454]	2.09	0.11
1:A:182:TRP:CE3	1:B:460:PHE:CA[5_454]	2.09	0.11
1:A:186:VAL:CB	1:B:234:ILE:CA[5_454]	2.09	0.11
1:A:228:ASP:OD2	1:B:293:PHE:C[5_454]	2.09	0.11
1:A:236:SER:CA	1:A:454:ASP:OD1[6_574]	2.09	0.11
1:A:238:LEU:CA	1:A:465:LYS:N[5_454]	2.09	0.11
1:A:247:PHE:CD1	1:A:294:PRO:CG[5_454]	2.09	0.11
1:A:251:VAL:CB	1:A:300:ARG:CA[5_454]	2.09	0.11
1:A:252:VAL:N	1:A:300:ARG:CB[5_454]	2.09	0.11
1:A:259:THR:O	1:B:212:TYR:CG[3_675]	2.09	0.11
1:A:261:ASN:N	1:A:305:CYS:C[8_664]	2.09	0.11
1:A:264:LYS:CA	1:B:212:TYR:OH[3_675]	2.09	0.11
1:A:265:GLY:N	1:A:306:LEU:O[8_664]	2.09	0.11
1:A:273:ASP:O	1:B:457:VAL:CG1[3_675]	2.09	0.11
1:A:279:SER:CA	1:A:472:HIS:C[5_454]	2.09	0.11
1:A:330:PRO:CB	1:B:208:LEU:N[5_454]	2.09	0.11
1:A:340:PHE:O	1:A:364:THR:CB[4_465]	2.09	0.11
1:A:340:PHE:CA	6:A:854:HOH:O[4_465]	2.09	0.11
1:A:341:PRO:CB	1:A:364:THR:N[4_465]	2.09	0.11
1:A:341:PRO:O	1:A:364:THR:C[4_465]	2.09	0.11
1:A:347:GLN:CG	1:A:361:LEU:CA[4_465]	2.09	0.11
1:A:372:VAL:N	1:A:376:ALA:CA[3_665]	2.09	0.11
1:A:378:SER:OG	1:A:434:LEU:CD1[4_465]	2.09	0.11
1:A:394:CYS:O	1:A:441:LEU:CA[4_465]	2.09	0.11
1:A:397:ASP:CG	1:A:434:LEU:O[4_465]	2.09	0.11
1:A:400:PHE:CD2	1:A:440:PRO:CB[4_465]	2.09	0.11
1:A:409:ASP:CB	1:A:422:SER:N[3_665]	2.09	0.11
1:A:421:THR:CG2	6:A:858:HOH:O[4_465]	2.09	0.11
1:A:444:GLU:C	6:A:855:HOH:O[3_665]	2.09	0.11
1:A:455:GLU:CB	1:A:464:ARG:N[2_475]	2.09	0.11
1:B:267:PHE:CD1	6:A:862:HOH:O[8_664]	2.09	0.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:256:LYS:NZ	6:A:907:HOH:O[8_664]	2.09	0.11
1:B:103:LEU:CB	1:B:402:TYR:CG[3_675]	2.09	0.11
1:B:106:ARG:NH2	1:B:341:PRO:CD[3_675]	2.09	0.11
1:B:110:SER:OG	1:B:436:GLU:CA[3_675]	2.09	0.11
1:B:110:SER:C	1:B:433:ALA:O[3_675]	2.09	0.11
1:B:116:LEU:CD1	1:B:432:LYS:CE[3_675]	2.09	0.11
1:B:167:GLU:CG	1:B:276:GLY:O[4_365]	2.09	0.11
1:B:170:HIS:C	1:B:315:PRO:CB[4_365]	2.09	0.11
1:B:197:ASP:N	1:B:272:SER:OG[4_365]	2.09	0.11
1:B:221:ASP:CG	1:B:263:VAL:CA[4_365]	2.09	0.11
1:B:308:PRO:CB	1:B:370:THR:CG2[3_675]	2.09	0.11
1:B:316:TYR:CE1	1:B:360:PHE:CD1[3_675]	2.09	0.11
1:B:322:ASP:CB	1:B:445:HIS:CA[3_675]	2.09	0.11
1:B:326:ARG:NE	1:B:448:ARG:CA[3_675]	2.09	0.11
1:B:339:PHE:CB	1:B:344:GLN:OE1[3_675]	2.09	0.11
1:A:94:SER:CA	1:A:445:HIS:NE2[4_465]	2.10	0.10
1:A:94:SER:O	1:A:361:LEU:CD1[4_465]	2.10	0.10
1:A:94:SER:OG	1:A:210:GLN:CD[8_664]	2.10	0.10
1:A:96:LYS:O	1:A:445:HIS:N[4_465]	2.10	0.10
1:A:111:LYS:CG	1:B:256:LYS:N[8_664]	2.10	0.10
1:A:112:ILE:CA	1:B:449:ARG:NH1[5_454]	2.10	0.10
1:A:113:ASP:OD1	1:B:449:ARG:CD[5_454]	2.10	0.10
1:A:115:GLU:CD	1:B:361:LEU:C[5_454]	2.10	0.10
1:A:115:GLU:OE1	1:B:316:TYR:C[8_664]	2.10	0.10
1:A:122:ARG:CB	1:B:177:PHE:CG[5_454]	2.10	0.10
1:A:124:THR:CA	1:B:193:ILE:CG1[5_454]	2.10	0.10
1:A:125:GLY:O	1:B:191:LEU:CD2[5_454]	2.10	0.10
1:A:128:PRO:CB	1:B:223:ILE:C[5_454]	2.10	0.10
1:A:130:HIS:CG	1:A:390:PHE:CB[3_665]	2.10	0.10
1:A:131:PHE:CE2	1:B:459:GLU:CB[5_454]	2.10	0.10
1:A:131:PHE:O	1:B:456:ILE:CG2[5_454]	2.10	0.10
1:A:136:ILE:O	1:A:277:LYS:CE[8_664]	2.10	0.10
1:A:137:PHE:CB	1:B:454:ASP:CA[5_454]	2.10	0.10
1:A:137:PHE:CB	1:B:457:VAL:CG2[5_454]	2.10	0.10
1:A:137:PHE:N	1:B:453:THR:CA[5_454]	2.10	0.10
1:A:140:HIS:C	1:A:473:HIS:ND1[3_675]	2.10	0.10
1:A:145:GLN:OE1	1:B:214:TYR:CD2[5_454]	2.10	0.10
1:A:146:VAL:CG2	1:B:212:TYR:CA[5_454]	2.10	0.10
1:A:149:ALA:CB	1:B:272:SER:OG[8_664]	2.10	0.10
1:A:153:LYS:CG	1:B:316:TYR:CZ[5_454]	2.10	0.10
1:A:156:PHE:CE1	1:B:236:SER:N[5_454]	2.10	0.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:157:TYR:O	1:B:239:ASP:CA[5_454]	2.10	0.10
1:A:157:TYR:CD1	1:B:238:LEU:O[5_454]	2.10	0.10
1:A:180:THR:O	1:B:462:THR:C[5_454]	2.10	0.10
1:A:195:MET:CG	6:A:883:HOH:O[6_574]	2.10	0.10
1:A:208:LEU:N	1:A:448:ARG:C[6_574]	2.10	0.10
1:A:210:GLN:O	1:A:220:LYS:C[6_574]	2.10	0.10
1:A:210:GLN:N	1:A:224:ALA:N[6_574]	2.10	0.10
1:A:217:GLU:CA	1:A:217:GLU:C[6_574]	2.10	0.10
1:A:235:PHE:C	1:A:454:ASP:CB[6_574]	2.10	0.10
1:A:242:GLY:N	1:A:466:LEU:CG[5_454]	2.10	0.10
1:A:245:SER:CA	1:A:293:PHE:CE2[5_454]	2.10	0.10
1:A:248:TYR:CE1	1:A:303:ILE:CD1[5_454]	2.10	0.10
1:A:249:LYS:C	1:A:290:SER:CA[5_454]	2.10	0.10
1:A:252:VAL:CG1	1:A:303:ILE:CA[5_454]	2.10	0.10
1:A:252:VAL:C	1:A:302:ASP:CG[5_454]	2.10	0.10
1:A:252:VAL:O	1:A:302:ASP:N[5_454]	2.10	0.10
1:A:255:GLN:N	1:A:321:ARG:NH2[8_664]	2.10	0.10
1:A:259:THR:N	1:B:209:ASP:O[3_675]	2.10	0.10
1:A:259:THR:O	1:A:332:PRO:C[8_664]	2.10	0.10
1:A:260:PHE:O	1:A:306:LEU:CD1[8_664]	2.10	0.10
1:A:261:ASN:OD1	1:A:304:GLN:O[8_664]	2.10	0.10
1:A:262:GLN:CA	1:A:305:CYS:CB[8_664]	2.10	0.10
1:A:263:VAL:CA	1:A:307:ILE:N[8_664]	2.10	0.10
1:A:263:VAL:C	1:A:475:HIS:CD2[5_454]	2.10	0.10
1:A:277:LYS:CB	1:B:454:ASP:CB[3_675]	2.10	0.10
1:A:279:SER:CA	1:A:473:HIS:N[5_454]	2.10	0.10
1:A:284:GLN:CD	1:A:315:PRO:CA[8_664]	2.10	0.10
1:A:303:ILE:C	1:B:238:LEU:CD2[5_454]	2.10	0.10
1:A:307:ILE:CA	1:A:475:HIS:CD2[3_675]	2.10	0.10
1:A:321:ARG:NE	1:A:472:HIS:ND1[3_675]	2.10	0.10
1:A:340:PHE:CE2	1:A:366:LYS:CB[4_465]	2.10	0.10
1:A:344:GLN:CB	1:A:358:SER:O[4_465]	2.10	0.10
1:A:345:GLY:O	1:A:363:ASP:CB[4_465]	2.10	0.10
1:A:348:THR:CG2	1:A:352:ALA:CA[8_664]	2.10	0.10
1:A:384:ILE:C	1:A:400:PHE:CE2[4_465]	2.10	0.10
1:A:387:HIS:NE2	1:A:403:LEU:CB[4_465]	2.10	0.10
1:A:394:CYS:O	1:A:440:PRO:C[4_465]	2.10	0.10
1:A:397:ASP:C	1:A:439:GLN:N[4_465]	2.10	0.10
1:A:397:ASP:OD1	1:A:438:LEU:CB[4_465]	2.10	0.10
1:A:397:ASP:N	1:A:438:LEU:CA[4_465]	2.10	0.10
1:A:400:PHE:O	4:A:814:GOL:C3[3_665]	2.10	0.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:416:ILE:CD1	1:A:436:GLU:CD[4_465]	2.10	0.10
1:A:427:THR:CA	1:A:434:LEU:CB[4_465]	2.10	0.10
1:A:428:GLY:CA	1:A:430:LEU:CA[4_465]	2.10	0.10
1:A:428:GLY:CA	6:A:844:HOH:O[3_665]	2.10	0.10
1:A:428:GLY:C	1:A:432:LYS:O[2_575]	2.10	0.10
1:A:429:GLU:C	1:A:432:LYS:CG[2_575]	2.10	0.10
1:A:430:LEU:CG	1:A:432:LYS:O[4_465]	2.10	0.10
1:A:430:LEU:O	1:A:432:LYS:CG[4_465]	2.10	0.10
1:A:434:LEU:O	6:A:892:HOH:O[2_575]	2.10	0.10
1:A:441:LEU:O	6:A:855:HOH:O[3_665]	2.10	0.10
1:A:455:GLU:OE1	1:A:463:PRO:CA[2_475]	2.10	0.10
1:A:458:LYS:NZ	1:A:462:THR:OG1[6_574]	2.10	0.10
1:B:94:SER:N	1:B:94:SER:C[3_675]	2.10	0.10
1:B:95:ALA:C	1:B:97:GLY:O[4_365]	2.10	0.10
1:B:99:ASP:C	1:B:401:MET:SD[3_675]	2.10	0.10
1:B:106:ARG:O	1:B:406:PHE:CE1[3_675]	2.10	0.10
1:B:113:ASP:N	1:B:429:GLU:O[3_675]	2.10	0.10
1:B:137:PHE:CE1	1:B:374:LYS:CD[3_675]	2.10	0.10
1:B:137:PHE:CZ	1:B:374:LYS:CD[3_675]	2.10	0.10
1:B:169:MET:N	1:B:267:PHE:CE2[4_365]	2.10	0.10
1:B:169:MET:CG	1:B:267:PHE:CG[4_365]	2.10	0.10
1:B:219:ALA:CA	1:B:260:PHE:CA[4_365]	2.10	0.10
1:B:219:ALA:CB	1:B:260:PHE:CG[4_365]	2.10	0.10
1:B:221:ASP:CG	1:B:263:VAL:N[4_365]	2.10	0.10
1:B:222:ILE:N	1:B:262:GLN:C[4_365]	2.10	0.10
1:B:307:ILE:O	1:B:367:GLN:C[3_675]	2.10	0.10
1:B:311:ILE:C	1:B:359:ILE:CG1[3_675]	2.10	0.10
1:B:329:TYR:CB	1:B:471:GLN:CA[2_475]	2.10	0.10
1:B:386:GLU:OE2	1:B:417:ARG:NH2[4_365]	2.10	0.10
1:A:99:ASP:OD1	1:A:208:LEU:CA[8_664]	2.11	0.09
1:A:100:TYR:CD2	1:A:199:GLU:O[8_664]	2.11	0.09
1:A:101:ASP:N	1:A:201:TYR:CB[8_664]	2.11	0.09
1:A:103:LEU:CD2	1:A:199:GLU:CB[8_664]	2.11	0.09
1:A:106:ARG:NH1	1:A:237:ASP:N[8_664]	2.11	0.09
1:A:112:ILE:CD1	1:B:220:LYS:NZ[5_454]	2.11	0.09
1:A:118:ASN:O	1:B:265:GLY:C[8_664]	2.11	0.09
1:A:120:ILE:O	1:B:222:ILE:CG1[5_454]	2.11	0.09
1:A:129:HIS:N	6:B:910:HOH:O[8_664]	2.11	0.09
1:A:130:HIS:C	1:A:390:PHE:CD2[3_665]	2.11	0.09
1:A:131:PHE:CD2	6:B:857:HOH:O[5_454]	2.11	0.09
1:A:131:PHE:CD2	1:B:455:GLU:O[5_454]	2.11	0.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:132:LEU:O	1:B:259:THR:CG2[8_664]	2.11	0.09
1:A:137:PHE:CE1	1:B:454:ASP:O[5_454]	2.11	0.09
1:A:138:PHE:CE1	1:B:454:ASP:OD2[5_454]	2.11	0.09
1:A:138:PHE:CZ	1:A:202:LEU:CG[8_664]	2.11	0.09
1:A:140:HIS:NE2	1:B:279:SER:CA[8_664]	2.11	0.09
1:A:140:HIS:N	1:A:275:ILE:C[8_664]	2.11	0.09
1:A:143:MET:CG	1:B:260:PHE:CE1[8_664]	2.11	0.09
1:A:143:MET:N	1:B:278:ILE:CG1[8_664]	2.11	0.09
1:A:143:MET:CG	1:B:216:VAL:CA[5_454]	2.11	0.09
1:A:147:LEU:O	1:B:270:THR:CB[8_664]	2.11	0.09
1:A:147:LEU:CB	1:B:218:ASN:OD1[5_454]	2.11	0.09
1:A:147:LEU:CA	1:B:269:PHE:O[8_664]	2.11	0.09
1:A:151:GLU:CD	1:B:162:ARG:CD[5_454]	2.11	0.09
1:A:156:PHE:C	1:B:237:ASP:CA[5_454]	2.11	0.09
1:A:159:TYR:CB	1:A:265:GLY:O[8_664]	2.11	0.09
1:A:166:SER:CB	1:A:347:GLN:CA[8_664]	2.11	0.09
1:A:191:LEU:CA	1:B:243:MET:N[5_454]	2.11	0.09
1:A:197:ASP:OD2	6:A:895:HOH:O[5_454]	2.11	0.09
1:A:203:TRP:CZ3	1:A:311:ILE:CG1[8_664]	2.11	0.09
1:A:204:LYS:NZ	1:A:362:THR:O[6_574]	2.11	0.09
1:A:205:ASP:OD1	1:A:439:GLN:O[6_574]	2.11	0.09
1:A:207:THR:N	1:A:444:GLU:O[6_574]	2.11	0.09
1:A:208:LEU:N	1:A:448:ARG:O[6_574]	2.11	0.09
1:A:210:GLN:OE1	1:A:445:HIS:CG[6_574]	2.11	0.09
1:A:211:ALA:N	1:A:449:ARG:CG[6_574]	2.11	0.09
1:A:212:TYR:CE2	1:A:223:ILE:CD1[6_574]	2.11	0.09
1:A:214:TYR:OH	1:A:361:LEU:CD1[6_574]	2.11	0.09
1:A:228:ASP:CB	1:B:294:PRO:CG[5_454]	2.11	0.09
1:A:251:VAL:O	1:A:301:THR:N[5_454]	2.11	0.09
1:A:256:LYS:N	1:A:302:ASP:OD1[5_454]	2.11	0.09
1:A:262:GLN:C	1:A:307:ILE:CG1[8_664]	2.11	0.09
1:A:264:LYS:N	1:A:475:HIS:CD2[5_454]	2.11	0.09
1:A:270:THR:C	1:B:461:MET:SD[3_675]	2.11	0.09
1:A:273:ASP:N	1:B:457:VAL:CG2[3_675]	2.11	0.09
1:A:280:PHE:CB	1:A:336:HIS:NE2[8_664]	2.11	0.09
1:A:282:ALA:O	1:A:299:ASP:C[5_454]	2.11	0.09
1:A:314:ASP:N	1:A:316:TYR:CD2[8_664]	2.11	0.09
1:A:326:ARG:NH1	1:A:330:PRO:CA[8_664]	2.11	0.09
1:A:334:LEU:CG	1:A:474:HIS:CA[3_675]	2.11	0.09
1:A:350:MET:SD	6:A:898:HOH:O[4_465]	2.11	0.09
1:A:381:ARG:CB	1:A:404:THR:O[4_465]	2.11	0.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:395:ASP:N	1:A:441:LEU:N[4_465]	2.11	0.09
1:A:396:VAL:O	1:A:442:ILE:CD1[4_465]	2.11	0.09
1:A:397:ASP:CA	1:A:438:LEU:O[4_465]	2.11	0.09
1:A:425:MET:C	1:A:436:GLU:CD[2_575]	2.11	0.09
1:A:425:MET:CE	6:A:845:HOH:O[3_665]	2.11	0.09
1:A:426:LEU:O	1:A:432:LYS:CG[2_575]	2.11	0.09
1:A:426:LEU:N	1:A:436:GLU:CG[2_575]	2.11	0.09
1:A:427:THR:CB	1:A:435:ILE:CG2[2_575]	2.11	0.09
1:A:428:GLY:N	1:A:432:LYS:C[2_575]	2.11	0.09
1:A:468:PHE:CG	1:B:247:PHE:C[5_454]	2.11	0.09
1:B:276:GLY:N	6:A:890:HOH:O[5_454]	2.11	0.09
1:B:101:ASP:OD1	1:B:430:LEU:CD1[3_675]	2.11	0.09
1:B:106:ARG:CZ	1:B:340:PHE:CD1[3_675]	2.11	0.09
1:B:107:PHE:N	1:B:406:PHE:CE2[3_675]	2.11	0.09
1:B:109:SER:CA	1:B:438:LEU:N[3_675]	2.11	0.09
1:B:110:SER:O	1:B:434:LEU:CA[3_675]	2.11	0.09
1:B:114:LYS:CG	1:B:429:GLU:OE1[3_675]	2.11	0.09
1:B:137:PHE:CD2	1:B:373:ASN:CB[3_675]	2.11	0.09
1:B:139:SER:OG	1:B:434:LEU:CG[3_675]	2.11	0.09
1:B:164:PRO:CB	1:B:273:ASP:OD2[4_365]	2.11	0.09
1:B:166:SER:O	1:B:269:PHE:CG[4_365]	2.11	0.09
1:B:167:GLU:CG	1:B:279:SER:N[4_365]	2.11	0.09
1:B:179:PHE:N	1:B:374:LYS:NZ[3_675]	2.11	0.09
1:B:195:MET:CG	1:B:271:ASP:OD1[4_365]	2.11	0.09
1:B:195:MET:CA	1:B:271:ASP:OD1[4_365]	2.11	0.09
1:B:203:TRP:NE1	6:B:878:HOH:O[3_675]	2.11	0.09
1:B:213:SER:O	1:B:278:ILE:CB[4_365]	2.11	0.09
1:B:215:ALA:C	1:B:260:PHE:CD1[4_365]	2.11	0.09
1:B:217:GLU:CB	1:B:278:ILE:C[4_365]	2.11	0.09
1:B:218:ASN:OD1	1:B:269:PHE:CD2[4_365]	2.11	0.09
1:B:219:ALA:N	1:B:260:PHE:CG[4_365]	2.11	0.09
1:B:313:GLN:O	1:B:363:ASP:CG[3_675]	2.11	0.09
1:B:317:PHE:N	1:B:363:ASP:N[3_675]	2.11	0.09
1:B:334:LEU:CD2	1:B:368:ILE:CA[3_675]	2.11	0.09
1:B:334:LEU:CD1	1:B:368:ILE:CD1[3_675]	2.11	0.09
1:B:339:PHE:CD2	1:B:343:LEU:CA[3_675]	2.11	0.09
1:A:95:ALA:N	1:A:361:LEU:CD2[4_465]	2.12	0.08
1:A:96:LYS:N	1:A:445:HIS:CB[4_465]	2.12	0.08
1:A:99:ASP:N	1:A:449:ARG:N[4_465]	2.12	0.08
1:A:100:TYR:C	1:A:201:TYR:CG[8_664]	2.12	0.08
1:A:102:LYS:CB	1:A:451:GLU:N[4_465]	2.12	0.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:102:LYS:CG	1:A:453:THR:N[4_465]	2.12	0.08
1:A:103:LEU:CG	1:A:198:ASP:C[8_664]	2.12	0.08
1:A:109:SER:O	1:A:470:PHE:CB[3_675]	2.12	0.08
1:A:109:SER:N	1:A:298:ARG:CG[3_675]	2.12	0.08
1:A:115:GLU:CB	1:B:267:PHE:CE1[8_664]	2.12	0.08
1:A:117:ILE:CG1	1:B:262:GLN:CD[8_664]	2.12	0.08
1:A:122:ARG:O	1:B:177:PHE:CZ[5_454]	2.12	0.08
1:A:138:PHE:CD1	1:B:454:ASP:OD2[5_454]	2.12	0.08
1:A:140:HIS:N	1:A:276:GLY:C[8_664]	2.12	0.08
1:A:141:ARG:CD	1:A:472:HIS:CG[3_675]	2.12	0.08
1:A:142:ASP:N	1:B:276:GLY:N[8_664]	2.12	0.08
1:A:144:ASN:O	1:B:273:ASP:CB[8_664]	2.12	0.08
1:A:146:VAL:CA	1:B:211:ALA:O[5_454]	2.12	0.08
1:A:148:ASP:N	1:B:165:SER:N[5_454]	2.12	0.08
1:A:156:PHE:CZ	1:B:271:ASP:OD1[8_664]	2.12	0.08
1:A:158:LEU:CA	1:B:239:ASP:C[5_454]	2.12	0.08
1:A:159:TYR:C	1:A:265:GLY:O[8_664]	2.12	0.08
1:A:176:PRO:CG	1:B:458:LYS:NZ[5_454]	2.12	0.08
1:A:176:PRO:CA	1:B:458:LYS:CD[5_454]	2.12	0.08
1:A:180:THR:O	1:B:462:THR:CA[5_454]	2.12	0.08
1:A:182:TRP:CG	1:B:232:THR:O[5_454]	2.12	0.08
1:A:182:TRP:CA	1:B:460:PHE:O[5_454]	2.12	0.08
1:A:182:TRP:CB	1:B:464:ARG:NH2[5_454]	2.12	0.08
1:A:183:LEU:C	6:A:861:HOH:O[8_664]	2.12	0.08
1:A:185:ASP:CB	1:B:233:PHE:CG[5_454]	2.12	0.08
1:A:186:VAL:C	1:B:233:PHE:O[5_454]	2.12	0.08
1:A:188:ASN:CA	1:B:235:PHE:CE1[5_454]	2.12	0.08
1:A:212:TYR:OH	1:A:458:LYS:N[6_574]	2.12	0.08
1:A:213:SER:CB	1:A:220:LYS:N[6_574]	2.12	0.08
1:A:213:SER:CA	1:A:220:LYS:CB[6_574]	2.12	0.08
1:A:213:SER:O	1:A:217:GLU:C[6_574]	2.12	0.08
1:A:236:SER:CB	6:A:895:HOH:O[5_454]	2.12	0.08
1:A:248:TYR:CD2	1:A:297:PHE:CD2[5_454]	2.12	0.08
1:A:252:VAL:CB	1:A:303:ILE:CB[5_454]	2.12	0.08
1:A:254:ILE:O	6:A:830:HOH:O[5_454]	2.12	0.08
1:A:261:ASN:CG	1:B:197:ASP:CG[3_675]	2.12	0.08
1:A:266:ILE:CA	1:A:475:HIS:CG[5_454]	2.12	0.08
1:A:267:PHE:CE2	1:A:313:GLN:O[8_664]	2.12	0.08
1:A:269:PHE:CB	1:A:308:PRO:CB[8_664]	2.12	0.08
1:A:272:SER:O	1:B:457:VAL:CA[3_675]	2.12	0.08
1:A:272:SER:CB	1:B:456:ILE:O[3_675]	2.12	0.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:278:ILE:C	1:A:473:HIS:CE1[5_454]	2.12	0.08
1:A:305:CYS:O	1:B:212:TYR:CG[5_454]	2.12	0.08
1:A:333:ALA:CB	1:B:212:TYR:CB[5_454]	2.12	0.08
1:A:334:LEU:O	1:A:473:HIS:CD2[3_675]	2.12	0.08
1:A:359:ILE:CD1	1:A:370:THR:OG1[4_465]	2.12	0.08
1:A:366:LYS:N	1:A:402:TYR:CD2[3_665]	2.12	0.08
1:A:372:VAL:N	1:A:374:LYS:CA[2_575]	2.12	0.08
1:A:383:THR:C	1:A:404:THR:CG2[4_465]	2.12	0.08
1:A:387:HIS:ND1	1:A:404:THR:N[4_465]	2.12	0.08
1:A:401:MET:C	4:A:814:GOL:O2[3_665]	2.12	0.08
1:A:409:ASP:N	1:A:421:THR:C[3_665]	2.12	0.08
1:A:409:ASP:CG	1:A:422:SER:CA[3_665]	2.12	0.08
1:A:448:ARG:CZ	4:A:813:GOL:C3[6_574]	2.12	0.08
1:A:459:GLU:CA	1:A:459:GLU:CA[2_475]	2.12	0.08
1:A:459:GLU:OE1	1:A:459:GLU:OE2[2_475]	2.12	0.08
1:A:468:PHE:CA	1:B:248:TYR:O[5_454]	2.12	0.08
1:A:468:PHE:CD1	1:B:247:PHE:CA[5_454]	2.12	0.08
2:A:805:CL:CL	6:A:880:HOH:O[8_664]	2.12	0.08
1:B:94:SER:CA	1:B:94:SER:OG[3_675]	2.12	0.08
1:B:97:GLY:N	1:B:347:GLN:NE2[3_675]	2.12	0.08
1:B:106:ARG:CA	1:B:406:PHE:N[3_675]	2.12	0.08
1:B:109:SER:C	1:B:437:VAL:CB[3_675]	2.12	0.08
1:B:110:SER:C	1:B:433:ALA:CA[3_675]	2.12	0.08
1:B:112:ILE:CG1	1:B:432:LYS:N[3_675]	2.12	0.08
1:B:116:LEU:CD2	1:B:432:LYS:CE[3_675]	2.12	0.08
1:B:139:SER:N	1:B:431:LYS:CG[3_675]	2.12	0.08
1:B:140:HIS:N	1:B:435:ILE:CA[3_675]	2.12	0.08
1:B:145:GLN:CA	1:B:152:ASN:CB[2_475]	2.12	0.08
1:B:149:ALA:CA	1:B:154:LYS:NZ[2_475]	2.12	0.08
1:B:164:PRO:CG	1:B:270:THR:OG1[4_365]	2.12	0.08
1:B:167:GLU:CA	1:B:277:LYS:C[4_365]	2.12	0.08
1:B:211:ALA:CB	1:B:272:SER:C[4_365]	2.12	0.08
1:B:258:VAL:CG2	6:B:825:HOH:O[3_675]	2.12	0.08
1:B:266:ILE:CD1	1:B:361:LEU:CD1[3_675]	2.12	0.08
1:B:277:LYS:CA	6:B:835:HOH:O[3_675]	2.12	0.08
1:B:307:ILE:CA	1:B:366:LYS:O[3_675]	2.12	0.08
1:B:308:PRO:CD	1:B:366:LYS:NZ[3_675]	2.12	0.08
1:B:320:THR:N	1:B:446:GLN:OE1[3_675]	2.12	0.08
1:B:326:ARG:NH2	1:B:448:ARG:CG[3_675]	2.12	0.08
1:B:334:LEU:CA	1:B:369:LYS:N[3_675]	2.12	0.08
1:B:349:LYS:CE	1:B:354:ASP:CB[3_675]	2.12	0.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:94:SER:CA	1:A:214:TYR:CZ[8_664]	2.13	0.07
1:A:98:ILE:O	1:A:446:GLN:CA[4_465]	2.13	0.07
1:A:100:TYR:CG	1:A:200:LYS:O[8_664]	2.13	0.07
1:A:101:ASP:CA	1:A:201:TYR:CD2[8_664]	2.13	0.07
1:A:102:LYS:N	1:A:451:GLU:CB[4_465]	2.13	0.07
1:A:106:ARG:CG	1:A:237:ASP:OD2[8_664]	2.13	0.07
1:A:109:SER:C	1:A:470:PHE:CA[3_675]	2.13	0.07
1:A:122:ARG:N	1:B:177:PHE:CB[5_454]	2.13	0.07
1:A:122:ARG:CZ	1:B:266:ILE:N[8_664]	2.13	0.07
1:A:128:PRO:CB	6:B:910:HOH:O[8_664]	2.13	0.07
1:A:128:PRO:CG	1:B:222:ILE:O[5_454]	2.13	0.07
1:A:132:LEU:CG	1:A:272:SER:CA[8_664]	2.13	0.07
1:A:132:LEU:C	1:B:259:THR:CG2[8_664]	2.13	0.07
1:A:133:ARG:CB	1:A:390:PHE:CE2[3_665]	2.13	0.07
1:A:135:GLY:CA	1:B:453:THR:CG2[5_454]	2.13	0.07
1:A:141:ARG:N	1:A:278:ILE:C[8_664]	2.13	0.07
1:A:141:ARG:C	1:B:275:ILE:CG1[8_664]	2.13	0.07
1:A:141:ARG:CZ	1:A:279:SER:O[8_664]	2.13	0.07
1:A:145:GLN:CG	1:B:274:CYS:SG[8_664]	2.13	0.07
1:A:148:ASP:CA	1:B:273:ASP:OD2[8_664]	2.13	0.07
1:A:151:GLU:N	1:B:196:THR:OG1[5_454]	2.13	0.07
1:A:154:LYS:C	1:B:280:PHE:CE1[5_454]	2.13	0.07
1:A:155:PRO:N	1:B:198:ASP:OD2[5_454]	2.13	0.07
1:A:156:PHE:CZ	1:B:271:ASP:CB[8_664]	2.13	0.07
1:A:158:LEU:C	1:B:239:ASP:OD1[5_454]	2.13	0.07
1:A:167:GLU:OE2	1:A:169:MET:CG[6_574]	2.13	0.07
1:A:167:GLU:OE2	1:A:169:MET:CE[6_574]	2.13	0.07
1:A:179:PHE:CE1	1:B:457:VAL:CA[5_454]	2.13	0.07
1:A:182:TRP:CD2	1:B:460:PHE:O[5_454]	2.13	0.07
1:A:183:LEU:CB	1:B:461:MET:O[5_454]	2.13	0.07
1:A:187:PHE:CG	1:B:193:ILE:O[5_454]	2.13	0.07
1:A:188:ASN:OD1	1:B:287:PRO:CB[5_454]	2.13	0.07
1:A:188:ASN:CB	1:B:235:PHE:CZ[5_454]	2.13	0.07
1:A:192:VAL:O	6:B:858:HOH:O[5_454]	2.13	0.07
1:A:199:GLU:CA	1:A:450:LYS:NZ[6_574]	2.13	0.07
1:A:201:TYR:CB	1:A:450:LYS:CB[6_574]	2.13	0.07
1:A:209:ASP:CA	1:A:224:ALA:CA[6_574]	2.13	0.07
1:A:214:TYR:O	1:A:217:GLU:CA[6_574]	2.13	0.07
1:A:231:LYS:N	1:B:244:SER:OG[5_454]	2.13	0.07
1:A:233:PHE:N	1:A:242:GLY:O[5_454]	2.13	0.07
1:A:241:MET:O	1:A:296:ILE:CG2[5_454]	2.13	0.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:241:MET:N	1:A:296:ILE:CG2[5_454]	2.13	0.07
1:A:246:GLY:O	1:A:290:SER:O[5_454]	2.13	0.07
1:A:247:PHE:CG	1:A:294:PRO:CA[5_454]	2.13	0.07
1:A:250:ASN:ND2	1:A:250:ASN:ND2[5_454]	2.13	0.07
1:A:251:VAL:CG1	1:A:300:ARG:N[5_454]	2.13	0.07
1:A:252:VAL:O	1:A:302:ASP:OD1[5_454]	2.13	0.07
1:A:253:LYS:O	1:A:301:THR:CG2[5_454]	2.13	0.07
1:A:254:ILE:N	1:A:301:THR:N[5_454]	2.13	0.07
1:A:258:VAL:C	1:B:209:ASP:N[3_675]	2.13	0.07
1:A:260:PHE:O	1:B:212:TYR:CE2[3_675]	2.13	0.07
1:A:262:GLN:N	1:A:305:CYS:CB[8_664]	2.13	0.07
1:A:263:VAL:CA	1:A:333:ALA:O[8_664]	2.13	0.07
1:A:266:ILE:CG2	1:A:475:HIS:O[5_454]	2.13	0.07
1:A:270:THR:CB	1:B:461:MET:CA[3_675]	2.13	0.07
1:A:275:ILE:CG2	1:B:449:ARG:NH2[3_675]	2.13	0.07
1:A:279:SER:CA	1:A:472:HIS:CA[5_454]	2.13	0.07
1:A:279:SER:N	1:A:473:HIS:CG[5_454]	2.13	0.07
1:A:284:GLN:CB	1:A:318:ARG:NH2[8_664]	2.13	0.07
1:A:306:LEU:C	1:B:239:ASP:OD2[5_454]	2.13	0.07
1:A:326:ARG:CZ	4:B:812:GOL:C1[3_675]	2.13	0.07
1:A:326:ARG:NE	1:A:329:TYR:O[8_664]	2.13	0.07
1:A:334:LEU:C	1:A:473:HIS:CD2[3_675]	2.13	0.07
1:A:373:ASN:O	1:A:376:ALA:N[4_465]	2.13	0.07
1:A:387:HIS:O	1:A:413:LEU:CB[4_465]	2.13	0.07
1:A:388:ARG:NH2	1:A:416:ILE:O[4_465]	2.13	0.07
1:A:388:ARG:O	1:A:410:ASP:C[4_465]	2.13	0.07
1:A:388:ARG:CZ	1:A:416:ILE:C[4_465]	2.13	0.07
1:A:388:ARG:NH1	1:A:413:LEU:O[4_465]	2.13	0.07
1:A:407:LEU:CD2	1:A:421:THR:N[3_665]	2.13	0.07
1:A:428:GLY:CA	1:A:430:LEU:O[4_465]	2.13	0.07
1:B:207:THR:OG1	6:A:835:HOH:O[5_454]	2.13	0.07
1:B:99:ASP:OD1	1:B:401:MET:CG[3_675]	2.13	0.07
1:B:100:TYR:CE1	1:B:398:VAL:CB[3_675]	2.13	0.07
1:B:100:TYR:CG	1:B:398:VAL:N[3_675]	2.13	0.07
1:B:102:LYS:CB	1:B:401:MET:CB[3_675]	2.13	0.07
1:B:106:ARG:C	1:B:406:PHE:CG[3_675]	2.13	0.07
1:B:114:LYS:C	1:B:429:GLU:OE2[3_675]	2.13	0.07
1:B:138:PHE:CA	1:B:431:LYS:CB[3_675]	2.13	0.07
1:B:138:PHE:CB	1:B:431:LYS:CG[3_675]	2.13	0.07
1:B:211:ALA:CA	1:B:272:SER:O[4_365]	2.13	0.07
1:B:214:TYR:CE1	1:B:276:GLY:C[4_365]	2.13	0.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:220:LYS:CG	1:B:260:PHE:N[4_365]	2.13	0.07
1:B:221:ASP:O	1:B:262:GLN:CB[4_365]	2.13	0.07
1:B:221:ASP:OD2	1:B:263:VAL:CA[4_365]	2.13	0.07
1:B:221:ASP:N	1:B:262:GLN:CB[4_365]	2.13	0.07
1:B:257:HIS:CG	1:B:450:LYS:CB[3_675]	2.13	0.07
1:B:297:PHE:CG	6:B:865:HOH:O[2_475]	2.13	0.07
1:B:307:ILE:N	1:B:366:LYS:CG[3_675]	2.13	0.07
1:B:309:CYS:CB	1:B:367:GLN:O[3_675]	2.13	0.07
1:B:309:CYS:SG	1:B:367:GLN:C[3_675]	2.13	0.07
1:B:319:MET:C	1:B:446:GLN:CD[3_675]	2.13	0.07
1:B:321:ARG:CZ	1:B:439:GLN:O[3_675]	2.13	0.07
1:B:322:ASP:N	1:B:444:GLU:N[3_675]	2.13	0.07
1:B:329:TYR:CG	1:B:470:PHE:C[2_475]	2.13	0.07
1:B:339:PHE:CA	1:B:344:GLN:CD[3_675]	2.13	0.07
1:A:93:SER:CA	1:A:214:TYR:CE1[8_664]	2.14	0.06
1:A:93:SER:O	1:A:167:GLU:OE1[8_664]	2.14	0.06
1:A:99:ASP:OD2	1:A:448:ARG:C[4_465]	2.14	0.06
1:A:99:ASP:C	1:A:447:ALA:O[4_465]	2.14	0.06
1:A:106:ARG:NH2	1:A:454:ASP:OD2[4_465]	2.14	0.06
1:A:107:PHE:N	1:A:198:ASP:OD2[8_664]	2.14	0.06
1:A:108:GLY:O	1:A:297:PHE:O[3_675]	2.14	0.06
1:A:109:SER:CA	1:A:470:PHE:C[3_675]	2.14	0.06
1:A:111:LYS:N	1:B:255:GLN:CB[8_664]	2.14	0.06
1:A:111:LYS:C	1:B:255:GLN:CA[8_664]	2.14	0.06
1:A:112:ILE:C	1:B:258:VAL:CB[8_664]	2.14	0.06
1:A:116:LEU:C	1:B:262:GLN:C[8_664]	2.14	0.06
1:A:120:ILE:CG2	1:B:261:ASN:CG[8_664]	2.14	0.06
1:A:122:ARG:CZ	1:B:173:HIS:C[5_454]	2.14	0.06
1:A:124:THR:N	1:B:193:ILE:CG2[5_454]	2.14	0.06
1:A:124:THR:CA	1:B:193:ILE:CB[5_454]	2.14	0.06
1:A:125:GLY:CA	1:B:160:THR:OG1[5_454]	2.14	0.06
1:A:125:GLY:C	1:B:191:LEU:CD2[5_454]	2.14	0.06
1:A:128:PRO:N	1:B:227:PHE:CB[5_454]	2.14	0.06
1:A:130:HIS:CD2	1:A:381:ARG:CZ[3_665]	2.14	0.06
1:A:137:PHE:CE1	6:A:906:HOH:O[8_664]	2.14	0.06
1:A:139:SER:C	1:A:278:ILE:N[8_664]	2.14	0.06
1:A:140:HIS:N	1:A:473:HIS:NE2[3_675]	2.14	0.06
1:A:150:TYR:CD2	1:B:194:GLN:C[5_454]	2.14	0.06
1:A:150:TYR:N	1:B:196:THR:CB[5_454]	2.14	0.06
1:A:153:LYS:N	1:B:199:GLU:OE2[5_454]	2.14	0.06
1:A:157:TYR:CE2	1:A:249:LYS:CE[5_454]	2.14	0.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:179:PHE:CD2	1:A:273:ASP:OD2[8_664]	2.14	0.06
1:A:179:PHE:CE2	1:A:273:ASP:OD2[8_664]	2.14	0.06
1:A:180:THR:O	1:B:463:PRO:CD[5_454]	2.14	0.06
1:A:183:LEU:N	1:B:461:MET:CA[5_454]	2.14	0.06
1:A:187:PHE:N	1:B:193:ILE:O[5_454]	2.14	0.06
1:A:204:LYS:NZ	1:A:446:GLN:NE2[6_574]	2.14	0.06
1:A:208:LEU:CD2	1:A:451:GLU:CA[6_574]	2.14	0.06
1:A:212:TYR:CE2	1:A:457:VAL:CA[6_574]	2.14	0.06
1:A:228:ASP:CA	1:B:295:GLN:CD[5_454]	2.14	0.06
1:A:230:ASN:N	1:B:245:SER:CA[5_454]	2.14	0.06
1:A:240:TYR:CD1	1:A:295:GLN:OE1[5_454]	2.14	0.06
1:A:241:MET:SD	1:A:296:ILE:CA[5_454]	2.14	0.06
1:A:250:ASN:C	1:A:301:THR:CA[5_454]	2.14	0.06
1:A:250:ASN:O	1:A:301:THR:CB[5_454]	2.14	0.06
1:A:251:VAL:CG2	1:A:297:PHE:O[5_454]	2.14	0.06
1:A:258:VAL:C	1:B:209:ASP:CB[3_675]	2.14	0.06
1:A:258:VAL:CG1	1:B:209:ASP:OD1[3_675]	2.14	0.06
1:A:261:ASN:OD1	1:B:238:LEU:N[3_675]	2.14	0.06
1:A:263:VAL:CB	1:A:474:HIS:CA[5_454]	2.14	0.06
1:A:263:VAL:CB	1:B:212:TYR:CE2[3_675]	2.14	0.06
1:A:266:ILE:O	3:A:810:TYM:CE2[8_664]	2.14	0.06
1:A:266:ILE:CG2	1:A:475:HIS:CA[5_454]	2.14	0.06
1:A:277:LYS:CE	1:A:338:THR:N[8_664]	2.14	0.06
1:A:284:GLN:O	1:A:318:ARG:NH2[8_664]	2.14	0.06
1:A:313:GLN:N	6:A:889:HOH:O[8_664]	2.14	0.06
1:A:317:PHE:CB	1:A:474:HIS:CG[3_675]	2.14	0.06
1:A:319:MET:C	1:A:319:MET:C[8_664]	2.14	0.06
1:A:330:PRO:O	4:B:812:GOL:O1[5_454]	2.14	0.06
1:A:331:LYS:N	1:B:208:LEU:N[5_454]	2.14	0.06
1:A:332:PRO:O	1:B:209:ASP:CB[5_454]	2.14	0.06
1:A:343:LEU:CD1	1:A:370:THR:CB[4_465]	2.14	0.06
1:A:344:GLN:C	1:A:359:ILE:C[4_465]	2.14	0.06
1:A:369:LYS:CD	1:A:434:LEU:CG[3_665]	2.14	0.06
1:A:370:THR:C	1:A:374:LYS:N[4_465]	2.14	0.06
1:A:370:THR:CA	1:A:376:ALA:O[2_575]	2.14	0.06
1:A:381:ARG:C	1:A:404:THR:OG1[4_465]	2.14	0.06
1:A:400:PHE:N	1:A:435:ILE:C[4_465]	2.14	0.06
1:A:409:ASP:CA	1:A:422:SER:C[3_665]	2.14	0.06
1:A:426:LEU:CG	1:A:436:GLU:CG[2_575]	2.14	0.06
1:A:428:GLY:O	1:A:431:LYS:CA[4_465]	2.14	0.06
1:A:459:GLU:CB	1:A:459:GLU:CD[2_475]	2.14	0.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:465:LYS:CG	1:B:248:TYR:CE2[5_454]	2.14	0.06
1:A:468:PHE:CD2	1:B:247:PHE:CE2[5_454]	2.14	0.06
1:B:102:LYS:O	1:B:402:TYR:CA[3_675]	2.14	0.06
1:B:103:LEU:CG	1:B:402:TYR:CE2[3_675]	2.14	0.06
1:B:104:ILE:CG1	1:B:434:LEU:CD2[3_675]	2.14	0.06
1:B:107:PHE:CA	1:B:406:PHE:CG[3_675]	2.14	0.06
1:B:111:LYS:N	1:B:433:ALA:CB[3_675]	2.14	0.06
1:B:113:ASP:C	1:B:429:GLU:CD[3_675]	2.14	0.06
1:B:135:GLY:O	1:B:431:LYS:NZ[3_675]	2.14	0.06
1:B:138:PHE:O	1:B:431:LYS:C[3_675]	2.14	0.06
1:B:159:TYR:CE2	1:B:364:THR:CG2[3_675]	2.14	0.06
1:B:165:SER:N	6:B:867:HOH:O[4_365]	2.14	0.06
1:B:214:TYR:CD1	1:B:278:ILE:N[4_365]	2.14	0.06
1:B:277:LYS:CD	6:B:877:HOH:O[3_675]	2.14	0.06
1:B:312:ASP:OD1	1:B:358:SER:N[3_675]	2.14	0.06
1:B:313:GLN:CA	1:B:358:SER:O[3_675]	2.14	0.06
1:B:314:ASP:CG	1:B:359:ILE:CG2[3_675]	2.14	0.06
1:B:317:PHE:CD1	1:B:363:ASP:C[3_675]	2.14	0.06
1:B:317:PHE:CD1	1:B:363:ASP:CG[3_675]	2.14	0.06
1:B:322:ASP:CA	1:B:444:GLU:N[3_675]	2.14	0.06
1:B:322:ASP:CA	1:B:444:GLU:CA[3_675]	2.14	0.06
1:B:338:THR:N	1:B:376:ALA:CA[3_675]	2.14	0.06
1:A:91:GLN:N	1:A:449:ARG:CD[4_465]	2.15	0.05
1:A:91:GLN:CA	1:A:214:TYR:CD2[8_664]	2.15	0.05
1:A:100:TYR:CE1	1:A:204:LYS:C[8_664]	2.15	0.05
1:A:101:ASP:CB	1:A:451:GLU:CD[4_465]	2.15	0.05
1:A:102:LYS:CD	1:A:451:GLU:C[4_465]	2.15	0.05
1:A:103:LEU:CA	1:A:450:LYS:O[4_465]	2.15	0.05
1:A:106:ARG:NH2	1:A:195:MET:N[8_664]	2.15	0.05
1:A:112:ILE:C	1:B:258:VAL:O[8_664]	2.15	0.05
1:A:115:GLU:OE1	1:B:362:THR:CB[5_454]	2.15	0.05
1:A:117:ILE:CG2	1:B:224:ALA:CA[5_454]	2.15	0.05
1:A:119:ARG:CA	1:B:263:VAL:C[8_664]	2.15	0.05
1:A:120:ILE:CG1	1:B:261:ASN:CA[8_664]	2.15	0.05
1:A:130:HIS:O	1:A:390:PHE:CZ[3_665]	2.15	0.05
1:A:131:PHE:CE1	1:B:459:GLU:OE1[5_454]	2.15	0.05
1:A:132:LEU:CB	1:B:259:THR:CG2[8_664]	2.15	0.05
1:A:137:PHE:CE1	1:B:455:GLU:O[5_454]	2.15	0.05
1:A:137:PHE:CD1	1:B:454:ASP:C[5_454]	2.15	0.05
1:A:139:SER:CB	1:A:276:GLY:CA[8_664]	2.15	0.05
1:A:140:HIS:C	1:A:279:SER:OG[8_664]	2.15	0.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:145:GLN:C	1:B:273:ASP:C[8_664]	2.15	0.05
1:A:145:GLN:CA	1:B:164:PRO:O[5_454]	2.15	0.05
1:A:146:VAL:CG2	1:B:212:TYR:O[5_454]	2.15	0.05
1:A:146:VAL:CA	1:B:164:PRO:CG[5_454]	2.15	0.05
1:A:151:GLU:O	5:B:817:TRP:OXT[5_454]	2.15	0.05
1:A:153:LYS:O	1:B:280:PHE:CG[5_454]	2.15	0.05
1:A:158:LEU:C	1:B:239:ASP:CA[5_454]	2.15	0.05
1:A:166:SER:CB	1:A:362:THR:CG2[6_574]	2.15	0.05
1:A:179:PHE:CG	1:B:457:VAL:C[5_454]	2.15	0.05
1:A:179:PHE:C	1:B:462:THR:OG1[5_454]	2.15	0.05
1:A:182:TRP:CD1	1:B:232:THR:C[5_454]	2.15	0.05
1:A:183:LEU:CD2	1:A:271:ASP:CB[8_664]	2.15	0.05
1:A:183:LEU:O	1:B:234:ILE:C[5_454]	2.15	0.05
1:A:187:PHE:CD2	1:B:194:GLN:C[5_454]	2.15	0.05
1:A:200:LYS:CE	1:A:339:PHE:CZ[8_664]	2.15	0.05
1:A:201:TYR:CZ	1:A:451:GLU:OE2[6_574]	2.15	0.05
1:A:205:ASP:O	1:A:442:ILE:C[6_574]	2.15	0.05
1:A:206:LEU:CA	1:A:447:ALA:N[6_574]	2.15	0.05
1:A:207:THR:O	1:A:448:ARG:O[6_574]	2.15	0.05
1:A:210:GLN:NE2	1:A:445:HIS:ND1[6_574]	2.15	0.05
1:A:214:TYR:N	1:A:220:LYS:CA[6_574]	2.15	0.05
1:A:230:ASN:CG	1:B:299:ASP:OD2[6_574]	2.15	0.05
1:A:230:ASN:O	1:B:244:SER:O[5_454]	2.15	0.05
1:A:231:LYS:NZ	1:B:293:PHE:CG[5_454]	2.15	0.05
1:A:240:TYR:CA	1:A:464:ARG:N[5_454]	2.15	0.05
1:A:240:TYR:C	1:A:296:ILE:CG2[5_454]	2.15	0.05
1:A:250:ASN:CB	6:A:886:HOH:O[5_454]	2.15	0.05
1:A:258:VAL:CA	1:B:209:ASP:N[3_675]	2.15	0.05
1:A:261:ASN:O	1:B:239:ASP:OD1[3_675]	2.15	0.05
1:A:264:LYS:N	1:B:212:TYR:OH[3_675]	2.15	0.05
1:A:270:THR:CB	1:B:461:MET:N[3_675]	2.15	0.05
1:A:271:ASP:OD1	1:B:234:ILE:O[3_675]	2.15	0.05
1:A:275:ILE:CD1	1:B:449:ARG:CZ[3_675]	2.15	0.05
1:A:277:LYS:C	6:A:910:HOH:O[5_454]	2.15	0.05
1:A:279:SER:N	1:A:473:HIS:CE1[5_454]	2.15	0.05
1:A:281:PRO:C	1:A:314:ASP:OD1[8_664]	2.15	0.05
1:A:305:CYS:N	6:A:897:HOH:O[8_664]	2.15	0.05
1:A:330:PRO:O	4:B:812:GOL:C3[5_454]	2.15	0.05
1:A:332:PRO:C	1:B:209:ASP:CA[5_454]	2.15	0.05
1:A:342:ALA:CB	1:A:353:SER:CB[8_664]	2.15	0.05
1:A:365:ALA:N	1:A:402:TYR:CE1[3_665]	2.15	0.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:368:ILE:CB	1:A:398:VAL:C[3_665]	2.15	0.05
1:A:369:LYS:CE	1:A:438:LEU:CG[3_665]	2.15	0.05
1:A:376:ALA:O	6:A:891:HOH:O[3_665]	2.15	0.05
1:A:393:ASN:CG	1:A:441:LEU:CD1[4_465]	2.15	0.05
1:A:393:ASN:N	1:A:406:PHE:CA[4_465]	2.15	0.05
1:A:399:SER:CB	1:A:427:THR:OG1[3_665]	2.15	0.05
1:A:399:SER:OG	1:A:435:ILE:CB[4_465]	2.15	0.05
1:A:425:MET:CG	1:A:433:ALA:CB[4_465]	2.15	0.05
1:A:432:LYS:N	1:A:432:LYS:CB[4_465]	2.15	0.05
1:A:434:LEU:C	6:A:892:HOH:O[2_575]	2.15	0.05
1:A:470:PHE:CG	6:A:904:HOH:O[5_454]	2.15	0.05
1:B:208:LEU:O	6:A:826:HOH:O[5_454]	2.15	0.05
1:B:196:THR:CG2	6:A:881:HOH:O[5_454]	2.15	0.05
5:B:817:TRP:CE3	6:A:903:HOH:O[5_454]	2.15	0.05
1:B:101:ASP:C	1:B:400:PHE:N[3_675]	2.15	0.05
1:B:104:ILE:C	1:B:402:TYR:O[3_675]	2.15	0.05
1:B:105:VAL:CG1	1:B:404:THR:C[3_675]	2.15	0.05
1:B:107:PHE:CD1	1:B:340:PHE:CE1[3_675]	2.15	0.05
1:B:111:LYS:CG	1:B:430:LEU:N[3_675]	2.15	0.05
1:B:113:ASP:CB	1:B:429:GLU:CG[3_675]	2.15	0.05
1:B:114:LYS:CD	1:B:388:ARG:CZ[3_675]	2.15	0.05
1:B:140:HIS:CG	1:B:435:ILE:CB[3_675]	2.15	0.05
1:B:141:ARG:N	1:B:435:ILE:O[3_675]	2.15	0.05
1:B:141:ARG:CA	1:B:439:GLN:CD[3_675]	2.15	0.05
1:B:143:MET:SD	1:B:369:LYS:CE[3_675]	2.15	0.05
1:B:166:SER:CA	1:B:277:LYS:CB[4_365]	2.15	0.05
1:B:170:HIS:CA	1:B:315:PRO:CB[4_365]	2.15	0.05
1:B:197:ASP:O	1:B:272:SER:OG[4_365]	2.15	0.05
1:B:215:ALA:N	1:B:278:ILE:CD1[4_365]	2.15	0.05
1:B:291:ASN:CB	1:B:298:ARG:C[2_475]	2.15	0.05
1:B:308:PRO:CD	1:B:370:THR:OG1[3_675]	2.15	0.05
1:B:310:ALA:O	1:B:371:LYS:CG[3_675]	2.15	0.05
1:B:312:ASP:CG	1:B:357:SER:N[3_675]	2.15	0.05
1:B:321:ARG:NE	1:B:440:PRO:N[3_675]	2.15	0.05
1:A:88:TRP:O	1:A:164:PRO:N[8_664]	2.16	0.04
1:A:94:SER:N	1:A:214:TYR:CD1[8_664]	2.16	0.04
1:A:94:SER:CA	1:A:214:TYR:CE1[8_664]	2.16	0.04
1:A:101:ASP:O	1:B:252:VAL:CG2[8_664]	2.16	0.04
1:A:101:ASP:OD1	1:A:201:TYR:CD2[8_664]	2.16	0.04
1:A:103:LEU:CA	1:A:198:ASP:OD1[8_664]	2.16	0.04
1:A:112:ILE:O	6:B:825:HOH:O[5_454]	2.16	0.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:112:ILE:O	1:B:258:VAL:CA[8_664]	2.16	0.04
1:A:120:ILE:CD1	1:B:260:PHE:CB[8_664]	2.16	0.04
1:A:120:ILE:CB	1:B:261:ASN:N[8_664]	2.16	0.04
1:A:122:ARG:NH1	1:B:173:HIS:O[5_454]	2.16	0.04
1:A:126:GLN:OE1	1:B:191:LEU:CD2[5_454]	2.16	0.04
1:A:128:PRO:C	1:B:460:PHE:CE1[5_454]	2.16	0.04
1:A:131:PHE:CD2	1:B:459:GLU:CB[5_454]	2.16	0.04
1:A:132:LEU:O	1:B:452:VAL:CG2[5_454]	2.16	0.04
1:A:137:PHE:CD1	1:B:458:LYS:N[5_454]	2.16	0.04
1:A:137:PHE:CD1	1:B:455:GLU:O[5_454]	2.16	0.04
1:A:137:PHE:C	1:A:274:CYS:SG[8_664]	2.16	0.04
1:A:144:ASN:CG	1:B:277:LYS:O[8_664]	2.16	0.04
1:A:150:TYR:CB	1:B:162:ARG:O[5_454]	2.16	0.04
1:A:150:TYR:N	1:B:196:THR:CA[5_454]	2.16	0.04
1:A:154:LYS:CG	1:B:199:GLU:CG[5_454]	2.16	0.04
1:A:159:TYR:CD2	1:A:265:GLY:C[8_664]	2.16	0.04
1:A:179:PHE:CB	1:B:458:LYS:CA[5_454]	2.16	0.04
1:A:180:THR:OG1	1:A:268:GLY:O[8_664]	2.16	0.04
1:A:181:LYS:CE	1:B:464:ARG:N[5_454]	2.16	0.04
1:A:187:PHE:CE2	1:B:195:MET:CB[5_454]	2.16	0.04
1:A:210:GLN:CD	1:A:445:HIS:CB[6_574]	2.16	0.04
1:A:213:SER:C	1:A:220:LYS:C[6_574]	2.16	0.04
1:A:214:TYR:CZ	1:A:221:ASP:CG[6_574]	2.16	0.04
1:A:231:LYS:CB	1:B:244:SER:CA[5_454]	2.16	0.04
1:A:238:LEU:CB	1:A:465:LYS:CB[5_454]	2.16	0.04
1:A:239:ASP:CB	1:A:456:ILE:N[6_574]	2.16	0.04
1:A:241:MET:N	1:A:296:ILE:N[5_454]	2.16	0.04
1:A:247:PHE:CZ	1:A:295:GLN:N[5_454]	2.16	0.04
1:A:250:ASN:CG	1:A:291:ASN:CB[5_454]	2.16	0.04
1:A:253:LYS:CB	1:A:301:THR:CG2[5_454]	2.16	0.04
1:A:258:VAL:CB	1:B:209:ASP:CG[3_675]	2.16	0.04
1:A:261:ASN:CG	1:B:197:ASP:OD1[3_675]	2.16	0.04
1:A:266:ILE:CG2	1:A:317:PHE:CE2[8_664]	2.16	0.04
1:A:278:ILE:CG2	1:A:473:HIS:CG[5_454]	2.16	0.04
1:A:280:PHE:O	1:A:314:ASP:CG[8_664]	2.16	0.04
1:A:284:GLN:CD	1:A:315:PRO:N[8_664]	2.16	0.04
1:A:284:GLN:NE2	1:A:315:PRO:CD[8_664]	2.16	0.04
1:A:311:ILE:CG1	1:A:450:LYS:NZ[4_465]	2.16	0.04
1:A:344:GLN:CA	1:A:371:LYS:CD[4_465]	2.16	0.04
1:A:346:ALA:CA	1:A:361:LEU:O[4_465]	2.16	0.04
1:A:354:ASP:CG	1:A:357:SER:CB[8_664]	2.16	0.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:359:ILE:CB	1:A:377:PHE:CA[3_665]	2.16	0.04
1:A:368:ILE:CD1	1:A:398:VAL:CG2[3_665]	2.16	0.04
1:A:371:LYS:CA	1:A:375:HIS:CB[3_665]	2.16	0.04
1:A:372:VAL:O	1:A:372:VAL:CB[4_465]	2.16	0.04
1:A:389:GLN:NE2	1:A:410:ASP:OD2[4_465]	2.16	0.04
1:A:412:LYS:O	1:A:423:GLY:O[3_665]	2.16	0.04
1:A:417:ARG:CG	2:A:807:CL:CL[3_665]	2.16	0.04
1:A:429:GLU:CA	1:A:433:ALA:N[2_575]	2.16	0.04
1:A:430:LEU:CD2	1:A:435:ILE:C[4_465]	2.16	0.04
1:A:459:GLU:CG	1:A:459:GLU:CD[2_475]	2.16	0.04
1:A:467:SER:CA	1:B:246:GLY:O[5_454]	2.16	0.04
1:A:468:PHE:CG	1:B:248:TYR:N[5_454]	2.16	0.04
1:A:469:ASP:CB	1:B:251:VAL:O[5_454]	2.16	0.04
1:B:201:TYR:CE2	6:A:853:HOH:O[5_454]	2.16	0.04
1:B:449:ARG:O	6:A:911:HOH:O[5_454]	2.16	0.04
1:B:94:SER:CB	1:B:96:LYS:CA[3_675]	2.16	0.04
1:B:100:TYR:CB	1:B:398:VAL:CB[3_675]	2.16	0.04
1:B:101:ASP:CA	1:B:401:MET:N[3_675]	2.16	0.04
1:B:105:VAL:CA	1:B:402:TYR:C[3_675]	2.16	0.04
1:B:110:SER:O	1:B:433:ALA:C[3_675]	2.16	0.04
1:B:111:LYS:CD	1:B:430:LEU:CD1[3_675]	2.16	0.04
1:B:116:LEU:CB	1:B:432:LYS:CD[3_675]	2.16	0.04
1:B:116:LEU:CG	1:B:432:LYS:CD[3_675]	2.16	0.04
1:B:116:LEU:N	1:B:432:LYS:NZ[3_675]	2.16	0.04
1:B:135:GLY:CA	1:B:427:THR:OG1[3_675]	2.16	0.04
1:B:137:PHE:N	1:B:373:ASN:C[3_675]	2.16	0.04
1:B:139:SER:CA	1:B:431:LYS:O[3_675]	2.16	0.04
1:B:164:PRO:N	1:B:270:THR:CG2[4_365]	2.16	0.04
1:B:164:PRO:CD	1:B:270:THR:C[4_365]	2.16	0.04
1:B:169:MET:O	1:B:267:PHE:CZ[4_365]	2.16	0.04
1:B:198:ASP:N	1:B:272:SER:CB[4_365]	2.16	0.04
1:B:214:TYR:CZ	1:B:277:LYS:CG[4_365]	2.16	0.04
1:B:221:ASP:CA	1:B:262:GLN:N[4_365]	2.16	0.04
1:B:224:ALA:CA	1:B:262:GLN:CG[4_365]	2.16	0.04
1:B:308:PRO:CA	1:B:370:THR:CA[3_675]	2.16	0.04
1:B:309:CYS:N	1:B:370:THR:C[3_675]	2.16	0.04
1:B:312:ASP:OD2	1:B:355:PRO:C[3_675]	2.16	0.04
1:B:316:TYR:C	1:B:361:LEU:O[3_675]	2.16	0.04
1:B:316:TYR:CZ	1:B:360:PHE:CD2[3_675]	2.16	0.04
1:B:317:PHE:CD2	1:B:363:ASP:N[3_675]	2.16	0.04
1:B:337:SER:N	1:B:372:VAL:C[3_675]	2.16	0.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:356:ASN:CG	6:B:896:HOH:O[4_365]	2.16	0.04
1:A:88:TRP:C	1:A:163:GLY:N[8_664]	2.17	0.03
1:A:90:VAL:O	1:A:449:ARG:NH1[4_465]	2.17	0.03
1:A:91:GLN:CA	1:A:214:TYR:CB[8_664]	2.17	0.03
1:A:92:THR:O	1:A:166:SER:CB[8_664]	2.17	0.03
1:A:96:LYS:O	1:A:205:ASP:C[8_664]	2.17	0.03
1:A:96:LYS:CG	1:A:210:GLN:NE2[8_664]	2.17	0.03
1:A:99:ASP:N	1:A:446:GLN:O[4_465]	2.17	0.03
1:A:99:ASP:CA	1:A:449:ARG:CA[4_465]	2.17	0.03
1:A:100:TYR:CA	1:A:201:TYR:CG[8_664]	2.17	0.03
1:A:104:ILE:CG1	1:A:202:LEU:CD1[8_664]	2.17	0.03
1:A:105:VAL:CB	1:A:465:LYS:CD[3_675]	2.17	0.03
1:A:106:ARG:CA	1:A:237:ASP:CG[8_664]	2.17	0.03
1:A:106:ARG:N	1:A:198:ASP:OD2[8_664]	2.17	0.03
1:A:111:LYS:CD	1:B:253:LYS:C[8_664]	2.17	0.03
1:A:111:LYS:CA	1:B:255:GLN:CD[8_664]	2.17	0.03
1:A:111:LYS:C	1:B:255:GLN:CB[8_664]	2.17	0.03
1:A:112:ILE:CA	1:B:258:VAL:O[8_664]	2.17	0.03
1:A:117:ILE:CA	1:B:262:GLN:CG[8_664]	2.17	0.03
1:A:118:ASN:ND2	1:B:445:HIS:CE1[5_454]	2.17	0.03
1:A:120:ILE:N	1:B:264:LYS:CA[8_664]	2.17	0.03
1:A:124:THR:C	1:B:193:ILE:CG1[5_454]	2.17	0.03
1:A:140:HIS:CA	1:A:278:ILE:C[8_664]	2.17	0.03
1:A:141:ARG:CB	1:B:275:ILE:CG1[8_664]	2.17	0.03
1:A:141:ARG:CZ	1:A:283:ILE:N[8_664]	2.17	0.03
1:A:142:ASP:C	1:B:213:SER:O[5_454]	2.17	0.03
1:A:146:VAL:C	1:B:271:ASP:N[8_664]	2.17	0.03
1:A:147:LEU:C	1:B:270:THR:CG2[8_664]	2.17	0.03
1:A:150:TYR:CD1	1:B:194:GLN:CG[5_454]	2.17	0.03
1:A:154:LYS:CD	1:B:199:GLU:O[5_454]	2.17	0.03
1:A:154:LYS:CA	1:B:280:PHE:CE1[5_454]	2.17	0.03
1:A:156:PHE:CG	1:B:197:ASP:CG[5_454]	2.17	0.03
1:A:180:THR:CA	1:B:461:MET:C[5_454]	2.17	0.03
1:A:180:THR:C	1:B:461:MET:C[5_454]	2.17	0.03
1:A:187:PHE:CB	1:B:235:PHE:C[5_454]	2.17	0.03
1:A:189:VAL:CA	1:B:240:TYR:CD2[5_454]	2.17	0.03
1:A:200:LYS:N	1:A:450:LYS:CE[6_574]	2.17	0.03
1:A:208:LEU:O	1:A:448:ARG:O[6_574]	2.17	0.03
1:A:209:ASP:CA	1:A:224:ALA:N[6_574]	2.17	0.03
1:A:214:TYR:CD2	1:A:221:ASP:OD2[6_574]	2.17	0.03
1:A:215:ALA:CA	1:A:220:LYS:NZ[6_574]	2.17	0.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:230:ASN:CB	1:B:245:SER:O[5_454]	2.17	0.03
1:A:236:SER:CA	1:A:454:ASP:CA[6_574]	2.17	0.03
1:A:239:ASP:OD1	1:A:456:ILE:CB[6_574]	2.17	0.03
1:A:239:ASP:OD2	1:A:455:GLU:N[6_574]	2.17	0.03
1:A:239:ASP:N	1:A:465:LYS:CA[5_454]	2.17	0.03
1:A:240:TYR:CA	1:A:455:GLU:OE2[6_574]	2.17	0.03
1:A:241:MET:CE	1:A:297:PHE:C[5_454]	2.17	0.03
1:A:244:SER:CA	1:A:293:PHE:CE1[5_454]	2.17	0.03
1:A:244:SER:OG	1:A:293:PHE:CD2[5_454]	2.17	0.03
1:A:246:GLY:CA	1:A:293:PHE:CE2[5_454]	2.17	0.03
1:A:247:PHE:CD2	1:A:294:PRO:CA[5_454]	2.17	0.03
1:A:247:PHE:CE1	1:A:294:PRO:C[5_454]	2.17	0.03
1:A:254:ILE:N	1:A:301:THR:CA[5_454]	2.17	0.03
1:A:255:GLN:CB	1:A:300:ARG:CD[5_454]	2.17	0.03
1:A:257:HIS:CD2	1:A:331:LYS:NZ[8_664]	2.17	0.03
1:A:260:PHE:C	1:B:212:TYR:CE1[3_675]	2.17	0.03
1:A:261:ASN:N	1:A:306:LEU:CA[8_664]	2.17	0.03
1:A:261:ASN:N	1:A:305:CYS:O[8_664]	2.17	0.03
1:A:261:ASN:CB	1:A:304:GLN:O[8_664]	2.17	0.03
1:A:264:LYS:O	1:A:308:PRO:CD[8_664]	2.17	0.03
1:A:267:PHE:N	3:A:810:TYM:CH2[8_664]	2.17	0.03
1:A:270:THR:C	1:B:461:MET:CB[3_675]	2.17	0.03
1:A:272:SER:CA	1:B:223:ILE:CD1[3_675]	2.17	0.03
1:A:273:ASP:OD1	1:B:454:ASP:C[3_675]	2.17	0.03
1:A:277:LYS:O	1:A:336:HIS:ND1[8_664]	2.17	0.03
1:A:279:SER:OG	1:A:472:HIS:N[5_454]	2.17	0.03
1:A:280:PHE:N	1:A:336:HIS:CD2[8_664]	2.17	0.03
1:A:282:ALA:CB	1:A:472:HIS:NE2[5_454]	2.17	0.03
1:A:284:GLN:CG	1:A:318:ARG:CZ[8_664]	2.17	0.03
1:A:304:GLN:C	1:B:238:LEU:CB[5_454]	2.17	0.03
1:A:334:LEU:CD2	1:A:474:HIS:N[3_675]	2.17	0.03
1:A:340:PHE:CE2	1:A:366:LYS:N[4_465]	2.17	0.03
1:A:364:THR:C	1:A:402:TYR:CE1[3_665]	2.17	0.03
1:A:365:ALA:C	1:A:402:TYR:CE2[3_665]	2.17	0.03
1:A:365:ALA:CB	1:A:402:TYR:CD1[3_665]	2.17	0.03
1:A:366:LYS:CB	1:A:377:PHE:CE1[2_575]	2.17	0.03
1:A:384:ILE:CG2	1:A:400:PHE:CE2[4_465]	2.17	0.03
1:A:397:ASP:CB	1:A:438:LEU:C[4_465]	2.17	0.03
1:A:399:SER:OG	1:A:435:ILE:CD1[4_465]	2.17	0.03
1:A:410:ASP:N	1:A:422:SER:O[3_665]	2.17	0.03
1:A:412:LYS:CD	1:A:419:ASP:CB[3_665]	2.17	0.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:416:ILE:CB	1:A:436:GLU:OE2[4_465]	2.17	0.03
1:A:416:ILE:CG2	1:A:436:GLU:CB[4_465]	2.17	0.03
1:A:427:THR:O	1:A:431:LYS:CA[4_465]	2.17	0.03
1:A:459:GLU:CG	1:A:459:GLU:OE1[2_475]	2.17	0.03
1:A:466:LEU:CD2	1:B:244:SER:O[5_454]	2.17	0.03
1:A:467:SER:CA	6:B:823:HOH:O[5_454]	2.17	0.03
1:A:467:SER:O	1:B:247:PHE:CA[5_454]	2.17	0.03
1:B:222:ILE:CG2	6:A:824:HOH:O[5_454]	2.17	0.03
1:B:161:GLY:CA	6:A:903:HOH:O[5_454]	2.17	0.03
1:B:100:TYR:CE2	1:B:377:PHE:N[3_675]	2.17	0.03
1:B:100:TYR:O	1:B:399:SER:O[3_675]	2.17	0.03
1:B:103:LEU:N	1:B:401:MET:CB[3_675]	2.17	0.03
1:B:105:VAL:CA	1:B:404:THR:N[3_675]	2.17	0.03
1:B:108:GLY:CA	1:B:406:PHE:CB[3_675]	2.17	0.03
1:B:109:SER:C	1:B:434:LEU:C[3_675]	2.17	0.03
1:B:109:SER:CB	1:B:438:LEU:CG[3_675]	2.17	0.03
1:B:141:ARG:CB	1:B:439:GLN:CD[3_675]	2.17	0.03
1:B:145:GLN:O	1:B:152:ASN:CB[2_475]	2.17	0.03
1:B:173:HIS:ND1	1:B:267:PHE:CA[4_365]	2.17	0.03
1:B:196:THR:C	1:B:272:SER:OG[4_365]	2.17	0.03
1:B:214:TYR:CE2	1:B:274:CYS:SG[4_365]	2.17	0.03
1:B:219:ALA:C	1:B:260:PHE:N[4_365]	2.17	0.03
1:B:219:ALA:C	1:B:260:PHE:O[4_365]	2.17	0.03
1:B:219:ALA:O	1:B:260:PHE:C[4_365]	2.17	0.03
1:B:306:LEU:CA	1:B:366:LYS:CB[3_675]	2.17	0.03
1:B:307:ILE:C	1:B:367:GLN:CA[3_675]	2.17	0.03
1:B:312:ASP:OD2	1:B:355:PRO:O[3_675]	2.17	0.03
1:B:313:GLN:CA	1:B:363:ASP:OD2[3_675]	2.17	0.03
1:B:318:ARG:C	1:B:442:ILE:CB[3_675]	2.17	0.03
1:B:321:ARG:NE	1:B:439:GLN:CA[3_675]	2.17	0.03
1:B:333:ALA:C	1:B:365:ALA:CB[3_675]	2.17	0.03
1:A:90:VAL:CA	1:A:215:ALA:N[8_664]	2.18	0.02
1:A:93:SER:CB	6:A:828:HOH:O[4_465]	2.18	0.02
1:A:100:TYR:CE2	1:A:203:TRP:N[8_664]	2.18	0.02
1:A:100:TYR:CE2	1:A:204:LYS:N[8_664]	2.18	0.02
1:A:104:ILE:CD1	1:A:202:LEU:CD1[8_664]	2.18	0.02
1:A:107:PHE:C	1:A:283:ILE:CA[8_664]	2.18	0.02
1:A:110:SER:O	1:A:275:ILE:O[8_664]	2.18	0.02
1:A:111:LYS:CD	6:B:893:HOH:O[5_454]	2.18	0.02
1:A:113:ASP:C	1:B:449:ARG:NE[5_454]	2.18	0.02
1:A:115:GLU:OE2	6:B:824:HOH:O[5_454]	2.18	0.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:116:LEU:CD2	1:B:217:GLU:CB[5_454]	2.18	0.02
1:A:117:ILE:N	1:B:259:THR:O[8_664]	2.18	0.02
1:A:119:ARG:CA	1:B:264:LYS:N[8_664]	2.18	0.02
1:A:130:HIS:C	1:A:390:PHE:CG[3_665]	2.18	0.02
1:A:131:PHE:CD1	6:B:857:HOH:O[5_454]	2.18	0.02
1:A:132:LEU:CB	1:A:272:SER:O[8_664]	2.18	0.02
1:A:139:SER:O	1:A:274:CYS:O[8_664]	2.18	0.02
1:A:139:SER:C	1:A:277:LYS:CA[8_664]	2.18	0.02
1:A:139:SER:CA	1:A:276:GLY:O[8_664]	2.18	0.02
1:A:140:HIS:C	1:A:473:HIS:CE1[3_675]	2.18	0.02
1:A:140:HIS:CA	1:A:278:ILE:CA[8_664]	2.18	0.02
1:A:141:ARG:NE	1:A:282:ALA:CA[8_664]	2.18	0.02
1:A:141:ARG:N	1:B:213:SER:OG[5_454]	2.18	0.02
1:A:151:GLU:CA	1:B:163:GLY:N[5_454]	2.18	0.02
1:A:152:ASN:N	1:B:199:GLU:OE2[5_454]	2.18	0.02
1:A:156:PHE:CE2	1:B:195:MET:C[5_454]	2.18	0.02
1:A:157:TYR:C	1:B:238:LEU:O[5_454]	2.18	0.02
1:A:158:LEU:C	1:B:239:ASP:CG[5_454]	2.18	0.02
1:A:158:LEU:O	1:B:239:ASP:O[5_454]	2.18	0.02
1:A:164:PRO:O	1:A:449:ARG:NH1[6_574]	2.18	0.02
1:A:178:ILE:CG2	1:B:459:GLU:CG[5_454]	2.18	0.02
1:A:182:TRP:CZ3	1:B:234:ILE:CD1[5_454]	2.18	0.02
1:A:182:TRP:CD1	1:B:464:ARG:NH2[5_454]	2.18	0.02
1:A:182:TRP:CB	1:B:460:PHE:C[5_454]	2.18	0.02
1:A:183:LEU:CG	1:A:270:THR:CA[8_664]	2.18	0.02
1:A:186:VAL:N	1:B:233:PHE:CG[5_454]	2.18	0.02
1:A:190:PRO:CB	1:B:241:MET:CB[5_454]	2.18	0.02
1:A:206:LEU:CB	1:A:447:ALA:N[6_574]	2.18	0.02
1:A:209:ASP:CB	1:A:224:ALA:N[6_574]	2.18	0.02
1:A:212:TYR:CE1	1:A:453:THR:O[6_574]	2.18	0.02
1:A:213:SER:CA	1:A:219:ALA:O[6_574]	2.18	0.02
1:A:231:LYS:CE	1:B:292:SER:CA[5_454]	2.18	0.02
1:A:231:LYS:CG	1:B:292:SER:O[5_454]	2.18	0.02
1:A:232:THR:CA	1:B:243:MET:CA[5_454]	2.18	0.02
1:A:233:PHE:CD2	1:A:244:SER:N[5_454]	2.18	0.02
1:A:240:TYR:CD2	1:A:295:GLN:CG[5_454]	2.18	0.02
1:A:255:GLN:CA	6:A:890:HOH:O[5_454]	2.18	0.02
1:A:257:HIS:O	4:B:812:GOL:O2[3_675]	2.18	0.02
1:A:259:THR:O	1:A:333:ALA:CB[8_664]	2.18	0.02
1:A:263:VAL:N	1:A:307:ILE:CG1[8_664]	2.18	0.02
1:A:266:ILE:CB	1:A:307:ILE:CD1[8_664]	2.18	0.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:266:ILE:CG1	1:A:475:HIS:O[5_454]	2.18	0.02
1:A:269:PHE:CA	1:A:308:PRO:CG[8_664]	2.18	0.02
1:A:270:THR:CA	1:B:461:MET:CG[3_675]	2.18	0.02
1:A:272:SER:C	1:B:457:VAL:CB[3_675]	2.18	0.02
1:A:289:PHE:CZ	1:A:322:ASP:CB[8_664]	2.18	0.02
1:A:306:LEU:CD1	1:B:212:TYR:CZ[5_454]	2.18	0.02
1:A:307:ILE:CB	1:A:475:HIS:ND1[3_675]	2.18	0.02
1:A:322:ASP:C	1:A:324:ALA:CA[8_664]	2.18	0.02
1:A:331:LYS:CA	1:B:209:ASP:N[5_454]	2.18	0.02
1:A:341:PRO:CB	1:A:364:THR:C[4_465]	2.18	0.02
1:A:341:PRO:CD	1:A:364:THR:C[4_465]	2.18	0.02
1:A:341:PRO:O	1:A:364:THR:O[4_465]	2.18	0.02
1:A:342:ALA:C	1:A:363:ASP:CB[4_465]	2.18	0.02
1:A:348:THR:C	1:A:362:THR:CB[4_465]	2.18	0.02
1:A:367:GLN:N	1:A:402:TYR:CE2[3_665]	2.18	0.02
1:A:369:LYS:NZ	1:A:397:ASP:CB[2_575]	2.18	0.02
1:A:372:VAL:N	1:A:376:ALA:CB[3_665]	2.18	0.02
1:A:375:HIS:N	1:A:375:HIS:N[4_465]	2.18	0.02
1:A:380:GLY:O	1:A:402:TYR:CA[4_465]	2.18	0.02
1:A:381:ARG:N	1:A:403:LEU:C[4_465]	2.18	0.02
1:A:382:ASP:CA	1:A:405:PHE:CE1[4_465]	2.18	0.02
1:A:382:ASP:OD2	1:A:405:PHE:CE2[4_465]	2.18	0.02
1:A:384:ILE:O	1:A:400:PHE:CZ[4_465]	2.18	0.02
1:A:409:ASP:CB	1:A:422:SER:C[3_665]	2.18	0.02
1:A:440:PRO:N	6:A:865:HOH:O[2_575]	2.18	0.02
1:A:458:LYS:CD	1:A:462:THR:CA[2_475]	2.18	0.02
1:A:467:SER:N	1:B:249:LYS:N[5_454]	2.18	0.02
1:B:268:GLY:N	6:A:819:HOH:O[8_664]	2.18	0.02
1:B:275:ILE:C	6:A:874:HOH:O[8_664]	2.18	0.02
5:B:817:TRP:CD1	6:A:881:HOH:O[5_454]	2.18	0.02
1:B:94:SER:N	1:B:347:GLN:NE2[2_485]	2.18	0.02
1:B:106:ARG:CZ	1:B:340:PHE:CA[3_675]	2.18	0.02
1:B:113:ASP:CB	1:B:429:GLU:CA[3_675]	2.18	0.02
1:B:113:ASP:C	1:B:429:GLU:CA[3_675]	2.18	0.02
1:B:113:ASP:CA	1:B:429:GLU:C[3_675]	2.18	0.02
1:B:169:MET:CG	1:B:263:VAL:O[4_365]	2.18	0.02
1:B:169:MET:C	1:B:267:PHE:CG[4_365]	2.18	0.02
1:B:179:PHE:CB	1:B:374:LYS:NZ[3_675]	2.18	0.02
1:B:258:VAL:CG2	1:B:449:ARG:CB[3_675]	2.18	0.02
1:B:284:GLN:C	6:B:847:HOH:O[3_675]	2.18	0.02
1:B:308:PRO:CD	6:B:869:HOH:O[3_675]	2.18	0.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:313:GLN:NE2	1:B:360:PHE:CE1[3_675]	2.18	0.02
1:B:329:TYR:N	1:B:469:ASP:CG[2_475]	2.18	0.02
1:B:337:SER:O	1:B:376:ALA:N[3_675]	2.18	0.02
1:B:425:MET:CG	2:B:808:CL:CL[4_365]	2.18	0.02
1:A:94:SER:OG	1:A:445:HIS:CG[4_465]	2.19	0.01
1:A:95:ALA:N	1:A:361:LEU:CG[4_465]	2.19	0.01
1:A:98:ILE:CG1	1:A:200:LYS:CB[8_664]	2.19	0.01
1:A:106:ARG:CB	1:A:237:ASP:OD2[8_664]	2.19	0.01
1:A:106:ARG:NH1	1:A:236:SER:CA[8_664]	2.19	0.01
1:A:110:SER:CA	1:A:471:GLN:CA[3_675]	2.19	0.01
1:A:113:ASP:CA	1:B:449:ARG:CG[5_454]	2.19	0.01
1:A:121:GLU:O	1:B:177:PHE:CG[5_454]	2.19	0.01
1:A:129:HIS:C	1:B:460:PHE:CD2[5_454]	2.19	0.01
1:A:129:HIS:NE2	1:B:229:ILE:CD1[5_454]	2.19	0.01
1:A:129:HIS:CA	1:B:460:PHE:CD1[5_454]	2.19	0.01
1:A:134:ARG:CD	1:A:390:PHE:CD1[3_665]	2.19	0.01
1:A:136:ILE:N	1:B:453:THR:CA[5_454]	2.19	0.01
1:A:137:PHE:CE2	1:B:458:LYS:CB[5_454]	2.19	0.01
1:A:139:SER:C	1:A:275:ILE:O[8_664]	2.19	0.01
1:A:139:SER:C	1:A:473:HIS:NE2[3_675]	2.19	0.01
1:A:140:HIS:CB	1:A:275:ILE:O[8_664]	2.19	0.01
1:A:143:MET:O	1:B:215:ALA:CA[5_454]	2.19	0.01
1:A:146:VAL:CG1	1:B:271:ASP:CB[8_664]	2.19	0.01
1:A:147:LEU:N	1:B:164:PRO:CD[5_454]	2.19	0.01
1:A:148:ASP:N	1:B:164:PRO:CD[5_454]	2.19	0.01
1:A:159:TYR:CD2	1:A:266:ILE:CG1[8_664]	2.19	0.01
1:A:159:TYR:CE2	1:A:266:ILE:CA[8_664]	2.19	0.01
1:A:180:THR:O	1:B:461:MET:C[5_454]	2.19	0.01
1:A:182:TRP:CZ3	1:B:460:PHE:CB[5_454]	2.19	0.01
1:A:182:TRP:CE3	1:B:460:PHE:O[5_454]	2.19	0.01
1:A:197:ASP:CG	6:A:840:HOH:O[6_574]	2.19	0.01
1:A:203:TRP:CA	1:A:338:THR:CG2[8_664]	2.19	0.01
1:A:203:TRP:CH2	1:A:336:HIS:CB[8_664]	2.19	0.01
1:A:211:ALA:C	1:A:449:ARG:CG[6_574]	2.19	0.01
1:A:212:TYR:CD1	1:A:457:VAL:CG2[6_574]	2.19	0.01
1:A:214:TYR:CA	1:A:449:ARG:CZ[6_574]	2.19	0.01
1:A:239:ASP:CB	1:A:454:ASP:C[6_574]	2.19	0.01
1:A:240:TYR:CE2	1:A:295:GLN:CD[5_454]	2.19	0.01
1:A:245:SER:N	1:A:293:PHE:CE1[5_454]	2.19	0.01
1:A:249:LYS:CB	1:A:290:SER:CA[5_454]	2.19	0.01
1:A:260:PHE:CD1	1:B:216:VAL:N[3_675]	2.19	0.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:261:ASN:OD1	1:B:238:LEU:CB[3_675]	2.19	0.01
1:A:262:GLN:CG	6:A:826:HOH:O[8_664]	2.19	0.01
1:A:263:VAL:C	1:A:475:HIS:NE2[5_454]	2.19	0.01
1:A:266:ILE:CG1	1:A:475:HIS:C[5_454]	2.19	0.01
1:A:273:ASP:O	1:B:457:VAL:CB[3_675]	2.19	0.01
1:A:275:ILE:O	1:A:471:GLN:CG[5_454]	2.19	0.01
1:A:281:PRO:N	1:A:314:ASP:CG[8_664]	2.19	0.01
1:A:304:GLN:CG	1:B:238:LEU:CD1[5_454]	2.19	0.01
1:A:306:LEU:CD1	1:B:216:VAL:CG2[5_454]	2.19	0.01
1:A:313:GLN:O	1:A:316:TYR:CE1[8_664]	2.19	0.01
1:A:313:GLN:N	1:A:316:TYR:CE1[8_664]	2.19	0.01
1:A:319:MET:O	1:A:321:ARG:N[8_664]	2.19	0.01
1:A:326:ARG:NH1	4:B:812:GOL:C1[3_675]	2.19	0.01
1:A:346:ALA:O	1:A:362:THR:N[4_465]	2.19	0.01
1:A:348:THR:N	1:A:362:THR:CG2[4_465]	2.19	0.01
1:A:428:GLY:O	1:A:432:LYS:C[2_575]	2.19	0.01
1:A:458:LYS:CG	1:A:462:THR:CB[2_475]	2.19	0.01
1:A:468:PHE:N	1:B:247:PHE:C[5_454]	2.19	0.01
1:B:450:LYS:C	6:A:911:HOH:O[5_454]	2.19	0.01
1:B:94:SER:C	1:B:94:SER:CB[4_365]	2.19	0.01
1:B:95:ALA:CA	1:B:97:GLY:N[4_365]	2.19	0.01
1:B:98:ILE:CA	1:B:346:ALA:CA[3_675]	2.19	0.01
1:B:98:ILE:O	1:B:396:VAL:O[3_675]	2.19	0.01
1:B:100:TYR:C	1:B:397:ASP:O[3_675]	2.19	0.01
1:B:102:LYS:CA	1:B:400:PHE:O[3_675]	2.19	0.01
1:B:103:LEU:CB	1:B:398:VAL:O[3_675]	2.19	0.01
1:B:103:LEU:CD2	1:B:402:TYR:CE2[3_675]	2.19	0.01
1:B:106:ARG:NH2	1:B:341:PRO:N[3_675]	2.19	0.01
1:B:106:ARG:O	1:B:406:PHE:CG[3_675]	2.19	0.01
1:B:137:PHE:CG	1:B:373:ASN:CA[3_675]	2.19	0.01
1:B:138:PHE:CE2	1:B:399:SER:CB[3_675]	2.19	0.01
1:B:140:HIS:N	1:B:435:ILE:CD1[3_675]	2.19	0.01
1:B:145:GLN:OE1	1:B:152:ASN:C[2_475]	2.19	0.01
1:B:167:GLU:CB	1:B:280:PHE:N[4_365]	2.19	0.01
1:B:167:GLU:CD	1:B:279:SER:N[4_365]	2.19	0.01
1:B:217:GLU:CB	1:B:278:ILE:O[4_365]	2.19	0.01
1:B:220:LYS:CA	1:B:259:THR:CB[4_365]	2.19	0.01
1:B:308:PRO:CG	6:B:869:HOH:O[3_675]	2.19	0.01
1:B:309:CYS:SG	1:B:371:LYS:CG[3_675]	2.19	0.01
1:B:316:TYR:CB	1:B:363:ASP:N[3_675]	2.19	0.01
1:B:317:PHE:CE2	1:B:367:GLN:OE1[3_675]	2.19	0.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:329:TYR:CD1	1:B:471:GLN:CA[2_475]	2.19	0.01
1:B:329:TYR:CB	1:B:471:GLN:CB[2_475]	2.19	0.01
1:B:335:LEU:CB	1:B:369:LYS:CB[3_675]	2.19	0.01
1:B:336:HIS:N	1:B:372:VAL:CB[3_675]	2.19	0.01
1:B:336:HIS:CA	1:B:371:LYS:C[3_675]	2.19	0.01
1:B:339:PHE:CE1	1:B:357:SER:CB[3_675]	2.19	0.01
1:B:349:LYS:NZ	1:B:354:ASP:CB[3_675]	2.19	0.01

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	386/477 (81%)	370 (96%)	15 (4%)	1 (0%)	41	54
1	B	376/477 (79%)	362 (96%)	12 (3%)	2 (0%)	29	40
All	All	762/954 (80%)	732 (96%)	27 (4%)	3 (0%)	34	47

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	91	GLN
1	B	299	ASP
1	B	467	SER

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	335/416 (80%)	317 (95%)	18 (5%)	22	34
1	B	329/416 (79%)	313 (95%)	16 (5%)	25	39
All	All	664/832 (80%)	630 (95%)	34 (5%)	24	37

All (34) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	101	ASP
1	A	103	LEU
1	A	197	ASP
1	A	202	LEU
1	A	232	THR
1	A	236	SER
1	A	239	ASP
1	A	291	ASN
1	A	295	GLN
1	A	296	ILE
1	A	301	THR
1	A	311	ILE
1	A	322	ASP
1	A	344	GLN
1	A	354	ASP
1	A	393	ASN
1	A	407	LEU
1	A	464	ARG
1	B	151	GLU
1	B	192	VAL
1	B	202	LEU
1	B	203	TRP
1	B	207	THR
1	B	232	THR
1	B	236	SER
1	B	291	ASN
1	B	295	GLN
1	B	311	ILE
1	B	322	ASP
1	B	349	LYS
1	B	393	ASN
1	B	427	THR
1	B	430	LEU
1	B	441	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (27) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	140	HIS
1	A	170	HIS
1	A	188	ASN
1	A	255	GLN
1	A	257	HIS
1	A	261	ASN
1	A	262	GLN
1	A	291	ASN
1	A	295	GLN
1	A	304	GLN
1	A	336	HIS
1	A	344	GLN
1	A	347	GLN
1	A	375	HIS
1	A	393	ASN
1	A	445	HIS
1	B	140	HIS
1	B	170	HIS
1	B	257	HIS
1	B	262	GLN
1	B	291	ASN
1	B	295	GLN
1	B	336	HIS
1	B	344	GLN
1	B	347	GLN
1	B	393	ASN
1	B	445	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no monosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 15 ligands modelled in this entry, 9 are monoatomic - leaving 6 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	#$|Z| > 2$	Counts	RMSZ	#$|Z| > 2$
3	TYM	A	810	-	36,41,41	1.75	7 (19%)	39,61,61	1.43	5 (12%)
4	GOL	B	815	-	5,5,5	4.32	5 (100%)	5,5,5	5.49	3 (60%)
4	GOL	B	812	-	5,5,5	4.31	5 (100%)	5,5,5	5.53	3 (60%)
5	TRP	B	817	-	14,16,16	1.22	1 (7%)	16,22,22	0.98	1 (6%)
4	GOL	A	814	-	5,5,5	4.43	5 (100%)	5,5,5	5.52	3 (60%)
4	GOL	A	813	-	5,5,5	4.35	5 (100%)	5,5,5	5.54	3 (60%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	TYM	A	810	-	-	1/16/39/39	0/5/5/5
4	GOL	B	815	-	-	2/4/4/4	-
4	GOL	B	812	-	-	2/4/4/4	-
5	TRP	B	817	-	-	0/7/8/8	0/2/2/2
4	GOL	A	814	-	-	3/4/4/4	-
4	GOL	A	813	-	-	3/4/4/4	-

All (28) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	814	GOL	C3-C2	-7.46	1.21	1.51
4	B	812	GOL	C3-C2	-7.19	1.22	1.51
4	B	815	GOL	C3-C2	-7.17	1.22	1.51
4	A	813	GOL	C3-C2	-7.13	1.22	1.51
3	A	810	TYM	P-OPP	6.26	1.73	1.60
3	A	810	TYM	C2'-C1'	4.29	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	815	GOL	O1-C1	4.18	1.60	1.42
4	A	814	GOL	O1-C1	4.17	1.60	1.42
4	B	812	GOL	O1-C1	4.13	1.59	1.42
4	A	813	GOL	O1-C1	4.10	1.59	1.42
4	A	814	GOL	O2-C2	-3.19	1.33	1.43
4	A	813	GOL	C1-C2	-3.15	1.38	1.51
4	B	812	GOL	C1-C2	-3.07	1.39	1.51
4	B	815	GOL	O2-C2	-3.05	1.34	1.43
4	A	814	GOL	C1-C2	-3.03	1.39	1.51
4	A	813	GOL	O2-C2	-2.97	1.34	1.43
4	A	813	GOL	O3-C3	2.88	1.54	1.42
3	A	810	TYM	CZ2-CE2	2.81	1.46	1.41
3	A	810	TYM	P-O5'	2.81	1.70	1.59
4	B	815	GOL	C1-C2	-2.77	1.40	1.51
4	B	815	GOL	O3-C3	2.77	1.54	1.42
4	B	812	GOL	O2-C2	-2.71	1.35	1.43
4	B	812	GOL	O3-C3	2.71	1.53	1.42
3	A	810	TYM	CH2-CZ2	2.59	1.42	1.36
4	A	814	GOL	O3-C3	2.43	1.52	1.42
3	A	810	TYM	C2-N3	2.33	1.35	1.32
3	A	810	TYM	C8-N7	-2.09	1.31	1.34
5	B	817	TRP	OXT-C	-2.06	1.23	1.30

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	813	GOL	O3-C3-C2	9.52	155.86	110.20
4	B	812	GOL	O3-C3-C2	9.49	155.69	110.20
4	A	814	GOL	O3-C3-C2	9.48	155.67	110.20
4	B	815	GOL	O3-C3-C2	9.38	155.19	110.20
4	B	812	GOL	O2-C2-C3	7.24	140.99	109.12
4	A	813	GOL	O2-C2-C3	7.23	140.96	109.12
4	B	815	GOL	O2-C2-C3	7.17	140.69	109.12
4	A	814	GOL	O2-C2-C3	7.14	140.58	109.12
3	A	810	TYM	CB-CG-CD1	-5.18	121.57	127.97
4	B	815	GOL	O1-C1-C2	3.11	125.10	110.20
4	A	814	GOL	O1-C1-C2	3.07	124.90	110.20
4	A	813	GOL	O1-C1-C2	2.97	124.46	110.20
4	B	812	GOL	O1-C1-C2	2.94	124.30	110.20
3	A	810	TYM	OPP-P-O5'	-2.79	94.77	102.92
3	A	810	TYM	C3'-C2'-C1'	2.72	105.07	100.98
3	A	810	TYM	O4'-C1'-C2'	-2.68	103.01	106.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	810	TYM	O1P-P-O2P	2.63	125.23	112.24
5	B	817	TRP	OXT-C-O	-2.19	119.11	124.09

There are no chirality outliers.

All (11) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	813	GOL	O1-C1-C2-C3
4	A	813	GOL	C1-C2-C3-O3
4	A	814	GOL	O1-C1-C2-C3
4	A	814	GOL	C1-C2-C3-O3
4	B	812	GOL	C1-C2-C3-O3
4	B	815	GOL	O1-C1-C2-C3
4	B	815	GOL	C1-C2-C3-O3
4	B	812	GOL	O1-C1-C2-O2
4	A	813	GOL	O1-C1-C2-O2
3	A	810	TYM	C-OPP-P-O2P
4	A	814	GOL	O1-C1-C2-O2

There are no ring outliers.

6 monomers are involved in 108 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	810	TYM	5	7
4	B	815	GOL	1	3
4	B	812	GOL	0	33
5	B	817	TRP	0	25
4	A	814	GOL	2	28
4	A	813	GOL	0	4

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

Ligand TYM A 810

Bond lengths

Bond angles

Torsions

Rings
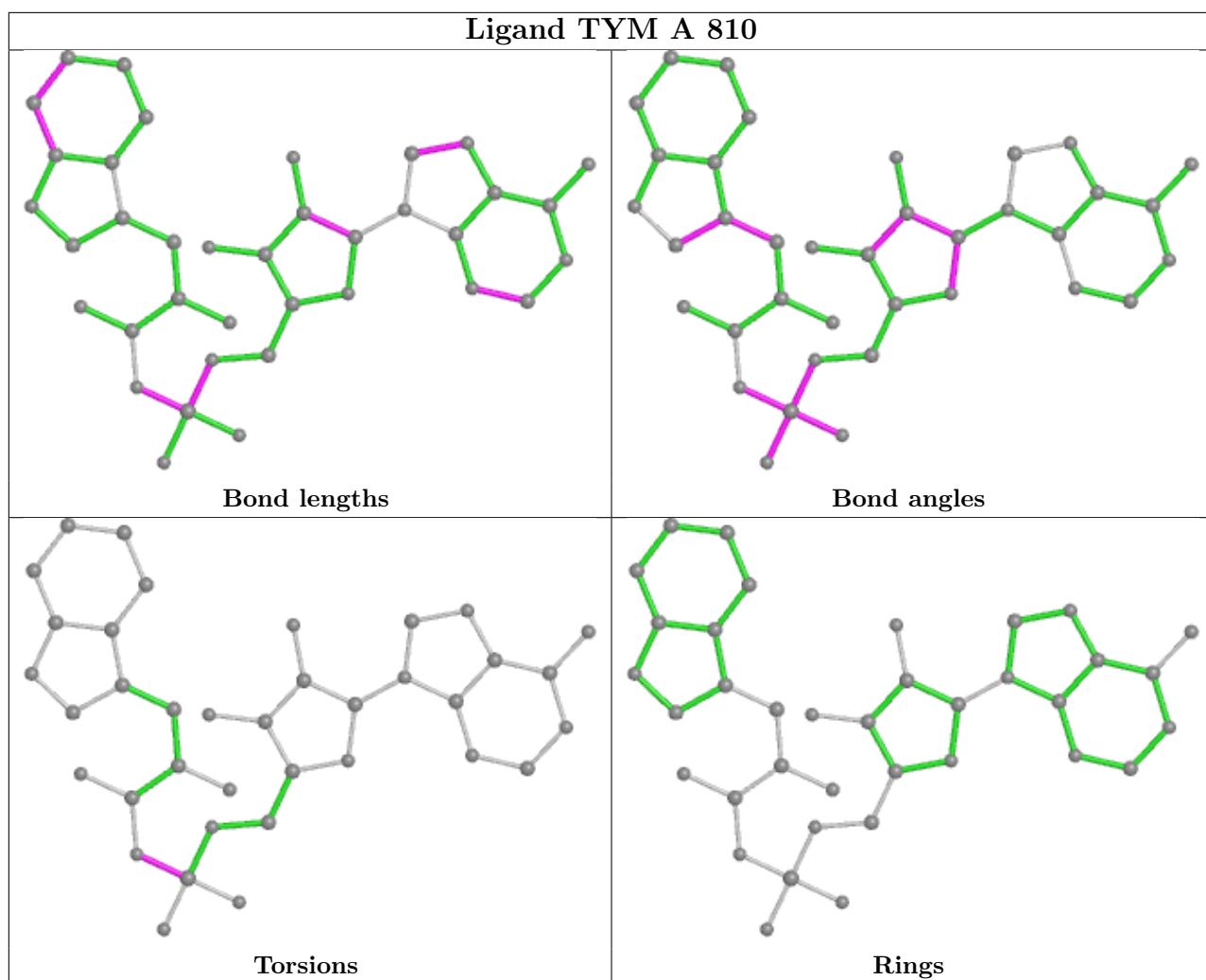
5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.

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

Unable to reproduce the depositors R factor - this section is therefore empty.

6.3 Carbohydrates ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.

6.4 Ligands ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around TYM A 810:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative) and green (positive)
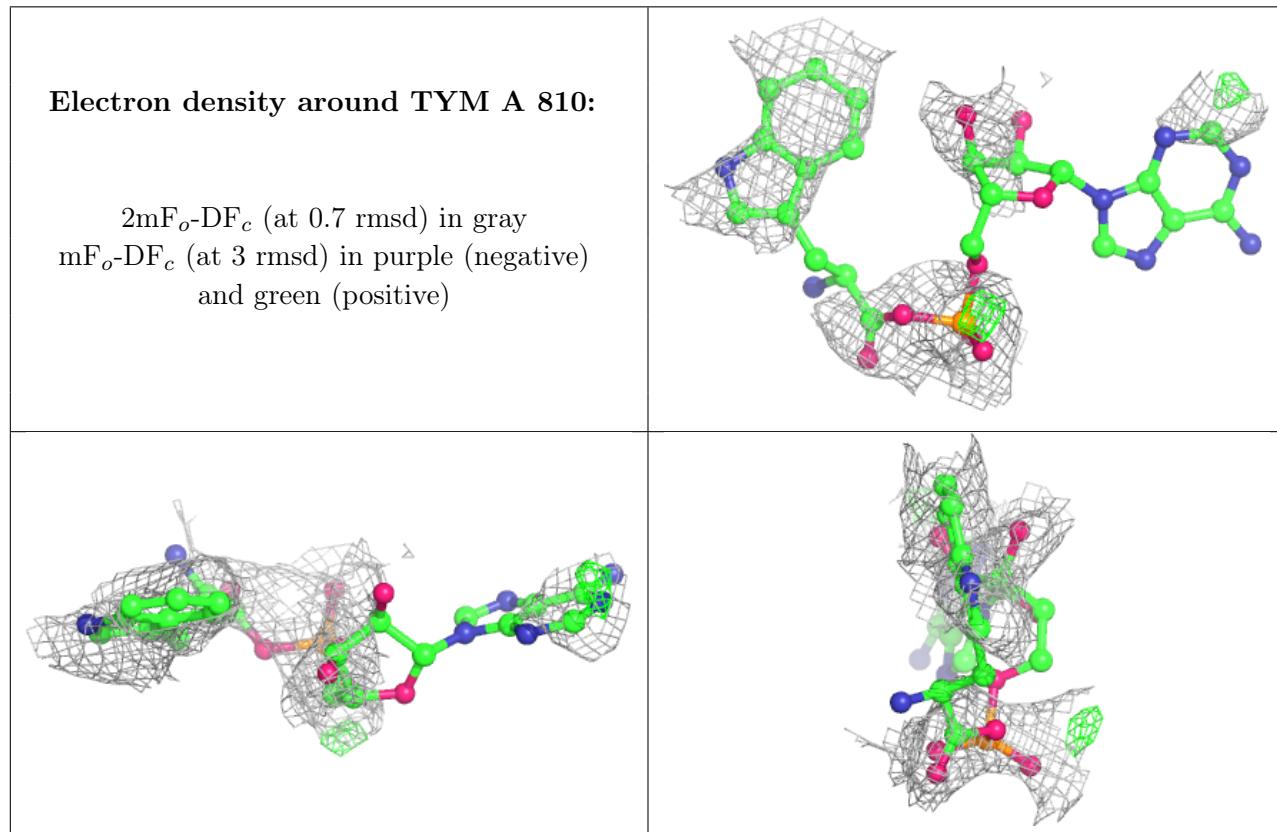
6.5 Other polymers (i)

Unable to reproduce the depositors R factor - this section is therefore empty.