Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 02:07 PM UTC

PDB ID	:	4PB6 / pdb_00004pb6
Title	:	Feline calicivirus VP1 T=1 virus-like particle
Authors	:	Burmeister, W.P.; Buisson, M.
Deposited on	:	2014-04-11
Resolution	:	8.00 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

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

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

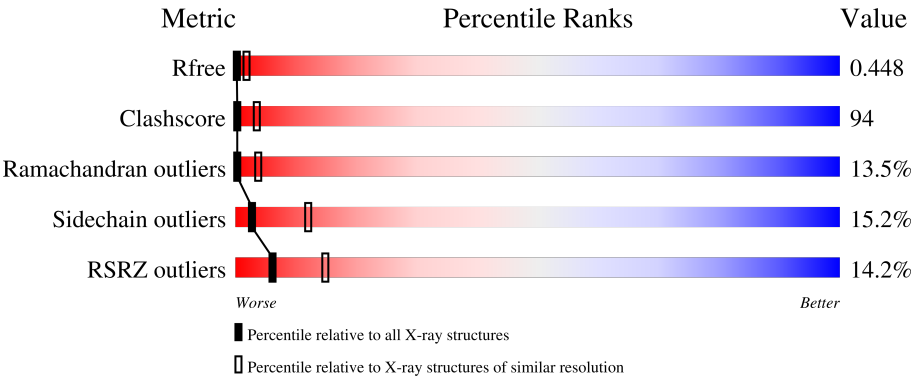
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 8.00 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}	180053	1168 (11.50-4.00)
Clashscore	190562	1001 (11.50-4.06)
Ramachandran outliers	187476	1055 (11.50-4.00)
Sidechain outliers	187428	1018 (11.50-4.00)
RSRZ outliers	180081	1162 (11.50-4.00)

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% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	545	13% 18% 52% 19% · 8%
1	B	545	12% 17% 52% 19% · 8%
1	C	545	15% 16% 53% 19% · 8%
1	D	545	13% 17% 53% 19% · 8%
1	E	545	13% 17% 52% 19% · 8%

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Mol	Chain	Length	Quality of chain
1	F	545	13% 17% 52% 19% 8%
1	G	545	12% 18% 52% 19% 8%
1	H	545	10% 17% 52% 19% 8%
1	I	545	14% 18% 51% 19% 8%
1	J	545	12% 17% 52% 20% 8%
1	K	545	14% 17% 52% 20% 8%
1	L	545	13% 16% 53% 19% 8%
1	M	545	13% 16% 52% 19% 8%
1	N	545	12% 17% 52% 19% 8%
1	O	545	13% 18% 52% 19% 8%
1	P	545	15% 17% 51% 20% 8%
1	Q	545	13% 18% 52% 19% 8%
1	R	545	15% 17% 52% 19% 8%
1	S	545	13% 17% 52% 19% 8%
1	T	545	12% 17% 52% 19% 8%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 77840 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 VP1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	B	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	C	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	D	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	E	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	F	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	G	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	H	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	I	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	J	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	K	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	L	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	M	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	N	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	O	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	P	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			

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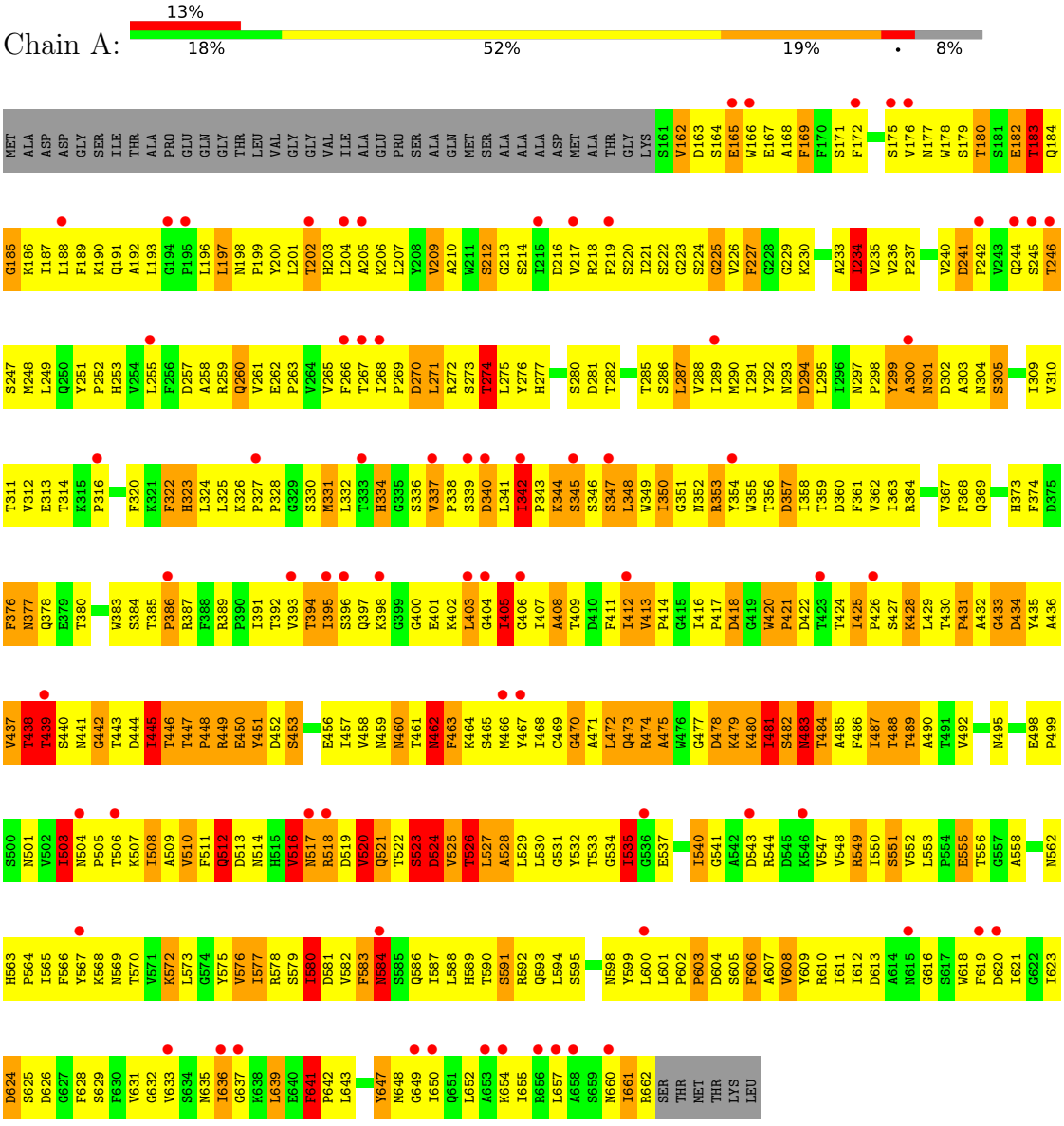
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Q	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	R	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	S	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			
1	T	502	Total	C	N	O	S	0	0	0
			3892	2491	651	742	8			

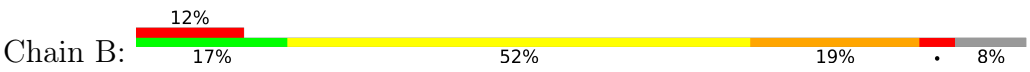
3 Residue-property plots (i)

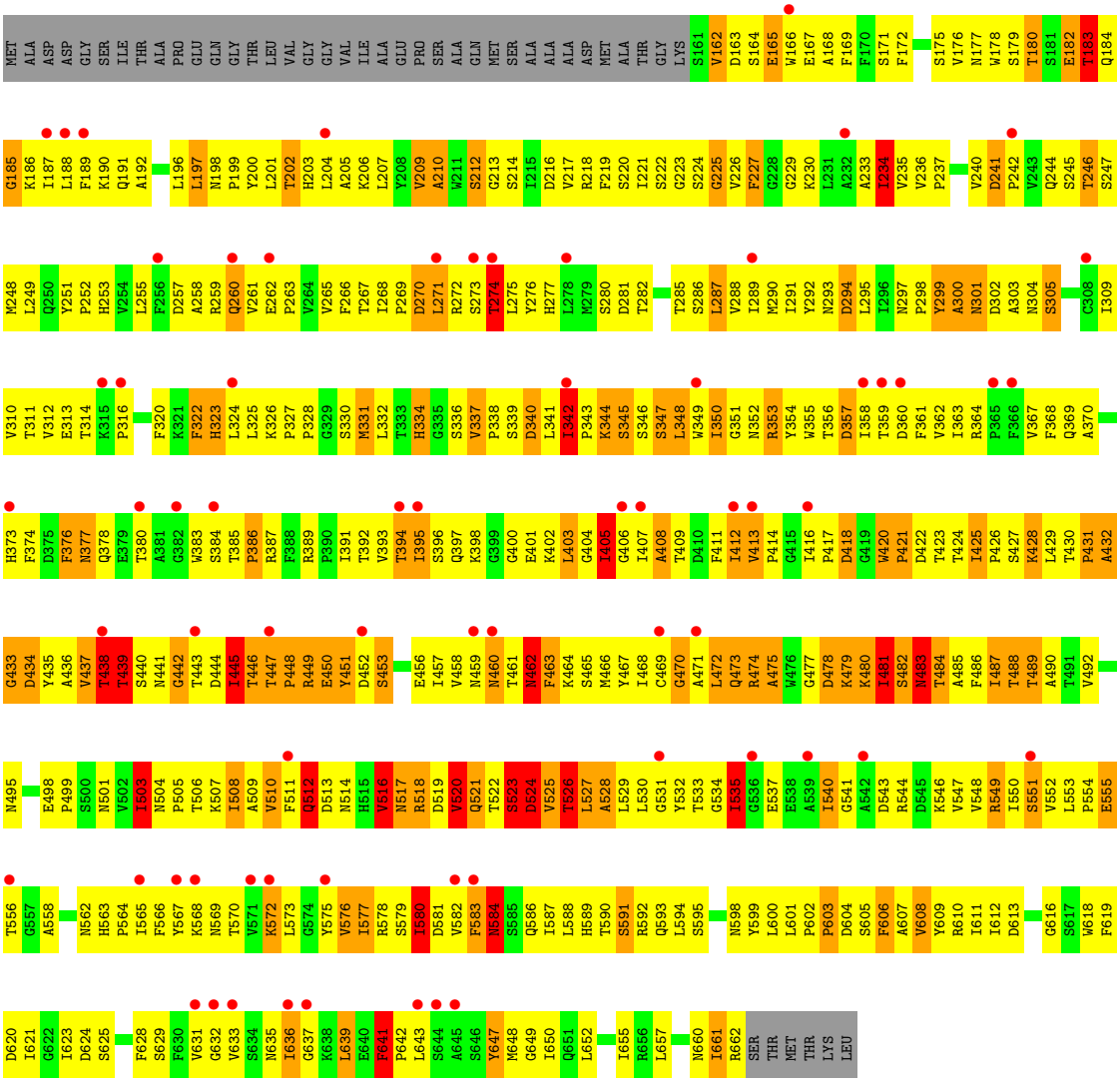
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). 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: VP1



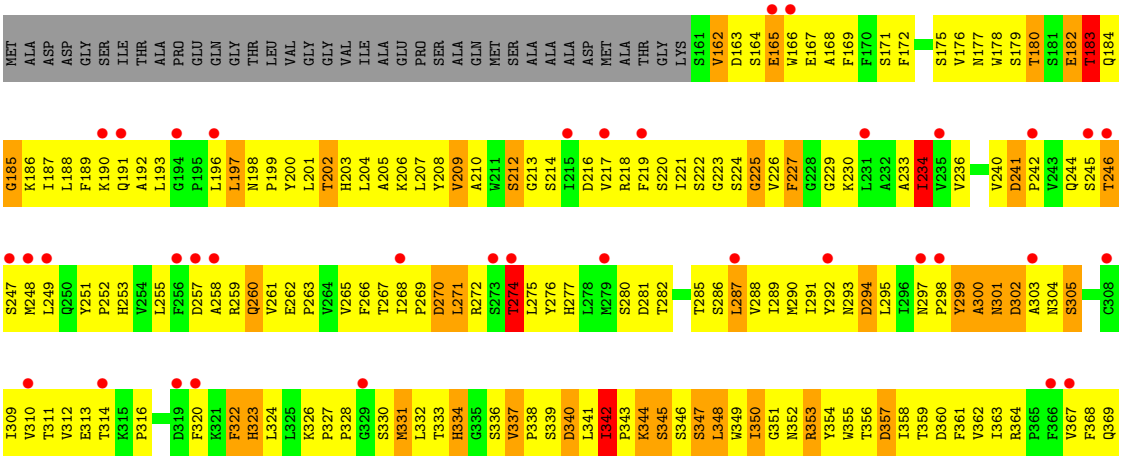
• Molecule 1: VP1

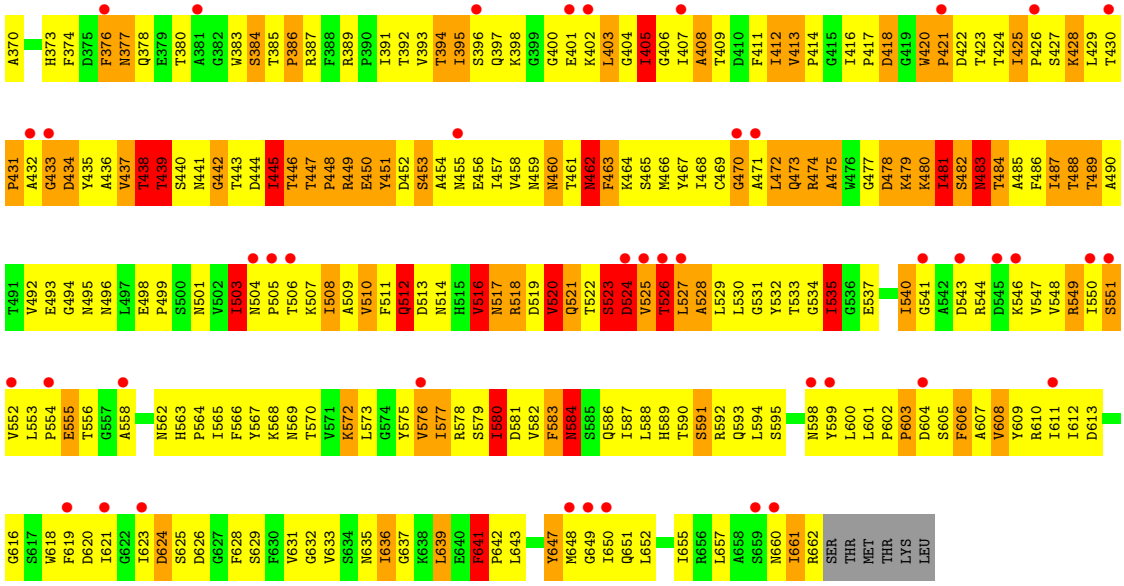




• Molecule 1: VP1

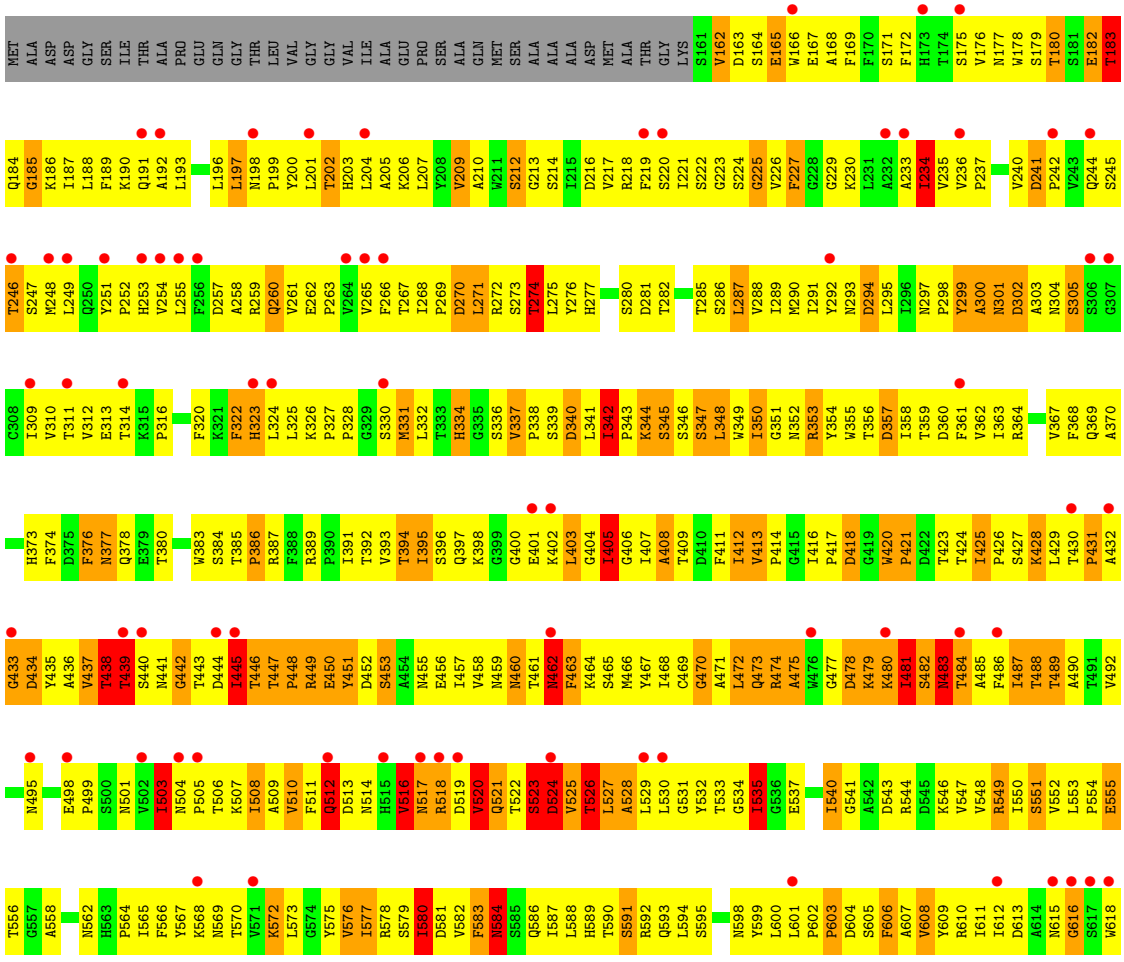
Chain C:

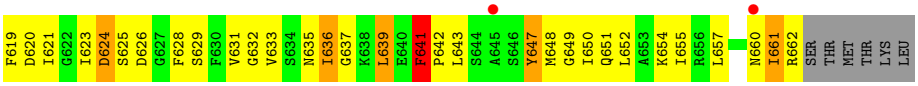




• Molecule 1: VP1

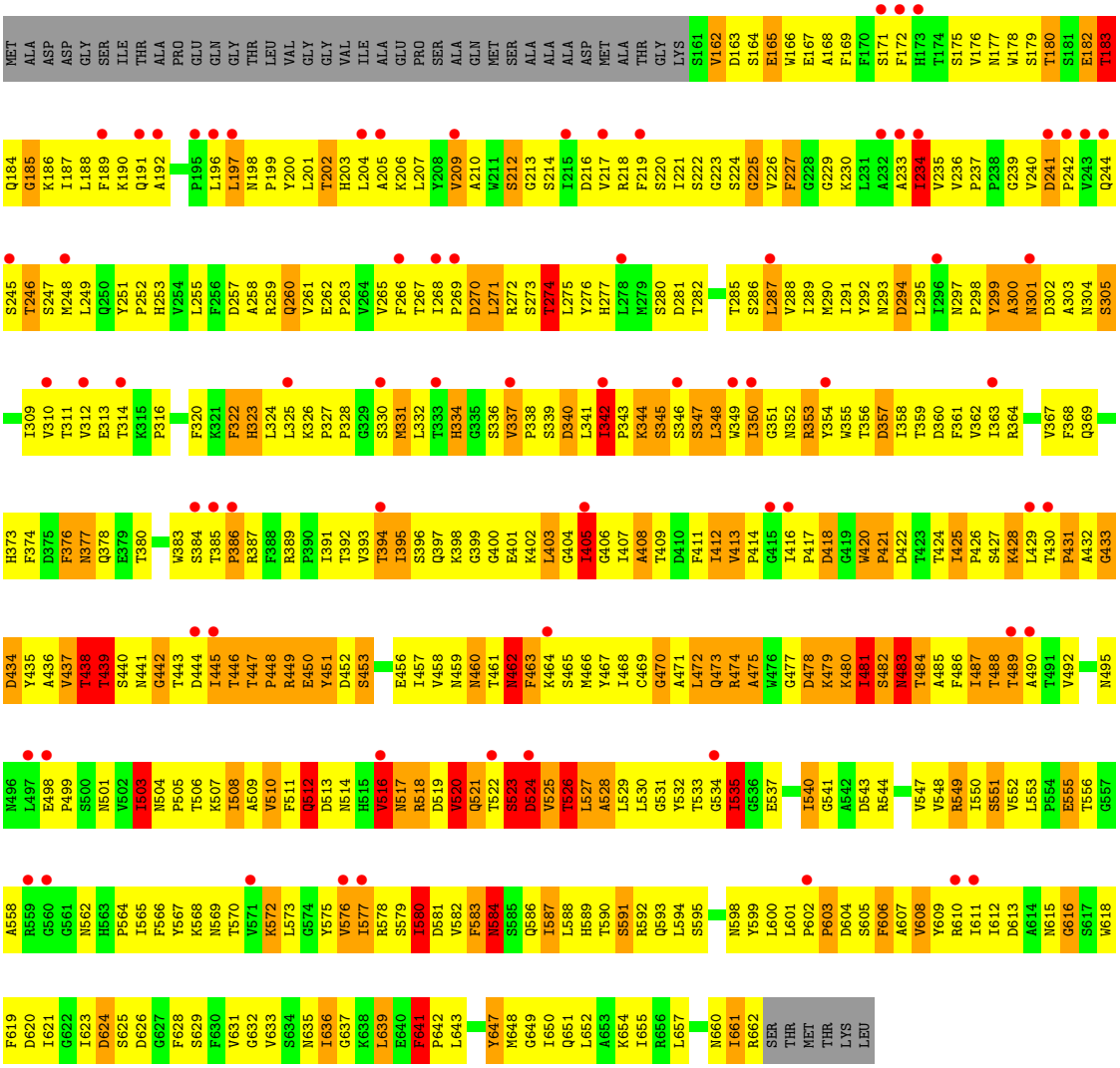
Chain D:





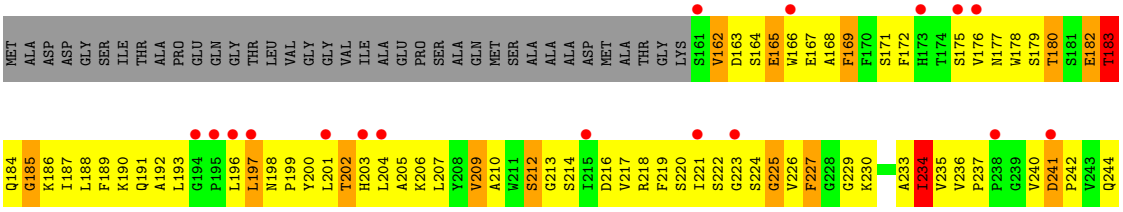
• Molecule 1: VP1

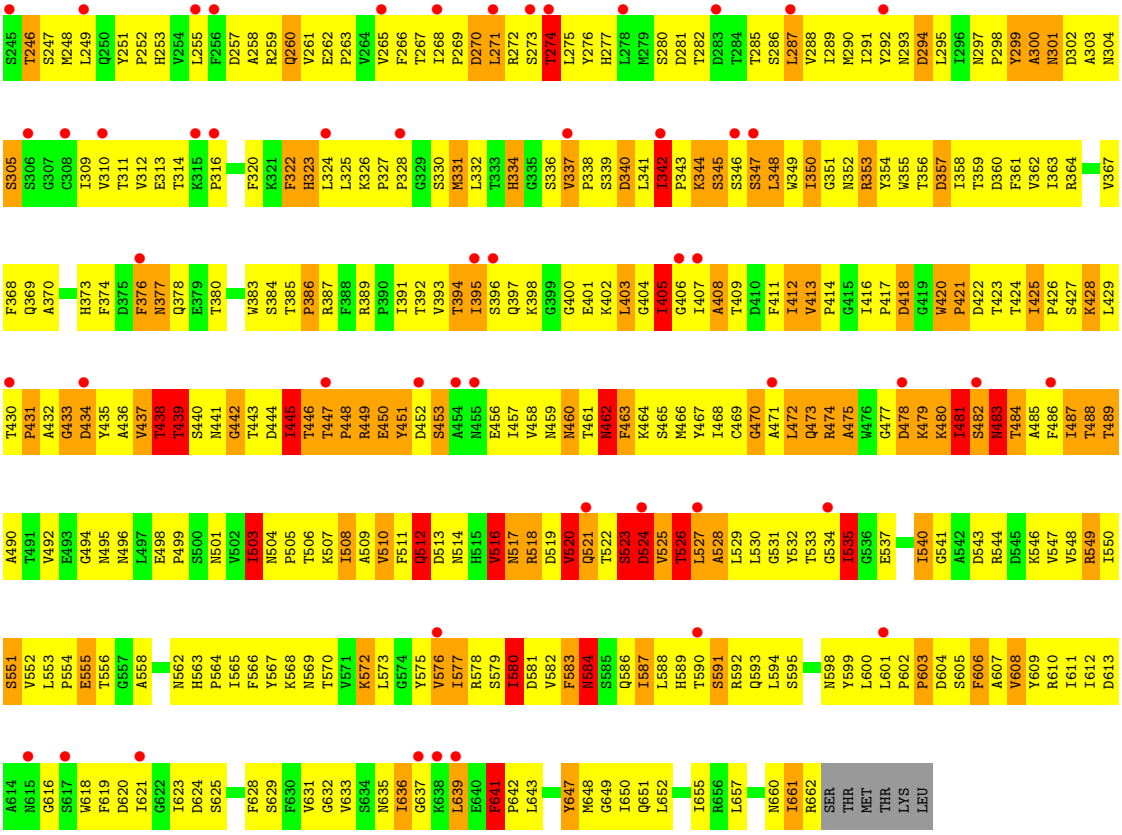
Chain E:



• Molecule 1: VP1

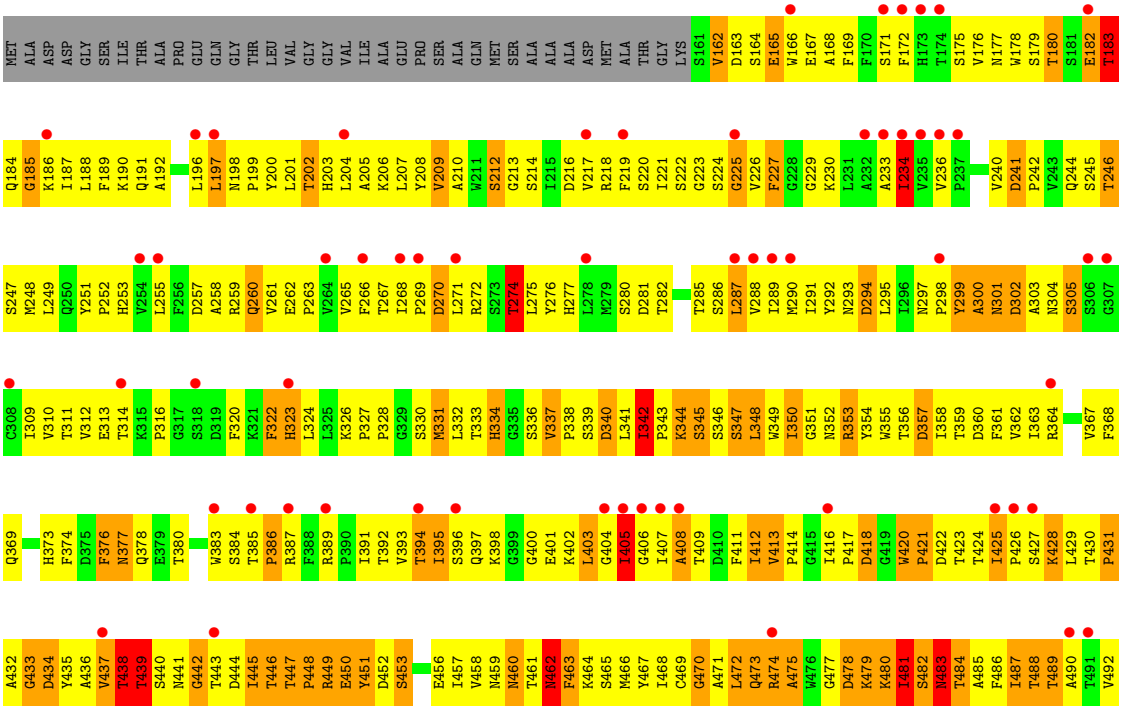
Chain F:

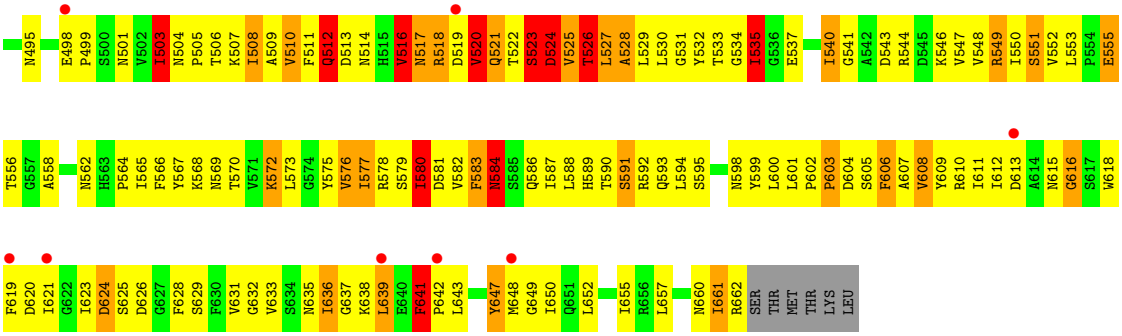




• Molecule 1: VP1

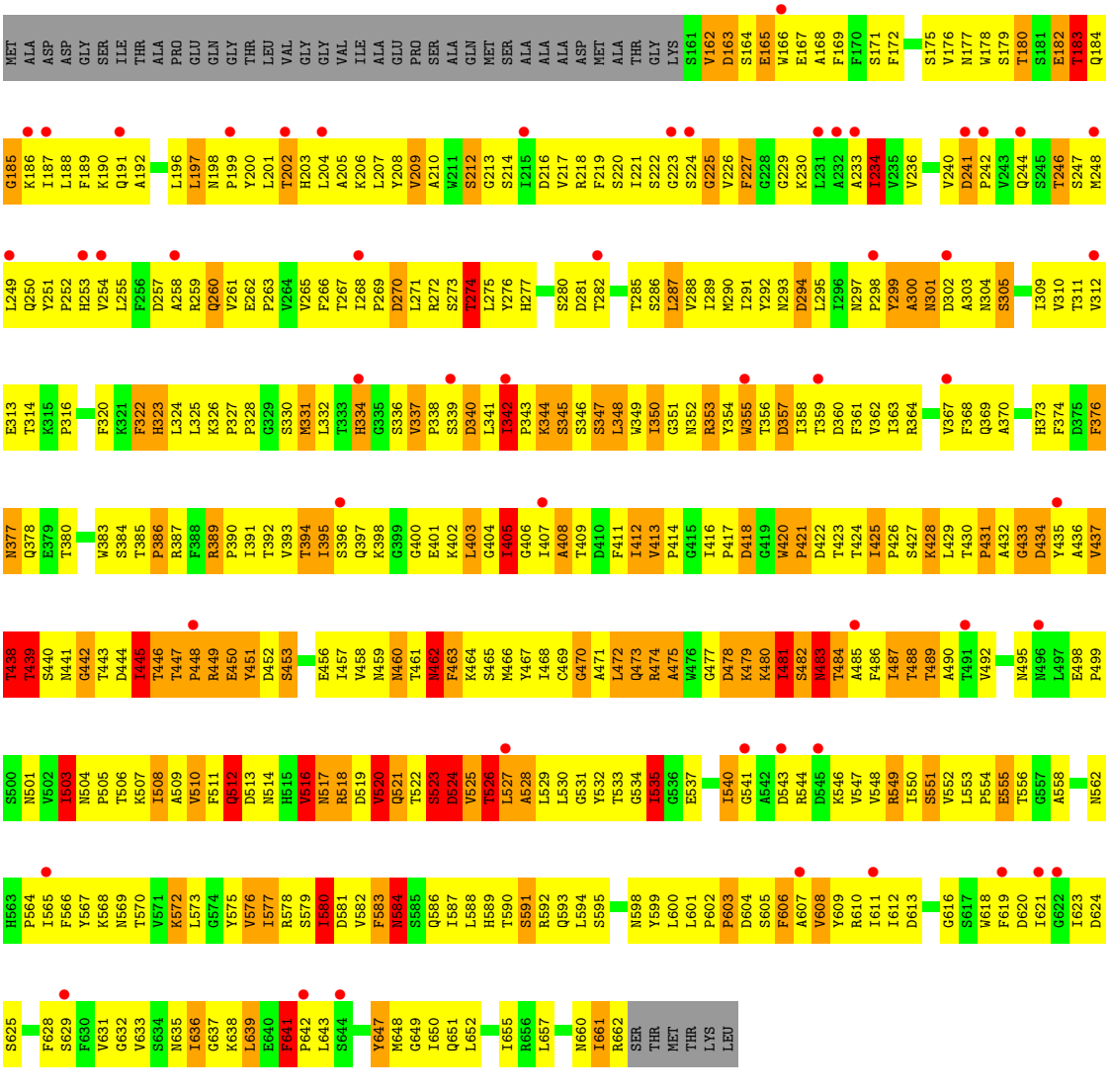
Chain G:





• Molecule 1: VP1

Chain H:



• Molecule 1: VP1

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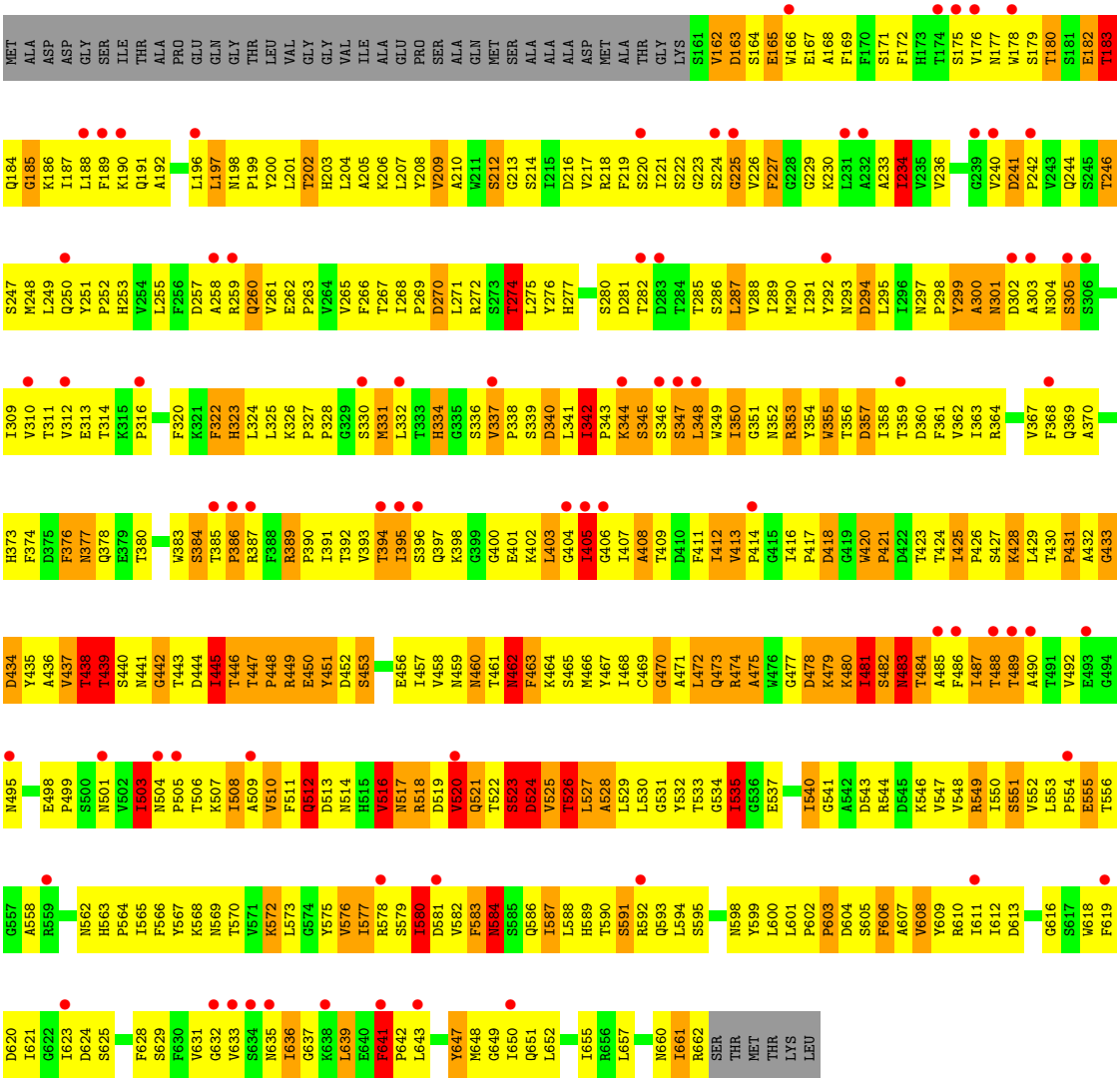
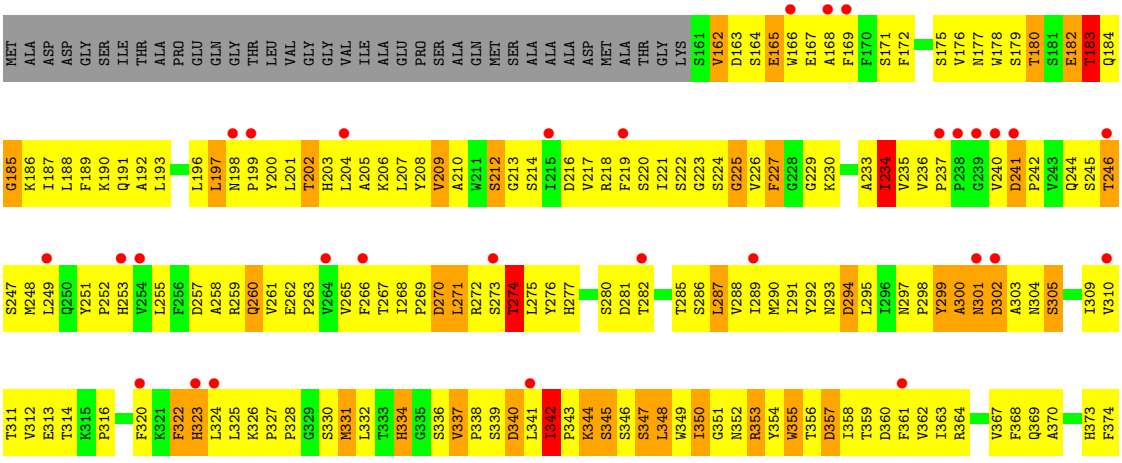
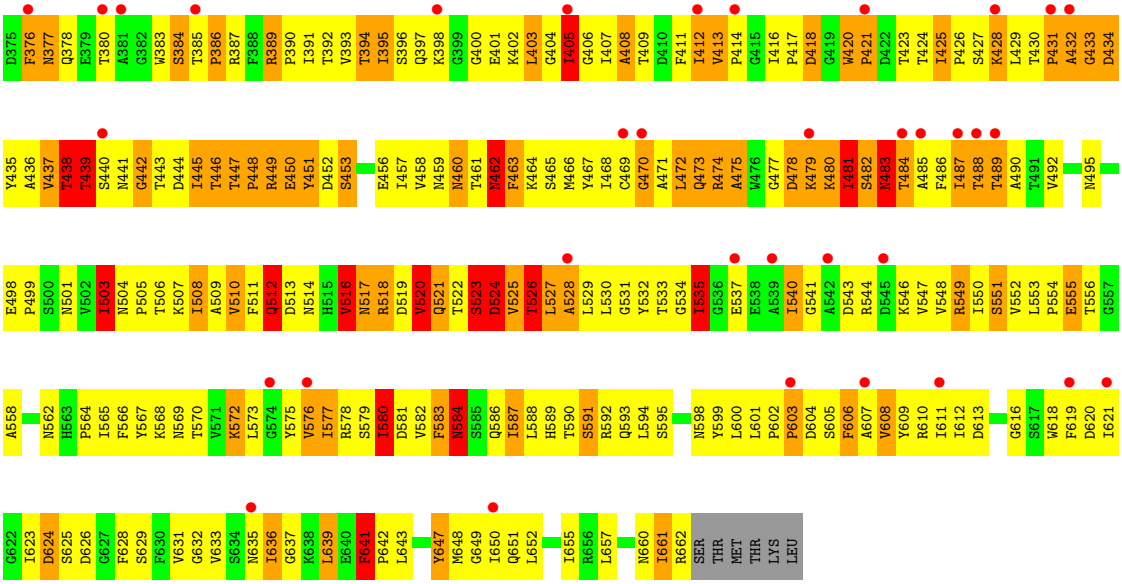


• Molecule 1: VP1

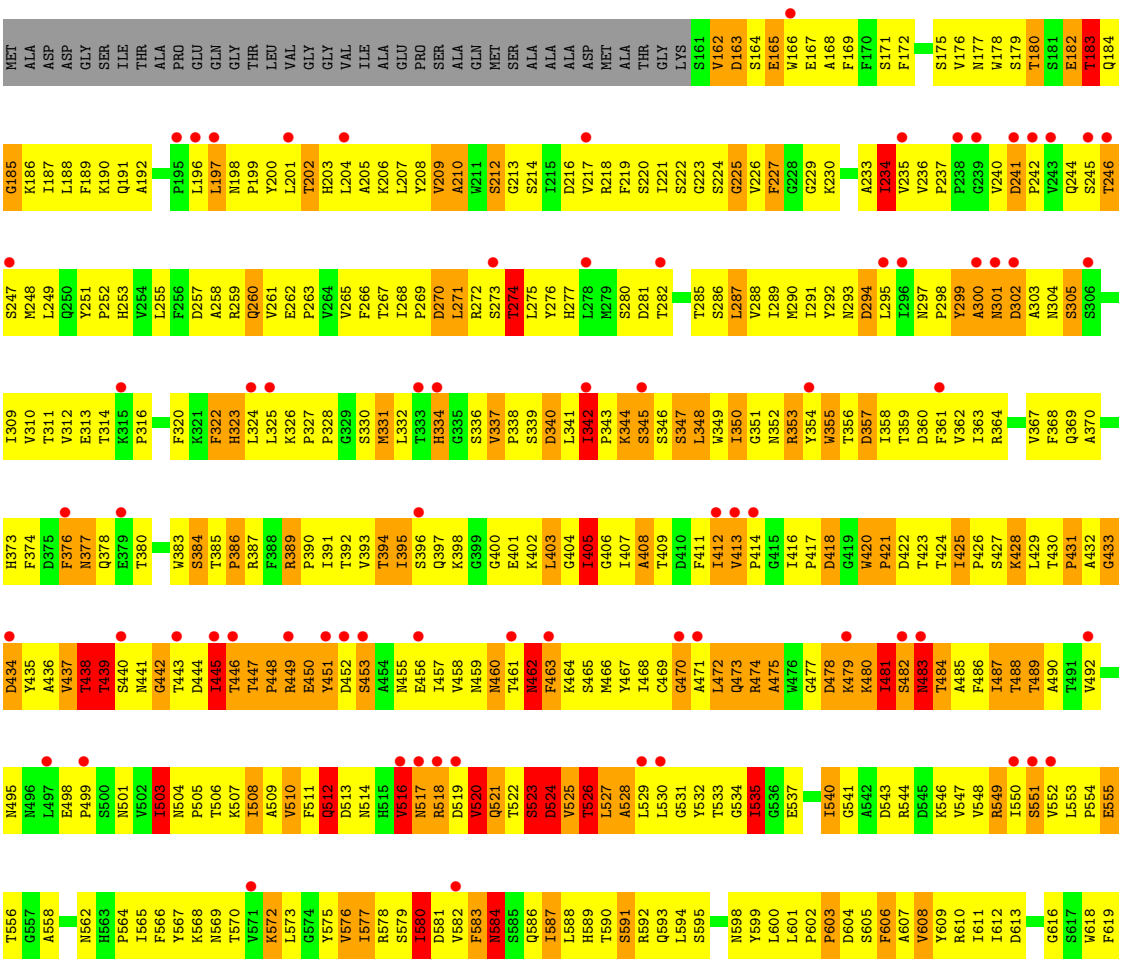
Chain J:

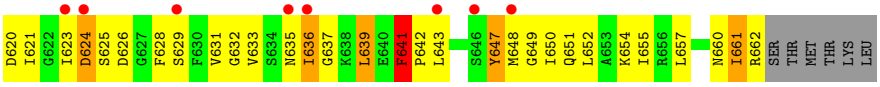




• Molecule 1: VP1

Chain K:



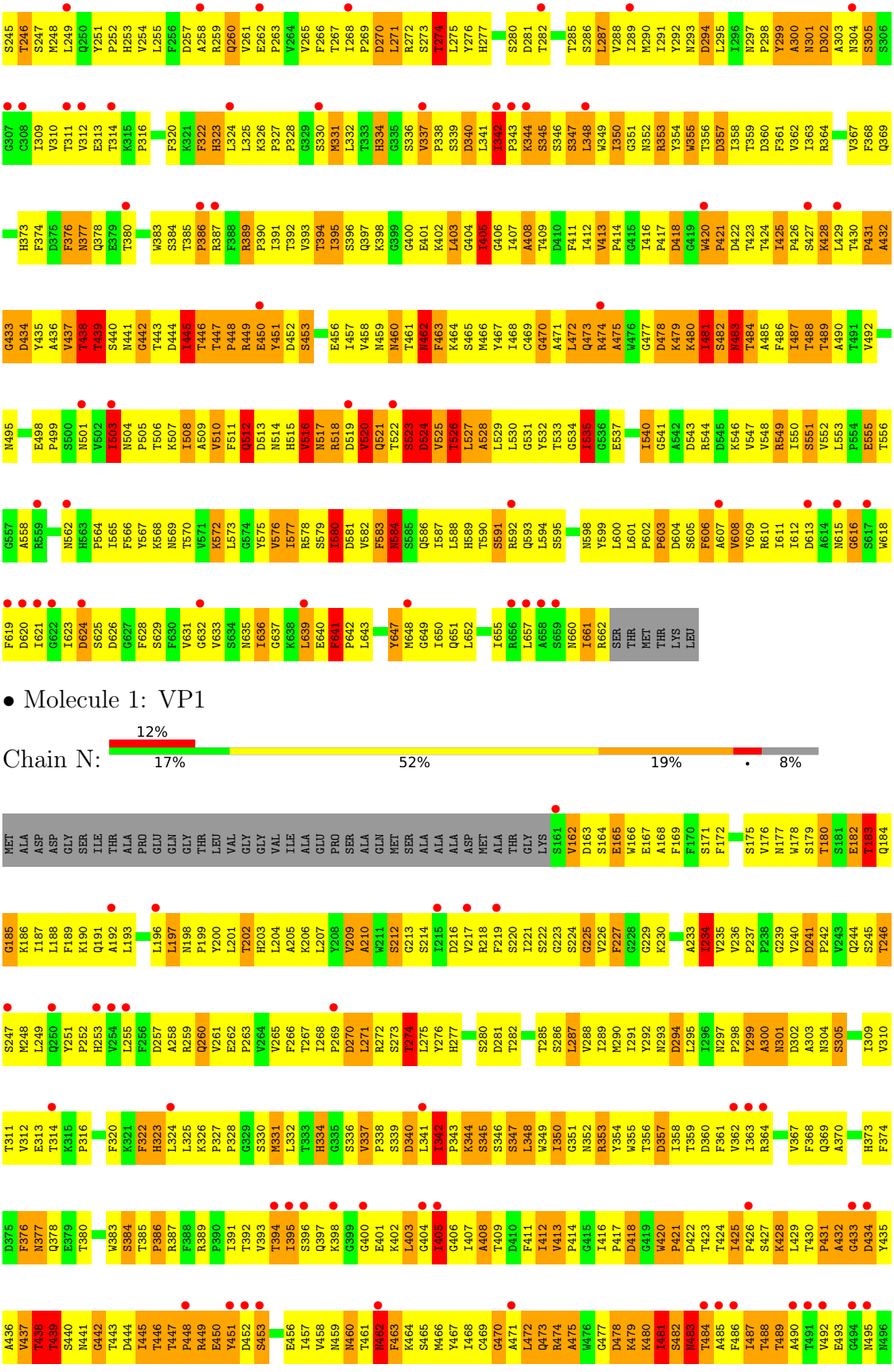


• Molecule 1: VP1

Chain L:

• Molecule 1: VP1

Chain M:



• Molecule 1: VP1

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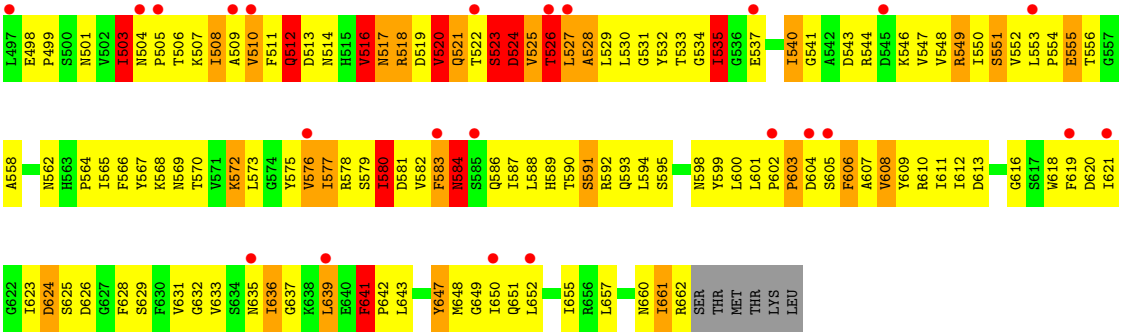
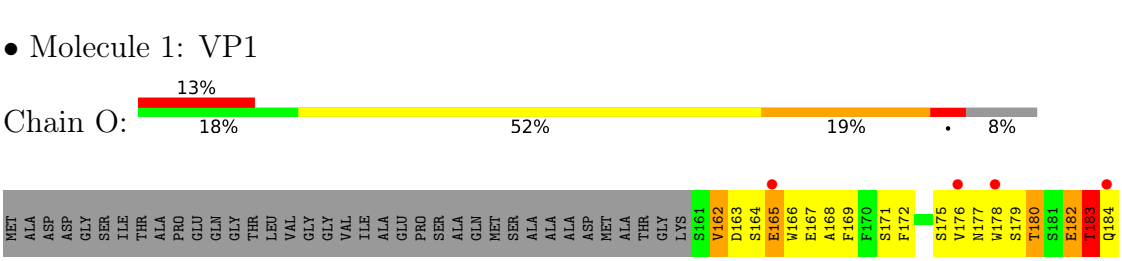
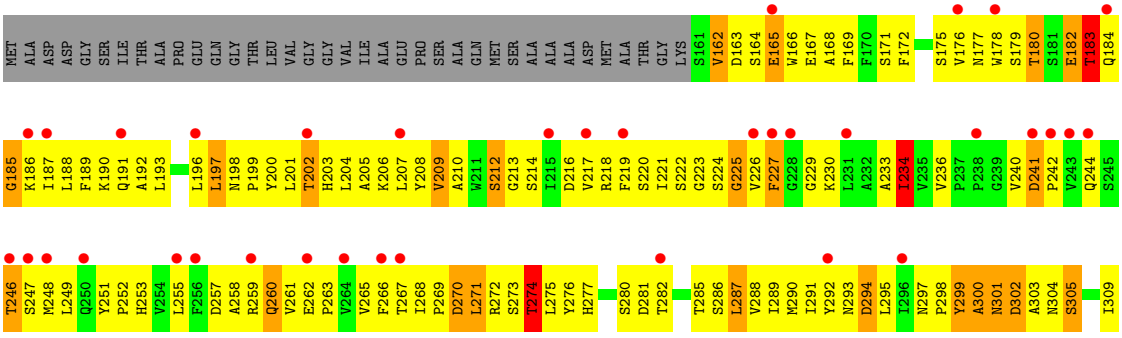
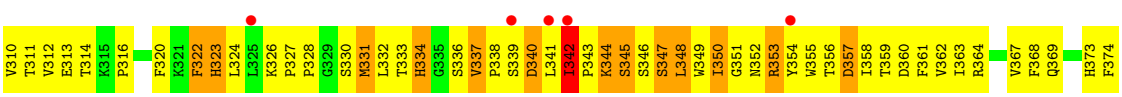


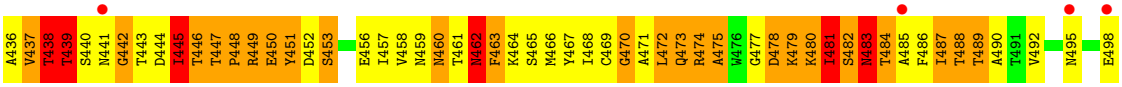


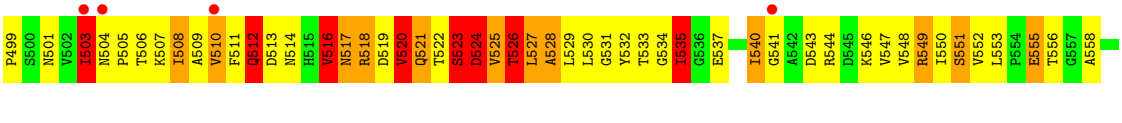


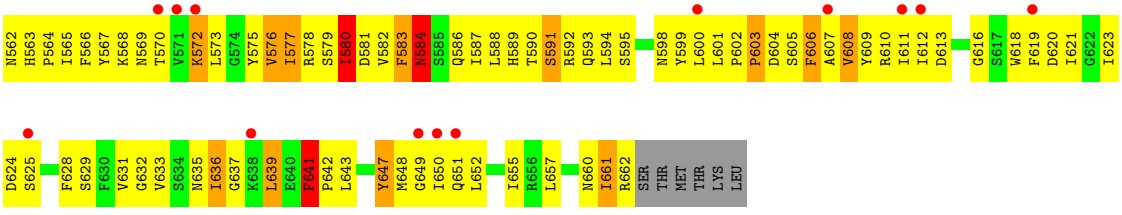
• Molecule 1: VP1

Chain O:



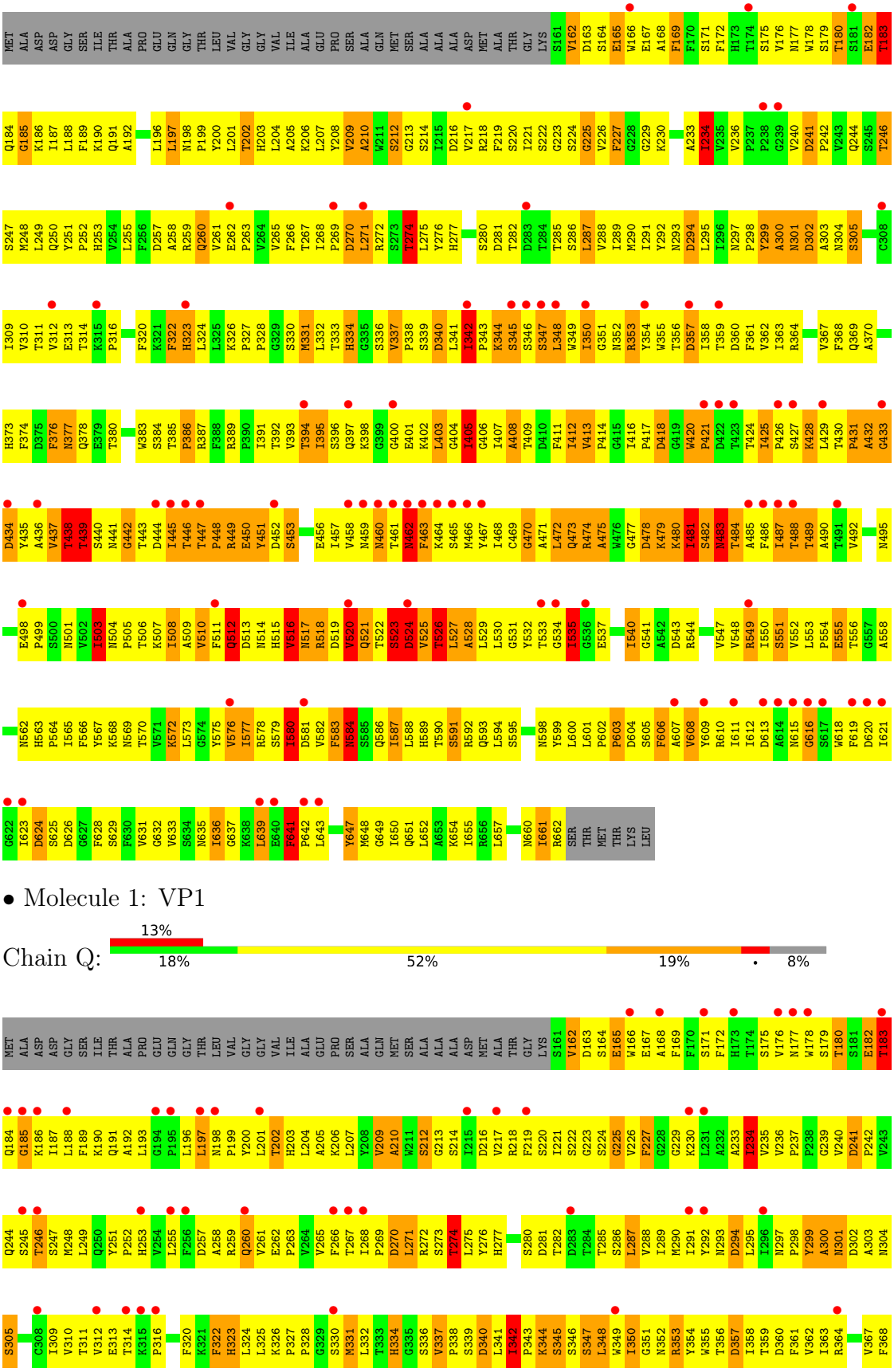






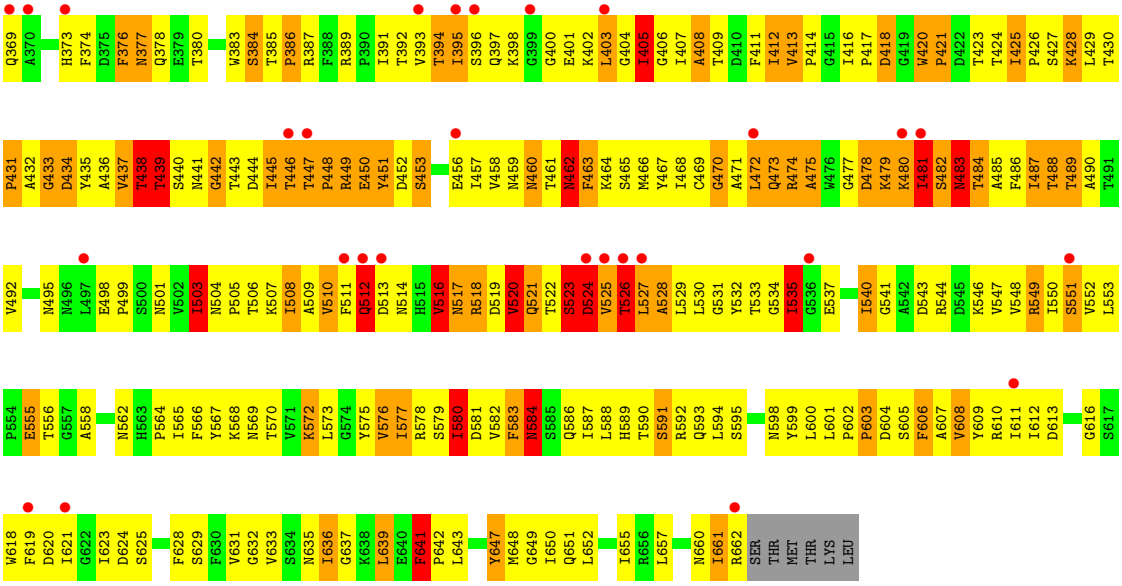
• Molecule 1: VP1

Chain P:

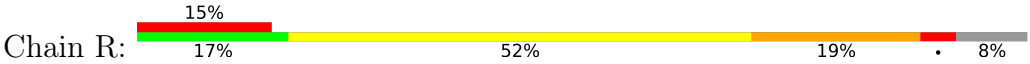


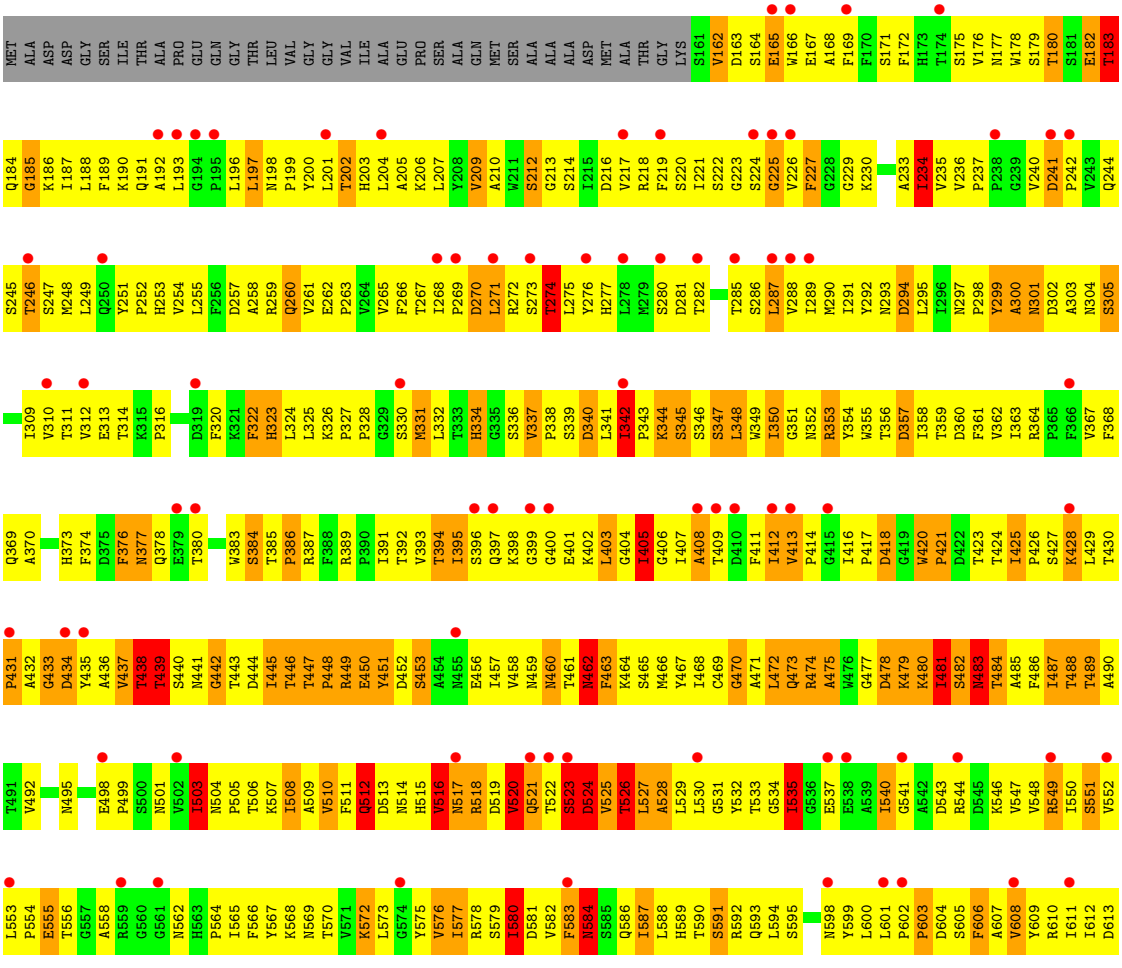
• Molecule 1: VP1

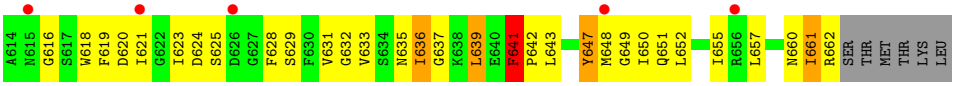
Chain Q:



• Molecule 1: VP1

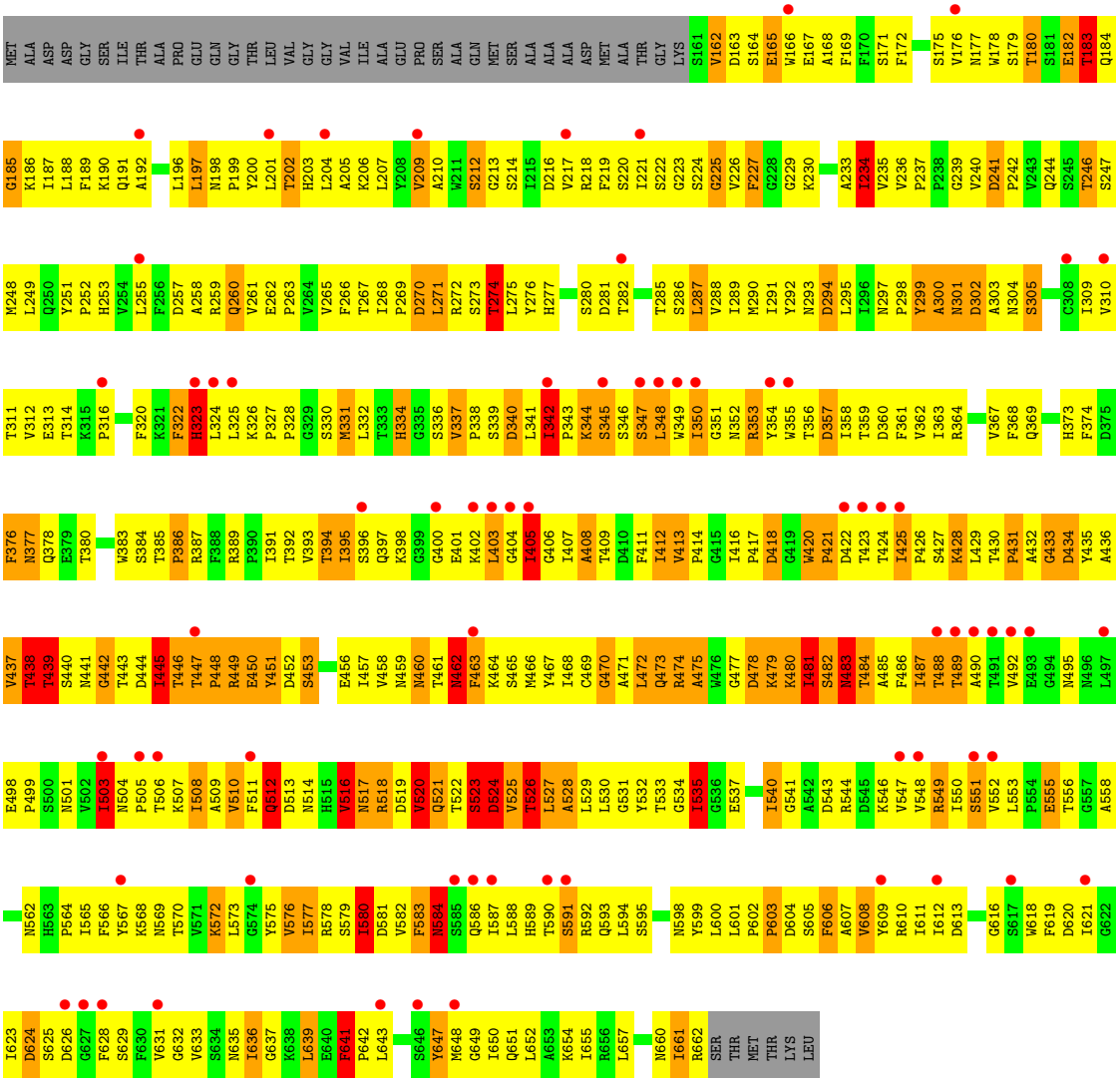






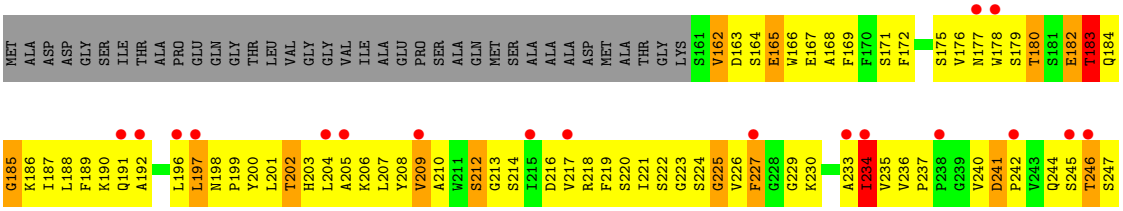
• Molecule 1: VP1

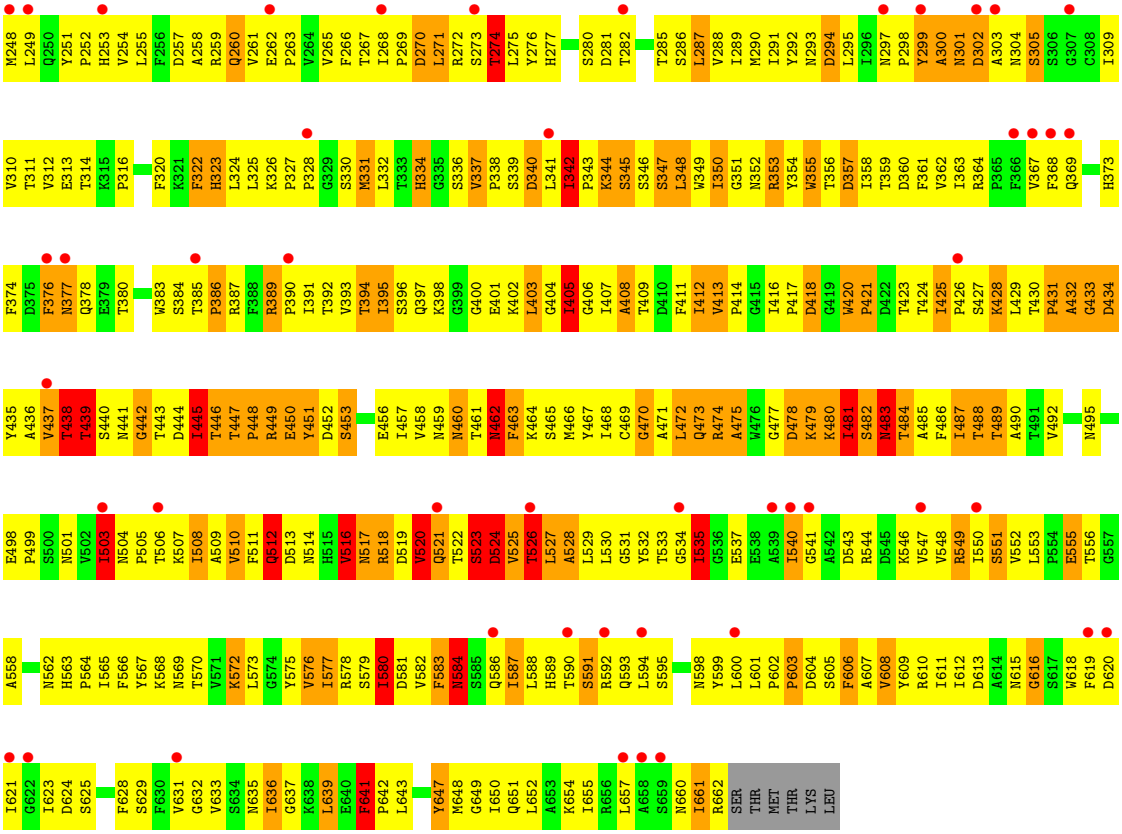
Chain S:



• Molecule 1: VP1

Chain T:




M248 L249 Q250 Y251 P252 H253 V254 L255 F256 D257 A258 R259 Q260 V261 E262 P263 V264 V265 F266 T267 I268 P269 D270 L271 R272 S273 T274 L275 Y276 H277 S280 D281 T282 T285 S286 L287 V288 I289 M290 I291 Y292 N293 D294 L295 I296 N297 P298 Y299 A300 N301 D302 A303 N304 S305 S306 G307 C308 I309
V310 T311 V312 E313 T314 K315 P316 F320 K321 F322 H323 L324 L325 K326 P327 P328 G329 S330 M331 L332 T333 H334 G335 S336 V337 P338 S339 D340 L341 I342 P343 K344 S345 S346 S347 L348 W349 I350 G351 N352 R353 Y354 W355 T356 D357 I358 T359 D360 F361 V362 I363 R364 P365 F366 V367 F368 Q369 H373
F374 D375 F376 N377 Q378 E379 T380 W383 S384 T385 P386 R387 F388 R389 P390 I391 T392 V393 T394 I395 S396 Q397 K398 G399 G400 E401 K402 L403 G404 I405 G406 I407 A408 T409 D410 F411 I412 V413 P414 G415 I416 P417 D418 G419 W420 P421 D422 T423 T424 I425 P426 S427 K428 L429 T430 P431 A432 G433 D434
Y435 A436 V437 T438 T439 S440 N441 G442 T443 D444 I445 T446 T447 P448 R449 E450 Y451 D452 S453 E456 I457 V458 N459 N460 T461 N462 F463 K464 S465 M466 Y467 I468 C469 G470 A471 L472 Q473 R474 A475 W476 G477 D478 K479 K480 I481 S482 N483 T484 A485 F486 I487 T488 T489 A490 T491 V492 N495
E498 P499 S500 N501 V502 I503 N504 P505 T506 K507 I508 A509 V510 F511 Q512 D513 N514 H515 V516 N517 R518 D519 V520 Q521 T522 S523 D524 V525 T526 L527 A528 L529 L530 G531 Y532 T533 G534 I535 G536 E537 E538 A539 I540 G541 A542 D543 R544 D545 K546 V547 V548 R549 I550 S551 V552 L553 P554 E555 T556 G557
A558 N562 H563 P564 I565 F566 Y567 K568 N569 T570 V571 K572 L573 G574 Y575 V576 I577 R578 S579 I580 D581 V582 F583 N584 S585 Q586 I587 L588 H589 T590 S591 R592 Q593 L594 S595 N598 Y599 L600 L601 P602 P603 D604 S605 F606 A607 V608 Y609 R610 I611 I612 D613 A614 N615 G616 S617 W618 F619 D620
I621 G622 I623 D624 S625 F628 S629 F630 V631 G632 V633 S634 N635 I636 G637 K638 L639 E640 F641 P642 L643 Y647 M648 G649 I650 Q651 L652 A653 K654 I655 R656 L657 A658 S659 N660 I661 R662 SER THR MET THR LYS LEU

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 3	Depositor
Cell constants a, b, c, α, β, γ	358.34Å 358.34Å 358.34Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	65.51 – 8.00 65.51 – 8.00	Depositor EDS
% Data completeness (in resolution range)	87.8 (65.51-8.00) 88.1 (65.51-8.00)	Depositor EDS
R_{merge}	0.24	Depositor
R_{sym}	0.24	Depositor
$< I/\sigma(I) >$ [1]	1.41 (at 8.38Å)	Xtriage
Refinement program	REFMAC 5.7.0029	Depositor
R, R_{free}	0.441 , 0.463 0.426 , 0.448	Depositor DCC
R_{free} test set	710 reflections (4.31%)	wwPDB-VP
Wilson B-factor (Å^2)	426.8	Xtriage
Anisotropy	0.000	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.34 , 0.0	EDS
L-test for twinning[2]	$< \|L\| > = 0.32$, $< L^2 > = 0.16$	Xtriage
Estimated twinning fraction	0.108 for l,-k,h	Xtriage
F_o,F_c correlation	0.25	EDS
Total number of atoms	77840	wwPDB-VP
Average B, all atoms (Å^2)	95.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.33% of the height of the origin peak. No significant pseudotranslation is detected.*

[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)

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	0.84	6/3991 (0.2%)	1.26	41/5446 (0.8%)
1	B	0.84	6/3991 (0.2%)	1.26	42/5446 (0.8%)
1	C	0.84	6/3991 (0.2%)	1.26	40/5446 (0.7%)
1	D	0.84	6/3991 (0.2%)	1.26	40/5446 (0.7%)
1	E	0.84	5/3991 (0.1%)	1.26	41/5446 (0.8%)
1	F	0.84	5/3991 (0.1%)	1.26	40/5446 (0.7%)
1	G	0.84	5/3991 (0.1%)	1.26	41/5446 (0.8%)
1	H	0.84	6/3991 (0.2%)	1.26	41/5446 (0.8%)
1	I	0.84	6/3991 (0.2%)	1.26	41/5446 (0.8%)
1	J	0.84	5/3991 (0.1%)	1.26	41/5446 (0.8%)
1	K	0.85	5/3991 (0.1%)	1.26	42/5446 (0.8%)
1	L	0.84	5/3991 (0.1%)	1.26	41/5446 (0.8%)
1	M	0.85	6/3991 (0.2%)	1.26	42/5446 (0.8%)
1	N	0.85	5/3991 (0.1%)	1.26	42/5446 (0.8%)
1	O	0.84	6/3991 (0.2%)	1.26	41/5446 (0.8%)
1	P	0.85	5/3991 (0.1%)	1.26	42/5446 (0.8%)
1	Q	0.84	5/3991 (0.1%)	1.26	42/5446 (0.8%)
1	R	0.84	5/3991 (0.1%)	1.26	41/5446 (0.8%)
1	S	0.84	6/3991 (0.2%)	1.26	39/5446 (0.7%)
1	T	0.84	6/3991 (0.2%)	1.26	41/5446 (0.8%)
All	All	0.84	110/79820 (0.1%)	1.26	821/108920 (0.8%)

All (110) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	520	VAL	CA-CB	7.65	1.63	1.54
1	P	520	VAL	CA-CB	7.65	1.63	1.54
1	H	520	VAL	CA-CB	7.63	1.63	1.54
1	K	520	VAL	CA-CB	7.62	1.63	1.54
1	O	520	VAL	CA-CB	7.61	1.63	1.54
1	C	520	VAL	CA-CB	7.61	1.63	1.54
1	E	520	VAL	CA-CB	7.61	1.63	1.54
1	G	520	VAL	CA-CB	7.61	1.63	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	520	VAL	CA-CB	7.60	1.63	1.54
1	M	520	VAL	CA-CB	7.59	1.63	1.54
1	Q	520	VAL	CA-CB	7.59	1.63	1.54
1	A	520	VAL	CA-CB	7.58	1.63	1.54
1	R	520	VAL	CA-CB	7.58	1.63	1.54
1	D	520	VAL	CA-CB	7.58	1.63	1.54
1	L	520	VAL	CA-CB	7.57	1.63	1.54
1	J	520	VAL	CA-CB	7.56	1.63	1.54
1	I	520	VAL	CA-CB	7.53	1.63	1.54
1	N	520	VAL	CA-CB	7.51	1.63	1.54
1	S	520	VAL	CA-CB	7.51	1.63	1.54
1	T	520	VAL	CA-CB	7.51	1.63	1.54
1	M	535	ILE	CA-CB	7.12	1.64	1.54
1	G	535	ILE	CA-CB	7.10	1.64	1.54
1	H	535	ILE	CA-CB	7.09	1.64	1.54
1	J	535	ILE	CA-CB	7.08	1.64	1.54
1	D	535	ILE	CA-CB	7.06	1.64	1.54
1	T	535	ILE	CA-CB	7.06	1.64	1.54
1	S	535	ILE	CA-CB	7.06	1.64	1.54
1	N	535	ILE	CA-CB	7.05	1.64	1.54
1	I	535	ILE	CA-CB	7.04	1.64	1.54
1	K	535	ILE	CA-CB	7.02	1.64	1.54
1	O	535	ILE	CA-CB	7.02	1.64	1.54
1	R	535	ILE	CA-CB	7.02	1.64	1.54
1	A	535	ILE	CA-CB	7.01	1.64	1.54
1	B	535	ILE	CA-CB	7.01	1.64	1.54
1	L	535	ILE	CA-CB	7.01	1.64	1.54
1	Q	535	ILE	CA-CB	7.00	1.64	1.54
1	P	535	ILE	CA-CB	6.99	1.64	1.54
1	F	535	ILE	CA-CB	6.99	1.64	1.54
1	C	535	ILE	CA-CB	6.98	1.64	1.54
1	E	535	ILE	CA-CB	6.97	1.64	1.54
1	S	162	VAL	CA-CB	6.33	1.61	1.54
1	I	162	VAL	CA-CB	6.32	1.61	1.54
1	C	162	VAL	CA-CB	6.30	1.61	1.54
1	K	162	VAL	CA-CB	6.29	1.61	1.54
1	A	162	VAL	CA-CB	6.28	1.61	1.54
1	M	162	VAL	CA-CB	6.27	1.61	1.54
1	F	162	VAL	CA-CB	6.26	1.61	1.54
1	P	162	VAL	CA-CB	6.24	1.61	1.54
1	T	162	VAL	CA-CB	6.24	1.61	1.54
1	N	162	VAL	CA-CB	6.24	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Q	162	VAL	CA-CB	6.24	1.61	1.54
1	R	162	VAL	CA-CB	6.23	1.61	1.54
1	B	162	VAL	CA-CB	6.23	1.61	1.54
1	O	162	VAL	CA-CB	6.23	1.61	1.54
1	E	162	VAL	CA-CB	6.23	1.61	1.54
1	D	162	VAL	CA-CB	6.23	1.61	1.54
1	G	162	VAL	CA-CB	6.22	1.61	1.54
1	H	162	VAL	CA-CB	6.22	1.61	1.54
1	J	162	VAL	CA-CB	6.20	1.61	1.54
1	H	274	THR	CA-CB	6.16	1.61	1.53
1	L	162	VAL	CA-CB	6.16	1.61	1.54
1	I	274	THR	CA-CB	6.16	1.61	1.53
1	J	274	THR	CA-CB	6.16	1.61	1.53
1	F	274	THR	CA-CB	6.14	1.61	1.53
1	K	274	THR	CA-CB	6.12	1.61	1.53
1	E	274	THR	CA-CB	6.12	1.61	1.53
1	N	274	THR	CA-CB	6.12	1.61	1.53
1	P	274	THR	CA-CB	6.09	1.61	1.53
1	D	274	THR	CA-CB	6.09	1.61	1.53
1	R	274	THR	CA-CB	6.08	1.61	1.53
1	Q	274	THR	CA-CB	6.08	1.61	1.53
1	G	274	THR	CA-CB	6.08	1.61	1.53
1	B	274	THR	CA-CB	6.07	1.61	1.53
1	A	274	THR	CA-CB	6.07	1.61	1.53
1	M	274	THR	CA-CB	6.07	1.61	1.53
1	T	274	THR	CA-CB	6.06	1.61	1.53
1	S	274	THR	CA-CB	6.05	1.61	1.53
1	C	274	THR	CA-CB	6.04	1.61	1.53
1	L	274	THR	CA-CB	6.03	1.61	1.53
1	O	274	THR	CA-CB	6.01	1.61	1.53
1	O	331	MET	SD-CE	5.43	1.93	1.79
1	K	331	MET	SD-CE	5.42	1.93	1.79
1	Q	331	MET	SD-CE	5.41	1.93	1.79
1	N	331	MET	SD-CE	5.41	1.93	1.79
1	H	331	MET	SD-CE	5.41	1.93	1.79
1	L	331	MET	SD-CE	5.41	1.93	1.79
1	C	331	MET	SD-CE	5.41	1.93	1.79
1	P	331	MET	SD-CE	5.40	1.93	1.79
1	T	331	MET	SD-CE	5.40	1.93	1.79
1	R	331	MET	SD-CE	5.40	1.93	1.79
1	D	331	MET	SD-CE	5.40	1.93	1.79
1	A	331	MET	SD-CE	5.39	1.93	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	331	MET	SD-CE	5.39	1.93	1.79
1	M	331	MET	SD-CE	5.39	1.93	1.79
1	I	331	MET	SD-CE	5.38	1.93	1.79
1	S	331	MET	SD-CE	5.37	1.93	1.79
1	F	331	MET	SD-CE	5.36	1.93	1.79
1	J	331	MET	SD-CE	5.36	1.93	1.79
1	E	331	MET	SD-CE	5.36	1.93	1.79
1	G	331	MET	SD-CE	5.33	1.92	1.79
1	A	445	ILE	CA-CB	5.06	1.61	1.54
1	B	445	ILE	CA-CB	5.06	1.61	1.54
1	M	445	ILE	CA-CB	5.06	1.61	1.54
1	H	445	ILE	CA-CB	5.06	1.61	1.54
1	S	445	ILE	CA-CB	5.06	1.61	1.54
1	T	445	ILE	CA-CB	5.05	1.61	1.54
1	O	445	ILE	CA-CB	5.04	1.61	1.54
1	C	445	ILE	CA-CB	5.03	1.61	1.54
1	D	445	ILE	CA-CB	5.02	1.61	1.54
1	I	445	ILE	CA-CB	5.01	1.61	1.54

All (821) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	512	GLN	N-CA-C	11.68	123.17	108.45
1	T	512	GLN	N-CA-C	11.66	123.15	108.45
1	L	512	GLN	N-CA-C	11.64	123.12	108.45
1	S	512	GLN	N-CA-C	11.64	123.12	108.45
1	F	512	GLN	N-CA-C	11.64	123.12	108.45
1	G	512	GLN	N-CA-C	11.63	123.11	108.45
1	O	512	GLN	N-CA-C	11.62	123.10	108.45
1	P	512	GLN	N-CA-C	11.62	123.09	108.45
1	D	512	GLN	N-CA-C	11.62	123.09	108.45
1	A	512	GLN	N-CA-C	11.62	123.09	108.45
1	C	512	GLN	N-CA-C	11.62	123.09	108.45
1	K	512	GLN	N-CA-C	11.62	123.09	108.45
1	R	512	GLN	N-CA-C	11.62	123.08	108.45
1	J	512	GLN	N-CA-C	11.61	123.08	108.45
1	Q	512	GLN	N-CA-C	11.61	123.08	108.45
1	I	512	GLN	N-CA-C	11.59	123.06	108.45
1	B	512	GLN	N-CA-C	11.59	123.06	108.45
1	M	512	GLN	N-CA-C	11.59	123.05	108.45
1	N	512	GLN	N-CA-C	11.57	123.03	108.45
1	H	512	GLN	N-CA-C	11.56	123.01	108.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	446	THR	N-CA-C	-10.91	99.63	113.16
1	F	446	THR	N-CA-C	-10.88	99.67	113.16
1	C	446	THR	N-CA-C	-10.88	99.67	113.16
1	J	446	THR	N-CA-C	-10.85	99.70	113.16
1	E	446	THR	N-CA-C	-10.85	99.71	113.16
1	H	446	THR	N-CA-C	-10.85	99.71	113.16
1	M	446	THR	N-CA-C	-10.85	99.71	113.16
1	S	446	THR	N-CA-C	-10.84	99.72	113.16
1	K	446	THR	N-CA-C	-10.84	99.72	113.16
1	R	446	THR	N-CA-C	-10.83	99.73	113.16
1	T	446	THR	N-CA-C	-10.83	99.73	113.16
1	A	446	THR	N-CA-C	-10.82	99.74	113.16
1	D	446	THR	N-CA-C	-10.82	99.74	113.16
1	P	446	THR	N-CA-C	-10.82	99.75	113.16
1	L	446	THR	N-CA-C	-10.81	99.75	113.16
1	N	446	THR	N-CA-C	-10.81	99.76	113.16
1	B	446	THR	N-CA-C	-10.80	99.77	113.16
1	Q	446	THR	N-CA-C	-10.79	99.78	113.16
1	I	446	THR	N-CA-C	-10.79	99.78	113.16
1	G	446	THR	N-CA-C	-10.77	99.80	113.16
1	K	451	TYR	CB-CA-C	-9.28	92.56	110.65
1	N	451	TYR	CB-CA-C	-9.26	92.60	110.65
1	C	451	TYR	CB-CA-C	-9.25	92.60	110.65
1	F	451	TYR	CB-CA-C	-9.25	92.62	110.65
1	I	451	TYR	CB-CA-C	-9.24	92.64	110.65
1	R	451	TYR	CB-CA-C	-9.24	92.64	110.65
1	O	451	TYR	CB-CA-C	-9.23	92.64	110.65
1	E	451	TYR	CB-CA-C	-9.23	92.65	110.65
1	T	451	TYR	CB-CA-C	-9.23	92.65	110.65
1	L	451	TYR	CB-CA-C	-9.23	92.66	110.65
1	B	451	TYR	CB-CA-C	-9.22	92.66	110.65
1	D	451	TYR	CB-CA-C	-9.22	92.66	110.65
1	G	451	TYR	CB-CA-C	-9.22	92.67	110.65
1	P	451	TYR	CB-CA-C	-9.22	92.67	110.65
1	A	451	TYR	CB-CA-C	-9.22	92.67	110.65
1	M	451	TYR	CB-CA-C	-9.22	92.67	110.65
1	S	451	TYR	CB-CA-C	-9.22	92.67	110.65
1	H	451	TYR	CB-CA-C	-9.21	92.69	110.65
1	Q	451	TYR	CB-CA-C	-9.21	92.69	110.65
1	J	451	TYR	CB-CA-C	-9.21	92.69	110.65
1	I	478	ASP	N-CA-C	8.62	119.31	108.19
1	F	478	ASP	N-CA-C	8.60	119.28	108.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	478	ASP	N-CA-C	8.60	119.28	108.19
1	B	478	ASP	N-CA-C	8.58	119.26	108.19
1	S	478	ASP	N-CA-C	8.57	119.25	108.19
1	E	478	ASP	N-CA-C	8.57	119.25	108.19
1	D	478	ASP	N-CA-C	8.57	119.24	108.19
1	K	478	ASP	N-CA-C	8.56	119.24	108.19
1	Q	478	ASP	N-CA-C	8.56	119.24	108.19
1	A	478	ASP	N-CA-C	8.56	119.23	108.19
1	J	478	ASP	N-CA-C	8.56	119.23	108.19
1	M	478	ASP	N-CA-C	8.55	119.22	108.19
1	G	478	ASP	N-CA-C	8.55	119.22	108.19
1	R	478	ASP	N-CA-C	8.55	119.22	108.19
1	T	478	ASP	N-CA-C	8.55	119.22	108.19
1	P	478	ASP	N-CA-C	8.55	119.22	108.19
1	L	478	ASP	N-CA-C	8.54	119.21	108.19
1	N	478	ASP	N-CA-C	8.54	119.21	108.19
1	H	478	ASP	N-CA-C	8.53	119.19	108.19
1	C	478	ASP	N-CA-C	8.52	119.18	108.19
1	S	389	ARG	CA-C-N	8.48	128.54	119.89
1	S	389	ARG	C-N-CA	8.48	128.54	119.89
1	K	389	ARG	CA-C-N	8.47	128.53	119.89
1	K	389	ARG	C-N-CA	8.47	128.53	119.89
1	D	389	ARG	CA-C-N	8.46	128.52	119.89
1	D	389	ARG	C-N-CA	8.46	128.52	119.89
1	O	389	ARG	CA-C-N	8.46	128.51	119.89
1	O	389	ARG	C-N-CA	8.46	128.51	119.89
1	E	389	ARG	CA-C-N	8.45	128.51	119.89
1	E	389	ARG	C-N-CA	8.45	128.51	119.89
1	B	389	ARG	CA-C-N	8.45	128.50	119.89
1	B	389	ARG	C-N-CA	8.45	128.50	119.89
1	J	389	ARG	CA-C-N	8.44	128.50	119.89
1	J	389	ARG	C-N-CA	8.44	128.50	119.89
1	P	389	ARG	CA-C-N	8.43	128.49	119.89
1	P	389	ARG	C-N-CA	8.43	128.49	119.89
1	G	389	ARG	CA-C-N	8.43	128.49	119.89
1	G	389	ARG	C-N-CA	8.43	128.49	119.89
1	L	389	ARG	CA-C-N	8.43	128.49	119.89
1	L	389	ARG	C-N-CA	8.43	128.49	119.89
1	R	389	ARG	CA-C-N	8.42	128.48	119.89
1	R	389	ARG	C-N-CA	8.42	128.48	119.89
1	A	389	ARG	CA-C-N	8.42	128.48	119.89
1	A	389	ARG	C-N-CA	8.42	128.48	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	389	ARG	CA-C-N	8.42	128.48	119.89
1	Q	389	ARG	C-N-CA	8.42	128.48	119.89
1	H	389	ARG	CA-C-N	8.41	128.47	119.89
1	H	389	ARG	C-N-CA	8.41	128.47	119.89
1	T	389	ARG	CA-C-N	8.41	128.47	119.89
1	T	389	ARG	C-N-CA	8.41	128.47	119.89
1	F	389	ARG	CA-C-N	8.39	128.45	119.89
1	F	389	ARG	C-N-CA	8.39	128.45	119.89
1	I	389	ARG	CA-C-N	8.39	128.45	119.89
1	I	389	ARG	C-N-CA	8.39	128.45	119.89
1	M	389	ARG	CA-C-N	8.39	128.45	119.89
1	M	389	ARG	C-N-CA	8.39	128.45	119.89
1	C	389	ARG	CA-C-N	8.38	128.44	119.89
1	C	389	ARG	C-N-CA	8.38	128.44	119.89
1	N	389	ARG	CA-C-N	8.37	128.43	119.89
1	N	389	ARG	C-N-CA	8.37	128.43	119.89
1	G	487	ILE	N-CA-C	8.24	118.88	108.82
1	C	487	ILE	N-CA-C	8.21	118.84	108.82
1	S	487	ILE	N-CA-C	8.21	118.83	108.82
1	E	487	ILE	N-CA-C	8.20	118.82	108.82
1	B	487	ILE	N-CA-C	8.19	118.81	108.82
1	D	487	ILE	N-CA-C	8.19	118.81	108.82
1	R	487	ILE	N-CA-C	8.18	118.80	108.82
1	L	487	ILE	N-CA-C	8.17	118.79	108.82
1	H	487	ILE	N-CA-C	8.16	118.78	108.82
1	J	487	ILE	N-CA-C	8.16	118.78	108.82
1	O	487	ILE	N-CA-C	8.16	118.78	108.82
1	P	487	ILE	N-CA-C	8.16	118.78	108.82
1	Q	487	ILE	N-CA-C	8.16	118.77	108.82
1	T	487	ILE	N-CA-C	8.16	118.78	108.82
1	K	487	ILE	N-CA-C	8.15	118.77	108.82
1	A	487	ILE	N-CA-C	8.15	118.76	108.82
1	O	442	GLY	N-CA-C	-8.13	103.20	114.67
1	I	487	ILE	N-CA-C	8.12	118.73	108.82
1	N	487	ILE	N-CA-C	8.12	118.73	108.82
1	D	442	GLY	N-CA-C	-8.12	103.23	114.67
1	B	442	GLY	N-CA-C	-8.11	103.23	114.67
1	F	487	ILE	N-CA-C	8.11	118.71	108.82
1	H	442	GLY	N-CA-C	-8.11	103.24	114.67
1	J	442	GLY	N-CA-C	-8.11	103.24	114.67
1	M	487	ILE	N-CA-C	8.11	118.71	108.82
1	R	442	GLY	N-CA-C	-8.11	103.23	114.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	442	GLY	N-CA-C	-8.11	103.24	114.67
1	Q	442	GLY	N-CA-C	-8.11	103.24	114.67
1	E	442	GLY	N-CA-C	-8.10	103.25	114.67
1	K	442	GLY	N-CA-C	-8.10	103.25	114.67
1	A	442	GLY	N-CA-C	-8.10	103.25	114.67
1	G	442	GLY	N-CA-C	-8.10	103.26	114.67
1	L	442	GLY	N-CA-C	-8.10	103.26	114.67
1	I	442	GLY	N-CA-C	-8.09	103.26	114.67
1	N	442	GLY	N-CA-C	-8.09	103.27	114.67
1	P	442	GLY	N-CA-C	-8.08	103.27	114.67
1	S	442	GLY	N-CA-C	-8.08	103.28	114.67
1	T	442	GLY	N-CA-C	-8.08	103.28	114.67
1	C	442	GLY	N-CA-C	-8.07	103.28	114.67
1	F	442	GLY	N-CA-C	-8.06	103.31	114.67
1	B	531	GLY	N-CA-C	7.79	122.02	111.20
1	T	531	GLY	N-CA-C	7.77	122.00	111.20
1	N	531	GLY	N-CA-C	7.76	121.99	111.20
1	D	531	GLY	N-CA-C	7.76	121.99	111.20
1	K	531	GLY	N-CA-C	7.76	121.98	111.20
1	R	531	GLY	N-CA-C	7.74	121.96	111.20
1	C	531	GLY	N-CA-C	7.74	121.95	111.20
1	H	531	GLY	N-CA-C	7.74	121.95	111.20
1	G	531	GLY	N-CA-C	7.73	121.95	111.20
1	A	531	GLY	N-CA-C	7.73	121.94	111.20
1	F	531	GLY	N-CA-C	7.73	121.94	111.20
1	J	531	GLY	N-CA-C	7.73	121.94	111.20
1	P	531	GLY	N-CA-C	7.72	121.93	111.20
1	I	531	GLY	N-CA-C	7.72	121.93	111.20
1	Q	517	ASN	N-CA-C	7.72	122.38	113.19
1	M	531	GLY	N-CA-C	7.71	121.92	111.20
1	L	531	GLY	N-CA-C	7.71	121.92	111.20
1	E	531	GLY	N-CA-C	7.71	121.92	111.20
1	O	531	GLY	N-CA-C	7.71	121.92	111.20
1	Q	531	GLY	N-CA-C	7.70	121.90	111.20
1	T	517	ASN	N-CA-C	7.69	122.34	113.19
1	E	517	ASN	N-CA-C	7.69	122.34	113.19
1	L	517	ASN	N-CA-C	7.67	122.31	113.19
1	O	517	ASN	N-CA-C	7.66	122.30	113.19
1	S	531	GLY	N-CA-C	7.65	121.84	111.20
1	K	517	ASN	N-CA-C	7.65	122.29	113.19
1	G	517	ASN	N-CA-C	7.65	122.29	113.19
1	N	517	ASN	N-CA-C	7.64	122.29	113.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	517	ASN	N-CA-C	7.63	122.27	113.19
1	C	517	ASN	N-CA-C	7.63	122.27	113.19
1	P	517	ASN	N-CA-C	7.63	122.27	113.19
1	M	517	ASN	N-CA-C	7.63	122.27	113.19
1	J	517	ASN	N-CA-C	7.62	122.26	113.19
1	D	517	ASN	N-CA-C	7.62	122.26	113.19
1	A	517	ASN	N-CA-C	7.61	122.25	113.19
1	F	517	ASN	N-CA-C	7.60	122.24	113.19
1	S	517	ASN	N-CA-C	7.60	122.24	113.19
1	I	517	ASN	N-CA-C	7.59	122.23	113.19
1	R	517	ASN	N-CA-C	7.58	122.22	113.19
1	H	517	ASN	N-CA-C	7.58	122.21	113.19
1	M	480	LYS	N-CA-C	7.39	126.54	110.80
1	H	480	LYS	N-CA-C	7.39	126.54	110.80
1	L	480	LYS	N-CA-C	7.39	126.53	110.80
1	P	480	LYS	N-CA-C	7.38	126.53	110.80
1	O	480	LYS	N-CA-C	7.38	126.51	110.80
1	A	480	LYS	N-CA-C	7.37	126.50	110.80
1	C	480	LYS	N-CA-C	7.37	126.51	110.80
1	K	480	LYS	N-CA-C	7.37	126.51	110.80
1	R	480	LYS	N-CA-C	7.37	126.50	110.80
1	J	480	LYS	N-CA-C	7.37	126.50	110.80
1	E	480	LYS	N-CA-C	7.37	126.49	110.80
1	T	480	LYS	N-CA-C	7.37	126.49	110.80
1	D	480	LYS	N-CA-C	7.36	126.49	110.80
1	B	480	LYS	N-CA-C	7.36	126.48	110.80
1	N	480	LYS	N-CA-C	7.36	126.47	110.80
1	Q	480	LYS	N-CA-C	7.36	126.47	110.80
1	S	480	LYS	N-CA-C	7.36	126.47	110.80
1	I	480	LYS	N-CA-C	7.35	126.46	110.80
1	F	480	LYS	N-CA-C	7.35	126.45	110.80
1	T	439	THR	N-CA-C	7.34	126.43	110.80
1	G	480	LYS	N-CA-C	7.33	126.42	110.80
1	P	439	THR	N-CA-C	7.32	126.39	110.80
1	F	439	THR	N-CA-C	7.32	126.38	110.80
1	B	439	THR	N-CA-C	7.31	126.38	110.80
1	L	439	THR	N-CA-C	7.31	126.38	110.80
1	M	439	THR	N-CA-C	7.31	126.38	110.80
1	O	439	THR	N-CA-C	7.31	126.37	110.80
1	S	439	THR	N-CA-C	7.31	126.37	110.80
1	D	439	THR	N-CA-C	7.31	126.36	110.80
1	I	439	THR	N-CA-C	7.31	126.37	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	439	THR	N-CA-C	7.31	126.36	110.80
1	A	439	THR	N-CA-C	7.30	126.36	110.80
1	G	439	THR	N-CA-C	7.30	126.36	110.80
1	E	439	THR	N-CA-C	7.30	126.35	110.80
1	R	439	THR	N-CA-C	7.30	126.35	110.80
1	H	439	THR	N-CA-C	7.30	126.34	110.80
1	Q	439	THR	N-CA-C	7.29	126.34	110.80
1	N	439	THR	N-CA-C	7.29	126.33	110.80
1	C	439	THR	N-CA-C	7.29	126.32	110.80
1	K	439	THR	N-CA-C	7.29	126.32	110.80
1	C	438	THR	N-CA-C	-7.16	95.54	110.80
1	N	438	THR	N-CA-C	-7.16	95.54	110.80
1	G	438	THR	N-CA-C	-7.16	95.56	110.80
1	T	438	THR	N-CA-C	-7.15	95.56	110.80
1	B	438	THR	N-CA-C	-7.15	95.56	110.80
1	A	438	THR	N-CA-C	-7.15	95.57	110.80
1	O	438	THR	N-CA-C	-7.14	95.58	110.80
1	I	438	THR	N-CA-C	-7.14	95.58	110.80
1	L	438	THR	N-CA-C	-7.14	95.59	110.80
1	F	438	THR	N-CA-C	-7.14	95.59	110.80
1	E	438	THR	N-CA-C	-7.14	95.60	110.80
1	P	483	ASN	N-CA-C	7.13	125.99	110.80
1	K	438	THR	N-CA-C	-7.13	95.61	110.80
1	P	438	THR	N-CA-C	-7.13	95.61	110.80
1	J	438	THR	N-CA-C	-7.13	95.62	110.80
1	S	438	THR	N-CA-C	-7.13	95.62	110.80
1	N	483	ASN	N-CA-C	7.12	125.98	110.80
1	J	483	ASN	N-CA-C	7.12	125.97	110.80
1	D	438	THR	N-CA-C	-7.12	95.63	110.80
1	E	483	ASN	N-CA-C	7.12	125.97	110.80
1	C	483	ASN	N-CA-C	7.12	125.96	110.80
1	H	483	ASN	N-CA-C	7.12	125.96	110.80
1	R	438	THR	N-CA-C	-7.12	95.64	110.80
1	B	483	ASN	N-CA-C	7.12	125.96	110.80
1	H	438	THR	N-CA-C	-7.12	95.64	110.80
1	Q	483	ASN	N-CA-C	7.12	125.95	110.80
1	M	438	THR	N-CA-C	-7.11	95.65	110.80
1	G	483	ASN	N-CA-C	7.11	125.94	110.80
1	L	483	ASN	N-CA-C	7.11	125.94	110.80
1	O	483	ASN	N-CA-C	7.10	125.93	110.80
1	Q	438	THR	N-CA-C	-7.10	95.67	110.80
1	A	483	ASN	N-CA-C	7.10	125.93	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	483	ASN	N-CA-C	7.10	125.93	110.80
1	I	483	ASN	N-CA-C	7.10	125.92	110.80
1	M	483	ASN	N-CA-C	7.10	125.92	110.80
1	S	483	ASN	N-CA-C	7.10	125.92	110.80
1	R	483	ASN	N-CA-C	7.09	125.90	110.80
1	T	483	ASN	N-CA-C	7.09	125.90	110.80
1	K	483	ASN	N-CA-C	7.09	125.90	110.80
1	D	483	ASN	N-CA-C	7.08	125.88	110.80
1	H	337	VAL	CA-C-N	6.96	126.64	119.82
1	H	337	VAL	C-N-CA	6.96	126.64	119.82
1	E	337	VAL	CA-C-N	6.95	126.64	119.82
1	E	337	VAL	C-N-CA	6.95	126.64	119.82
1	D	337	VAL	CA-C-N	6.95	126.63	119.82
1	D	337	VAL	C-N-CA	6.95	126.63	119.82
1	P	337	VAL	CA-C-N	6.95	126.63	119.82
1	P	337	VAL	C-N-CA	6.95	126.63	119.82
1	L	337	VAL	CA-C-N	6.94	126.62	119.82
1	L	337	VAL	C-N-CA	6.94	126.62	119.82
1	G	337	VAL	CA-C-N	6.94	126.62	119.82
1	G	337	VAL	C-N-CA	6.94	126.62	119.82
1	J	337	VAL	CA-C-N	6.92	126.60	119.82
1	J	337	VAL	C-N-CA	6.92	126.60	119.82
1	M	337	VAL	CA-C-N	6.92	126.60	119.82
1	M	337	VAL	C-N-CA	6.92	126.60	119.82
1	N	337	VAL	CA-C-N	6.92	126.60	119.82
1	N	337	VAL	C-N-CA	6.92	126.60	119.82
1	R	337	VAL	CA-C-N	6.92	126.60	119.82
1	R	337	VAL	C-N-CA	6.92	126.60	119.82
1	C	337	VAL	CA-C-N	6.91	126.59	119.82
1	C	337	VAL	C-N-CA	6.91	126.59	119.82
1	O	337	VAL	CA-C-N	6.90	126.58	119.82
1	O	337	VAL	C-N-CA	6.90	126.58	119.82
1	Q	337	VAL	CA-C-N	6.89	126.58	119.82
1	Q	337	VAL	C-N-CA	6.89	126.58	119.82
1	A	337	VAL	CA-C-N	6.89	126.57	119.82
1	A	337	VAL	C-N-CA	6.89	126.57	119.82
1	K	337	VAL	CA-C-N	6.89	126.57	119.82
1	K	337	VAL	C-N-CA	6.89	126.57	119.82
1	R	518	ARG	N-CA-C	-6.89	104.61	112.87
1	O	241	ASP	CA-C-N	6.88	126.85	119.76
1	O	241	ASP	C-N-CA	6.88	126.85	119.76
1	S	518	ARG	N-CA-C	-6.88	104.61	112.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	518	ARG	N-CA-C	-6.88	104.62	112.87
1	S	337	VAL	CA-C-N	6.87	126.56	119.82
1	S	337	VAL	C-N-CA	6.87	126.56	119.82
1	C	518	ARG	N-CA-C	-6.87	104.62	112.87
1	N	518	ARG	N-CA-C	-6.87	104.62	112.87
1	T	337	VAL	CA-C-N	6.87	126.55	119.82
1	T	337	VAL	C-N-CA	6.87	126.55	119.82
1	B	337	VAL	CA-C-N	6.87	126.55	119.82
1	B	337	VAL	C-N-CA	6.87	126.55	119.82
1	D	518	ARG	N-CA-C	-6.87	104.63	112.87
1	M	518	ARG	N-CA-C	-6.86	104.63	112.87
1	I	518	ARG	N-CA-C	-6.86	104.64	112.87
1	L	241	ASP	CA-C-N	6.86	126.83	119.76
1	L	241	ASP	C-N-CA	6.86	126.83	119.76
1	E	518	ARG	N-CA-C	-6.86	104.64	112.87
1	L	518	ARG	N-CA-C	-6.85	104.65	112.87
1	Q	518	ARG	N-CA-C	-6.85	104.65	112.87
1	H	241	ASP	CA-C-N	6.84	126.81	119.76
1	H	241	ASP	C-N-CA	6.84	126.81	119.76
1	F	337	VAL	CA-C-N	6.84	126.53	119.82
1	F	337	VAL	C-N-CA	6.84	126.53	119.82
1	P	518	ARG	N-CA-C	-6.84	104.66	112.87
1	K	518	ARG	N-CA-C	-6.84	104.67	112.87
1	H	518	ARG	N-CA-C	-6.83	104.68	112.87
1	T	518	ARG	N-CA-C	-6.82	104.68	112.87
1	E	241	ASP	CA-C-N	6.82	126.78	119.76
1	E	241	ASP	C-N-CA	6.82	126.78	119.76
1	O	518	ARG	N-CA-C	-6.82	104.69	112.87
1	B	518	ARG	N-CA-C	-6.82	104.69	112.87
1	F	241	ASP	CA-C-N	6.81	126.78	119.76
1	F	241	ASP	C-N-CA	6.81	126.78	119.76
1	A	518	ARG	N-CA-C	-6.81	104.70	112.87
1	F	518	ARG	N-CA-C	-6.81	104.70	112.87
1	P	241	ASP	CA-C-N	6.81	126.77	119.76
1	P	241	ASP	C-N-CA	6.81	126.77	119.76
1	I	337	VAL	CA-C-N	6.80	126.48	119.82
1	I	337	VAL	C-N-CA	6.80	126.48	119.82
1	J	241	ASP	CA-C-N	6.80	126.76	119.76
1	J	241	ASP	C-N-CA	6.80	126.76	119.76
1	I	241	ASP	CA-C-N	6.79	126.76	119.76
1	I	241	ASP	C-N-CA	6.79	126.76	119.76
1	T	241	ASP	CA-C-N	6.79	126.76	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	T	241	ASP	C-N-CA	6.79	126.76	119.76
1	N	241	ASP	CA-C-N	6.79	126.75	119.76
1	N	241	ASP	C-N-CA	6.79	126.75	119.76
1	Q	241	ASP	CA-C-N	6.79	126.76	119.76
1	Q	241	ASP	C-N-CA	6.79	126.76	119.76
1	G	518	ARG	N-CA-C	-6.79	104.72	112.87
1	D	241	ASP	CA-C-N	6.79	126.75	119.76
1	D	241	ASP	C-N-CA	6.79	126.75	119.76
1	S	241	ASP	CA-C-N	6.78	126.75	119.76
1	S	241	ASP	C-N-CA	6.78	126.75	119.76
1	R	241	ASP	CA-C-N	6.77	126.73	119.76
1	R	241	ASP	C-N-CA	6.77	126.73	119.76
1	K	241	ASP	CA-C-N	6.76	126.73	119.76
1	K	241	ASP	C-N-CA	6.76	126.73	119.76
1	B	241	ASP	CA-C-N	6.76	126.72	119.76
1	B	241	ASP	C-N-CA	6.76	126.72	119.76
1	N	520	VAL	N-CA-C	-6.76	100.44	109.30
1	S	520	VAL	N-CA-C	-6.75	100.45	109.30
1	A	241	ASP	CA-C-N	6.75	126.72	119.76
1	A	241	ASP	C-N-CA	6.75	126.72	119.76
1	C	241	ASP	CA-C-N	6.75	126.71	119.76
1	C	241	ASP	C-N-CA	6.75	126.71	119.76
1	G	241	ASP	CA-C-N	6.74	126.70	119.76
1	G	241	ASP	C-N-CA	6.74	126.70	119.76
1	G	520	VAL	N-CA-C	-6.73	100.48	109.30
1	I	520	VAL	N-CA-C	-6.73	100.48	109.30
1	E	520	VAL	N-CA-C	-6.72	100.49	109.30
1	B	520	VAL	N-CA-C	-6.72	100.49	109.30
1	F	520	VAL	N-CA-C	-6.72	100.49	109.30
1	M	241	ASP	CA-C-N	6.71	126.67	119.76
1	M	241	ASP	C-N-CA	6.71	126.67	119.76
1	L	520	VAL	N-CA-C	-6.71	100.51	109.30
1	D	520	VAL	N-CA-C	-6.70	100.52	109.30
1	K	520	VAL	N-CA-C	-6.70	100.52	109.30
1	Q	520	VAL	N-CA-C	-6.70	100.52	109.30
1	R	520	VAL	N-CA-C	-6.70	100.53	109.30
1	H	520	VAL	N-CA-C	-6.70	100.53	109.30
1	C	520	VAL	N-CA-C	-6.69	100.53	109.30
1	J	520	VAL	N-CA-C	-6.69	100.54	109.30
1	M	520	VAL	N-CA-C	-6.69	100.54	109.30
1	O	520	VAL	N-CA-C	-6.68	100.54	109.30
1	T	520	VAL	N-CA-C	-6.68	100.55	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	520	VAL	N-CA-C	-6.67	100.56	109.30
1	P	520	VAL	N-CA-C	-6.66	100.57	109.30
1	D	528	ALA	CA-C-O	6.49	121.70	117.94
1	S	528	ALA	CA-C-O	6.48	121.70	117.94
1	J	528	ALA	CA-C-O	6.47	121.70	117.94
1	L	528	ALA	CA-C-O	6.47	121.70	117.94
1	T	528	ALA	CA-C-O	6.47	121.69	117.94
1	M	528	ALA	CA-C-O	6.47	121.69	117.94
1	E	528	ALA	CA-C-O	6.44	121.68	117.94
1	C	528	ALA	CA-C-O	6.44	121.68	117.94
1	N	528	ALA	CA-C-O	6.44	121.67	117.94
1	K	528	ALA	CA-C-O	6.43	121.67	117.94
1	F	528	ALA	CA-C-O	6.42	121.66	117.94
1	I	528	ALA	CA-C-O	6.42	121.66	117.94
1	O	528	ALA	CA-C-O	6.41	121.66	117.94
1	G	528	ALA	CA-C-O	6.41	121.66	117.94
1	R	528	ALA	CA-C-O	6.41	121.66	117.94
1	A	528	ALA	CA-C-O	6.40	121.65	117.94
1	T	524	ASP	N-CA-C	6.37	124.37	110.80
1	B	528	ALA	CA-C-O	6.37	121.63	117.94
1	G	524	ASP	N-CA-C	6.36	124.34	110.80
1	J	524	ASP	N-CA-C	6.35	124.33	110.80
1	L	524	ASP	N-CA-C	6.35	124.33	110.80
1	K	524	ASP	N-CA-C	6.35	124.32	110.80
1	Q	524	ASP	N-CA-C	6.35	124.32	110.80
1	F	524	ASP	N-CA-C	6.34	124.30	110.80
1	Q	528	ALA	CA-C-O	6.34	121.62	117.94
1	C	524	ASP	N-CA-C	6.34	124.30	110.80
1	E	524	ASP	N-CA-C	6.34	124.30	110.80
1	P	524	ASP	N-CA-C	6.34	124.30	110.80
1	M	524	ASP	N-CA-C	6.34	124.30	110.80
1	P	528	ALA	CA-C-O	6.33	121.61	117.94
1	N	524	ASP	N-CA-C	6.33	124.29	110.80
1	D	524	ASP	N-CA-C	6.33	124.28	110.80
1	H	524	ASP	N-CA-C	6.33	124.28	110.80
1	B	524	ASP	N-CA-C	6.33	124.27	110.80
1	O	524	ASP	N-CA-C	6.33	124.27	110.80
1	A	524	ASP	N-CA-C	6.32	124.27	110.80
1	R	524	ASP	N-CA-C	6.32	124.26	110.80
1	I	524	ASP	N-CA-C	6.31	124.24	110.80
1	S	524	ASP	N-CA-C	6.30	124.23	110.80
1	H	528	ALA	CA-C-O	6.29	121.59	117.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	470	GLY	N-CA-C	-6.21	105.50	112.33
1	F	470	GLY	N-CA-C	-6.20	105.51	112.33
1	N	470	GLY	N-CA-C	-6.20	105.51	112.33
1	H	470	GLY	N-CA-C	-6.19	105.52	112.33
1	A	470	GLY	N-CA-C	-6.18	105.53	112.33
1	K	470	GLY	N-CA-C	-6.18	105.53	112.33
1	M	470	GLY	N-CA-C	-6.18	105.53	112.33
1	J	470	GLY	N-CA-C	-6.18	105.53	112.33
1	S	470	GLY	N-CA-C	-6.18	105.54	112.33
1	O	470	GLY	N-CA-C	-6.17	105.54	112.33
1	T	470	GLY	N-CA-C	-6.17	105.54	112.33
1	D	470	GLY	N-CA-C	-6.17	105.54	112.33
1	B	470	GLY	N-CA-C	-6.17	105.55	112.33
1	G	470	GLY	N-CA-C	-6.17	105.55	112.33
1	Q	470	GLY	N-CA-C	-6.17	105.55	112.33
1	K	526	THR	N-CA-C	6.16	119.20	110.14
1	R	470	GLY	N-CA-C	-6.16	105.56	112.33
1	L	470	GLY	N-CA-C	-6.15	105.57	112.33
1	E	470	GLY	N-CA-C	-6.14	105.57	112.33
1	B	526	THR	N-CA-C	6.14	119.16	110.14
1	L	526	THR	N-CA-C	6.14	119.16	110.14
1	P	470	GLY	N-CA-C	-6.14	105.58	112.33
1	E	526	THR	N-CA-C	6.12	119.14	110.14
1	A	526	THR	N-CA-C	6.12	119.14	110.14
1	R	526	THR	N-CA-C	6.12	119.14	110.14
1	I	526	THR	N-CA-C	6.12	119.13	110.14
1	C	470	GLY	N-CA-C	-6.12	105.60	112.33
1	H	526	THR	N-CA-C	6.11	119.13	110.14
1	N	526	THR	N-CA-C	6.11	119.12	110.14
1	C	526	THR	N-CA-C	6.11	119.12	110.14
1	Q	526	THR	N-CA-C	6.11	119.12	110.14
1	J	526	THR	N-CA-C	6.10	119.11	110.14
1	O	526	THR	N-CA-C	6.10	119.11	110.14
1	S	526	THR	N-CA-C	6.10	119.11	110.14
1	F	526	THR	N-CA-C	6.10	119.10	110.14
1	G	526	THR	N-CA-C	6.09	119.10	110.14
1	D	526	THR	N-CA-C	6.09	119.09	110.14
1	M	526	THR	N-CA-C	6.09	119.09	110.14
1	T	526	THR	N-CA-C	6.09	119.09	110.14
1	P	526	THR	N-CA-C	6.08	119.08	110.14
1	I	484	THR	N-CA-C	6.02	123.63	110.80
1	A	484	THR	N-CA-C	6.02	123.62	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	484	THR	N-CA-C	6.01	123.60	110.80
1	N	484	THR	N-CA-C	6.01	123.60	110.80
1	D	484	THR	N-CA-C	6.01	123.60	110.80
1	F	484	THR	N-CA-C	6.01	123.59	110.80
1	G	484	THR	N-CA-C	6.01	123.59	110.80
1	L	484	THR	N-CA-C	6.01	123.59	110.80
1	H	484	THR	N-CA-C	6.00	123.59	110.80
1	P	484	THR	N-CA-C	6.00	123.59	110.80
1	Q	484	THR	N-CA-C	6.00	123.59	110.80
1	O	484	THR	N-CA-C	6.00	123.58	110.80
1	J	484	THR	N-CA-C	6.00	123.58	110.80
1	C	484	THR	N-CA-C	5.99	123.56	110.80
1	R	484	THR	N-CA-C	5.99	123.56	110.80
1	N	503	ILE	N-CA-C	5.99	116.73	107.99
1	O	503	ILE	N-CA-C	5.99	116.73	107.99
1	S	484	THR	N-CA-C	5.99	123.55	110.80
1	T	484	THR	N-CA-C	5.99	123.55	110.80
1	P	503	ILE	N-CA-C	5.98	116.73	107.99
1	I	503	ILE	N-CA-C	5.98	116.72	107.99
1	S	503	ILE	N-CA-C	5.98	116.72	107.99
1	B	503	ILE	N-CA-C	5.98	116.72	107.99
1	E	484	THR	N-CA-C	5.98	123.53	110.80
1	M	503	ILE	N-CA-C	5.98	116.72	107.99
1	B	484	THR	N-CA-C	5.97	123.52	110.80
1	F	503	ILE	N-CA-C	5.97	116.71	107.99
1	E	503	ILE	N-CA-C	5.97	116.71	107.99
1	H	503	ILE	N-CA-C	5.97	116.70	107.99
1	Q	503	ILE	N-CA-C	5.97	116.70	107.99
1	M	484	THR	N-CA-C	5.96	123.51	110.80
1	K	503	ILE	N-CA-C	5.96	116.69	107.99
1	T	503	ILE	N-CA-C	5.96	116.69	107.99
1	G	503	ILE	N-CA-C	5.96	116.69	107.99
1	D	503	ILE	N-CA-C	5.95	116.68	107.99
1	L	503	ILE	N-CA-C	5.95	116.68	107.99
1	C	503	ILE	N-CA-C	5.95	116.67	107.99
1	R	503	ILE	N-CA-C	5.95	116.67	107.99
1	A	503	ILE	N-CA-C	5.94	116.66	107.99
1	J	503	ILE	N-CA-C	5.94	116.66	107.99
1	F	587	ILE	N-CA-C	-5.92	100.94	108.93
1	S	587	ILE	N-CA-C	-5.91	100.95	108.93
1	G	353	ARG	N-CA-C	-5.91	106.24	113.50
1	K	587	ILE	N-CA-C	-5.91	100.96	108.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	353	ARG	N-CA-C	-5.90	106.24	113.50
1	T	353	ARG	N-CA-C	-5.90	106.24	113.50
1	D	353	ARG	N-CA-C	-5.89	106.26	113.50
1	L	353	ARG	N-CA-C	-5.89	106.26	113.50
1	N	353	ARG	N-CA-C	-5.88	106.26	113.50
1	B	587	ILE	N-CA-C	-5.88	100.99	108.93
1	F	353	ARG	N-CA-C	-5.88	106.27	113.50
1	H	587	ILE	N-CA-C	-5.88	100.99	108.93
1	M	587	ILE	N-CA-C	-5.88	100.99	108.93
1	E	353	ARG	N-CA-C	-5.88	106.27	113.50
1	Q	587	ILE	N-CA-C	-5.88	101.00	108.93
1	I	587	ILE	N-CA-C	-5.87	101.00	108.93
1	T	587	ILE	N-CA-C	-5.87	101.00	108.93
1	H	353	ARG	N-CA-C	-5.87	106.28	113.50
1	M	353	ARG	N-CA-C	-5.87	106.29	113.50
1	S	353	ARG	N-CA-C	-5.87	106.29	113.50
1	E	587	ILE	N-CA-C	-5.86	101.01	108.93
1	J	353	ARG	N-CA-C	-5.86	106.29	113.50
1	P	353	ARG	N-CA-C	-5.86	106.29	113.50
1	A	587	ILE	N-CA-C	-5.86	101.02	108.93
1	B	353	ARG	N-CA-C	-5.86	106.29	113.50
1	D	587	ILE	N-CA-C	-5.86	101.02	108.93
1	O	353	ARG	N-CA-C	-5.86	106.29	113.50
1	K	353	ARG	N-CA-C	-5.86	106.30	113.50
1	N	587	ILE	N-CA-C	-5.86	101.02	108.93
1	O	587	ILE	N-CA-C	-5.86	101.02	108.93
1	C	587	ILE	N-CA-C	-5.86	101.02	108.93
1	P	587	ILE	N-CA-C	-5.86	101.03	108.93
1	R	353	ARG	N-CA-C	-5.85	106.30	113.50
1	A	353	ARG	N-CA-C	-5.85	106.31	113.50
1	G	587	ILE	N-CA-C	-5.85	101.03	108.93
1	J	587	ILE	N-CA-C	-5.84	101.05	108.93
1	C	353	ARG	N-CA-C	-5.84	106.32	113.50
1	L	587	ILE	N-CA-C	-5.84	101.05	108.93
1	R	587	ILE	N-CA-C	-5.83	101.05	108.93
1	Q	353	ARG	N-CA-C	-5.83	106.33	113.50
1	G	342	ILE	CB-CG1-CD1	5.66	125.68	113.80
1	O	342	ILE	CB-CG1-CD1	5.63	125.63	113.80
1	D	342	ILE	CB-CG1-CD1	5.63	125.63	113.80
1	S	342	ILE	CB-CG1-CD1	5.63	125.63	113.80
1	R	342	ILE	CB-CG1-CD1	5.63	125.62	113.80
1	F	342	ILE	CB-CG1-CD1	5.62	125.61	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	342	ILE	CB-CG1-CD1	5.62	125.61	113.80
1	M	342	ILE	CB-CG1-CD1	5.62	125.61	113.80
1	C	342	ILE	CB-CG1-CD1	5.62	125.60	113.80
1	J	342	ILE	CB-CG1-CD1	5.62	125.60	113.80
1	H	342	ILE	CB-CG1-CD1	5.62	125.59	113.80
1	I	342	ILE	CB-CG1-CD1	5.62	125.59	113.80
1	E	342	ILE	CB-CG1-CD1	5.61	125.58	113.80
1	N	342	ILE	CB-CG1-CD1	5.61	125.57	113.80
1	A	342	ILE	CB-CG1-CD1	5.60	125.57	113.80
1	B	342	ILE	CB-CG1-CD1	5.60	125.56	113.80
1	P	342	ILE	CB-CG1-CD1	5.60	125.56	113.80
1	Q	342	ILE	CB-CG1-CD1	5.60	125.56	113.80
1	O	481	ILE	N-CA-C	5.60	120.98	109.34
1	K	342	ILE	CB-CG1-CD1	5.59	125.53	113.80
1	N	481	ILE	N-CA-C	5.59	120.96	109.34
1	B	481	ILE	N-CA-C	5.58	120.95	109.34
1	D	481	ILE	N-CA-C	5.58	120.95	109.34
1	T	342	ILE	CB-CG1-CD1	5.58	125.52	113.80
1	J	481	ILE	N-CA-C	5.58	120.95	109.34
1	K	481	ILE	N-CA-C	5.58	120.94	109.34
1	F	481	ILE	N-CA-C	5.57	120.93	109.34
1	P	481	ILE	N-CA-C	5.57	120.93	109.34
1	N	334	HIS	N-CA-C	5.57	117.67	108.48
1	O	234	ILE	N-CA-C	5.57	116.30	108.17
1	O	271	LEU	N-CA-C	-5.57	100.17	109.24
1	K	234	ILE	N-CA-C	5.56	116.29	108.17
1	P	334	HIS	N-CA-C	5.56	117.66	108.48
1	Q	481	ILE	N-CA-C	5.56	120.91	109.34
1	I	481	ILE	N-CA-C	5.56	120.91	109.34
1	F	271	LEU	N-CA-C	-5.56	100.18	109.24
1	K	334	HIS	N-CA-C	5.56	117.65	108.48
1	Q	334	HIS	N-CA-C	5.56	117.65	108.48
1	C	334	HIS	N-CA-C	5.56	117.65	108.48
1	K	271	LEU	N-CA-C	-5.56	100.18	109.24
1	C	234	ILE	N-CA-C	5.55	116.28	108.17
1	H	271	LEU	N-CA-C	-5.55	100.19	109.24
1	M	271	LEU	N-CA-C	-5.55	100.19	109.24
1	M	481	ILE	N-CA-C	5.55	120.89	109.34
1	B	271	LEU	N-CA-C	-5.55	100.19	109.24
1	Q	234	ILE	N-CA-C	5.55	116.28	108.17
1	C	481	ILE	N-CA-C	5.55	120.88	109.34
1	D	271	LEU	N-CA-C	-5.55	100.19	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	334	HIS	N-CA-C	5.55	117.64	108.48
1	R	481	ILE	N-CA-C	5.55	120.89	109.34
1	A	334	HIS	N-CA-C	5.55	117.63	108.48
1	A	481	ILE	N-CA-C	5.55	120.88	109.34
1	H	481	ILE	N-CA-C	5.55	120.88	109.34
1	J	234	ILE	N-CA-C	5.55	116.27	108.17
1	S	271	LEU	N-CA-C	-5.55	100.20	109.24
1	J	334	HIS	N-CA-C	5.54	117.63	108.48
1	E	481	ILE	N-CA-C	5.54	120.87	109.34
1	L	481	ILE	N-CA-C	5.54	120.87	109.34
1	S	481	ILE	N-CA-C	5.54	120.87	109.34
1	I	234	ILE	N-CA-C	5.54	116.26	108.17
1	L	183	THR	N-CA-C	5.54	118.05	110.24
1	O	334	HIS	N-CA-C	5.54	117.62	108.48
1	R	271	LEU	N-CA-C	-5.54	100.21	109.24
1	A	234	ILE	N-CA-C	5.54	116.26	108.17
1	G	271	LEU	N-CA-C	-5.54	100.21	109.24
1	F	234	ILE	N-CA-C	5.54	116.26	108.17
1	G	234	ILE	N-CA-C	5.54	116.25	108.17
1	H	183	THR	N-CA-C	5.54	118.05	110.24
1	N	183	THR	N-CA-C	5.54	118.05	110.24
1	N	271	LEU	N-CA-C	-5.54	100.21	109.24
1	T	271	LEU	N-CA-C	-5.54	100.21	109.24
1	E	271	LEU	N-CA-C	-5.54	100.21	109.24
1	F	334	HIS	N-CA-C	5.54	117.61	108.48
1	G	481	ILE	N-CA-C	5.54	120.86	109.34
1	Q	271	LEU	N-CA-C	-5.54	100.22	109.24
1	L	234	ILE	N-CA-C	5.53	116.25	108.17
1	P	271	LEU	N-CA-C	-5.53	100.22	109.24
1	R	234	ILE	N-CA-C	5.53	116.25	108.17
1	T	334	HIS	N-CA-C	5.53	117.61	108.48
1	T	183	THR	N-CA-C	5.53	118.04	110.24
1	C	271	LEU	N-CA-C	-5.53	100.22	109.24
1	E	334	HIS	N-CA-C	5.53	117.61	108.48
1	A	271	LEU	N-CA-C	-5.53	100.23	109.24
1	F	183	THR	N-CA-C	5.53	118.03	110.24
1	D	334	HIS	N-CA-C	5.53	117.60	108.48
1	E	234	ILE	N-CA-C	5.53	116.24	108.17
1	I	183	THR	N-CA-C	5.53	118.03	110.24
1	I	271	LEU	N-CA-C	-5.53	100.23	109.24
1	L	271	LEU	N-CA-C	-5.53	100.23	109.24
1	M	234	ILE	N-CA-C	5.53	116.24	108.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	271	LEU	N-CA-C	-5.53	100.23	109.24
1	J	183	THR	N-CA-C	5.52	118.03	110.24
1	B	334	HIS	N-CA-C	5.52	117.59	108.48
1	G	334	HIS	N-CA-C	5.52	117.59	108.48
1	H	334	HIS	N-CA-C	5.52	117.59	108.48
1	T	234	ILE	N-CA-C	5.52	116.23	108.17
1	T	481	ILE	N-CA-C	5.52	120.82	109.34
1	B	183	THR	N-CA-C	5.52	118.02	110.24
1	M	334	HIS	N-CA-C	5.52	117.58	108.48
1	A	183	THR	N-CA-C	5.52	118.02	110.24
1	P	234	ILE	N-CA-C	5.52	116.22	108.17
1	D	234	ILE	N-CA-C	5.51	116.22	108.17
1	O	183	THR	N-CA-C	5.51	118.01	110.24
1	H	234	ILE	N-CA-C	5.51	116.21	108.17
1	R	334	HIS	N-CA-C	5.51	117.57	108.48
1	I	334	HIS	N-CA-C	5.50	117.56	108.48
1	S	334	HIS	N-CA-C	5.50	117.56	108.48
1	P	183	THR	N-CA-C	5.50	118.00	110.24
1	R	183	THR	N-CA-C	5.50	118.00	110.24
1	K	183	THR	N-CA-C	5.50	117.99	110.24
1	E	183	THR	N-CA-C	5.50	117.99	110.24
1	N	234	ILE	N-CA-C	5.50	116.20	108.17
1	S	183	THR	N-CA-C	5.50	117.99	110.24
1	B	234	ILE	N-CA-C	5.50	116.19	108.17
1	S	234	ILE	N-CA-C	5.50	116.19	108.17
1	D	183	THR	N-CA-C	5.49	117.97	110.24
1	M	183	THR	N-CA-C	5.48	117.97	110.24
1	Q	183	THR	N-CA-C	5.48	117.97	110.24
1	C	183	THR	N-CA-C	5.47	117.96	110.24
1	G	183	THR	N-CA-C	5.47	117.96	110.24
1	D	377	ASN	N-CA-C	-5.40	106.56	112.72
1	J	377	ASN	N-CA-C	-5.39	106.58	112.72
1	P	377	ASN	N-CA-C	-5.39	106.58	112.72
1	C	377	ASN	N-CA-C	-5.38	106.58	112.72
1	T	377	ASN	N-CA-C	-5.38	106.58	112.72
1	R	377	ASN	N-CA-C	-5.38	106.58	112.72
1	B	377	ASN	N-CA-C	-5.37	106.60	112.72
1	Q	377	ASN	N-CA-C	-5.36	106.61	112.72
1	O	377	ASN	N-CA-C	-5.36	106.61	112.72
1	I	377	ASN	N-CA-C	-5.35	106.62	112.72
1	K	377	ASN	N-CA-C	-5.35	106.62	112.72
1	L	377	ASN	N-CA-C	-5.35	106.62	112.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	377	ASN	N-CA-C	-5.35	106.62	112.72
1	N	377	ASN	N-CA-C	-5.34	106.63	112.72
1	F	377	ASN	N-CA-C	-5.34	106.63	112.72
1	J	277	HIS	N-CA-C	5.34	117.42	109.25
1	E	377	ASN	N-CA-C	-5.34	106.64	112.72
1	R	277	HIS	N-CA-C	5.33	117.41	109.25
1	B	277	HIS	N-CA-C	5.33	117.41	109.25
1	S	377	ASN	N-CA-C	-5.33	106.65	112.72
1	E	277	HIS	N-CA-C	5.33	117.40	109.25
1	A	377	ASN	N-CA-C	-5.32	106.65	112.72
1	D	277	HIS	N-CA-C	5.32	117.39	109.25
1	F	277	HIS	N-CA-C	5.32	117.39	109.25
1	G	377	ASN	N-CA-C	-5.31	106.67	112.72
1	H	377	ASN	N-CA-C	-5.31	106.67	112.72
1	A	277	HIS	N-CA-C	5.30	117.37	109.25
1	L	277	HIS	N-CA-C	5.30	117.36	109.25
1	N	277	HIS	N-CA-C	5.30	117.36	109.25
1	M	277	HIS	N-CA-C	5.30	117.36	109.25
1	G	277	HIS	N-CA-C	5.30	117.35	109.25
1	K	277	HIS	N-CA-C	5.30	117.35	109.25
1	T	277	HIS	N-CA-C	5.29	117.35	109.25
1	C	277	HIS	N-CA-C	5.29	117.35	109.25
1	H	277	HIS	N-CA-C	5.29	117.34	109.25
1	I	277	HIS	N-CA-C	5.29	117.34	109.25
1	P	277	HIS	N-CA-C	5.28	117.33	109.25
1	S	277	HIS	N-CA-C	5.28	117.33	109.25
1	Q	277	HIS	N-CA-C	5.28	117.32	109.25
1	O	277	HIS	N-CA-C	5.27	117.31	109.25
1	P	641	PHE	N-CA-C	5.14	121.17	109.81
1	O	420	TRP	CA-C-N	5.14	126.27	119.84
1	O	420	TRP	C-N-CA	5.14	126.27	119.84
1	J	420	TRP	CA-C-N	5.14	126.26	119.84
1	J	420	TRP	C-N-CA	5.14	126.26	119.84
1	H	528	ALA	N-CA-C	5.13	112.99	108.78
1	R	420	TRP	CA-C-N	5.13	126.25	119.84
1	R	420	TRP	C-N-CA	5.13	126.25	119.84
1	T	641	PHE	N-CA-C	5.13	121.14	109.81
1	E	420	TRP	CA-C-N	5.12	126.25	119.84
1	E	420	TRP	C-N-CA	5.12	126.25	119.84
1	L	641	PHE	N-CA-C	5.12	121.13	109.81
1	I	641	PHE	N-CA-C	5.12	121.12	109.81
1	N	528	ALA	N-CA-C	5.12	112.98	108.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	641	PHE	N-CA-C	5.12	121.13	109.81
1	A	641	PHE	N-CA-C	5.12	121.12	109.81
1	C	641	PHE	N-CA-C	5.12	121.12	109.81
1	M	641	PHE	N-CA-C	5.12	121.12	109.81
1	Q	641	PHE	N-CA-C	5.12	121.12	109.81
1	T	420	TRP	CA-C-N	5.12	126.24	119.84
1	T	420	TRP	C-N-CA	5.12	126.24	119.84
1	A	420	TRP	CA-C-N	5.12	126.23	119.84
1	A	420	TRP	C-N-CA	5.12	126.23	119.84
1	H	641	PHE	N-CA-C	5.12	121.11	109.81
1	B	641	PHE	N-CA-C	5.11	121.10	109.81
1	C	420	TRP	CA-C-N	5.11	126.23	119.84
1	C	420	TRP	C-N-CA	5.11	126.23	119.84
1	Q	528	ALA	N-CA-C	5.11	112.97	108.78
1	S	641	PHE	N-CA-C	5.11	121.10	109.81
1	D	641	PHE	N-CA-C	5.11	121.09	109.81
1	G	420	TRP	CA-C-N	5.11	126.22	119.84
1	G	420	TRP	C-N-CA	5.11	126.22	119.84
1	N	420	TRP	CA-C-N	5.11	126.22	119.84
1	N	420	TRP	C-N-CA	5.11	126.22	119.84
1	O	641	PHE	N-CA-C	5.10	121.09	109.81
1	K	641	PHE	N-CA-C	5.10	121.09	109.81
1	H	420	TRP	CA-C-N	5.10	126.22	119.84
1	H	420	TRP	C-N-CA	5.10	126.22	119.84
1	E	641	PHE	N-CA-C	5.10	121.08	109.81
1	J	641	PHE	N-CA-C	5.10	121.08	109.81
1	L	420	TRP	CA-C-N	5.10	126.22	119.84
1	L	420	TRP	C-N-CA	5.10	126.22	119.84
1	F	420	TRP	CA-C-N	5.10	126.21	119.84
1	F	420	TRP	C-N-CA	5.10	126.21	119.84
1	K	420	TRP	CA-C-N	5.10	126.21	119.84
1	K	420	TRP	C-N-CA	5.10	126.21	119.84
1	F	641	PHE	N-CA-C	5.09	121.06	109.81
1	M	420	TRP	CA-C-N	5.09	126.20	119.84
1	M	420	TRP	C-N-CA	5.09	126.20	119.84
1	S	420	TRP	CA-C-N	5.09	126.20	119.84
1	S	420	TRP	C-N-CA	5.09	126.20	119.84
1	G	528	ALA	N-CA-C	5.09	112.95	108.78
1	B	420	TRP	CA-C-N	5.08	126.19	119.84
1	B	420	TRP	C-N-CA	5.08	126.19	119.84
1	I	420	TRP	CA-C-N	5.08	126.19	119.84
1	I	420	TRP	C-N-CA	5.08	126.19	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	641	PHE	N-CA-C	5.08	121.04	109.81
1	Q	420	TRP	CA-C-N	5.08	126.19	119.84
1	Q	420	TRP	C-N-CA	5.08	126.19	119.84
1	R	641	PHE	N-CA-C	5.08	121.04	109.81
1	R	528	ALA	N-CA-C	5.08	112.94	108.78
1	I	528	ALA	N-CA-C	5.07	112.94	108.78
1	P	420	TRP	CA-C-N	5.07	126.18	119.84
1	P	420	TRP	C-N-CA	5.07	126.18	119.84
1	K	528	ALA	N-CA-C	5.07	112.94	108.78
1	P	528	ALA	CB-CA-C	-5.07	109.77	117.07
1	D	420	TRP	CA-C-N	5.07	126.18	119.84
1	D	420	TRP	C-N-CA	5.07	126.18	119.84
1	O	528	ALA	N-CA-C	5.07	112.93	108.78
1	P	528	ALA	N-CA-C	5.06	112.93	108.78
1	J	528	ALA	N-CA-C	5.06	112.93	108.78
1	H	528	ALA	CB-CA-C	-5.06	109.78	117.07
1	D	528	ALA	N-CA-C	5.05	112.92	108.78
1	A	528	ALA	N-CA-C	5.05	112.92	108.78
1	C	528	ALA	N-CA-C	5.05	112.92	108.78
1	R	528	ALA	CB-CA-C	-5.05	109.80	117.07
1	B	528	ALA	CB-CA-C	-5.04	109.81	117.07
1	Q	528	ALA	CB-CA-C	-5.04	109.81	117.07
1	M	528	ALA	CB-CA-C	-5.04	109.81	117.07
1	M	528	ALA	N-CA-C	5.04	112.91	108.78
1	J	528	ALA	CB-CA-C	-5.04	109.82	117.07
1	T	528	ALA	CB-CA-C	-5.03	109.82	117.07
1	N	528	ALA	CB-CA-C	-5.03	109.83	117.07
1	E	528	ALA	CB-CA-C	-5.03	109.83	117.07
1	O	528	ALA	CB-CA-C	-5.03	109.83	117.07
1	A	528	ALA	CB-CA-C	-5.02	109.83	117.07
1	F	528	ALA	CB-CA-C	-5.02	109.83	117.07
1	I	528	ALA	CB-CA-C	-5.02	109.83	117.07
1	P	210	ALA	N-CA-C	5.02	117.25	108.76
1	G	528	ALA	CB-CA-C	-5.02	109.84	117.07
1	B	210	ALA	N-CA-C	5.02	117.24	108.76
1	K	528	ALA	CB-CA-C	-5.02	109.84	117.07
1	L	528	ALA	N-CA-C	5.02	112.89	108.78
1	K	210	ALA	N-CA-C	5.01	117.23	108.76
1	E	528	ALA	N-CA-C	5.01	112.89	108.78
1	N	210	ALA	N-CA-C	5.01	117.22	108.76
1	Q	210	ALA	N-CA-C	5.00	117.22	108.76
1	B	528	ALA	N-CA-C	5.00	112.88	108.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	528	ALA	CB-CA-C	-5.00	109.87	117.07
1	T	528	ALA	N-CA-C	5.00	112.88	108.78
1	M	210	ALA	N-CA-C	5.00	117.21	108.76

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	3892	0	3823	949	5
1	B	3892	0	3823	944	0
1	C	3892	0	3825	713	207
1	D	3892	0	3823	951	3
1	E	3892	0	3824	866	88
1	F	3892	0	3823	951	8
1	G	3892	0	3825	715	143
1	H	3892	0	3825	709	124
1	I	3892	0	3825	714	88
1	J	3892	0	3824	799	91
1	K	3892	0	3824	801	104
1	L	3892	0	3823	951	38
1	M	3892	0	3824	805	123
1	N	3892	0	3824	862	115
1	O	3892	0	3825	709	152
1	P	3892	0	3825	724	149
1	Q	3892	0	3824	879	85
1	R	3892	0	3823	945	14
1	S	3892	0	3824	863	82
1	T	3892	0	3824	794	85
All	All	77840	0	76480	14569	928

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 94.

All (14569) 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:Q:165:GLU:CD	1:R:325:LEU:HD22	1.20	1.63
1:A:330:SER:C	1:L:240:VAL:HG11	1.21	1.62
1:B:325:LEU:HD22	1:D:165:GLU:CG	1.29	1.62
1:B:325:LEU:HD22	1:D:165:GLU:CD	1.20	1.62
1:Q:325:LEU:HD22	1:R:165:GLU:CG	1.29	1.61
1:F:165:GLU:CD	1:N:325:LEU:HD22	1.20	1.60
1:A:325:LEU:HD22	1:E:165:GLU:CG	1.29	1.60
1:F:325:LEU:HD22	1:N:165:GLU:CD	1.20	1.59
1:E:330:SER:C	1:J:240:VAL:HG11	1.21	1.59
1:L:325:LEU:HD22	1:S:165:GLU:CG	1.29	1.59
1:F:325:LEU:HD22	1:N:165:GLU:CG	1.29	1.58
1:L:165:GLU:CD	1:S:325:LEU:HD22	1.20	1.57
1:L:325:LEU:CD2	1:S:165:GLU:HG3	1.33	1.57
1:L:165:GLU:CG	1:S:325:LEU:HD22	1.29	1.57
1:A:240:VAL:HG11	1:D:330:SER:C	1.21	1.56
1:F:165:GLU:HG3	1:N:325:LEU:CD2	1.34	1.56
1:A:165:GLU:CG	1:E:325:LEU:HD22	1.29	1.56
1:A:325:LEU:CD2	1:E:165:GLU:HG3	1.34	1.56
1:B:165:GLU:CD	1:D:325:LEU:HD22	1.20	1.55
1:A:325:LEU:HD22	1:E:165:GLU:CD	1.20	1.55
1:M:240:VAL:HG11	1:Q:330:SER:C	1.21	1.55
1:Q:165:GLU:CG	1:R:325:LEU:HD22	1.29	1.55
1:F:325:LEU:CD2	1:N:165:GLU:HG3	1.34	1.54
1:S:330:SER:C	1:T:240:VAL:HG11	1.21	1.54
1:B:165:GLU:CG	1:D:325:LEU:HD22	1.29	1.54
1:A:165:GLU:CD	1:E:325:LEU:HD22	1.20	1.54
1:B:165:GLU:HG3	1:D:325:LEU:CD2	1.34	1.54
1:B:330:SER:C	1:F:240:VAL:HG11	1.21	1.53
1:F:165:GLU:CG	1:N:325:LEU:HD22	1.29	1.53
1:K:240:VAL:HG11	1:N:330:SER:C	1.22	1.53
1:Q:165:GLU:HG3	1:R:325:LEU:CD2	1.34	1.53
1:A:165:GLU:HG3	1:E:325:LEU:CD2	1.34	1.52
1:B:240:VAL:HG11	1:R:330:SER:C	1.21	1.52
1:L:165:GLU:HG3	1:S:325:LEU:CD2	1.34	1.52
1:E:280:SER:HB3	1:E:334:HIS:CD2	1.45	1.52
1:B:280:SER:HB3	1:B:334:HIS:CD2	1.45	1.51
1:D:240:VAL:HG11	1:L:330:SER:C	1.21	1.51
1:L:280:SER:HB3	1:L:334:HIS:CD2	1.46	1.51
1:K:280:SER:HB3	1:K:334:HIS:CD2	1.45	1.51
1:C:280:SER:HB3	1:C:334:HIS:CD2	1.46	1.51
1:N:280:SER:HB3	1:N:334:HIS:CD2	1.46	1.51
1:L:325:LEU:HD22	1:S:165:GLU:CD	1.20	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:325:LEU:HD22	1:R:165:GLU:CD	1.20	1.50
1:B:251:TYR:CD1	1:R:328:PRO:O	1.63	1.50
1:I:280:SER:HB3	1:I:334:HIS:CD2	1.45	1.50
1:B:325:LEU:CD2	1:D:165:GLU:HG3	1.34	1.50
1:Q:325:LEU:CD2	1:R:165:GLU:HG3	1.34	1.50
1:F:328:PRO:O	1:R:251:TYR:CD1	1.64	1.49
1:B:328:PRO:O	1:F:251:TYR:CD1	1.63	1.49
1:H:280:SER:HB3	1:H:334:HIS:CD2	1.45	1.49
1:F:330:SER:C	1:R:240:VAL:HG11	1.21	1.49
1:M:251:TYR:CD1	1:Q:328:PRO:O	1.63	1.49
1:E:328:PRO:O	1:J:251:TYR:CD1	1.64	1.49
1:M:280:SER:HB3	1:M:334:HIS:CD2	1.45	1.49
1:Q:280:SER:HB3	1:Q:334:HIS:CD2	1.46	1.49
1:S:328:PRO:O	1:T:251:TYR:CD1	1.64	1.49
1:A:328:PRO:O	1:L:251:TYR:CD1	1.64	1.48
1:D:251:TYR:CD1	1:L:328:PRO:O	1.63	1.48
1:R:280:SER:HB3	1:R:334:HIS:CD2	1.46	1.48
1:S:280:SER:HB3	1:S:334:HIS:CD2	1.45	1.48
1:A:251:TYR:CD1	1:D:328:PRO:O	1.63	1.48
1:A:280:SER:HB3	1:A:334:HIS:CD2	1.45	1.48
1:D:280:SER:HB3	1:D:334:HIS:CD2	1.46	1.48
1:F:280:SER:HB3	1:F:334:HIS:CD2	1.45	1.48
1:F:451:TYR:CA	1:F:458:VAL:HG23	1.44	1.48
1:P:280:SER:HB3	1:P:334:HIS:CD2	1.46	1.48
1:H:451:TYR:CA	1:H:458:VAL:HG23	1.44	1.48
1:I:451:TYR:CA	1:I:458:VAL:HG23	1.44	1.48
1:N:451:TYR:CA	1:N:458:VAL:HG23	1.44	1.48
1:D:451:TYR:CA	1:D:458:VAL:HG23	1.44	1.47
1:L:451:TYR:CA	1:L:458:VAL:HG23	1.44	1.47
1:O:280:SER:HB3	1:O:334:HIS:CD2	1.46	1.47
1:G:280:SER:HB3	1:G:334:HIS:CD2	1.45	1.47
1:J:280:SER:HB3	1:J:334:HIS:CD2	1.45	1.47
1:E:451:TYR:CA	1:E:458:VAL:HG23	1.44	1.47
1:K:251:TYR:CD1	1:N:328:PRO:O	1.63	1.46
1:P:451:TYR:CA	1:P:458:VAL:HG23	1.44	1.46
1:T:280:SER:HB3	1:T:334:HIS:CD2	1.45	1.46
1:B:451:TYR:CA	1:B:458:VAL:HG23	1.44	1.46
1:Q:451:TYR:CA	1:Q:458:VAL:HG23	1.44	1.46
1:T:451:TYR:CA	1:T:458:VAL:HG23	1.44	1.46
1:J:451:TYR:CA	1:J:458:VAL:HG23	1.44	1.45
1:C:451:TYR:CA	1:C:458:VAL:HG23	1.44	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:451:TYR:CA	1:O:458:VAL:HG23	1.44	1.45
1:D:402:LYS:NZ	1:D:511:PHE:CD2	1.85	1.45
1:L:402:LYS:NZ	1:L:511:PHE:CD2	1.85	1.45
1:F:275:LEU:HD11	1:R:275:LEU:CA	1.47	1.45
1:R:451:TYR:CA	1:R:458:VAL:HG23	1.44	1.45
1:I:402:LYS:NZ	1:I:511:PHE:CD2	1.85	1.44
1:M:451:TYR:CA	1:M:458:VAL:HG23	1.44	1.44
1:K:402:LYS:NZ	1:K:511:PHE:CD2	1.85	1.44
1:K:451:TYR:CA	1:K:458:VAL:HG23	1.44	1.44
1:S:451:TYR:CA	1:S:458:VAL:HG23	1.44	1.44
1:B:402:LYS:NZ	1:B:511:PHE:CD2	1.85	1.44
1:A:451:TYR:CA	1:A:458:VAL:HG23	1.44	1.43
1:A:275:LEU:HD11	1:L:275:LEU:CA	1.48	1.43
1:G:451:TYR:CA	1:G:458:VAL:HG23	1.44	1.43
1:M:402:LYS:NZ	1:M:511:PHE:CD2	1.85	1.43
1:O:402:LYS:NZ	1:O:511:PHE:CD2	1.85	1.43
1:A:325:LEU:CB	1:E:165:GLU:OE1	1.67	1.42
1:I:601:LEU:CD1	1:I:650:ILE:CD1	1.98	1.42
1:J:402:LYS:NZ	1:J:511:PHE:CD2	1.85	1.42
1:O:601:LEU:CD1	1:O:650:ILE:CD1	1.97	1.42
1:P:601:LEU:CD1	1:P:650:ILE:CD1	1.97	1.42
1:D:275:LEU:CA	1:L:275:LEU:HD11	1.47	1.42
1:L:325:LEU:CB	1:S:165:GLU:OE1	1.67	1.42
1:N:402:LYS:NZ	1:N:511:PHE:CD2	1.85	1.42
1:N:601:LEU:CD1	1:N:650:ILE:CD1	1.97	1.42
1:P:402:LYS:NZ	1:P:511:PHE:CD2	1.85	1.42
1:T:601:LEU:CD1	1:T:650:ILE:CD1	1.97	1.42
1:B:275:LEU:CA	1:R:275:LEU:HD11	1.48	1.42
1:F:601:LEU:CD1	1:F:650:ILE:CD1	1.97	1.42
1:H:402:LYS:NZ	1:H:511:PHE:CD2	1.85	1.42
1:L:165:GLU:OE1	1:S:325:LEU:CB	1.67	1.42
1:L:601:LEU:CD1	1:L:650:ILE:CD1	1.97	1.42
1:Q:601:LEU:CD1	1:Q:650:ILE:CD1	1.97	1.42
1:S:402:LYS:NZ	1:S:511:PHE:CD2	1.85	1.42
1:D:601:LEU:CD1	1:D:650:ILE:CD1	1.98	1.42
1:H:601:LEU:CD1	1:H:650:ILE:CD1	1.97	1.42
1:M:275:LEU:CA	1:Q:275:LEU:HD11	1.48	1.42
1:R:451:TYR:H	1:R:458:VAL:CG2	1.34	1.41
1:B:601:LEU:CD1	1:B:650:ILE:CD1	1.97	1.41
1:B:275:LEU:HD11	1:F:275:LEU:CA	1.48	1.41
1:J:601:LEU:CD1	1:J:650:ILE:CD1	1.98	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:451:TYR:H	1:K:458:VAL:CG2	1.34	1.41
1:Q:165:GLU:OE1	1:R:325:LEU:CB	1.67	1.41
1:S:275:LEU:HD11	1:T:275:LEU:CA	1.47	1.41
1:F:325:LEU:CD2	1:N:165:GLU:CG	1.93	1.41
1:A:275:LEU:CA	1:D:275:LEU:HD11	1.48	1.41
1:E:275:LEU:HD11	1:J:275:LEU:CA	1.47	1.40
1:E:451:TYR:H	1:E:458:VAL:CG2	1.34	1.40
1:G:601:LEU:CD1	1:G:650:ILE:CD1	1.98	1.40
1:J:451:TYR:H	1:J:458:VAL:CG2	1.34	1.40
1:K:601:LEU:CD1	1:K:650:ILE:CD1	1.97	1.40
1:Q:451:TYR:H	1:Q:458:VAL:CG2	1.34	1.40
1:A:165:GLU:OE1	1:E:325:LEU:CB	1.68	1.40
1:B:325:LEU:CB	1:D:165:GLU:OE1	1.67	1.40
1:C:601:LEU:CD1	1:C:650:ILE:CD1	1.97	1.40
1:R:402:LYS:NZ	1:R:511:PHE:CD2	1.85	1.40
1:A:451:TYR:H	1:A:458:VAL:CG2	1.34	1.40
1:B:165:GLU:OE1	1:D:325:LEU:CB	1.67	1.40
1:M:601:LEU:CD1	1:M:650:ILE:CD1	1.97	1.40
1:Q:402:LYS:NZ	1:Q:511:PHE:CD2	1.85	1.40
1:R:601:LEU:CD1	1:R:650:ILE:CD1	1.97	1.40
1:F:451:TYR:H	1:F:458:VAL:CG2	1.34	1.40
1:H:451:TYR:H	1:H:458:VAL:CG2	1.34	1.40
1:L:451:TYR:H	1:L:458:VAL:CG2	1.34	1.40
1:T:402:LYS:NZ	1:T:511:PHE:CD2	1.85	1.40
1:K:275:LEU:CA	1:N:275:LEU:HD11	1.48	1.39
1:N:451:TYR:H	1:N:458:VAL:CG2	1.34	1.39
1:Q:325:LEU:CB	1:R:165:GLU:OE1	1.68	1.39
1:S:601:LEU:CD1	1:S:650:ILE:CD1	1.97	1.39
1:A:601:LEU:CD1	1:A:650:ILE:CD1	1.97	1.39
1:C:451:TYR:H	1:C:458:VAL:CG2	1.34	1.39
1:E:601:LEU:CD1	1:E:650:ILE:CD1	1.97	1.39
1:F:165:GLU:OE1	1:N:325:LEU:CB	1.67	1.39
1:L:325:LEU:CD2	1:S:165:GLU:CG	1.93	1.39
1:F:402:LYS:NZ	1:F:511:PHE:CD2	1.85	1.39
1:G:402:LYS:NZ	1:G:511:PHE:CD2	1.85	1.39
1:B:325:LEU:CD2	1:D:165:GLU:CG	1.93	1.39
1:B:451:TYR:H	1:B:458:VAL:CG2	1.34	1.39
1:D:451:TYR:H	1:D:458:VAL:CG2	1.34	1.39
1:Q:165:GLU:CG	1:R:325:LEU:CD2	1.93	1.39
1:S:451:TYR:H	1:S:458:VAL:CG2	1.34	1.39
1:T:451:TYR:H	1:T:458:VAL:CG2	1.34	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:327:PRO:CD	1:L:237:PRO:HD3	1.54	1.38
1:C:402:LYS:NZ	1:C:511:PHE:CD2	1.85	1.38
1:M:451:TYR:H	1:M:458:VAL:CG2	1.34	1.38
1:I:451:TYR:H	1:I:458:VAL:CG2	1.34	1.38
1:P:451:TYR:H	1:P:458:VAL:CG2	1.34	1.38
1:A:402:LYS:NZ	1:A:511:PHE:CD2	1.85	1.37
1:E:402:LYS:NZ	1:E:511:PHE:CD2	1.85	1.38
1:L:165:GLU:CG	1:S:325:LEU:CD2	1.93	1.38
1:Q:325:LEU:CD2	1:R:165:GLU:CG	1.93	1.37
1:B:237:PRO:HD3	1:R:327:PRO:CD	1.54	1.37
1:F:325:LEU:CB	1:N:165:GLU:OE1	1.68	1.37
1:F:327:PRO:CD	1:R:237:PRO:HD3	1.54	1.37
1:O:451:TYR:H	1:O:458:VAL:CG2	1.34	1.37
1:F:165:GLU:CG	1:N:325:LEU:CD2	1.93	1.37
1:A:237:PRO:HD3	1:D:327:PRO:CD	1.54	1.37
1:G:451:TYR:H	1:G:458:VAL:CG2	1.34	1.37
1:K:237:PRO:HD3	1:N:327:PRO:CD	1.54	1.36
1:E:275:LEU:CD1	1:J:275:LEU:HA	1.56	1.36
1:D:237:PRO:HD3	1:L:327:PRO:CD	1.54	1.36
1:E:313:GLU:OE1	1:L:255:LEU:HD13	1.24	1.36
1:H:255:LEU:HD13	1:T:313:GLU:OE1	1.24	1.36
1:M:237:PRO:HD3	1:Q:327:PRO:CD	1.54	1.36
1:A:275:LEU:CD1	1:L:275:LEU:HA	1.56	1.35
1:B:327:PRO:CD	1:F:237:PRO:HD3	1.54	1.35
1:K:275:LEU:HA	1:N:275:LEU:CD1	1.56	1.35
1:D:313:GLU:OE1	1:F:255:LEU:HD13	1.24	1.35
1:A:275:LEU:HA	1:D:275:LEU:CD1	1.56	1.34
1:S:275:LEU:CD1	1:T:275:LEU:HA	1.56	1.34
1:F:275:LEU:CD1	1:R:275:LEU:HA	1.56	1.34
1:B:255:LEU:HD13	1:Q:313:GLU:OE1	1.24	1.34
1:E:327:PRO:CD	1:J:237:PRO:HD3	1.54	1.34
1:H:313:GLU:OE1	1:O:255:LEU:HD13	1.24	1.34
1:D:275:LEU:HA	1:L:275:LEU:CD1	1.56	1.34
1:M:275:LEU:HA	1:Q:275:LEU:CD1	1.56	1.33
1:S:327:PRO:CD	1:T:237:PRO:HD3	1.54	1.33
1:B:275:LEU:HA	1:R:275:LEU:CD1	1.56	1.33
1:S:327:PRO:CG	1:T:237:PRO:HD3	1.59	1.33
1:D:237:PRO:HD3	1:L:327:PRO:CG	1.59	1.32
1:K:439:THR:OG1	1:K:457:ILE:HG12	1.29	1.32
1:B:237:PRO:HD3	1:R:327:PRO:CG	1.59	1.32
1:L:439:THR:OG1	1:L:457:ILE:HG12	1.29	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:439:THR:OG1	1:C:457:ILE:HG12	1.29	1.32
1:J:439:THR:OG1	1:J:457:ILE:HG12	1.29	1.31
1:B:275:LEU:CD1	1:F:275:LEU:HA	1.56	1.31
1:S:439:THR:OG1	1:S:457:ILE:HG12	1.29	1.31
1:F:327:PRO:CG	1:R:237:PRO:HD3	1.59	1.31
1:K:237:PRO:HD3	1:N:327:PRO:CG	1.59	1.31
1:R:439:THR:OG1	1:R:457:ILE:HG12	1.29	1.31
1:A:325:LEU:CD2	1:E:165:GLU:CG	1.93	1.31
1:B:327:PRO:CG	1:F:237:PRO:HD3	1.59	1.31
1:F:280:SER:OG	1:F:334:HIS:NE2	1.64	1.31
1:H:439:THR:OG1	1:H:457:ILE:HG12	1.29	1.31
1:J:402:LYS:CE	1:J:511:PHE:HD2	1.44	1.31
1:P:313:GLU:OE1	1:Q:255:LEU:HD13	1.24	1.31
1:A:255:LEU:HD13	1:B:313:GLU:OE1	1.24	1.30
1:C:255:LEU:HD13	1:K:313:GLU:OE1	1.24	1.30
1:I:255:LEU:HD13	1:M:313:GLU:OE1	1.24	1.30
1:P:402:LYS:CE	1:P:511:PHE:HD2	1.44	1.30
1:A:237:PRO:HD3	1:D:327:PRO:CG	1.59	1.30
1:E:327:PRO:CG	1:J:237:PRO:HD3	1.59	1.30
1:F:402:LYS:CE	1:F:511:PHE:HD2	1.44	1.30
1:H:402:LYS:CE	1:H:511:PHE:HD2	1.44	1.30
1:M:237:PRO:HD3	1:Q:327:PRO:CG	1.59	1.30
1:R:402:LYS:CE	1:R:511:PHE:HD2	1.44	1.30
1:S:280:SER:OG	1:S:334:HIS:NE2	1.64	1.30
1:J:280:SER:OG	1:J:334:HIS:NE2	1.64	1.30
1:A:327:PRO:CG	1:L:237:PRO:HD3	1.59	1.29
1:H:605:SER:HB3	1:H:650:ILE:CG2	1.63	1.29
1:K:280:SER:OG	1:K:334:HIS:NE2	1.64	1.29
1:K:402:LYS:CE	1:K:511:PHE:HD2	1.44	1.29
1:C:402:LYS:CE	1:C:511:PHE:HD2	1.44	1.29
1:N:402:LYS:CE	1:N:511:PHE:HD2	1.44	1.29
1:O:605:SER:HB3	1:O:650:ILE:CG2	1.63	1.29
1:B:165:GLU:CG	1:D:325:LEU:CD2	1.93	1.29
1:E:605:SER:HB3	1:E:650:ILE:CG2	1.63	1.29
1:L:402:LYS:CE	1:L:511:PHE:HD2	1.44	1.29
1:Q:605:SER:HB3	1:Q:650:ILE:CG2	1.63	1.29
1:T:280:SER:OG	1:T:334:HIS:NE2	1.64	1.29
1:A:165:GLU:CG	1:E:325:LEU:CD2	1.93	1.29
1:F:313:GLU:OE1	1:K:255:LEU:HD13	1.24	1.29
1:F:439:THR:OG1	1:F:457:ILE:HG12	1.29	1.29
1:F:605:SER:HB3	1:F:650:ILE:CG2	1.63	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:439:THR:OG1	1:O:457:ILE:HG12	1.29	1.29
1:A:313:GLU:OE1	1:J:255:LEU:HD13	1.24	1.29
1:G:605:SER:HB3	1:G:650:ILE:CG2	1.63	1.29
1:H:280:SER:OG	1:H:334:HIS:NE2	1.64	1.29
1:I:605:SER:HB3	1:I:650:ILE:CG2	1.63	1.29
1:N:605:SER:HB3	1:N:650:ILE:CG2	1.63	1.29
1:T:605:SER:HB3	1:T:650:ILE:CG2	1.63	1.29
1:B:402:LYS:CE	1:B:511:PHE:HD2	1.44	1.28
1:G:402:LYS:CE	1:G:511:PHE:HD2	1.44	1.28
1:I:280:SER:OG	1:I:334:HIS:NE2	1.64	1.28
1:J:601:LEU:HD12	1:J:650:ILE:CD1	1.61	1.28
1:S:402:LYS:CE	1:S:511:PHE:HD2	1.44	1.28
1:S:605:SER:HB3	1:S:650:ILE:CG2	1.62	1.28
1:A:402:LYS:CE	1:A:511:PHE:HD2	1.44	1.28
1:D:402:LYS:CE	1:D:511:PHE:HD2	1.44	1.28
1:E:402:LYS:CE	1:E:511:PHE:HD2	1.44	1.28
1:J:605:SER:HB3	1:J:650:ILE:CG2	1.62	1.28
1:N:313:GLU:OE1	1:R:255:LEU:HD13	1.24	1.28
1:E:255:LEU:HD13	1:O:313:GLU:OE1	1.24	1.28
1:G:255:LEU:HD13	1:I:313:GLU:OE1	1.24	1.28
1:I:402:LYS:CE	1:I:511:PHE:HD2	1.44	1.28
1:T:439:THR:OG1	1:T:457:ILE:HG12	1.29	1.28
1:G:280:SER:OG	1:G:334:HIS:NE2	1.64	1.28
1:G:313:GLU:OE1	1:N:255:LEU:HD13	1.24	1.28
1:I:601:LEU:HD12	1:I:650:ILE:CD1	1.61	1.28
1:D:280:SER:OG	1:D:334:HIS:NE2	1.64	1.28
1:L:313:GLU:OE1	1:T:255:LEU:HD13	1.23	1.28
1:M:605:SER:HB3	1:M:650:ILE:CG2	1.63	1.28
1:S:601:LEU:HD12	1:S:650:ILE:CD1	1.61	1.28
1:Q:402:LYS:CE	1:Q:511:PHE:HD2	1.44	1.27
1:T:402:LYS:CE	1:T:511:PHE:HD2	1.44	1.27
1:L:605:SER:HB3	1:L:650:ILE:CG2	1.63	1.27
1:O:402:LYS:CE	1:O:511:PHE:HD2	1.44	1.27
1:P:605:SER:HB3	1:P:650:ILE:CG2	1.63	1.27
1:Q:601:LEU:HD12	1:Q:650:ILE:CD1	1.61	1.27
1:C:605:SER:HB3	1:C:650:ILE:CG2	1.63	1.27
1:E:280:SER:OG	1:E:334:HIS:NE2	1.64	1.27
1:K:605:SER:HB3	1:K:650:ILE:CG2	1.63	1.27
1:M:402:LYS:CE	1:M:511:PHE:HD2	1.44	1.27
1:P:280:SER:OG	1:P:334:HIS:NE2	1.64	1.27
1:P:439:THR:OG1	1:P:457:ILE:HG12	1.29	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:411:PHE:CD1	1:T:418:ASP:HB3	1.70	1.27
1:C:280:SER:OG	1:C:334:HIS:NE2	1.64	1.27
1:R:411:PHE:CD1	1:R:418:ASP:HB3	1.70	1.27
1:A:605:SER:HB3	1:A:650:ILE:CG2	1.63	1.27
1:D:605:SER:HB3	1:D:650:ILE:CG2	1.63	1.27
1:F:327:PRO:HD2	1:R:237:PRO:CG	1.65	1.27
1:J:411:PHE:CD1	1:J:418:ASP:HB3	1.70	1.27
1:B:327:PRO:HD2	1:F:237:PRO:CG	1.65	1.26
1:D:255:LEU:HD13	1:S:313:GLU:OE1	1.23	1.26
1:E:411:PHE:CD1	1:E:418:ASP:HB3	1.70	1.26
1:E:439:THR:OG1	1:E:457:ILE:HG12	1.29	1.26
1:G:292:TYR:CE2	1:I:311:THR:HG21	1.70	1.26
1:G:439:THR:OG1	1:G:457:ILE:HG12	1.29	1.26
1:I:411:PHE:CD1	1:I:418:ASP:HB3	1.70	1.26
1:J:313:GLU:OE1	1:P:255:LEU:HD13	1.24	1.26
1:K:601:LEU:HD12	1:K:650:ILE:CD1	1.61	1.26
1:L:280:SER:OG	1:L:334:HIS:NE2	1.64	1.26
1:R:605:SER:HB3	1:R:650:ILE:CG2	1.63	1.26
1:B:411:PHE:CD1	1:B:418:ASP:HB3	1.70	1.26
1:C:313:GLU:OE1	1:S:255:LEU:HD13	1.24	1.26
1:D:292:TYR:CE2	1:S:311:THR:HG21	1.71	1.26
1:P:311:THR:HG21	1:Q:292:TYR:CE2	1.71	1.26
1:B:402:LYS:HD3	1:B:511:PHE:CD2	1.71	1.26
1:B:439:THR:OG1	1:B:457:ILE:HG12	1.29	1.26
1:B:605:SER:HB3	1:B:650:ILE:CG2	1.63	1.26
1:H:311:THR:HG21	1:O:292:TYR:CE2	1.71	1.26
1:K:237:PRO:CG	1:N:327:PRO:HD2	1.65	1.26
1:N:311:THR:HG21	1:R:292:TYR:CE2	1.71	1.26
1:A:165:GLU:OE1	1:E:325:LEU:HB2	1.08	1.26
1:A:411:PHE:CD1	1:A:418:ASP:HB3	1.70	1.26
1:Q:402:LYS:HD3	1:Q:511:PHE:CD2	1.71	1.26
1:R:402:LYS:HD3	1:R:511:PHE:CD2	1.71	1.26
1:S:411:PHE:CD1	1:S:418:ASP:HB3	1.70	1.26
1:A:237:PRO:CG	1:D:327:PRO:HD2	1.65	1.26
1:E:327:PRO:HD2	1:J:237:PRO:CG	1.65	1.26
1:M:439:THR:OG1	1:M:457:ILE:HG12	1.29	1.26
1:P:402:LYS:HD3	1:P:511:PHE:CD2	1.71	1.26
1:F:411:PHE:CD1	1:F:418:ASP:HB3	1.70	1.25
1:G:311:THR:HG21	1:N:292:TYR:CE2	1.71	1.25
1:H:402:LYS:HD3	1:H:511:PHE:CD2	1.71	1.25
1:H:411:PHE:CD1	1:H:418:ASP:HB3	1.70	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:292:TYR:CE2	1:M:311:THR:HG21	1.71	1.25
1:M:237:PRO:CG	1:Q:327:PRO:HD2	1.65	1.25
1:N:402:LYS:HD3	1:N:511:PHE:CD2	1.71	1.25
1:C:311:THR:HG21	1:S:292:TYR:CE2	1.71	1.25
1:D:402:LYS:HD3	1:D:511:PHE:CD2	1.71	1.25
1:D:439:THR:OG1	1:D:457:ILE:HG12	1.29	1.25
1:F:402:LYS:HD3	1:F:511:PHE:CD2	1.71	1.25
1:I:601:LEU:CD1	1:I:650:ILE:HD11	1.64	1.25
1:A:327:PRO:HD2	1:L:237:PRO:CG	1.65	1.25
1:C:411:PHE:CD1	1:C:418:ASP:HB3	1.70	1.25
1:C:601:LEU:HD12	1:C:650:ILE:CD1	1.61	1.25
1:D:237:PRO:CG	1:L:327:PRO:HD2	1.65	1.25
1:E:311:THR:HG21	1:L:292:TYR:CE2	1.71	1.25
1:G:402:LYS:HD3	1:G:511:PHE:CD2	1.71	1.25
1:G:411:PHE:CD1	1:G:418:ASP:HB3	1.70	1.25
1:H:601:LEU:CD1	1:H:650:ILE:HD11	1.63	1.25
1:L:311:THR:HG21	1:T:292:TYR:CE2	1.71	1.25
1:M:411:PHE:CD1	1:M:418:ASP:HB3	1.70	1.25
1:M:601:LEU:CD1	1:M:650:ILE:HD11	1.63	1.25
1:O:280:SER:OG	1:O:334:HIS:NE2	1.64	1.25
1:O:402:LYS:HD3	1:O:511:PHE:CD2	1.71	1.25
1:P:225:GLY:N	1:Q:225:GLY:O	1.70	1.25
1:B:280:SER:CB	1:B:334:HIS:CD2	2.20	1.25
1:D:311:THR:HG21	1:F:292:TYR:CE2	1.71	1.25
1:G:225:GLY:N	1:N:225:GLY:O	1.70	1.25
1:J:311:THR:HG21	1:P:292:TYR:CE2	1.71	1.25
1:M:255:LEU:HD13	1:R:313:GLU:OE1	1.24	1.25
1:M:280:SER:OG	1:M:334:HIS:NE2	1.64	1.25
1:M:402:LYS:HD3	1:M:511:PHE:CD2	1.71	1.25
1:N:280:SER:OG	1:N:334:HIS:NE2	1.64	1.25
1:N:439:THR:OG1	1:N:457:ILE:HG12	1.29	1.25
1:A:251:TYR:CD1	1:D:328:PRO:C	2.01	1.25
1:A:311:THR:HG21	1:J:292:TYR:CE2	1.71	1.25
1:E:225:GLY:N	1:L:225:GLY:O	1.70	1.25
1:E:280:SER:CB	1:E:334:HIS:CD2	2.20	1.25
1:E:601:LEU:CD1	1:E:650:ILE:HD11	1.64	1.25
1:K:411:PHE:CD1	1:K:418:ASP:HB3	1.70	1.25
1:L:225:GLY:N	1:T:225:GLY:O	1.70	1.25
1:P:411:PHE:CD1	1:P:418:ASP:HB3	1.70	1.25
1:Q:280:SER:CB	1:Q:334:HIS:CD2	2.20	1.25
1:Q:439:THR:OG1	1:Q:457:ILE:HG12	1.29	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:327:PRO:HD2	1:T:237:PRO:CG	1.65	1.25
1:T:402:LYS:HD3	1:T:511:PHE:CD2	1.71	1.25
1:A:225:GLY:N	1:J:225:GLY:O	1.70	1.24
1:A:292:TYR:CE2	1:B:311:THR:HG21	1.70	1.24
1:C:225:GLY:O	1:K:225:GLY:N	1.70	1.24
1:J:225:GLY:N	1:P:225:GLY:O	1.70	1.24
1:L:325:LEU:CD2	1:S:165:GLU:CD	2.09	1.24
1:L:402:LYS:HD3	1:L:511:PHE:CD2	1.71	1.24
1:M:601:LEU:HD12	1:M:650:ILE:CD1	1.61	1.24
1:R:280:SER:OG	1:R:334:HIS:NE2	1.64	1.24
1:A:439:THR:OG1	1:A:457:ILE:HG12	1.29	1.24
1:B:292:TYR:CE2	1:Q:311:THR:HG21	1.71	1.24
1:D:411:PHE:CD1	1:D:418:ASP:HB3	1.70	1.24
1:O:402:LYS:NZ	1:O:511:PHE:HD2	1.26	1.24
1:S:402:LYS:HD3	1:S:511:PHE:CD2	1.71	1.24
1:T:280:SER:CB	1:T:334:HIS:CD2	2.20	1.24
1:B:165:GLU:OE1	1:D:325:LEU:HB2	1.08	1.24
1:C:292:TYR:CE2	1:K:311:THR:HG21	1.71	1.24
1:H:292:TYR:CE2	1:T:311:THR:HG21	1.71	1.24
1:J:601:LEU:CD1	1:J:650:ILE:HD11	1.64	1.24
1:L:411:PHE:CD1	1:L:418:ASP:HB3	1.70	1.24
1:M:451:TYR:N	1:M:458:VAL:CG2	2.01	1.24
1:Q:411:PHE:CD1	1:Q:418:ASP:HB3	1.70	1.24
1:A:165:GLU:CD	1:E:325:LEU:CD2	2.09	1.24
1:B:165:GLU:OE1	1:D:325:LEU:CD2	1.86	1.24
1:E:292:TYR:CE2	1:O:311:THR:HG21	1.71	1.24
1:E:402:LYS:HD3	1:E:511:PHE:CD2	1.71	1.24
1:F:225:GLY:N	1:K:225:GLY:O	1.70	1.24
1:F:311:THR:HG21	1:K:292:TYR:CE2	1.71	1.24
1:I:225:GLY:O	1:M:225:GLY:N	1.70	1.24
1:I:280:SER:CB	1:I:334:HIS:CD2	2.20	1.24
1:I:402:LYS:HD3	1:I:511:PHE:CD2	1.71	1.24
1:K:402:LYS:HD3	1:K:511:PHE:CD2	1.71	1.24
1:M:292:TYR:CE2	1:R:311:THR:HG21	1.71	1.24
1:O:411:PHE:CD1	1:O:418:ASP:HB3	1.70	1.24
1:Q:325:LEU:CD2	1:R:165:GLU:OE1	1.86	1.24
1:B:237:PRO:CG	1:R:327:PRO:HD2	1.65	1.24
1:C:225:GLY:N	1:S:225:GLY:O	1.70	1.24
1:E:451:TYR:N	1:E:458:VAL:CG2	2.01	1.24
1:G:451:TYR:N	1:G:458:VAL:CG2	2.01	1.24
1:H:451:TYR:N	1:H:458:VAL:CG2	2.01	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:402:LYS:HD3	1:J:511:PHE:CD2	1.71	1.24
1:S:280:SER:CB	1:S:334:HIS:CD2	2.20	1.24
1:D:225:GLY:N	1:F:225:GLY:O	1.70	1.23
1:F:165:GLU:OE1	1:N:325:LEU:CD2	1.86	1.23
1:G:280:SER:CB	1:G:334:HIS:CD2	2.20	1.23
1:M:225:GLY:O	1:R:225:GLY:N	1.70	1.23
1:M:251:TYR:CD1	1:Q:328:PRO:C	2.01	1.23
1:N:280:SER:CB	1:N:334:HIS:CD2	2.20	1.23
1:P:451:TYR:N	1:P:458:VAL:CG2	2.01	1.23
1:Q:165:GLU:OE1	1:R:325:LEU:HB2	1.08	1.23
1:A:402:LYS:NZ	1:A:511:PHE:HD2	1.26	1.23
1:B:280:SER:OG	1:B:334:HIS:NE2	1.64	1.23
1:J:280:SER:CB	1:J:334:HIS:CD2	2.20	1.23
1:L:280:SER:CB	1:L:334:HIS:CD2	2.20	1.23
1:L:325:LEU:CD2	1:S:165:GLU:OE1	1.86	1.23
1:L:601:LEU:HD12	1:L:650:ILE:CD1	1.61	1.23
1:M:275:LEU:CB	1:Q:275:LEU:HD11	1.69	1.23
1:N:411:PHE:CD1	1:N:418:ASP:HB3	1.70	1.23
1:O:451:TYR:N	1:O:458:VAL:CG2	2.01	1.23
1:Q:451:TYR:N	1:Q:458:VAL:CG2	2.01	1.23
1:A:451:TYR:N	1:A:458:VAL:CG2	2.01	1.23
1:C:402:LYS:HD3	1:C:511:PHE:CD2	1.71	1.23
1:D:280:SER:CB	1:D:334:HIS:CD2	2.20	1.23
1:D:601:LEU:HD12	1:D:650:ILE:CD1	1.61	1.23
1:F:325:LEU:CD2	1:N:165:GLU:OE1	1.86	1.23
1:I:439:THR:OG1	1:I:457:ILE:HG12	1.29	1.23
1:K:280:SER:CB	1:K:334:HIS:CD2	2.20	1.23
1:L:325:LEU:HB2	1:S:165:GLU:OE1	1.08	1.23
1:M:280:SER:CB	1:M:334:HIS:CD2	2.20	1.23
1:O:280:SER:CB	1:O:334:HIS:CD2	2.20	1.23
1:P:280:SER:CB	1:P:334:HIS:CD2	2.20	1.23
1:R:280:SER:CB	1:R:334:HIS:CD2	2.20	1.23
1:A:601:LEU:HD12	1:A:650:ILE:CD1	1.61	1.23
1:F:280:SER:CB	1:F:334:HIS:CD2	2.20	1.23
1:H:280:SER:CB	1:H:334:HIS:CD2	2.20	1.23
1:S:451:TYR:N	1:S:458:VAL:CG2	2.01	1.23
1:A:225:GLY:O	1:B:225:GLY:N	1.70	1.23
1:A:402:LYS:HD3	1:A:511:PHE:CD2	1.71	1.23
1:B:225:GLY:O	1:Q:225:GLY:N	1.70	1.23
1:C:451:TYR:N	1:C:458:VAL:CG2	2.01	1.23
1:F:325:LEU:HB2	1:N:165:GLU:OE1	1.08	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:225:GLY:N	1:O:225:GLY:O	1.70	1.23
1:K:275:LEU:CB	1:N:275:LEU:HD11	1.69	1.23
1:P:601:LEU:HD12	1:P:650:ILE:CD1	1.61	1.23
1:Q:165:GLU:OE1	1:R:325:LEU:CD2	1.86	1.23
1:A:165:GLU:OE1	1:E:325:LEU:CD2	1.86	1.22
1:A:275:LEU:HD11	1:L:275:LEU:CB	1.69	1.22
1:A:280:SER:CB	1:A:334:HIS:CD2	2.20	1.22
1:B:275:LEU:CA	1:R:275:LEU:CD1	2.15	1.22
1:F:275:LEU:CD1	1:R:275:LEU:CA	2.15	1.22
1:N:451:TYR:N	1:N:458:VAL:CG2	2.01	1.22
1:S:275:LEU:HD11	1:T:275:LEU:CB	1.69	1.22
1:C:280:SER:CB	1:C:334:HIS:CD2	2.20	1.22
1:E:275:LEU:HD11	1:J:275:LEU:CB	1.69	1.22
1:K:451:TYR:N	1:K:458:VAL:CG2	2.01	1.22
1:L:165:GLU:OE1	1:S:325:LEU:CD2	1.86	1.22
1:N:601:LEU:HD12	1:N:650:ILE:CD1	1.61	1.22
1:O:601:LEU:HD12	1:O:650:ILE:CD1	1.61	1.22
1:Q:280:SER:OG	1:Q:334:HIS:NE2	1.64	1.22
1:S:601:LEU:CD1	1:S:650:ILE:HD11	1.64	1.22
1:B:325:LEU:CD2	1:D:165:GLU:OE1	1.86	1.22
1:B:325:LEU:HB2	1:D:165:GLU:OE1	1.08	1.22
1:K:275:LEU:CA	1:N:275:LEU:CD1	2.15	1.22
1:L:165:GLU:CD	1:S:325:LEU:CD2	2.09	1.22
1:N:225:GLY:N	1:R:225:GLY:O	1.70	1.22
1:A:325:LEU:CD2	1:E:165:GLU:OE1	1.86	1.22
1:H:402:LYS:NZ	1:H:511:PHE:HD2	1.26	1.22
1:I:451:TYR:N	1:I:458:VAL:CG2	2.01	1.22
1:Q:325:LEU:HB2	1:R:165:GLU:OE1	1.08	1.22
1:R:451:TYR:N	1:R:458:VAL:CG2	2.01	1.22
1:A:280:SER:OG	1:A:334:HIS:NE2	1.64	1.22
1:D:225:GLY:O	1:S:225:GLY:N	1.70	1.22
1:F:165:GLU:OE1	1:N:325:LEU:HB2	1.08	1.22
1:G:225:GLY:O	1:I:225:GLY:N	1.70	1.22
1:L:451:TYR:N	1:L:458:VAL:CG2	2.01	1.22
1:B:451:TYR:N	1:B:458:VAL:CG2	2.01	1.21
1:S:275:LEU:CD1	1:T:275:LEU:CA	2.15	1.21
1:B:275:LEU:CB	1:R:275:LEU:HD11	1.69	1.21
1:B:402:LYS:CD	1:B:511:PHE:CD2	2.24	1.21
1:G:601:LEU:HD12	1:G:650:ILE:CD1	1.61	1.21
1:J:402:LYS:NZ	1:J:511:PHE:HD2	1.26	1.21
1:M:275:LEU:CA	1:Q:275:LEU:CD1	2.15	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:275:LEU:CB	1:D:275:LEU:HD11	1.69	1.21
1:C:402:LYS:CD	1:C:511:PHE:CD2	2.24	1.21
1:E:275:LEU:CD1	1:J:275:LEU:CA	2.15	1.21
1:F:402:LYS:CD	1:F:511:PHE:CD2	2.24	1.21
1:J:451:TYR:N	1:J:458:VAL:CG2	2.01	1.21
1:L:601:LEU:CD1	1:L:650:ILE:HD11	1.64	1.21
1:T:451:TYR:N	1:T:458:VAL:CG2	2.01	1.21
1:D:251:TYR:CD1	1:L:328:PRO:C	2.01	1.21
1:E:225:GLY:O	1:O:225:GLY:N	1.70	1.21
1:F:601:LEU:CD1	1:F:650:ILE:HD11	1.63	1.21
1:G:402:LYS:CD	1:G:511:PHE:CD2	2.24	1.21
1:L:402:LYS:CD	1:L:511:PHE:CD2	2.24	1.21
1:N:402:LYS:CD	1:N:511:PHE:CD2	2.24	1.21
1:Q:165:GLU:CD	1:R:325:LEU:CD2	2.09	1.21
1:S:402:LYS:CD	1:S:511:PHE:CD2	2.24	1.21
1:D:451:TYR:N	1:D:458:VAL:CG2	2.01	1.20
1:F:451:TYR:N	1:F:458:VAL:CG2	2.01	1.20
1:O:601:LEU:CD1	1:O:650:ILE:HD11	1.63	1.20
1:P:402:LYS:CD	1:P:511:PHE:CD2	2.24	1.20
1:B:275:LEU:HD11	1:F:275:LEU:CB	1.69	1.20
1:D:271:LEU:HB3	1:L:324:LEU:CD2	1.71	1.20
1:F:324:LEU:CD2	1:R:271:LEU:HB3	1.71	1.20
1:F:402:LYS:NZ	1:F:511:PHE:HD2	1.26	1.20
1:A:325:LEU:HB2	1:E:165:GLU:OE1	1.08	1.20
1:T:402:LYS:CD	1:T:511:PHE:CD2	2.24	1.20
1:A:271:LEU:HB3	1:D:324:LEU:CD2	1.71	1.20
1:D:275:LEU:CB	1:L:275:LEU:HD11	1.69	1.20
1:F:325:LEU:CD2	1:N:165:GLU:CD	2.09	1.20
1:K:601:LEU:CD1	1:K:650:ILE:HD11	1.63	1.20
1:O:402:LYS:CD	1:O:511:PHE:CD2	2.24	1.20
1:Q:402:LYS:CD	1:Q:511:PHE:CD2	2.24	1.20
1:R:402:LYS:CD	1:R:511:PHE:CD2	2.24	1.20
1:F:275:LEU:HD11	1:R:275:LEU:CB	1.69	1.20
1:K:402:LYS:CD	1:K:511:PHE:CD2	2.24	1.20
1:H:225:GLY:O	1:T:225:GLY:N	1.70	1.19
1:I:402:LYS:CD	1:I:511:PHE:CD2	2.24	1.19
1:J:402:LYS:CD	1:J:511:PHE:CD2	2.24	1.19
1:B:165:GLU:CD	1:D:325:LEU:CD2	2.09	1.19
1:B:601:LEU:CD1	1:B:650:ILE:HD11	1.63	1.19
1:M:271:LEU:HB3	1:Q:324:LEU:CD2	1.71	1.19
1:S:402:LYS:NZ	1:S:511:PHE:HD2	1.26	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:325:LEU:CD2	1:E:165:GLU:CD	2.09	1.19
1:A:402:LYS:CD	1:A:511:PHE:CD2	2.24	1.19
1:D:402:LYS:CD	1:D:511:PHE:CD2	2.24	1.19
1:E:402:LYS:CD	1:E:511:PHE:CD2	2.24	1.19
1:F:328:PRO:C	1:R:251:TYR:CD1	2.01	1.19
1:F:601:LEU:HD12	1:F:650:ILE:CD1	1.61	1.19
1:M:402:LYS:CD	1:M:511:PHE:CD2	2.24	1.19
1:N:601:LEU:CD1	1:N:650:ILE:HD11	1.63	1.19
1:Q:402:LYS:NZ	1:Q:511:PHE:HD2	1.26	1.19
1:A:275:LEU:CA	1:D:275:LEU:CD1	2.15	1.19
1:H:402:LYS:CD	1:H:511:PHE:CD2	2.24	1.19
1:K:402:LYS:NZ	1:K:511:PHE:HD2	1.26	1.19
1:P:226:VAL:HG21	1:Q:226:VAL:HG13	1.25	1.19
1:Q:325:LEU:CD2	1:R:165:GLU:CD	2.09	1.19
1:T:601:LEU:HD12	1:T:650:ILE:CD1	1.61	1.19
1:B:271:LEU:HB3	1:R:324:LEU:CD2	1.71	1.19
1:L:165:GLU:OE1	1:S:325:LEU:HB2	1.08	1.19
1:P:601:LEU:CD1	1:P:650:ILE:HD11	1.63	1.19
1:C:601:LEU:CD1	1:C:650:ILE:HD11	1.64	1.18
1:G:255:LEU:CD1	1:I:313:GLU:OE1	1.91	1.18
1:G:601:LEU:CD1	1:G:650:ILE:HD11	1.64	1.18
1:M:255:LEU:CD1	1:R:313:GLU:OE1	1.92	1.18
1:S:324:LEU:CD2	1:T:271:LEU:HB3	1.71	1.18
1:D:255:LEU:CD1	1:S:313:GLU:OE1	1.91	1.18
1:E:226:VAL:HG21	1:L:226:VAL:HG13	1.25	1.18
1:E:324:LEU:CD2	1:J:271:LEU:HB3	1.71	1.18
1:A:255:LEU:CD1	1:B:313:GLU:OE1	1.91	1.18
1:A:324:LEU:CD2	1:L:271:LEU:HB3	1.71	1.18
1:B:402:LYS:NZ	1:B:511:PHE:HD2	1.26	1.18
1:K:271:LEU:HB3	1:N:324:LEU:CD2	1.71	1.18
1:P:313:GLU:OE1	1:Q:255:LEU:CD1	1.91	1.18
1:B:324:LEU:CD2	1:F:271:LEU:HB3	1.72	1.18
1:E:313:GLU:OE1	1:L:255:LEU:CD1	1.92	1.18
1:G:313:GLU:OE1	1:N:255:LEU:CD1	1.91	1.18
1:I:255:LEU:CD1	1:M:313:GLU:OE1	1.91	1.18
1:P:451:TYR:N	1:P:458:VAL:HG23	1.59	1.18
1:B:601:LEU:HD12	1:B:650:ILE:CD1	1.61	1.17
1:H:601:LEU:HD12	1:H:650:ILE:CD1	1.61	1.17
1:I:226:VAL:HG13	1:M:226:VAL:HG21	1.25	1.17
1:L:313:GLU:OE1	1:T:255:LEU:CD1	1.91	1.17
1:A:601:LEU:CD1	1:A:650:ILE:HD11	1.63	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:325:LEU:CD2	1:D:165:GLU:CD	2.09	1.17
1:D:226:VAL:HG21	1:F:226:VAL:HG13	1.25	1.17
1:A:240:VAL:CG1	1:D:330:SER:C	2.18	1.17
1:F:313:GLU:OE1	1:K:255:LEU:CD1	1.92	1.17
1:J:313:GLU:OE1	1:P:255:LEU:CD1	1.91	1.17
1:B:255:LEU:CD1	1:Q:313:GLU:OE1	1.91	1.17
1:D:313:GLU:OE1	1:F:255:LEU:CD1	1.92	1.17
1:F:330:SER:C	1:R:240:VAL:CG1	2.18	1.17
1:K:240:VAL:CG1	1:N:330:SER:C	2.18	1.17
1:A:313:GLU:OE1	1:J:255:LEU:CD1	1.91	1.17
1:C:255:LEU:CD1	1:K:313:GLU:OE1	1.91	1.17
1:F:327:PRO:CG	1:R:237:PRO:CD	2.23	1.17
1:I:402:LYS:NZ	1:I:511:PHE:HD2	1.26	1.17
1:S:402:LYS:CE	1:S:511:PHE:CD2	2.27	1.17
1:H:313:GLU:OE1	1:O:255:LEU:CD1	1.91	1.16
1:I:451:TYR:H	1:I:458:VAL:HG21	1.00	1.16
1:J:226:VAL:HG21	1:P:226:VAL:HG13	1.25	1.16
1:J:451:TYR:H	1:J:458:VAL:HG21	1.00	1.16
1:P:451:TYR:H	1:P:458:VAL:HG21	1.00	1.16
1:Q:451:TYR:N	1:Q:458:VAL:HG23	1.60	1.16
1:R:451:TYR:N	1:R:458:VAL:HG23	1.59	1.16
1:A:451:TYR:N	1:A:458:VAL:HG23	1.60	1.16
1:B:327:PRO:CG	1:F:237:PRO:CD	2.24	1.16
1:C:226:VAL:HG21	1:S:226:VAL:HG13	1.25	1.16
1:C:313:GLU:OE1	1:S:255:LEU:CD1	1.91	1.16
1:B:237:PRO:CD	1:R:327:PRO:CG	2.23	1.16
1:B:330:SER:C	1:F:240:VAL:CG1	2.18	1.16
1:E:255:LEU:CD1	1:O:313:GLU:OE1	1.91	1.16
1:G:451:TYR:N	1:G:458:VAL:HG23	1.59	1.16
1:D:240:VAL:CG1	1:L:330:SER:C	2.18	1.16
1:G:447:THR:HA	1:G:452:ASP:OD2	1.46	1.16
1:H:255:LEU:CD1	1:T:313:GLU:OE1	1.92	1.16
1:N:313:GLU:OE1	1:R:255:LEU:CD1	1.91	1.16
1:R:601:LEU:HD12	1:R:650:ILE:CD1	1.61	1.16
1:T:451:TYR:N	1:T:458:VAL:HG23	1.60	1.16
1:A:328:PRO:C	1:L:251:TYR:CD1	2.01	1.16
1:O:451:TYR:N	1:O:458:VAL:HG23	1.60	1.16
1:R:447:THR:HA	1:R:452:ASP:OD2	1.46	1.16
1:R:601:LEU:CD1	1:R:650:ILE:HD11	1.64	1.16
1:A:327:PRO:CG	1:L:237:PRO:CD	2.23	1.15
1:D:237:PRO:CD	1:L:327:PRO:CD	2.25	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:330:SER:C	1:J:240:VAL:CG1	2.18	1.15
1:E:437:VAL:CG1	1:E:439:THR:H	1.60	1.15
1:K:437:VAL:CG1	1:K:439:THR:H	1.59	1.15
1:M:237:PRO:CD	1:Q:327:PRO:CG	2.23	1.15
1:S:330:SER:C	1:T:240:VAL:CG1	2.18	1.15
1:T:402:LYS:NZ	1:T:511:PHE:HD2	1.26	1.15
1:A:237:PRO:HG3	1:D:327:PRO:HD2	1.18	1.15
1:A:237:PRO:CD	1:D:327:PRO:CG	2.24	1.15
1:A:437:VAL:CG1	1:A:439:THR:H	1.60	1.15
1:C:437:VAL:CG1	1:C:439:THR:H	1.59	1.15
1:E:447:THR:HA	1:E:452:ASP:OD2	1.46	1.15
1:K:237:PRO:CD	1:N:327:PRO:CD	2.25	1.15
1:K:451:TYR:N	1:K:458:VAL:HG23	1.59	1.15
1:Q:427:SER:OG	1:Q:429:LEU:CD2	1.95	1.15
1:R:437:VAL:CG1	1:R:439:THR:H	1.60	1.15
1:S:328:PRO:C	1:T:251:TYR:CD1	2.01	1.15
1:A:330:SER:C	1:L:240:VAL:CG1	2.18	1.15
1:B:328:PRO:C	1:F:251:TYR:CD1	2.01	1.15
1:B:427:SER:OG	1:B:429:LEU:CD2	1.95	1.15
1:E:327:PRO:CG	1:J:237:PRO:CD	2.23	1.15
1:F:427:SER:OG	1:F:429:LEU:CD2	1.95	1.15
1:I:402:LYS:CE	1:I:511:PHE:CD2	2.27	1.15
1:J:427:SER:OG	1:J:429:LEU:CD2	1.95	1.15
1:L:451:TYR:N	1:L:458:VAL:HG23	1.59	1.15
1:M:240:VAL:CG1	1:Q:330:SER:C	2.18	1.15
1:O:437:VAL:CG1	1:O:439:THR:H	1.60	1.15
1:Q:437:VAL:CG1	1:Q:439:THR:H	1.60	1.15
1:S:327:PRO:CG	1:T:237:PRO:CD	2.24	1.15
1:A:427:SER:OG	1:A:429:LEU:CD2	1.95	1.15
1:B:226:VAL:HG13	1:Q:226:VAL:HG21	1.25	1.15
1:L:226:VAL:HG21	1:T:226:VAL:HG13	1.25	1.15
1:L:427:SER:OG	1:L:429:LEU:CD2	1.95	1.15
1:M:427:SER:OG	1:M:429:LEU:CD2	1.95	1.15
1:M:447:THR:HA	1:M:452:ASP:OD2	1.46	1.15
1:N:601:LEU:HD12	1:N:650:ILE:HD13	1.15	1.15
1:P:402:LYS:CE	1:P:511:PHE:CD2	2.27	1.15
1:S:437:VAL:CG1	1:S:439:THR:H	1.60	1.15
1:B:240:VAL:CG1	1:R:330:SER:C	2.18	1.15
1:C:402:LYS:NZ	1:C:511:PHE:HD2	1.26	1.15
1:C:447:THR:HA	1:C:452:ASP:OD2	1.46	1.15
1:D:237:PRO:HG3	1:L:327:PRO:HD2	1.18	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:275:LEU:CA	1:L:275:LEU:CD1	2.15	1.15
1:D:601:LEU:HD12	1:D:650:ILE:HD13	1.15	1.15
1:F:447:THR:HA	1:F:452:ASP:OD2	1.46	1.15
1:H:601:LEU:HD12	1:H:650:ILE:HD13	1.15	1.15
1:L:601:LEU:HD12	1:L:650:ILE:HD13	1.15	1.15
1:M:437:VAL:CG1	1:M:439:THR:H	1.60	1.15
1:O:427:SER:OG	1:O:429:LEU:CD2	1.95	1.15
1:Q:601:LEU:CD1	1:Q:650:ILE:HD11	1.63	1.15
1:A:601:LEU:HD12	1:A:650:ILE:HD13	1.15	1.14
1:B:165:GLU:HG3	1:D:325:LEU:HD21	1.15	1.14
1:F:327:PRO:CD	1:R:237:PRO:CD	2.25	1.14
1:G:427:SER:OG	1:G:429:LEU:CD2	1.95	1.14
1:H:427:SER:OG	1:H:429:LEU:CD2	1.95	1.14
1:J:437:VAL:CG1	1:J:439:THR:H	1.60	1.14
1:P:427:SER:OG	1:P:429:LEU:CD2	1.95	1.14
1:R:427:SER:OG	1:R:429:LEU:CD2	1.95	1.14
1:T:447:THR:HA	1:T:452:ASP:OD2	1.46	1.14
1:C:226:VAL:HG13	1:K:226:VAL:HG21	1.24	1.14
1:C:427:SER:OG	1:C:429:LEU:CD2	1.95	1.14
1:D:237:PRO:CD	1:L:327:PRO:CG	2.24	1.14
1:F:402:LYS:CE	1:F:511:PHE:CD2	2.27	1.14
1:F:427:SER:OG	1:F:429:LEU:HD21	1.47	1.14
1:F:437:VAL:CG1	1:F:439:THR:H	1.60	1.14
1:H:427:SER:OG	1:H:429:LEU:HD21	1.47	1.14
1:I:427:SER:OG	1:I:429:LEU:CD2	1.95	1.14
1:K:447:THR:HA	1:K:452:ASP:OD2	1.46	1.14
1:L:437:VAL:CG1	1:L:439:THR:H	1.60	1.14
1:N:427:SER:OG	1:N:429:LEU:HD21	1.47	1.14
1:P:437:VAL:CG1	1:P:439:THR:H	1.60	1.14
1:Q:280:SER:CB	1:Q:334:HIS:NE2	2.11	1.14
1:C:427:SER:OG	1:C:429:LEU:HD21	1.47	1.14
1:D:427:SER:OG	1:D:429:LEU:CD2	1.95	1.14
1:G:226:VAL:HG13	1:I:226:VAL:HG21	1.24	1.14
1:G:280:SER:CB	1:G:334:HIS:NE2	2.11	1.14
1:I:437:VAL:CG1	1:I:439:THR:H	1.59	1.14
1:I:451:TYR:N	1:I:458:VAL:HG23	1.59	1.14
1:P:447:THR:HA	1:P:452:ASP:OD2	1.46	1.14
1:R:451:TYR:H	1:R:458:VAL:HG21	1.00	1.14
1:A:237:PRO:CD	1:D:327:PRO:CD	2.25	1.14
1:C:402:LYS:CE	1:C:511:PHE:CD2	2.27	1.14
1:D:451:TYR:N	1:D:458:VAL:HG23	1.60	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:427:SER:OG	1:E:429:LEU:HD21	1.47	1.14
1:H:280:SER:CB	1:H:334:HIS:NE2	2.11	1.14
1:K:601:LEU:HD12	1:K:650:ILE:HD13	1.15	1.14
1:M:427:SER:OG	1:M:429:LEU:HD21	1.47	1.14
1:N:451:TYR:N	1:N:458:VAL:HG23	1.60	1.14
1:R:280:SER:CB	1:R:334:HIS:NE2	2.11	1.14
1:S:427:SER:OG	1:S:429:LEU:CD2	1.95	1.14
1:A:327:PRO:CD	1:L:237:PRO:CD	2.25	1.14
1:A:447:THR:HA	1:A:452:ASP:OD2	1.46	1.14
1:B:327:PRO:CD	1:F:237:PRO:CD	2.25	1.14
1:D:601:LEU:CD1	1:D:650:ILE:HD11	1.64	1.14
1:J:427:SER:OG	1:J:429:LEU:HD21	1.47	1.14
1:L:280:SER:CB	1:L:334:HIS:NE2	2.11	1.14
1:M:280:SER:CB	1:M:334:HIS:NE2	2.11	1.14
1:O:427:SER:OG	1:O:429:LEU:HD21	1.47	1.14
1:Q:447:THR:HA	1:Q:452:ASP:OD2	1.46	1.14
1:A:165:GLU:HG3	1:E:325:LEU:HD21	1.15	1.13
1:B:437:VAL:CG1	1:B:439:THR:H	1.60	1.13
1:B:451:TYR:N	1:B:458:VAL:HG23	1.59	1.13
1:E:327:PRO:CD	1:J:237:PRO:CD	2.25	1.13
1:F:325:LEU:HD21	1:N:165:GLU:HG3	1.15	1.13
1:G:402:LYS:NZ	1:G:511:PHE:HD2	1.26	1.13
1:G:427:SER:OG	1:G:429:LEU:HD21	1.47	1.13
1:G:437:VAL:CG1	1:G:439:THR:H	1.60	1.13
1:J:451:TYR:N	1:J:458:VAL:HG23	1.60	1.13
1:K:237:PRO:CD	1:N:327:PRO:CG	2.24	1.13
1:K:427:SER:OG	1:K:429:LEU:CD2	1.95	1.13
1:L:427:SER:OG	1:L:429:LEU:HD21	1.47	1.13
1:N:280:SER:CB	1:N:334:HIS:NE2	2.11	1.13
1:O:447:THR:HA	1:O:452:ASP:OD2	1.46	1.13
1:S:280:SER:CB	1:S:334:HIS:NE2	2.11	1.13
1:S:327:PRO:CD	1:T:237:PRO:CD	2.25	1.13
1:T:402:LYS:CE	1:T:511:PHE:CD2	2.27	1.13
1:T:601:LEU:CD1	1:T:650:ILE:HD11	1.63	1.13
1:D:451:TYR:HA	1:D:458:VAL:CG2	1.79	1.13
1:E:601:LEU:HD12	1:E:650:ILE:HD13	1.15	1.13
1:H:437:VAL:CG1	1:H:439:THR:H	1.60	1.13
1:H:447:THR:HA	1:H:452:ASP:OD2	1.46	1.13
1:I:280:SER:CB	1:I:334:HIS:NE2	2.11	1.13
1:I:427:SER:OG	1:I:429:LEU:HD21	1.47	1.13
1:K:437:VAL:HG12	1:K:438:THR:H	0.99	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:237:PRO:CD	1:Q:327:PRO:CD	2.25	1.13
1:N:427:SER:OG	1:N:429:LEU:CD2	1.95	1.13
1:N:447:THR:HA	1:N:452:ASP:OD2	1.46	1.13
1:Q:437:VAL:HG12	1:Q:438:THR:H	0.99	1.13
1:T:427:SER:OG	1:T:429:LEU:HD21	1.47	1.13
1:B:237:PRO:HG3	1:R:327:PRO:HD2	1.17	1.13
1:D:437:VAL:CG1	1:D:439:THR:H	1.60	1.13
1:K:280:SER:CB	1:K:334:HIS:NE2	2.10	1.13
1:F:601:LEU:HD12	1:F:650:ILE:HD13	1.15	1.13
1:J:447:THR:HA	1:J:452:ASP:OD2	1.46	1.13
1:O:451:TYR:HA	1:O:458:VAL:CG2	1.79	1.13
1:Q:451:TYR:HA	1:Q:458:VAL:CG2	1.79	1.13
1:Q:601:LEU:HD12	1:Q:650:ILE:HD13	1.15	1.13
1:S:427:SER:OG	1:S:429:LEU:HD21	1.47	1.13
1:T:427:SER:OG	1:T:429:LEU:CD2	1.95	1.13
1:T:437:VAL:CG1	1:T:439:THR:H	1.60	1.13
1:T:451:TYR:H	1:T:458:VAL:HG21	1.00	1.13
1:B:251:TYR:CD1	1:R:328:PRO:C	2.01	1.12
1:B:402:LYS:CE	1:B:511:PHE:CD2	2.27	1.12
1:B:451:TYR:HA	1:B:458:VAL:CG2	1.79	1.12
1:E:451:TYR:HA	1:E:458:VAL:CG2	1.79	1.12
1:E:601:LEU:HD12	1:E:650:ILE:CD1	1.61	1.12
1:M:226:VAL:HG13	1:R:226:VAL:HG21	1.25	1.12
1:M:402:LYS:NZ	1:M:511:PHE:HD2	1.26	1.12
1:N:437:VAL:CG1	1:N:439:THR:H	1.59	1.12
1:N:451:TYR:HA	1:N:458:VAL:CG2	1.79	1.13
1:T:451:TYR:HA	1:T:458:VAL:CG2	1.79	1.13
1:K:427:SER:OG	1:K:429:LEU:HD21	1.47	1.12
1:L:447:THR:HA	1:L:452:ASP:OD2	1.46	1.12
1:A:275:LEU:CD1	1:L:275:LEU:CA	2.15	1.12
1:A:427:SER:OG	1:A:429:LEU:HD21	1.47	1.12
1:A:451:TYR:HA	1:A:458:VAL:CG2	1.79	1.12
1:D:451:TYR:H	1:D:458:VAL:HG21	1.00	1.12
1:E:402:LYS:NZ	1:E:511:PHE:HD2	1.26	1.12
1:E:427:SER:OG	1:E:429:LEU:CD2	1.95	1.12
1:F:165:GLU:CD	1:N:325:LEU:CD2	2.09	1.12
1:K:237:PRO:HG3	1:N:327:PRO:HD2	1.18	1.12
1:K:451:TYR:H	1:K:458:VAL:HG21	1.00	1.12
1:K:451:TYR:HA	1:K:458:VAL:CG2	1.79	1.12
1:L:402:LYS:CE	1:L:511:PHE:CD2	2.27	1.12
1:L:451:TYR:HA	1:L:458:VAL:CG2	1.79	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:451:TYR:N	1:M:458:VAL:HG23	1.59	1.12
1:P:280:SER:CB	1:P:334:HIS:NE2	2.11	1.12
1:P:427:SER:OG	1:P:429:LEU:HD21	1.47	1.12
1:B:237:PRO:CD	1:R:327:PRO:CD	2.25	1.12
1:D:447:THR:HA	1:D:452:ASP:OD2	1.46	1.12
1:F:226:VAL:HG21	1:K:226:VAL:HG13	1.25	1.12
1:J:451:TYR:HA	1:J:458:VAL:CG2	1.79	1.12
1:P:451:TYR:HA	1:P:458:VAL:CG2	1.79	1.12
1:R:451:TYR:HA	1:R:458:VAL:CG2	1.79	1.12
1:A:437:VAL:HG12	1:A:438:THR:H	0.99	1.12
1:B:275:LEU:CD1	1:F:275:LEU:CA	2.15	1.12
1:I:451:TYR:HA	1:I:458:VAL:CG2	1.79	1.12
1:M:601:LEU:HD12	1:M:650:ILE:HD13	1.15	1.12
1:Q:402:LYS:CE	1:Q:511:PHE:CD2	2.27	1.12
1:C:451:TYR:H	1:C:458:VAL:HG21	1.00	1.12
1:E:451:TYR:H	1:E:458:VAL:HG21	1.00	1.12
1:F:280:SER:CB	1:F:334:HIS:NE2	2.11	1.12
1:G:223:GLY:O	1:N:259:ARG:CZ	1.98	1.12
1:I:447:THR:HA	1:I:452:ASP:OD2	1.46	1.12
1:L:165:GLU:HG3	1:S:325:LEU:HD21	1.15	1.12
1:B:427:SER:OG	1:B:429:LEU:HD21	1.47	1.11
1:C:451:TYR:HA	1:C:458:VAL:CG2	1.79	1.11
1:D:223:GLY:O	1:F:259:ARG:CZ	1.98	1.11
1:E:437:VAL:HG12	1:E:438:THR:H	0.99	1.11
1:F:575:TYR:HA	1:N:480:LYS:NZ	1.65	1.11
1:H:223:GLY:O	1:O:259:ARG:CZ	1.98	1.11
1:J:601:LEU:HD12	1:J:650:ILE:HD13	1.15	1.11
1:M:259:ARG:CZ	1:R:223:GLY:O	1.98	1.11
1:O:280:SER:CB	1:O:334:HIS:NE2	2.11	1.11
1:Q:575:TYR:HA	1:R:480:LYS:NZ	1.65	1.11
1:A:226:VAL:HG13	1:B:226:VAL:HG21	1.24	1.11
1:A:259:ARG:CZ	1:B:223:GLY:O	1.98	1.11
1:A:280:SER:CB	1:A:334:HIS:NE2	2.11	1.11
1:E:226:VAL:HG13	1:O:226:VAL:HG21	1.25	1.11
1:F:451:TYR:HA	1:F:458:VAL:CG2	1.79	1.11
1:G:259:ARG:CZ	1:I:223:GLY:O	1.98	1.11
1:G:402:LYS:CE	1:G:511:PHE:CD2	2.27	1.11
1:G:451:TYR:HA	1:G:458:VAL:CG2	1.79	1.11
1:H:259:ARG:CZ	1:T:223:GLY:O	1.98	1.11
1:I:259:ARG:CZ	1:M:223:GLY:O	1.99	1.11
1:K:251:TYR:CD1	1:N:328:PRO:C	2.01	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:237:PRO:HG3	1:Q:327:PRO:HD2	1.18	1.11
1:N:226:VAL:HG21	1:R:226:VAL:HG13	1.25	1.11
1:A:223:GLY:O	1:J:259:ARG:CZ	1.98	1.11
1:D:427:SER:OG	1:D:429:LEU:HD21	1.47	1.11
1:F:223:GLY:O	1:K:259:ARG:CZ	1.98	1.11
1:G:601:LEU:HD12	1:G:650:ILE:HD13	1.15	1.11
1:H:451:TYR:HA	1:H:458:VAL:CG2	1.79	1.11
1:M:451:TYR:HA	1:M:458:VAL:CG2	1.79	1.11
1:N:223:GLY:O	1:R:259:ARG:CZ	1.99	1.11
1:S:451:TYR:HA	1:S:458:VAL:CG2	1.79	1.11
1:B:259:ARG:CZ	1:Q:223:GLY:O	1.98	1.11
1:C:259:ARG:CZ	1:K:223:GLY:O	1.98	1.11
1:C:601:LEU:HD12	1:C:650:ILE:HD13	1.15	1.11
1:E:402:LYS:CE	1:E:511:PHE:CD2	2.27	1.11
1:F:327:PRO:HD2	1:R:237:PRO:HG3	1.18	1.11
1:R:427:SER:OG	1:R:429:LEU:HD21	1.47	1.11
1:S:447:THR:HA	1:S:452:ASP:OD2	1.46	1.11
1:D:280:SER:CB	1:D:334:HIS:NE2	2.11	1.11
1:E:280:SER:CB	1:E:334:HIS:NE2	2.11	1.11
1:F:437:VAL:HG12	1:F:438:THR:H	0.99	1.11
1:F:451:TYR:N	1:F:458:VAL:HG23	1.59	1.11
1:H:402:LYS:CE	1:H:511:PHE:CD2	2.27	1.11
1:L:223:GLY:O	1:T:259:ARG:CZ	1.98	1.11
1:T:280:SER:CB	1:T:334:HIS:NE2	2.11	1.11
1:A:325:LEU:HD21	1:E:165:GLU:HG3	1.15	1.10
1:A:480:LYS:NZ	1:E:575:TYR:HA	1.66	1.10
1:B:451:TYR:H	1:B:458:VAL:HG21	1.00	1.10
1:H:437:VAL:HG12	1:H:438:THR:H	0.99	1.10
1:H:451:TYR:H	1:H:458:VAL:HG21	1.00	1.10
1:P:223:GLY:O	1:Q:259:ARG:CZ	1.99	1.10
1:Q:427:SER:OG	1:Q:429:LEU:HD21	1.47	1.10
1:A:575:TYR:HA	1:E:480:LYS:NZ	1.66	1.10
1:B:447:THR:HA	1:B:452:ASP:OD2	1.46	1.10
1:C:223:GLY:O	1:S:259:ARG:CZ	1.99	1.10
1:G:451:TYR:H	1:G:458:VAL:HG21	1.00	1.10
1:J:223:GLY:O	1:P:259:ARG:CZ	1.98	1.10
1:N:402:LYS:NZ	1:N:511:PHE:HD2	1.26	1.10
1:O:504:ASN:HB3	1:O:505:PRO:HD2	1.33	1.10
1:T:504:ASN:HB3	1:T:505:PRO:HD2	1.33	1.10
1:T:510:VAL:HG12	1:T:511:PHE:H	1.17	1.10
1:B:280:SER:CB	1:B:334:HIS:NE2	2.11	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:223:GLY:O	1:L:259:ARG:CZ	1.99	1.10
1:H:504:ASN:HB3	1:H:505:PRO:HD2	1.33	1.10
1:J:280:SER:CB	1:J:334:HIS:NE2	2.11	1.10
1:P:402:LYS:NZ	1:P:511:PHE:HD2	1.26	1.10
1:Q:480:LYS:NZ	1:R:575:TYR:HA	1.66	1.10
1:Q:504:ASN:HB3	1:Q:505:PRO:HD2	1.33	1.10
1:A:451:TYR:H	1:A:458:VAL:HG21	1.00	1.10
1:B:437:VAL:CG1	1:B:438:THR:H	1.65	1.10
1:E:259:ARG:CZ	1:O:223:GLY:O	1.98	1.10
1:F:437:VAL:CG1	1:F:438:THR:H	1.65	1.10
1:J:504:ASN:HB3	1:J:505:PRO:HD2	1.33	1.10
1:K:510:VAL:HG12	1:K:511:PHE:H	1.17	1.10
1:L:437:VAL:HG12	1:L:438:THR:H	0.99	1.10
1:O:451:TYR:H	1:O:458:VAL:HG21	1.00	1.10
1:C:280:SER:CB	1:C:334:HIS:NE2	2.11	1.10
1:E:327:PRO:HD2	1:J:237:PRO:HG3	1.18	1.10
1:H:226:VAL:HG21	1:O:226:VAL:HG13	1.25	1.10
1:L:325:LEU:HD21	1:S:165:GLU:HG3	1.15	1.10
1:S:327:PRO:HD2	1:T:237:PRO:HG3	1.18	1.10
1:S:451:TYR:H	1:S:458:VAL:HG21	1.00	1.10
1:F:480:LYS:NZ	1:N:575:TYR:HA	1.66	1.09
1:J:437:VAL:CG1	1:J:438:THR:H	1.65	1.09
1:O:437:VAL:HG12	1:O:438:THR:H	0.99	1.09
1:B:480:LYS:NZ	1:D:575:TYR:HA	1.66	1.09
1:B:575:TYR:HA	1:D:480:LYS:NZ	1.65	1.09
1:C:451:TYR:N	1:C:458:VAL:HG23	1.59	1.09
1:D:259:ARG:CZ	1:S:223:GLY:O	1.99	1.09
1:F:437:VAL:HG12	1:F:438:THR:N	1.64	1.09
1:K:402:LYS:CE	1:K:511:PHE:CD2	2.27	1.09
1:L:437:VAL:CG1	1:L:438:THR:H	1.65	1.09
1:L:575:TYR:HA	1:S:480:LYS:NZ	1.66	1.09
1:N:451:TYR:H	1:N:458:VAL:HG21	1.00	1.09
1:Q:325:LEU:HD21	1:R:165:GLU:HG3	1.15	1.09
1:S:601:LEU:HD12	1:S:650:ILE:HD13	1.15	1.09
1:A:226:VAL:HG21	1:J:226:VAL:HG13	1.25	1.09
1:A:510:VAL:HG12	1:A:511:PHE:H	1.17	1.09
1:B:437:VAL:HG12	1:B:438:THR:H	0.99	1.09
1:E:328:PRO:HD2	1:J:252:PRO:HD2	1.10	1.09
1:G:504:ASN:HB3	1:G:505:PRO:HD2	1.33	1.09
1:Q:510:VAL:HG12	1:Q:511:PHE:H	1.17	1.09
1:A:328:PRO:HD2	1:L:252:PRO:HD2	1.10	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:165:GLU:OE1	1:D:325:LEU:HD22	1.49	1.09
1:C:437:VAL:HG12	1:C:438:THR:H	0.99	1.09
1:D:226:VAL:HG13	1:S:226:VAL:HG21	1.25	1.09
1:D:504:ASN:HB3	1:D:505:PRO:HD2	1.33	1.09
1:H:437:VAL:CG1	1:H:438:THR:H	1.65	1.09
1:Q:437:VAL:HG12	1:Q:438:THR:N	1.64	1.09
1:Q:451:TYR:H	1:Q:458:VAL:HG21	1.00	1.09
1:F:575:TYR:HA	1:N:480:LYS:HZ1	0.93	1.09
1:G:437:VAL:CG1	1:G:438:THR:H	1.65	1.09
1:K:252:PRO:CD	1:N:328:PRO:HD2	1.83	1.09
1:L:451:TYR:H	1:L:458:VAL:HG21	1.00	1.09
1:L:480:LYS:NZ	1:S:575:TYR:HA	1.66	1.09
1:M:437:VAL:HG12	1:M:438:THR:H	0.99	1.09
1:O:402:LYS:CE	1:O:511:PHE:CD2	2.27	1.09
1:P:601:LEU:HD12	1:P:650:ILE:HD13	1.15	1.09
1:D:402:LYS:NZ	1:D:511:PHE:HD2	1.26	1.08
1:E:437:VAL:CG1	1:E:438:THR:H	1.65	1.08
1:F:328:PRO:HD2	1:R:252:PRO:CD	1.83	1.08
1:I:510:VAL:HG12	1:I:511:PHE:H	1.17	1.08
1:J:437:VAL:HG12	1:J:438:THR:H	0.99	1.08
1:S:437:VAL:CG1	1:S:438:THR:H	1.65	1.08
1:A:328:PRO:HD2	1:L:252:PRO:CD	1.83	1.08
1:B:252:PRO:CD	1:R:328:PRO:HD2	1.83	1.08
1:B:252:PRO:HD2	1:R:328:PRO:HD2	1.10	1.08
1:C:504:ASN:HB3	1:C:505:PRO:HD2	1.33	1.08
1:D:437:VAL:HG12	1:D:438:THR:H	0.99	1.08
1:F:328:PRO:HD2	1:R:252:PRO:HD2	1.10	1.08
1:M:252:PRO:HD2	1:Q:328:PRO:HD2	1.10	1.08
1:S:451:TYR:N	1:S:458:VAL:HG23	1.60	1.08
1:B:325:LEU:HD21	1:D:165:GLU:HG3	1.15	1.08
1:J:437:VAL:HG12	1:J:438:THR:N	1.64	1.08
1:L:402:LYS:NZ	1:L:511:PHE:HD2	1.26	1.08
1:O:401:GLU:OE1	1:O:402:LYS:HG3	1.54	1.08
1:T:437:VAL:CG1	1:T:438:THR:H	1.65	1.08
1:B:328:PRO:HD2	1:F:252:PRO:CD	1.83	1.08
1:B:328:PRO:HD2	1:F:252:PRO:HD2	1.10	1.08
1:C:401:GLU:OE1	1:C:402:LYS:HG3	1.54	1.08
1:H:226:VAL:HG13	1:T:226:VAL:HG21	1.25	1.08
1:P:437:VAL:CG1	1:P:438:THR:H	1.65	1.08
1:S:401:GLU:OE1	1:S:402:LYS:HG3	1.54	1.08
1:T:437:VAL:HG12	1:T:438:THR:H	0.99	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:601:LEU:HD12	1:T:650:ILE:HD13	1.15	1.08
1:A:575:TYR:HA	1:E:480:LYS:HZ1	0.92	1.08
1:E:328:PRO:C	1:J:251:TYR:CD1	2.01	1.08
1:G:401:GLU:OE1	1:G:402:LYS:HG3	1.54	1.08
1:H:451:TYR:N	1:H:458:VAL:HG23	1.59	1.08
1:M:252:PRO:CD	1:Q:328:PRO:HD2	1.83	1.08
1:M:275:LEU:CG	1:Q:275:LEU:HD11	1.67	1.08
1:Q:437:VAL:CG1	1:Q:438:THR:H	1.65	1.08
1:R:437:VAL:CG1	1:R:438:THR:H	1.65	1.08
1:G:226:VAL:HG21	1:N:226:VAL:HG13	1.25	1.07
1:I:601:LEU:HD12	1:I:650:ILE:HD13	1.15	1.07
1:J:402:LYS:CE	1:J:511:PHE:CD2	2.27	1.07
1:M:437:VAL:CG1	1:M:438:THR:H	1.65	1.07
1:P:504:ASN:HB3	1:P:505:PRO:HD2	1.33	1.07
1:R:437:VAL:HG12	1:R:438:THR:H	0.99	1.07
1:S:328:PRO:HD2	1:T:252:PRO:CD	1.83	1.07
1:S:437:VAL:HG12	1:S:438:THR:H	0.99	1.07
1:T:437:VAL:HG12	1:T:438:THR:N	1.64	1.07
1:A:437:VAL:CG1	1:A:438:THR:H	1.65	1.07
1:B:274:THR:C	1:R:275:LEU:HD12	1.79	1.07
1:J:401:GLU:OE1	1:J:402:LYS:HG3	1.54	1.07
1:K:504:ASN:HB3	1:K:505:PRO:HD2	1.33	1.07
1:M:274:THR:C	1:Q:275:LEU:HD12	1.79	1.07
1:Q:480:LYS:HZ1	1:R:575:TYR:HA	0.94	1.07
1:S:437:VAL:HG12	1:S:438:THR:N	1.64	1.07
1:T:401:GLU:OE1	1:T:402:LYS:HG3	1.54	1.07
1:B:275:LEU:HD12	1:F:274:THR:C	1.79	1.07
1:C:437:VAL:CG1	1:C:438:THR:H	1.65	1.07
1:K:401:GLU:OE1	1:K:402:LYS:HG3	1.54	1.07
1:K:437:VAL:CG1	1:K:438:THR:H	1.65	1.07
1:L:510:VAL:HG12	1:L:511:PHE:H	1.17	1.07
1:S:510:VAL:HG12	1:S:511:PHE:H	1.17	1.07
1:B:327:PRO:HD2	1:F:237:PRO:HG3	1.18	1.07
1:E:328:PRO:HD2	1:J:252:PRO:CD	1.83	1.07
1:I:401:GLU:OE1	1:I:402:LYS:HG3	1.54	1.07
1:I:437:VAL:CG1	1:I:438:THR:H	1.65	1.07
1:L:387:ARG:NH2	1:S:348:LEU:HD23	1.70	1.07
1:L:504:ASN:HB3	1:L:505:PRO:HD2	1.33	1.07
1:N:602:PRO:HG2	1:N:605:SER:HB2	1.07	1.07
1:P:401:GLU:OE1	1:P:402:LYS:HG3	1.54	1.07
1:Q:165:GLU:HG3	1:R:325:LEU:HD21	1.15	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:601:LEU:HD12	1:B:650:ILE:HD13	1.15	1.07
1:D:602:PRO:HG2	1:D:605:SER:HB2	1.07	1.07
1:F:387:ARG:NH2	1:N:348:LEU:HD23	1.70	1.07
1:H:401:GLU:OE1	1:H:402:LYS:HG3	1.54	1.07
1:I:437:VAL:HG12	1:I:438:THR:H	0.99	1.07
1:L:575:TYR:HA	1:S:480:LYS:HZ1	0.93	1.07
1:N:504:ASN:HB3	1:N:505:PRO:HD2	1.33	1.07
1:P:437:VAL:HG12	1:P:438:THR:H	0.99	1.07
1:S:327:PRO:HG3	1:T:237:PRO:HD3	1.37	1.07
1:A:252:PRO:HD2	1:D:328:PRO:HD2	1.10	1.06
1:A:401:GLU:OE1	1:A:402:LYS:HG3	1.54	1.06
1:B:237:PRO:HD3	1:R:327:PRO:HG3	1.37	1.06
1:D:274:THR:C	1:L:275:LEU:HD12	1.79	1.06
1:E:275:LEU:HD12	1:J:274:THR:C	1.79	1.06
1:E:299:TYR:CE2	1:O:299:TYR:CE2	2.43	1.06
1:F:165:GLU:HG3	1:N:325:LEU:HD21	1.15	1.06
1:G:602:PRO:HG2	1:G:605:SER:HB2	1.07	1.06
1:H:602:PRO:HG2	1:H:605:SER:HB2	1.07	1.06
1:I:602:PRO:HG2	1:I:605:SER:HB2	1.07	1.06
1:J:299:TYR:CE2	1:P:299:TYR:CE2	2.43	1.06
1:L:401:GLU:OE1	1:L:402:LYS:HG3	1.54	1.06
1:N:437:VAL:HG12	1:N:438:THR:N	1.64	1.06
1:O:437:VAL:CG1	1:O:438:THR:H	1.65	1.06
1:A:274:THR:C	1:D:275:LEU:HD12	1.79	1.06
1:A:299:TYR:CE2	1:B:299:TYR:CE2	2.43	1.06
1:B:275:LEU:CG	1:R:275:LEU:HD11	1.67	1.06
1:B:299:TYR:CE2	1:Q:299:TYR:CE2	2.43	1.06
1:B:504:ASN:HB3	1:B:505:PRO:HD2	1.33	1.06
1:D:252:PRO:CD	1:L:328:PRO:HD2	1.83	1.06
1:E:299:TYR:CE2	1:L:299:TYR:CE2	2.44	1.06
1:E:451:TYR:N	1:E:458:VAL:HG23	1.59	1.06
1:G:437:VAL:HG12	1:G:438:THR:H	0.99	1.06
1:L:299:TYR:CE2	1:T:299:TYR:CE2	2.43	1.06
1:L:348:LEU:HD23	1:S:387:ARG:NH2	1.70	1.06
1:M:402:LYS:CE	1:M:511:PHE:CD2	2.27	1.06
1:R:401:GLU:OE1	1:R:402:LYS:HG3	1.54	1.06
1:S:275:LEU:HD12	1:T:274:THR:C	1.79	1.06
1:T:602:PRO:HG2	1:T:605:SER:HB2	1.07	1.06
1:A:299:TYR:CE2	1:J:299:TYR:CE2	2.43	1.06
1:D:401:GLU:OE1	1:D:402:LYS:HG3	1.54	1.06
1:D:437:VAL:CG1	1:D:438:THR:H	1.65	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:602:PRO:HG2	1:E:605:SER:HB2	1.07	1.06
1:F:275:LEU:HD12	1:R:274:THR:C	1.79	1.06
1:F:299:TYR:CE2	1:K:299:TYR:CE2	2.43	1.06
1:F:401:GLU:OE1	1:F:402:LYS:HG3	1.54	1.06
1:H:299:TYR:CE2	1:T:299:TYR:CE2	2.43	1.06
1:M:237:PRO:CD	1:Q:327:PRO:HD2	1.84	1.06
1:N:437:VAL:CG1	1:N:438:THR:H	1.65	1.06
1:O:510:VAL:HG12	1:O:511:PHE:H	1.17	1.06
1:P:602:PRO:HG2	1:P:605:SER:HB2	1.07	1.06
1:Q:602:PRO:HG2	1:Q:605:SER:HB2	1.07	1.06
1:S:602:PRO:HG2	1:S:605:SER:HB2	1.07	1.06
1:A:387:ARG:NH2	1:E:348:LEU:HD23	1.70	1.06
1:B:237:PRO:CD	1:R:327:PRO:HD2	1.84	1.06
1:B:348:LEU:HD23	1:D:387:ARG:NH2	1.70	1.06
1:E:402:LYS:NZ	1:E:511:PHE:CE2	2.24	1.06
1:E:504:ASN:HB3	1:E:505:PRO:HD2	1.33	1.06
1:F:327:PRO:HD2	1:R:237:PRO:CD	1.84	1.06
1:I:299:TYR:CE2	1:M:299:TYR:CE2	2.43	1.06
1:K:252:PRO:HD2	1:N:328:PRO:HD2	1.10	1.06
1:O:402:LYS:NZ	1:O:511:PHE:CE2	2.24	1.06
1:Q:325:LEU:HD22	1:R:165:GLU:OE1	1.49	1.06
1:A:252:PRO:CD	1:D:328:PRO:HD2	1.83	1.06
1:A:275:LEU:HD12	1:L:274:THR:C	1.79	1.06
1:A:327:PRO:HD2	1:L:237:PRO:HG3	1.17	1.06
1:B:402:LYS:NZ	1:B:511:PHE:CE2	2.24	1.06
1:B:510:VAL:HG12	1:B:511:PHE:H	1.17	1.06
1:D:252:PRO:HD2	1:L:328:PRO:HD2	1.10	1.06
1:D:299:TYR:CE2	1:F:299:TYR:CE2	2.43	1.06
1:G:299:TYR:CE2	1:I:299:TYR:CE2	2.43	1.06
1:K:274:THR:C	1:N:275:LEU:HD12	1.79	1.06
1:M:299:TYR:CE2	1:R:299:TYR:CE2	2.44	1.06
1:N:299:TYR:CE2	1:R:299:TYR:CE2	2.43	1.06
1:N:402:LYS:CE	1:N:511:PHE:CD2	2.27	1.06
1:P:402:LYS:NZ	1:P:511:PHE:CE2	2.24	1.06
1:R:402:LYS:NZ	1:R:511:PHE:HD2	1.26	1.06
1:R:504:ASN:HB3	1:R:505:PRO:HD2	1.33	1.06
1:R:601:LEU:HD12	1:R:650:ILE:HD13	1.15	1.06
1:S:402:LYS:NZ	1:S:511:PHE:CE2	2.24	1.06
1:A:237:PRO:CD	1:D:327:PRO:HD2	1.84	1.05
1:A:504:ASN:HB3	1:A:505:PRO:HD2	1.33	1.05
1:B:327:PRO:HD2	1:F:237:PRO:CD	1.84	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:602:PRO:HG2	1:B:605:SER:HB2	1.07	1.05
1:F:451:TYR:H	1:F:458:VAL:HG21	1.00	1.05
1:H:510:VAL:HG12	1:H:511:PHE:H	1.17	1.05
1:I:402:LYS:NZ	1:I:511:PHE:CE2	2.24	1.05
1:I:437:VAL:HG12	1:I:438:THR:N	1.64	1.05
1:K:402:LYS:NZ	1:K:511:PHE:CE2	2.24	1.05
1:M:451:TYR:H	1:M:458:VAL:HG21	1.00	1.05
1:B:401:GLU:OE1	1:B:402:LYS:HG3	1.54	1.05
1:C:299:TYR:CE2	1:S:299:TYR:CE2	2.44	1.05
1:D:275:LEU:CG	1:L:275:LEU:HD11	1.67	1.05
1:I:504:ASN:HB3	1:I:505:PRO:HD2	1.33	1.05
1:L:402:LYS:NZ	1:L:511:PHE:CE2	2.24	1.05
1:M:402:LYS:NZ	1:M:511:PHE:CE2	2.24	1.05
1:N:437:VAL:HG12	1:N:438:THR:H	0.99	1.05
1:P:299:TYR:CE2	1:Q:299:TYR:CE2	2.43	1.05
1:R:402:LYS:CE	1:R:511:PHE:CD2	2.27	1.05
1:R:602:PRO:HG2	1:R:605:SER:HB2	1.07	1.05
1:S:327:PRO:HD2	1:T:237:PRO:CD	1.84	1.05
1:C:299:TYR:CE2	1:K:299:TYR:CE2	2.43	1.05
1:D:402:LYS:CE	1:D:511:PHE:CD2	2.27	1.05
1:E:401:GLU:OE1	1:E:402:LYS:HG3	1.54	1.05
1:H:299:TYR:CE2	1:O:299:TYR:CE2	2.43	1.05
1:L:480:LYS:HZ1	1:S:575:TYR:HA	0.93	1.05
1:Q:401:GLU:OE1	1:Q:402:LYS:HG3	1.54	1.05
1:A:348:LEU:HD23	1:E:387:ARG:NH2	1.70	1.05
1:A:402:LYS:NZ	1:A:511:PHE:CE2	2.24	1.05
1:D:299:TYR:CE2	1:S:299:TYR:CE2	2.43	1.05
1:G:402:LYS:NZ	1:G:511:PHE:CE2	2.24	1.05
1:G:510:VAL:HG12	1:G:511:PHE:H	1.17	1.05
1:K:601:LEU:HD11	1:K:650:ILE:CD1	1.87	1.05
1:K:602:PRO:HG2	1:K:605:SER:HB2	1.07	1.05
1:L:325:LEU:HD22	1:S:165:GLU:OE1	1.49	1.05
1:M:504:ASN:HB3	1:M:505:PRO:HD2	1.33	1.05
1:M:602:PRO:HG2	1:M:605:SER:HB2	1.07	1.05
1:T:402:LYS:NZ	1:T:511:PHE:CE2	2.24	1.05
1:F:602:PRO:HG2	1:F:605:SER:HB2	1.07	1.05
1:H:601:LEU:HD11	1:H:650:ILE:CD1	1.87	1.05
1:M:510:VAL:HG12	1:M:511:PHE:H	1.17	1.05
1:N:402:LYS:NZ	1:N:511:PHE:CE2	2.24	1.05
1:P:411:PHE:HD1	1:P:418:ASP:HB3	1.05	1.05
1:R:402:LYS:NZ	1:R:511:PHE:CE2	2.24	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:510:VAL:HG12	1:R:511:PHE:H	1.17	1.05
1:A:251:TYR:CG	1:D:328:PRO:O	2.10	1.04
1:D:510:VAL:HG12	1:D:511:PHE:H	1.17	1.04
1:H:402:LYS:NZ	1:H:511:PHE:CE2	2.24	1.04
1:K:237:PRO:CD	1:N:327:PRO:HD2	1.84	1.04
1:M:251:TYR:CG	1:Q:328:PRO:O	2.10	1.04
1:M:401:GLU:OE1	1:M:402:LYS:HG3	1.54	1.04
1:P:510:VAL:HG12	1:P:511:PHE:H	1.17	1.04
1:Q:387:ARG:NH2	1:R:348:LEU:HD23	1.70	1.04
1:Q:411:PHE:HD1	1:Q:418:ASP:HB3	1.05	1.04
1:C:402:LYS:NZ	1:C:511:PHE:CE2	2.24	1.04
1:D:437:VAL:HG12	1:D:438:THR:N	1.64	1.04
1:E:327:PRO:HD2	1:J:237:PRO:CD	1.84	1.04
1:F:348:LEU:HD23	1:N:387:ARG:NH2	1.70	1.04
1:F:510:VAL:HG12	1:F:511:PHE:H	1.17	1.04
1:F:601:LEU:HD11	1:F:650:ILE:CD1	1.87	1.04
1:G:437:VAL:HG12	1:G:438:THR:N	1.64	1.04
1:Q:402:LYS:NZ	1:Q:511:PHE:CE2	2.24	1.04
1:Q:601:LEU:HD11	1:Q:650:ILE:CD1	1.87	1.04
1:R:437:VAL:HG12	1:R:439:THR:H	0.88	1.04
1:A:602:PRO:HG2	1:A:605:SER:HB2	1.07	1.04
1:B:387:ARG:NH2	1:D:348:LEU:HD23	1.70	1.04
1:B:437:VAL:HG12	1:B:439:THR:H	0.88	1.04
1:F:328:PRO:O	1:R:251:TYR:CG	2.11	1.04
1:L:601:LEU:HD11	1:L:650:ILE:CD1	1.87	1.04
1:M:437:VAL:HG12	1:M:438:THR:N	1.64	1.04
1:N:401:GLU:OE1	1:N:402:LYS:HG3	1.54	1.04
1:Q:348:LEU:HD23	1:R:387:ARG:NH2	1.70	1.04
1:S:504:ASN:HB3	1:S:505:PRO:HD2	1.33	1.04
1:A:237:PRO:HD3	1:D:327:PRO:HG3	1.37	1.04
1:B:251:TYR:CG	1:R:328:PRO:O	2.10	1.04
1:C:510:VAL:HG12	1:C:511:PHE:H	1.17	1.04
1:C:601:LEU:HD11	1:C:650:ILE:CD1	1.87	1.04
1:E:327:PRO:HG3	1:J:237:PRO:HD3	1.37	1.04
1:G:299:TYR:CE2	1:N:299:TYR:CE2	2.43	1.04
1:H:437:VAL:HG12	1:H:439:THR:H	0.88	1.04
1:L:190:LYS:CB	1:L:652:LEU:HD13	1.77	1.04
1:B:437:VAL:HG12	1:B:438:THR:N	1.64	1.04
1:F:437:VAL:HG12	1:F:439:THR:H	0.88	1.04
1:G:601:LEU:HD11	1:G:650:ILE:CD1	1.87	1.04
1:P:190:LYS:CB	1:P:652:LEU:HD13	1.77	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:328:PRO:HD2	1:T:252:PRO:HD2	1.10	1.04
1:D:251:TYR:CG	1:L:328:PRO:O	2.11	1.03
1:L:437:VAL:HG12	1:L:439:THR:H	0.88	1.03
1:E:437:VAL:HG12	1:E:438:THR:N	1.64	1.03
1:E:510:VAL:HG12	1:E:511:PHE:H	1.17	1.03
1:F:327:PRO:HG3	1:R:237:PRO:HD3	1.37	1.03
1:J:437:VAL:HG12	1:J:439:THR:H	0.88	1.03
1:K:251:TYR:CG	1:N:328:PRO:O	2.10	1.03
1:O:601:LEU:HD12	1:O:650:ILE:HD13	1.15	1.03
1:A:437:VAL:HG12	1:A:439:THR:N	1.74	1.03
1:N:601:LEU:HD11	1:N:650:ILE:CD1	1.87	1.03
1:P:437:VAL:HG12	1:P:439:THR:H	0.88	1.03
1:A:437:VAL:HG12	1:A:439:THR:H	0.88	1.03
1:C:602:PRO:HG2	1:C:605:SER:HB2	1.07	1.03
1:E:328:PRO:O	1:J:251:TYR:CG	2.10	1.03
1:H:437:VAL:HG12	1:H:439:THR:N	1.74	1.03
1:J:602:PRO:HG2	1:J:605:SER:HB2	1.07	1.03
1:K:237:PRO:HD3	1:N:327:PRO:HG3	1.37	1.03
1:N:437:VAL:HG12	1:N:439:THR:N	1.74	1.03
1:Q:437:VAL:HG12	1:Q:439:THR:N	1.74	1.03
1:Q:575:TYR:HA	1:R:480:LYS:HZ1	0.86	1.03
1:S:328:PRO:O	1:T:251:TYR:CG	2.10	1.03
1:A:328:PRO:O	1:L:251:TYR:CG	2.11	1.03
1:B:575:TYR:HA	1:D:480:LYS:HZ1	0.88	1.03
1:F:165:GLU:OE1	1:N:325:LEU:HD22	1.49	1.03
1:G:437:VAL:HG12	1:G:439:THR:N	1.74	1.03
1:I:437:VAL:HG12	1:I:439:THR:N	1.74	1.03
1:J:437:VAL:HG12	1:J:439:THR:N	1.74	1.03
1:O:437:VAL:HG12	1:O:439:THR:H	0.88	1.03
1:O:602:PRO:HG2	1:O:605:SER:HB2	1.07	1.03
1:R:411:PHE:HD1	1:R:418:ASP:HB3	1.05	1.03
1:A:387:ARG:CZ	1:E:348:LEU:HD23	1.90	1.02
1:C:437:VAL:HG12	1:C:439:THR:N	1.74	1.02
1:F:437:VAL:HG12	1:F:439:THR:N	1.74	1.02
1:F:504:ASN:HB3	1:F:505:PRO:HD2	1.33	1.02
1:J:402:LYS:NZ	1:J:511:PHE:CE2	2.24	1.02
1:M:437:VAL:HG12	1:M:439:THR:N	1.74	1.02
1:T:601:LEU:CD1	1:T:650:ILE:HD13	1.77	1.02
1:A:327:PRO:HG3	1:L:237:PRO:HD3	1.37	1.02
1:D:237:PRO:HD3	1:L:327:PRO:HG3	1.37	1.02
1:D:437:VAL:HG12	1:D:439:THR:N	1.74	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:601:LEU:HD11	1:D:650:ILE:CD1	1.87	1.02
1:L:602:PRO:HG2	1:L:605:SER:HB2	1.07	1.02
1:Q:190:LYS:CB	1:Q:652:LEU:HD13	1.77	1.02
1:Q:387:ARG:CZ	1:R:348:LEU:HD23	1.90	1.02
1:S:275:LEU:HD11	1:T:275:LEU:CG	1.67	1.02
1:A:348:LEU:HD23	1:E:387:ARG:CZ	1.90	1.02
1:A:402:LYS:CE	1:A:511:PHE:CD2	2.27	1.02
1:B:328:PRO:O	1:F:251:TYR:CG	2.11	1.02
1:D:237:PRO:CD	1:L:327:PRO:HD2	1.84	1.02
1:J:601:LEU:CD1	1:J:650:ILE:HD13	1.77	1.02
1:L:387:ARG:CZ	1:S:348:LEU:HD23	1.90	1.02
1:N:510:VAL:HG12	1:N:511:PHE:H	1.17	1.02
1:P:437:VAL:HG12	1:P:439:THR:N	1.74	1.02
1:T:601:LEU:HD11	1:T:650:ILE:CD1	1.87	1.02
1:F:348:LEU:HD23	1:N:387:ARG:CZ	1.89	1.02
1:H:601:LEU:CD1	1:H:650:ILE:HD13	1.77	1.02
1:I:437:VAL:HG12	1:I:439:THR:H	0.88	1.02
1:J:510:VAL:HG12	1:J:511:PHE:H	1.17	1.02
1:M:237:PRO:HD3	1:Q:327:PRO:HG3	1.37	1.02
1:N:411:PHE:HD1	1:N:418:ASP:HB3	1.05	1.02
1:R:437:VAL:HG12	1:R:439:THR:N	1.74	1.02
1:R:601:LEU:HD11	1:R:650:ILE:CD1	1.87	1.02
1:B:275:LEU:HD11	1:F:275:LEU:CG	1.67	1.02
1:B:480:LYS:HZ1	1:D:575:TYR:HA	0.92	1.02
1:B:601:LEU:HD11	1:B:650:ILE:CD1	1.87	1.02
1:E:601:LEU:CD1	1:E:650:ILE:HD13	1.77	1.02
1:F:602:PRO:CG	1:F:605:SER:HB2	1.90	1.02
1:I:601:LEU:HD11	1:I:650:ILE:CD1	1.87	1.02
1:K:437:VAL:HG12	1:K:439:THR:N	1.74	1.02
1:K:602:PRO:CG	1:K:605:SER:HB2	1.90	1.02
1:M:437:VAL:HG12	1:M:439:THR:H	0.88	1.02
1:O:601:LEU:HD11	1:O:650:ILE:CD1	1.87	1.02
1:Q:437:VAL:HG12	1:Q:439:THR:H	0.88	1.02
1:A:275:LEU:CG	1:D:275:LEU:HD11	1.67	1.01
1:A:327:PRO:HD2	1:L:237:PRO:CD	1.84	1.01
1:A:480:LYS:HZ1	1:E:575:TYR:HA	0.85	1.01
1:A:602:PRO:CG	1:A:605:SER:HB2	1.90	1.01
1:B:387:ARG:CZ	1:D:348:LEU:HD23	1.90	1.01
1:B:437:VAL:HG12	1:B:439:THR:N	1.74	1.01
1:C:411:PHE:HD1	1:C:418:ASP:HB3	1.05	1.01
1:J:602:PRO:CG	1:J:605:SER:HB2	1.90	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:437:VAL:HG12	1:L:439:THR:N	1.74	1.01
1:C:437:VAL:HG12	1:C:439:THR:H	0.88	1.01
1:K:437:VAL:HG12	1:K:439:THR:H	0.88	1.01
1:N:437:VAL:HG12	1:N:439:THR:H	0.88	1.01
1:Q:602:PRO:CG	1:Q:605:SER:HB2	1.90	1.01
1:S:411:PHE:HD1	1:S:418:ASP:HB3	1.05	1.01
1:S:601:LEU:HD11	1:S:650:ILE:HG12	1.43	1.01
1:S:602:PRO:CG	1:S:605:SER:HB2	1.90	1.01
1:T:437:VAL:HG12	1:T:439:THR:N	1.74	1.01
1:T:602:PRO:CG	1:T:605:SER:HB2	1.90	1.01
1:C:226:VAL:HG23	1:S:226:VAL:HA	1.42	1.01
1:D:402:LYS:NZ	1:D:511:PHE:CE2	2.24	1.01
1:F:387:ARG:CZ	1:N:348:LEU:HD23	1.89	1.01
1:R:601:LEU:HD11	1:R:650:ILE:HG12	1.43	1.01
1:S:437:VAL:HG12	1:S:439:THR:N	1.74	1.01
1:A:226:VAL:HA	1:B:226:VAL:HG23	1.42	1.01
1:A:601:LEU:HD11	1:A:650:ILE:CD1	1.87	1.01
1:B:348:LEU:HD23	1:D:387:ARG:CZ	1.89	1.01
1:C:437:VAL:HG12	1:C:438:THR:N	1.64	1.01
1:E:602:PRO:CG	1:E:605:SER:HB2	1.90	1.01
1:F:287:LEU:HD12	1:F:288:VAL:N	1.76	1.01
1:F:601:LEU:HD11	1:F:650:ILE:HG12	1.43	1.01
1:G:287:LEU:HD12	1:G:288:VAL:N	1.76	1.01
1:K:601:LEU:HD11	1:K:650:ILE:HG12	1.42	1.01
1:M:602:PRO:CG	1:M:605:SER:HB2	1.90	1.01
1:P:601:LEU:HD11	1:P:650:ILE:CD1	1.87	1.01
1:S:287:LEU:HD12	1:S:288:VAL:N	1.76	1.01
1:A:601:LEU:HD11	1:A:650:ILE:HG12	1.43	1.01
1:B:601:LEU:CD1	1:B:650:ILE:HD13	1.77	1.01
1:D:287:LEU:HD12	1:D:288:VAL:N	1.76	1.01
1:I:226:VAL:HA	1:M:226:VAL:HG23	1.42	1.01
1:I:287:LEU:HD12	1:I:288:VAL:N	1.76	1.01
1:J:226:VAL:HG23	1:P:226:VAL:HA	1.42	1.01
1:J:287:LEU:HD12	1:J:288:VAL:N	1.76	1.01
1:L:602:PRO:CG	1:L:605:SER:HB2	1.90	1.01
1:A:601:LEU:CD1	1:A:650:ILE:HD13	1.77	1.00
1:B:601:LEU:HD11	1:B:650:ILE:HG12	1.43	1.00
1:E:287:LEU:HD12	1:E:288:VAL:N	1.76	1.00
1:G:601:LEU:HD11	1:G:650:ILE:HG12	1.43	1.00
1:G:602:PRO:CG	1:G:605:SER:HB2	1.90	1.00
1:K:437:VAL:HG12	1:K:438:THR:N	1.64	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:437:VAL:HG12	1:O:439:THR:N	1.74	1.00
1:R:287:LEU:HD12	1:R:288:VAL:N	1.76	1.00
1:T:601:LEU:HD11	1:T:650:ILE:HG12	1.42	1.00
1:B:275:LEU:HD12	1:F:274:THR:O	1.61	1.00
1:D:602:PRO:CG	1:D:605:SER:HB2	1.90	1.00
1:H:602:PRO:CG	1:H:605:SER:HB2	1.90	1.00
1:K:275:LEU:CG	1:N:275:LEU:HD11	1.67	1.00
1:L:437:VAL:HG12	1:L:438:THR:N	1.63	1.00
1:N:602:PRO:CG	1:N:605:SER:HB2	1.90	1.00
1:Q:287:LEU:HD12	1:Q:288:VAL:N	1.76	1.00
1:Q:601:LEU:HD11	1:Q:650:ILE:HG12	1.43	1.00
1:Q:605:SER:HB3	1:Q:650:ILE:HG22	1.44	1.00
1:R:437:VAL:HG12	1:R:438:THR:N	1.63	1.00
1:A:275:LEU:HD11	1:L:275:LEU:CG	1.67	1.00
1:B:274:THR:O	1:R:275:LEU:HD12	1.62	1.00
1:G:226:VAL:HA	1:I:226:VAL:HG23	1.42	1.00
1:H:287:LEU:HD12	1:H:288:VAL:N	1.76	1.00
1:I:602:PRO:CG	1:I:605:SER:HB2	1.90	1.00
1:J:601:LEU:HD11	1:J:650:ILE:HG12	1.43	1.00
1:L:287:LEU:HD12	1:L:288:VAL:N	1.76	1.00
1:L:348:LEU:HD23	1:S:387:ARG:CZ	1.90	1.00
1:L:605:SER:HB3	1:L:650:ILE:HG22	1.44	1.00
1:N:190:LYS:CB	1:N:652:LEU:HD13	1.77	1.00
1:N:601:LEU:HD11	1:N:650:ILE:HG12	1.42	1.00
1:O:602:PRO:CG	1:O:605:SER:HB2	1.90	1.00
1:P:602:PRO:CG	1:P:605:SER:HB2	1.90	1.00
1:Q:348:LEU:HD23	1:R:387:ARG:CZ	1.90	1.00
1:S:437:VAL:HG12	1:S:439:THR:H	0.88	1.00
1:C:602:PRO:CG	1:C:605:SER:HB2	1.90	1.00
1:H:510:VAL:HG12	1:H:511:PHE:N	1.76	1.00
1:J:510:VAL:HG12	1:J:511:PHE:N	1.76	1.00
1:T:437:VAL:HG12	1:T:439:THR:H	0.88	1.00
1:B:327:PRO:HG3	1:F:237:PRO:HD3	1.37	1.00
1:B:602:PRO:CG	1:B:605:SER:HB2	1.90	1.00
1:D:437:VAL:HG12	1:D:439:THR:H	0.88	1.00
1:H:226:VAL:HA	1:T:226:VAL:HG23	1.42	1.00
1:S:275:LEU:HD12	1:T:274:THR:O	1.61	1.00
1:T:287:LEU:HD12	1:T:288:VAL:N	1.76	1.00
1:C:287:LEU:HD12	1:C:288:VAL:N	1.76	1.00
1:C:601:LEU:CD1	1:C:650:ILE:HD13	1.77	1.00
1:E:437:VAL:HG12	1:E:439:THR:N	1.74	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:601:LEU:HD11	1:E:650:ILE:CD1	1.87	1.00
1:H:601:LEU:HD11	1:H:650:ILE:HG12	1.42	1.00
1:I:601:LEU:CD1	1:I:650:ILE:HD13	1.77	1.00
1:K:287:LEU:HD12	1:K:288:VAL:N	1.76	1.00
1:R:190:LYS:CB	1:R:652:LEU:HD13	1.77	1.00
1:R:602:PRO:CG	1:R:605:SER:HB2	1.90	1.00
1:F:226:VAL:HG23	1:K:226:VAL:HA	1.42	0.99
1:A:287:LEU:HD12	1:A:288:VAL:N	1.76	0.99
1:D:274:THR:O	1:L:275:LEU:HD12	1.61	0.99
1:E:275:LEU:HD12	1:J:274:THR:O	1.61	0.99
1:E:437:VAL:HG12	1:E:439:THR:H	0.88	0.99
1:E:601:LEU:HD11	1:E:650:ILE:HG12	1.43	0.99
1:F:480:LYS:HZ1	1:N:575:TYR:HA	0.88	0.99
1:I:487:ILE:HG22	1:I:510:VAL:HG22	1.45	0.99
1:M:601:LEU:HD11	1:M:650:ILE:CD1	1.87	0.99
1:D:510:VAL:HG12	1:D:511:PHE:N	1.76	0.99
1:R:510:VAL:HG12	1:R:511:PHE:N	1.76	0.99
1:C:226:VAL:HA	1:K:226:VAL:HG23	1.42	0.99
1:C:605:SER:HB3	1:C:650:ILE:HG22	1.44	0.99
1:D:226:VAL:HG23	1:F:226:VAL:HA	1.42	0.99
1:F:190:LYS:CB	1:F:652:LEU:HD13	1.77	0.99
1:O:287:LEU:HD12	1:O:288:VAL:N	1.76	0.99
1:S:601:LEU:HD11	1:S:650:ILE:CD1	1.87	0.99
1:A:275:LEU:HD12	1:L:274:THR:O	1.61	0.99
1:A:605:SER:HB3	1:A:650:ILE:HG22	1.44	0.99
1:F:275:LEU:HD12	1:R:274:THR:O	1.61	0.99
1:H:437:VAL:HG12	1:H:438:THR:N	1.64	0.99
1:A:487:ILE:HG22	1:A:510:VAL:HG22	1.45	0.99
1:M:487:ILE:HG22	1:M:510:VAL:HG22	1.45	0.99
1:N:287:LEU:HD12	1:N:288:VAL:N	1.76	0.99
1:B:287:LEU:HD12	1:B:288:VAL:N	1.76	0.99
1:D:601:LEU:CD1	1:D:650:ILE:HD13	1.77	0.99
1:E:487:ILE:HG22	1:E:510:VAL:HG22	1.45	0.99
1:J:190:LYS:CB	1:J:652:LEU:HD13	1.77	0.99
1:J:411:PHE:HD1	1:J:418:ASP:HB3	1.05	0.99
1:K:601:LEU:CD1	1:K:650:ILE:HD13	1.77	0.99
1:E:275:LEU:HD11	1:J:275:LEU:CG	1.67	0.99
1:J:605:SER:HB3	1:J:650:ILE:HG22	1.44	0.99
1:M:226:VAL:HA	1:R:226:VAL:HG23	1.42	0.99
1:B:348:LEU:HD23	1:D:387:ARG:NH1	1.78	0.99
1:C:190:LYS:CB	1:C:652:LEU:HD13	1.77	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:601:LEU:HD11	1:D:650:ILE:HG12	1.43	0.99
1:I:602:PRO:HG2	1:I:605:SER:CB	1.93	0.99
1:J:601:LEU:HD11	1:J:650:ILE:CD1	1.87	0.99
1:K:274:THR:O	1:N:275:LEU:HD12	1.61	0.99
1:O:602:PRO:HG2	1:O:605:SER:CB	1.93	0.99
1:A:411:PHE:HD1	1:A:418:ASP:HB3	1.05	0.99
1:B:292:TYR:HE2	1:Q:311:THR:CG2	1.76	0.99
1:L:487:ILE:HG22	1:L:510:VAL:HG22	1.45	0.99
1:N:487:ILE:HG22	1:N:510:VAL:HG22	1.45	0.99
1:P:605:SER:HB3	1:P:650:ILE:HG22	1.43	0.99
1:A:437:VAL:HG12	1:A:438:THR:N	1.64	0.98
1:E:226:VAL:HG23	1:L:226:VAL:HA	1.42	0.98
1:F:348:LEU:HD23	1:N:387:ARG:NH1	1.78	0.98
1:F:487:ILE:HG22	1:F:510:VAL:HG22	1.45	0.98
1:G:487:ILE:HG22	1:G:510:VAL:HG22	1.45	0.98
1:L:226:VAL:HG23	1:T:226:VAL:HA	1.42	0.98
1:L:602:PRO:HG2	1:L:605:SER:CB	1.93	0.98
1:M:602:PRO:HG2	1:M:605:SER:CB	1.93	0.98
1:P:311:THR:CG2	1:Q:292:TYR:HE2	1.77	0.98
1:Q:387:ARG:NH1	1:R:348:LEU:HD23	1.78	0.98
1:A:387:ARG:NH1	1:E:348:LEU:HD23	1.78	0.98
1:E:311:THR:CG2	1:L:292:TYR:HE2	1.77	0.98
1:G:601:LEU:HD13	1:G:650:ILE:HD11	1.46	0.98
1:H:601:LEU:HD13	1:H:650:ILE:HD11	1.45	0.98
1:L:439:THR:HG1	1:L:457:ILE:HG12	1.21	0.98
1:M:287:LEU:HD12	1:M:288:VAL:N	1.76	0.98
1:O:605:SER:HB3	1:O:650:ILE:HG22	1.43	0.98
1:C:601:LEU:HD11	1:C:650:ILE:CG1	1.94	0.98
1:G:292:TYR:HE2	1:I:311:THR:CG2	1.76	0.98
1:G:311:THR:CG2	1:N:292:TYR:HE2	1.76	0.98
1:H:226:VAL:HG23	1:O:226:VAL:HA	1.42	0.98
1:K:602:PRO:HG2	1:K:605:SER:CB	1.93	0.98
1:L:601:LEU:HD11	1:L:650:ILE:CG1	1.94	0.98
1:N:226:VAL:HG23	1:R:226:VAL:HA	1.42	0.98
1:P:287:LEU:HD12	1:P:288:VAL:N	1.76	0.98
1:P:601:LEU:CD1	1:P:650:ILE:HD13	1.77	0.98
1:S:605:SER:HB3	1:S:650:ILE:HG22	1.44	0.98
1:T:602:PRO:HG2	1:T:605:SER:CB	1.93	0.98
1:A:274:THR:O	1:D:275:LEU:HD12	1.61	0.98
1:A:601:LEU:HD11	1:A:650:ILE:CG1	1.94	0.98
1:D:601:LEU:HD11	1:D:650:ILE:CG1	1.94	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:292:TYR:HE2	1:O:311:THR:CG2	1.77	0.98
1:I:292:TYR:HE2	1:M:311:THR:CG2	1.77	0.98
1:L:348:LEU:HD23	1:S:387:ARG:NH1	1.78	0.98
1:L:411:PHE:HD1	1:L:418:ASP:HB3	1.05	0.98
1:P:601:LEU:HD13	1:P:650:ILE:HD11	1.45	0.98
1:A:348:LEU:HD23	1:E:387:ARG:NH1	1.78	0.98
1:C:602:PRO:HG2	1:C:605:SER:CB	1.93	0.98
1:E:190:LYS:CB	1:E:652:LEU:HD13	1.77	0.98
1:H:602:PRO:HG2	1:H:605:SER:CB	1.93	0.98
1:S:487:ILE:HG22	1:S:510:VAL:HG22	1.45	0.98
1:S:601:LEU:CD1	1:S:650:ILE:HD13	1.77	0.98
1:I:439:THR:HG1	1:I:457:ILE:HG12	1.15	0.98
1:M:411:PHE:HD1	1:M:418:ASP:HB3	1.05	0.98
1:N:601:LEU:HD13	1:N:650:ILE:HD11	1.45	0.98
1:S:602:PRO:HG2	1:S:605:SER:CB	1.93	0.98
1:A:292:TYR:HE2	1:B:311:THR:CG2	1.76	0.98
1:H:487:ILE:HG22	1:H:510:VAL:HG22	1.45	0.98
1:N:311:THR:HG21	1:R:292:TYR:HE2	0.81	0.98
1:P:601:LEU:HD11	1:P:650:ILE:CG1	1.94	0.98
1:Q:601:LEU:CD1	1:Q:650:ILE:HD13	1.77	0.98
1:A:325:LEU:HD22	1:E:165:GLU:OE1	1.49	0.98
1:D:292:TYR:HE2	1:S:311:THR:CG2	1.77	0.98
1:D:487:ILE:HG22	1:D:510:VAL:HG22	1.45	0.98
1:E:411:PHE:HD1	1:E:418:ASP:HB3	1.05	0.98
1:G:437:VAL:HG12	1:G:439:THR:H	0.88	0.98
1:I:411:PHE:HD1	1:I:418:ASP:HB3	1.05	0.98
1:I:605:SER:HB3	1:I:650:ILE:HG22	1.44	0.98
1:J:601:LEU:HD11	1:J:650:ILE:CG1	1.94	0.98
1:L:165:GLU:OE1	1:S:325:LEU:HD22	1.49	0.98
1:M:601:LEU:HD11	1:M:650:ILE:HG12	1.43	0.98
1:N:602:PRO:HG2	1:N:605:SER:CB	1.93	0.98
1:O:601:LEU:HD11	1:O:650:ILE:CG1	1.94	0.98
1:Q:348:LEU:HD23	1:R:387:ARG:NH1	1.78	0.98
1:Q:602:PRO:HG2	1:Q:605:SER:CB	1.93	0.98
1:C:487:ILE:HG22	1:C:510:VAL:HG22	1.45	0.98
1:F:605:SER:HB3	1:F:650:ILE:HG22	1.43	0.98
1:H:292:TYR:HE2	1:T:311:THR:CG2	1.76	0.98
1:H:411:PHE:HD1	1:H:418:ASP:HB3	1.05	0.98
1:L:311:THR:CG2	1:T:292:TYR:HE2	1.76	0.98
1:L:601:LEU:HD11	1:L:650:ILE:HG12	1.43	0.98
1:P:601:LEU:HD11	1:P:650:ILE:HG12	1.43	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:411:PHE:HD1	1:T:418:ASP:HB3	1.05	0.98
1:T:510:VAL:HG12	1:T:511:PHE:N	1.76	0.98
1:A:601:LEU:HD13	1:A:650:ILE:HD11	1.45	0.98
1:B:605:SER:HB3	1:B:650:ILE:HG22	1.44	0.98
1:D:226:VAL:HA	1:S:226:VAL:HG23	1.42	0.98
1:G:292:TYR:HE2	1:I:311:THR:HG21	0.81	0.98
1:A:311:THR:HG21	1:J:292:TYR:HE2	0.81	0.97
1:D:190:LYS:CB	1:D:652:LEU:HD13	1.77	0.97
1:D:292:TYR:HE2	1:S:311:THR:HG21	0.81	0.97
1:E:226:VAL:HA	1:O:226:VAL:HG23	1.42	0.97
1:E:448:PRO:O	1:E:449:ARG:CB	2.12	0.97
1:F:311:THR:CG2	1:K:292:TYR:HE2	1.77	0.97
1:L:311:THR:HG21	1:T:292:TYR:HE2	0.81	0.97
1:L:387:ARG:NH1	1:S:348:LEU:HD23	1.78	0.97
1:M:605:SER:HB3	1:M:650:ILE:HG22	1.44	0.97
1:O:601:LEU:CD1	1:O:650:ILE:HD13	1.77	0.97
1:P:437:VAL:HG12	1:P:438:THR:N	1.63	0.97
1:S:601:LEU:HD11	1:S:650:ILE:CG1	1.94	0.97
1:A:226:VAL:HG23	1:J:226:VAL:HA	1.42	0.97
1:A:439:THR:HG1	1:A:457:ILE:HG12	1.22	0.97
1:E:601:LEU:HD11	1:E:650:ILE:CG1	1.94	0.97
1:G:602:PRO:HG2	1:G:605:SER:CB	1.93	0.97
1:I:280:SER:HB3	1:I:334:HIS:CG	2.00	0.97
1:J:311:THR:CG2	1:P:292:TYR:HE2	1.76	0.97
1:K:280:SER:HB3	1:K:334:HIS:CG	2.00	0.97
1:L:348:LEU:CD2	1:S:387:ARG:HH22	1.78	0.97
1:M:601:LEU:HD11	1:M:650:ILE:CG1	1.94	0.97
1:S:601:LEU:HD13	1:S:650:ILE:HD11	1.45	0.97
1:B:280:SER:HB3	1:B:334:HIS:CG	2.00	0.97
1:B:602:PRO:HG2	1:B:605:SER:CB	1.93	0.97
1:C:292:TYR:HE2	1:K:311:THR:CG2	1.76	0.97
1:D:397:GLN:HB2	1:D:521:GLN:HA	1.47	0.97
1:F:601:LEU:HD11	1:F:650:ILE:CG1	1.94	0.97
1:F:602:PRO:HG2	1:F:605:SER:CB	1.93	0.97
1:I:190:LYS:CB	1:I:652:LEU:HD13	1.77	0.97
1:L:387:ARG:HH22	1:S:348:LEU:CD2	1.78	0.97
1:O:601:LEU:HD11	1:O:650:ILE:HG12	1.43	0.97
1:Q:601:LEU:HD11	1:Q:650:ILE:CG1	1.94	0.97
1:T:487:ILE:HG22	1:T:510:VAL:HG22	1.45	0.97
1:A:348:LEU:CD2	1:E:387:ARG:HH22	1.78	0.97
1:B:387:ARG:NH1	1:D:348:LEU:HD23	1.78	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:601:LEU:HD11	1:G:650:ILE:CG1	1.94	0.97
1:I:601:LEU:HD13	1:I:650:ILE:HD11	1.46	0.97
1:J:602:PRO:HG2	1:J:605:SER:CB	1.93	0.97
1:K:190:LYS:HB2	1:K:652:LEU:HD13	1.47	0.97
1:K:275:LEU:HA	1:N:275:LEU:HD11	1.17	0.97
1:K:605:SER:HB3	1:K:650:ILE:HG22	1.44	0.97
1:O:190:LYS:CB	1:O:652:LEU:HD13	1.77	0.97
1:Q:487:ILE:HG22	1:Q:510:VAL:HG22	1.45	0.97
1:T:451:TYR:CA	1:T:458:VAL:CG2	2.36	0.97
1:T:601:LEU:HD11	1:T:650:ILE:CG1	1.93	0.97
1:A:203:HIS:HE2	1:E:203:HIS:HE2	0.98	0.97
1:D:311:THR:CG2	1:F:292:TYR:HE2	1.76	0.97
1:D:605:SER:HB3	1:D:650:ILE:HG22	1.44	0.97
1:F:275:LEU:HD11	1:R:275:LEU:CG	1.67	0.97
1:F:325:LEU:HD22	1:N:165:GLU:OE1	1.49	0.97
1:G:605:SER:HB3	1:G:650:ILE:HG22	1.44	0.97
1:K:601:LEU:HD11	1:K:650:ILE:CG1	1.93	0.97
1:R:602:PRO:HG2	1:R:605:SER:CB	1.93	0.97
1:B:601:LEU:HD13	1:B:650:ILE:HD11	1.45	0.97
1:C:311:THR:CG2	1:S:292:TYR:HE2	1.77	0.97
1:J:448:PRO:O	1:J:449:ARG:CB	2.13	0.97
1:N:311:THR:CG2	1:R:292:TYR:HE2	1.76	0.97
1:T:280:SER:HB3	1:T:334:HIS:CG	2.00	0.97
1:A:510:VAL:HG12	1:A:511:PHE:N	1.76	0.97
1:C:510:VAL:HG12	1:C:511:PHE:N	1.76	0.97
1:H:259:ARG:NE	1:T:223:GLY:O	1.98	0.97
1:H:311:THR:CG2	1:O:292:TYR:HE2	1.76	0.97
1:H:448:PRO:O	1:H:449:ARG:HB2	1.65	0.97
1:L:448:PRO:O	1:L:449:ARG:CB	2.13	0.97
1:N:448:PRO:O	1:N:449:ARG:HB2	1.65	0.97
1:P:397:GLN:HB2	1:P:521:GLN:HA	1.47	0.97
1:T:605:SER:HB3	1:T:650:ILE:HG22	1.43	0.97
1:C:190:LYS:HB2	1:C:652:LEU:HD13	1.47	0.97
1:C:601:LEU:HD11	1:C:650:ILE:HG12	1.43	0.97
1:D:448:PRO:O	1:D:449:ARG:CB	2.13	0.97
1:F:387:ARG:HH22	1:N:348:LEU:CD2	1.77	0.97
1:H:601:LEU:HD11	1:H:650:ILE:CG1	1.93	0.97
1:I:448:PRO:O	1:I:449:ARG:CB	2.13	0.97
1:R:487:ILE:HG22	1:R:510:VAL:HG22	1.44	0.97
1:B:200:TYR:OH	1:D:328:PRO:CG	2.13	0.97
1:B:387:ARG:HH22	1:D:348:LEU:CD2	1.78	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:601:LEU:HD11	1:B:650:ILE:CG1	1.94	0.97
1:C:311:THR:HG21	1:S:292:TYR:HE2	0.81	0.97
1:C:448:PRO:O	1:C:449:ARG:CB	2.13	0.97
1:D:280:SER:HB3	1:D:334:HIS:CG	2.00	0.97
1:F:348:LEU:CD2	1:N:387:ARG:HH22	1.77	0.97
1:H:605:SER:HB3	1:H:650:ILE:HG22	1.43	0.97
1:K:601:LEU:HD13	1:K:650:ILE:HD11	1.45	0.97
1:L:223:GLY:O	1:T:259:ARG:NE	1.98	0.97
1:M:397:GLN:HB2	1:M:521:GLN:HA	1.47	0.97
1:O:397:GLN:HB2	1:O:521:GLN:HA	1.47	0.97
1:F:387:ARG:NH1	1:N:348:LEU:HD23	1.78	0.97
1:F:601:LEU:HD13	1:F:650:ILE:HD11	1.46	0.97
1:L:510:VAL:HG12	1:L:511:PHE:N	1.76	0.97
1:L:601:LEU:HD13	1:L:650:ILE:HD11	1.46	0.97
1:M:274:THR:O	1:Q:275:LEU:HD12	1.61	0.97
1:M:448:PRO:O	1:M:449:ARG:HB2	1.65	0.97
1:N:223:GLY:O	1:R:259:ARG:NE	1.98	0.97
1:N:605:SER:HB3	1:N:650:ILE:HG22	1.44	0.97
1:D:190:LYS:HB2	1:D:652:LEU:HD13	1.47	0.96
1:E:190:LYS:HB2	1:E:652:LEU:HD13	1.47	0.96
1:E:605:SER:HB3	1:E:650:ILE:HG22	1.43	0.96
1:G:223:GLY:O	1:N:259:ARG:NE	1.98	0.96
1:G:226:VAL:HG23	1:N:226:VAL:HA	1.42	0.96
1:Q:200:TYR:OH	1:R:328:PRO:CG	2.13	0.96
1:T:601:LEU:HD13	1:T:650:ILE:HD11	1.45	0.96
1:E:602:PRO:HG2	1:E:605:SER:CB	1.93	0.96
1:N:280:SER:HB3	1:N:334:HIS:CG	2.00	0.96
1:P:602:PRO:HG2	1:P:605:SER:CB	1.93	0.96
1:A:602:PRO:HG2	1:A:605:SER:CB	1.93	0.96
1:D:259:ARG:NE	1:S:223:GLY:O	1.98	0.96
1:J:223:GLY:O	1:P:259:ARG:NE	1.98	0.96
1:J:280:SER:HB3	1:J:334:HIS:CG	2.00	0.96
1:M:601:LEU:HD13	1:M:650:ILE:HD11	1.45	0.96
1:N:397:GLN:HB2	1:N:521:GLN:HA	1.47	0.96
1:R:280:SER:HB3	1:R:334:HIS:CG	2.00	0.96
1:A:200:TYR:OH	1:E:328:PRO:CG	2.13	0.96
1:A:328:PRO:CG	1:E:200:TYR:OH	2.14	0.96
1:A:387:ARG:HH22	1:E:348:LEU:CD2	1.78	0.96
1:C:223:GLY:O	1:S:259:ARG:NE	1.98	0.96
1:D:602:PRO:HG2	1:D:605:SER:CB	1.93	0.96
1:F:203:HIS:HE2	1:N:203:HIS:HE2	0.98	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:328:PRO:CG	1:N:200:TYR:OH	2.14	0.96
1:G:510:VAL:HG12	1:G:511:PHE:N	1.76	0.96
1:G:601:LEU:CD1	1:G:650:ILE:HD13	1.77	0.96
1:H:311:THR:HG21	1:O:292:TYR:HE2	0.81	0.96
1:H:397:GLN:HB2	1:H:521:GLN:HA	1.47	0.96
1:M:259:ARG:NE	1:R:223:GLY:O	1.98	0.96
1:M:292:TYR:HE2	1:R:311:THR:HG21	0.82	0.96
1:N:601:LEU:HD11	1:N:650:ILE:CG1	1.93	0.96
1:O:280:SER:HB3	1:O:334:HIS:CG	2.00	0.96
1:S:280:SER:HB3	1:S:334:HIS:CG	2.00	0.96
1:S:397:GLN:HB2	1:S:521:GLN:HA	1.47	0.96
1:E:223:GLY:O	1:L:259:ARG:NE	1.98	0.96
1:E:292:TYR:HE2	1:O:311:THR:HG21	0.81	0.96
1:F:311:THR:HG21	1:K:292:TYR:HE2	0.81	0.96
1:H:223:GLY:O	1:O:259:ARG:NE	1.98	0.96
1:K:487:ILE:HG22	1:K:510:VAL:HG22	1.45	0.96
1:M:280:SER:HB3	1:M:334:HIS:CG	2.00	0.96
1:N:448:PRO:O	1:N:449:ARG:CB	2.12	0.96
1:O:437:VAL:HG12	1:O:438:THR:N	1.64	0.96
1:R:397:GLN:HB2	1:R:521:GLN:HA	1.47	0.96
1:A:280:SER:HB3	1:A:334:HIS:CG	2.00	0.96
1:B:226:VAL:HA	1:Q:226:VAL:HG23	1.42	0.96
1:C:601:LEU:HD13	1:C:650:ILE:HD11	1.46	0.96
1:E:280:SER:HB3	1:E:334:HIS:CG	2.00	0.96
1:G:280:SER:HB3	1:G:334:HIS:CG	2.00	0.96
1:G:448:PRO:O	1:G:449:ARG:CB	2.13	0.96
1:G:605:SER:CB	1:G:650:ILE:CG2	2.44	0.96
1:I:601:LEU:HD11	1:I:650:ILE:CG1	1.94	0.96
1:L:200:TYR:OH	1:S:328:PRO:CG	2.13	0.96
1:L:397:GLN:HB2	1:L:521:GLN:HA	1.47	0.96
1:L:605:SER:CB	1:L:650:ILE:CG2	2.44	0.96
1:P:311:THR:HG21	1:Q:292:TYR:HE2	0.81	0.96
1:Q:348:LEU:CD2	1:R:387:ARG:HH22	1.78	0.96
1:Q:387:ARG:HH22	1:R:348:LEU:CD2	1.78	0.96
1:B:397:GLN:HB2	1:B:521:GLN:HA	1.47	0.96
1:C:259:ARG:NE	1:K:223:GLY:O	1.98	0.96
1:D:223:GLY:O	1:F:259:ARG:NE	1.98	0.96
1:E:259:ARG:NE	1:O:223:GLY:O	1.98	0.96
1:E:397:GLN:HB2	1:E:521:GLN:HA	1.47	0.96
1:G:311:THR:HG21	1:N:292:TYR:HE2	0.81	0.96
1:G:448:PRO:O	1:G:449:ARG:HB2	1.65	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:448:PRO:O	1:H:449:ARG:CB	2.13	0.96
1:I:292:TYR:HE2	1:M:311:THR:HG21	0.81	0.96
1:J:601:LEU:HD13	1:J:650:ILE:HD11	1.46	0.96
1:N:605:SER:CB	1:N:650:ILE:CG2	2.44	0.96
1:P:223:GLY:O	1:Q:259:ARG:NE	1.98	0.96
1:S:510:VAL:HG12	1:S:511:PHE:N	1.76	0.96
1:A:292:TYR:HE2	1:B:311:THR:HG21	0.81	0.96
1:B:259:ARG:NE	1:Q:223:GLY:O	1.98	0.96
1:B:348:LEU:CD2	1:D:387:ARG:HH22	1.78	0.96
1:D:311:THR:HG21	1:F:292:TYR:HE2	0.81	0.96
1:G:259:ARG:NE	1:I:223:GLY:O	1.98	0.96
1:H:190:LYS:CB	1:H:652:LEU:HD13	1.77	0.96
1:K:510:VAL:HG12	1:K:511:PHE:N	1.76	0.96
1:Q:203:HIS:HE2	1:R:203:HIS:HE2	0.98	0.96
1:S:448:PRO:O	1:S:449:ARG:HB2	1.65	0.96
1:A:165:GLU:OE1	1:E:325:LEU:HD22	1.49	0.96
1:C:605:SER:CB	1:C:650:ILE:CG2	2.44	0.96
1:D:439:THR:OG1	1:D:457:ILE:CG1	2.14	0.96
1:E:275:LEU:HD11	1:J:275:LEU:HA	1.16	0.96
1:L:280:SER:HB3	1:L:334:HIS:CG	2.00	0.96
1:P:605:SER:CB	1:P:650:ILE:CG2	2.44	0.96
1:Q:280:SER:HB3	1:Q:334:HIS:CG	2.00	0.96
1:R:448:PRO:O	1:R:449:ARG:HB2	1.65	0.96
1:R:605:SER:HB3	1:R:650:ILE:HG22	1.43	0.96
1:E:601:LEU:HD13	1:E:650:ILE:HD11	1.45	0.96
1:H:439:THR:OG1	1:H:457:ILE:CG1	2.14	0.96
1:M:439:THR:OG1	1:M:457:ILE:CG1	2.14	0.96
1:O:601:LEU:HD13	1:O:650:ILE:HD11	1.45	0.96
1:C:397:GLN:HB2	1:C:521:GLN:HA	1.47	0.95
1:G:190:LYS:HB2	1:G:652:LEU:HD13	1.47	0.95
1:I:601:LEU:HD11	1:I:650:ILE:HG12	1.43	0.95
1:J:311:THR:HG21	1:P:292:TYR:HE2	0.81	0.95
1:L:601:LEU:CD1	1:L:650:ILE:HD13	1.77	0.95
1:M:292:TYR:HE2	1:R:311:THR:CG2	1.77	0.95
1:O:448:PRO:O	1:O:449:ARG:HB2	1.65	0.95
1:Q:448:PRO:O	1:Q:449:ARG:CB	2.13	0.95
1:B:292:TYR:HE2	1:Q:311:THR:HG21	0.81	0.95
1:D:271:LEU:HB3	1:L:324:LEU:HD21	1.48	0.95
1:F:605:SER:CB	1:F:650:ILE:CG2	2.44	0.95
1:H:605:SER:CB	1:H:650:ILE:CG2	2.44	0.95
1:J:487:ILE:HG22	1:J:510:VAL:HG22	1.45	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:605:SER:CB	1:M:650:ILE:CG2	2.44	0.95
1:P:226:VAL:HG23	1:Q:226:VAL:HA	1.42	0.95
1:P:487:ILE:HG22	1:P:510:VAL:HG22	1.45	0.95
1:Q:448:PRO:O	1:Q:449:ARG:HB2	1.65	0.95
1:R:601:LEU:HD11	1:R:650:ILE:CG1	1.94	0.95
1:A:448:PRO:O	1:A:449:ARG:HB2	1.65	0.95
1:G:397:GLN:HB2	1:G:521:GLN:HA	1.47	0.95
1:H:280:SER:HB3	1:H:334:HIS:CG	2.00	0.95
1:I:439:THR:OG1	1:I:457:ILE:CG1	2.14	0.95
1:M:448:PRO:O	1:M:449:ARG:CB	2.13	0.95
1:O:605:SER:CB	1:O:650:ILE:CG2	2.44	0.95
1:P:510:VAL:HG12	1:P:511:PHE:N	1.76	0.95
1:Q:601:LEU:HD13	1:Q:650:ILE:HD11	1.46	0.95
1:F:200:TYR:OH	1:N:328:PRO:CG	2.13	0.95
1:K:448:PRO:O	1:K:449:ARG:CB	2.13	0.95
1:K:605:SER:CB	1:K:650:ILE:CG2	2.44	0.95
1:N:601:LEU:CD1	1:N:650:ILE:HD13	1.77	0.95
1:P:280:SER:HB3	1:P:334:HIS:CG	2.00	0.95
1:F:280:SER:HB3	1:F:334:HIS:CG	2.00	0.95
1:O:439:THR:OG1	1:O:457:ILE:CG1	2.14	0.95
1:P:190:LYS:HB2	1:P:652:LEU:HD13	1.47	0.95
1:T:190:LYS:HB2	1:T:652:LEU:HD13	1.47	0.95
1:A:223:GLY:O	1:J:259:ARG:NE	1.98	0.95
1:B:203:HIS:HE2	1:D:203:HIS:HE2	0.97	0.95
1:B:275:LEU:HA	1:R:275:LEU:HD11	1.16	0.95
1:E:510:VAL:HG12	1:E:511:PHE:N	1.76	0.95
1:L:448:PRO:O	1:L:449:ARG:HB2	1.65	0.95
1:P:439:THR:OG1	1:P:457:ILE:CG1	2.14	0.95
1:A:311:THR:CG2	1:J:292:TYR:HE2	1.76	0.95
1:B:328:PRO:CG	1:D:200:TYR:OH	2.13	0.95
1:B:487:ILE:HG22	1:B:510:VAL:HG22	1.45	0.95
1:C:448:PRO:O	1:C:449:ARG:HB2	1.65	0.95
1:F:223:GLY:O	1:K:259:ARG:NE	1.98	0.95
1:I:605:SER:CB	1:I:650:ILE:CG2	2.44	0.95
1:M:510:VAL:HG12	1:M:511:PHE:N	1.76	0.95
1:M:601:LEU:CD1	1:M:650:ILE:HD13	1.77	0.95
1:N:190:LYS:HB2	1:N:652:LEU:HD13	1.47	0.95
1:R:439:THR:OG1	1:R:457:ILE:CG1	2.14	0.95
1:R:601:LEU:HD13	1:R:650:ILE:HD11	1.45	0.95
1:A:448:PRO:O	1:A:449:ARG:CB	2.13	0.95
1:B:439:THR:OG1	1:B:457:ILE:CG1	2.14	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:190:LYS:HB2	1:J:652:LEU:HD13	1.47	0.95
1:K:439:THR:OG1	1:K:457:ILE:CG1	2.14	0.95
1:L:190:LYS:HB2	1:L:652:LEU:HD13	1.47	0.95
1:O:411:PHE:HD1	1:O:418:ASP:HB3	1.05	0.95
1:S:439:THR:OG1	1:S:457:ILE:CG1	2.14	0.95
1:A:605:SER:CB	1:A:650:ILE:CG2	2.44	0.95
1:K:397:GLN:HB2	1:K:521:GLN:HA	1.47	0.95
1:R:190:LYS:HB2	1:R:652:LEU:HD13	1.47	0.95
1:C:280:SER:HB3	1:C:334:HIS:CG	2.00	0.95
1:F:448:PRO:O	1:F:449:ARG:HB2	1.65	0.95
1:G:411:PHE:HD1	1:G:418:ASP:HB3	1.05	0.95
1:J:605:SER:CB	1:J:650:ILE:CG2	2.44	0.95
1:P:448:PRO:O	1:P:449:ARG:HB2	1.65	0.95
1:Q:328:PRO:CG	1:R:200:TYR:OH	2.14	0.95
1:Q:397:GLN:HB2	1:Q:521:GLN:HA	1.47	0.95
1:S:190:LYS:HB2	1:S:652:LEU:HD13	1.47	0.95
1:A:271:LEU:HB3	1:D:324:LEU:HD21	1.48	0.94
1:C:439:THR:HG1	1:C:457:ILE:HG12	1.30	0.94
1:I:259:ARG:NE	1:M:223:GLY:O	1.98	0.94
1:T:397:GLN:HB2	1:T:521:GLN:HA	1.47	0.94
1:I:474:ARG:H	1:I:524:ASP:HA	1.33	0.94
1:J:397:GLN:HB2	1:J:521:GLN:HA	1.47	0.94
1:O:510:VAL:HG12	1:O:511:PHE:N	1.76	0.94
1:T:605:SER:CB	1:T:650:ILE:CG2	2.44	0.94
1:A:439:THR:OG1	1:A:457:ILE:CG1	2.14	0.94
1:B:577:ILE:HG13	1:B:578:ARG:H	1.33	0.94
1:D:411:PHE:HD1	1:D:418:ASP:HB3	1.05	0.94
1:E:324:LEU:HD21	1:J:271:LEU:HB3	1.48	0.94
1:F:275:LEU:HD11	1:R:275:LEU:HA	1.16	0.94
1:I:397:GLN:HB2	1:I:521:GLN:HA	1.47	0.94
1:I:448:PRO:O	1:I:449:ARG:HB2	1.65	0.94
1:M:474:ARG:H	1:M:524:ASP:HA	1.33	0.94
1:O:448:PRO:O	1:O:449:ARG:CB	2.12	0.94
1:S:324:LEU:HD21	1:T:271:LEU:HB3	1.48	0.94
1:B:324:LEU:HD21	1:F:271:LEU:HB3	1.48	0.94
1:D:605:SER:CB	1:D:650:ILE:CG2	2.44	0.94
1:H:292:TYR:HE2	1:T:311:THR:HG21	0.81	0.94
1:I:577:ILE:HG13	1:I:578:ARG:H	1.33	0.94
1:J:448:PRO:O	1:J:449:ARG:HB2	1.65	0.94
1:M:271:LEU:HB3	1:Q:324:LEU:HD21	1.48	0.94
1:Q:439:THR:OG1	1:Q:457:ILE:CG1	2.14	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:605:SER:CB	1:Q:650:ILE:CG2	2.44	0.94
1:S:605:SER:CB	1:S:650:ILE:CG2	2.44	0.94
1:T:577:ILE:HG13	1:T:578:ARG:H	1.33	0.94
1:A:271:LEU:HB3	1:D:324:LEU:CD1	1.98	0.94
1:D:577:ILE:HG13	1:D:578:ARG:H	1.33	0.94
1:J:474:ARG:H	1:J:524:ASP:HA	1.33	0.94
1:L:577:ILE:HG13	1:L:578:ARG:H	1.33	0.94
1:N:474:ARG:H	1:N:524:ASP:HA	1.33	0.94
1:O:487:ILE:HG22	1:O:510:VAL:HG22	1.45	0.94
1:R:577:ILE:HG13	1:R:578:ARG:H	1.33	0.94
1:A:259:ARG:NE	1:B:223:GLY:O	1.98	0.94
1:B:190:LYS:HB2	1:B:652:LEU:HD13	1.47	0.94
1:B:448:PRO:O	1:B:449:ARG:CB	2.13	0.94
1:B:605:SER:CB	1:B:650:ILE:CG2	2.44	0.94
1:E:311:THR:HG21	1:L:292:TYR:HE2	0.82	0.94
1:E:439:THR:OG1	1:E:457:ILE:CG1	2.14	0.94
1:F:411:PHE:HD1	1:F:418:ASP:HB3	1.05	0.94
1:K:448:PRO:O	1:K:449:ARG:HB2	1.65	0.94
1:L:328:PRO:CG	1:S:200:TYR:OH	2.13	0.94
1:T:448:PRO:O	1:T:449:ARG:HB2	1.65	0.94
1:A:190:LYS:HB2	1:A:652:LEU:HD13	1.47	0.94
1:B:324:LEU:CD1	1:F:271:LEU:HB3	1.98	0.94
1:F:397:GLN:HB2	1:F:521:GLN:HA	1.47	0.94
1:F:448:PRO:O	1:F:449:ARG:CB	2.13	0.94
1:K:474:ARG:H	1:K:524:ASP:HA	1.33	0.94
1:L:439:THR:OG1	1:L:457:ILE:CG1	2.14	0.94
1:A:397:GLN:HB2	1:A:521:GLN:HA	1.47	0.94
1:B:325:LEU:HD22	1:D:165:GLU:OE1	1.49	0.94
1:E:605:SER:CB	1:E:650:ILE:CG2	2.44	0.94
1:F:190:LYS:HB2	1:F:652:LEU:HD13	1.47	0.94
1:F:324:LEU:HD21	1:R:271:LEU:HB3	1.48	0.94
1:F:324:LEU:CD1	1:R:271:LEU:HB3	1.98	0.94
1:P:474:ARG:H	1:P:524:ASP:HA	1.33	0.94
1:D:448:PRO:O	1:D:449:ARG:HB2	1.65	0.94
1:E:324:LEU:CD1	1:J:271:LEU:HB3	1.98	0.94
1:G:439:THR:OG1	1:G:457:ILE:CG1	2.14	0.94
1:H:577:ILE:HG13	1:H:578:ARG:H	1.33	0.94
1:J:439:THR:OG1	1:J:457:ILE:CG1	2.14	0.94
1:N:510:VAL:HG12	1:N:511:PHE:N	1.76	0.94
1:O:474:ARG:H	1:O:524:ASP:HA	1.32	0.94
1:Q:510:VAL:HG12	1:Q:511:PHE:N	1.76	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:605:SER:CB	1:R:650:ILE:CG2	2.44	0.94
1:S:474:ARG:H	1:S:524:ASP:HA	1.33	0.94
1:D:601:LEU:HD13	1:D:650:ILE:HD11	1.46	0.94
1:M:190:LYS:HB2	1:M:652:LEU:HD13	1.47	0.94
1:M:271:LEU:HB3	1:Q:324:LEU:CD1	1.98	0.94
1:R:451:TYR:CA	1:R:458:VAL:CG2	2.36	0.94
1:H:190:LYS:HB2	1:H:652:LEU:HD13	1.47	0.93
1:N:439:THR:OG1	1:N:457:ILE:CG1	2.14	0.93
1:S:448:PRO:O	1:S:449:ARG:CB	2.13	0.93
1:B:190:LYS:CB	1:B:652:LEU:HD13	1.77	0.93
1:F:601:LEU:CD1	1:F:650:ILE:HD13	1.77	0.93
1:Q:190:LYS:HB2	1:Q:652:LEU:HD13	1.47	0.93
1:T:544:ARG:HD3	1:T:553:LEU:HD21	1.50	0.93
1:B:271:LEU:HB3	1:R:324:LEU:CD1	1.98	0.93
1:C:439:THR:OG1	1:C:457:ILE:CG1	2.14	0.93
1:H:474:ARG:H	1:H:524:ASP:HA	1.33	0.93
1:O:190:LYS:HB2	1:O:652:LEU:HD13	1.47	0.93
1:R:510:VAL:CG1	1:R:511:PHE:H	1.82	0.93
1:T:439:THR:OG1	1:T:457:ILE:CG1	2.14	0.93
1:A:474:ARG:H	1:A:524:ASP:HA	1.33	0.93
1:C:577:ILE:HG13	1:C:578:ARG:H	1.33	0.93
1:D:510:VAL:CG1	1:D:511:PHE:H	1.82	0.93
1:F:439:THR:OG1	1:F:457:ILE:CG1	2.14	0.93
1:G:544:ARG:HD3	1:G:553:LEU:HD21	1.51	0.93
1:M:439:THR:HG1	1:M:457:ILE:HG12	1.10	0.93
1:G:219:PHE:HB3	1:G:312:VAL:HA	1.50	0.93
1:L:203:HIS:HE2	1:S:203:HIS:HE2	0.98	0.93
1:P:219:PHE:HB3	1:P:312:VAL:HA	1.51	0.93
1:A:324:LEU:CD1	1:L:271:LEU:HB3	1.98	0.93
1:C:544:ARG:HD3	1:C:553:LEU:HD21	1.51	0.93
1:G:190:LYS:CB	1:G:652:LEU:HD13	1.77	0.93
1:M:275:LEU:HA	1:Q:275:LEU:HD11	1.17	0.93
1:Q:474:ARG:H	1:Q:524:ASP:HA	1.33	0.93
1:Q:544:ARG:HD3	1:Q:553:LEU:HD21	1.50	0.93
1:R:601:LEU:CD1	1:R:650:ILE:HD13	1.77	0.93
1:A:324:LEU:HD21	1:L:271:LEU:HB3	1.48	0.93
1:A:352:ASN:ND2	1:A:586:GLN:H	1.67	0.93
1:A:577:ILE:HG13	1:A:578:ARG:H	1.33	0.93
1:C:219:PHE:HB3	1:C:312:VAL:HA	1.51	0.93
1:E:352:ASN:ND2	1:E:586:GLN:H	1.67	0.93
1:E:448:PRO:O	1:E:449:ARG:HB2	1.65	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:219:PHE:HB3	1:S:312:VAL:HA	1.51	0.93
1:S:555:GLU:O	1:S:556:THR:HG23	1.69	0.93
1:S:577:ILE:HG13	1:S:578:ARG:H	1.32	0.93
1:T:474:ARG:H	1:T:524:ASP:HA	1.33	0.93
1:F:577:ILE:HG13	1:F:578:ARG:H	1.33	0.93
1:I:190:LYS:HB2	1:I:652:LEU:HD13	1.47	0.93
1:J:555:GLU:O	1:J:556:THR:HG23	1.69	0.93
1:K:271:LEU:HB3	1:N:324:LEU:HD21	1.48	0.93
1:N:219:PHE:HB3	1:N:312:VAL:HA	1.51	0.93
1:O:544:ARG:HD3	1:O:553:LEU:HD21	1.50	0.93
1:P:352:ASN:ND2	1:P:586:GLN:H	1.67	0.93
1:P:555:GLU:O	1:P:556:THR:HG23	1.69	0.93
1:A:555:GLU:O	1:A:556:THR:HG23	1.69	0.93
1:B:448:PRO:O	1:B:449:ARG:HB2	1.65	0.93
1:B:510:VAL:CG1	1:B:511:PHE:H	1.82	0.93
1:C:352:ASN:ND2	1:C:586:GLN:H	1.67	0.93
1:I:352:ASN:ND2	1:I:586:GLN:H	1.67	0.93
1:I:510:VAL:HG12	1:I:511:PHE:N	1.76	0.93
1:I:544:ARG:HD3	1:I:553:LEU:HD21	1.50	0.93
1:J:352:ASN:ND2	1:J:586:GLN:H	1.67	0.93
1:L:544:ARG:HD3	1:L:553:LEU:HD21	1.51	0.93
1:M:510:VAL:CG1	1:M:511:PHE:H	1.82	0.93
1:Q:555:GLU:O	1:Q:556:THR:HG23	1.69	0.93
1:S:352:ASN:ND2	1:S:586:GLN:H	1.67	0.93
1:T:448:PRO:O	1:T:449:ARG:CB	2.13	0.93
1:A:219:PHE:HB3	1:A:312:VAL:HA	1.51	0.93
1:L:510:VAL:CG1	1:L:511:PHE:H	1.82	0.93
1:N:555:GLU:O	1:N:556:THR:HG23	1.69	0.93
1:R:219:PHE:HB3	1:R:312:VAL:HA	1.50	0.93
1:R:352:ASN:ND2	1:R:586:GLN:H	1.67	0.93
1:S:510:VAL:CG1	1:S:511:PHE:H	1.82	0.93
1:T:352:ASN:ND2	1:T:586:GLN:H	1.67	0.93
1:B:219:PHE:HB3	1:B:312:VAL:HA	1.50	0.92
1:C:292:TYR:HE2	1:K:311:THR:HG21	0.81	0.92
1:E:474:ARG:H	1:E:524:ASP:HA	1.33	0.92
1:F:510:VAL:CG1	1:F:511:PHE:H	1.82	0.92
1:S:324:LEU:CD1	1:T:271:LEU:HB3	1.98	0.92
1:B:544:ARG:HD3	1:B:553:LEU:HD21	1.50	0.92
1:H:352:ASN:ND2	1:H:586:GLN:H	1.67	0.92
1:K:271:LEU:HB3	1:N:324:LEU:CD1	1.98	0.92
1:Q:200:TYR:OH	1:R:328:PRO:HG2	1.69	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:172:PHE:HB2	1:N:253:HIS:HE1	1.35	0.92
1:K:352:ASN:ND2	1:K:586:GLN:H	1.67	0.92
1:M:352:ASN:ND2	1:M:586:GLN:H	1.67	0.92
1:N:510:VAL:CG1	1:N:511:PHE:H	1.82	0.92
1:O:510:VAL:CG1	1:O:511:PHE:H	1.82	0.92
1:R:544:ARG:HD3	1:R:553:LEU:HD21	1.50	0.92
1:R:555:GLU:O	1:R:556:THR:HG23	1.69	0.92
1:T:510:VAL:CG1	1:T:511:PHE:H	1.82	0.92
1:C:474:ARG:H	1:C:524:ASP:HA	1.33	0.92
1:D:474:ARG:H	1:D:524:ASP:HA	1.33	0.92
1:F:200:TYR:OH	1:N:328:PRO:HG2	1.69	0.92
1:H:510:VAL:CG1	1:H:511:PHE:H	1.82	0.92
1:M:577:ILE:HG13	1:M:578:ARG:H	1.33	0.92
1:Q:387:ARG:HH22	1:R:348:LEU:HD23	1.31	0.92
1:A:200:TYR:OH	1:E:328:PRO:HG2	1.69	0.92
1:E:544:ARG:HD3	1:E:553:LEU:HD21	1.51	0.92
1:F:219:PHE:HB3	1:F:312:VAL:HA	1.51	0.92
1:F:544:ARG:HD3	1:F:553:LEU:HD21	1.50	0.92
1:K:219:PHE:HB3	1:K:312:VAL:HA	1.51	0.92
1:K:555:GLU:O	1:K:556:THR:HG23	1.69	0.92
1:M:544:ARG:HD3	1:M:553:LEU:HD21	1.51	0.92
1:Q:510:VAL:CG1	1:Q:511:PHE:H	1.82	0.92
1:B:165:GLU:OE1	1:D:325:LEU:CG	2.18	0.92
1:B:200:TYR:OH	1:D:328:PRO:HG2	1.69	0.92
1:E:219:PHE:HB3	1:E:312:VAL:HA	1.51	0.92
1:F:348:LEU:HD23	1:N:387:ARG:HH22	1.31	0.92
1:F:352:ASN:ND2	1:F:586:GLN:H	1.67	0.92
1:H:555:GLU:O	1:H:556:THR:HG23	1.69	0.92
1:L:328:PRO:HG2	1:S:200:TYR:OH	1.69	0.92
1:N:577:ILE:HG13	1:N:578:ARG:H	1.32	0.92
1:Q:165:GLU:OE1	1:R:325:LEU:CG	2.18	0.92
1:T:555:GLU:O	1:T:556:THR:HG23	1.69	0.92
1:B:253:HIS:HE1	1:Q:172:PHE:HB2	1.35	0.92
1:D:271:LEU:HB3	1:L:324:LEU:CD1	1.98	0.92
1:E:439:THR:HG1	1:E:457:ILE:HG12	1.11	0.92
1:F:328:PRO:HG2	1:N:200:TYR:OH	1.69	0.92
1:F:510:VAL:HG12	1:F:511:PHE:N	1.76	0.92
1:F:555:GLU:O	1:F:556:THR:HG23	1.69	0.92
1:G:555:GLU:O	1:G:556:THR:HG23	1.69	0.92
1:K:510:VAL:CG1	1:K:511:PHE:H	1.82	0.92
1:M:555:GLU:O	1:M:556:THR:HG23	1.69	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:544:ARG:HD3	1:N:553:LEU:HD21	1.50	0.92
1:Q:577:ILE:HG13	1:Q:578:ARG:H	1.33	0.92
1:A:510:VAL:CG1	1:A:511:PHE:H	1.82	0.92
1:C:510:VAL:CG1	1:C:511:PHE:H	1.82	0.92
1:I:510:VAL:CG1	1:I:511:PHE:H	1.82	0.92
1:L:165:GLU:OE1	1:S:325:LEU:CG	2.18	0.92
1:Q:352:ASN:ND2	1:Q:586:GLN:H	1.67	0.92
1:R:474:ARG:H	1:R:524:ASP:HA	1.33	0.92
1:S:451:TYR:CA	1:S:458:VAL:CG2	2.37	0.92
1:A:172:PHE:HB2	1:J:253:HIS:HE1	1.35	0.92
1:B:474:ARG:H	1:B:524:ASP:HA	1.33	0.92
1:D:352:ASN:ND2	1:D:586:GLN:H	1.67	0.92
1:D:555:GLU:O	1:D:556:THR:HG23	1.69	0.92
1:L:200:TYR:OH	1:S:328:PRO:HG2	1.69	0.92
1:A:190:LYS:CB	1:A:652:LEU:HD13	1.77	0.92
1:A:325:LEU:CG	1:E:165:GLU:OE1	2.18	0.92
1:D:253:HIS:HE1	1:S:172:PHE:HB2	1.35	0.92
1:F:474:ARG:H	1:F:524:ASP:HA	1.33	0.92
1:G:510:VAL:CG1	1:G:511:PHE:H	1.82	0.92
1:H:172:PHE:HB2	1:O:253:HIS:HE1	1.35	0.92
1:L:219:PHE:HB3	1:L:312:VAL:HA	1.51	0.92
1:O:352:ASN:ND2	1:O:586:GLN:H	1.67	0.92
1:P:439:THR:HG1	1:P:457:ILE:HG12	1.09	0.92
1:P:448:PRO:O	1:P:449:ARG:CB	2.13	0.92
1:Q:328:PRO:HG2	1:R:200:TYR:OH	1.69	0.92
1:Q:348:LEU:HD23	1:R:387:ARG:HH22	1.31	0.92
1:F:165:GLU:OE1	1:N:325:LEU:CG	2.18	0.91
1:B:555:GLU:O	1:B:556:THR:HG23	1.69	0.91
1:E:555:GLU:O	1:E:556:THR:HG23	1.69	0.91
1:K:464:LYS:HA	1:K:533:THR:HG21	1.53	0.91
1:P:544:ARG:HD3	1:P:553:LEU:HD21	1.50	0.91
1:S:544:ARG:HD3	1:S:553:LEU:HD21	1.51	0.91
1:A:275:LEU:HD11	1:L:275:LEU:HA	1.16	0.91
1:F:172:PHE:HB2	1:K:253:HIS:HE1	1.35	0.91
1:H:219:PHE:HB3	1:H:312:VAL:HA	1.51	0.91
1:H:253:HIS:HE1	1:T:172:PHE:HB2	1.35	0.91
1:K:411:PHE:HD1	1:K:418:ASP:HB3	1.05	0.91
1:Q:325:LEU:CG	1:R:165:GLU:OE1	2.18	0.91
1:Q:464:LYS:HA	1:Q:533:THR:HG21	1.53	0.91
1:R:448:PRO:O	1:R:449:ARG:CB	2.13	0.91
1:L:325:LEU:CG	1:S:165:GLU:OE1	2.18	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:253:HIS:HE1	1:R:172:PHE:HB2	1.35	0.91
1:A:464:LYS:HA	1:A:533:THR:HG21	1.52	0.91
1:A:544:ARG:HD3	1:A:553:LEU:HD21	1.50	0.91
1:E:253:HIS:HE1	1:O:172:PHE:HB2	1.35	0.91
1:G:464:LYS:HA	1:G:533:THR:HG21	1.53	0.91
1:N:172:PHE:HB2	1:R:253:HIS:HE1	1.35	0.91
1:B:271:LEU:HB3	1:R:324:LEU:HD21	1.48	0.91
1:G:474:ARG:H	1:G:524:ASP:HA	1.33	0.91
1:G:577:ILE:HG13	1:G:578:ARG:H	1.33	0.91
1:P:172:PHE:HB2	1:Q:253:HIS:HE1	1.35	0.91
1:P:577:ILE:HG13	1:P:578:ARG:H	1.33	0.91
1:S:464:LYS:HA	1:S:533:THR:HG21	1.52	0.91
1:B:325:LEU:CG	1:D:165:GLU:OE1	2.18	0.91
1:H:555:GLU:O	1:H:556:THR:CG2	2.19	0.91
1:J:219:PHE:HB3	1:J:312:VAL:HA	1.51	0.91
1:J:510:VAL:CG1	1:J:511:PHE:H	1.82	0.91
1:J:577:ILE:HG13	1:J:578:ARG:H	1.33	0.91
1:O:577:ILE:HG13	1:O:578:ARG:H	1.33	0.91
1:Q:439:THR:HG1	1:Q:457:ILE:HG12	1.09	0.91
1:D:219:PHE:HB3	1:D:312:VAL:HA	1.51	0.91
1:J:464:LYS:HA	1:J:533:THR:HG21	1.53	0.91
1:M:464:LYS:HA	1:M:533:THR:HG21	1.52	0.91
1:P:510:VAL:CG1	1:P:511:PHE:H	1.82	0.91
1:S:555:GLU:O	1:S:556:THR:CG2	2.19	0.91
1:B:555:GLU:O	1:B:556:THR:CG2	2.19	0.91
1:E:172:PHE:HB2	1:L:253:HIS:HE1	1.35	0.91
1:I:219:PHE:HB3	1:I:312:VAL:HA	1.51	0.91
1:K:190:LYS:CB	1:K:652:LEU:HD13	1.77	0.91
1:L:352:ASN:ND2	1:L:586:GLN:H	1.67	0.91
1:L:555:GLU:O	1:L:556:THR:HG23	1.69	0.91
1:N:555:GLU:O	1:N:556:THR:CG2	2.19	0.91
1:B:439:THR:HG23	1:B:457:ILE:HD11	1.53	0.91
1:E:510:VAL:CG1	1:E:511:PHE:H	1.82	0.91
1:J:555:GLU:O	1:J:556:THR:CG2	2.19	0.91
1:M:190:LYS:CB	1:M:652:LEU:HD13	1.77	0.91
1:O:555:GLU:O	1:O:556:THR:HG23	1.69	0.91
1:B:328:PRO:HG2	1:D:200:TYR:OH	1.69	0.90
1:B:510:VAL:HG12	1:B:511:PHE:N	1.76	0.90
1:C:555:GLU:O	1:C:556:THR:HG23	1.69	0.90
1:E:577:ILE:HG13	1:E:578:ARG:H	1.33	0.90
1:F:325:LEU:CG	1:N:165:GLU:OE1	2.18	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:464:LYS:HA	1:H:533:THR:HG21	1.53	0.90
1:I:555:GLU:O	1:I:556:THR:HG23	1.69	0.90
1:K:544:ARG:HD3	1:K:553:LEU:HD21	1.50	0.90
1:N:352:ASN:ND2	1:N:586:GLN:H	1.67	0.90
1:O:219:PHE:HB3	1:O:312:VAL:HA	1.51	0.90
1:O:555:GLU:O	1:O:556:THR:CG2	2.19	0.90
1:P:555:GLU:O	1:P:556:THR:CG2	2.19	0.90
1:Q:219:PHE:HB3	1:Q:312:VAL:HA	1.51	0.90
1:S:439:THR:HG23	1:S:457:ILE:HD11	1.53	0.90
1:A:480:LYS:HZ1	1:E:575:TYR:CA	1.80	0.90
1:B:352:ASN:ND2	1:B:586:GLN:H	1.67	0.90
1:D:464:LYS:HA	1:D:533:THR:HG21	1.53	0.90
1:I:555:GLU:O	1:I:556:THR:CG2	2.19	0.90
1:J:439:THR:HG23	1:J:457:ILE:HD11	1.53	0.90
1:L:348:LEU:HD23	1:S:387:ARG:HH22	1.31	0.90
1:O:439:THR:HG1	1:O:457:ILE:HG12	1.23	0.90
1:R:555:GLU:O	1:R:556:THR:CG2	2.19	0.90
1:A:259:ARG:HH12	1:B:259:ARG:HA	1.37	0.90
1:B:259:ARG:HH12	1:Q:259:ARG:HA	1.37	0.90
1:D:439:THR:HG23	1:D:457:ILE:CD1	2.02	0.90
1:K:439:THR:HG23	1:K:457:ILE:HD11	1.53	0.90
1:P:259:ARG:HA	1:Q:259:ARG:HH12	1.37	0.90
1:S:326:LYS:HG3	1:T:237:PRO:HG3	1.54	0.90
1:T:439:THR:HG23	1:T:457:ILE:CD1	2.02	0.90
1:T:555:GLU:O	1:T:556:THR:CG2	2.19	0.90
1:A:165:GLU:OE1	1:E:325:LEU:CG	2.18	0.90
1:B:439:THR:HG23	1:B:457:ILE:CD1	2.02	0.90
1:E:439:THR:HG23	1:E:457:ILE:HD11	1.53	0.90
1:F:387:ARG:HH22	1:N:348:LEU:HD23	1.31	0.90
1:I:439:THR:HG23	1:I:457:ILE:CD1	2.02	0.90
1:M:219:PHE:HB3	1:M:312:VAL:HA	1.51	0.90
1:N:464:LYS:HA	1:N:533:THR:HG21	1.52	0.90
1:P:190:LYS:CB	1:P:652:LEU:CD1	2.49	0.90
1:B:464:LYS:HA	1:B:533:THR:HG21	1.52	0.90
1:G:253:HIS:HE1	1:I:172:PHE:HB2	1.35	0.90
1:K:439:THR:HG23	1:K:457:ILE:CD1	2.02	0.90
1:L:555:GLU:O	1:L:556:THR:CG2	2.19	0.90
1:A:326:LYS:HG3	1:L:237:PRO:HG3	1.54	0.90
1:A:328:PRO:HG2	1:E:200:TYR:OH	1.69	0.90
1:A:555:GLU:O	1:A:556:THR:CG2	2.19	0.90
1:B:411:PHE:HD1	1:B:418:ASP:HB3	1.05	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:555:GLU:O	1:C:556:THR:CG2	2.19	0.90
1:E:439:THR:HG23	1:E:457:ILE:CD1	2.02	0.90
1:G:555:GLU:O	1:G:556:THR:CG2	2.19	0.90
1:M:439:THR:HG23	1:M:457:ILE:CD1	2.02	0.90
1:M:555:GLU:O	1:M:556:THR:CG2	2.19	0.90
1:P:439:THR:HG23	1:P:457:ILE:HD11	1.53	0.90
1:T:190:LYS:CB	1:T:652:LEU:CD1	2.49	0.90
1:G:439:THR:HG23	1:G:457:ILE:CD1	2.02	0.90
1:J:439:THR:HG23	1:J:457:ILE:CD1	2.02	0.90
1:L:474:ARG:H	1:L:524:ASP:HA	1.32	0.90
1:N:439:THR:HG23	1:N:457:ILE:CD1	2.02	0.90
1:O:439:THR:HG23	1:O:457:ILE:CD1	2.02	0.90
1:D:544:ARG:HD3	1:D:553:LEU:HD21	1.50	0.90
1:E:259:ARG:HA	1:L:259:ARG:HH12	1.37	0.90
1:F:190:LYS:CB	1:F:652:LEU:CD1	2.49	0.90
1:G:352:ASN:ND2	1:G:586:GLN:H	1.67	0.90
1:J:544:ARG:HD3	1:J:553:LEU:HD21	1.50	0.90
1:L:439:THR:HG23	1:L:457:ILE:CD1	2.02	0.90
1:E:190:LYS:CB	1:E:652:LEU:CD1	2.49	0.90
1:E:230:LYS:HG2	1:O:222:SER:HB2	1.54	0.90
1:F:555:GLU:O	1:F:556:THR:CG2	2.19	0.90
1:G:259:ARG:HH12	1:I:259:ARG:HA	1.37	0.90
1:H:544:ARG:HD3	1:H:553:LEU:HD21	1.51	0.90
1:K:555:GLU:O	1:K:556:THR:CG2	2.19	0.90
1:M:439:THR:HG23	1:M:457:ILE:HD11	1.53	0.90
1:S:190:LYS:CB	1:S:652:LEU:HD13	1.77	0.90
1:B:348:LEU:HD23	1:D:387:ARG:HH22	1.31	0.90
1:D:439:THR:HG23	1:D:457:ILE:HD11	1.53	0.90
1:G:439:THR:HG23	1:G:457:ILE:HD11	1.53	0.90
1:H:259:ARG:HH12	1:T:259:ARG:HA	1.37	0.90
1:I:259:ARG:HH12	1:M:259:ARG:HA	1.37	0.90
1:I:439:THR:HG23	1:I:457:ILE:HD11	1.53	0.90
1:S:190:LYS:CB	1:S:652:LEU:CD1	2.49	0.90
1:B:326:LYS:HG3	1:F:237:PRO:HG3	1.54	0.89
1:D:259:ARG:HH12	1:S:259:ARG:HA	1.37	0.89
1:H:222:SER:HB2	1:O:230:LYS:HG2	1.54	0.89
1:I:464:LYS:HA	1:I:533:THR:HG21	1.53	0.89
1:K:577:ILE:HG13	1:K:578:ARG:H	1.33	0.89
1:C:439:THR:HG23	1:C:457:ILE:HD11	1.53	0.89
1:D:172:PHE:HB2	1:F:253:HIS:HE1	1.35	0.89
1:D:555:GLU:O	1:D:556:THR:CG2	2.19	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:222:SER:HB2	1:N:230:LYS:HG2	1.54	0.89
1:J:439:THR:HG1	1:J:457:ILE:HG12	1.15	0.89
1:L:172:PHE:HB2	1:T:253:HIS:HE1	1.35	0.89
1:L:190:LYS:CB	1:L:652:LEU:CD1	2.49	0.89
1:Q:555:GLU:O	1:Q:556:THR:CG2	2.19	0.89
1:A:236:VAL:HG23	1:A:286:SER:HB2	1.55	0.89
1:C:439:THR:HG23	1:C:457:ILE:CD1	2.02	0.89
1:E:259:ARG:HH12	1:O:259:ARG:HA	1.37	0.89
1:F:222:SER:HB2	1:K:230:LYS:HG2	1.54	0.89
1:N:222:SER:HB2	1:R:230:LYS:HG2	1.54	0.89
1:P:464:LYS:HA	1:P:533:THR:HG21	1.53	0.89
1:Q:439:THR:HG23	1:Q:457:ILE:HD11	1.53	0.89
1:Q:605:SER:HB3	1:Q:650:ILE:HG23	1.54	0.89
1:A:348:LEU:HD23	1:E:387:ARG:HH22	1.31	0.89
1:A:605:SER:HB3	1:A:650:ILE:HG23	1.55	0.89
1:B:190:LYS:CB	1:B:652:LEU:CD1	2.49	0.89
1:C:253:HIS:HE1	1:K:172:PHE:HB2	1.35	0.89
1:E:326:LYS:HG3	1:J:237:PRO:HG3	1.54	0.89
1:E:555:GLU:O	1:E:556:THR:CG2	2.19	0.89
1:G:230:LYS:HG2	1:I:222:SER:HB2	1.54	0.89
1:H:230:LYS:HG2	1:T:222:SER:HB2	1.54	0.89
1:H:439:THR:HG23	1:H:457:ILE:CD1	2.02	0.89
1:I:230:LYS:HG2	1:M:222:SER:HB2	1.54	0.89
1:Q:165:GLU:OE1	1:R:325:LEU:HD22	1.49	0.89
1:R:236:VAL:HG23	1:R:286:SER:HB2	1.54	0.89
1:R:439:THR:HG23	1:R:457:ILE:CD1	2.02	0.89
1:E:464:LYS:HA	1:E:533:THR:HG21	1.53	0.89
1:F:236:VAL:HG23	1:F:286:SER:HB2	1.54	0.89
1:G:236:VAL:HG23	1:G:286:SER:HB2	1.54	0.89
1:G:259:ARG:HA	1:N:259:ARG:HH12	1.37	0.89
1:L:464:LYS:HA	1:L:533:THR:HG21	1.53	0.89
1:Q:236:VAL:HG23	1:Q:286:SER:HB2	1.54	0.89
1:A:253:HIS:HE1	1:B:172:PHE:HB2	1.35	0.89
1:D:342:ILE:HD13	1:D:609:TYR:CE2	2.08	0.89
1:E:222:SER:HB2	1:L:230:LYS:HG2	1.54	0.89
1:F:439:THR:HG23	1:F:457:ILE:CD1	2.02	0.89
1:F:464:LYS:HA	1:F:533:THR:HG21	1.52	0.89
1:L:605:SER:HB3	1:L:650:ILE:HG23	1.55	0.89
1:O:464:LYS:HA	1:O:533:THR:HG21	1.53	0.89
1:B:230:LYS:HG2	1:Q:222:SER:HB2	1.54	0.89
1:C:172:PHE:HB2	1:S:253:HIS:HE1	1.35	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:464:LYS:HA	1:C:533:THR:HG21	1.53	0.89
1:I:236:VAL:HG23	1:I:286:SER:HB2	1.55	0.89
1:J:172:PHE:HB2	1:P:253:HIS:HE1	1.35	0.89
1:J:222:SER:HB2	1:P:230:LYS:HG2	1.54	0.89
1:N:342:ILE:HD13	1:N:609:TYR:CE2	2.08	0.89
1:O:236:VAL:HG23	1:O:286:SER:HB2	1.55	0.89
1:P:439:THR:HG23	1:P:457:ILE:CD1	2.02	0.89
1:P:605:SER:HB3	1:P:650:ILE:HG23	1.55	0.89
1:R:464:LYS:HA	1:R:533:THR:HG21	1.53	0.89
1:T:219:PHE:HB3	1:T:312:VAL:HA	1.51	0.89
1:A:222:SER:HB2	1:J:230:LYS:HG2	1.54	0.89
1:C:342:ILE:HD13	1:C:609:TYR:CE2	2.08	0.89
1:F:259:ARG:HA	1:K:259:ARG:HH12	1.37	0.89
1:F:326:LYS:HG3	1:R:237:PRO:HG3	1.54	0.89
1:K:342:ILE:HD13	1:K:609:TYR:CE2	2.08	0.89
1:M:190:LYS:CB	1:M:652:LEU:CD1	2.49	0.89
1:R:190:LYS:CB	1:R:652:LEU:CD1	2.49	0.89
1:S:236:VAL:HG23	1:S:286:SER:HB2	1.54	0.89
1:C:222:SER:HB2	1:S:230:LYS:HG2	1.54	0.89
1:C:605:SER:HB3	1:C:650:ILE:HG23	1.54	0.89
1:D:416:ILE:HD12	1:D:416:ILE:H	1.38	0.89
1:I:416:ILE:H	1:I:416:ILE:HD12	1.38	0.89
1:K:190:LYS:CB	1:K:652:LEU:CD1	2.49	0.89
1:L:416:ILE:HD12	1:L:416:ILE:H	1.38	0.89
1:M:230:LYS:HG2	1:R:222:SER:HB2	1.54	0.89
1:R:439:THR:HG23	1:R:457:ILE:HD11	1.53	0.89
1:S:439:THR:HG23	1:S:457:ILE:CD1	2.02	0.89
1:T:342:ILE:HD13	1:T:609:TYR:CE2	2.08	0.89
1:A:342:ILE:HD13	1:A:609:TYR:CE2	2.08	0.89
1:A:439:THR:HG23	1:A:457:ILE:CD1	2.02	0.89
1:C:259:ARG:HA	1:S:259:ARG:HH12	1.37	0.89
1:D:230:LYS:HG2	1:S:222:SER:HB2	1.54	0.89
1:D:605:SER:HB3	1:D:650:ILE:HG23	1.55	0.89
1:I:605:SER:HB3	1:I:650:ILE:HG23	1.55	0.89
1:K:237:PRO:HG3	1:N:326:LYS:HG3	1.54	0.89
1:L:222:SER:HB2	1:T:230:LYS:HG2	1.54	0.89
1:P:236:VAL:HG23	1:P:286:SER:HB2	1.54	0.89
1:P:342:ILE:HD13	1:P:609:TYR:CE2	2.08	0.89
1:A:287:LEU:HD12	1:A:288:VAL:H	1.38	0.88
1:H:259:ARG:HA	1:O:259:ARG:HH12	1.37	0.88
1:I:190:LYS:CB	1:I:652:LEU:CD1	2.49	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:236:VAL:HG23	1:M:286:SER:HB2	1.55	0.88
1:Q:439:THR:HG23	1:Q:457:ILE:CD1	2.02	0.88
1:T:439:THR:HG23	1:T:457:ILE:HD11	1.53	0.88
1:T:464:LYS:HA	1:T:533:THR:HG21	1.53	0.88
1:D:237:PRO:CD	1:L:327:PRO:HG3	1.98	0.88
1:H:342:ILE:HD13	1:H:609:TYR:CE2	2.08	0.88
1:M:342:ILE:HD13	1:M:609:TYR:CE2	2.08	0.88
1:N:439:THR:HG23	1:N:457:ILE:HD11	1.53	0.88
1:O:342:ILE:HD13	1:O:609:TYR:CE2	2.08	0.88
1:Q:342:ILE:HD13	1:Q:609:TYR:CE2	2.08	0.88
1:E:605:SER:HB3	1:E:650:ILE:HG23	1.55	0.88
1:G:190:LYS:CB	1:G:652:LEU:CD1	2.49	0.88
1:L:342:ILE:HD13	1:L:609:TYR:CE2	2.08	0.88
1:L:439:THR:HG23	1:L:457:ILE:HD11	1.53	0.88
1:A:259:ARG:HA	1:J:259:ARG:HH12	1.37	0.88
1:D:237:PRO:HG3	1:L:326:LYS:HG3	1.54	0.88
1:F:439:THR:HG23	1:F:457:ILE:HD11	1.53	0.88
1:T:416:ILE:H	1:T:416:ILE:HD12	1.39	0.88
1:D:259:ARG:HA	1:F:259:ARG:HH12	1.37	0.88
1:I:342:ILE:HD13	1:I:609:TYR:CE2	2.08	0.88
1:M:237:PRO:HG3	1:Q:326:LYS:HG3	1.54	0.88
1:O:416:ILE:HD12	1:O:416:ILE:H	1.38	0.88
1:Q:416:ILE:H	1:Q:416:ILE:HD12	1.38	0.88
1:S:416:ILE:HD12	1:S:416:ILE:H	1.39	0.88
1:A:439:THR:HG23	1:A:457:ILE:HD11	1.53	0.88
1:J:190:LYS:CB	1:J:652:LEU:CD1	2.49	0.88
1:J:342:ILE:HD13	1:J:609:TYR:CE2	2.08	0.88
1:K:236:VAL:HG23	1:K:286:SER:HB2	1.55	0.88
1:M:259:ARG:HH12	1:R:259:ARG:HA	1.37	0.88
1:P:222:SER:HB2	1:Q:230:LYS:HG2	1.54	0.88
1:P:416:ILE:H	1:P:416:ILE:HD12	1.38	0.88
1:T:236:VAL:HG23	1:T:286:SER:HB2	1.54	0.88
1:C:230:LYS:HG2	1:K:222:SER:HB2	1.54	0.88
1:D:190:LYS:CB	1:D:652:LEU:CD1	2.49	0.88
1:G:605:SER:HB3	1:G:650:ILE:HG23	1.55	0.88
1:H:287:LEU:HD12	1:H:288:VAL:H	1.38	0.88
1:L:259:ARG:HA	1:T:259:ARG:HH12	1.37	0.88
1:S:342:ILE:HD13	1:S:609:TYR:CE2	2.08	0.88
1:A:190:LYS:CB	1:A:652:LEU:CD1	2.50	0.88
1:C:236:VAL:HG23	1:C:286:SER:HB2	1.55	0.88
1:C:259:ARG:HH12	1:K:259:ARG:HA	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:287:LEU:HD12	1:G:288:VAL:H	1.38	0.88
1:J:259:ARG:HA	1:P:259:ARG:HH12	1.37	0.88
1:M:605:SER:HB3	1:M:650:ILE:HG23	1.55	0.88
1:G:416:ILE:H	1:G:416:ILE:HD12	1.38	0.88
1:N:190:LYS:CB	1:N:652:LEU:CD1	2.49	0.88
1:N:416:ILE:H	1:N:416:ILE:HD12	1.38	0.88
1:O:190:LYS:CB	1:O:652:LEU:CD1	2.49	0.88
1:R:342:ILE:HD13	1:R:609:TYR:CE2	2.08	0.88
1:H:439:THR:HG23	1:H:457:ILE:HD11	1.53	0.88
1:N:236:VAL:HG23	1:N:286:SER:HB2	1.55	0.88
1:G:342:ILE:HD13	1:G:609:TYR:CE2	2.08	0.87
1:I:253:HIS:HE1	1:M:172:PHE:HB2	1.35	0.87
1:L:287:LEU:HD12	1:L:288:VAL:H	1.38	0.87
1:L:387:ARG:HH22	1:S:348:LEU:HD23	1.31	0.87
1:O:439:THR:HG23	1:O:457:ILE:HD11	1.53	0.87
1:A:237:PRO:HG3	1:D:326:LYS:HG3	1.54	0.87
1:B:605:SER:HB3	1:B:650:ILE:HG23	1.55	0.87
1:C:427:SER:HG	1:C:429:LEU:HD21	1.33	0.87
1:E:342:ILE:HD13	1:E:609:TYR:CE2	2.08	0.87
1:F:342:ILE:HD13	1:F:609:TYR:CE2	2.08	0.87
1:I:451:TYR:CA	1:I:458:VAL:CG2	2.36	0.87
1:R:416:ILE:H	1:R:416:ILE:HD12	1.39	0.87
1:B:236:VAL:HG23	1:B:286:SER:HB2	1.54	0.87
1:C:190:LYS:CB	1:C:652:LEU:CD1	2.49	0.87
1:L:236:VAL:HG23	1:L:286:SER:HB2	1.55	0.87
1:N:605:SER:HB3	1:N:650:ILE:HG23	1.55	0.87
1:R:605:SER:HB3	1:R:650:ILE:HG23	1.55	0.87
1:B:342:ILE:HD13	1:B:609:TYR:CE2	2.08	0.87
1:B:416:ILE:H	1:B:416:ILE:HD12	1.39	0.87
1:K:437:VAL:HG11	1:K:439:THR:HG22	1.57	0.87
1:R:451:TYR:N	1:R:458:VAL:HG21	1.80	0.87
1:N:226:VAL:CG2	1:R:226:VAL:HG13	2.05	0.87
1:E:416:ILE:H	1:E:416:ILE:HD12	1.39	0.87
1:G:226:VAL:CG2	1:N:226:VAL:HG13	2.05	0.87
1:J:605:SER:HB3	1:J:650:ILE:HG23	1.54	0.87
1:C:287:LEU:HD12	1:C:288:VAL:H	1.38	0.87
1:H:190:LYS:CB	1:H:652:LEU:CD1	2.49	0.87
1:H:226:VAL:HG13	1:T:226:VAL:CG2	2.05	0.87
1:I:226:VAL:HG13	1:M:226:VAL:CG2	2.05	0.87
1:J:236:VAL:HG23	1:J:286:SER:HB2	1.55	0.87
1:N:259:ARG:HA	1:R:259:ARG:HH12	1.37	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:605:SER:HB3	1:F:650:ILE:HG23	1.55	0.87
1:G:427:SER:HG	1:G:429:LEU:HD21	1.37	0.87
1:P:437:VAL:HG11	1:P:439:THR:HG22	1.57	0.87
1:S:437:VAL:HG11	1:S:439:THR:HG22	1.57	0.87
1:D:236:VAL:HG23	1:D:286:SER:HB2	1.55	0.87
1:F:503:ILE:HG23	1:F:550:ILE:HD12	1.57	0.87
1:H:218:ARG:HB2	1:H:265:VAL:HG22	1.57	0.87
1:H:236:VAL:HG23	1:H:286:SER:HB2	1.54	0.87
1:M:287:LEU:HD12	1:M:288:VAL:H	1.38	0.87
1:Q:221:ILE:HG22	1:Q:310:VAL:HG22	1.57	0.87
1:A:230:LYS:HG2	1:B:222:SER:HB2	1.54	0.86
1:A:437:VAL:HG11	1:A:439:THR:HG22	1.57	0.86
1:C:437:VAL:HG11	1:C:439:THR:HG22	1.57	0.86
1:F:416:ILE:H	1:F:416:ILE:HD12	1.39	0.86
1:H:416:ILE:HD12	1:H:416:ILE:H	1.38	0.86
1:H:605:SER:HB3	1:H:650:ILE:HG23	1.55	0.86
1:S:605:SER:HB3	1:S:650:ILE:HG23	1.54	0.86
1:B:287:LEU:HD12	1:B:288:VAL:H	1.38	0.86
1:C:416:ILE:H	1:C:416:ILE:HD12	1.39	0.86
1:D:275:LEU:HA	1:L:275:LEU:HD11	1.16	0.86
1:I:503:ILE:HG23	1:I:550:ILE:HD12	1.57	0.86
1:M:416:ILE:H	1:M:416:ILE:HD12	1.39	0.86
1:Q:503:ILE:HG23	1:Q:550:ILE:HD12	1.57	0.86
1:B:237:PRO:HG3	1:R:326:LYS:HG3	1.54	0.86
1:B:387:ARG:HH22	1:D:348:LEU:HD23	1.31	0.86
1:L:226:VAL:CG2	1:T:226:VAL:HG13	2.05	0.86
1:N:437:VAL:HG11	1:N:439:THR:HG22	1.57	0.86
1:O:221:ILE:HG22	1:O:310:VAL:HG22	1.58	0.86
1:P:503:ILE:HG23	1:P:550:ILE:HD12	1.57	0.86
1:T:503:ILE:HG23	1:T:550:ILE:HD12	1.57	0.86
1:C:218:ARG:HB2	1:C:265:VAL:HG22	1.57	0.86
1:D:222:SER:HB2	1:F:230:LYS:HG2	1.54	0.86
1:E:236:VAL:HG23	1:E:286:SER:HB2	1.54	0.86
1:M:451:TYR:N	1:M:458:VAL:HG21	1.80	0.86
1:B:218:ARG:HB2	1:B:265:VAL:HG22	1.58	0.86
1:B:226:VAL:HG13	1:Q:226:VAL:CG2	2.05	0.86
1:D:218:ARG:HB2	1:D:265:VAL:HG22	1.58	0.86
1:D:437:VAL:HG11	1:D:439:THR:HG22	1.57	0.86
1:H:437:VAL:HG11	1:H:439:THR:HG22	1.57	0.86
1:J:218:ARG:HB2	1:J:265:VAL:HG22	1.58	0.86
1:L:437:VAL:HG11	1:L:439:THR:HG22	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:218:ARG:HB2	1:O:265:VAL:HG22	1.57	0.86
1:A:387:ARG:HH12	1:E:348:LEU:HD23	1.41	0.86
1:H:226:VAL:CG2	1:O:226:VAL:HG13	2.05	0.86
1:J:221:ILE:HG22	1:J:310:VAL:HG22	1.57	0.86
1:Q:190:LYS:CB	1:Q:652:LEU:CD1	2.49	0.86
1:A:226:VAL:CG2	1:J:226:VAL:HG13	2.05	0.86
1:B:503:ILE:HG23	1:B:550:ILE:HD12	1.57	0.86
1:H:503:ILE:HG23	1:H:550:ILE:HD12	1.57	0.86
1:J:503:ILE:HG23	1:J:550:ILE:HD12	1.57	0.86
1:M:437:VAL:HG11	1:M:439:THR:HG22	1.57	0.86
1:S:275:LEU:HD11	1:T:275:LEU:HA	1.17	0.86
1:T:218:ARG:HB2	1:T:265:VAL:HG22	1.57	0.86
1:C:226:VAL:HG13	1:K:226:VAL:CG2	2.05	0.86
1:F:226:VAL:CG2	1:K:226:VAL:HG13	2.05	0.86
1:G:218:ARG:HB2	1:G:265:VAL:HG22	1.57	0.86
1:J:226:VAL:CG2	1:P:226:VAL:HG13	2.05	0.86
1:K:218:ARG:HB2	1:K:265:VAL:HG22	1.58	0.86
1:B:237:PRO:CD	1:R:327:PRO:HG3	1.98	0.86
1:F:287:LEU:HD12	1:F:288:VAL:H	1.38	0.86
1:G:437:VAL:HG11	1:G:439:THR:HG22	1.57	0.86
1:J:437:VAL:HG11	1:J:439:THR:HG22	1.57	0.86
1:Q:437:VAL:HG11	1:Q:439:THR:HG22	1.57	0.86
1:D:226:VAL:CG2	1:F:226:VAL:HG13	2.05	0.86
1:K:416:ILE:H	1:K:416:ILE:HD12	1.38	0.86
1:K:605:SER:HB3	1:K:650:ILE:HG23	1.54	0.86
1:B:221:ILE:HG22	1:B:310:VAL:HG22	1.57	0.85
1:E:631:VAL:HG12	1:E:633:VAL:H	1.41	0.85
1:I:631:VAL:HG12	1:I:633:VAL:H	1.41	0.85
1:L:503:ILE:HG23	1:L:550:ILE:HD12	1.57	0.85
1:M:218:ARG:HB2	1:M:265:VAL:HG22	1.57	0.85
1:P:287:LEU:HD12	1:P:288:VAL:H	1.38	0.85
1:A:416:ILE:H	1:A:416:ILE:HD12	1.38	0.85
1:F:221:ILE:HG22	1:F:310:VAL:HG22	1.57	0.85
1:G:226:VAL:HG13	1:I:226:VAL:CG2	2.05	0.85
1:I:437:VAL:HG11	1:I:439:THR:HG22	1.57	0.85
1:J:416:ILE:H	1:J:416:ILE:HD12	1.39	0.85
1:P:631:VAL:HG12	1:P:633:VAL:H	1.41	0.85
1:T:221:ILE:HG22	1:T:310:VAL:HG22	1.58	0.85
1:E:218:ARG:HB2	1:E:265:VAL:HG22	1.58	0.85
1:E:221:ILE:HG22	1:E:310:VAL:HG22	1.57	0.85
1:R:218:ARG:HB2	1:R:265:VAL:HG22	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:275:LEU:HD11	1:F:275:LEU:HA	1.17	0.85
1:D:451:TYR:N	1:D:458:VAL:HG21	1.80	0.85
1:E:503:ILE:HG23	1:E:550:ILE:HD12	1.57	0.85
1:N:218:ARG:HB2	1:N:265:VAL:HG22	1.57	0.85
1:T:190:LYS:CB	1:T:652:LEU:HD13	1.77	0.85
1:T:437:VAL:HG11	1:T:439:THR:HG22	1.57	0.85
1:A:327:PRO:HG3	1:L:237:PRO:CD	1.98	0.85
1:B:387:ARG:HH12	1:D:348:LEU:HD23	1.41	0.85
1:B:631:VAL:HG12	1:B:633:VAL:H	1.41	0.85
1:C:226:VAL:CG2	1:S:226:VAL:HG13	2.05	0.85
1:D:503:ILE:HG23	1:D:550:ILE:HD12	1.57	0.85
1:F:327:PRO:HG3	1:R:237:PRO:CD	1.98	0.85
1:K:287:LEU:HD12	1:K:288:VAL:H	1.39	0.85
1:Q:287:LEU:HD12	1:Q:288:VAL:H	1.38	0.85
1:A:226:VAL:HG13	1:B:226:VAL:CG2	2.05	0.85
1:A:387:ARG:HH22	1:E:348:LEU:HD23	1.31	0.85
1:C:631:VAL:HG12	1:C:633:VAL:H	1.41	0.85
1:E:226:VAL:CG2	1:L:226:VAL:HG13	2.05	0.85
1:G:221:ILE:HG22	1:G:310:VAL:HG22	1.58	0.85
1:O:605:SER:HB3	1:O:650:ILE:HG23	1.55	0.85
1:Q:387:ARG:HH12	1:R:348:LEU:HD23	1.41	0.85
1:Q:575:TYR:CA	1:R:480:LYS:HZ1	1.81	0.85
1:R:437:VAL:HG11	1:R:439:THR:HG22	1.57	0.85
1:L:218:ARG:HB2	1:L:265:VAL:HG22	1.58	0.85
1:N:631:VAL:HG12	1:N:633:VAL:H	1.41	0.85
1:P:226:VAL:CG2	1:Q:226:VAL:HG13	2.05	0.85
1:Q:631:VAL:HG12	1:Q:633:VAL:H	1.41	0.85
1:S:218:ARG:HB2	1:S:265:VAL:HG22	1.57	0.85
1:B:271:LEU:HD22	1:R:324:LEU:CD2	2.07	0.85
1:B:324:LEU:CD2	1:F:271:LEU:HD22	2.07	0.85
1:E:226:VAL:HG13	1:O:226:VAL:CG2	2.05	0.85
1:H:631:VAL:HG12	1:H:633:VAL:H	1.41	0.85
1:I:427:SER:HG	1:I:429:LEU:HD21	1.36	0.85
1:N:218:ARG:CB	1:N:265:VAL:HG22	2.07	0.85
1:P:218:ARG:HB2	1:P:265:VAL:HG22	1.58	0.85
1:B:437:VAL:HG11	1:B:439:THR:HG22	1.57	0.85
1:E:324:LEU:CD2	1:J:271:LEU:HD22	2.07	0.85
1:I:221:ILE:HG22	1:I:310:VAL:HG22	1.58	0.85
1:M:503:ILE:HG23	1:M:550:ILE:HD12	1.57	0.85
1:A:503:ILE:HG23	1:A:550:ILE:HD12	1.57	0.85
1:A:631:VAL:HG12	1:A:633:VAL:H	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:287:LEU:HD12	1:D:288:VAL:H	1.39	0.85
1:E:437:VAL:HG11	1:E:439:THR:HG22	1.57	0.85
1:I:287:LEU:HD12	1:I:288:VAL:H	1.38	0.85
1:Q:348:LEU:HD23	1:R:387:ARG:HH12	1.41	0.85
1:F:218:ARG:CB	1:F:265:VAL:HG22	2.07	0.84
1:H:218:ARG:CB	1:H:265:VAL:HG22	2.07	0.84
1:O:218:ARG:CB	1:O:265:VAL:HG22	2.07	0.84
1:O:437:VAL:HG11	1:O:439:THR:HG22	1.57	0.84
1:O:631:VAL:HG12	1:O:633:VAL:H	1.41	0.84
1:R:218:ARG:CB	1:R:265:VAL:HG22	2.07	0.84
1:S:221:ILE:HG22	1:S:310:VAL:HG22	1.57	0.84
1:C:218:ARG:CB	1:C:265:VAL:HG22	2.07	0.84
1:D:631:VAL:HG12	1:D:633:VAL:H	1.41	0.84
1:G:503:ILE:HG23	1:G:550:ILE:HD12	1.57	0.84
1:K:218:ARG:CB	1:K:265:VAL:HG22	2.07	0.84
1:K:221:ILE:HG22	1:K:310:VAL:HG22	1.58	0.84
1:L:221:ILE:HG22	1:L:310:VAL:HG22	1.57	0.84
1:L:631:VAL:HG12	1:L:633:VAL:H	1.41	0.84
1:M:226:VAL:HG13	1:R:226:VAL:CG2	2.05	0.84
1:R:221:ILE:HG22	1:R:310:VAL:HG22	1.58	0.84
1:G:218:ARG:CB	1:G:265:VAL:HG22	2.07	0.84
1:M:271:LEU:HD22	1:Q:324:LEU:CD2	2.07	0.84
1:P:218:ARG:CB	1:P:265:VAL:HG22	2.07	0.84
1:T:287:LEU:HD12	1:T:288:VAL:H	1.39	0.84
1:A:218:ARG:CB	1:A:265:VAL:HG22	2.07	0.84
1:A:271:LEU:HD22	1:D:324:LEU:CD2	2.07	0.84
1:D:218:ARG:CB	1:D:265:VAL:HG22	2.07	0.84
1:D:271:LEU:HB3	1:L:324:LEU:HD22	1.60	0.84
1:N:287:LEU:HD12	1:N:288:VAL:H	1.38	0.84
1:D:221:ILE:HG22	1:D:310:VAL:HG22	1.58	0.84
1:D:226:VAL:HG13	1:S:226:VAL:CG2	2.05	0.84
1:F:437:VAL:HG11	1:F:439:THR:HG22	1.57	0.84
1:S:218:ARG:CB	1:S:265:VAL:HG22	2.07	0.84
1:S:503:ILE:HG23	1:S:550:ILE:HD12	1.57	0.84
1:H:221:ILE:HG22	1:H:310:VAL:HG22	1.58	0.84
1:Q:218:ARG:CB	1:Q:265:VAL:HG22	2.07	0.84
1:S:324:LEU:CD2	1:T:271:LEU:HD22	2.07	0.84
1:E:324:LEU:HD22	1:J:271:LEU:HB3	1.60	0.84
1:F:218:ARG:HB2	1:F:265:VAL:HG22	1.57	0.84
1:G:631:VAL:HG12	1:G:633:VAL:H	1.41	0.84
1:J:631:VAL:HG12	1:J:633:VAL:H	1.41	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:271:LEU:HB3	1:N:324:LEU:HD22	1.60	0.84
1:K:271:LEU:HD22	1:N:324:LEU:CD2	2.07	0.84
1:K:451:TYR:HA	1:K:458:VAL:HG23	0.84	0.84
1:L:387:ARG:HH12	1:S:348:LEU:HD23	1.41	0.84
1:M:221:ILE:HG22	1:M:310:VAL:HG22	1.57	0.84
1:M:427:SER:HG	1:M:429:LEU:HD21	1.42	0.84
1:N:503:ILE:HG23	1:N:550:ILE:HD12	1.57	0.84
1:Q:218:ARG:HB2	1:Q:265:VAL:HG22	1.57	0.84
1:R:503:ILE:HG23	1:R:550:ILE:HD12	1.57	0.84
1:B:327:PRO:HG3	1:F:237:PRO:CD	1.98	0.84
1:C:503:ILE:HG23	1:C:550:ILE:HD12	1.57	0.84
1:D:451:TYR:HA	1:D:458:VAL:HG23	0.84	0.84
1:F:324:LEU:HD22	1:R:271:LEU:HB3	1.60	0.84
1:H:451:TYR:CA	1:H:458:VAL:CG2	2.36	0.84
1:K:451:TYR:HD1	1:K:457:ILE:CA	1.91	0.84
1:L:218:ARG:CB	1:L:265:VAL:HG22	2.07	0.84
1:M:237:PRO:CD	1:Q:327:PRO:HG3	1.98	0.84
1:N:221:ILE:HG22	1:N:310:VAL:HG22	1.58	0.84
1:N:451:TYR:HA	1:N:458:VAL:HG23	0.84	0.84
1:O:503:ILE:HG23	1:O:550:ILE:HD12	1.57	0.84
1:Q:451:TYR:CA	1:Q:458:VAL:CG2	2.36	0.84
1:D:271:LEU:HD22	1:L:324:LEU:CD2	2.07	0.84
1:E:327:PRO:HG3	1:J:237:PRO:CD	1.98	0.84
1:F:324:LEU:CD2	1:R:271:LEU:HD22	2.07	0.84
1:F:480:LYS:HZ1	1:N:575:TYR:CA	1.83	0.84
1:H:451:TYR:HA	1:H:458:VAL:HG23	0.84	0.84
1:I:218:ARG:CB	1:I:265:VAL:HG22	2.07	0.84
1:I:451:TYR:HA	1:I:458:VAL:HG23	0.84	0.84
1:L:348:LEU:HD23	1:S:387:ARG:HH12	1.41	0.84
1:A:324:LEU:CD2	1:L:271:LEU:HD22	2.07	0.83
1:B:218:ARG:CB	1:B:265:VAL:HG22	2.07	0.83
1:B:451:TYR:HD1	1:B:457:ILE:CA	1.91	0.83
1:D:451:TYR:HD1	1:D:457:ILE:CA	1.91	0.83
1:E:287:LEU:HD12	1:E:288:VAL:H	1.38	0.83
1:F:451:TYR:HA	1:F:458:VAL:HG23	0.84	0.83
1:J:218:ARG:CB	1:J:265:VAL:HG22	2.07	0.83
1:M:271:LEU:HB3	1:Q:324:LEU:HD22	1.60	0.83
1:O:451:TYR:HD1	1:O:457:ILE:CA	1.91	0.83
1:P:221:ILE:HG22	1:P:310:VAL:HG22	1.58	0.83
1:R:631:VAL:HG12	1:R:633:VAL:H	1.41	0.83
1:A:324:LEU:HD22	1:L:271:LEU:HB3	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:451:TYR:HD1	1:J:457:ILE:CA	1.91	0.83
1:K:237:PRO:CD	1:N:327:PRO:HG3	1.99	0.83
1:L:451:TYR:HA	1:L:458:VAL:HG23	0.84	0.83
1:M:218:ARG:CB	1:M:265:VAL:HG22	2.07	0.83
1:M:451:TYR:HA	1:M:458:VAL:HG23	0.84	0.83
1:T:218:ARG:CB	1:T:265:VAL:HG22	2.07	0.83
1:T:605:SER:HB3	1:T:650:ILE:HG23	1.55	0.83
1:A:221:ILE:HG22	1:A:310:VAL:HG22	1.57	0.83
1:F:451:TYR:N	1:F:458:VAL:HG21	1.80	0.83
1:S:287:LEU:HD12	1:S:288:VAL:H	1.39	0.83
1:A:218:ARG:HB2	1:A:265:VAL:HG22	1.58	0.83
1:C:471:ALA:HB2	1:C:527:LEU:HB3	1.61	0.83
1:E:218:ARG:CB	1:E:265:VAL:HG22	2.07	0.83
1:J:287:LEU:HD12	1:J:288:VAL:H	1.38	0.83
1:J:471:ALA:HB2	1:J:527:LEU:HB3	1.60	0.83
1:K:631:VAL:HG12	1:K:633:VAL:H	1.41	0.83
1:O:280:SER:HG	1:O:334:HIS:CD2	1.96	0.83
1:O:471:ALA:HB2	1:O:527:LEU:HB3	1.61	0.83
1:S:525:VAL:HG12	1:S:526:THR:OG1	1.79	0.83
1:T:451:TYR:HA	1:T:458:VAL:HG23	0.84	0.83
1:T:451:TYR:HD1	1:T:457:ILE:CA	1.91	0.83
1:C:451:TYR:HD1	1:C:457:ILE:CA	1.91	0.83
1:E:471:ALA:HB2	1:E:527:LEU:HB3	1.61	0.83
1:O:525:VAL:HG12	1:O:526:THR:OG1	1.79	0.83
1:S:451:TYR:HA	1:S:458:VAL:HG23	0.84	0.83
1:S:631:VAL:HG12	1:S:633:VAL:H	1.41	0.83
1:A:451:TYR:HA	1:A:458:VAL:HG23	0.84	0.83
1:F:631:VAL:HG12	1:F:633:VAL:H	1.41	0.83
1:I:471:ALA:HB2	1:I:527:LEU:HB3	1.61	0.83
1:R:287:LEU:HD12	1:R:288:VAL:H	1.38	0.83
1:D:471:ALA:HB2	1:D:527:LEU:HB3	1.61	0.83
1:F:525:VAL:HG12	1:F:526:THR:OG1	1.79	0.83
1:K:503:ILE:HG23	1:K:550:ILE:HD12	1.57	0.83
1:N:440:SER:HB2	1:N:443:THR:OG1	1.79	0.83
1:Q:471:ALA:HB2	1:Q:527:LEU:HB3	1.61	0.83
1:T:440:SER:HB2	1:T:443:THR:OG1	1.79	0.83
1:C:221:ILE:HG22	1:C:310:VAL:HG22	1.58	0.83
1:D:525:VAL:HG12	1:D:526:THR:OG1	1.79	0.83
1:G:440:SER:HB2	1:G:443:THR:OG1	1.79	0.83
1:L:440:SER:HB2	1:L:443:THR:OG1	1.79	0.83
1:M:471:ALA:HB2	1:M:527:LEU:HB3	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:416:ILE:HG12	1:P:503:ILE:HD12	1.61	0.83
1:R:416:ILE:HG12	1:R:503:ILE:HD12	1.61	0.83
1:A:451:TYR:HD1	1:A:457:ILE:CA	1.91	0.83
1:E:280:SER:HG	1:E:334:HIS:CD2	1.95	0.83
1:N:451:TYR:HD1	1:N:457:ILE:CA	1.91	0.83
1:N:471:ALA:HB2	1:N:527:LEU:HB3	1.61	0.83
1:Q:451:TYR:HA	1:Q:458:VAL:HG23	0.84	0.83
1:A:440:SER:HB2	1:A:443:THR:OG1	1.79	0.83
1:A:451:TYR:N	1:A:458:VAL:HG21	1.80	0.83
1:B:416:ILE:HG12	1:B:503:ILE:HD12	1.61	0.83
1:D:440:SER:HB2	1:D:443:THR:OG1	1.79	0.83
1:H:451:TYR:HD1	1:H:457:ILE:CA	1.91	0.83
1:I:218:ARG:HB2	1:I:265:VAL:HG22	1.58	0.83
1:M:525:VAL:HG12	1:M:526:THR:OG1	1.79	0.83
1:M:631:VAL:HG12	1:M:633:VAL:H	1.41	0.83
1:N:525:VAL:HG12	1:N:526:THR:OG1	1.79	0.83
1:Q:451:TYR:HD1	1:Q:457:ILE:CA	1.91	0.83
1:T:451:TYR:N	1:T:458:VAL:HG21	1.80	0.83
1:T:471:ALA:HB2	1:T:527:LEU:HB3	1.61	0.83
1:D:572:LYS:HD2	1:D:572:LYS:H	1.45	0.82
1:F:451:TYR:HD1	1:F:457:ILE:CA	1.91	0.82
1:G:451:TYR:HD1	1:G:457:ILE:CA	1.91	0.82
1:H:451:TYR:N	1:H:458:VAL:HG21	1.80	0.82
1:L:525:VAL:HG12	1:L:526:THR:OG1	1.79	0.82
1:N:572:LYS:HD2	1:N:572:LYS:H	1.44	0.82
1:O:287:LEU:HD12	1:O:288:VAL:H	1.38	0.82
1:O:451:TYR:N	1:O:458:VAL:HG21	1.80	0.82
1:Q:525:VAL:HG12	1:Q:526:THR:OG1	1.79	0.82
1:R:572:LYS:HD2	1:R:572:LYS:H	1.44	0.82
1:T:631:VAL:HG12	1:T:633:VAL:H	1.41	0.82
1:A:237:PRO:CD	1:D:327:PRO:HG3	1.98	0.82
1:A:525:VAL:HG12	1:A:526:THR:OG1	1.79	0.82
1:E:416:ILE:HG12	1:E:503:ILE:HD12	1.61	0.82
1:G:572:LYS:HD2	1:G:572:LYS:H	1.45	0.82
1:I:437:VAL:CG1	1:I:439:THR:N	2.38	0.82
1:B:348:LEU:CD2	1:D:387:ARG:NH2	2.41	0.82
1:C:451:TYR:HA	1:C:458:VAL:HG23	0.84	0.82
1:G:471:ALA:HB2	1:G:527:LEU:HB3	1.61	0.82
1:H:219:PHE:HB2	1:H:311:THR:O	1.80	0.82
1:J:451:TYR:HA	1:J:458:VAL:HG23	0.84	0.82
1:J:525:VAL:HG12	1:J:526:THR:OG1	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:451:TYR:HD1	1:M:457:ILE:CA	1.91	0.82
1:Q:451:TYR:N	1:Q:458:VAL:HG21	1.80	0.82
1:R:525:VAL:HG12	1:R:526:THR:OG1	1.79	0.82
1:S:416:ILE:HG12	1:S:503:ILE:HD12	1.61	0.82
1:D:219:PHE:HB2	1:D:311:THR:O	1.80	0.82
1:E:437:VAL:CG1	1:E:439:THR:N	2.38	0.82
1:E:451:TYR:N	1:E:458:VAL:HG21	1.80	0.82
1:E:451:TYR:HD1	1:E:457:ILE:CA	1.91	0.82
1:F:572:LYS:H	1:F:572:LYS:HD2	1.45	0.82
1:I:525:VAL:HG12	1:I:526:THR:OG1	1.79	0.82
1:K:471:ALA:HB2	1:K:527:LEU:HB3	1.61	0.82
1:L:219:PHE:HB2	1:L:311:THR:O	1.80	0.82
1:M:402:LYS:HZ2	1:M:511:PHE:HE2	1.26	0.82
1:O:572:LYS:HD2	1:O:572:LYS:H	1.45	0.82
1:S:327:PRO:HG3	1:T:237:PRO:CD	1.99	0.82
1:S:451:TYR:HD1	1:S:457:ILE:CA	1.91	0.82
1:A:427:SER:HG	1:A:429:LEU:HD21	1.41	0.82
1:C:572:LYS:HD2	1:C:572:LYS:H	1.45	0.82
1:E:440:SER:HB2	1:E:443:THR:OG1	1.79	0.82
1:F:471:ALA:HB2	1:F:527:LEU:HB3	1.61	0.82
1:H:525:VAL:HG12	1:H:526:THR:OG1	1.79	0.82
1:K:271:LEU:CB	1:N:324:LEU:CD2	2.57	0.82
1:P:451:TYR:HD1	1:P:457:ILE:CA	1.91	0.82
1:P:471:ALA:HB2	1:P:527:LEU:HB3	1.61	0.82
1:Q:219:PHE:HB2	1:Q:311:THR:O	1.80	0.82
1:B:440:SER:HB2	1:B:443:THR:OG1	1.79	0.82
1:H:572:LYS:HD2	1:H:572:LYS:H	1.45	0.82
1:I:572:LYS:H	1:I:572:LYS:HD2	1.45	0.82
1:J:416:ILE:HG12	1:J:503:ILE:HD12	1.61	0.82
1:K:440:SER:HB2	1:K:443:THR:OG1	1.79	0.82
1:R:451:TYR:HA	1:R:458:VAL:HG23	0.84	0.82
1:E:324:LEU:CD2	1:J:271:LEU:CB	2.57	0.82
1:F:402:LYS:NZ	1:F:511:PHE:CE2	2.24	0.82
1:G:525:VAL:HG12	1:G:526:THR:OG1	1.79	0.82
1:O:451:TYR:HA	1:O:458:VAL:HG23	0.84	0.82
1:P:440:SER:HB2	1:P:443:THR:OG1	1.79	0.82
1:R:451:TYR:HD1	1:R:457:ILE:CA	1.91	0.82
1:S:572:LYS:HD2	1:S:572:LYS:H	1.45	0.82
1:A:416:ILE:HG12	1:A:503:ILE:HD12	1.61	0.82
1:D:271:LEU:CB	1:L:324:LEU:CD2	2.57	0.82
1:E:451:TYR:HA	1:E:458:VAL:HG23	0.84	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:525:VAL:HG12	1:E:526:THR:OG1	1.79	0.82
1:G:424:THR:OG1	1:G:489:THR:HG23	1.80	0.82
1:M:219:PHE:HB2	1:M:311:THR:O	1.80	0.82
1:P:219:PHE:HB2	1:P:311:THR:O	1.80	0.82
1:P:437:VAL:CG1	1:P:439:THR:N	2.38	0.82
1:Q:348:LEU:CD2	1:R:387:ARG:NH2	2.41	0.82
1:S:324:LEU:HD22	1:T:271:LEU:HB3	1.60	0.82
1:A:219:PHE:HB2	1:A:311:THR:O	1.80	0.82
1:G:451:TYR:HA	1:G:458:VAL:HG23	0.84	0.82
1:H:440:SER:HB2	1:H:443:THR:OG1	1.79	0.82
1:I:451:TYR:HD1	1:I:457:ILE:CA	1.91	0.82
1:L:437:VAL:CG1	1:L:439:THR:N	2.38	0.82
1:N:219:PHE:HB2	1:N:311:THR:O	1.80	0.82
1:T:416:ILE:HG12	1:T:503:ILE:HD12	1.61	0.82
1:A:348:LEU:CD2	1:E:387:ARG:NH2	2.41	0.82
1:K:280:SER:HG	1:K:334:HIS:CD2	1.97	0.82
1:P:451:TYR:CA	1:P:458:VAL:CG2	2.36	0.82
1:P:525:VAL:HG12	1:P:526:THR:OG1	1.79	0.82
1:T:572:LYS:HD2	1:T:572:LYS:H	1.44	0.82
1:B:324:LEU:CD2	1:F:271:LEU:CB	2.58	0.81
1:B:348:LEU:HD23	1:D:387:ARG:HH12	1.40	0.81
1:B:451:TYR:CA	1:B:458:VAL:CG2	2.36	0.81
1:C:437:VAL:CG1	1:C:439:THR:N	2.38	0.81
1:F:387:ARG:HH12	1:N:348:LEU:HD23	1.41	0.81
1:H:424:THR:OG1	1:H:489:THR:HG23	1.80	0.81
1:L:416:ILE:HG12	1:L:503:ILE:HD12	1.61	0.81
1:L:424:THR:OG1	1:L:489:THR:HG23	1.80	0.81
1:O:219:PHE:HB2	1:O:311:THR:O	1.80	0.81
1:Q:440:SER:HB2	1:Q:443:THR:OG1	1.79	0.81
1:A:324:LEU:CD2	1:L:271:LEU:CB	2.57	0.81
1:B:280:SER:HG	1:B:334:HIS:CD2	1.96	0.81
1:B:572:LYS:H	1:B:572:LYS:HD2	1.44	0.81
1:E:424:THR:OG1	1:E:489:THR:HG23	1.80	0.81
1:J:221:ILE:HD11	1:J:258:ALA:HA	1.63	0.81
1:K:416:ILE:HG12	1:K:503:ILE:HD12	1.61	0.81
1:L:471:ALA:HB2	1:L:527:LEU:HB3	1.61	0.81
1:M:572:LYS:H	1:M:572:LYS:HD2	1.44	0.81
1:O:440:SER:HB2	1:O:443:THR:OG1	1.79	0.81
1:R:219:PHE:HB2	1:R:311:THR:O	1.80	0.81
1:R:440:SER:HB2	1:R:443:THR:OG1	1.79	0.81
1:B:451:TYR:HA	1:B:458:VAL:HG23	0.84	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:471:ALA:HB2	1:B:527:LEU:HB3	1.60	0.81
1:B:525:VAL:HG12	1:B:526:THR:OG1	1.79	0.81
1:D:416:ILE:HG12	1:D:503:ILE:HD12	1.61	0.81
1:E:572:LYS:H	1:E:572:LYS:HD2	1.45	0.81
1:F:440:SER:HB2	1:F:443:THR:OG1	1.79	0.81
1:I:440:SER:HB2	1:I:443:THR:OG1	1.79	0.81
1:J:572:LYS:HD2	1:J:572:LYS:H	1.44	0.81
1:N:221:ILE:HD11	1:N:258:ALA:HA	1.62	0.81
1:S:324:LEU:CD2	1:T:271:LEU:CB	2.57	0.81
1:S:427:SER:HG	1:S:429:LEU:HD21	1.44	0.81
1:T:280:SER:HG	1:T:334:HIS:CD2	1.97	0.81
1:B:424:THR:OG1	1:B:489:THR:HG23	1.80	0.81
1:C:440:SER:HB2	1:C:443:THR:OG1	1.79	0.81
1:G:416:ILE:HG12	1:G:503:ILE:HD12	1.61	0.81
1:I:219:PHE:HB2	1:I:311:THR:O	1.80	0.81
1:J:424:THR:OG1	1:J:489:THR:HG23	1.80	0.81
1:M:424:THR:OG1	1:M:489:THR:HG23	1.80	0.81
1:P:572:LYS:HD2	1:P:572:LYS:H	1.45	0.81
1:R:471:ALA:HB2	1:R:527:LEU:HB3	1.61	0.81
1:A:348:LEU:HD23	1:E:387:ARG:HH12	1.41	0.81
1:A:471:ALA:HB2	1:A:527:LEU:HB3	1.61	0.81
1:H:471:ALA:HB2	1:H:527:LEU:HB3	1.61	0.81
1:P:221:ILE:HD11	1:P:258:ALA:HA	1.62	0.81
1:Q:572:LYS:H	1:Q:572:LYS:HD2	1.45	0.81
1:R:424:THR:OG1	1:R:489:THR:HG23	1.80	0.81
1:S:219:PHE:HB2	1:S:311:THR:O	1.80	0.81
1:S:608:VAL:HB	1:S:648:MET:HB2	1.63	0.81
1:A:271:LEU:HB3	1:D:324:LEU:HD22	1.60	0.81
1:G:221:ILE:HD11	1:G:258:ALA:HA	1.63	0.81
1:J:440:SER:HB2	1:J:443:THR:OG1	1.79	0.81
1:K:525:VAL:HG12	1:K:526:THR:OG1	1.79	0.81
1:Q:424:THR:OG1	1:Q:489:THR:HG23	1.80	0.81
1:T:525:VAL:HG12	1:T:526:THR:OG1	1.79	0.81
1:C:416:ILE:HG12	1:C:503:ILE:HD12	1.61	0.81
1:C:424:THR:OG1	1:C:489:THR:HG23	1.80	0.81
1:C:525:VAL:HG12	1:C:526:THR:OG1	1.79	0.81
1:F:424:THR:OG1	1:F:489:THR:HG23	1.80	0.81
1:G:219:PHE:HB2	1:G:311:THR:O	1.79	0.81
1:G:280:SER:HG	1:G:334:HIS:CD2	1.97	0.81
1:G:608:VAL:HB	1:G:648:MET:HB2	1.63	0.81
1:K:219:PHE:HB2	1:K:311:THR:O	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:451:TYR:CA	1:L:458:VAL:CG2	2.36	0.81
1:M:221:ILE:HD11	1:M:258:ALA:HA	1.63	0.81
1:M:437:VAL:CG1	1:M:439:THR:N	2.38	0.81
1:B:210:ALA:HB3	1:B:324:LEU:H	1.46	0.81
1:B:608:VAL:HB	1:B:648:MET:HB2	1.63	0.81
1:F:219:PHE:HB2	1:F:311:THR:O	1.80	0.81
1:F:416:ILE:HG12	1:F:503:ILE:HD12	1.61	0.81
1:H:221:ILE:HD11	1:H:258:ALA:HA	1.63	0.81
1:J:451:TYR:N	1:J:458:VAL:HG21	1.80	0.81
1:K:572:LYS:HD2	1:K:572:LYS:H	1.44	0.81
1:L:572:LYS:HD2	1:L:572:LYS:H	1.45	0.81
1:P:451:TYR:HA	1:P:458:VAL:HG23	0.84	0.81
1:S:451:TYR:N	1:S:458:VAL:HG21	1.80	0.81
1:T:424:THR:OG1	1:T:489:THR:HG23	1.80	0.81
1:A:572:LYS:HD2	1:A:572:LYS:H	1.44	0.81
1:H:416:ILE:HG12	1:H:503:ILE:HD12	1.61	0.81
1:J:210:ALA:HB3	1:J:324:LEU:H	1.46	0.81
1:L:451:TYR:HD1	1:L:457:ILE:CA	1.91	0.81
1:Q:210:ALA:HB3	1:Q:324:LEU:H	1.46	0.81
1:S:471:ALA:HB2	1:S:527:LEU:HB3	1.61	0.81
1:B:219:PHE:HB2	1:B:311:THR:O	1.80	0.81
1:F:348:LEU:HD23	1:N:387:ARG:HH12	1.41	0.81
1:J:402:LYS:HZ2	1:J:511:PHE:HE2	1.26	0.81
1:K:221:ILE:HD11	1:K:258:ALA:HA	1.63	0.81
1:K:424:THR:OG1	1:K:489:THR:HG23	1.80	0.81
1:O:424:THR:OG1	1:O:489:THR:HG23	1.80	0.81
1:P:280:SER:HG	1:P:334:HIS:CD2	1.97	0.81
1:Q:608:VAL:HB	1:Q:648:MET:HB2	1.63	0.81
1:A:608:VAL:HB	1:A:648:MET:HB2	1.63	0.80
1:C:608:VAL:HB	1:C:648:MET:HB2	1.63	0.80
1:I:416:ILE:HG12	1:I:503:ILE:HD12	1.61	0.80
1:J:608:VAL:HB	1:J:648:MET:HB2	1.63	0.80
1:P:504:ASN:HB3	1:P:505:PRO:CD	2.11	0.80
1:T:608:VAL:HB	1:T:648:MET:HB2	1.63	0.80
1:B:504:ASN:HB3	1:B:505:PRO:CD	2.12	0.80
1:D:437:VAL:CG1	1:D:439:THR:N	2.38	0.80
1:M:416:ILE:HG12	1:M:503:ILE:HD12	1.61	0.80
1:M:504:ASN:HB3	1:M:505:PRO:CD	2.12	0.80
1:N:210:ALA:HB3	1:N:324:LEU:H	1.46	0.80
1:O:416:ILE:HG12	1:O:503:ILE:HD12	1.61	0.80
1:P:608:VAL:HB	1:P:648:MET:HB2	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:219:PHE:HB2	1:T:311:THR:O	1.80	0.80
1:A:424:THR:OG1	1:A:489:THR:HG23	1.80	0.80
1:B:324:LEU:HD22	1:F:271:LEU:HB3	1.60	0.80
1:C:219:PHE:HB2	1:C:311:THR:O	1.80	0.80
1:E:219:PHE:HB2	1:E:311:THR:O	1.80	0.80
1:G:210:ALA:HB3	1:G:324:LEU:H	1.46	0.80
1:H:210:ALA:HB3	1:H:324:LEU:H	1.46	0.80
1:J:280:SER:HG	1:J:334:HIS:CD2	1.97	0.80
1:J:451:TYR:HD1	1:J:457:ILE:HA	1.47	0.80
1:K:451:TYR:HD1	1:K:457:ILE:HA	1.47	0.80
1:M:280:SER:HG	1:M:334:HIS:CD2	1.97	0.80
1:S:440:SER:HB2	1:S:443:THR:OG1	1.79	0.80
1:N:424:THR:OG1	1:N:489:THR:HG23	1.80	0.80
1:R:608:VAL:HB	1:R:648:MET:HB2	1.63	0.80
1:S:221:ILE:HD11	1:S:258:ALA:HA	1.63	0.80
1:S:424:THR:OG1	1:S:489:THR:HG23	1.80	0.80
1:B:451:TYR:HD1	1:B:457:ILE:HA	1.47	0.80
1:C:451:TYR:HD1	1:C:457:ILE:HA	1.47	0.80
1:F:451:TYR:HD1	1:F:457:ILE:HA	1.47	0.80
1:L:221:ILE:HD11	1:L:258:ALA:HA	1.63	0.80
1:M:451:TYR:HD1	1:M:457:ILE:HA	1.47	0.80
1:N:416:ILE:HG12	1:N:503:ILE:HD12	1.61	0.80
1:R:221:ILE:HD11	1:R:258:ALA:HA	1.62	0.80
1:T:448:PRO:O	1:T:449:ARG:CG	2.30	0.80
1:A:437:VAL:CG1	1:A:439:THR:N	2.38	0.80
1:C:221:ILE:HD11	1:C:258:ALA:HA	1.63	0.80
1:D:424:THR:OG1	1:D:489:THR:HG23	1.80	0.80
1:D:448:PRO:O	1:D:449:ARG:CG	2.30	0.80
1:F:210:ALA:HB3	1:F:324:LEU:H	1.46	0.80
1:I:448:PRO:O	1:I:449:ARG:CG	2.30	0.80
1:L:448:PRO:O	1:L:449:ARG:CG	2.30	0.80
1:M:440:SER:HB2	1:M:443:THR:OG1	1.79	0.80
1:O:608:VAL:HB	1:O:648:MET:HB2	1.63	0.80
1:S:275:LEU:CD1	1:T:275:LEU:N	2.45	0.80
1:B:451:TYR:HD1	1:B:457:ILE:CB	1.95	0.80
1:D:451:TYR:HD1	1:D:457:ILE:CB	1.95	0.80
1:F:608:VAL:HB	1:F:648:MET:HB2	1.63	0.80
1:J:437:VAL:CG1	1:J:439:THR:N	2.38	0.80
1:L:411:PHE:CD1	1:L:418:ASP:CB	2.62	0.80
1:M:451:TYR:HD1	1:M:457:ILE:CB	1.95	0.80
1:P:424:THR:OG1	1:P:489:THR:HG23	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:387:ARG:NH2	1:R:348:LEU:CD2	2.41	0.80
1:Q:448:PRO:O	1:Q:449:ARG:CG	2.30	0.80
1:R:210:ALA:HB3	1:R:324:LEU:H	1.46	0.80
1:A:451:TYR:HD1	1:A:457:ILE:CB	1.95	0.80
1:B:275:LEU:CD1	1:F:275:LEU:N	2.45	0.80
1:D:451:TYR:HD1	1:D:457:ILE:HA	1.47	0.80
1:G:451:TYR:HD1	1:G:457:ILE:CB	1.95	0.80
1:H:504:ASN:HB3	1:H:505:PRO:CD	2.12	0.80
1:I:424:THR:OG1	1:I:489:THR:HG23	1.80	0.80
1:I:608:VAL:HB	1:I:648:MET:HB2	1.63	0.80
1:L:280:SER:HG	1:L:334:HIS:CD2	1.96	0.80
1:M:397:GLN:HG2	1:M:523:SER:HB2	1.64	0.80
1:N:577:ILE:O	1:N:578:ARG:HG3	1.82	0.80
1:O:577:ILE:O	1:O:578:ARG:HG3	1.82	0.80
1:R:451:TYR:HD1	1:R:457:ILE:HA	1.47	0.80
1:R:577:ILE:O	1:R:578:ARG:HG3	1.82	0.80
1:S:504:ASN:HB3	1:S:505:PRO:CD	2.12	0.80
1:A:504:ASN:HB3	1:A:505:PRO:CD	2.12	0.80
1:B:271:LEU:HB3	1:R:324:LEU:HD22	1.60	0.80
1:B:448:PRO:O	1:B:449:ARG:CG	2.30	0.80
1:J:219:PHE:HB2	1:J:311:THR:O	1.80	0.80
1:J:448:PRO:O	1:J:449:ARG:CG	2.30	0.80
1:J:451:TYR:HD1	1:J:457:ILE:CB	1.95	0.80
1:K:451:TYR:HD1	1:K:457:ILE:CB	1.95	0.80
1:P:210:ALA:HB3	1:P:324:LEU:H	1.46	0.80
1:T:451:TYR:HD1	1:T:457:ILE:HA	1.47	0.80
1:A:448:PRO:O	1:A:449:ARG:CG	2.30	0.80
1:C:210:ALA:HB3	1:C:324:LEU:H	1.46	0.80
1:C:451:TYR:HD1	1:C:457:ILE:CB	1.95	0.80
1:F:577:ILE:O	1:F:578:ARG:HG3	1.82	0.80
1:G:577:ILE:O	1:G:578:ARG:HG3	1.82	0.80
1:I:451:TYR:HD1	1:I:457:ILE:HA	1.47	0.80
1:J:504:ASN:HB3	1:J:505:PRO:CD	2.12	0.80
1:J:577:ILE:O	1:J:578:ARG:HG3	1.82	0.80
1:L:451:TYR:HD1	1:L:457:ILE:CB	1.95	0.80
1:N:280:SER:HG	1:N:334:HIS:CD2	1.97	0.80
1:R:397:GLN:HG2	1:R:523:SER:HB2	1.64	0.80
1:S:451:TYR:HD1	1:S:457:ILE:CB	1.95	0.80
1:T:210:ALA:HB3	1:T:324:LEU:H	1.46	0.80
1:T:451:TYR:HD1	1:T:457:ILE:CB	1.95	0.80
1:T:577:ILE:O	1:T:578:ARG:HG3	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:221:ILE:HD11	1:A:258:ALA:HA	1.63	0.79
1:D:608:VAL:HB	1:D:648:MET:HB2	1.63	0.79
1:E:397:GLN:HG2	1:E:523:SER:HB2	1.64	0.79
1:F:327:PRO:CG	1:R:237:PRO:HD2	2.12	0.79
1:G:448:PRO:O	1:G:449:ARG:CG	2.30	0.79
1:H:451:TYR:HD1	1:H:457:ILE:CB	1.95	0.79
1:H:577:ILE:O	1:H:578:ARG:HG3	1.82	0.79
1:K:577:ILE:O	1:K:578:ARG:HG3	1.82	0.79
1:L:608:VAL:HB	1:L:648:MET:HB2	1.63	0.79
1:P:451:TYR:HD1	1:P:457:ILE:CB	1.95	0.79
1:S:210:ALA:HB3	1:S:324:LEU:H	1.46	0.79
1:A:271:LEU:CB	1:D:324:LEU:CD2	2.58	0.79
1:A:451:TYR:HD1	1:A:457:ILE:HA	1.47	0.79
1:D:210:ALA:HB3	1:D:324:LEU:H	1.46	0.79
1:H:608:VAL:HB	1:H:648:MET:HB2	1.63	0.79
1:I:451:TYR:N	1:I:458:VAL:HG21	1.80	0.79
1:N:397:GLN:HG2	1:N:523:SER:HB2	1.64	0.79
1:O:221:ILE:HD11	1:O:258:ALA:HA	1.63	0.79
1:O:397:GLN:HG2	1:O:523:SER:HB2	1.65	0.79
1:P:577:ILE:O	1:P:578:ARG:HG3	1.82	0.79
1:R:448:PRO:O	1:R:449:ARG:CG	2.30	0.79
1:S:280:SER:HG	1:S:334:HIS:CD2	1.96	0.79
1:B:237:PRO:HD2	1:R:327:PRO:CG	2.12	0.79
1:B:292:TYR:CE2	1:Q:311:THR:CG2	2.59	0.79
1:D:221:ILE:HD11	1:D:258:ALA:HA	1.63	0.79
1:D:237:PRO:HD2	1:L:327:PRO:CG	2.12	0.79
1:E:221:ILE:HD11	1:E:258:ALA:HA	1.62	0.79
1:E:448:PRO:O	1:E:449:ARG:CG	2.30	0.79
1:E:503:ILE:HD13	1:E:504:ASN:N	1.98	0.79
1:F:324:LEU:CD2	1:R:271:LEU:CB	2.57	0.79
1:M:271:LEU:CB	1:Q:324:LEU:CD2	2.57	0.79
1:N:451:TYR:N	1:N:458:VAL:HG21	1.80	0.79
1:P:451:TYR:HD1	1:P:457:ILE:HA	1.47	0.79
1:Q:451:TYR:HD1	1:Q:457:ILE:HA	1.47	0.79
1:R:503:ILE:HD13	1:R:504:ASN:N	1.98	0.79
1:T:397:GLN:HG2	1:T:523:SER:HB2	1.64	0.79
1:A:503:ILE:HD13	1:A:504:ASN:N	1.98	0.79
1:C:577:ILE:O	1:C:578:ARG:HG3	1.82	0.79
1:D:504:ASN:HB3	1:D:505:PRO:CD	2.12	0.79
1:D:577:ILE:O	1:D:578:ARG:HG3	1.82	0.79
1:I:451:TYR:HD1	1:I:457:ILE:CB	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:397:GLN:HG2	1:K:523:SER:HB2	1.64	0.79
1:K:448:PRO:O	1:K:449:ARG:CG	2.30	0.79
1:N:448:PRO:O	1:N:449:ARG:CG	2.30	0.79
1:P:427:SER:HG	1:P:429:LEU:HD21	1.43	0.79
1:Q:221:ILE:HD11	1:Q:258:ALA:HA	1.62	0.79
1:Q:416:ILE:HG12	1:Q:503:ILE:HD12	1.61	0.79
1:Q:504:ASN:HB3	1:Q:505:PRO:CD	2.12	0.79
1:S:448:PRO:O	1:S:449:ARG:CG	2.30	0.79
1:T:221:ILE:HD11	1:T:258:ALA:HA	1.63	0.79
1:A:397:GLN:HG2	1:A:523:SER:HB2	1.64	0.79
1:B:271:LEU:CB	1:R:324:LEU:CD2	2.57	0.79
1:B:397:GLN:HG2	1:B:523:SER:HB2	1.64	0.79
1:E:451:TYR:HD1	1:E:457:ILE:HA	1.47	0.79
1:F:397:GLN:HG2	1:F:523:SER:HB2	1.64	0.79
1:G:503:ILE:HD13	1:G:504:ASN:N	1.98	0.79
1:G:504:ASN:HB3	1:G:505:PRO:CD	2.12	0.79
1:H:451:TYR:HD1	1:H:457:ILE:HA	1.47	0.79
1:J:451:TYR:CA	1:J:458:VAL:CG2	2.36	0.79
1:K:275:LEU:N	1:N:275:LEU:CD1	2.45	0.79
1:M:503:ILE:HD13	1:M:504:ASN:N	1.98	0.79
1:S:437:VAL:CG1	1:S:439:THR:N	2.38	0.79
1:T:503:ILE:HD13	1:T:504:ASN:N	1.98	0.79
1:A:275:LEU:CD1	1:L:275:LEU:N	2.45	0.79
1:C:503:ILE:HD13	1:C:504:ASN:N	1.98	0.79
1:D:503:ILE:HD13	1:D:504:ASN:N	1.98	0.79
1:E:577:ILE:O	1:E:578:ARG:HG3	1.82	0.79
1:F:448:PRO:O	1:F:449:ARG:CG	2.30	0.79
1:F:451:TYR:HD1	1:F:457:ILE:CB	1.95	0.79
1:G:397:GLN:HG2	1:G:523:SER:HB2	1.64	0.79
1:J:503:ILE:HD13	1:J:504:ASN:N	1.98	0.79
1:M:275:LEU:N	1:Q:275:LEU:CD1	2.45	0.79
1:M:448:PRO:O	1:M:449:ARG:CG	2.30	0.79
1:Q:451:TYR:HD1	1:Q:457:ILE:CB	1.95	0.79
1:S:397:GLN:HG2	1:S:523:SER:HB2	1.64	0.79
1:A:280:SER:HG	1:A:334:HIS:CD2	1.97	0.79
1:C:292:TYR:CE2	1:K:311:THR:CG2	2.59	0.79
1:C:311:THR:CG2	1:S:292:TYR:CE2	2.60	0.79
1:E:210:ALA:HB3	1:E:324:LEU:H	1.46	0.79
1:F:221:ILE:HD11	1:F:258:ALA:HA	1.63	0.79
1:I:280:SER:HG	1:I:334:HIS:CD2	1.96	0.79
1:M:577:ILE:O	1:M:578:ARG:HG3	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:608:VAL:HB	1:M:648:MET:HB2	1.63	0.79
1:B:503:ILE:HD13	1:B:504:ASN:N	1.98	0.79
1:C:448:PRO:O	1:C:449:ARG:CG	2.30	0.79
1:H:437:VAL:CG1	1:H:439:THR:N	2.38	0.79
1:I:221:ILE:HD11	1:I:258:ALA:HA	1.62	0.79
1:I:577:ILE:O	1:I:578:ARG:HG3	1.82	0.79
1:O:411:PHE:CD1	1:O:418:ASP:CB	2.62	0.79
1:O:451:TYR:HD1	1:O:457:ILE:CB	1.95	0.79
1:P:448:PRO:O	1:P:449:ARG:CG	2.30	0.79
1:S:451:TYR:HD1	1:S:457:ILE:HA	1.47	0.79
1:B:577:ILE:O	1:B:578:ARG:HG3	1.82	0.79
1:F:348:LEU:CD2	1:N:387:ARG:NH2	2.40	0.79
1:I:503:ILE:HD13	1:I:504:ASN:N	1.98	0.79
1:I:504:ASN:HB3	1:I:505:PRO:CD	2.12	0.79
1:O:448:PRO:O	1:O:449:ARG:CG	2.30	0.79
1:P:503:ILE:HD13	1:P:504:ASN:N	1.98	0.79
1:A:210:ALA:HB3	1:A:324:LEU:H	1.46	0.79
1:A:275:LEU:N	1:D:275:LEU:CD1	2.45	0.79
1:B:221:ILE:HD11	1:B:258:ALA:HA	1.63	0.79
1:E:451:TYR:HD1	1:E:457:ILE:CB	1.95	0.79
1:I:397:GLN:HG2	1:I:523:SER:HB2	1.64	0.79
1:L:503:ILE:HD13	1:L:504:ASN:N	1.98	0.79
1:L:577:ILE:O	1:L:578:ARG:HG3	1.82	0.79
1:A:327:PRO:CG	1:L:237:PRO:HD2	2.12	0.78
1:B:275:LEU:N	1:R:275:LEU:CD1	2.45	0.78
1:C:280:SER:HG	1:C:334:HIS:CD2	1.97	0.78
1:E:504:ASN:HB3	1:E:505:PRO:CD	2.12	0.78
1:P:397:GLN:HG2	1:P:523:SER:HB2	1.64	0.78
1:E:275:LEU:CD1	1:J:275:LEU:N	2.45	0.78
1:E:608:VAL:HB	1:E:648:MET:HB2	1.63	0.78
1:F:275:LEU:CD1	1:R:275:LEU:N	2.45	0.78
1:H:292:TYR:CE2	1:T:311:THR:CG2	2.60	0.78
1:H:448:PRO:O	1:H:449:ARG:CG	2.30	0.78
1:I:292:TYR:CE2	1:M:311:THR:CG2	2.60	0.78
1:J:397:GLN:HG2	1:J:523:SER:HB2	1.64	0.78
1:K:237:PRO:HD2	1:N:327:PRO:CG	2.12	0.78
1:N:504:ASN:HB3	1:N:505:PRO:CD	2.12	0.78
1:A:387:ARG:NH2	1:E:348:LEU:CD2	2.41	0.78
1:A:451:TYR:CA	1:A:458:VAL:CG2	2.36	0.78
1:B:451:TYR:N	1:B:458:VAL:HG21	1.80	0.78
1:M:210:ALA:HB3	1:M:324:LEU:H	1.46	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:427:SER:HG	1:O:429:LEU:HD21	1.48	0.78
1:P:411:PHE:CD1	1:P:418:ASP:CB	2.62	0.78
1:B:327:PRO:CG	1:F:237:PRO:HD2	2.12	0.78
1:D:275:LEU:N	1:L:275:LEU:CD1	2.45	0.78
1:K:271:LEU:HD13	1:N:324:LEU:HD22	1.66	0.78
1:K:411:PHE:CD1	1:K:418:ASP:CB	2.62	0.78
1:K:608:VAL:HB	1:K:648:MET:HB2	1.63	0.78
1:S:577:ILE:O	1:S:578:ARG:HG3	1.82	0.78
1:T:504:ASN:HB3	1:T:505:PRO:CD	2.12	0.78
1:F:275:LEU:HD12	1:R:275:LEU:CA	2.14	0.78
1:F:280:SER:HG	1:F:334:HIS:CD2	1.96	0.78
1:G:395:ILE:H	1:G:395:ILE:HD13	1.49	0.78
1:H:280:SER:HG	1:H:334:HIS:CD2	1.98	0.78
1:J:299:TYR:CE2	1:P:299:TYR:HE2	2.02	0.78
1:K:210:ALA:HB3	1:K:324:LEU:H	1.46	0.78
1:L:395:ILE:HD13	1:L:395:ILE:H	1.49	0.78
1:L:504:ASN:HB3	1:L:505:PRO:CD	2.12	0.78
1:O:504:ASN:HB3	1:O:505:PRO:CD	2.12	0.78
1:Q:503:ILE:HD13	1:Q:504:ASN:N	1.98	0.78
1:S:503:ILE:HD13	1:S:504:ASN:N	1.98	0.78
1:C:299:TYR:HE2	1:K:299:TYR:CE2	2.02	0.78
1:F:324:LEU:HD22	1:R:271:LEU:HD13	1.66	0.78
1:F:503:ILE:HD13	1:F:504:ASN:N	1.98	0.78
1:M:473:GLN:HA	1:M:524:ASP:OD1	1.84	0.78
1:N:451:TYR:HD1	1:N:457:ILE:HA	1.47	0.78
1:O:210:ALA:HB3	1:O:324:LEU:H	1.46	0.78
1:B:275:LEU:HD12	1:F:275:LEU:N	1.99	0.78
1:B:324:LEU:HD22	1:F:271:LEU:HD13	1.66	0.78
1:K:503:ILE:HD13	1:K:504:ASN:N	1.98	0.78
1:L:172:PHE:HB2	1:T:253:HIS:CE1	2.19	0.78
1:N:451:TYR:CA	1:N:458:VAL:CG2	2.36	0.78
1:N:451:TYR:HD1	1:N:457:ILE:CB	1.95	0.78
1:R:451:TYR:HD1	1:R:457:ILE:CB	1.95	0.78
1:S:395:ILE:HD13	1:S:395:ILE:H	1.49	0.78
1:T:437:VAL:CG1	1:T:439:THR:N	2.38	0.78
1:A:275:LEU:CG	1:D:275:LEU:CD1	2.34	0.78
1:A:324:LEU:HD22	1:L:271:LEU:HD13	1.66	0.78
1:A:473:GLN:HA	1:A:524:ASP:OD1	1.84	0.78
1:B:280:SER:CB	1:B:334:HIS:CE1	2.67	0.78
1:B:473:GLN:HA	1:B:524:ASP:OD1	1.84	0.78
1:C:397:GLN:HG2	1:C:523:SER:HB2	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:327:PRO:CG	1:J:237:PRO:HD2	2.12	0.78
1:F:275:LEU:HD12	1:R:275:LEU:N	1.99	0.78
1:C:395:ILE:H	1:C:395:ILE:HD13	1.49	0.78
1:I:210:ALA:HB3	1:I:324:LEU:H	1.46	0.78
1:J:342:ILE:H	1:J:342:ILE:CD1	1.97	0.78
1:K:473:GLN:HA	1:K:524:ASP:OD1	1.84	0.78
1:N:395:ILE:H	1:N:395:ILE:HD13	1.49	0.78
1:N:503:ILE:HD13	1:N:504:ASN:N	1.98	0.78
1:A:275:LEU:N	1:D:275:LEU:HD12	1.99	0.78
1:B:275:LEU:CA	1:R:275:LEU:HD12	2.14	0.78
1:B:275:LEU:HD12	1:F:275:LEU:CA	2.14	0.78
1:D:342:ILE:H	1:D:342:ILE:CD1	1.97	0.78
1:E:253:HIS:CE1	1:O:172:PHE:HB2	2.19	0.78
1:F:395:ILE:H	1:F:395:ILE:HD13	1.49	0.78
1:H:172:PHE:HB2	1:O:253:HIS:CE1	2.19	0.78
1:M:342:ILE:CD1	1:M:342:ILE:H	1.97	0.78
1:N:401:GLU:OE1	1:N:402:LYS:CG	2.32	0.78
1:Q:280:SER:HG	1:Q:334:HIS:CD2	1.97	0.78
1:B:342:ILE:CD1	1:B:342:ILE:H	1.97	0.77
1:C:395:ILE:HG22	1:C:406:GLY:HA3	1.67	0.77
1:D:275:LEU:N	1:L:275:LEU:HD12	1.99	0.77
1:D:395:ILE:HD13	1:D:395:ILE:H	1.49	0.77
1:E:299:TYR:CE2	1:L:299:TYR:HE2	2.02	0.77
1:E:395:ILE:HG22	1:E:406:GLY:HA3	1.66	0.77
1:F:401:GLU:OE1	1:F:402:LYS:CG	2.33	0.77
1:F:504:ASN:HB3	1:F:505:PRO:CD	2.12	0.77
1:G:411:PHE:CD1	1:G:418:ASP:CB	2.62	0.77
1:H:411:PHE:CD1	1:H:418:ASP:CB	2.62	0.77
1:J:398:LYS:N	1:J:403:LEU:HD23	2.00	0.77
1:L:210:ALA:HB3	1:L:324:LEU:H	1.46	0.77
1:L:473:GLN:HA	1:L:524:ASP:OD1	1.84	0.77
1:O:395:ILE:HD13	1:O:395:ILE:H	1.49	0.77
1:Q:401:GLU:OE1	1:Q:402:LYS:CG	2.32	0.77
1:S:275:LEU:HD12	1:T:275:LEU:N	1.99	0.77
1:S:280:SER:CB	1:S:334:HIS:CE1	2.67	0.77
1:S:324:LEU:HD22	1:T:271:LEU:HD13	1.66	0.77
1:T:395:ILE:HG22	1:T:406:GLY:HA3	1.66	0.77
1:A:172:PHE:HB2	1:J:253:HIS:CE1	2.19	0.77
1:A:398:LYS:N	1:A:403:LEU:HD23	2.00	0.77
1:B:395:ILE:H	1:B:395:ILE:HD13	1.49	0.77
1:E:275:LEU:HD12	1:J:275:LEU:CA	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:397:GLN:HG2	1:H:523:SER:HB2	1.64	0.77
1:H:503:ILE:HD13	1:H:504:ASN:N	1.98	0.77
1:L:401:GLU:OE1	1:L:402:LYS:CG	2.33	0.77
1:M:237:PRO:HD2	1:Q:327:PRO:CG	2.12	0.77
1:M:299:TYR:HE2	1:R:299:TYR:CE2	2.02	0.77
1:N:395:ILE:HG22	1:N:406:GLY:HA3	1.66	0.77
1:N:398:LYS:N	1:N:403:LEU:HD23	1.99	0.77
1:N:437:VAL:CG1	1:N:439:THR:N	2.38	0.77
1:O:451:TYR:HD1	1:O:457:ILE:HA	1.47	0.77
1:P:299:TYR:CE2	1:Q:299:TYR:HE2	2.02	0.77
1:Q:280:SER:CB	1:Q:334:HIS:CE1	2.67	0.77
1:Q:473:GLN:HA	1:Q:524:ASP:OD1	1.84	0.77
1:A:395:ILE:HD13	1:A:395:ILE:H	1.49	0.77
1:A:395:ILE:HG22	1:A:406:GLY:HA3	1.66	0.77
1:A:577:ILE:O	1:A:578:ARG:HG3	1.82	0.77
1:C:253:HIS:CE1	1:K:172:PHE:HB2	2.19	0.77
1:F:299:TYR:CE2	1:K:299:TYR:HE2	2.02	0.77
1:F:342:ILE:CD1	1:F:342:ILE:H	1.97	0.77
1:F:555:GLU:C	1:F:556:THR:HG23	2.10	0.77
1:G:280:SER:CB	1:G:334:HIS:CE1	2.67	0.77
1:G:342:ILE:H	1:G:342:ILE:CD1	1.97	0.77
1:G:437:VAL:CG1	1:G:439:THR:N	2.38	0.77
1:H:280:SER:CB	1:H:334:HIS:CE1	2.67	0.77
1:H:299:TYR:HE2	1:T:299:TYR:CE2	2.02	0.77
1:J:555:GLU:C	1:J:556:THR:HG23	2.10	0.77
1:K:275:LEU:N	1:N:275:LEU:HD12	1.99	0.77
1:O:342:ILE:H	1:O:342:ILE:CD1	1.97	0.77
1:O:503:ILE:HD13	1:O:504:ASN:N	1.98	0.77
1:O:555:GLU:C	1:O:556:THR:HG23	2.10	0.77
1:P:352:ASN:HD22	1:P:586:GLN:H	1.33	0.77
1:Q:555:GLU:C	1:Q:556:THR:HG23	2.10	0.77
1:R:411:PHE:CD1	1:R:418:ASP:CB	2.62	0.77
1:S:352:ASN:HD22	1:S:586:GLN:H	1.33	0.77
1:S:473:GLN:HA	1:S:524:ASP:OD1	1.84	0.77
1:C:425:ILE:HG12	1:C:499:PRO:HB3	1.67	0.77
1:D:292:TYR:CE2	1:S:311:THR:CG2	2.59	0.77
1:D:398:LYS:N	1:D:403:LEU:HD23	2.00	0.77
1:E:292:TYR:CE2	1:O:311:THR:CG2	2.60	0.77
1:I:253:HIS:CE1	1:M:172:PHE:HB2	2.19	0.77
1:M:395:ILE:HG22	1:M:406:GLY:HA3	1.66	0.77
1:P:280:SER:CB	1:P:334:HIS:CE1	2.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:577:ILE:O	1:Q:578:ARG:HG3	1.82	0.77
1:R:398:LYS:N	1:R:403:LEU:HD23	1.99	0.77
1:T:360:ASP:HB3	1:T:568:LYS:HB3	1.67	0.77
1:T:395:ILE:HD13	1:T:395:ILE:H	1.49	0.77
1:A:360:ASP:HB3	1:A:568:LYS:HB3	1.67	0.77
1:B:275:LEU:HD12	1:F:275:LEU:HA	1.67	0.77
1:B:555:GLU:C	1:B:556:THR:HG23	2.10	0.77
1:D:172:PHE:HB2	1:F:253:HIS:CE1	2.19	0.77
1:D:555:GLU:C	1:D:556:THR:HG23	2.10	0.77
1:F:280:SER:CB	1:F:334:HIS:CE1	2.67	0.77
1:G:555:GLU:C	1:G:556:THR:HG23	2.10	0.77
1:H:473:GLN:HA	1:H:524:ASP:OD1	1.84	0.77
1:I:473:GLN:HA	1:I:524:ASP:OD1	1.84	0.77
1:K:275:LEU:CA	1:N:275:LEU:HD12	2.14	0.77
1:K:280:SER:CB	1:K:334:HIS:CE1	2.67	0.77
1:K:342:ILE:H	1:K:342:ILE:CD1	1.97	0.77
1:K:395:ILE:HG22	1:K:406:GLY:HA3	1.66	0.77
1:L:425:ILE:HG12	1:L:499:PRO:HB3	1.67	0.77
1:L:451:TYR:HD1	1:L:457:ILE:HA	1.47	0.77
1:M:253:HIS:CE1	1:R:172:PHE:HB2	2.19	0.77
1:M:425:ILE:HG12	1:M:499:PRO:HB3	1.67	0.77
1:N:280:SER:CB	1:N:334:HIS:CE1	2.67	0.77
1:N:608:VAL:HB	1:N:648:MET:HB2	1.63	0.77
1:Q:397:GLN:HG2	1:Q:523:SER:HB2	1.64	0.77
1:A:237:PRO:HD2	1:D:327:PRO:CG	2.12	0.77
1:B:395:ILE:HG22	1:B:406:GLY:HA3	1.66	0.77
1:C:451:TYR:CA	1:C:458:VAL:CG2	2.36	0.77
1:E:275:LEU:HD12	1:J:275:LEU:N	1.99	0.77
1:G:299:TYR:CE2	1:N:299:TYR:HE2	2.02	0.77
1:G:360:ASP:HB3	1:G:568:LYS:HB3	1.67	0.77
1:G:425:ILE:HG12	1:G:499:PRO:HB3	1.67	0.77
1:H:253:HIS:CE1	1:T:172:PHE:HB2	2.19	0.77
1:I:425:ILE:HG12	1:I:499:PRO:HB3	1.67	0.77
1:L:299:TYR:CE2	1:T:299:TYR:HE2	2.02	0.77
1:L:342:ILE:H	1:L:342:ILE:CD1	1.97	0.77
1:Q:398:LYS:N	1:Q:403:LEU:HD23	1.99	0.77
1:A:280:SER:CB	1:A:334:HIS:CE1	2.67	0.77
1:C:172:PHE:HB2	1:S:253:HIS:CE1	2.19	0.77
1:C:352:ASN:HD22	1:C:586:GLN:H	1.33	0.77
1:C:398:LYS:N	1:C:403:LEU:HD23	2.00	0.77
1:C:401:GLU:OE1	1:C:402:LYS:CG	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:271:LEU:HD13	1:L:324:LEU:HD22	1.66	0.77
1:E:473:GLN:HA	1:E:524:ASP:OD1	1.84	0.77
1:G:451:TYR:HD1	1:G:457:ILE:HA	1.47	0.77
1:J:395:ILE:HG22	1:J:406:GLY:HA3	1.67	0.77
1:L:395:ILE:HG22	1:L:406:GLY:HA3	1.66	0.77
1:L:397:GLN:HG2	1:L:523:SER:HB2	1.64	0.77
1:M:411:PHE:CD1	1:M:418:ASP:CB	2.62	0.77
1:Q:342:ILE:CD1	1:Q:342:ILE:H	1.97	0.77
1:S:395:ILE:HG22	1:S:406:GLY:HA3	1.66	0.77
1:S:555:GLU:C	1:S:556:THR:HG23	2.10	0.77
1:A:271:LEU:HD13	1:D:324:LEU:HD22	1.66	0.77
1:B:425:ILE:HG12	1:B:499:PRO:HB3	1.67	0.77
1:C:473:GLN:HA	1:C:524:ASP:OD1	1.84	0.77
1:D:251:TYR:HD1	1:L:328:PRO:C	1.60	0.77
1:E:299:TYR:HE2	1:O:299:TYR:CE2	2.02	0.77
1:F:352:ASN:HD22	1:F:586:GLN:H	1.33	0.77
1:F:398:LYS:N	1:F:403:LEU:HD23	1.99	0.77
1:H:342:ILE:H	1:H:342:ILE:CD1	1.97	0.77
1:H:360:ASP:HB3	1:H:568:LYS:HB3	1.67	0.77
1:H:395:ILE:HD13	1:H:395:ILE:H	1.49	0.77
1:H:398:LYS:N	1:H:403:LEU:HD23	1.99	0.77
1:P:395:ILE:HD13	1:P:395:ILE:H	1.49	0.77
1:P:555:GLU:C	1:P:556:THR:HG23	2.10	0.77
1:A:342:ILE:CD1	1:A:342:ILE:H	1.97	0.77
1:A:352:ASN:HD22	1:A:586:GLN:H	1.33	0.77
1:D:280:SER:CB	1:D:334:HIS:CE1	2.67	0.77
1:D:425:ILE:HG12	1:D:499:PRO:HB3	1.67	0.77
1:D:473:GLN:HA	1:D:524:ASP:OD1	1.84	0.77
1:F:360:ASP:HB3	1:F:568:LYS:HB3	1.67	0.77
1:H:311:THR:CG2	1:O:292:TYR:CE2	2.59	0.77
1:H:395:ILE:HG22	1:H:406:GLY:HA3	1.66	0.77
1:J:311:THR:CG2	1:P:292:TYR:CE2	2.59	0.77
1:O:437:VAL:CG1	1:O:439:THR:N	2.38	0.77
1:P:172:PHE:HB2	1:Q:253:HIS:CE1	2.19	0.77
1:P:342:ILE:CD1	1:P:342:ILE:H	1.97	0.77
1:Q:360:ASP:HB3	1:Q:568:LYS:HB3	1.67	0.77
1:Q:395:ILE:HG22	1:Q:406:GLY:HA3	1.66	0.77
1:R:280:SER:CB	1:R:334:HIS:CE1	2.67	0.77
1:R:425:ILE:HG12	1:R:499:PRO:HB3	1.67	0.77
1:T:555:GLU:C	1:T:556:THR:HG23	2.10	0.77
1:B:253:HIS:CE1	1:Q:172:PHE:HB2	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:275:LEU:N	1:R:275:LEU:HD12	1.99	0.77
1:C:280:SER:CB	1:C:334:HIS:CE1	2.67	0.77
1:E:280:SER:CB	1:E:334:HIS:CE1	2.67	0.77
1:E:398:LYS:N	1:E:403:LEU:HD23	1.99	0.77
1:F:172:PHE:HB2	1:K:253:HIS:CE1	2.19	0.77
1:F:395:ILE:HG22	1:F:406:GLY:HA3	1.66	0.77
1:F:448:PRO:O	1:F:449:ARG:HG3	1.85	0.77
1:G:448:PRO:O	1:G:449:ARG:HG3	1.85	0.77
1:N:172:PHE:HB2	1:R:253:HIS:CE1	2.19	0.77
1:O:280:SER:CB	1:O:334:HIS:CE1	2.67	0.77
1:P:398:LYS:N	1:P:403:LEU:HD23	1.99	0.77
1:C:360:ASP:HB3	1:C:568:LYS:HB3	1.67	0.76
1:C:448:PRO:O	1:C:449:ARG:HG3	1.85	0.76
1:D:397:GLN:HG2	1:D:523:SER:HB2	1.64	0.76
1:E:311:THR:CG2	1:L:292:TYR:CE2	2.60	0.76
1:H:222:SER:HB2	1:O:230:LYS:CG	2.16	0.76
1:H:555:GLU:C	1:H:556:THR:HG23	2.10	0.76
1:L:360:ASP:HB3	1:L:568:LYS:HB3	1.67	0.76
1:M:395:ILE:HD13	1:M:395:ILE:H	1.49	0.76
1:M:448:PRO:O	1:M:449:ARG:HG3	1.85	0.76
1:N:555:GLU:C	1:N:556:THR:HG23	2.10	0.76
1:O:448:PRO:O	1:O:449:ARG:HG3	1.86	0.76
1:O:473:GLN:HA	1:O:524:ASP:OD1	1.84	0.76
1:R:473:GLN:HA	1:R:524:ASP:OD1	1.84	0.76
1:S:360:ASP:HB3	1:S:568:LYS:HB3	1.67	0.76
1:S:398:LYS:N	1:S:403:LEU:HD23	1.99	0.76
1:S:411:PHE:CD1	1:S:418:ASP:CB	2.62	0.76
1:T:280:SER:CB	1:T:334:HIS:CE1	2.67	0.76
1:T:342:ILE:CD1	1:T:342:ILE:H	1.97	0.76
1:T:411:PHE:CD1	1:T:418:ASP:CB	2.62	0.76
1:B:398:LYS:N	1:B:403:LEU:HD23	1.99	0.76
1:G:352:ASN:HD22	1:G:586:GLN:H	1.33	0.76
1:H:425:ILE:HG12	1:H:499:PRO:HB3	1.67	0.76
1:K:360:ASP:HB3	1:K:568:LYS:HB3	1.67	0.76
1:K:395:ILE:H	1:K:395:ILE:HD13	1.49	0.76
1:K:398:LYS:N	1:K:403:LEU:HD23	1.99	0.76
1:K:401:GLU:OE1	1:K:402:LYS:CG	2.33	0.76
1:L:222:SER:HB2	1:T:230:LYS:CG	2.16	0.76
1:M:360:ASP:HB3	1:M:568:LYS:HB3	1.67	0.76
1:O:402:LYS:CD	1:O:511:PHE:CE2	2.69	0.76
1:D:253:HIS:CE1	1:S:172:PHE:HB2	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:425:ILE:HG12	1:F:499:PRO:HB3	1.67	0.76
1:F:473:GLN:HA	1:F:524:ASP:OD1	1.84	0.76
1:J:425:ILE:HG12	1:J:499:PRO:HB3	1.67	0.76
1:K:437:VAL:CG1	1:K:439:THR:N	2.38	0.76
1:L:398:LYS:N	1:L:403:LEU:HD23	1.99	0.76
1:N:425:ILE:HG12	1:N:499:PRO:HB3	1.67	0.76
1:P:222:SER:HB2	1:Q:230:LYS:CG	2.15	0.76
1:Q:395:ILE:HD13	1:Q:395:ILE:H	1.49	0.76
1:S:402:LYS:CD	1:S:511:PHE:CE2	2.69	0.76
1:T:448:PRO:O	1:T:449:ARG:HG3	1.85	0.76
1:B:411:PHE:CD1	1:B:418:ASP:CB	2.62	0.76
1:C:342:ILE:H	1:C:342:ILE:CD1	1.97	0.76
1:D:448:PRO:O	1:D:449:ARG:HG3	1.85	0.76
1:E:342:ILE:CD1	1:E:342:ILE:H	1.97	0.76
1:E:425:ILE:HG12	1:E:499:PRO:HB3	1.67	0.76
1:F:222:SER:HB2	1:K:230:LYS:CG	2.16	0.76
1:G:398:LYS:N	1:G:403:LEU:HD23	2.00	0.76
1:J:401:GLU:OE1	1:J:402:LYS:CG	2.33	0.76
1:J:473:GLN:HA	1:J:524:ASP:OD1	1.84	0.76
1:M:352:ASN:HD22	1:M:586:GLN:H	1.33	0.76
1:Q:448:PRO:O	1:Q:449:ARG:HG3	1.85	0.76
1:R:342:ILE:H	1:R:342:ILE:CD1	1.97	0.76
1:R:360:ASP:HB3	1:R:568:LYS:HB3	1.67	0.76
1:R:395:ILE:HG22	1:R:406:GLY:HA3	1.66	0.76
1:T:398:LYS:N	1:T:403:LEU:HD23	1.99	0.76
1:B:230:LYS:CG	1:Q:222:SER:HB2	2.15	0.76
1:C:402:LYS:CD	1:C:511:PHE:CE2	2.69	0.76
1:C:555:GLU:C	1:C:556:THR:HG23	2.10	0.76
1:D:360:ASP:HB3	1:D:568:LYS:HB3	1.67	0.76
1:E:402:LYS:CD	1:E:511:PHE:CE2	2.69	0.76
1:E:448:PRO:O	1:E:449:ARG:HG3	1.85	0.76
1:E:555:GLU:C	1:E:556:THR:HG23	2.10	0.76
1:H:230:LYS:CG	1:T:222:SER:HB2	2.15	0.76
1:I:342:ILE:CD1	1:I:342:ILE:H	1.97	0.76
1:I:395:ILE:HD13	1:I:395:ILE:H	1.49	0.76
1:I:398:LYS:N	1:I:403:LEU:HD23	1.99	0.76
1:L:352:ASN:HD22	1:L:586:GLN:H	1.33	0.76
1:M:275:LEU:N	1:Q:275:LEU:HD12	1.99	0.76
1:M:280:SER:CB	1:M:334:HIS:CE1	2.67	0.76
1:N:402:LYS:CD	1:N:511:PHE:CE2	2.69	0.76
1:P:402:LYS:CD	1:P:511:PHE:CE2	2.69	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:425:ILE:HG12	1:Q:499:PRO:HB3	1.67	0.76
1:R:395:ILE:H	1:R:395:ILE:HD13	1.49	0.76
1:A:299:TYR:HE2	1:B:299:TYR:CE2	2.02	0.76
1:B:271:LEU:HD13	1:R:324:LEU:HD22	1.66	0.76
1:B:448:PRO:O	1:B:449:ARG:HG3	1.86	0.76
1:I:280:SER:CB	1:I:334:HIS:CE1	2.67	0.76
1:K:425:ILE:HG12	1:K:499:PRO:HB3	1.67	0.76
1:P:297:ASN:HD22	1:P:298:PRO:CD	1.99	0.76
1:R:555:GLU:C	1:R:556:THR:HG23	2.10	0.76
1:A:425:ILE:HG12	1:A:499:PRO:HB3	1.67	0.76
1:D:299:TYR:CE2	1:F:299:TYR:HE2	2.02	0.76
1:E:324:LEU:HD22	1:J:271:LEU:HD13	1.66	0.76
1:F:437:VAL:CG1	1:F:439:THR:N	2.38	0.76
1:J:280:SER:CB	1:J:334:HIS:CE1	2.67	0.76
1:J:395:ILE:H	1:J:395:ILE:HD13	1.49	0.76
1:L:280:SER:CB	1:L:334:HIS:CE1	2.67	0.76
1:L:297:ASN:HD22	1:L:298:PRO:CD	1.99	0.76
1:M:297:ASN:HD22	1:M:298:PRO:CD	1.99	0.76
1:M:398:LYS:N	1:M:403:LEU:HD23	2.00	0.76
1:N:473:GLN:HA	1:N:524:ASP:OD1	1.84	0.76
1:R:437:VAL:CG1	1:R:439:THR:N	2.38	0.76
1:S:448:PRO:O	1:S:449:ARG:HG3	1.85	0.76
1:T:402:LYS:CD	1:T:511:PHE:CE2	2.69	0.76
1:A:275:LEU:HD12	1:L:275:LEU:N	1.99	0.76
1:A:299:TYR:CE2	1:J:299:TYR:HE2	2.02	0.76
1:A:401:GLU:OE1	1:A:402:LYS:CG	2.33	0.76
1:B:401:GLU:OE1	1:B:402:LYS:CG	2.33	0.76
1:C:297:ASN:HD22	1:C:298:PRO:CD	1.99	0.76
1:D:275:LEU:HA	1:L:275:LEU:HD12	1.66	0.76
1:D:299:TYR:HE2	1:S:299:TYR:CE2	2.02	0.76
1:D:402:LYS:CD	1:D:511:PHE:CE2	2.69	0.76
1:G:395:ILE:HG22	1:G:406:GLY:HA3	1.66	0.76
1:J:297:ASN:HD22	1:J:298:PRO:CD	1.99	0.76
1:J:448:PRO:O	1:J:449:ARG:HG3	1.86	0.76
1:K:451:TYR:CA	1:K:458:VAL:CG2	2.36	0.76
1:K:555:GLU:C	1:K:556:THR:HG23	2.10	0.76
1:L:451:TYR:N	1:L:458:VAL:HG21	1.80	0.76
1:M:401:GLU:OE1	1:M:402:LYS:CG	2.33	0.76
1:N:297:ASN:HD22	1:N:298:PRO:CD	1.99	0.76
1:O:398:LYS:N	1:O:403:LEU:HD23	2.00	0.76
1:P:425:ILE:HG12	1:P:499:PRO:HB3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:473:GLN:HA	1:P:524:ASP:OD1	1.84	0.76
1:D:395:ILE:HG22	1:D:406:GLY:HA3	1.66	0.76
1:E:451:TYR:CA	1:E:458:VAL:CG2	2.36	0.76
1:H:402:LYS:CD	1:H:511:PHE:CE2	2.69	0.76
1:K:448:PRO:O	1:K:449:ARG:HG3	1.85	0.76
1:M:292:TYR:CE2	1:R:311:THR:CG2	2.60	0.76
1:M:402:LYS:CD	1:M:511:PHE:CE2	2.69	0.76
1:N:342:ILE:H	1:N:342:ILE:CD1	1.97	0.76
1:N:360:ASP:HB3	1:N:568:LYS:HB3	1.67	0.76
1:P:395:ILE:HG22	1:P:406:GLY:HA3	1.66	0.76
1:P:448:PRO:O	1:P:449:ARG:HG3	1.85	0.76
1:R:401:GLU:OE1	1:R:402:LYS:CG	2.33	0.76
1:R:504:ASN:HB3	1:R:505:PRO:CD	2.12	0.76
1:S:569:ASN:O	1:S:570:THR:CG2	2.34	0.76
1:T:473:GLN:HA	1:T:524:ASP:OD1	1.84	0.76
1:A:451:TYR:CD1	1:A:457:ILE:HB	2.21	0.76
1:A:555:GLU:C	1:A:556:THR:HG23	2.10	0.76
1:C:569:ASN:O	1:C:570:THR:CG2	2.34	0.76
1:E:451:TYR:CD1	1:E:457:ILE:HB	2.21	0.76
1:G:299:TYR:HE2	1:I:299:TYR:CE2	2.02	0.76
1:I:230:LYS:CG	1:M:222:SER:HB2	2.16	0.76
1:J:360:ASP:HB3	1:J:568:LYS:HB3	1.67	0.76
1:L:311:THR:CG2	1:T:292:TYR:CE2	2.59	0.76
1:L:451:TYR:CD1	1:L:457:ILE:HB	2.21	0.76
1:O:401:GLU:OE1	1:O:402:LYS:CG	2.33	0.76
1:O:425:ILE:HG12	1:O:499:PRO:HB3	1.67	0.76
1:Q:297:ASN:HD22	1:Q:298:PRO:CD	1.99	0.76
1:Q:350:ILE:HA	1:Q:357:ASP:HA	1.68	0.76
1:Q:437:VAL:CG1	1:Q:439:THR:N	2.38	0.76
1:S:451:TYR:CD1	1:S:457:ILE:HB	2.21	0.76
1:A:253:HIS:CE1	1:B:172:PHE:HB2	2.19	0.75
1:B:275:LEU:HA	1:R:275:LEU:HD12	1.66	0.75
1:B:360:ASP:HB3	1:B:568:LYS:HB3	1.67	0.75
1:D:401:GLU:OE1	1:D:402:LYS:CG	2.33	0.75
1:E:172:PHE:HB2	1:L:253:HIS:CE1	2.19	0.75
1:F:297:ASN:HD22	1:F:298:PRO:CD	1.99	0.75
1:F:569:ASN:O	1:F:570:THR:CG2	2.34	0.75
1:H:352:ASN:HD22	1:H:586:GLN:H	1.33	0.75
1:H:401:GLU:OE1	1:H:402:LYS:CG	2.32	0.75
1:H:569:ASN:O	1:H:570:THR:CG2	2.34	0.75
1:I:402:LYS:CD	1:I:511:PHE:CE2	2.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:275:LEU:HA	1:N:275:LEU:HD12	1.66	0.75
1:K:297:ASN:HD22	1:K:298:PRO:CD	1.99	0.75
1:P:311:THR:CG2	1:Q:292:TYR:CE2	2.59	0.75
1:P:451:TYR:N	1:P:458:VAL:HG21	1.80	0.75
1:R:402:LYS:CD	1:R:511:PHE:CE2	2.69	0.75
1:A:222:SER:HB2	1:J:230:LYS:CG	2.16	0.75
1:A:230:LYS:CG	1:B:222:SER:HB2	2.16	0.75
1:A:569:ASN:O	1:A:570:THR:CG2	2.34	0.75
1:C:451:TYR:CD1	1:C:457:ILE:HB	2.21	0.75
1:D:402:LYS:HZ2	1:D:511:PHE:HE2	1.25	0.75
1:G:230:LYS:CG	1:I:222:SER:HB2	2.15	0.75
1:H:451:TYR:CD1	1:H:457:ILE:HB	2.21	0.75
1:K:451:TYR:CD1	1:K:457:ILE:HB	2.21	0.75
1:A:402:LYS:CD	1:A:511:PHE:CE2	2.69	0.75
1:E:360:ASP:HB3	1:E:568:LYS:HB3	1.67	0.75
1:E:411:PHE:CD1	1:E:418:ASP:CB	2.62	0.75
1:G:473:GLN:HA	1:G:524:ASP:OD1	1.84	0.75
1:I:299:TYR:HE2	1:M:299:TYR:CE2	2.02	0.75
1:I:395:ILE:HG22	1:I:406:GLY:HA3	1.66	0.75
1:J:172:PHE:HB2	1:P:253:HIS:CE1	2.19	0.75
1:K:402:LYS:CD	1:K:511:PHE:CE2	2.69	0.75
1:L:569:ASN:O	1:L:570:THR:CG2	2.34	0.75
1:M:230:LYS:CG	1:R:222:SER:HB2	2.16	0.75
1:N:451:TYR:CD1	1:N:457:ILE:HB	2.21	0.75
1:O:395:ILE:HG22	1:O:406:GLY:HA3	1.67	0.75
1:Q:402:LYS:CD	1:Q:511:PHE:CE2	2.69	0.75
1:Q:569:ASN:O	1:Q:570:THR:CG2	2.34	0.75
1:S:328:PRO:C	1:T:251:TYR:HD1	1.61	0.75
1:T:297:ASN:HD22	1:T:298:PRO:CD	1.99	0.75
1:E:297:ASN:HD22	1:E:298:PRO:CD	1.99	0.75
1:E:401:GLU:OE1	1:E:402:LYS:CG	2.32	0.75
1:F:275:LEU:CD1	1:R:275:LEU:CG	2.34	0.75
1:G:253:HIS:CE1	1:I:172:PHE:HB2	2.19	0.75
1:I:360:ASP:HB3	1:I:568:LYS:HB3	1.67	0.75
1:J:222:SER:HB2	1:P:230:LYS:CG	2.15	0.75
1:J:451:TYR:CD1	1:J:457:ILE:HB	2.21	0.75
1:M:555:GLU:C	1:M:556:THR:HG23	2.10	0.75
1:R:297:ASN:HD22	1:R:298:PRO:CD	1.99	0.75
1:B:299:TYR:HE2	1:Q:299:TYR:CE2	2.02	0.75
1:D:569:ASN:O	1:D:570:THR:CG2	2.34	0.75
1:E:230:LYS:CG	1:O:222:SER:HB2	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:416:ILE:CG1	1:E:503:ILE:HD12	2.17	0.75
1:F:402:LYS:CD	1:F:511:PHE:CE2	2.69	0.75
1:J:402:LYS:CD	1:J:511:PHE:CE2	2.69	0.75
1:L:402:LYS:CD	1:L:511:PHE:CE2	2.69	0.75
1:L:402:LYS:HZ2	1:L:511:PHE:HE2	1.35	0.75
1:L:448:PRO:O	1:L:449:ARG:HG3	1.86	0.75
1:P:569:ASN:O	1:P:570:THR:CG2	2.34	0.75
1:R:569:ASN:O	1:R:570:THR:CG2	2.34	0.75
1:S:327:PRO:CG	1:T:237:PRO:HD2	2.12	0.75
1:S:401:GLU:OE1	1:S:402:LYS:CG	2.33	0.75
1:S:425:ILE:HG12	1:S:499:PRO:HB3	1.67	0.75
1:T:569:ASN:O	1:T:570:THR:CG2	2.34	0.75
1:B:451:TYR:CD1	1:B:457:ILE:HB	2.21	0.75
1:C:350:ILE:HA	1:C:357:ASP:HA	1.69	0.75
1:D:222:SER:HB2	1:F:230:LYS:CG	2.16	0.75
1:G:401:GLU:OE1	1:G:402:LYS:CG	2.32	0.75
1:J:569:ASN:O	1:J:570:THR:CG2	2.34	0.75
1:O:350:ILE:HA	1:O:357:ASP:HA	1.69	0.75
1:A:448:PRO:O	1:A:449:ARG:HG3	1.85	0.75
1:C:299:TYR:CE2	1:S:299:TYR:HE2	2.02	0.75
1:D:350:ILE:HA	1:D:357:ASP:HA	1.69	0.75
1:F:311:THR:CG2	1:K:292:TYR:CE2	2.60	0.75
1:H:299:TYR:CE2	1:O:299:TYR:HE2	2.02	0.75
1:H:448:PRO:O	1:H:449:ARG:HG3	1.86	0.75
1:K:504:ASN:HB3	1:K:505:PRO:CD	2.12	0.75
1:L:555:GLU:C	1:L:556:THR:HG23	2.10	0.75
1:N:222:SER:HB2	1:R:230:LYS:CG	2.16	0.75
1:N:350:ILE:HA	1:N:357:ASP:HA	1.69	0.75
1:N:569:ASN:O	1:N:570:THR:CG2	2.34	0.75
1:R:416:ILE:CG1	1:R:503:ILE:HD12	2.17	0.75
1:A:297:ASN:HD22	1:A:298:PRO:CD	1.99	0.75
1:D:230:LYS:CG	1:S:222:SER:HB2	2.16	0.75
1:D:297:ASN:HD22	1:D:298:PRO:CD	1.99	0.75
1:D:352:ASN:HD22	1:D:586:GLN:H	1.33	0.75
1:D:451:TYR:CD1	1:D:457:ILE:HB	2.21	0.75
1:G:292:TYR:CE2	1:I:311:THR:CG2	2.59	0.75
1:I:555:GLU:C	1:I:556:THR:HG23	2.10	0.75
1:I:569:ASN:O	1:I:570:THR:CG2	2.34	0.75
1:M:271:LEU:HD13	1:Q:324:LEU:HD22	1.66	0.75
1:A:297:ASN:HD22	1:A:298:PRO:N	1.85	0.75
1:B:387:ARG:NH2	1:D:348:LEU:CD2	2.41	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:569:ASN:O	1:B:570:THR:CG2	2.34	0.75
1:G:416:ILE:CG1	1:G:503:ILE:HD12	2.17	0.75
1:I:401:GLU:OE1	1:I:402:LYS:CG	2.33	0.75
1:I:416:ILE:CG1	1:I:503:ILE:HD12	2.17	0.75
1:J:352:ASN:HD22	1:J:586:GLN:H	1.33	0.75
1:J:411:PHE:CD1	1:J:418:ASP:CB	2.62	0.75
1:K:416:ILE:CG1	1:K:503:ILE:HD12	2.17	0.75
1:K:451:TYR:N	1:K:458:VAL:HG21	1.80	0.75
1:N:297:ASN:HD22	1:N:298:PRO:N	1.85	0.75
1:O:297:ASN:HD22	1:O:298:PRO:CD	1.99	0.75
1:Q:451:TYR:CD1	1:Q:457:ILE:HB	2.21	0.75
1:R:448:PRO:O	1:R:449:ARG:HG3	1.86	0.75
1:B:237:PRO:HD3	1:R:327:PRO:HD3	1.68	0.74
1:C:222:SER:HB2	1:S:230:LYS:CG	2.16	0.74
1:F:411:PHE:CD1	1:F:418:ASP:CB	2.62	0.74
1:F:451:TYR:CD1	1:F:457:ILE:HB	2.21	0.74
1:G:402:LYS:CD	1:G:511:PHE:CE2	2.69	0.74
1:H:297:ASN:HD22	1:H:298:PRO:N	1.85	0.74
1:J:297:ASN:HD22	1:J:298:PRO:N	1.85	0.74
1:L:416:ILE:CG1	1:L:503:ILE:HD12	2.17	0.74
1:M:297:ASN:HD22	1:M:298:PRO:N	1.85	0.74
1:N:416:ILE:CG1	1:N:503:ILE:HD12	2.17	0.74
1:O:352:ASN:HD22	1:O:586:GLN:H	1.33	0.74
1:O:451:TYR:CD1	1:O:457:ILE:HB	2.21	0.74
1:P:451:TYR:CD1	1:P:457:ILE:HB	2.21	0.74
1:T:425:ILE:HG12	1:T:499:PRO:HB3	1.67	0.74
1:B:297:ASN:HD22	1:B:298:PRO:N	1.85	0.74
1:C:230:LYS:CG	1:K:222:SER:HB2	2.16	0.74
1:E:352:ASN:HD22	1:E:586:GLN:H	1.33	0.74
1:E:569:ASN:O	1:E:570:THR:CG2	2.34	0.74
1:F:416:ILE:CG1	1:F:503:ILE:HD12	2.17	0.74
1:G:172:PHE:HB2	1:N:253:HIS:CE1	2.19	0.74
1:G:350:ILE:HA	1:G:357:ASP:HA	1.69	0.74
1:L:387:ARG:NH2	1:S:348:LEU:CD2	2.41	0.74
1:M:569:ASN:O	1:M:570:THR:CG2	2.34	0.74
1:N:448:PRO:O	1:N:449:ARG:HG3	1.85	0.74
1:B:352:ASN:HD22	1:B:586:GLN:H	1.33	0.74
1:B:402:LYS:CD	1:B:511:PHE:CE2	2.69	0.74
1:G:222:SER:HB2	1:N:230:LYS:CG	2.15	0.74
1:G:451:TYR:CA	1:G:458:VAL:CG2	2.36	0.74
1:G:569:ASN:O	1:G:570:THR:CG2	2.34	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:297:ASN:HD22	1:H:298:PRO:CD	1.99	0.74
1:K:352:ASN:HD22	1:K:586:GLN:H	1.33	0.74
1:L:297:ASN:HD22	1:L:298:PRO:N	1.85	0.74
1:M:451:TYR:CD1	1:M:457:ILE:HB	2.21	0.74
1:P:416:ILE:CG1	1:P:503:ILE:HD12	2.17	0.74
1:R:352:ASN:HD22	1:R:586:GLN:H	1.33	0.74
1:B:416:ILE:CG1	1:B:503:ILE:HD12	2.17	0.74
1:B:437:VAL:CG1	1:B:439:THR:N	2.38	0.74
1:D:297:ASN:HD22	1:D:298:PRO:N	1.85	0.74
1:E:395:ILE:HD13	1:E:395:ILE:H	1.49	0.74
1:G:297:ASN:HD22	1:G:298:PRO:CD	1.99	0.74
1:O:569:ASN:O	1:O:570:THR:CG2	2.34	0.74
1:P:360:ASP:HB3	1:P:568:LYS:HB3	1.67	0.74
1:S:297:ASN:HD22	1:S:298:PRO:CD	1.99	0.74
1:S:297:ASN:HD22	1:S:298:PRO:N	1.85	0.74
1:C:416:ILE:CG1	1:C:503:ILE:HD12	2.17	0.74
1:I:350:ILE:HA	1:I:357:ASP:HA	1.68	0.74
1:I:448:PRO:O	1:I:449:ARG:HG3	1.86	0.74
1:J:416:ILE:CG1	1:J:503:ILE:HD12	2.17	0.74
1:K:297:ASN:HD22	1:K:298:PRO:N	1.86	0.74
1:B:297:ASN:HD22	1:B:298:PRO:CD	1.99	0.74
1:E:222:SER:HB2	1:L:230:LYS:CG	2.16	0.74
1:I:451:TYR:CD1	1:I:457:ILE:HB	2.21	0.74
1:J:350:ILE:HA	1:J:357:ASP:HA	1.69	0.74
1:O:360:ASP:HB3	1:O:568:LYS:HB3	1.67	0.74
1:O:416:ILE:CG1	1:O:503:ILE:HD12	2.17	0.74
1:Q:297:ASN:HD22	1:Q:298:PRO:N	1.85	0.74
1:Q:427:SER:HG	1:Q:429:LEU:HD21	1.52	0.74
1:A:411:PHE:CD1	1:A:418:ASP:CB	2.62	0.74
1:B:275:LEU:CD1	1:F:275:LEU:CG	2.34	0.74
1:D:416:ILE:CG1	1:D:503:ILE:HD12	2.17	0.74
1:H:416:ILE:CG1	1:H:503:ILE:HD12	2.17	0.74
1:I:408:ALA:HB2	1:I:417:PRO:HG3	1.70	0.74
1:K:569:ASN:O	1:K:570:THR:CG2	2.34	0.74
1:R:451:TYR:CD1	1:R:457:ILE:HB	2.21	0.74
1:R:577:ILE:HG13	1:R:578:ARG:N	2.03	0.74
1:S:350:ILE:HA	1:S:357:ASP:HA	1.69	0.74
1:S:408:ALA:HB2	1:S:417:PRO:HG3	1.70	0.74
1:T:416:ILE:CG1	1:T:503:ILE:HD12	2.17	0.74
1:A:416:ILE:CG1	1:A:503:ILE:HD12	2.17	0.74
1:D:280:SER:HG	1:D:334:HIS:CD2	1.97	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:350:ILE:HA	1:F:357:ASP:HA	1.69	0.74
1:G:297:ASN:HD22	1:G:298:PRO:N	1.85	0.74
1:G:451:TYR:CD1	1:G:457:ILE:HB	2.21	0.74
1:I:297:ASN:HD22	1:I:298:PRO:CD	1.99	0.74
1:M:577:ILE:HG13	1:M:578:ARG:N	2.03	0.74
1:N:408:ALA:HB2	1:N:417:PRO:HG3	1.70	0.74
1:R:280:SER:HG	1:R:334:HIS:CD2	1.97	0.74
1:S:342:ILE:H	1:S:342:ILE:CD1	1.97	0.74
1:S:416:ILE:CG1	1:S:503:ILE:HD12	2.17	0.74
1:T:451:TYR:CD1	1:T:457:ILE:HB	2.21	0.74
1:F:297:ASN:HD22	1:F:298:PRO:N	1.86	0.74
1:H:350:ILE:HA	1:H:357:ASP:HA	1.69	0.74
1:J:439:THR:CB	1:J:457:ILE:HG12	2.18	0.74
1:K:350:ILE:HA	1:K:357:ASP:HA	1.68	0.74
1:O:297:ASN:HD22	1:O:298:PRO:N	1.85	0.74
1:O:577:ILE:HG13	1:O:578:ARG:N	2.03	0.74
1:A:350:ILE:HA	1:A:357:ASP:HA	1.69	0.73
1:E:439:THR:CB	1:E:457:ILE:HG12	2.18	0.73
1:I:352:ASN:HD22	1:I:586:GLN:H	1.33	0.73
1:K:237:PRO:HD3	1:N:327:PRO:HD3	1.68	0.73
1:M:251:TYR:CD1	1:Q:328:PRO:CB	2.58	0.73
1:M:275:LEU:CA	1:Q:275:LEU:HD12	2.14	0.73
1:Q:439:THR:CB	1:Q:457:ILE:HG12	2.18	0.73
1:R:280:SER:HG	1:R:334:HIS:CE1	1.99	0.73
1:E:350:ILE:HA	1:E:357:ASP:HA	1.69	0.73
1:G:577:ILE:HG13	1:G:578:ARG:N	2.03	0.73
1:K:251:TYR:CD1	1:N:328:PRO:CB	2.58	0.73
1:P:297:ASN:HD22	1:P:298:PRO:N	1.85	0.73
1:T:350:ILE:HA	1:T:357:ASP:HA	1.69	0.73
1:B:577:ILE:HG13	1:B:578:ARG:N	2.03	0.73
1:C:577:ILE:HG13	1:C:578:ARG:N	2.03	0.73
1:E:297:ASN:HD22	1:E:298:PRO:N	1.85	0.73
1:E:568:LYS:CE	1:E:581:ASP:OD1	2.37	0.73
1:M:416:ILE:CG1	1:M:503:ILE:HD12	2.17	0.73
1:P:439:THR:CB	1:P:457:ILE:HG12	2.18	0.73
1:Q:416:ILE:CG1	1:Q:503:ILE:HD12	2.17	0.73
1:R:297:ASN:HD22	1:R:298:PRO:N	1.85	0.73
1:T:568:LYS:CE	1:T:581:ASP:OD1	2.37	0.73
1:A:251:TYR:CD1	1:D:328:PRO:CB	2.58	0.73
1:B:165:GLU:CD	1:D:325:LEU:HB2	2.11	0.73
1:E:408:ALA:HB2	1:E:417:PRO:HG3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:280:SER:HG	1:H:334:HIS:CE1	1.97	0.73
1:I:568:LYS:CE	1:I:581:ASP:OD1	2.37	0.73
1:L:325:LEU:HB2	1:S:165:GLU:CD	2.11	0.73
1:P:568:LYS:CE	1:P:581:ASP:OD1	2.37	0.73
1:Q:352:ASN:HD22	1:Q:586:GLN:H	1.33	0.73
1:A:325:LEU:HB2	1:E:165:GLU:CD	2.11	0.73
1:C:297:ASN:HD22	1:C:298:PRO:N	1.85	0.73
1:C:408:ALA:HB2	1:C:417:PRO:HG3	1.70	0.73
1:E:219:PHE:CB	1:E:312:VAL:HA	2.19	0.73
1:F:408:ALA:HB2	1:F:417:PRO:HG3	1.70	0.73
1:H:219:PHE:CB	1:H:312:VAL:HA	2.19	0.73
1:H:259:ARG:CA	1:O:259:ARG:HH12	2.02	0.73
1:M:568:LYS:CE	1:M:581:ASP:OD1	2.37	0.73
1:A:292:TYR:CE2	1:B:311:THR:CG2	2.59	0.73
1:A:439:THR:CB	1:A:457:ILE:HG12	2.18	0.73
1:D:503:ILE:HD13	1:D:503:ILE:C	2.14	0.73
1:H:577:ILE:HG13	1:H:578:ARG:N	2.03	0.73
1:J:568:LYS:CE	1:J:581:ASP:OD1	2.37	0.73
1:K:577:ILE:HG13	1:K:578:ARG:N	2.03	0.73
1:L:439:THR:CB	1:L:457:ILE:HG12	2.18	0.73
1:N:352:ASN:HD22	1:N:586:GLN:H	1.33	0.73
1:Q:568:LYS:CE	1:Q:581:ASP:OD1	2.37	0.73
1:R:219:PHE:CB	1:R:312:VAL:HA	2.19	0.73
1:B:219:PHE:CB	1:B:312:VAL:HA	2.19	0.73
1:C:451:TYR:N	1:C:458:VAL:HG21	1.80	0.73
1:F:568:LYS:CE	1:F:581:ASP:OD1	2.37	0.73
1:L:480:LYS:HE3	1:S:575:TYR:CD1	2.24	0.73
1:L:577:ILE:HG13	1:L:578:ARG:N	2.03	0.73
1:P:350:ILE:HA	1:P:357:ASP:HA	1.69	0.73
1:T:577:ILE:HG13	1:T:578:ARG:N	2.03	0.73
1:B:259:ARG:HH12	1:Q:259:ARG:CA	2.02	0.73
1:B:480:LYS:HE3	1:D:575:TYR:CD1	2.24	0.73
1:D:311:THR:CG2	1:F:292:TYR:CE2	2.59	0.73
1:D:439:THR:CB	1:D:457:ILE:HG12	2.18	0.73
1:H:427:SER:HG	1:H:429:LEU:HD21	1.52	0.73
1:J:259:ARG:CA	1:P:259:ARG:HH12	2.02	0.73
1:J:577:ILE:HG13	1:J:578:ARG:N	2.03	0.73
1:L:350:ILE:HA	1:L:357:ASP:HA	1.69	0.73
1:L:575:TYR:CD1	1:S:480:LYS:HE3	2.24	0.73
1:N:259:ARG:CA	1:R:259:ARG:HH12	2.02	0.73
1:N:299:TYR:CE2	1:R:299:TYR:HE2	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:401:GLU:OE1	1:T:402:LYS:CG	2.33	0.73
1:B:350:ILE:HA	1:B:357:ASP:HA	1.68	0.73
1:C:439:THR:CB	1:C:457:ILE:HG12	2.18	0.73
1:F:165:GLU:CD	1:N:325:LEU:HB2	2.11	0.73
1:F:503:ILE:HD13	1:F:503:ILE:C	2.14	0.73
1:H:568:LYS:CE	1:H:581:ASP:OD1	2.37	0.73
1:I:259:ARG:HH12	1:M:259:ARG:CA	2.02	0.73
1:K:408:ALA:HB2	1:K:417:PRO:HG3	1.70	0.73
1:M:439:THR:CB	1:M:457:ILE:HG12	2.19	0.73
1:M:503:ILE:HD13	1:M:503:ILE:C	2.14	0.73
1:O:503:ILE:HD13	1:O:503:ILE:C	2.14	0.73
1:Q:408:ALA:HB2	1:Q:417:PRO:HG3	1.70	0.73
1:Q:575:TYR:CD1	1:R:480:LYS:HE3	2.24	0.73
1:R:568:LYS:CE	1:R:581:ASP:OD1	2.37	0.73
1:T:297:ASN:HD22	1:T:298:PRO:N	1.85	0.73
1:A:480:LYS:HE3	1:E:575:TYR:CD1	2.24	0.73
1:B:503:ILE:HD13	1:B:503:ILE:C	2.14	0.73
1:B:575:TYR:CD1	1:D:480:LYS:HE3	2.24	0.73
1:D:408:ALA:HB2	1:D:417:PRO:HG3	1.70	0.73
1:E:503:ILE:HD13	1:E:503:ILE:C	2.14	0.73
1:E:577:ILE:HG13	1:E:578:ARG:N	2.03	0.73
1:G:439:THR:CB	1:G:457:ILE:HG12	2.18	0.73
1:I:439:THR:CB	1:I:457:ILE:HG12	2.18	0.73
1:N:568:LYS:CE	1:N:581:ASP:OD1	2.37	0.73
1:P:259:ARG:CA	1:Q:259:ARG:HH12	2.02	0.73
1:R:408:ALA:HB2	1:R:417:PRO:HG3	1.70	0.73
1:S:219:PHE:CB	1:S:312:VAL:HA	2.19	0.73
1:B:328:PRO:CB	1:F:251:TYR:CD1	2.58	0.72
1:C:504:ASN:HB3	1:C:505:PRO:CD	2.12	0.72
1:D:219:PHE:CB	1:D:312:VAL:HA	2.19	0.72
1:D:331:MET:HE3	1:D:332:LEU:H	1.54	0.72
1:H:187:ILE:HG13	1:H:244:GLN:HG2	1.71	0.72
1:I:297:ASN:HD22	1:I:298:PRO:N	1.85	0.72
1:K:339:SER:HB2	1:K:647:TYR:HB2	1.71	0.72
1:P:401:GLU:OE1	1:P:402:LYS:CG	2.33	0.72
1:P:503:ILE:HD13	1:P:503:ILE:C	2.14	0.72
1:Q:480:LYS:HE3	1:R:575:TYR:CD1	2.24	0.72
1:S:568:LYS:CE	1:S:581:ASP:OD1	2.37	0.72
1:T:331:MET:HE3	1:T:332:LEU:H	1.54	0.72
1:A:259:ARG:HH12	1:B:259:ARG:CA	2.02	0.72
1:C:503:ILE:HD13	1:C:503:ILE:C	2.14	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:568:LYS:CE	1:C:581:ASP:OD1	2.37	0.72
1:D:568:LYS:CE	1:D:581:ASP:OD1	2.37	0.72
1:F:219:PHE:CB	1:F:312:VAL:HA	2.19	0.72
1:F:480:LYS:HE3	1:N:575:TYR:CD1	2.24	0.72
1:F:575:TYR:CD1	1:N:480:LYS:HE3	2.24	0.72
1:G:259:ARG:HH12	1:I:259:ARG:CA	2.02	0.72
1:J:408:ALA:HB2	1:J:417:PRO:HG3	1.70	0.72
1:N:577:ILE:HG13	1:N:578:ARG:N	2.03	0.72
1:Q:331:MET:HE3	1:Q:332:LEU:H	1.54	0.72
1:A:328:PRO:CB	1:L:251:TYR:CD1	2.58	0.72
1:A:568:LYS:CE	1:A:581:ASP:OD1	2.37	0.72
1:C:259:ARG:HH12	1:K:259:ARG:CA	2.02	0.72
1:D:259:ARG:HH12	1:S:259:ARG:CA	2.02	0.72
1:D:259:ARG:CA	1:F:259:ARG:HH12	2.02	0.72
1:E:259:ARG:HH12	1:O:259:ARG:CA	2.02	0.72
1:F:275:LEU:HD12	1:R:275:LEU:HA	1.66	0.72
1:G:331:MET:HE3	1:G:332:LEU:H	1.54	0.72
1:G:408:ALA:HB2	1:G:417:PRO:HG3	1.70	0.72
1:H:503:ILE:HD13	1:H:503:ILE:C	2.14	0.72
1:I:219:PHE:CB	1:I:312:VAL:HA	2.19	0.72
1:J:503:ILE:HD13	1:J:503:ILE:C	2.14	0.72
1:K:187:ILE:HG13	1:K:244:GLN:HG2	1.72	0.72
1:K:439:THR:CB	1:K:457:ILE:HG12	2.18	0.72
1:O:339:SER:HB2	1:O:647:TYR:HB2	1.71	0.72
1:P:219:PHE:CB	1:P:312:VAL:HA	2.19	0.72
1:R:339:SER:HB2	1:R:647:TYR:HB2	1.71	0.72
1:R:350:ILE:HA	1:R:357:ASP:HA	1.69	0.72
1:S:439:THR:CB	1:S:457:ILE:HG12	2.18	0.72
1:T:408:ALA:HB2	1:T:417:PRO:HG3	1.70	0.72
1:A:577:ILE:HG13	1:A:578:ARG:N	2.03	0.72
1:C:219:PHE:CB	1:C:312:VAL:HA	2.19	0.72
1:D:187:ILE:HG13	1:D:244:GLN:HG2	1.71	0.72
1:E:201:LEU:HD11	1:E:316:PRO:HB3	1.72	0.72
1:F:339:SER:HB2	1:F:647:TYR:HB2	1.72	0.72
1:M:275:LEU:HA	1:Q:275:LEU:HD12	1.66	0.72
1:M:331:MET:HE3	1:M:332:LEU:H	1.54	0.72
1:M:350:ILE:HA	1:M:357:ASP:HA	1.69	0.72
1:M:408:ALA:HB2	1:M:417:PRO:HG3	1.70	0.72
1:P:577:ILE:HG13	1:P:578:ARG:N	2.03	0.72
1:Q:339:SER:HB2	1:Q:647:TYR:HB2	1.72	0.72
1:R:187:ILE:HG13	1:R:244:GLN:HG2	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:331:MET:HE3	1:S:332:LEU:H	1.54	0.72
1:T:219:PHE:CB	1:T:312:VAL:HA	2.19	0.72
1:B:327:PRO:HD3	1:F:237:PRO:HD3	1.68	0.72
1:B:331:MET:HE3	1:B:332:LEU:H	1.54	0.72
1:B:568:LYS:CE	1:B:581:ASP:OD1	2.37	0.72
1:E:259:ARG:CA	1:L:259:ARG:HH12	2.02	0.72
1:F:439:THR:CB	1:F:457:ILE:HG12	2.18	0.72
1:G:568:LYS:CE	1:G:581:ASP:OD1	2.37	0.72
1:H:439:THR:CB	1:H:457:ILE:HG12	2.18	0.72
1:I:331:MET:HE3	1:I:332:LEU:H	1.54	0.72
1:K:219:PHE:CB	1:K:312:VAL:HA	2.19	0.72
1:L:259:ARG:CA	1:T:259:ARG:HH12	2.02	0.72
1:L:339:SER:HB2	1:L:647:TYR:HB2	1.72	0.72
1:L:568:LYS:CE	1:L:581:ASP:OD1	2.37	0.72
1:M:201:LEU:HD11	1:M:316:PRO:HB3	1.72	0.72
1:M:437:VAL:CG1	1:M:438:THR:N	2.34	0.72
1:O:408:ALA:HB2	1:O:417:PRO:HG3	1.70	0.72
1:O:568:LYS:CE	1:O:581:ASP:OD1	2.37	0.72
1:T:568:LYS:HE3	1:T:581:ASP:OD1	1.90	0.72
1:A:165:GLU:CD	1:E:325:LEU:HB2	2.11	0.72
1:D:451:TYR:CA	1:D:458:VAL:CG2	2.36	0.72
1:H:201:LEU:HD11	1:H:316:PRO:HB3	1.72	0.72
1:I:201:LEU:HD11	1:I:316:PRO:HB3	1.72	0.72
1:K:568:LYS:CE	1:K:581:ASP:OD1	2.37	0.72
1:P:331:MET:HE3	1:P:332:LEU:H	1.54	0.72
1:P:408:ALA:HB2	1:P:417:PRO:HG3	1.70	0.72
1:Q:325:LEU:HB2	1:R:165:GLU:CD	2.11	0.72
1:Q:451:TYR:CD1	1:Q:457:ILE:HA	2.25	0.72
1:R:439:THR:CB	1:R:457:ILE:HG12	2.18	0.72
1:S:187:ILE:HG13	1:S:244:GLN:HG2	1.72	0.72
1:C:339:SER:HB2	1:C:647:TYR:HB2	1.72	0.72
1:G:339:SER:HB2	1:G:647:TYR:HB2	1.72	0.72
1:I:187:ILE:HG13	1:I:244:GLN:HG2	1.72	0.72
1:K:201:LEU:HD11	1:K:316:PRO:HB3	1.72	0.72
1:L:219:PHE:CB	1:L:312:VAL:HA	2.19	0.72
1:L:408:ALA:HB2	1:L:417:PRO:HG3	1.70	0.72
1:O:439:THR:CB	1:O:457:ILE:HG12	2.18	0.72
1:Q:201:LEU:HD11	1:Q:316:PRO:HB3	1.72	0.72
1:S:503:ILE:HD13	1:S:503:ILE:C	2.14	0.72
1:A:408:ALA:HB2	1:A:417:PRO:HG3	1.70	0.72
1:A:503:ILE:HD13	1:A:503:ILE:C	2.14	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:259:ARG:CA	1:S:259:ARG:HH12	2.02	0.72
1:E:328:PRO:CB	1:J:251:TYR:CD1	2.58	0.72
1:E:331:MET:HE3	1:E:332:LEU:H	1.54	0.72
1:F:259:ARG:CA	1:K:259:ARG:HH12	2.02	0.72
1:H:568:LYS:HE3	1:H:581:ASP:OD1	1.90	0.72
1:J:219:PHE:CB	1:J:312:VAL:HA	2.19	0.72
1:L:503:ILE:HD13	1:L:503:ILE:C	2.14	0.72
1:N:219:PHE:CB	1:N:312:VAL:HA	2.19	0.72
1:R:201:LEU:HD11	1:R:316:PRO:HB3	1.72	0.72
1:R:451:TYR:CD1	1:R:457:ILE:HA	2.25	0.72
1:T:201:LEU:HD11	1:T:316:PRO:HB3	1.72	0.72
1:A:189:PHE:HD1	1:A:289:ILE:HB	1.55	0.72
1:A:275:LEU:HA	1:D:275:LEU:HD11	1.17	0.72
1:A:575:TYR:CD1	1:E:480:LYS:HE3	2.24	0.72
1:B:252:PRO:CD	1:R:328:PRO:CD	2.67	0.72
1:B:324:LEU:HD21	1:F:271:LEU:CB	2.20	0.72
1:B:439:THR:CB	1:B:457:ILE:HG12	2.18	0.72
1:C:187:ILE:HG13	1:C:244:GLN:HG2	1.72	0.72
1:C:411:PHE:CD1	1:C:418:ASP:CB	2.62	0.72
1:D:411:PHE:CD1	1:D:418:ASP:CB	2.62	0.72
1:F:327:PRO:HD3	1:R:237:PRO:HD3	1.68	0.72
1:H:259:ARG:HH12	1:T:259:ARG:CA	2.02	0.72
1:H:402:LYS:HZ2	1:H:511:PHE:HE2	1.32	0.72
1:H:408:ALA:HB2	1:H:417:PRO:HG3	1.70	0.72
1:K:363:ILE:HG23	1:K:636:ILE:HD12	1.72	0.72
1:L:187:ILE:HG13	1:L:244:GLN:HG2	1.71	0.72
1:M:187:ILE:HG13	1:M:244:GLN:HG2	1.72	0.72
1:N:331:MET:HE3	1:N:332:LEU:H	1.54	0.72
1:R:503:ILE:HD13	1:R:503:ILE:C	2.14	0.72
1:S:201:LEU:HD11	1:S:316:PRO:HB3	1.72	0.72
1:S:568:LYS:HE3	1:S:581:ASP:OD1	1.90	0.72
1:T:451:TYR:CD1	1:T:457:ILE:HA	2.25	0.72
1:A:187:ILE:HG13	1:A:244:GLN:HG2	1.72	0.72
1:A:259:ARG:CA	1:J:259:ARG:HH12	2.02	0.72
1:B:451:TYR:CD1	1:B:457:ILE:HA	2.25	0.72
1:E:601:LEU:CD1	1:E:650:ILE:CG1	2.62	0.72
1:F:331:MET:HE3	1:F:332:LEU:H	1.54	0.72
1:F:568:LYS:HE3	1:F:581:ASP:OD1	1.90	0.72
1:H:363:ILE:HG23	1:H:636:ILE:HD12	1.72	0.72
1:J:201:LEU:HD11	1:J:316:PRO:HB3	1.72	0.72
1:J:280:SER:HG	1:J:334:HIS:CE1	1.98	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:451:TYR:CD1	1:J:457:ILE:HA	2.25	0.72
1:K:451:TYR:CD1	1:K:457:ILE:HA	2.25	0.72
1:K:503:ILE:HD13	1:K:503:ILE:C	2.14	0.72
1:M:451:TYR:CD1	1:M:457:ILE:HA	2.25	0.72
1:M:568:LYS:HE3	1:M:581:ASP:OD1	1.90	0.72
1:N:189:PHE:HD1	1:N:289:ILE:HB	1.55	0.72
1:N:411:PHE:CD1	1:N:418:ASP:CB	2.62	0.72
1:Q:471:ALA:CB	1:Q:527:LEU:HB3	2.20	0.72
1:T:339:SER:HB2	1:T:647:TYR:HB2	1.72	0.72
1:T:439:THR:CB	1:T:457:ILE:HG12	2.18	0.72
1:A:363:ILE:HG23	1:A:636:ILE:HD12	1.72	0.71
1:D:568:LYS:HE3	1:D:581:ASP:OD1	1.90	0.71
1:G:187:ILE:HG13	1:G:244:GLN:HG2	1.71	0.71
1:G:311:THR:CG2	1:N:292:TYR:CE2	2.59	0.71
1:I:568:LYS:HE3	1:I:581:ASP:OD1	1.90	0.71
1:J:189:PHE:HD1	1:J:289:ILE:HB	1.55	0.71
1:M:259:ARG:HH12	1:R:259:ARG:CA	2.02	0.71
1:M:271:LEU:CB	1:Q:324:LEU:HD21	2.20	0.71
1:N:187:ILE:HG13	1:N:244:GLN:HG2	1.72	0.71
1:O:219:PHE:CB	1:O:312:VAL:HA	2.19	0.71
1:O:331:MET:HE3	1:O:332:LEU:H	1.54	0.71
1:O:568:LYS:HE3	1:O:581:ASP:OD1	1.90	0.71
1:Q:411:PHE:CD1	1:Q:418:ASP:CB	2.62	0.71
1:Q:503:ILE:HD13	1:Q:503:ILE:C	2.14	0.71
1:Q:568:LYS:HE3	1:Q:581:ASP:OD1	1.90	0.71
1:R:363:ILE:HG23	1:R:636:ILE:HD12	1.72	0.71
1:A:252:PRO:CD	1:D:328:PRO:CD	2.67	0.71
1:A:471:ALA:CB	1:A:527:LEU:HB3	2.20	0.71
1:B:328:PRO:CD	1:F:252:PRO:CD	2.67	0.71
1:D:189:PHE:HD1	1:D:289:ILE:HB	1.55	0.71
1:D:339:SER:HB2	1:D:647:TYR:HB2	1.72	0.71
1:F:187:ILE:HG13	1:F:244:GLN:HG2	1.71	0.71
1:H:490:ALA:HB1	1:H:498:GLU:O	1.91	0.71
1:I:363:ILE:HG23	1:I:636:ILE:HD12	1.72	0.71
1:I:503:ILE:HD13	1:I:503:ILE:C	2.14	0.71
1:K:189:PHE:HD1	1:K:289:ILE:HB	1.55	0.71
1:M:471:ALA:CB	1:M:527:LEU:HB3	2.20	0.71
1:N:503:ILE:HD13	1:N:503:ILE:C	2.14	0.71
1:O:620:ASP:HB2	1:O:657:LEU:HB3	1.72	0.71
1:Q:219:PHE:CB	1:Q:312:VAL:HA	2.19	0.71
1:Q:363:ILE:HG23	1:Q:636:ILE:HD12	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:620:ASP:HB2	1:R:657:LEU:HB3	1.72	0.71
1:C:331:MET:HE3	1:C:332:LEU:H	1.54	0.71
1:D:451:TYR:CD1	1:D:457:ILE:HA	2.25	0.71
1:F:328:PRO:HB2	1:R:251:TYR:HD1	1.56	0.71
1:G:219:PHE:CB	1:G:312:VAL:HA	2.19	0.71
1:H:189:PHE:HD1	1:H:289:ILE:HB	1.55	0.71
1:I:411:PHE:CD1	1:I:418:ASP:CB	2.62	0.71
1:K:620:ASP:HB2	1:K:657:LEU:HB3	1.73	0.71
1:L:201:LEU:HD11	1:L:316:PRO:HB3	1.72	0.71
1:L:363:ILE:HG23	1:L:636:ILE:HD12	1.72	0.71
1:L:601:LEU:CD1	1:L:650:ILE:CG1	2.62	0.71
1:M:620:ASP:HB2	1:M:657:LEU:HB3	1.73	0.71
1:N:201:LEU:HD11	1:N:316:PRO:HB3	1.72	0.71
1:N:439:THR:CB	1:N:457:ILE:HG12	2.18	0.71
1:T:352:ASN:HD22	1:T:586:GLN:H	1.33	0.71
1:T:363:ILE:HG23	1:T:636:ILE:HD12	1.72	0.71
1:A:490:ALA:HB1	1:A:498:GLU:O	1.91	0.71
1:A:568:LYS:HE3	1:A:581:ASP:OD1	1.90	0.71
1:B:251:TYR:HD1	1:R:328:PRO:CB	1.75	0.71
1:B:402:LYS:HZ2	1:B:511:PHE:HE2	1.29	0.71
1:B:490:ALA:HB1	1:B:498:GLU:O	1.91	0.71
1:B:568:LYS:HE3	1:B:581:ASP:OD1	1.90	0.71
1:E:471:ALA:CB	1:E:527:LEU:HB3	2.20	0.71
1:F:439:THR:CG2	1:F:457:ILE:HG12	2.21	0.71
1:F:577:ILE:HG13	1:F:578:ARG:N	2.03	0.71
1:I:339:SER:HB2	1:I:647:TYR:HB2	1.72	0.71
1:J:331:MET:HE3	1:J:332:LEU:H	1.54	0.71
1:K:568:LYS:HE3	1:K:581:ASP:OD1	1.90	0.71
1:L:189:PHE:HD1	1:L:289:ILE:HB	1.55	0.71
1:M:189:PHE:HD1	1:M:289:ILE:HB	1.55	0.71
1:M:237:PRO:HD3	1:Q:327:PRO:HD3	1.68	0.71
1:O:451:TYR:CD1	1:O:457:ILE:HA	2.25	0.71
1:O:471:ALA:CB	1:O:527:LEU:HB3	2.20	0.71
1:R:331:MET:HE3	1:R:332:LEU:H	1.54	0.71
1:S:189:PHE:HD1	1:S:289:ILE:HB	1.55	0.71
1:S:328:PRO:CB	1:T:251:TYR:CD1	2.58	0.71
1:S:487:ILE:CG2	1:S:510:VAL:HG22	2.20	0.71
1:A:331:MET:HE3	1:A:332:LEU:H	1.54	0.71
1:C:363:ILE:HG23	1:C:636:ILE:HD12	1.72	0.71
1:D:201:LEU:HD11	1:D:316:PRO:HB3	1.72	0.71
1:E:568:LYS:HE3	1:E:581:ASP:OD1	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:471:ALA:CB	1:G:527:LEU:HB3	2.20	0.71
1:G:490:ALA:HB1	1:G:498:GLU:O	1.91	0.71
1:G:503:ILE:HD13	1:G:503:ILE:C	2.14	0.71
1:J:363:ILE:HG23	1:J:636:ILE:HD12	1.72	0.71
1:J:487:ILE:CG2	1:J:510:VAL:HG22	2.20	0.71
1:J:620:ASP:HB2	1:J:657:LEU:HB3	1.73	0.71
1:L:620:ASP:HB2	1:L:657:LEU:HB3	1.73	0.71
1:M:451:TYR:CA	1:M:458:VAL:CG2	2.36	0.71
1:P:363:ILE:HG23	1:P:636:ILE:HD12	1.72	0.71
1:P:439:THR:CG2	1:P:457:ILE:HG12	2.21	0.71
1:S:490:ALA:HB1	1:S:498:GLU:O	1.91	0.71
1:B:408:ALA:HB2	1:B:417:PRO:HG3	1.70	0.71
1:F:189:PHE:HD1	1:F:289:ILE:HB	1.55	0.71
1:G:201:LEU:HD11	1:G:316:PRO:HB3	1.72	0.71
1:J:339:SER:HB2	1:J:647:TYR:HB2	1.72	0.71
1:J:568:LYS:HE3	1:J:581:ASP:OD1	1.90	0.71
1:Q:187:ILE:HG13	1:Q:244:GLN:HG2	1.72	0.71
1:T:503:ILE:HD13	1:T:503:ILE:C	2.14	0.71
1:A:328:PRO:CD	1:L:252:PRO:CD	2.67	0.71
1:B:471:ALA:CB	1:B:527:LEU:HB3	2.20	0.71
1:C:439:THR:CG2	1:C:457:ILE:HG12	2.21	0.71
1:C:487:ILE:CG2	1:C:510:VAL:HG22	2.20	0.71
1:C:490:ALA:HB1	1:C:498:GLU:O	1.91	0.71
1:D:175:SER:HB3	1:D:311:THR:HA	1.73	0.71
1:D:271:LEU:CB	1:L:324:LEU:HD21	2.20	0.71
1:D:529:LEU:C	1:D:530:LEU:HD12	2.16	0.71
1:E:334:HIS:HB3	1:E:600:LEU:HD11	1.73	0.71
1:E:451:TYR:CD1	1:E:457:ILE:HA	2.25	0.71
1:F:620:ASP:HB2	1:F:657:LEU:HB3	1.73	0.71
1:I:471:ALA:CB	1:I:527:LEU:HB3	2.20	0.71
1:I:490:ALA:HB1	1:I:498:GLU:O	1.91	0.71
1:J:490:ALA:HB1	1:J:498:GLU:O	1.91	0.71
1:N:471:ALA:CB	1:N:527:LEU:HB3	2.20	0.71
1:P:339:SER:HB2	1:P:647:TYR:HB2	1.72	0.71
1:R:402:LYS:HZ2	1:R:511:PHE:HE2	1.38	0.71
1:R:439:THR:CG2	1:R:457:ILE:HG12	2.21	0.71
1:R:471:ALA:CB	1:R:527:LEU:HB3	2.20	0.71
1:R:490:ALA:HB1	1:R:498:GLU:O	1.91	0.71
1:R:568:LYS:HE3	1:R:581:ASP:OD1	1.90	0.71
1:A:328:PRO:CB	1:L:251:TYR:HD1	1.75	0.71
1:E:327:PRO:HD3	1:J:237:PRO:HD3	1.68	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:175:SER:HB3	1:H:311:THR:HA	1.73	0.71
1:H:331:MET:HE3	1:H:332:LEU:H	1.54	0.71
1:H:339:SER:HB2	1:H:647:TYR:HB2	1.72	0.71
1:H:620:ASP:HB2	1:H:657:LEU:HB3	1.73	0.71
1:J:471:ALA:CB	1:J:527:LEU:HB3	2.20	0.71
1:K:334:HIS:HB3	1:K:600:LEU:HD11	1.73	0.71
1:L:451:TYR:CD1	1:L:457:ILE:HA	2.25	0.71
1:M:487:ILE:CG2	1:M:510:VAL:HG22	2.20	0.71
1:M:490:ALA:HB1	1:M:498:GLU:O	1.91	0.71
1:O:490:ALA:HB1	1:O:498:GLU:O	1.91	0.71
1:P:451:TYR:CD1	1:P:457:ILE:HA	2.25	0.71
1:P:529:LEU:C	1:P:530:LEU:HD12	2.16	0.71
1:S:620:ASP:HB2	1:S:657:LEU:HB3	1.73	0.71
1:A:487:ILE:CG2	1:A:510:VAL:HG22	2.21	0.71
1:B:201:LEU:HD22	1:B:320:PHE:HE2	1.56	0.71
1:G:451:TYR:CD1	1:G:457:ILE:HA	2.25	0.71
1:H:451:TYR:CD1	1:H:457:ILE:HA	2.25	0.71
1:H:471:ALA:CB	1:H:527:LEU:HB3	2.20	0.71
1:I:439:THR:CG2	1:I:457:ILE:HG12	2.21	0.71
1:K:331:MET:HE3	1:K:332:LEU:H	1.54	0.71
1:M:529:LEU:C	1:M:530:LEU:HD12	2.16	0.71
1:N:339:SER:HB2	1:N:647:TYR:HB2	1.72	0.71
1:N:439:THR:CG2	1:N:457:ILE:HG12	2.21	0.71
1:N:568:LYS:HE3	1:N:581:ASP:OD1	1.90	0.71
1:O:175:SER:HB3	1:O:311:THR:HA	1.73	0.71
1:P:201:LEU:HD11	1:P:316:PRO:HB3	1.72	0.71
1:P:490:ALA:HB1	1:P:498:GLU:O	1.91	0.71
1:Q:201:LEU:HD22	1:Q:320:PHE:HE2	1.56	0.71
1:Q:334:HIS:HB3	1:Q:600:LEU:HD11	1.73	0.71
1:S:363:ILE:HG23	1:S:636:ILE:HD12	1.72	0.71
1:T:187:ILE:HG13	1:T:244:GLN:HG2	1.72	0.71
1:T:471:ALA:CB	1:T:527:LEU:HB3	2.20	0.71
1:A:275:LEU:HA	1:D:275:LEU:HD12	1.66	0.71
1:A:339:SER:HB2	1:A:647:TYR:HB2	1.72	0.71
1:A:439:THR:CG2	1:A:457:ILE:HG12	2.21	0.71
1:A:529:LEU:C	1:A:530:LEU:HD12	2.16	0.71
1:B:189:PHE:HD1	1:B:289:ILE:HB	1.55	0.71
1:B:328:PRO:CD	1:F:252:PRO:HD2	2.06	0.71
1:B:339:SER:HB2	1:B:647:TYR:HB2	1.72	0.71
1:C:334:HIS:HB3	1:C:600:LEU:HD11	1.73	0.71
1:C:471:ALA:CB	1:C:527:LEU:HB3	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:363:ILE:HG23	1:D:636:ILE:HD12	1.72	0.71
1:G:259:ARG:CA	1:N:259:ARG:HH12	2.02	0.71
1:G:402:LYS:HZ2	1:G:511:PHE:HE2	1.39	0.71
1:K:251:TYR:HD1	1:N:328:PRO:CB	1.75	0.71
1:K:439:THR:CG2	1:K:457:ILE:HG12	2.21	0.71
1:L:331:MET:HE3	1:L:332:LEU:H	1.54	0.71
1:L:348:LEU:CD2	1:S:387:ARG:NH2	2.41	0.71
1:L:471:ALA:CB	1:L:527:LEU:HB3	2.20	0.71
1:N:451:TYR:CD1	1:N:457:ILE:HA	2.25	0.71
1:N:620:ASP:HB2	1:N:657:LEU:HB3	1.73	0.71
1:P:568:LYS:HE3	1:P:581:ASP:OD1	1.90	0.71
1:Q:490:ALA:HB1	1:Q:498:GLU:O	1.91	0.71
1:R:175:SER:HB3	1:R:311:THR:HA	1.73	0.71
1:S:339:SER:HB2	1:S:647:TYR:HB2	1.72	0.71
1:T:175:SER:HB3	1:T:311:THR:HA	1.73	0.71
1:A:219:PHE:CB	1:A:312:VAL:HA	2.19	0.70
1:A:324:LEU:HD21	1:L:271:LEU:CB	2.20	0.70
1:B:334:HIS:HB3	1:B:600:LEU:HD11	1.73	0.70
1:D:201:LEU:HD22	1:D:320:PHE:HE2	1.56	0.70
1:D:439:THR:CG2	1:D:457:ILE:HG12	2.21	0.70
1:D:490:ALA:HB1	1:D:498:GLU:O	1.91	0.70
1:E:490:ALA:HB1	1:E:498:GLU:O	1.91	0.70
1:G:487:ILE:CG2	1:G:510:VAL:HG22	2.20	0.70
1:M:219:PHE:CB	1:M:312:VAL:HA	2.19	0.70
1:N:201:LEU:HD22	1:N:320:PHE:HE2	1.56	0.70
1:O:201:LEU:HD11	1:O:316:PRO:HB3	1.72	0.70
1:S:324:LEU:CD1	1:T:271:LEU:CB	2.69	0.70
1:T:487:ILE:CG2	1:T:510:VAL:HG22	2.20	0.70
1:A:330:SER:CB	1:L:237:PRO:HD2	2.22	0.70
1:C:201:LEU:HD11	1:C:316:PRO:HB3	1.72	0.70
1:C:451:TYR:CD1	1:C:457:ILE:HA	2.25	0.70
1:C:529:LEU:C	1:C:530:LEU:HD12	2.16	0.70
1:E:175:SER:HB3	1:E:311:THR:HA	1.73	0.70
1:E:328:PRO:HB2	1:J:251:TYR:HD1	1.56	0.70
1:E:529:LEU:C	1:E:530:LEU:HD12	2.16	0.70
1:E:620:ASP:HB2	1:E:657:LEU:HB3	1.73	0.70
1:F:328:PRO:CB	1:R:251:TYR:CD1	2.58	0.70
1:G:280:SER:HG	1:G:334:HIS:CE1	1.99	0.70
1:G:439:THR:CG2	1:G:457:ILE:HG12	2.21	0.70
1:J:187:ILE:HG13	1:J:244:GLN:HG2	1.72	0.70
1:J:334:HIS:HB3	1:J:600:LEU:HD11	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:529:LEU:C	1:J:530:LEU:HD12	2.16	0.70
1:K:237:PRO:HD2	1:N:330:SER:CB	2.21	0.70
1:M:175:SER:HB3	1:M:311:THR:HA	1.73	0.70
1:M:251:TYR:HD1	1:Q:328:PRO:HB2	1.56	0.70
1:M:252:PRO:CD	1:Q:328:PRO:CD	2.67	0.70
1:P:187:ILE:HG13	1:P:244:GLN:HG2	1.71	0.70
1:Q:620:ASP:HB2	1:Q:657:LEU:HB3	1.72	0.70
1:A:251:TYR:HD1	1:D:328:PRO:HB2	1.56	0.70
1:A:334:HIS:HB3	1:A:600:LEU:HD11	1.73	0.70
1:B:187:ILE:HG13	1:B:244:GLN:HG2	1.72	0.70
1:B:271:LEU:CB	1:R:324:LEU:CD1	2.69	0.70
1:B:529:LEU:C	1:B:530:LEU:HD12	2.16	0.70
1:C:189:PHE:HD1	1:C:289:ILE:HB	1.55	0.70
1:D:471:ALA:CB	1:D:527:LEU:HB3	2.20	0.70
1:E:569:ASN:O	1:E:570:THR:HG23	1.92	0.70
1:F:451:TYR:CD1	1:F:457:ILE:HA	2.25	0.70
1:G:568:LYS:HE3	1:G:581:ASP:OD1	1.90	0.70
1:H:439:THR:CG2	1:H:457:ILE:HG12	2.21	0.70
1:J:439:THR:CG2	1:J:457:ILE:HG12	2.21	0.70
1:K:490:ALA:HB1	1:K:498:GLU:O	1.90	0.70
1:N:578:ARG:O	1:N:579:SER:OG	2.10	0.70
1:O:439:THR:CG2	1:O:457:ILE:HG12	2.21	0.70
1:P:189:PHE:HD1	1:P:289:ILE:HB	1.56	0.70
1:R:189:PHE:HD1	1:R:289:ILE:HB	1.55	0.70
1:S:334:HIS:HB3	1:S:600:LEU:HD11	1.73	0.70
1:T:490:ALA:HB1	1:T:498:GLU:O	1.91	0.70
1:B:237:PRO:HD2	1:R:330:SER:CB	2.21	0.70
1:C:175:SER:HB3	1:C:311:THR:HA	1.73	0.70
1:E:324:LEU:HD21	1:J:271:LEU:CB	2.20	0.70
1:F:529:LEU:C	1:F:530:LEU:HD12	2.16	0.70
1:I:334:HIS:HB3	1:I:600:LEU:HD11	1.73	0.70
1:N:490:ALA:HB1	1:N:498:GLU:O	1.91	0.70
1:O:529:LEU:C	1:O:530:LEU:HD12	2.16	0.70
1:S:275:LEU:HD12	1:T:275:LEU:CA	2.14	0.70
1:B:324:LEU:CD1	1:F:271:LEU:CB	2.69	0.70
1:C:568:LYS:HE3	1:C:581:ASP:OD1	1.90	0.70
1:F:201:LEU:HD11	1:F:316:PRO:HB3	1.72	0.70
1:I:189:PHE:HD1	1:I:289:ILE:HB	1.55	0.70
1:J:175:SER:HB3	1:J:311:THR:HA	1.73	0.70
1:L:165:GLU:CD	1:S:325:LEU:HB2	2.11	0.70
1:L:427:SER:HG	1:L:429:LEU:HD21	1.52	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:487:ILE:CG2	1:L:510:VAL:HG22	2.20	0.70
1:M:237:PRO:HD2	1:Q:330:SER:CB	2.22	0.70
1:O:187:ILE:HG13	1:O:244:GLN:HG2	1.71	0.70
1:O:189:PHE:HD1	1:O:289:ILE:HB	1.55	0.70
1:P:569:ASN:O	1:P:570:THR:HG23	1.92	0.70
1:Q:189:PHE:HD1	1:Q:289:ILE:HB	1.55	0.70
1:S:471:ALA:CB	1:S:527:LEU:HB3	2.20	0.70
1:T:201:LEU:HD22	1:T:320:PHE:HE2	1.56	0.70
1:A:237:PRO:HD2	1:D:330:SER:CB	2.21	0.70
1:C:201:LEU:HD22	1:C:320:PHE:HE2	1.56	0.70
1:D:271:LEU:CB	1:L:324:LEU:CD1	2.69	0.70
1:D:578:ARG:O	1:D:579:SER:OG	2.10	0.70
1:E:363:ILE:HG23	1:E:636:ILE:HD12	1.72	0.70
1:F:175:SER:HB3	1:F:311:THR:HA	1.73	0.70
1:F:451:TYR:CA	1:F:458:VAL:CG2	2.36	0.70
1:G:363:ILE:HG23	1:G:636:ILE:HD12	1.72	0.70
1:G:376:PHE:HB2	1:G:625:SER:O	1.92	0.70
1:G:569:ASN:O	1:G:570:THR:HG23	1.92	0.70
1:G:620:ASP:HB2	1:G:657:LEU:HB3	1.73	0.70
1:I:201:LEU:HD22	1:I:320:PHE:HE2	1.56	0.70
1:Q:529:LEU:C	1:Q:530:LEU:HD12	2.16	0.70
1:T:439:THR:CG2	1:T:457:ILE:HG12	2.21	0.70
1:A:201:LEU:HD22	1:A:320:PHE:HE2	1.56	0.70
1:B:201:LEU:HD11	1:B:316:PRO:HB3	1.72	0.70
1:B:363:ILE:HG23	1:B:636:ILE:HD12	1.72	0.70
1:B:437:VAL:CG1	1:B:438:THR:N	2.34	0.70
1:C:620:ASP:HB2	1:C:657:LEU:HB3	1.73	0.70
1:E:201:LEU:HD22	1:E:320:PHE:HE2	1.56	0.70
1:F:363:ILE:HG23	1:F:636:ILE:HD12	1.72	0.70
1:F:569:ASN:O	1:F:570:THR:HG23	1.92	0.70
1:I:620:ASP:HB2	1:I:657:LEU:HB3	1.73	0.70
1:K:175:SER:HB3	1:K:311:THR:HA	1.73	0.70
1:L:568:LYS:HE3	1:L:581:ASP:OD1	1.90	0.70
1:N:529:LEU:C	1:N:530:LEU:HD12	2.16	0.70
1:P:471:ALA:CB	1:P:527:LEU:HB3	2.20	0.70
1:P:578:ARG:O	1:P:579:SER:OG	2.10	0.70
1:S:175:SER:HB3	1:S:311:THR:HA	1.73	0.70
1:S:439:THR:CG2	1:S:457:ILE:HG12	2.21	0.70
1:S:451:TYR:CD1	1:S:457:ILE:HA	2.25	0.70
1:T:376:PHE:HB2	1:T:625:SER:O	1.92	0.70
1:A:175:SER:HB3	1:A:311:THR:HA	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:201:LEU:HD11	1:A:316:PRO:HB3	1.72	0.70
1:A:271:LEU:CB	1:D:324:LEU:HD21	2.20	0.70
1:A:451:TYR:CD1	1:A:457:ILE:HA	2.25	0.70
1:A:569:ASN:O	1:A:570:THR:HG23	1.92	0.70
1:B:439:THR:CG2	1:B:457:ILE:HG12	2.21	0.70
1:E:187:ILE:HG13	1:E:244:GLN:HG2	1.71	0.70
1:E:189:PHE:HD1	1:E:289:ILE:HB	1.55	0.70
1:F:201:LEU:HD22	1:F:320:PHE:HE2	1.56	0.70
1:F:490:ALA:HB1	1:F:498:GLU:O	1.91	0.70
1:G:529:LEU:C	1:G:530:LEU:HD12	2.16	0.70
1:I:175:SER:HB3	1:I:311:THR:HA	1.73	0.70
1:I:569:ASN:O	1:I:570:THR:HG23	1.92	0.70
1:J:201:LEU:HD22	1:J:320:PHE:HE2	1.56	0.70
1:K:487:ILE:CG2	1:K:510:VAL:HG22	2.20	0.70
1:L:578:ARG:O	1:L:579:SER:OG	2.10	0.70
1:M:477:GLY:O	1:M:478:ASP:OD1	2.10	0.70
1:P:402:LYS:HZ2	1:P:511:PHE:HE2	1.34	0.70
1:S:529:LEU:C	1:S:530:LEU:HD12	2.16	0.70
1:T:569:ASN:O	1:T:570:THR:HG23	1.92	0.70
1:T:620:ASP:HB2	1:T:657:LEU:HB3	1.73	0.70
1:A:324:LEU:CD1	1:L:271:LEU:CB	2.69	0.70
1:B:175:SER:HB3	1:B:311:THR:HA	1.73	0.70
1:B:477:GLY:O	1:B:478:ASP:OD1	2.10	0.70
1:B:620:ASP:HB2	1:B:657:LEU:HB3	1.73	0.70
1:C:569:ASN:O	1:C:570:THR:HG23	1.92	0.70
1:D:334:HIS:HB3	1:D:600:LEU:HD11	1.73	0.70
1:E:504:ASN:CB	1:E:505:PRO:HD2	2.19	0.70
1:F:376:PHE:HB2	1:F:625:SER:O	1.92	0.70
1:G:201:LEU:HD22	1:G:320:PHE:HE2	1.56	0.70
1:H:578:ARG:O	1:H:579:SER:OG	2.10	0.70
1:I:397:GLN:HB2	1:I:520:VAL:O	1.92	0.70
1:J:504:ASN:CB	1:J:505:PRO:HD2	2.19	0.70
1:K:271:LEU:CB	1:N:324:LEU:CD1	2.69	0.70
1:L:280:SER:HG	1:L:334:HIS:CE1	2.00	0.70
1:M:201:LEU:HD22	1:M:320:PHE:HE2	1.56	0.70
1:N:311:THR:CG2	1:R:292:TYR:CE2	2.59	0.70
1:N:363:ILE:HG23	1:N:636:ILE:HD12	1.72	0.70
1:P:201:LEU:HD22	1:P:320:PHE:HE2	1.56	0.70
1:R:201:LEU:HD22	1:R:320:PHE:HE2	1.56	0.70
1:S:330:SER:CB	1:T:237:PRO:HD2	2.22	0.70
1:S:477:GLY:O	1:S:478:ASP:OD1	2.10	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:578:ARG:O	1:S:579:SER:OG	2.10	0.70
1:A:271:LEU:CB	1:D:324:LEU:CD1	2.69	0.70
1:D:487:ILE:CG2	1:D:510:VAL:HG22	2.20	0.70
1:E:439:THR:CG2	1:E:457:ILE:HG12	2.21	0.70
1:F:471:ALA:CB	1:F:527:LEU:HB3	2.20	0.70
1:H:201:LEU:HD22	1:H:320:PHE:HE2	1.56	0.70
1:H:376:PHE:HB2	1:H:625:SER:O	1.92	0.70
1:H:569:ASN:O	1:H:570:THR:HG23	1.92	0.70
1:J:569:ASN:O	1:J:570:THR:HG23	1.92	0.70
1:K:578:ARG:O	1:K:579:SER:OG	2.10	0.70
1:M:251:TYR:HD1	1:Q:328:PRO:CB	1.75	0.70
1:P:334:HIS:HB3	1:P:600:LEU:HD11	1.73	0.70
1:Q:439:THR:CG2	1:Q:457:ILE:HG12	2.21	0.70
1:Q:450:GLU:O	1:Q:451:TYR:HB2	1.92	0.70
1:Q:569:ASN:O	1:Q:570:THR:HG23	1.92	0.70
1:Q:577:ILE:HG13	1:Q:578:ARG:N	2.03	0.70
1:T:221:ILE:CD1	1:T:258:ALA:HA	2.22	0.70
1:T:334:HIS:HB3	1:T:600:LEU:HD11	1.73	0.70
1:T:477:GLY:O	1:T:478:ASP:OD1	2.10	0.70
1:A:620:ASP:HB2	1:A:657:LEU:HB3	1.73	0.69
1:B:397:GLN:HB2	1:B:520:VAL:O	1.92	0.69
1:B:450:GLU:O	1:B:451:TYR:HB2	1.92	0.69
1:D:376:PHE:HB2	1:D:625:SER:O	1.92	0.69
1:E:339:SER:HB2	1:E:647:TYR:HB2	1.72	0.69
1:E:450:GLU:O	1:E:451:TYR:HB2	1.92	0.69
1:H:397:GLN:HB2	1:H:520:VAL:O	1.92	0.69
1:H:529:LEU:C	1:H:530:LEU:HD12	2.16	0.69
1:I:451:TYR:CD1	1:I:457:ILE:HA	2.25	0.69
1:I:529:LEU:C	1:I:530:LEU:HD12	2.16	0.69
1:K:471:ALA:CB	1:K:527:LEU:HB3	2.20	0.69
1:L:490:ALA:HB1	1:L:498:GLU:O	1.91	0.69
1:L:529:LEU:C	1:L:530:LEU:HD12	2.16	0.69
1:M:363:ILE:HG23	1:M:636:ILE:HD12	1.72	0.69
1:M:439:THR:CG2	1:M:457:ILE:HG12	2.21	0.69
1:N:334:HIS:HB3	1:N:600:LEU:HD11	1.73	0.69
1:O:363:ILE:HG23	1:O:636:ILE:HD12	1.72	0.69
1:P:504:ASN:CB	1:P:505:PRO:HD2	2.19	0.69
1:R:376:PHE:HB2	1:R:625:SER:O	1.92	0.69
1:R:487:ILE:CG2	1:R:510:VAL:HG22	2.20	0.69
1:R:529:LEU:C	1:R:530:LEU:HD12	2.16	0.69
1:R:569:ASN:O	1:R:570:THR:HG23	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:373:HIS:HA	1:T:586:GLN:OE1	1.92	0.69
1:B:578:ARG:O	1:B:579:SER:OG	2.10	0.69
1:C:376:PHE:HB2	1:C:625:SER:O	1.92	0.69
1:E:487:ILE:CG2	1:E:510:VAL:HG22	2.20	0.69
1:F:334:HIS:HB3	1:F:600:LEU:HD11	1.73	0.69
1:G:373:HIS:HA	1:G:586:GLN:OE1	1.93	0.69
1:G:451:TYR:N	1:G:458:VAL:HG21	1.80	0.69
1:G:477:GLY:O	1:G:478:ASP:OD1	2.10	0.69
1:J:221:ILE:CD1	1:J:258:ALA:HA	2.22	0.69
1:J:353:ARG:H	1:J:584:ASN:ND2	1.91	0.69
1:L:439:THR:CG2	1:L:457:ILE:HG12	2.21	0.69
1:M:569:ASN:O	1:M:570:THR:HG23	1.92	0.69
1:N:353:ARG:H	1:N:584:ASN:ND2	1.91	0.69
1:N:477:GLY:O	1:N:478:ASP:OD1	2.10	0.69
1:T:189:PHE:HD1	1:T:289:ILE:HB	1.55	0.69
1:B:221:ILE:CD1	1:B:258:ALA:HA	2.22	0.69
1:D:252:PRO:CD	1:L:328:PRO:CD	2.67	0.69
1:E:324:LEU:CD1	1:J:271:LEU:CB	2.69	0.69
1:K:271:LEU:HB3	1:N:324:LEU:CG	2.22	0.69
1:K:397:GLN:HB2	1:K:520:VAL:O	1.93	0.69
1:L:201:LEU:HD22	1:L:320:PHE:HE2	1.56	0.69
1:M:271:LEU:CB	1:Q:324:LEU:CD1	2.69	0.69
1:M:339:SER:HB2	1:M:647:TYR:HB2	1.72	0.69
1:O:376:PHE:HB2	1:O:625:SER:O	1.92	0.69
1:P:376:PHE:HB2	1:P:625:SER:O	1.92	0.69
1:Q:175:SER:HB3	1:Q:311:THR:HA	1.73	0.69
1:Q:480:LYS:NZ	1:R:575:TYR:CA	2.53	0.69
1:S:324:LEU:CG	1:T:271:LEU:HB3	2.22	0.69
1:T:529:LEU:C	1:T:530:LEU:HD12	2.16	0.69
1:A:450:GLU:O	1:A:451:TYR:HB2	1.92	0.69
1:B:328:PRO:HG3	1:D:200:TYR:OH	1.92	0.69
1:C:280:SER:HG	1:C:334:HIS:CE1	1.99	0.69
1:G:175:SER:HB3	1:G:311:THR:HA	1.73	0.69
1:G:189:PHE:HD1	1:G:289:ILE:HB	1.55	0.69
1:K:569:ASN:O	1:K:570:THR:HG23	1.92	0.69
1:M:578:ARG:O	1:M:579:SER:OG	2.10	0.69
1:N:175:SER:HB3	1:N:311:THR:HA	1.73	0.69
1:O:334:HIS:HB3	1:O:600:LEU:HD11	1.73	0.69
1:S:328:PRO:CB	1:T:251:TYR:HD1	1.75	0.69
1:A:353:ARG:H	1:A:584:ASN:ND2	1.90	0.69
1:B:252:PRO:HD2	1:R:328:PRO:CD	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:353:ARG:H	1:C:584:ASN:ND2	1.91	0.69
1:D:237:PRO:HD2	1:L:330:SER:CB	2.22	0.69
1:D:620:ASP:HB2	1:D:657:LEU:HB3	1.73	0.69
1:J:376:PHE:HB2	1:J:625:SER:O	1.92	0.69
1:K:252:PRO:CD	1:N:328:PRO:CD	2.66	0.69
1:L:477:GLY:O	1:L:478:ASP:OD1	2.10	0.69
1:M:252:PRO:HD2	1:Q:328:PRO:CD	2.06	0.69
1:M:376:PHE:HB2	1:M:625:SER:O	1.92	0.69
1:P:221:ILE:CD1	1:P:258:ALA:HA	2.22	0.69
1:R:353:ARG:H	1:R:584:ASN:ND2	1.91	0.69
1:R:373:HIS:HA	1:R:586:GLN:OE1	1.92	0.69
1:S:328:PRO:HB2	1:T:251:TYR:HD1	1.56	0.69
1:B:324:LEU:CG	1:F:271:LEU:HB3	2.23	0.69
1:B:487:ILE:CG2	1:B:510:VAL:HG22	2.20	0.69
1:D:271:LEU:HB3	1:L:324:LEU:CG	2.23	0.69
1:D:275:LEU:CG	1:L:275:LEU:CD1	2.34	0.69
1:D:353:ARG:H	1:D:584:ASN:ND2	1.90	0.69
1:E:373:HIS:HA	1:E:586:GLN:OE1	1.92	0.69
1:E:376:PHE:HB2	1:E:625:SER:O	1.92	0.69
1:E:578:ARG:O	1:E:579:SER:OG	2.10	0.69
1:F:450:GLU:O	1:F:451:TYR:HB2	1.92	0.69
1:G:334:HIS:HB3	1:G:600:LEU:HD11	1.73	0.69
1:H:450:GLU:O	1:H:451:TYR:HB2	1.92	0.69
1:K:529:LEU:C	1:K:530:LEU:HD12	2.16	0.69
1:L:221:ILE:CD1	1:L:258:ALA:HA	2.22	0.69
1:N:569:ASN:O	1:N:570:THR:HG23	1.92	0.69
1:O:353:ARG:H	1:O:584:ASN:ND2	1.90	0.69
1:P:373:HIS:HA	1:P:586:GLN:OE1	1.92	0.69
1:P:450:GLU:O	1:P:451:TYR:HB2	1.92	0.69
1:Q:578:ARG:O	1:Q:579:SER:OG	2.10	0.69
1:R:578:ARG:O	1:R:579:SER:OG	2.10	0.69
1:T:397:GLN:HB2	1:T:520:VAL:O	1.92	0.69
1:B:251:TYR:HD1	1:R:328:PRO:HB2	1.56	0.69
1:B:353:ARG:H	1:B:584:ASN:ND2	1.91	0.69
1:B:373:HIS:HA	1:B:586:GLN:OE1	1.93	0.69
1:C:450:GLU:O	1:C:451:TYR:HB2	1.92	0.69
1:D:221:ILE:CD1	1:D:258:ALA:HA	2.22	0.69
1:F:397:GLN:HB2	1:F:520:VAL:O	1.92	0.69
1:H:487:ILE:CG2	1:H:510:VAL:HG22	2.20	0.69
1:I:578:ARG:O	1:I:579:SER:OG	2.10	0.69
1:K:373:HIS:HA	1:K:586:GLN:OE1	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:175:SER:HB3	1:L:311:THR:HA	1.73	0.69
1:O:201:LEU:HD22	1:O:320:PHE:HE2	1.56	0.69
1:O:373:HIS:HA	1:O:586:GLN:OE1	1.92	0.69
1:O:504:ASN:CB	1:O:505:PRO:HD2	2.19	0.69
1:P:175:SER:HB3	1:P:311:THR:HA	1.73	0.69
1:P:620:ASP:HB2	1:P:657:LEU:HB3	1.73	0.69
1:Q:165:GLU:CD	1:R:325:LEU:HB2	2.11	0.69
1:R:334:HIS:HB3	1:R:600:LEU:HD11	1.73	0.69
1:S:373:HIS:HA	1:S:586:GLN:OE1	1.93	0.69
1:A:328:PRO:HB2	1:L:251:TYR:HD1	1.56	0.69
1:A:397:GLN:HB2	1:A:520:VAL:O	1.93	0.69
1:A:477:GLY:O	1:A:478:ASP:OD1	2.10	0.69
1:B:271:LEU:HB3	1:R:324:LEU:CG	2.23	0.69
1:B:330:SER:CB	1:F:237:PRO:HD2	2.22	0.69
1:C:373:HIS:HA	1:C:586:GLN:OE1	1.92	0.69
1:D:346:SER:HB2	1:D:643:LEU:HB2	1.75	0.69
1:D:373:HIS:HA	1:D:586:GLN:OE1	1.92	0.69
1:D:477:GLY:O	1:D:478:ASP:OD1	2.10	0.69
1:D:569:ASN:O	1:D:570:THR:HG23	1.92	0.69
1:E:221:ILE:CD1	1:E:258:ALA:HA	2.22	0.69
1:F:324:LEU:CD1	1:R:271:LEU:CB	2.69	0.69
1:F:575:TYR:CA	1:N:480:LYS:NZ	2.52	0.69
1:H:334:HIS:HB3	1:H:600:LEU:HD11	1.73	0.69
1:I:477:GLY:O	1:I:478:ASP:OD1	2.10	0.69
1:J:346:SER:HB2	1:J:643:LEU:HB2	1.75	0.69
1:L:373:HIS:HA	1:L:586:GLN:OE1	1.92	0.69
1:L:376:PHE:HB2	1:L:625:SER:O	1.92	0.69
1:L:569:ASN:O	1:L:570:THR:HG23	1.92	0.69
1:M:470:GLY:H	1:M:530:LEU:HD13	1.58	0.69
1:N:470:GLY:H	1:N:530:LEU:HD13	1.58	0.69
1:O:569:ASN:O	1:O:570:THR:HG23	1.92	0.69
1:P:431:PRO:HB3	1:P:511:PHE:CZ	2.28	0.69
1:Q:221:ILE:CD1	1:Q:258:ALA:HA	2.22	0.69
1:R:346:SER:HB2	1:R:643:LEU:HB2	1.75	0.69
1:R:397:GLN:HB2	1:R:520:VAL:O	1.92	0.69
1:S:221:ILE:CD1	1:S:258:ALA:HA	2.22	0.69
1:S:353:ARG:H	1:S:584:ASN:ND2	1.90	0.69
1:S:376:PHE:HB2	1:S:625:SER:O	1.92	0.69
1:S:397:GLN:HB2	1:S:520:VAL:O	1.92	0.69
1:S:431:PRO:HB3	1:S:511:PHE:CZ	2.28	0.69
1:T:353:ARG:H	1:T:584:ASN:ND2	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:601:LEU:CD1	1:A:650:ILE:CG1	2.62	0.69
1:B:346:SER:HB2	1:B:643:LEU:HB2	1.75	0.69
1:B:470:GLY:H	1:B:530:LEU:HD13	1.58	0.69
1:B:569:ASN:O	1:B:570:THR:HG23	1.92	0.69
1:C:221:ILE:CD1	1:C:258:ALA:HA	2.22	0.69
1:E:346:SER:HB2	1:E:643:LEU:HB2	1.75	0.69
1:E:353:ARG:H	1:E:584:ASN:ND2	1.90	0.69
1:F:328:PRO:CD	1:R:252:PRO:CD	2.67	0.69
1:F:330:SER:CB	1:R:237:PRO:HD2	2.22	0.69
1:F:477:GLY:O	1:F:478:ASP:OD1	2.10	0.69
1:I:376:PHE:HB2	1:I:625:SER:O	1.92	0.69
1:J:450:GLU:O	1:J:451:TYR:HB2	1.92	0.69
1:K:201:LEU:HD22	1:K:320:PHE:HE2	1.56	0.69
1:L:328:PRO:HG3	1:S:200:TYR:OH	1.92	0.69
1:L:334:HIS:HB3	1:L:600:LEU:HD11	1.73	0.69
1:M:373:HIS:HA	1:M:586:GLN:OE1	1.92	0.69
1:N:397:GLN:HB2	1:N:520:VAL:O	1.92	0.69
1:P:477:GLY:O	1:P:478:ASP:OD1	2.10	0.69
1:Q:376:PHE:HB2	1:Q:625:SER:O	1.92	0.69
1:Q:397:GLN:HB2	1:Q:520:VAL:O	1.92	0.69
1:R:287:LEU:CD1	1:R:288:VAL:N	2.56	0.69
1:S:201:LEU:HD22	1:S:320:PHE:HE2	1.56	0.69
1:S:569:ASN:O	1:S:570:THR:HG23	1.92	0.69
1:D:397:GLN:HB2	1:D:520:VAL:O	1.93	0.69
1:F:578:ARG:O	1:F:579:SER:OG	2.10	0.69
1:H:373:HIS:HA	1:H:586:GLN:OE1	1.93	0.69
1:H:504:ASN:CB	1:H:505:PRO:HD2	2.19	0.69
1:I:346:SER:HB2	1:I:643:LEU:HB2	1.75	0.69
1:N:487:ILE:CG2	1:N:510:VAL:HG22	2.20	0.69
1:O:397:GLN:HB2	1:O:520:VAL:O	1.92	0.69
1:S:327:PRO:HD3	1:T:237:PRO:HD3	1.68	0.69
1:T:346:SER:HB2	1:T:643:LEU:HB2	1.75	0.69
1:A:470:GLY:H	1:A:530:LEU:HD13	1.58	0.68
1:C:477:GLY:O	1:C:478:ASP:OD1	2.10	0.68
1:E:328:PRO:CB	1:J:251:TYR:HD1	1.75	0.68
1:E:330:SER:CB	1:J:237:PRO:HD2	2.22	0.68
1:E:397:GLN:HB2	1:E:520:VAL:O	1.92	0.68
1:I:450:GLU:O	1:I:451:TYR:HB2	1.92	0.68
1:I:577:ILE:HG13	1:I:578:ARG:N	2.03	0.68
1:M:221:ILE:CD1	1:M:258:ALA:HA	2.22	0.68
1:M:431:PRO:HB3	1:M:511:PHE:CZ	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:346:SER:HB2	1:N:643:LEU:HB2	1.75	0.68
1:Q:346:SER:HB2	1:Q:643:LEU:HB2	1.75	0.68
1:Q:477:GLY:O	1:Q:478:ASP:OD1	2.10	0.68
1:Q:487:ILE:CG2	1:Q:510:VAL:HG22	2.20	0.68
1:S:470:GLY:H	1:S:530:LEU:HD13	1.58	0.68
1:A:373:HIS:HA	1:A:586:GLN:OE1	1.92	0.68
1:B:271:LEU:CB	1:R:324:LEU:HD21	2.20	0.68
1:B:480:LYS:NZ	1:D:575:TYR:CA	2.52	0.68
1:E:477:GLY:O	1:E:478:ASP:OD1	2.10	0.68
1:F:324:LEU:HD21	1:R:271:LEU:CB	2.20	0.68
1:F:353:ARG:H	1:F:584:ASN:ND2	1.90	0.68
1:G:346:SER:HB2	1:G:643:LEU:HB2	1.75	0.68
1:H:221:ILE:CD1	1:H:258:ALA:HA	2.22	0.68
1:H:431:PRO:HB3	1:H:511:PHE:CZ	2.28	0.68
1:I:221:ILE:CD1	1:I:258:ALA:HA	2.22	0.68
1:J:470:GLY:H	1:J:530:LEU:HD13	1.58	0.68
1:K:221:ILE:CD1	1:K:258:ALA:HA	2.22	0.68
1:K:376:PHE:HB2	1:K:625:SER:O	1.92	0.68
1:M:353:ARG:H	1:M:584:ASN:ND2	1.90	0.68
1:M:397:GLN:HB2	1:M:520:VAL:O	1.92	0.68
1:N:450:GLU:O	1:N:451:TYR:HB2	1.92	0.68
1:O:346:SER:HB2	1:O:643:LEU:HB2	1.75	0.68
1:Q:373:HIS:HA	1:Q:586:GLN:OE1	1.92	0.68
1:S:402:LYS:HZ2	1:S:511:PHE:HE2	1.41	0.68
1:A:271:LEU:HB3	1:D:324:LEU:CG	2.23	0.68
1:A:376:PHE:HB2	1:A:625:SER:O	1.92	0.68
1:A:578:ARG:O	1:A:579:SER:OG	2.10	0.68
1:F:200:TYR:OH	1:N:328:PRO:HG3	1.92	0.68
1:F:221:ILE:CD1	1:F:258:ALA:HA	2.22	0.68
1:F:328:PRO:HG3	1:N:200:TYR:OH	1.92	0.68
1:F:470:GLY:H	1:F:530:LEU:HD13	1.58	0.68
1:H:477:GLY:O	1:H:478:ASP:OD1	2.10	0.68
1:I:373:HIS:HA	1:I:586:GLN:OE1	1.92	0.68
1:N:221:ILE:CD1	1:N:258:ALA:HA	2.22	0.68
1:N:373:HIS:HA	1:N:586:GLN:OE1	1.92	0.68
1:R:477:GLY:O	1:R:478:ASP:OD1	2.10	0.68
1:S:328:PRO:CD	1:T:252:PRO:CD	2.67	0.68
1:F:474:ARG:HB2	1:F:524:ASP:C	2.19	0.68
1:G:397:GLN:HB2	1:G:520:VAL:O	1.92	0.68
1:H:353:ARG:H	1:H:584:ASN:ND2	1.91	0.68
1:I:353:ARG:H	1:I:584:ASN:ND2	1.90	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:397:GLN:HB2	1:J:520:VAL:O	1.93	0.68
1:K:353:ARG:H	1:K:584:ASN:ND2	1.90	0.68
1:L:450:GLU:O	1:L:451:TYR:HB2	1.92	0.68
1:M:271:LEU:HB3	1:Q:324:LEU:CG	2.23	0.68
1:N:376:PHE:HB2	1:N:625:SER:O	1.92	0.68
1:O:477:GLY:O	1:O:478:ASP:OD1	2.10	0.68
1:P:470:GLY:H	1:P:530:LEU:HD13	1.58	0.68
1:T:578:ARG:O	1:T:579:SER:OG	2.10	0.68
1:A:324:LEU:CG	1:L:271:LEU:HB3	2.23	0.68
1:A:328:PRO:HG3	1:E:200:TYR:OH	1.92	0.68
1:A:474:ARG:HB2	1:A:524:ASP:C	2.19	0.68
1:B:328:PRO:HB2	1:F:251:TYR:HD1	1.56	0.68
1:C:474:ARG:HB2	1:C:524:ASP:C	2.19	0.68
1:G:353:ARG:H	1:G:584:ASN:ND2	1.90	0.68
1:G:431:PRO:HB3	1:G:511:PHE:CZ	2.28	0.68
1:K:477:GLY:O	1:K:478:ASP:OD1	2.10	0.68
1:L:287:LEU:CD1	1:L:288:VAL:N	2.56	0.68
1:L:397:GLN:HB2	1:L:520:VAL:O	1.92	0.68
1:L:470:GLY:H	1:L:530:LEU:HD13	1.58	0.68
1:M:334:HIS:HB3	1:M:600:LEU:HD11	1.73	0.68
1:O:221:ILE:CD1	1:O:258:ALA:HA	2.22	0.68
1:O:450:GLU:O	1:O:451:TYR:HB2	1.92	0.68
1:P:346:SER:HB2	1:P:643:LEU:HB2	1.75	0.68
1:P:474:ARG:HB2	1:P:524:ASP:C	2.19	0.68
1:R:450:GLU:O	1:R:451:TYR:HB2	1.92	0.68
1:S:287:LEU:CD1	1:S:288:VAL:N	2.56	0.68
1:A:311:THR:CG2	1:J:292:TYR:CE2	2.60	0.68
1:B:474:ARG:HB2	1:B:524:ASP:C	2.19	0.68
1:E:324:LEU:CG	1:J:271:LEU:HB3	2.23	0.68
1:E:431:PRO:HB3	1:E:511:PHE:CZ	2.28	0.68
1:J:431:PRO:HB3	1:J:511:PHE:CZ	2.28	0.68
1:J:477:GLY:O	1:J:478:ASP:OD1	2.10	0.68
1:K:450:GLU:O	1:K:451:TYR:HB2	1.92	0.68
1:K:470:GLY:H	1:K:530:LEU:HD13	1.58	0.68
1:L:353:ARG:H	1:L:584:ASN:ND2	1.91	0.68
1:O:470:GLY:H	1:O:530:LEU:HD13	1.58	0.68
1:Q:431:PRO:HB3	1:Q:511:PHE:CZ	2.28	0.68
1:R:221:ILE:CD1	1:R:258:ALA:HA	2.22	0.68
1:S:275:LEU:HD12	1:T:275:LEU:HA	1.66	0.68
1:T:470:GLY:H	1:T:530:LEU:HD13	1.58	0.68
1:B:376:PHE:HB2	1:B:625:SER:O	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:397:GLN:HB2	1:C:520:VAL:O	1.93	0.68
1:C:402:LYS:HZ2	1:C:511:PHE:HE2	1.41	0.68
1:C:470:GLY:H	1:C:530:LEU:HD13	1.58	0.68
1:E:328:PRO:CD	1:J:252:PRO:CD	2.67	0.68
1:F:373:HIS:HA	1:F:586:GLN:OE1	1.92	0.68
1:I:431:PRO:HB3	1:I:511:PHE:CZ	2.28	0.68
1:K:431:PRO:HB3	1:K:511:PHE:CZ	2.28	0.68
1:N:474:ARG:HB2	1:N:524:ASP:C	2.19	0.68
1:S:353:ARG:H	1:S:584:ASN:HD21	1.42	0.68
1:S:577:ILE:HG13	1:S:578:ARG:N	2.03	0.68
1:B:327:PRO:CD	1:F:237:PRO:CG	2.54	0.68
1:B:353:ARG:H	1:B:584:ASN:HD21	1.42	0.68
1:B:575:TYR:CA	1:D:480:LYS:HZ1	1.84	0.68
1:F:487:ILE:CG2	1:F:510:VAL:HG22	2.20	0.68
1:G:450:GLU:O	1:G:451:TYR:HB2	1.92	0.68
1:I:356:THR:OG1	1:I:569:ASN:CG	2.37	0.68
1:L:356:THR:OG1	1:L:569:ASN:CG	2.37	0.68
1:L:463:PHE:HB2	1:L:466:MET:HG3	1.76	0.68
1:M:275:LEU:CG	1:Q:275:LEU:CD1	2.34	0.68
1:O:280:SER:HG	1:O:334:HIS:CE1	2.00	0.68
1:P:353:ARG:H	1:P:584:ASN:ND2	1.91	0.68
1:Q:328:PRO:HG3	1:R:200:TYR:OH	1.93	0.68
1:Q:474:ARG:HB2	1:Q:524:ASP:C	2.19	0.68
1:S:474:ARG:HB2	1:S:524:ASP:C	2.19	0.68
1:T:356:THR:OG1	1:T:569:ASN:CG	2.37	0.68
1:A:327:PRO:HD3	1:L:237:PRO:HD3	1.68	0.68
1:E:356:THR:OG1	1:E:569:ASN:CG	2.37	0.68
1:F:346:SER:HB2	1:F:643:LEU:HB2	1.75	0.68
1:F:387:ARG:NH2	1:N:348:LEU:CD2	2.40	0.68
1:G:221:ILE:CD1	1:G:258:ALA:HA	2.22	0.68
1:G:578:ARG:O	1:G:579:SER:OG	2.10	0.68
1:H:470:GLY:H	1:H:530:LEU:HD13	1.58	0.68
1:I:474:ARG:HB2	1:I:524:ASP:C	2.19	0.68
1:J:287:LEU:CD1	1:J:288:VAL:N	2.56	0.68
1:J:474:ARG:HB2	1:J:524:ASP:C	2.19	0.68
1:L:480:LYS:NZ	1:S:575:TYR:CA	2.52	0.68
1:M:251:TYR:HD1	1:Q:328:PRO:C	1.60	0.68
1:P:397:GLN:HB2	1:P:520:VAL:O	1.93	0.68
1:Q:353:ARG:H	1:Q:584:ASN:ND2	1.90	0.68
1:S:324:LEU:HD21	1:T:271:LEU:CB	2.20	0.68
1:A:221:ILE:CD1	1:A:258:ALA:HA	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:299:TYR:CZ	1:K:299:TYR:CE2	2.82	0.68
1:C:463:PHE:HB2	1:C:466:MET:HG3	1.76	0.68
1:D:356:THR:OG1	1:D:569:ASN:CG	2.37	0.68
1:D:431:PRO:HB3	1:D:511:PHE:CZ	2.28	0.68
1:J:342:ILE:HD12	1:J:342:ILE:N	2.09	0.68
1:J:463:PHE:HB2	1:J:466:MET:HG3	1.76	0.68
1:L:342:ILE:HD12	1:L:342:ILE:N	2.09	0.68
1:L:474:ARG:HB2	1:L:524:ASP:C	2.19	0.68
1:L:504:ASN:CB	1:L:505:PRO:HD2	2.19	0.68
1:M:280:SER:HG	1:M:334:HIS:CE1	1.98	0.68
1:N:437:VAL:CG1	1:N:438:THR:N	2.34	0.68
1:O:451:TYR:CA	1:O:458:VAL:CG2	2.36	0.68
1:P:353:ARG:H	1:P:584:ASN:HD21	1.42	0.68
1:R:437:VAL:CG1	1:R:438:THR:N	2.34	0.68
1:S:463:PHE:HB2	1:S:466:MET:HG3	1.76	0.68
1:T:450:GLU:O	1:T:451:TYR:HB2	1.92	0.68
1:A:299:TYR:HE2	1:B:299:TYR:HE2	1.42	0.67
1:D:342:ILE:HD12	1:D:342:ILE:N	2.09	0.67
1:H:342:ILE:HD12	1:H:342:ILE:N	2.09	0.67
1:I:463:PHE:HB2	1:I:466:MET:HG3	1.76	0.67
1:J:356:THR:OG1	1:J:569:ASN:CG	2.37	0.67
1:J:373:HIS:HA	1:J:586:GLN:OE1	1.92	0.67
1:O:342:ILE:HD12	1:O:342:ILE:N	2.09	0.67
1:Q:342:ILE:HD12	1:Q:342:ILE:N	2.09	0.67
1:S:451:TYR:CD1	1:S:457:ILE:CB	2.77	0.67
1:T:342:ILE:HD12	1:T:342:ILE:N	2.09	0.67
1:T:431:PRO:HB3	1:T:511:PHE:CZ	2.28	0.67
1:B:299:TYR:CZ	1:Q:299:TYR:CE2	2.82	0.67
1:B:356:THR:OG1	1:B:569:ASN:CG	2.37	0.67
1:B:431:PRO:HB3	1:B:511:PHE:CZ	2.28	0.67
1:C:346:SER:HB2	1:C:643:LEU:HB2	1.75	0.67
1:D:299:TYR:CZ	1:S:299:TYR:CE2	2.83	0.67
1:D:470:GLY:H	1:D:530:LEU:HD13	1.58	0.67
1:F:324:LEU:CG	1:R:271:LEU:HB3	2.22	0.67
1:F:431:PRO:HB3	1:F:511:PHE:CZ	2.28	0.67
1:G:299:TYR:CZ	1:I:299:TYR:CE2	2.82	0.67
1:G:470:GLY:H	1:G:530:LEU:HD13	1.58	0.67
1:H:299:TYR:CZ	1:T:299:TYR:CE2	2.82	0.67
1:K:342:ILE:HD12	1:K:342:ILE:N	2.09	0.67
1:N:299:TYR:CE2	1:R:299:TYR:CZ	2.82	0.67
1:P:487:ILE:CG2	1:P:510:VAL:HG22	2.20	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:431:PRO:HB3	1:R:511:PHE:CZ	2.28	0.67
1:S:437:VAL:CG1	1:S:438:THR:N	2.34	0.67
1:T:402:LYS:HZ2	1:T:511:PHE:HE2	1.39	0.67
1:A:342:ILE:HD12	1:A:342:ILE:N	2.09	0.67
1:A:431:PRO:HB3	1:A:511:PHE:CZ	2.28	0.67
1:A:437:VAL:CG1	1:A:438:THR:N	2.34	0.67
1:D:353:ARG:H	1:D:584:ASN:HD21	1.42	0.67
1:D:450:GLU:O	1:D:451:TYR:HB2	1.92	0.67
1:D:474:ARG:HB2	1:D:524:ASP:C	2.19	0.67
1:E:470:GLY:H	1:E:530:LEU:HD13	1.58	0.67
1:H:287:LEU:CD1	1:H:288:VAL:N	2.56	0.67
1:H:353:ARG:H	1:H:584:ASN:HD21	1.42	0.67
1:I:487:ILE:CG2	1:I:510:VAL:HG22	2.20	0.67
1:L:299:TYR:CE2	1:T:299:TYR:CZ	2.82	0.67
1:L:431:PRO:HB3	1:L:511:PHE:CZ	2.28	0.67
1:O:431:PRO:HB3	1:O:511:PHE:CZ	2.28	0.67
1:O:463:PHE:HB2	1:O:466:MET:HG3	1.76	0.67
1:P:451:TYR:CD1	1:P:457:ILE:CB	2.77	0.67
1:R:356:THR:OG1	1:R:569:ASN:CG	2.37	0.67
1:R:463:PHE:HB2	1:R:466:MET:HG3	1.76	0.67
1:S:346:SER:HB2	1:S:643:LEU:HB2	1.75	0.67
1:A:356:THR:OG1	1:A:569:ASN:CG	2.37	0.67
1:B:569:ASN:C	1:B:570:THR:HG23	2.20	0.67
1:D:299:TYR:CE2	1:F:299:TYR:CZ	2.82	0.67
1:E:401:GLU:CD	1:E:402:LYS:H	2.03	0.67
1:E:463:PHE:HB2	1:E:466:MET:HG3	1.76	0.67
1:F:342:ILE:HD12	1:F:342:ILE:N	2.09	0.67
1:G:356:THR:OG1	1:G:569:ASN:CG	2.37	0.67
1:M:346:SER:HB2	1:M:643:LEU:HB2	1.75	0.67
1:M:450:GLU:O	1:M:451:TYR:HB2	1.92	0.67
1:N:353:ARG:H	1:N:584:ASN:HD21	1.42	0.67
1:O:578:ARG:O	1:O:579:SER:OG	2.10	0.67
1:P:342:ILE:HD12	1:P:342:ILE:N	2.09	0.67
1:Q:356:THR:OG1	1:Q:569:ASN:CG	2.37	0.67
1:A:275:LEU:HD12	1:L:275:LEU:HA	1.66	0.67
1:E:474:ARG:HB2	1:E:524:ASP:C	2.19	0.67
1:F:325:LEU:HB2	1:N:165:GLU:CD	2.11	0.67
1:G:474:ARG:HB2	1:G:524:ASP:C	2.19	0.67
1:K:356:THR:OG1	1:K:569:ASN:CG	2.37	0.67
1:K:474:ARG:HB2	1:K:524:ASP:C	2.19	0.67
1:M:299:TYR:CZ	1:R:299:TYR:CE2	2.83	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:356:THR:OG1	1:N:569:ASN:CG	2.37	0.67
1:N:463:PHE:HB2	1:N:466:MET:HG3	1.76	0.67
1:O:353:ARG:H	1:O:584:ASN:HD21	1.42	0.67
1:O:474:ARG:HB2	1:O:524:ASP:C	2.19	0.67
1:P:287:LEU:CD1	1:P:288:VAL:N	2.56	0.67
1:R:474:ARG:HB2	1:R:524:ASP:C	2.19	0.67
1:S:356:THR:OG1	1:S:569:ASN:CG	2.37	0.67
1:A:299:TYR:CZ	1:B:299:TYR:CE2	2.83	0.67
1:B:200:TYR:OH	1:D:328:PRO:HG3	1.92	0.67
1:C:299:TYR:HE2	1:K:299:TYR:HE2	1.42	0.67
1:E:299:TYR:HE2	1:L:299:TYR:HE2	1.43	0.67
1:E:474:ARG:HA	1:E:525:VAL:HG23	1.77	0.67
1:H:569:ASN:C	1:H:570:THR:HG23	2.20	0.67
1:I:299:TYR:CZ	1:M:299:TYR:CE2	2.83	0.67
1:K:346:SER:HB2	1:K:643:LEU:HB2	1.75	0.67
1:K:569:ASN:C	1:K:570:THR:HG23	2.20	0.67
1:N:569:ASN:C	1:N:570:THR:HG23	2.20	0.67
1:Q:451:TYR:CD1	1:Q:457:ILE:CB	2.77	0.67
1:Q:463:PHE:HB2	1:Q:466:MET:HG3	1.76	0.67
1:R:569:ASN:C	1:R:570:THR:HG23	2.20	0.67
1:S:280:SER:HG	1:S:334:HIS:CE1	2.00	0.67
1:T:451:TYR:CD1	1:T:457:ILE:CB	2.77	0.67
1:T:463:PHE:HB2	1:T:466:MET:HG3	1.76	0.67
1:A:328:PRO:C	1:L:251:TYR:HD1	1.60	0.67
1:B:260:GLN:CG	1:Q:261:VAL:HG11	2.25	0.67
1:B:299:TYR:HE2	1:Q:299:TYR:HE2	1.42	0.67
1:B:463:PHE:HB2	1:B:466:MET:HG3	1.76	0.67
1:E:299:TYR:CZ	1:O:299:TYR:CE2	2.82	0.67
1:L:346:SER:HB2	1:L:643:LEU:HB2	1.75	0.67
1:N:431:PRO:HB3	1:N:511:PHE:CZ	2.28	0.67
1:P:439:THR:HG1	1:P:457:ILE:CG1	1.98	0.67
1:P:463:PHE:HB2	1:P:466:MET:HG3	1.76	0.67
1:Q:401:GLU:CD	1:Q:402:LYS:H	2.03	0.67
1:Q:569:ASN:C	1:Q:570:THR:HG23	2.20	0.67
1:A:200:TYR:OH	1:E:328:PRO:HG3	1.92	0.67
1:A:532:TYR:HE2	1:A:535:ILE:HD12	1.60	0.67
1:B:504:ASN:CB	1:B:505:PRO:HD2	2.19	0.67
1:C:299:TYR:CE2	1:S:299:TYR:CZ	2.83	0.67
1:C:431:PRO:HB3	1:C:511:PHE:CZ	2.28	0.67
1:D:287:LEU:CD1	1:D:288:VAL:N	2.56	0.67
1:E:260:GLN:CG	1:O:261:VAL:HG11	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:261:VAL:HG11	1:L:260:GLN:CG	2.25	0.67
1:E:299:TYR:CE2	1:L:299:TYR:CZ	2.83	0.67
1:E:342:ILE:HD12	1:E:342:ILE:N	2.09	0.67
1:E:353:ARG:H	1:E:584:ASN:HD21	1.42	0.67
1:F:287:LEU:CD1	1:F:288:VAL:N	2.56	0.67
1:F:342:ILE:CD1	1:F:342:ILE:N	2.58	0.67
1:F:356:THR:OG1	1:F:569:ASN:CG	2.37	0.67
1:H:260:GLN:CG	1:T:261:VAL:HG11	2.25	0.67
1:H:299:TYR:HE2	1:O:299:TYR:HE2	1.42	0.67
1:H:356:THR:OG1	1:H:569:ASN:CG	2.37	0.67
1:K:251:TYR:HD1	1:N:328:PRO:HB2	1.56	0.67
1:K:353:ARG:H	1:K:584:ASN:HD21	1.42	0.67
1:L:200:TYR:OH	1:S:328:PRO:HG3	1.92	0.67
1:N:287:LEU:CD1	1:N:288:VAL:N	2.56	0.67
1:N:451:TYR:CD1	1:N:457:ILE:CA	2.78	0.67
1:P:401:GLU:CD	1:P:402:LYS:H	2.03	0.67
1:Q:200:TYR:OH	1:R:328:PRO:HG3	1.92	0.67
1:Q:470:GLY:H	1:Q:530:LEU:HD13	1.58	0.67
1:S:450:GLU:O	1:S:451:TYR:HB2	1.92	0.67
1:T:474:ARG:HB2	1:T:524:ASP:C	2.19	0.67
1:A:346:SER:HB2	1:A:643:LEU:HB2	1.75	0.67
1:B:342:ILE:HD12	1:B:342:ILE:N	2.09	0.67
1:B:472:LEU:C	1:B:472:LEU:HD13	2.20	0.67
1:C:342:ILE:HD12	1:C:342:ILE:N	2.09	0.67
1:D:299:TYR:HE2	1:F:299:TYR:HE2	1.43	0.67
1:F:261:VAL:HG11	1:K:260:GLN:CG	2.25	0.67
1:F:299:TYR:HE2	1:K:299:TYR:HE2	1.42	0.67
1:F:569:ASN:C	1:F:570:THR:HG23	2.20	0.67
1:G:287:LEU:CD1	1:G:288:VAL:N	2.56	0.67
1:G:342:ILE:HD12	1:G:342:ILE:N	2.09	0.67
1:H:474:ARG:HB2	1:H:524:ASP:C	2.19	0.67
1:M:353:ARG:H	1:M:584:ASN:HD21	1.42	0.67
1:M:532:TYR:HE2	1:M:535:ILE:HD12	1.60	0.67
1:O:401:GLU:CD	1:O:402:LYS:H	2.03	0.67
1:P:472:LEU:HD13	1:P:472:LEU:C	2.20	0.67
1:Q:287:LEU:CD1	1:Q:288:VAL:N	2.56	0.67
1:S:342:ILE:HD12	1:S:342:ILE:N	2.09	0.67
1:B:401:GLU:CD	1:B:402:LYS:H	2.03	0.67
1:B:532:TYR:HE2	1:B:535:ILE:HD12	1.60	0.67
1:D:398:LYS:H	1:D:403:LEU:HD23	1.60	0.67
1:D:569:ASN:C	1:D:570:THR:HG23	2.20	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:299:TYR:CE2	1:K:299:TYR:CZ	2.82	0.67
1:G:401:GLU:CD	1:G:402:LYS:H	2.03	0.67
1:K:401:GLU:CD	1:K:402:LYS:H	2.03	0.67
1:K:532:TYR:HE2	1:K:535:ILE:HD12	1.60	0.67
1:L:398:LYS:H	1:L:403:LEU:HD23	1.60	0.67
1:M:474:ARG:HB2	1:M:524:ASP:C	2.19	0.67
1:O:356:THR:OG1	1:O:569:ASN:CG	2.37	0.67
1:O:398:LYS:H	1:O:403:LEU:HD23	1.60	0.67
1:O:474:ARG:HA	1:O:525:VAL:HG23	1.77	0.67
1:O:569:ASN:C	1:O:570:THR:HG23	2.20	0.67
1:P:569:ASN:C	1:P:570:THR:HG23	2.20	0.67
1:Q:472:LEU:C	1:Q:472:LEU:HD13	2.20	0.67
1:R:451:TYR:CD1	1:R:457:ILE:CA	2.78	0.67
1:R:532:TYR:HE2	1:R:535:ILE:HD12	1.60	0.67
1:C:356:THR:OG1	1:C:569:ASN:CG	2.37	0.66
1:C:451:TYR:CD1	1:C:457:ILE:CB	2.77	0.66
1:D:463:PHE:HB2	1:D:466:MET:HG3	1.76	0.66
1:E:451:TYR:CD1	1:E:457:ILE:CB	2.77	0.66
1:E:472:LEU:C	1:E:472:LEU:HD13	2.20	0.66
1:E:569:ASN:C	1:E:570:THR:HG23	2.20	0.66
1:F:463:PHE:HB2	1:F:466:MET:HG3	1.76	0.66
1:G:451:TYR:CD1	1:G:457:ILE:CB	2.77	0.66
1:G:532:TYR:HE2	1:G:535:ILE:HD12	1.60	0.66
1:J:344:LYS:O	1:J:345:SER:HB2	1.95	0.66
1:J:569:ASN:C	1:J:570:THR:HG23	2.20	0.66
1:K:344:LYS:O	1:K:345:SER:HB2	1.95	0.66
1:L:299:TYR:HE2	1:T:299:TYR:HE2	1.42	0.66
1:N:261:VAL:HG11	1:R:260:GLN:CG	2.25	0.66
1:N:342:ILE:CD1	1:N:342:ILE:N	2.58	0.66
1:O:487:ILE:CG2	1:O:510:VAL:HG22	2.20	0.66
1:P:356:THR:OG1	1:P:569:ASN:CG	2.37	0.66
1:P:540:ILE:HB	1:P:582:VAL:CG1	2.26	0.66
1:R:472:LEU:C	1:R:472:LEU:HD13	2.20	0.66
1:S:344:LYS:O	1:S:345:SER:HB2	1.95	0.66
1:A:299:TYR:CE2	1:J:299:TYR:CZ	2.82	0.66
1:B:342:ILE:CD1	1:B:342:ILE:N	2.58	0.66
1:B:575:TYR:CA	1:D:480:LYS:NZ	2.52	0.66
1:C:569:ASN:C	1:C:570:THR:HG23	2.20	0.66
1:D:261:VAL:HG11	1:F:260:GLN:CG	2.25	0.66
1:D:474:ARG:HA	1:D:525:VAL:HG23	1.77	0.66
1:G:255:LEU:HD11	1:I:313:GLU:OE1	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:344:LYS:O	1:G:345:SER:HB2	1.95	0.66
1:G:504:ASN:CB	1:G:505:PRO:HD2	2.19	0.66
1:H:261:VAL:HG11	1:O:260:GLN:CG	2.25	0.66
1:K:271:LEU:CB	1:N:324:LEU:HD21	2.20	0.66
1:K:472:LEU:HD13	1:K:472:LEU:C	2.20	0.66
1:L:472:LEU:HD13	1:L:472:LEU:C	2.20	0.66
1:M:569:ASN:C	1:M:570:THR:HG23	2.20	0.66
1:N:342:ILE:N	1:N:342:ILE:HD12	2.09	0.66
1:O:451:TYR:CD1	1:O:457:ILE:CA	2.78	0.66
1:O:472:LEU:HD13	1:O:472:LEU:C	2.20	0.66
1:P:261:VAL:HG11	1:Q:260:GLN:CG	2.25	0.66
1:Q:398:LYS:H	1:Q:403:LEU:HD23	1.59	0.66
1:R:342:ILE:HD12	1:R:342:ILE:N	2.09	0.66
1:R:470:GLY:H	1:R:530:LEU:HD13	1.58	0.66
1:S:569:ASN:C	1:S:570:THR:HG23	2.20	0.66
1:A:463:PHE:HB2	1:A:466:MET:HG3	1.76	0.66
1:B:540:ILE:HB	1:B:582:VAL:CG1	2.26	0.66
1:C:260:GLN:CG	1:K:261:VAL:HG11	2.25	0.66
1:C:342:ILE:CD1	1:C:342:ILE:N	2.58	0.66
1:C:401:GLU:CD	1:C:402:LYS:H	2.03	0.66
1:D:166:TRP:C	1:D:168:ALA:H	2.04	0.66
1:D:260:GLN:CG	1:S:261:VAL:HG11	2.25	0.66
1:D:342:ILE:CD1	1:D:342:ILE:N	2.58	0.66
1:D:532:TYR:HE2	1:D:535:ILE:HD12	1.60	0.66
1:E:287:LEU:CD1	1:E:288:VAL:N	2.56	0.66
1:E:439:THR:HG1	1:E:457:ILE:CG1	2.01	0.66
1:G:463:PHE:HB2	1:G:466:MET:HG3	1.76	0.66
1:G:474:ARG:HA	1:G:525:VAL:HG23	1.77	0.66
1:H:332:LEU:HD23	1:H:334:HIS:H	1.61	0.66
1:H:346:SER:HB2	1:H:643:LEU:HB2	1.75	0.66
1:J:299:TYR:HE2	1:P:299:TYR:HE2	1.42	0.66
1:J:472:LEU:C	1:J:472:LEU:HD13	2.20	0.66
1:L:353:ARG:H	1:L:584:ASN:HD21	1.42	0.66
1:M:344:LYS:O	1:M:345:SER:HB2	1.95	0.66
1:N:398:LYS:H	1:N:403:LEU:HD23	1.59	0.66
1:N:540:ILE:HB	1:N:582:VAL:CG1	2.26	0.66
1:A:287:LEU:CD1	1:A:288:VAL:N	2.56	0.66
1:A:575:TYR:CA	1:E:480:LYS:NZ	2.52	0.66
1:B:451:TYR:CD1	1:B:457:ILE:CA	2.78	0.66
1:D:251:TYR:HD1	1:L:328:PRO:HB2	1.56	0.66
1:D:332:LEU:HD23	1:D:334:HIS:H	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:166:TRP:C	1:E:168:ALA:H	2.04	0.66
1:F:165:GLU:CG	1:N:325:LEU:HD23	2.21	0.66
1:F:532:TYR:HE2	1:F:535:ILE:HD12	1.60	0.66
1:F:540:ILE:HB	1:F:582:VAL:CG1	2.26	0.66
1:H:451:TYR:CD1	1:H:457:ILE:CA	2.78	0.66
1:H:463:PHE:HB2	1:H:466:MET:HG3	1.76	0.66
1:I:332:LEU:HD23	1:I:334:HIS:H	1.61	0.66
1:I:470:GLY:H	1:I:530:LEU:HD13	1.58	0.66
1:J:532:TYR:HE2	1:J:535:ILE:HD12	1.60	0.66
1:J:578:ARG:O	1:J:579:SER:OG	2.10	0.66
1:K:342:ILE:CD1	1:K:342:ILE:N	2.58	0.66
1:L:474:ARG:HA	1:L:525:VAL:HG23	1.77	0.66
1:L:569:ASN:C	1:L:570:THR:HG23	2.20	0.66
1:M:342:ILE:HD12	1:M:342:ILE:N	2.09	0.66
1:M:356:THR:OG1	1:M:569:ASN:CG	2.37	0.66
1:M:463:PHE:HB2	1:M:466:MET:HG3	1.76	0.66
1:N:401:GLU:CD	1:N:402:LYS:H	2.03	0.66
1:N:474:ARG:HA	1:N:525:VAL:HG23	1.77	0.66
1:P:299:TYR:CE2	1:Q:299:TYR:CZ	2.82	0.66
1:Q:474:ARG:HA	1:Q:525:VAL:HG23	1.77	0.66
1:S:532:TYR:HE2	1:S:535:ILE:HD12	1.60	0.66
1:T:569:ASN:C	1:T:570:THR:HG23	2.20	0.66
1:A:259:ARG:NH1	1:B:259:ARG:O	2.29	0.66
1:A:344:LYS:O	1:A:345:SER:HB2	1.95	0.66
1:A:569:ASN:C	1:A:570:THR:HG23	2.20	0.66
1:C:166:TRP:C	1:C:168:ALA:H	2.04	0.66
1:G:540:ILE:HB	1:G:582:VAL:CG1	2.26	0.66
1:G:569:ASN:C	1:G:570:THR:HG23	2.20	0.66
1:H:342:ILE:CD1	1:H:342:ILE:N	2.58	0.66
1:I:342:ILE:HD12	1:I:342:ILE:N	2.09	0.66
1:I:401:GLU:CD	1:I:402:LYS:H	2.03	0.66
1:K:463:PHE:HB2	1:K:466:MET:HG3	1.76	0.66
1:L:401:GLU:CD	1:L:402:LYS:H	2.03	0.66
1:M:260:GLN:CG	1:R:261:VAL:HG11	2.25	0.66
1:N:472:LEU:C	1:N:472:LEU:HD13	2.20	0.66
1:N:532:TYR:HE2	1:N:535:ILE:HD12	1.60	0.66
1:O:332:LEU:HD23	1:O:334:HIS:H	1.61	0.66
1:P:532:TYR:HE2	1:P:535:ILE:HD12	1.60	0.66
1:S:166:TRP:C	1:S:168:ALA:H	2.04	0.66
1:C:332:LEU:HD23	1:C:334:HIS:H	1.61	0.66
1:D:255:LEU:HD11	1:S:313:GLU:OE1	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:259:ARG:NH1	1:S:259:ARG:O	2.29	0.66
1:D:280:SER:HG	1:D:334:HIS:CE1	1.98	0.66
1:E:313:GLU:OE1	1:L:255:LEU:HD11	1.95	0.66
1:F:401:GLU:CD	1:F:402:LYS:H	2.03	0.66
1:F:472:LEU:C	1:F:472:LEU:HD13	2.20	0.66
1:G:261:VAL:HG11	1:N:260:GLN:CG	2.25	0.66
1:H:472:LEU:HD13	1:H:472:LEU:C	2.20	0.66
1:H:540:ILE:HB	1:H:582:VAL:CG1	2.26	0.66
1:I:260:GLN:CG	1:M:261:VAL:HG11	2.25	0.66
1:I:569:ASN:C	1:I:570:THR:HG23	2.20	0.66
1:J:451:TYR:CD1	1:J:457:ILE:CA	2.78	0.66
1:L:332:LEU:HD23	1:L:334:HIS:H	1.61	0.66
1:M:398:LYS:H	1:M:403:LEU:HD23	1.59	0.66
1:O:532:TYR:HE2	1:O:535:ILE:HD12	1.60	0.66
1:R:166:TRP:C	1:R:168:ALA:H	2.04	0.66
1:T:510:VAL:CG1	1:T:511:PHE:N	2.45	0.66
1:A:353:ARG:H	1:A:584:ASN:HD21	1.42	0.66
1:B:165:GLU:OE1	1:D:325:LEU:HD23	1.94	0.66
1:B:287:LEU:CD1	1:B:288:VAL:N	2.56	0.66
1:D:401:GLU:CD	1:D:402:LYS:H	2.03	0.66
1:D:540:ILE:HB	1:D:582:VAL:CG1	2.26	0.66
1:E:259:ARG:O	1:L:259:ARG:NH1	2.29	0.66
1:G:259:ARG:NH1	1:I:259:ARG:O	2.29	0.66
1:H:532:TYR:HE2	1:H:535:ILE:HD12	1.60	0.66
1:I:166:TRP:C	1:I:168:ALA:H	2.04	0.66
1:I:287:LEU:CD1	1:I:288:VAL:N	2.56	0.66
1:I:299:TYR:HE2	1:M:299:TYR:HE2	1.42	0.66
1:I:540:ILE:HB	1:I:582:VAL:CG1	2.26	0.66
1:J:342:ILE:CD1	1:J:342:ILE:N	2.58	0.66
1:K:237:PRO:CG	1:N:327:PRO:CD	2.55	0.66
1:L:532:TYR:HE2	1:L:535:ILE:HD12	1.60	0.66
1:L:540:ILE:HB	1:L:582:VAL:CG1	2.26	0.66
1:M:332:LEU:HD23	1:M:334:HIS:H	1.61	0.66
1:M:540:ILE:HB	1:M:582:VAL:CG1	2.26	0.66
1:Q:353:ARG:H	1:Q:584:ASN:HD21	1.42	0.66
1:Q:510:VAL:CG1	1:Q:511:PHE:N	2.45	0.66
1:T:472:LEU:C	1:T:472:LEU:HD13	2.21	0.66
1:A:260:GLN:CG	1:B:261:VAL:HG11	2.25	0.66
1:B:325:LEU:HB2	1:D:165:GLU:CD	2.11	0.66
1:D:472:LEU:HD13	1:D:472:LEU:C	2.20	0.66
1:F:510:VAL:CG1	1:F:511:PHE:N	2.45	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:299:TYR:CE2	1:N:299:TYR:CZ	2.83	0.66
1:H:398:LYS:H	1:H:403:LEU:HD23	1.60	0.66
1:K:402:LYS:HZ2	1:K:511:PHE:HE2	1.41	0.66
1:L:261:VAL:HG11	1:T:260:GLN:CG	2.25	0.66
1:M:190:LYS:HB2	1:M:652:LEU:CD1	2.24	0.66
1:P:166:TRP:C	1:P:168:ALA:H	2.04	0.66
1:Q:165:GLU:OE1	1:R:325:LEU:HD23	1.94	0.66
1:R:332:LEU:HD23	1:R:334:HIS:H	1.61	0.66
1:R:401:GLU:CD	1:R:402:LYS:H	2.03	0.66
1:S:332:LEU:HD23	1:S:334:HIS:H	1.61	0.66
1:A:259:ARG:O	1:J:259:ARG:NH1	2.29	0.66
1:A:342:ILE:CD1	1:A:342:ILE:N	2.58	0.66
1:A:472:LEU:C	1:A:472:LEU:HD13	2.21	0.66
1:C:472:LEU:HD13	1:C:472:LEU:C	2.20	0.66
1:E:332:LEU:HD23	1:E:334:HIS:H	1.61	0.66
1:E:398:LYS:H	1:E:403:LEU:HD23	1.59	0.66
1:I:342:ILE:CD1	1:I:342:ILE:N	2.58	0.66
1:K:540:ILE:HB	1:K:582:VAL:HG13	1.78	0.66
1:M:287:LEU:CD1	1:M:288:VAL:N	2.56	0.66
1:M:401:GLU:CD	1:M:402:LYS:H	2.03	0.66
1:Q:166:TRP:C	1:Q:168:ALA:H	2.04	0.66
1:S:398:LYS:H	1:S:403:LEU:HD23	1.59	0.66
1:S:472:LEU:HD13	1:S:472:LEU:C	2.20	0.66
1:S:474:ARG:HA	1:S:525:VAL:HG23	1.77	0.66
1:T:398:LYS:H	1:T:403:LEU:HD23	1.59	0.66
1:C:259:ARG:O	1:S:259:ARG:NH1	2.29	0.66
1:C:259:ARG:NH1	1:K:259:ARG:O	2.29	0.66
1:E:532:TYR:HE2	1:E:535:ILE:HD12	1.60	0.66
1:H:401:GLU:CD	1:H:402:LYS:H	2.03	0.66
1:J:540:ILE:HB	1:J:582:VAL:CG1	2.26	0.66
1:K:504:ASN:CB	1:K:505:PRO:HD2	2.19	0.66
1:K:540:ILE:HB	1:K:582:VAL:CG1	2.26	0.66
1:L:259:ARG:O	1:T:259:ARG:NH1	2.29	0.66
1:L:446:THR:O	1:L:452:ASP:OD2	2.14	0.66
1:M:259:ARG:NH1	1:R:259:ARG:O	2.29	0.66
1:N:259:ARG:O	1:R:259:ARG:NH1	2.29	0.66
1:N:540:ILE:HB	1:N:582:VAL:HG13	1.78	0.66
1:O:342:ILE:CD1	1:O:342:ILE:N	2.58	0.66
1:R:344:LYS:O	1:R:345:SER:HB2	1.95	0.66
1:A:540:ILE:HB	1:A:582:VAL:CG1	2.26	0.65
1:C:287:LEU:CD1	1:C:288:VAL:N	2.56	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:344:LYS:O	1:C:345:SER:HB2	1.95	0.65
1:D:251:TYR:CD1	1:L:328:PRO:CB	2.58	0.65
1:E:299:TYR:HE2	1:O:299:TYR:HE2	1.43	0.65
1:E:344:LYS:O	1:E:345:SER:HB2	1.95	0.65
1:F:508:ILE:N	1:F:508:ILE:HD13	2.11	0.65
1:G:424:THR:HG23	1:G:425:ILE:HD13	1.78	0.65
1:G:508:ILE:N	1:G:508:ILE:HD13	2.11	0.65
1:H:259:ARG:O	1:O:259:ARG:NH1	2.29	0.65
1:H:299:TYR:CE2	1:O:299:TYR:CZ	2.82	0.65
1:H:508:ILE:HD13	1:H:508:ILE:N	2.11	0.65
1:J:259:ARG:O	1:P:259:ARG:NH1	2.29	0.65
1:L:451:TYR:CD1	1:L:457:ILE:CA	2.78	0.65
1:M:342:ILE:CD1	1:M:342:ILE:N	2.58	0.65
1:M:540:ILE:HB	1:M:582:VAL:HG13	1.79	0.65
1:P:508:ILE:HD13	1:P:508:ILE:N	2.11	0.65
1:Q:540:ILE:HB	1:Q:582:VAL:CG1	2.26	0.65
1:R:540:ILE:HB	1:R:582:VAL:HG13	1.78	0.65
1:S:342:ILE:CD1	1:S:342:ILE:N	2.58	0.65
1:S:401:GLU:CD	1:S:402:LYS:H	2.03	0.65
1:T:446:THR:O	1:T:452:ASP:OD2	2.14	0.65
1:T:540:ILE:HB	1:T:582:VAL:CG1	2.26	0.65
1:A:398:LYS:H	1:A:403:LEU:HD23	1.59	0.65
1:C:261:VAL:HG11	1:S:260:GLN:CG	2.25	0.65
1:D:259:ARG:O	1:F:259:ARG:NH1	2.29	0.65
1:D:439:THR:HG1	1:D:457:ILE:HG12	1.59	0.65
1:D:451:TYR:CD1	1:D:457:ILE:CB	2.77	0.65
1:E:342:ILE:CD1	1:E:342:ILE:N	2.58	0.65
1:F:540:ILE:HB	1:F:582:VAL:HG13	1.78	0.65
1:G:472:LEU:HD13	1:G:472:LEU:C	2.20	0.65
1:G:540:ILE:HB	1:G:582:VAL:HG13	1.78	0.65
1:H:474:ARG:HA	1:H:525:VAL:HG23	1.77	0.65
1:I:446:THR:O	1:I:452:ASP:OD2	2.14	0.65
1:I:451:TYR:CD1	1:I:457:ILE:CA	2.78	0.65
1:I:540:ILE:HB	1:I:582:VAL:HG13	1.79	0.65
1:J:261:VAL:HG11	1:P:260:GLN:CG	2.25	0.65
1:J:353:ARG:H	1:J:584:ASN:HD21	1.42	0.65
1:M:255:LEU:HD11	1:R:313:GLU:OE1	1.95	0.65
1:M:472:LEU:C	1:M:472:LEU:HD13	2.20	0.65
1:O:540:ILE:HB	1:O:582:VAL:CG1	2.26	0.65
1:P:280:SER:HG	1:P:334:HIS:CE1	1.99	0.65
1:P:299:TYR:HE2	1:Q:299:TYR:HE2	1.42	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:387:ARG:HH21	1:P:592:ARG:HD3	1.62	0.65
1:Q:344:LYS:O	1:Q:345:SER:HB2	1.95	0.65
1:S:446:THR:O	1:S:452:ASP:OD2	2.14	0.65
1:T:532:TYR:HE2	1:T:535:ILE:HD12	1.60	0.65
1:A:332:LEU:HD23	1:A:334:HIS:H	1.61	0.65
1:B:280:SER:HG	1:B:334:HIS:CE1	2.00	0.65
1:B:540:ILE:HB	1:B:582:VAL:HG13	1.79	0.65
1:C:474:ARG:HA	1:C:525:VAL:HG23	1.77	0.65
1:D:344:LYS:O	1:D:345:SER:HB2	1.95	0.65
1:D:446:THR:O	1:D:452:ASP:OD2	2.14	0.65
1:D:577:ILE:HG13	1:D:578:ARG:N	2.03	0.65
1:E:424:THR:HG23	1:E:425:ILE:HD13	1.79	0.65
1:G:260:GLN:CG	1:I:261:VAL:HG11	2.25	0.65
1:G:332:LEU:HD23	1:G:334:HIS:H	1.61	0.65
1:J:299:TYR:CE2	1:P:299:TYR:CZ	2.83	0.65
1:J:508:ILE:N	1:J:508:ILE:HD13	2.11	0.65
1:K:508:ILE:N	1:K:508:ILE:HD13	2.12	0.65
1:M:504:ASN:CB	1:M:505:PRO:HD2	2.19	0.65
1:N:344:LYS:O	1:N:345:SER:HB2	1.95	0.65
1:P:424:THR:HG23	1:P:425:ILE:HD13	1.79	0.65
1:P:446:THR:O	1:P:452:ASP:OD2	2.14	0.65
1:Q:387:ARG:HH21	1:Q:592:ARG:HD3	1.62	0.65
1:R:342:ILE:CD1	1:R:342:ILE:N	2.58	0.65
1:R:424:THR:HG23	1:R:425:ILE:HD13	1.79	0.65
1:R:474:ARG:HA	1:R:525:VAL:HG23	1.77	0.65
1:T:344:LYS:O	1:T:345:SER:HB2	1.95	0.65
1:A:261:VAL:HG11	1:J:260:GLN:CG	2.25	0.65
1:A:299:TYR:HE2	1:J:299:TYR:HE2	1.42	0.65
1:A:474:ARG:HA	1:A:525:VAL:HG23	1.77	0.65
1:A:507:LYS:H	1:A:508:ILE:HD13	1.62	0.65
1:B:259:ARG:NH1	1:Q:259:ARG:O	2.29	0.65
1:B:398:LYS:H	1:B:403:LEU:HD23	1.59	0.65
1:B:424:THR:HG23	1:B:425:ILE:HD13	1.79	0.65
1:B:474:ARG:HA	1:B:525:VAL:HG23	1.77	0.65
1:F:540:ILE:HD12	1:F:582:VAL:HG21	1.79	0.65
1:G:446:THR:O	1:G:452:ASP:OD2	2.14	0.65
1:H:259:ARG:NH1	1:T:259:ARG:O	2.29	0.65
1:H:611:ILE:HD12	1:H:619:PHE:CE1	2.32	0.65
1:I:507:LYS:H	1:I:508:ILE:HD13	1.62	0.65
1:K:332:LEU:HD23	1:K:334:HIS:H	1.61	0.65
1:K:424:THR:HG23	1:K:425:ILE:HD13	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:344:LYS:O	1:L:345:SER:HB2	1.95	0.65
1:L:387:ARG:HH21	1:L:592:ARG:HD3	1.62	0.65
1:N:540:ILE:HD12	1:N:582:VAL:HG21	1.79	0.65
1:Q:508:ILE:N	1:Q:508:ILE:HD13	2.11	0.65
1:S:424:THR:HG23	1:S:425:ILE:HD13	1.79	0.65
1:S:540:ILE:HB	1:S:582:VAL:CG1	2.26	0.65
1:T:342:ILE:CD1	1:T:342:ILE:N	2.58	0.65
1:A:508:ILE:HD13	1:A:508:ILE:N	2.12	0.65
1:C:437:VAL:CG1	1:C:438:THR:N	2.34	0.65
1:C:446:THR:O	1:C:452:ASP:OD2	2.14	0.65
1:G:342:ILE:CD1	1:G:342:ILE:N	2.58	0.65
1:G:353:ARG:H	1:G:584:ASN:HD21	1.42	0.65
1:G:601:LEU:CD1	1:G:650:ILE:CG1	2.62	0.65
1:G:611:ILE:HD12	1:G:619:PHE:CE1	2.32	0.65
1:H:344:LYS:O	1:H:345:SER:HB2	1.95	0.65
1:H:507:LYS:H	1:H:508:ILE:HD13	1.62	0.65
1:H:540:ILE:HD12	1:H:582:VAL:HG21	1.79	0.65
1:L:611:ILE:HD12	1:L:619:PHE:CE1	2.32	0.65
1:M:474:ARG:HA	1:M:525:VAL:HG23	1.77	0.65
1:Q:342:ILE:CD1	1:Q:342:ILE:N	2.58	0.65
1:Q:532:TYR:HE2	1:Q:535:ILE:HD12	1.60	0.65
1:T:287:LEU:CD1	1:T:288:VAL:N	2.56	0.65
1:B:332:LEU:HD23	1:B:334:HIS:H	1.61	0.65
1:C:540:ILE:HB	1:C:582:VAL:CG1	2.26	0.65
1:E:275:LEU:CD1	1:J:275:LEU:CG	2.34	0.65
1:E:446:THR:O	1:E:452:ASP:OD2	2.14	0.65
1:E:508:ILE:N	1:E:508:ILE:HD13	2.12	0.65
1:E:540:ILE:HB	1:E:582:VAL:CG1	2.26	0.65
1:F:398:LYS:H	1:F:403:LEU:HD23	1.59	0.65
1:G:398:LYS:H	1:G:403:LEU:HD23	1.59	0.65
1:H:540:ILE:HB	1:H:582:VAL:HG13	1.79	0.65
1:I:532:TYR:HE2	1:I:535:ILE:HD12	1.60	0.65
1:I:611:ILE:HD12	1:I:619:PHE:CE1	2.32	0.65
1:J:401:GLU:CD	1:J:402:LYS:H	2.03	0.65
1:N:507:LYS:H	1:N:508:ILE:HD13	1.62	0.65
1:O:344:LYS:O	1:O:345:SER:HB2	1.95	0.65
1:P:332:LEU:HD23	1:P:334:HIS:H	1.61	0.65
1:P:398:LYS:H	1:P:403:LEU:HD23	1.59	0.65
1:P:451:TYR:CD1	1:P:457:ILE:CA	2.78	0.65
1:R:507:LYS:H	1:R:508:ILE:HD13	1.62	0.65
1:R:611:ILE:HD12	1:R:619:PHE:CE1	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:324:LEU:HD22	1:T:271:LEU:CB	2.26	0.65
1:S:611:ILE:HD12	1:S:619:PHE:CE1	2.32	0.65
1:A:165:GLU:CG	1:E:325:LEU:HD23	2.21	0.65
1:C:299:TYR:HE2	1:S:299:TYR:HE2	1.42	0.65
1:C:508:ILE:N	1:C:508:ILE:HD13	2.12	0.65
1:D:237:PRO:HD3	1:L:327:PRO:HD3	1.68	0.65
1:F:259:ARG:O	1:K:259:ARG:NH1	2.29	0.65
1:F:325:LEU:HD23	1:N:165:GLU:OE1	1.95	0.65
1:G:166:TRP:C	1:G:168:ALA:H	2.04	0.65
1:G:387:ARG:HH21	1:G:592:ARG:HD3	1.62	0.65
1:H:446:THR:O	1:H:452:ASP:OD2	2.14	0.65
1:I:474:ARG:HA	1:I:525:VAL:HG23	1.77	0.65
1:I:540:ILE:HD12	1:I:582:VAL:HG21	1.79	0.65
1:L:424:THR:HG23	1:L:425:ILE:HD13	1.79	0.65
1:M:611:ILE:HD12	1:M:619:PHE:CE1	2.32	0.65
1:N:387:ARG:HH21	1:N:592:ARG:HD3	1.62	0.65
1:P:540:ILE:HB	1:P:582:VAL:HG13	1.78	0.65
1:Q:451:TYR:CD1	1:Q:457:ILE:CA	2.78	0.65
1:Q:611:ILE:HD12	1:Q:619:PHE:CE1	2.32	0.65
1:R:387:ARG:HH21	1:R:592:ARG:HD3	1.62	0.65
1:R:398:LYS:H	1:R:403:LEU:HD23	1.59	0.65
1:R:540:ILE:HB	1:R:582:VAL:CG1	2.26	0.65
1:A:540:ILE:HB	1:A:582:VAL:HG13	1.79	0.65
1:B:508:ILE:N	1:B:508:ILE:HD13	2.11	0.65
1:B:540:ILE:HD12	1:B:582:VAL:HG21	1.79	0.65
1:C:510:VAL:CG1	1:C:511:PHE:N	2.45	0.65
1:C:532:TYR:HE2	1:C:535:ILE:HD12	1.60	0.65
1:C:611:ILE:HD12	1:C:619:PHE:CE1	2.32	0.65
1:D:540:ILE:HB	1:D:582:VAL:HG13	1.78	0.65
1:F:328:PRO:CB	1:R:251:TYR:HD1	1.75	0.65
1:F:332:LEU:HD23	1:F:334:HIS:H	1.61	0.65
1:F:474:ARG:HA	1:F:525:VAL:HG23	1.77	0.65
1:G:259:ARG:O	1:N:259:ARG:NH1	2.29	0.65
1:J:451:TYR:CD1	1:J:457:ILE:CB	2.77	0.65
1:J:611:ILE:HD12	1:J:619:PHE:CE1	2.32	0.65
1:K:252:PRO:HD2	1:N:328:PRO:CD	2.06	0.65
1:K:271:LEU:CB	1:N:324:LEU:HD22	2.26	0.65
1:M:166:TRP:C	1:M:168:ALA:H	2.04	0.65
1:O:540:ILE:HB	1:O:582:VAL:HG13	1.78	0.65
1:P:344:LYS:O	1:P:345:SER:HB2	1.95	0.65
1:P:611:ILE:HD12	1:P:619:PHE:CE1	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:332:LEU:HD23	1:Q:334:HIS:H	1.61	0.65
1:T:401:GLU:CD	1:T:402:LYS:H	2.03	0.65
1:A:611:ILE:HD12	1:A:619:PHE:CE1	2.32	0.65
1:B:324:LEU:HD11	1:F:271:LEU:HB3	1.79	0.65
1:B:387:ARG:HH21	1:B:592:ARG:HD3	1.62	0.65
1:D:297:ASN:HD22	1:D:297:ASN:C	2.05	0.65
1:D:504:ASN:CB	1:D:505:PRO:HD2	2.19	0.65
1:G:229:GLY:O	1:I:222:SER:OG	2.15	0.65
1:I:259:ARG:NH1	1:M:259:ARG:O	2.29	0.65
1:K:398:LYS:H	1:K:403:LEU:HD23	1.59	0.65
1:M:271:LEU:HB3	1:Q:324:LEU:HD11	1.79	0.65
1:N:332:LEU:HD23	1:N:334:HIS:H	1.61	0.65
1:N:446:THR:O	1:N:452:ASP:OD2	2.14	0.65
1:O:508:ILE:N	1:O:508:ILE:HD13	2.12	0.65
1:Q:325:LEU:HD23	1:R:165:GLU:CG	2.21	0.65
1:Q:446:THR:O	1:Q:452:ASP:OD2	2.14	0.65
1:R:661:ILE:HG13	1:R:662:ARG:N	2.12	0.65
1:T:474:ARG:HA	1:T:525:VAL:HG23	1.77	0.65
1:T:540:ILE:HB	1:T:582:VAL:HG13	1.78	0.65
1:A:401:GLU:CD	1:A:402:LYS:H	2.03	0.65
1:B:446:THR:O	1:B:452:ASP:OD2	2.14	0.65
1:D:451:TYR:CD1	1:D:457:ILE:CA	2.78	0.65
1:E:259:ARG:NH1	1:O:259:ARG:O	2.29	0.65
1:I:472:LEU:C	1:I:472:LEU:HD13	2.20	0.65
1:L:540:ILE:HD12	1:L:582:VAL:HG21	1.79	0.65
1:M:446:THR:O	1:M:452:ASP:OD2	2.14	0.65
1:N:299:TYR:HE2	1:R:299:TYR:HE2	1.42	0.65
1:N:427:SER:HG	1:N:429:LEU:HD21	1.60	0.65
1:N:611:ILE:HD12	1:N:619:PHE:CE1	2.32	0.65
1:O:387:ARG:HH21	1:O:592:ARG:HD3	1.62	0.65
1:O:446:THR:O	1:O:452:ASP:OD2	2.14	0.65
1:O:540:ILE:HD12	1:O:582:VAL:HG21	1.79	0.65
1:P:259:ARG:O	1:Q:259:ARG:NH1	2.29	0.65
1:Q:325:LEU:HD23	1:R:165:GLU:OE1	1.94	0.65
1:Q:507:LYS:H	1:Q:508:ILE:HD13	1.62	0.65
1:Q:575:TYR:CA	1:R:480:LYS:NZ	2.52	0.65
1:B:297:ASN:HD22	1:B:297:ASN:C	2.05	0.64
1:C:398:LYS:H	1:C:403:LEU:HD23	1.59	0.64
1:C:424:THR:HG23	1:C:425:ILE:HD13	1.79	0.64
1:F:297:ASN:HD22	1:F:298:PRO:HD2	1.63	0.64
1:F:353:ARG:H	1:F:584:ASN:HD21	1.42	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:344:LYS:O	1:I:345:SER:HB2	1.95	0.64
1:I:353:ARG:H	1:I:584:ASN:HD21	1.42	0.64
1:I:387:ARG:HH21	1:I:592:ARG:HD3	1.62	0.64
1:J:297:ASN:HD22	1:J:297:ASN:C	2.05	0.64
1:J:297:ASN:HD22	1:J:298:PRO:HD2	1.62	0.64
1:J:661:ILE:HG13	1:J:662:ARG:N	2.12	0.64
1:K:474:ARG:HA	1:K:525:VAL:HG23	1.77	0.64
1:L:165:GLU:CG	1:S:325:LEU:HD23	2.21	0.64
1:L:435:TYR:O	1:L:435:TYR:CD1	2.51	0.64
1:M:209:VAL:HG23	1:M:324:LEU:CB	2.28	0.64
1:M:424:THR:HG23	1:M:425:ILE:HD13	1.78	0.64
1:N:222:SER:OG	1:R:229:GLY:O	2.15	0.64
1:P:474:ARG:HA	1:P:525:VAL:HG23	1.77	0.64
1:R:446:THR:O	1:R:452:ASP:OD2	2.14	0.64
1:T:353:ARG:H	1:T:584:ASN:HD21	1.42	0.64
1:T:387:ARG:HH21	1:T:592:ARG:HD3	1.62	0.64
1:T:424:THR:HG23	1:T:425:ILE:HD13	1.79	0.64
1:T:508:ILE:HD13	1:T:508:ILE:N	2.11	0.64
1:T:661:ILE:HG13	1:T:662:ARG:N	2.12	0.64
1:A:209:VAL:HG23	1:A:324:LEU:CB	2.28	0.64
1:C:387:ARG:HH21	1:C:592:ARG:HD3	1.62	0.64
1:D:299:TYR:HE2	1:S:299:TYR:HE2	1.42	0.64
1:D:435:TYR:O	1:D:435:TYR:CD1	2.51	0.64
1:E:540:ILE:HD12	1:E:582:VAL:HG21	1.79	0.64
1:F:344:LYS:O	1:F:345:SER:HB2	1.95	0.64
1:G:435:TYR:CD1	1:G:435:TYR:O	2.51	0.64
1:H:222:SER:OG	1:O:229:GLY:O	2.16	0.64
1:J:424:THR:HG23	1:J:425:ILE:HD13	1.78	0.64
1:J:474:ARG:HA	1:J:525:VAL:HG23	1.77	0.64
1:K:271:LEU:HB3	1:N:324:LEU:HD11	1.79	0.64
1:K:451:TYR:CD1	1:K:457:ILE:CB	2.77	0.64
1:N:297:ASN:HD22	1:N:298:PRO:HD2	1.63	0.64
1:P:507:LYS:H	1:P:508:ILE:HD13	1.62	0.64
1:Q:424:THR:HG23	1:Q:425:ILE:HD13	1.79	0.64
1:R:508:ILE:HD13	1:R:508:ILE:N	2.11	0.64
1:S:507:LYS:H	1:S:508:ILE:HD13	1.62	0.64
1:S:661:ILE:HG13	1:S:662:ARG:N	2.12	0.64
1:A:324:LEU:HD11	1:L:271:LEU:HB3	1.79	0.64
1:B:348:LEU:CD2	1:D:387:ARG:HH12	2.10	0.64
1:C:504:ASN:CB	1:C:505:PRO:HD2	2.19	0.64
1:C:507:LYS:H	1:C:508:ILE:HD13	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:260:GLN:HG3	1:O:261:VAL:HG11	1.80	0.64
1:E:526:THR:C	1:E:527:LEU:HD23	2.23	0.64
1:F:446:THR:O	1:F:452:ASP:OD2	2.14	0.64
1:G:222:SER:OG	1:N:229:GLY:O	2.16	0.64
1:H:209:VAL:HG23	1:H:324:LEU:CB	2.28	0.64
1:H:661:ILE:HG13	1:H:662:ARG:N	2.12	0.64
1:J:435:TYR:CD1	1:J:435:TYR:O	2.51	0.64
1:J:540:ILE:HD12	1:J:582:VAL:HG21	1.79	0.64
1:L:313:GLU:OE1	1:T:255:LEU:HD11	1.95	0.64
1:M:508:ILE:N	1:M:508:ILE:HD13	2.12	0.64
1:Q:435:TYR:CD1	1:Q:435:TYR:O	2.50	0.64
1:Q:526:THR:C	1:Q:527:LEU:HD23	2.23	0.64
1:S:435:TYR:CD1	1:S:435:TYR:O	2.51	0.64
1:T:540:ILE:HD12	1:T:582:VAL:HG21	1.79	0.64
1:A:451:TYR:CD1	1:A:457:ILE:CA	2.78	0.64
1:B:611:ILE:HD12	1:B:619:PHE:CE1	2.32	0.64
1:D:222:SER:OG	1:F:229:GLY:O	2.16	0.64
1:D:611:ILE:HD12	1:D:619:PHE:CE1	2.32	0.64
1:E:451:TYR:CD1	1:E:457:ILE:CA	2.78	0.64
1:F:165:GLU:OE1	1:N:325:LEU:HD23	1.95	0.64
1:F:435:TYR:CD1	1:F:435:TYR:O	2.51	0.64
1:F:526:THR:C	1:F:527:LEU:HD23	2.23	0.64
1:G:661:ILE:HG13	1:G:662:ARG:N	2.12	0.64
1:J:222:SER:OG	1:P:229:GLY:O	2.16	0.64
1:J:261:VAL:HG11	1:P:260:GLN:HG3	1.80	0.64
1:J:405:ILE:HG12	1:J:492:VAL:HG21	1.80	0.64
1:K:287:LEU:CD1	1:K:288:VAL:N	2.56	0.64
1:L:209:VAL:HG23	1:L:324:LEU:CB	2.28	0.64
1:L:575:TYR:CA	1:S:480:LYS:NZ	2.52	0.64
1:M:387:ARG:HH21	1:M:592:ARG:HD3	1.62	0.64
1:M:661:ILE:HG13	1:M:662:ARG:N	2.12	0.64
1:O:526:THR:C	1:O:527:LEU:HD23	2.23	0.64
1:O:661:ILE:HG13	1:O:662:ARG:N	2.12	0.64
1:Q:190:LYS:HB2	1:Q:652:LEU:CD1	2.24	0.64
1:Q:209:VAL:HG23	1:Q:324:LEU:CB	2.28	0.64
1:S:297:ASN:HD22	1:S:297:ASN:C	2.05	0.64
1:S:451:TYR:CD1	1:S:457:ILE:CA	2.78	0.64
1:S:540:ILE:HB	1:S:582:VAL:HG13	1.78	0.64
1:A:229:GLY:O	1:B:222:SER:OG	2.15	0.64
1:B:166:TRP:C	1:B:168:ALA:H	2.04	0.64
1:C:353:ARG:H	1:C:584:ASN:HD21	1.42	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:437:VAL:O	1:C:461:THR:HB	1.98	0.64
1:D:313:GLU:OE1	1:F:255:LEU:HD11	1.95	0.64
1:G:437:VAL:O	1:G:461:THR:HB	1.98	0.64
1:G:507:LYS:H	1:G:508:ILE:HD13	1.62	0.64
1:H:299:TYR:HE2	1:T:299:TYR:HE2	1.42	0.64
1:J:332:LEU:HD23	1:J:334:HIS:H	1.61	0.64
1:K:540:ILE:HD12	1:K:582:VAL:HG21	1.79	0.64
1:M:435:TYR:CD1	1:M:435:TYR:O	2.51	0.64
1:N:435:TYR:CD1	1:N:435:TYR:O	2.51	0.64
1:O:435:TYR:CD1	1:O:435:TYR:O	2.51	0.64
1:P:435:TYR:O	1:P:435:TYR:CD1	2.51	0.64
1:Q:387:ARG:HH12	1:R:348:LEU:CD2	2.11	0.64
1:R:353:ARG:H	1:R:584:ASN:HD21	1.42	0.64
1:R:526:THR:C	1:R:527:LEU:HD23	2.23	0.64
1:S:405:ILE:HG12	1:S:492:VAL:HG21	1.80	0.64
1:T:332:LEU:HD23	1:T:334:HIS:H	1.61	0.64
1:A:437:VAL:O	1:A:461:THR:HB	1.98	0.64
1:B:435:TYR:CD1	1:B:435:TYR:O	2.51	0.64
1:C:578:ARG:O	1:C:579:SER:OG	2.10	0.64
1:D:229:GLY:O	1:S:222:SER:OG	2.16	0.64
1:D:402:LYS:HD3	1:D:511:PHE:CG	2.32	0.64
1:D:508:ILE:HD13	1:D:508:ILE:N	2.12	0.64
1:E:437:VAL:O	1:E:461:THR:HB	1.98	0.64
1:F:166:TRP:C	1:F:168:ALA:H	2.04	0.64
1:F:209:VAL:HG23	1:F:324:LEU:CB	2.28	0.64
1:H:405:ILE:HG12	1:H:492:VAL:HG21	1.80	0.64
1:I:229:GLY:O	1:M:222:SER:OG	2.16	0.64
1:I:435:TYR:CD1	1:I:435:TYR:O	2.51	0.64
1:K:166:TRP:C	1:K:168:ALA:H	2.04	0.64
1:K:280:SER:HG	1:K:334:HIS:CE1	1.99	0.64
1:M:271:LEU:CB	1:Q:324:LEU:HD22	2.26	0.64
1:M:297:ASN:HD22	1:M:298:PRO:HD2	1.62	0.64
1:M:507:LYS:H	1:M:508:ILE:HD13	1.62	0.64
1:N:166:TRP:C	1:N:168:ALA:H	2.04	0.64
1:N:209:VAL:HG23	1:N:324:LEU:CB	2.28	0.64
1:O:287:LEU:CD1	1:O:288:VAL:N	2.56	0.64
1:Q:405:ILE:HG12	1:Q:492:VAL:HG21	1.80	0.64
1:R:437:VAL:O	1:R:461:THR:HB	1.98	0.64
1:R:540:ILE:HD12	1:R:582:VAL:HG21	1.79	0.64
1:S:387:ARG:HH21	1:S:592:ARG:HD3	1.62	0.64
1:S:613:ASP:HA	1:S:643:LEU:HD23	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:166:TRP:C	1:T:168:ALA:H	2.04	0.64
1:T:209:VAL:HG23	1:T:324:LEU:CB	2.28	0.64
1:T:611:ILE:HD12	1:T:619:PHE:CE1	2.32	0.64
1:A:260:GLN:HG3	1:B:261:VAL:HG11	1.80	0.64
1:A:297:ASN:HD22	1:A:297:ASN:C	2.05	0.64
1:A:297:ASN:HD22	1:A:298:PRO:HD2	1.62	0.64
1:A:661:ILE:HG13	1:A:662:ARG:N	2.12	0.64
1:D:237:PRO:CG	1:L:327:PRO:CD	2.54	0.64
1:D:260:GLN:HG3	1:S:261:VAL:HG11	1.80	0.64
1:D:437:VAL:O	1:D:461:THR:HB	1.98	0.64
1:E:507:LYS:H	1:E:508:ILE:HD13	1.62	0.64
1:E:611:ILE:HD12	1:E:619:PHE:CE1	2.32	0.64
1:F:348:LEU:CD2	1:N:387:ARG:HH12	2.10	0.64
1:F:402:LYS:HD3	1:F:511:PHE:CG	2.32	0.64
1:G:209:VAL:HG23	1:G:324:LEU:CB	2.28	0.64
1:G:526:THR:C	1:G:527:LEU:HD23	2.23	0.64
1:H:260:GLN:HG3	1:T:261:VAL:HG11	1.80	0.64
1:H:424:THR:HG23	1:H:425:ILE:HD13	1.78	0.64
1:J:446:THR:O	1:J:452:ASP:OD2	2.14	0.64
1:K:209:VAL:HG23	1:K:324:LEU:CB	2.28	0.64
1:K:446:THR:O	1:K:452:ASP:OD2	2.14	0.64
1:K:526:THR:C	1:K:527:LEU:HD23	2.23	0.64
1:L:222:SER:OG	1:T:229:GLY:O	2.16	0.64
1:L:342:ILE:CD1	1:L:342:ILE:N	2.58	0.64
1:L:348:LEU:CD2	1:S:387:ARG:HH12	2.10	0.64
1:L:508:ILE:HD13	1:L:508:ILE:N	2.12	0.64
1:M:526:THR:C	1:M:527:LEU:HD23	2.22	0.64
1:N:190:LYS:HB2	1:N:652:LEU:CD1	2.24	0.64
1:O:611:ILE:HD12	1:O:619:PHE:CE1	2.32	0.64
1:Q:437:VAL:O	1:Q:461:THR:HB	1.98	0.64
1:R:297:ASN:HD22	1:R:297:ASN:C	2.05	0.64
1:R:435:TYR:CD1	1:R:435:TYR:O	2.51	0.64
1:A:166:TRP:C	1:A:168:ALA:H	2.04	0.64
1:A:348:LEU:CD2	1:E:387:ARG:HH12	2.11	0.64
1:A:405:ILE:HG12	1:A:492:VAL:HG21	1.80	0.64
1:B:437:VAL:O	1:B:461:THR:HB	1.98	0.64
1:E:209:VAL:HG23	1:E:324:LEU:CB	2.28	0.64
1:E:387:ARG:HH21	1:E:592:ARG:HD3	1.62	0.64
1:F:507:LYS:H	1:F:508:ILE:HD13	1.62	0.64
1:G:313:GLU:OE1	1:N:255:LEU:HD11	1.95	0.64
1:G:451:TYR:CD1	1:G:457:ILE:CA	2.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:435:TYR:O	1:H:435:TYR:CD1	2.51	0.64
1:H:613:ASP:HA	1:H:643:LEU:HD23	1.80	0.64
1:I:451:TYR:CD1	1:I:457:ILE:CB	2.77	0.64
1:J:398:LYS:H	1:J:403:LEU:HD23	1.60	0.64
1:J:507:LYS:H	1:J:508:ILE:HD13	1.62	0.64
1:L:166:TRP:C	1:L:168:ALA:H	2.04	0.64
1:N:508:ILE:HD13	1:N:508:ILE:N	2.12	0.64
1:O:209:VAL:HG23	1:O:324:LEU:CB	2.28	0.64
1:O:331:MET:HE3	1:O:332:LEU:N	2.13	0.64
1:O:613:ASP:HA	1:O:643:LEU:HD23	1.80	0.64
1:P:540:ILE:HD12	1:P:582:VAL:HG21	1.79	0.64
1:Q:540:ILE:HB	1:Q:582:VAL:HG13	1.78	0.64
1:Q:540:ILE:HD12	1:Q:582:VAL:HG21	1.79	0.64
1:T:435:TYR:O	1:T:435:TYR:CD1	2.50	0.64
1:A:435:TYR:CD1	1:A:435:TYR:O	2.51	0.64
1:B:344:LYS:O	1:B:345:SER:HB2	1.95	0.64
1:C:435:TYR:CD1	1:C:435:TYR:O	2.51	0.64
1:C:610:ARG:HH21	1:C:648:MET:HE2	1.63	0.64
1:D:387:ARG:HH21	1:D:592:ARG:HD3	1.62	0.64
1:F:261:VAL:HG11	1:K:260:GLN:HG3	1.80	0.64
1:H:166:TRP:C	1:H:168:ALA:H	2.04	0.64
1:H:229:GLY:O	1:T:222:SER:OG	2.16	0.64
1:I:437:VAL:O	1:I:461:THR:HB	1.98	0.64
1:J:387:ARG:HH21	1:J:592:ARG:HD3	1.62	0.64
1:J:437:VAL:O	1:J:461:THR:HB	1.98	0.64
1:K:331:MET:HE3	1:K:332:LEU:N	2.13	0.64
1:K:387:ARG:HH21	1:K:592:ARG:HD3	1.62	0.64
1:K:437:VAL:HG11	1:K:439:THR:CG2	2.28	0.64
1:K:507:LYS:H	1:K:508:ILE:HD13	1.62	0.64
1:L:165:GLU:OE1	1:S:325:LEU:HD23	1.94	0.64
1:L:387:ARG:HH12	1:S:348:LEU:CD2	2.10	0.64
1:M:613:ASP:HA	1:M:643:LEU:HD23	1.80	0.64
1:N:661:ILE:HG13	1:N:662:ARG:N	2.12	0.64
1:O:610:ARG:HH21	1:O:648:MET:HE2	1.63	0.64
1:P:209:VAL:HG23	1:P:324:LEU:CB	2.28	0.64
1:Q:610:ARG:HH21	1:Q:648:MET:HE2	1.63	0.64
1:T:405:ILE:HG12	1:T:492:VAL:HG21	1.80	0.64
1:T:451:TYR:CD1	1:T:457:ILE:CA	2.78	0.64
1:T:526:THR:C	1:T:527:LEU:HD23	2.23	0.64
1:A:165:GLU:OE1	1:E:325:LEU:HD23	1.94	0.64
1:A:325:LEU:HB3	1:E:165:GLU:OE1	1.92	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:209:VAL:HG23	1:B:324:LEU:CB	2.28	0.64
1:B:661:ILE:HG13	1:B:662:ARG:N	2.12	0.64
1:C:209:VAL:HG23	1:C:324:LEU:CB	2.28	0.64
1:C:540:ILE:HB	1:C:582:VAL:HG13	1.78	0.64
1:D:610:ARG:HH21	1:D:648:MET:HE2	1.63	0.64
1:E:435:TYR:CD1	1:E:435:TYR:O	2.50	0.64
1:F:405:ILE:HG12	1:F:492:VAL:HG21	1.80	0.64
1:H:261:VAL:HG11	1:O:260:GLN:HG3	1.80	0.64
1:J:166:TRP:C	1:J:168:ALA:H	2.04	0.64
1:J:209:VAL:HG23	1:J:324:LEU:CB	2.28	0.64
1:K:435:TYR:CD1	1:K:435:TYR:O	2.51	0.64
1:K:451:TYR:CD1	1:K:457:ILE:CA	2.78	0.64
1:K:611:ILE:HD12	1:K:619:PHE:CE1	2.32	0.64
1:L:405:ILE:HG12	1:L:492:VAL:HG21	1.80	0.64
1:L:437:VAL:O	1:L:461:THR:HB	1.98	0.64
1:L:526:THR:C	1:L:527:LEU:HD23	2.23	0.64
1:N:610:ARG:HH21	1:N:648:MET:HE2	1.63	0.64
1:O:166:TRP:C	1:O:168:ALA:H	2.04	0.64
1:P:297:ASN:HD22	1:P:297:ASN:C	2.05	0.64
1:P:297:ASN:HD22	1:P:298:PRO:HD2	1.62	0.64
1:P:437:VAL:HG11	1:P:439:THR:CG2	2.28	0.64
1:R:610:ARG:HH21	1:R:648:MET:HE2	1.63	0.64
1:S:331:MET:HE3	1:S:332:LEU:N	2.13	0.64
1:S:437:VAL:O	1:S:461:THR:HB	1.98	0.64
1:S:504:ASN:CB	1:S:505:PRO:HD2	2.19	0.64
1:S:508:ILE:HD13	1:S:508:ILE:N	2.12	0.64
1:T:507:LYS:H	1:T:508:ILE:HD13	1.62	0.64
1:A:446:THR:O	1:A:452:ASP:OD2	2.14	0.63
1:B:326:LYS:CG	1:F:237:PRO:HG3	2.28	0.63
1:B:507:LYS:H	1:B:508:ILE:HD13	1.62	0.63
1:D:271:LEU:CB	1:L:324:LEU:HD22	2.26	0.63
1:D:424:THR:HG23	1:D:425:ILE:HD13	1.79	0.63
1:F:437:VAL:O	1:F:461:THR:HB	1.98	0.63
1:F:451:TYR:CD1	1:F:457:ILE:CA	2.78	0.63
1:F:610:ARG:HH21	1:F:648:MET:HE2	1.63	0.63
1:G:261:VAL:HG11	1:N:260:GLN:HG3	1.80	0.63
1:I:331:MET:HE3	1:I:332:LEU:N	2.13	0.63
1:I:508:ILE:HD13	1:I:508:ILE:N	2.12	0.63
1:I:610:ARG:HH21	1:I:648:MET:HE2	1.63	0.63
1:J:221:ILE:HD11	1:J:258:ALA:O	1.99	0.63
1:J:540:ILE:HB	1:J:582:VAL:HG13	1.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:331:MET:HE3	1:L:332:LEU:N	2.13	0.63
1:M:297:ASN:HD22	1:M:297:ASN:C	2.05	0.63
1:N:261:VAL:HG11	1:R:260:GLN:HG3	1.79	0.63
1:O:236:VAL:CG2	1:O:286:SER:HB2	2.28	0.63
1:O:437:VAL:HG11	1:O:439:THR:CG2	2.28	0.63
1:O:507:LYS:H	1:O:508:ILE:HD13	1.62	0.63
1:Q:297:ASN:HD22	1:Q:297:ASN:C	2.05	0.63
1:Q:331:MET:HE3	1:Q:332:LEU:N	2.13	0.63
1:R:236:VAL:HG11	1:R:242:PRO:HG3	1.80	0.63
1:S:209:VAL:HG23	1:S:324:LEU:CB	2.28	0.63
1:S:540:ILE:HD12	1:S:582:VAL:HG21	1.79	0.63
1:A:222:SER:OG	1:J:229:GLY:O	2.16	0.63
1:A:251:TYR:HD1	1:D:328:PRO:CB	1.75	0.63
1:A:271:LEU:HB3	1:D:324:LEU:HD11	1.79	0.63
1:A:387:ARG:HH21	1:A:592:ARG:HD3	1.62	0.63
1:A:424:THR:HG23	1:A:425:ILE:HD13	1.79	0.63
1:B:297:ASN:HD22	1:B:298:PRO:HD2	1.62	0.63
1:C:221:ILE:HD11	1:C:258:ALA:O	1.99	0.63
1:D:221:ILE:HD11	1:D:258:ALA:O	1.99	0.63
1:D:540:ILE:HD12	1:D:582:VAL:HG21	1.79	0.63
1:E:540:ILE:HB	1:E:582:VAL:HG13	1.78	0.63
1:F:280:SER:OG	1:F:334:HIS:CE1	2.50	0.63
1:F:387:ARG:HH21	1:F:592:ARG:HD3	1.62	0.63
1:J:610:ARG:HH21	1:J:648:MET:HE2	1.63	0.63
1:K:473:GLN:HB3	1:K:482:SER:HA	1.81	0.63
1:K:661:ILE:HG13	1:K:662:ARG:N	2.12	0.63
1:N:405:ILE:HG12	1:N:492:VAL:HG21	1.80	0.63
1:O:424:THR:HG23	1:O:425:ILE:HD13	1.78	0.63
1:P:613:ASP:HA	1:P:643:LEU:HD23	1.80	0.63
1:R:471:ALA:O	1:R:482:SER:HB2	1.99	0.63
1:S:324:LEU:HD11	1:T:271:LEU:HB3	1.79	0.63
1:S:328:PRO:CD	1:T:252:PRO:HD2	2.06	0.63
1:T:473:GLN:HB3	1:T:482:SER:HA	1.81	0.63
1:A:540:ILE:HD12	1:A:582:VAL:HG21	1.79	0.63
1:C:236:VAL:HG11	1:C:242:PRO:HG3	1.80	0.63
1:C:236:VAL:CG2	1:C:286:SER:HB2	2.29	0.63
1:C:260:GLN:HG3	1:K:261:VAL:HG11	1.79	0.63
1:C:437:VAL:HG11	1:C:439:THR:CG2	2.28	0.63
1:D:405:ILE:HG12	1:D:492:VAL:HG21	1.80	0.63
1:E:437:VAL:HG11	1:E:439:THR:CG2	2.28	0.63
1:F:300:ALA:O	1:F:301:ASN:HB2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:424:THR:HG23	1:F:425:ILE:HD13	1.79	0.63
1:H:437:VAL:O	1:H:461:THR:HB	1.98	0.63
1:H:526:THR:C	1:H:527:LEU:HD23	2.23	0.63
1:I:601:LEU:CD1	1:I:650:ILE:CG1	2.62	0.63
1:K:251:TYR:HD1	1:N:328:PRO:C	1.60	0.63
1:L:471:ALA:O	1:L:482:SER:HB2	1.99	0.63
1:M:437:VAL:O	1:M:461:THR:HB	1.98	0.63
1:M:540:ILE:HD12	1:M:582:VAL:HG21	1.79	0.63
1:M:601:LEU:HD12	1:M:602:PRO:HD2	1.81	0.63
1:N:327:PRO:HG2	1:N:330:SER:HB2	1.81	0.63
1:P:405:ILE:HG12	1:P:492:VAL:HG21	1.80	0.63
1:Q:439:THR:HG1	1:Q:457:ILE:CG1	1.98	0.63
1:S:526:THR:C	1:S:527:LEU:HD23	2.23	0.63
1:T:437:VAL:O	1:T:461:THR:HB	1.98	0.63
1:B:165:GLU:OE1	1:D:325:LEU:HB3	1.91	0.63
1:B:187:ILE:O	1:B:188:LEU:HD23	1.99	0.63
1:B:237:PRO:HG3	1:R:326:LYS:CG	2.28	0.63
1:B:325:LEU:HD23	1:D:165:GLU:CG	2.20	0.63
1:B:473:GLN:HB3	1:B:482:SER:HA	1.81	0.63
1:C:229:GLY:O	1:K:222:SER:OG	2.15	0.63
1:C:255:LEU:HD11	1:K:313:GLU:OE1	1.95	0.63
1:C:300:ALA:O	1:C:301:ASN:HB2	1.99	0.63
1:C:482:SER:O	1:C:483:ASN:HB3	1.99	0.63
1:C:526:THR:C	1:C:527:LEU:HD23	2.23	0.63
1:D:209:VAL:HG23	1:D:324:LEU:CB	2.28	0.63
1:D:526:THR:C	1:D:527:LEU:HD23	2.23	0.63
1:D:661:ILE:HG13	1:D:662:ARG:N	2.12	0.63
1:E:328:PRO:C	1:J:251:TYR:HD1	1.61	0.63
1:F:331:MET:HE3	1:F:332:LEU:N	2.13	0.63
1:G:299:TYR:HE2	1:I:299:TYR:HE2	1.42	0.63
1:H:331:MET:HE3	1:H:332:LEU:N	2.13	0.63
1:H:387:ARG:HH21	1:H:592:ARG:HD3	1.62	0.63
1:H:482:SER:O	1:H:483:ASN:HB3	1.99	0.63
1:I:209:VAL:HG23	1:I:324:LEU:CB	2.28	0.63
1:I:393:VAL:HG22	1:I:408:ALA:HA	1.81	0.63
1:K:236:VAL:CG2	1:K:286:SER:HB2	2.29	0.63
1:K:297:ASN:HD22	1:K:298:PRO:HD2	1.62	0.63
1:L:297:ASN:HD22	1:L:298:PRO:HD2	1.62	0.63
1:L:540:ILE:HB	1:L:582:VAL:HG13	1.78	0.63
1:N:424:THR:HG23	1:N:425:ILE:HD13	1.79	0.63
1:O:482:SER:O	1:O:483:ASN:HB3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:236:VAL:CG2	1:P:286:SER:HB2	2.28	0.63
1:Q:613:ASP:HA	1:Q:643:LEU:HD23	1.80	0.63
1:T:236:VAL:HG11	1:T:242:PRO:HG3	1.80	0.63
1:T:300:ALA:O	1:T:301:ASN:HB2	1.99	0.63
1:A:236:VAL:HG11	1:A:242:PRO:HG3	1.81	0.63
1:B:331:MET:HE3	1:B:332:LEU:N	2.13	0.63
1:B:610:ARG:HH21	1:B:648:MET:HE2	1.63	0.63
1:C:187:ILE:O	1:C:188:LEU:HD23	1.99	0.63
1:C:405:ILE:HG12	1:C:492:VAL:HG21	1.80	0.63
1:C:540:ILE:HD12	1:C:582:VAL:HG21	1.79	0.63
1:C:601:LEU:HD12	1:C:602:PRO:HD2	1.81	0.63
1:E:222:SER:OG	1:L:229:GLY:O	2.16	0.63
1:E:300:ALA:O	1:E:301:ASN:HB2	1.99	0.63
1:F:611:ILE:HD12	1:F:619:PHE:CE1	2.32	0.63
1:G:187:ILE:N	1:G:244:GLN:HE21	1.97	0.63
1:G:297:ASN:HD22	1:G:298:PRO:HD2	1.62	0.63
1:G:565:ILE:HD11	1:G:629:SER:HB3	1.81	0.63
1:I:473:GLN:HB3	1:I:482:SER:HA	1.81	0.63
1:J:236:VAL:HG11	1:J:242:PRO:HG3	1.80	0.63
1:L:598:ASN:HD22	1:L:598:ASN:C	2.07	0.63
1:L:601:LEU:HD12	1:L:602:PRO:HD2	1.81	0.63
1:M:229:GLY:O	1:R:222:SER:OG	2.16	0.63
1:M:260:GLN:HG3	1:R:261:VAL:HG11	1.80	0.63
1:M:327:PRO:HG2	1:M:330:SER:HB2	1.81	0.63
1:N:437:VAL:O	1:N:461:THR:HB	1.98	0.63
1:N:471:ALA:O	1:N:482:SER:HB2	1.99	0.63
1:O:187:ILE:O	1:O:188:LEU:HD23	1.99	0.63
1:O:327:PRO:HG2	1:O:330:SER:HB2	1.81	0.63
1:O:437:VAL:O	1:O:461:THR:HB	1.98	0.63
1:P:261:VAL:HG11	1:Q:260:GLN:HG3	1.79	0.63
1:P:331:MET:HE3	1:P:332:LEU:N	2.13	0.63
1:Q:471:ALA:O	1:Q:482:SER:HB2	1.99	0.63
1:R:331:MET:HE3	1:R:332:LEU:N	2.13	0.63
1:R:601:LEU:HD12	1:R:602:PRO:HD2	1.81	0.63
1:S:393:VAL:HG22	1:S:408:ALA:HA	1.81	0.63
1:S:471:ALA:O	1:S:482:SER:HB2	1.99	0.63
1:T:221:ILE:HD11	1:T:258:ALA:O	1.99	0.63
1:A:237:PRO:HD3	1:D:327:PRO:HD3	1.68	0.63
1:A:387:ARG:HH12	1:E:348:LEU:CD2	2.11	0.63
1:A:613:ASP:HA	1:A:643:LEU:HD23	1.80	0.63
1:B:471:ALA:O	1:B:482:SER:HB2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:187:ILE:N	1:C:244:GLN:HE21	1.97	0.63
1:C:222:SER:OG	1:S:229:GLY:O	2.16	0.63
1:C:297:ASN:HD22	1:C:298:PRO:HD2	1.62	0.63
1:D:327:PRO:HG2	1:D:330:SER:HB2	1.81	0.63
1:D:331:MET:HE3	1:D:332:LEU:N	2.13	0.63
1:D:393:VAL:HG22	1:D:408:ALA:HA	1.81	0.63
1:F:473:GLN:HB3	1:F:482:SER:HA	1.81	0.63
1:G:299:TYR:HE2	1:N:299:TYR:HE2	1.42	0.63
1:G:473:GLN:HB3	1:G:482:SER:HA	1.81	0.63
1:H:402:LYS:HD3	1:H:511:PHE:CG	2.32	0.63
1:H:471:ALA:O	1:H:482:SER:HB2	1.99	0.63
1:H:610:ARG:HH21	1:H:648:MET:HE2	1.63	0.63
1:I:236:VAL:CG2	1:I:286:SER:HB2	2.28	0.63
1:I:260:GLN:HG3	1:M:261:VAL:HG11	1.80	0.63
1:I:437:VAL:HG11	1:I:439:THR:CG2	2.28	0.63
1:J:473:GLN:HB3	1:J:482:SER:HA	1.81	0.63
1:K:187:ILE:N	1:K:244:GLN:HE21	1.97	0.63
1:K:601:LEU:HD12	1:K:602:PRO:HD2	1.81	0.63
1:L:610:ARG:HH21	1:L:648:MET:HE2	1.63	0.63
1:L:661:ILE:HG13	1:L:662:ARG:N	2.12	0.63
1:N:331:MET:HE3	1:N:332:LEU:N	2.13	0.63
1:N:393:VAL:HG22	1:N:408:ALA:HA	1.81	0.63
1:N:482:SER:O	1:N:483:ASN:HB3	1.99	0.63
1:N:565:ILE:HD11	1:N:629:SER:HB3	1.81	0.63
1:N:601:LEU:HD12	1:N:602:PRO:HD2	1.81	0.63
1:O:280:SER:OG	1:O:334:HIS:CE1	2.50	0.63
1:P:187:ILE:N	1:P:244:GLN:HE21	1.97	0.63
1:P:236:VAL:HG11	1:P:242:PRO:HG3	1.80	0.63
1:P:526:THR:C	1:P:527:LEU:HD23	2.23	0.63
1:Q:221:ILE:HD11	1:Q:258:ALA:O	1.99	0.63
1:Q:297:ASN:HD22	1:Q:298:PRO:HD2	1.62	0.63
1:S:297:ASN:HD22	1:S:298:PRO:HD2	1.62	0.63
1:S:482:SER:O	1:S:483:ASN:HB3	1.99	0.63
1:S:610:ARG:HH21	1:S:648:MET:HE2	1.63	0.63
1:T:187:ILE:N	1:T:244:GLN:HE21	1.97	0.63
1:A:402:LYS:HD3	1:A:511:PHE:CG	2.32	0.63
1:A:526:THR:C	1:A:527:LEU:HD23	2.23	0.63
1:A:601:LEU:HD12	1:A:602:PRO:HD2	1.81	0.63
1:C:331:MET:HE3	1:C:332:LEU:N	2.13	0.63
1:D:601:LEU:HD12	1:D:602:PRO:HD2	1.81	0.63
1:D:613:ASP:HA	1:D:643:LEU:HD23	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:221:ILE:HD11	1:E:258:ALA:O	1.99	0.63
1:E:324:LEU:HD11	1:J:271:LEU:HB3	1.79	0.63
1:F:661:ILE:HG13	1:F:662:ARG:N	2.12	0.63
1:G:393:VAL:HG22	1:G:408:ALA:HA	1.81	0.63
1:H:300:ALA:O	1:H:301:ASN:HB2	1.99	0.63
1:I:405:ILE:HG12	1:I:492:VAL:HG21	1.80	0.63
1:I:471:ALA:O	1:I:482:SER:HB2	1.99	0.63
1:I:565:ILE:HD11	1:I:629:SER:HB3	1.81	0.63
1:J:331:MET:HE3	1:J:332:LEU:N	2.13	0.63
1:J:526:THR:C	1:J:527:LEU:HD23	2.23	0.63
1:K:297:ASN:HD22	1:K:297:ASN:C	2.05	0.63
1:K:471:ALA:O	1:K:482:SER:HB2	1.98	0.63
1:L:261:VAL:HG11	1:T:260:GLN:HG3	1.79	0.63
1:M:187:ILE:O	1:M:188:LEU:HD23	1.99	0.63
1:N:526:THR:C	1:N:527:LEU:HD23	2.23	0.63
1:P:393:VAL:HG22	1:P:408:ALA:HA	1.81	0.63
1:P:437:VAL:O	1:P:461:THR:HB	1.98	0.63
1:P:661:ILE:HG13	1:P:662:ARG:N	2.12	0.63
1:Q:661:ILE:HG13	1:Q:662:ARG:N	2.12	0.63
1:R:187:ILE:N	1:R:244:GLN:HE21	1.97	0.63
1:R:300:ALA:O	1:R:301:ASN:HB2	1.99	0.63
1:R:327:PRO:HG2	1:R:330:SER:HB2	1.81	0.63
1:R:393:VAL:HG22	1:R:408:ALA:HA	1.81	0.63
1:S:190:LYS:HB2	1:S:652:LEU:CD1	2.24	0.63
1:S:221:ILE:HD11	1:S:258:ALA:O	1.99	0.63
1:S:236:VAL:HG11	1:S:242:PRO:HG3	1.81	0.63
1:T:187:ILE:O	1:T:188:LEU:HD23	1.99	0.63
1:T:393:VAL:HG22	1:T:408:ALA:HA	1.81	0.63
1:T:565:ILE:HD11	1:T:629:SER:HB3	1.81	0.63
1:A:187:ILE:O	1:A:188:LEU:HD23	1.99	0.63
1:A:275:LEU:CD1	1:L:275:LEU:HG	2.26	0.63
1:B:165:GLU:CG	1:D:325:LEU:HD23	2.20	0.63
1:B:601:LEU:HD12	1:B:602:PRO:HD2	1.81	0.63
1:C:393:VAL:HG22	1:C:408:ALA:HA	1.81	0.63
1:D:300:ALA:O	1:D:301:ASN:HB2	1.99	0.63
1:D:471:ALA:O	1:D:482:SER:HB2	1.99	0.63
1:E:610:ARG:HH21	1:E:648:MET:HE2	1.63	0.63
1:E:661:ILE:HG13	1:E:662:ARG:N	2.12	0.63
1:F:187:ILE:O	1:F:188:LEU:HD23	1.99	0.63
1:G:437:VAL:HG11	1:G:439:THR:CG2	2.29	0.63
1:G:540:ILE:HD12	1:G:582:VAL:HG21	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:313:GLU:OE1	1:O:255:LEU:HD11	1.95	0.63
1:I:613:ASP:HA	1:I:643:LEU:HD23	1.80	0.63
1:J:187:ILE:O	1:J:188:LEU:HD23	1.99	0.63
1:L:327:PRO:HG2	1:L:330:SER:HB2	1.81	0.63
1:M:187:ILE:N	1:M:244:GLN:HE21	1.97	0.63
1:M:393:VAL:HG22	1:M:408:ALA:HA	1.81	0.63
1:M:471:ALA:O	1:M:482:SER:HB2	1.99	0.63
1:O:451:TYR:CD1	1:O:457:ILE:CB	2.77	0.63
1:O:565:ILE:HD11	1:O:629:SER:HB3	1.81	0.63
1:P:473:GLN:HB3	1:P:482:SER:HA	1.81	0.63
1:S:187:ILE:N	1:S:244:GLN:HE21	1.97	0.63
1:S:402:LYS:HD3	1:S:511:PHE:CG	2.32	0.63
1:S:565:ILE:HD11	1:S:629:SER:HB3	1.81	0.63
1:T:327:PRO:HG2	1:T:330:SER:HB2	1.81	0.63
1:A:326:LYS:CG	1:L:237:PRO:HG3	2.28	0.63
1:B:221:ILE:HD11	1:B:258:ALA:O	1.99	0.63
1:B:229:GLY:O	1:Q:222:SER:OG	2.16	0.63
1:B:327:PRO:HG2	1:B:330:SER:HB2	1.81	0.63
1:B:526:THR:C	1:B:527:LEU:HD23	2.23	0.63
1:C:661:ILE:HG13	1:C:662:ARG:N	2.12	0.63
1:D:237:PRO:HG3	1:L:326:LYS:CG	2.28	0.63
1:D:261:VAL:HG11	1:F:260:GLN:HG3	1.80	0.63
1:E:236:VAL:HG11	1:E:242:PRO:HG3	1.81	0.63
1:E:471:ALA:O	1:E:482:SER:HB2	1.99	0.63
1:H:187:ILE:O	1:H:188:LEU:HD23	1.99	0.63
1:I:187:ILE:N	1:I:244:GLN:HE21	1.97	0.63
1:I:221:ILE:HD11	1:I:258:ALA:O	1.99	0.63
1:J:613:ASP:HA	1:J:643:LEU:HD23	1.80	0.63
1:L:507:LYS:H	1:L:508:ILE:HD13	1.62	0.63
1:L:613:ASP:HA	1:L:643:LEU:HD23	1.80	0.63
1:M:451:TYR:CD1	1:M:457:ILE:CA	2.78	0.63
1:O:297:ASN:HD22	1:O:297:ASN:C	2.05	0.63
1:O:601:LEU:HD12	1:O:602:PRO:HD2	1.80	0.63
1:P:222:SER:OG	1:Q:229:GLY:O	2.16	0.63
1:P:610:ARG:HH21	1:P:648:MET:HE2	1.63	0.63
1:T:297:ASN:HD22	1:T:298:PRO:HD2	1.62	0.63
1:T:601:LEU:HD12	1:T:602:PRO:HD2	1.81	0.63
1:A:331:MET:HE3	1:A:332:LEU:N	2.13	0.62
1:B:190:LYS:HB2	1:B:652:LEU:CD1	2.24	0.62
1:B:236:VAL:HG11	1:B:242:PRO:HG3	1.80	0.62
1:B:260:GLN:HG3	1:Q:261:VAL:HG11	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:187:ILE:O	1:D:188:LEU:HD23	1.99	0.62
1:D:187:ILE:N	1:D:244:GLN:HE21	1.97	0.62
1:D:236:VAL:HG11	1:D:242:PRO:HG3	1.81	0.62
1:E:222:SER:OG	1:L:229:GLY:N	2.30	0.62
1:E:605:SER:CB	1:E:650:ILE:HG21	2.29	0.62
1:F:275:LEU:CD1	1:R:275:LEU:HG	2.26	0.62
1:G:605:SER:CB	1:G:650:ILE:HG21	2.29	0.62
1:I:297:ASN:HD22	1:I:298:PRO:HD2	1.62	0.62
1:I:526:THR:C	1:I:527:LEU:HD23	2.23	0.62
1:I:601:LEU:HD12	1:I:602:PRO:HD2	1.81	0.62
1:I:661:ILE:HG13	1:I:662:ARG:N	2.12	0.62
1:J:598:ASN:C	1:J:598:ASN:HD22	2.07	0.62
1:L:437:VAL:HG11	1:L:439:THR:CG2	2.28	0.62
1:M:610:ARG:HH21	1:M:648:MET:HE2	1.63	0.62
1:O:221:ILE:HD11	1:O:258:ALA:O	1.99	0.62
1:P:482:SER:O	1:P:483:ASN:HB3	1.99	0.62
1:Q:300:ALA:O	1:Q:301:ASN:HB2	1.99	0.62
1:R:209:VAL:HG23	1:R:324:LEU:CB	2.28	0.62
1:R:236:VAL:CG2	1:R:286:SER:HB2	2.28	0.62
1:R:280:SER:OG	1:R:334:HIS:CE1	2.50	0.62
1:S:437:VAL:HG11	1:S:439:THR:CG2	2.28	0.62
1:A:221:ILE:HD11	1:A:258:ALA:O	1.99	0.62
1:A:610:ARG:HH21	1:A:648:MET:HE2	1.63	0.62
1:B:187:ILE:N	1:B:244:GLN:HE21	1.97	0.62
1:B:271:LEU:CB	1:R:324:LEU:HD22	2.26	0.62
1:B:273:SER:O	1:R:276:TYR:CD1	2.53	0.62
1:B:324:LEU:HD22	1:F:271:LEU:CB	2.27	0.62
1:D:507:LYS:H	1:D:508:ILE:HD13	1.62	0.62
1:E:261:VAL:HG11	1:L:260:GLN:HG3	1.80	0.62
1:E:482:SER:O	1:E:483:ASN:HB3	1.99	0.62
1:E:565:ILE:HD11	1:E:629:SER:HB3	1.81	0.62
1:F:437:VAL:HG11	1:F:439:THR:CG2	2.28	0.62
1:F:605:SER:CB	1:F:650:ILE:HG21	2.29	0.62
1:G:187:ILE:O	1:G:188:LEU:HD23	1.99	0.62
1:G:405:ILE:HG12	1:G:492:VAL:HG21	1.80	0.62
1:G:471:ALA:O	1:G:482:SER:HB2	1.99	0.62
1:I:187:ILE:O	1:I:188:LEU:HD23	1.99	0.62
1:I:398:LYS:H	1:I:403:LEU:HD23	1.59	0.62
1:I:424:THR:HG23	1:I:425:ILE:HD13	1.79	0.62
1:K:300:ALA:O	1:K:301:ASN:HB2	1.99	0.62
1:K:405:ILE:HG12	1:K:492:VAL:HG21	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:393:VAL:HG22	1:L:408:ALA:HA	1.81	0.62
1:L:482:SER:O	1:L:483:ASN:HB3	1.99	0.62
1:L:565:ILE:HD11	1:L:629:SER:HB3	1.81	0.62
1:M:482:SER:O	1:M:483:ASN:HB3	1.99	0.62
1:N:437:VAL:HG11	1:N:439:THR:CG2	2.28	0.62
1:N:613:ASP:HA	1:N:643:LEU:HD23	1.80	0.62
1:O:297:ASN:HD22	1:O:298:PRO:HD2	1.62	0.62
1:Q:187:ILE:N	1:Q:244:GLN:HE21	1.97	0.62
1:R:613:ASP:HA	1:R:643:LEU:HD23	1.80	0.62
1:A:300:ALA:O	1:A:301:ASN:HB2	1.99	0.62
1:C:261:VAL:HG11	1:S:260:GLN:HG3	1.80	0.62
1:E:187:ILE:O	1:E:188:LEU:HD23	1.99	0.62
1:E:297:ASN:HD22	1:E:298:PRO:HD2	1.63	0.62
1:E:598:ASN:HD22	1:E:598:ASN:C	2.07	0.62
1:F:236:VAL:CG2	1:F:286:SER:HB2	2.28	0.62
1:F:324:LEU:HD11	1:R:271:LEU:HB3	1.79	0.62
1:F:471:ALA:O	1:F:482:SER:HB2	1.99	0.62
1:F:482:SER:O	1:F:483:ASN:HB3	1.99	0.62
1:F:598:ASN:C	1:F:598:ASN:HD22	2.07	0.62
1:F:613:ASP:HA	1:F:643:LEU:HD23	1.80	0.62
1:G:221:ILE:HD11	1:G:258:ALA:O	1.99	0.62
1:G:331:MET:HE3	1:G:332:LEU:N	2.13	0.62
1:J:605:SER:CB	1:J:650:ILE:HG21	2.29	0.62
1:M:605:SER:CB	1:M:650:ILE:HG21	2.29	0.62
1:N:351:GLY:HA3	1:N:584:ASN:OD1	2.00	0.62
1:N:517:ASN:C	1:N:519:ASP:H	2.08	0.62
1:O:187:ILE:N	1:O:244:GLN:HE21	1.97	0.62
1:O:300:ALA:O	1:O:301:ASN:HB2	1.99	0.62
1:O:471:ALA:O	1:O:482:SER:HB2	1.99	0.62
1:O:473:GLN:HB3	1:O:482:SER:HA	1.81	0.62
1:Q:327:PRO:HG2	1:Q:330:SER:HB2	1.81	0.62
1:Q:482:SER:O	1:Q:483:ASN:HB3	1.99	0.62
1:R:187:ILE:O	1:R:188:LEU:HD23	1.99	0.62
1:R:405:ILE:HG12	1:R:492:VAL:HG21	1.80	0.62
1:S:598:ASN:C	1:S:598:ASN:HD22	2.07	0.62
1:T:351:GLY:HA3	1:T:584:ASN:OD1	2.00	0.62
1:T:613:ASP:HA	1:T:643:LEU:HD23	1.80	0.62
1:A:313:GLU:OE1	1:J:255:LEU:HD11	1.95	0.62
1:B:271:LEU:HB3	1:R:324:LEU:HD11	1.79	0.62
1:C:613:ASP:HA	1:C:643:LEU:HD23	1.80	0.62
1:D:473:GLN:HB3	1:D:482:SER:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:275:LEU:HD12	1:J:275:LEU:HA	1.66	0.62
1:F:276:TYR:CD1	1:R:273:SER:O	2.52	0.62
1:F:351:GLY:HA3	1:F:584:ASN:OD1	2.00	0.62
1:F:451:TYR:CD1	1:F:457:ILE:CB	2.77	0.62
1:F:601:LEU:HD12	1:F:602:PRO:HD2	1.81	0.62
1:G:300:ALA:O	1:G:301:ASN:HB2	1.99	0.62
1:I:236:VAL:HG11	1:I:242:PRO:HG3	1.80	0.62
1:I:437:VAL:CG1	1:I:438:THR:N	2.34	0.62
1:K:221:ILE:HD11	1:K:258:ALA:O	1.99	0.62
1:K:437:VAL:O	1:K:461:THR:HB	1.98	0.62
1:K:482:SER:O	1:K:483:ASN:HB3	1.99	0.62
1:L:187:ILE:O	1:L:188:LEU:HD23	1.99	0.62
1:L:517:ASN:C	1:L:519:ASP:H	2.08	0.62
1:M:221:ILE:HD11	1:M:258:ALA:O	1.99	0.62
1:N:402:LYS:HD3	1:N:511:PHE:CG	2.32	0.62
1:O:190:LYS:HB2	1:O:652:LEU:CD1	2.24	0.62
1:P:300:ALA:O	1:P:301:ASN:HB2	1.99	0.62
1:Q:393:VAL:HG22	1:Q:408:ALA:HA	1.81	0.62
1:Q:437:VAL:HG11	1:Q:439:THR:CG2	2.28	0.62
1:R:473:GLN:HB3	1:R:482:SER:HA	1.81	0.62
1:S:351:GLY:HA3	1:S:584:ASN:OD1	2.00	0.62
1:S:473:GLN:HB3	1:S:482:SER:HA	1.81	0.62
1:A:271:LEU:CB	1:D:324:LEU:HD22	2.26	0.62
1:A:471:ALA:O	1:A:482:SER:HB2	1.99	0.62
1:B:387:ARG:HH12	1:D:348:LEU:CD2	2.11	0.62
1:B:405:ILE:HG12	1:B:492:VAL:HG21	1.80	0.62
1:C:605:SER:CB	1:C:650:ILE:HG21	2.29	0.62
1:D:190:LYS:HB3	1:D:652:LEU:CD1	2.30	0.62
1:E:187:ILE:N	1:E:244:GLN:HE21	1.97	0.62
1:E:229:GLY:O	1:O:222:SER:OG	2.16	0.62
1:E:405:ILE:HG12	1:E:492:VAL:HG21	1.80	0.62
1:F:221:ILE:HD11	1:F:258:ALA:O	1.99	0.62
1:F:324:LEU:HD22	1:R:271:LEU:CB	2.26	0.62
1:G:297:ASN:HD22	1:G:297:ASN:C	2.05	0.62
1:H:187:ILE:N	1:H:244:GLN:HE21	1.97	0.62
1:H:221:ILE:HD11	1:H:258:ALA:O	1.99	0.62
1:H:601:LEU:HD12	1:H:602:PRO:HD2	1.81	0.62
1:J:300:ALA:O	1:J:301:ASN:HB2	1.99	0.62
1:J:471:ALA:O	1:J:482:SER:HB2	1.99	0.62
1:K:237:PRO:HG3	1:N:326:LYS:CG	2.28	0.62
1:K:610:ARG:HH21	1:K:648:MET:HE2	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:236:VAL:HG11	1:L:242:PRO:HG3	1.80	0.62
1:M:300:ALA:O	1:M:301:ASN:HB2	1.99	0.62
1:M:565:ILE:HD11	1:M:629:SER:HB3	1.81	0.62
1:N:451:TYR:CD1	1:N:457:ILE:CB	2.77	0.62
1:P:221:ILE:HD11	1:P:258:ALA:O	1.99	0.62
1:Q:351:GLY:HA3	1:Q:584:ASN:OD1	1.99	0.62
1:Q:517:ASN:C	1:Q:519:ASP:H	2.08	0.62
1:R:297:ASN:HD22	1:R:298:PRO:HD2	1.62	0.62
1:R:401:GLU:CD	1:R:402:LYS:N	2.58	0.62
1:S:300:ALA:O	1:S:301:ASN:HB2	1.99	0.62
1:S:601:LEU:HD12	1:S:602:PRO:HD2	1.81	0.62
1:T:471:ALA:O	1:T:482:SER:HB2	1.99	0.62
1:A:222:SER:OG	1:J:229:GLY:N	2.30	0.62
1:B:236:VAL:CG2	1:B:286:SER:HB2	2.28	0.62
1:B:613:ASP:HA	1:B:643:LEU:HD23	1.80	0.62
1:H:190:LYS:HB3	1:H:652:LEU:CD1	2.30	0.62
1:H:351:GLY:HA3	1:H:584:ASN:OD1	2.00	0.62
1:I:351:GLY:HA3	1:I:584:ASN:OD1	2.00	0.62
1:J:187:ILE:N	1:J:244:GLN:HE21	1.97	0.62
1:J:351:GLY:HA3	1:J:584:ASN:OD1	2.00	0.62
1:K:187:ILE:O	1:K:188:LEU:HD23	1.99	0.62
1:K:401:GLU:CD	1:K:402:LYS:N	2.58	0.62
1:K:565:ILE:HD11	1:K:629:SER:HB3	1.81	0.62
1:L:221:ILE:HD11	1:L:258:ALA:O	1.99	0.62
1:L:401:GLU:CD	1:L:402:LYS:N	2.58	0.62
1:N:187:ILE:O	1:N:188:LEU:HD23	1.99	0.62
1:N:221:ILE:HD11	1:N:258:ALA:O	1.99	0.62
1:N:401:GLU:CD	1:N:402:LYS:N	2.58	0.62
1:R:190:LYS:HB3	1:R:652:LEU:CD1	2.30	0.62
1:R:598:ASN:C	1:R:598:ASN:HD22	2.07	0.62
1:S:276:TYR:CD1	1:T:273:SER:O	2.53	0.62
1:S:327:PRO:HG2	1:S:330:SER:HB2	1.81	0.62
1:A:225:GLY:O	1:B:225:GLY:CA	2.48	0.62
1:B:605:SER:CB	1:B:650:ILE:HG21	2.29	0.62
1:C:351:GLY:HA3	1:C:584:ASN:OD1	2.00	0.62
1:C:401:GLU:CD	1:C:402:LYS:N	2.58	0.62
1:C:471:ALA:O	1:C:482:SER:HB2	1.99	0.62
1:D:273:SER:O	1:L:276:TYR:CD1	2.53	0.62
1:E:276:TYR:CD1	1:J:273:SER:O	2.53	0.62
1:G:236:VAL:HG11	1:G:242:PRO:HG3	1.80	0.62
1:G:260:GLN:HG3	1:I:261:VAL:HG11	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:401:GLU:CD	1:G:402:LYS:N	2.58	0.62
1:G:610:ARG:HH21	1:G:648:MET:HE2	1.63	0.62
1:I:401:GLU:CD	1:I:402:LYS:N	2.58	0.62
1:K:427:SER:HG	1:K:429:LEU:HD21	1.63	0.62
1:K:613:ASP:HA	1:K:643:LEU:HD23	1.80	0.62
1:M:236:VAL:HG11	1:M:242:PRO:HG3	1.81	0.62
1:M:402:LYS:HD3	1:M:511:PHE:CG	2.32	0.62
1:M:405:ILE:HG12	1:M:492:VAL:HG21	1.80	0.62
1:O:405:ILE:HG12	1:O:492:VAL:HG21	1.80	0.62
1:P:351:GLY:HA3	1:P:584:ASN:OD1	2.00	0.62
1:Q:356:THR:HG1	1:Q:569:ASN:CG	2.07	0.62
1:S:401:GLU:CD	1:S:402:LYS:N	2.58	0.62
1:A:236:VAL:CG2	1:A:286:SER:HB2	2.28	0.62
1:A:273:SER:O	1:D:276:TYR:CD1	2.53	0.62
1:A:393:VAL:HG22	1:A:408:ALA:HA	1.81	0.62
1:B:275:LEU:CG	1:R:275:LEU:CD1	2.34	0.62
1:E:326:LYS:CG	1:J:237:PRO:HG3	2.28	0.62
1:E:351:GLY:HA3	1:E:584:ASN:OD1	2.00	0.62
1:E:401:GLU:CD	1:E:402:LYS:N	2.58	0.62
1:F:565:ILE:HD11	1:F:629:SER:HB3	1.81	0.62
1:G:613:ASP:HA	1:G:643:LEU:HD23	1.80	0.62
1:I:221:ILE:HD11	1:I:258:ALA:CA	2.30	0.62
1:J:482:SER:O	1:J:483:ASN:HB3	1.99	0.62
1:J:601:LEU:HD12	1:J:602:PRO:HD2	1.81	0.62
1:K:273:SER:O	1:N:276:TYR:CD1	2.53	0.62
1:K:356:THR:HG1	1:K:569:ASN:CG	2.08	0.62
1:L:221:ILE:HD11	1:L:258:ALA:CA	2.30	0.62
1:L:236:VAL:CG2	1:L:286:SER:HB2	2.29	0.62
1:M:221:ILE:HD11	1:M:258:ALA:CA	2.30	0.62
1:M:226:VAL:HA	1:R:226:VAL:CG2	2.27	0.62
1:M:273:SER:O	1:Q:276:TYR:CD1	2.53	0.62
1:M:437:VAL:HG11	1:M:439:THR:CG2	2.28	0.62
1:N:187:ILE:N	1:N:244:GLN:HE21	1.97	0.62
1:N:280:SER:HG	1:N:334:HIS:CE1	1.99	0.62
1:P:187:ILE:O	1:P:188:LEU:HD23	1.99	0.62
1:Q:402:LYS:HD3	1:Q:511:PHE:CG	2.32	0.62
1:Q:598:ASN:C	1:Q:598:ASN:HD22	2.07	0.62
1:R:482:SER:O	1:R:483:ASN:HB3	1.99	0.62
1:A:276:TYR:CD1	1:L:273:SER:O	2.53	0.62
1:A:327:PRO:HG2	1:A:330:SER:HB2	1.81	0.62
1:C:327:PRO:HG2	1:C:330:SER:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:351:GLY:HA3	1:D:584:ASN:OD1	2.00	0.62
1:E:327:PRO:HG2	1:E:330:SER:HB2	1.81	0.62
1:E:393:VAL:HG22	1:E:408:ALA:HA	1.81	0.62
1:E:473:GLN:HB3	1:E:482:SER:HA	1.81	0.62
1:E:613:ASP:HA	1:E:643:LEU:HD23	1.80	0.62
1:F:187:ILE:N	1:F:244:GLN:HE21	1.97	0.62
1:I:225:GLY:O	1:M:225:GLY:CA	2.48	0.62
1:I:297:ASN:HD22	1:I:297:ASN:C	2.05	0.62
1:K:327:PRO:HG2	1:K:330:SER:HB2	1.81	0.62
1:M:237:PRO:HG3	1:Q:326:LYS:CG	2.28	0.62
1:M:331:MET:HE3	1:M:332:LEU:N	2.13	0.62
1:O:236:VAL:HG11	1:O:242:PRO:HG3	1.80	0.62
1:O:598:ASN:C	1:O:598:ASN:HD22	2.07	0.62
1:P:471:ALA:O	1:P:482:SER:HB2	1.99	0.62
1:Q:401:GLU:CD	1:Q:402:LYS:N	2.58	0.62
1:T:190:LYS:HB3	1:T:652:LEU:CD1	2.30	0.62
1:T:331:MET:HE3	1:T:332:LEU:N	2.13	0.62
1:T:437:VAL:HG11	1:T:439:THR:CG2	2.28	0.62
1:A:598:ASN:HD22	1:A:598:ASN:C	2.07	0.62
1:B:351:GLY:HA3	1:B:584:ASN:OD1	2.00	0.62
1:B:510:VAL:CG1	1:B:511:PHE:N	2.45	0.62
1:C:225:GLY:CA	1:S:225:GLY:O	2.48	0.62
1:E:221:ILE:HD11	1:E:258:ALA:CA	2.30	0.62
1:E:331:MET:HE3	1:E:332:LEU:N	2.13	0.62
1:E:356:THR:OG1	1:E:569:ASN:OD1	2.18	0.62
1:E:601:LEU:HD12	1:E:602:PRO:HD2	1.80	0.62
1:F:356:THR:OG1	1:F:569:ASN:OD1	2.18	0.62
1:G:601:LEU:HD12	1:G:602:PRO:HD2	1.81	0.62
1:I:402:LYS:HD3	1:I:511:PHE:CG	2.32	0.62
1:I:482:SER:O	1:I:483:ASN:HB3	1.99	0.62
1:J:225:GLY:CA	1:P:225:GLY:O	2.48	0.62
1:J:393:VAL:HG22	1:J:408:ALA:HA	1.81	0.62
1:N:532:TYR:CD2	1:N:540:ILE:HD11	2.35	0.62
1:O:351:GLY:HA3	1:O:584:ASN:OD1	2.00	0.62
1:O:601:LEU:CD1	1:O:650:ILE:CG1	2.62	0.62
1:T:610:ARG:HH21	1:T:648:MET:HE2	1.63	0.62
1:A:261:VAL:HG11	1:J:260:GLN:HG3	1.80	0.61
1:A:325:LEU:HD23	1:E:165:GLU:OE1	1.94	0.61
1:A:482:SER:O	1:A:483:ASN:HB3	1.99	0.61
1:B:190:LYS:HB3	1:B:652:LEU:CD1	2.30	0.61
1:B:300:ALA:O	1:B:301:ASN:HB2	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:562:ASN:OD1	1:C:657:LEU:HG	2.00	0.61
1:C:565:ILE:HD11	1:C:629:SER:HB3	1.81	0.61
1:D:229:GLY:N	1:S:222:SER:OG	2.30	0.61
1:D:565:ILE:HD11	1:D:629:SER:HB3	1.81	0.61
1:E:225:GLY:O	1:O:225:GLY:CA	2.48	0.61
1:F:222:SER:OG	1:K:229:GLY:O	2.16	0.61
1:F:327:PRO:HG2	1:F:330:SER:HB2	1.81	0.61
1:G:351:GLY:HA3	1:G:584:ASN:OD1	2.00	0.61
1:H:236:VAL:HG11	1:H:242:PRO:HG3	1.81	0.61
1:I:300:ALA:O	1:I:301:ASN:HB2	1.99	0.61
1:J:327:PRO:HG2	1:J:330:SER:HB2	1.81	0.61
1:J:401:GLU:CD	1:J:402:LYS:N	2.58	0.61
1:K:236:VAL:HG11	1:K:242:PRO:HG3	1.80	0.61
1:L:222:SER:OG	1:T:229:GLY:N	2.30	0.61
1:L:325:LEU:HD23	1:S:165:GLU:CG	2.20	0.61
1:M:190:LYS:HB3	1:M:652:LEU:CD1	2.30	0.61
1:N:427:SER:OG	1:N:429:LEU:HD22	1.99	0.61
1:P:601:LEU:HD12	1:P:602:PRO:HD2	1.81	0.61
1:Q:565:ILE:HD11	1:Q:629:SER:HB3	1.81	0.61
1:R:351:GLY:HA3	1:R:584:ASN:OD1	2.00	0.61
1:A:187:ILE:N	1:A:244:GLN:HE21	1.97	0.61
1:A:562:ASN:OD1	1:A:657:LEU:HG	2.01	0.61
1:B:276:TYR:CD1	1:F:273:SER:O	2.53	0.61
1:C:356:THR:OG1	1:C:569:ASN:OD1	2.18	0.61
1:E:297:ASN:HD22	1:E:297:ASN:C	2.05	0.61
1:H:297:ASN:HD22	1:H:297:ASN:C	2.05	0.61
1:H:297:ASN:HD22	1:H:298:PRO:HD2	1.63	0.61
1:H:327:PRO:HG2	1:H:330:SER:HB2	1.81	0.61
1:H:473:GLN:HB3	1:H:482:SER:HA	1.81	0.61
1:I:190:LYS:HB3	1:I:652:LEU:CD1	2.30	0.61
1:I:356:THR:HG1	1:I:569:ASN:CG	2.06	0.61
1:K:190:LYS:HB3	1:K:652:LEU:CD1	2.30	0.61
1:K:356:THR:OG1	1:K:569:ASN:OD1	2.18	0.61
1:L:300:ALA:O	1:L:301:ASN:HB2	1.99	0.61
1:M:517:ASN:C	1:M:519:ASP:H	2.08	0.61
1:N:190:LYS:HB3	1:N:652:LEU:CD1	2.30	0.61
1:N:313:GLU:OE1	1:R:255:LEU:HD11	1.95	0.61
1:N:562:ASN:OD1	1:N:657:LEU:HG	2.00	0.61
1:O:401:GLU:CD	1:O:402:LYS:N	2.58	0.61
1:P:598:ASN:HD22	1:P:598:ASN:C	2.07	0.61
1:Q:236:VAL:HG11	1:Q:242:PRO:HG3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:504:ASN:CB	1:Q:505:PRO:HD2	2.19	0.61
1:S:187:ILE:O	1:S:188:LEU:HD23	1.99	0.61
1:S:356:THR:OG1	1:S:569:ASN:OD1	2.18	0.61
1:T:280:SER:HG	1:T:334:HIS:CE1	1.99	0.61
1:T:532:TYR:CD2	1:T:540:ILE:HD11	2.36	0.61
1:A:473:GLN:HB3	1:A:482:SER:HA	1.81	0.61
1:B:562:ASN:OD1	1:B:657:LEU:HG	2.00	0.61
1:C:598:ASN:C	1:C:598:ASN:HD22	2.07	0.61
1:D:297:ASN:HD22	1:D:298:PRO:HD2	1.62	0.61
1:F:297:ASN:HD22	1:F:297:ASN:C	2.05	0.61
1:F:387:ARG:HH12	1:N:348:LEU:CD2	2.11	0.61
1:F:393:VAL:HG22	1:F:408:ALA:HA	1.81	0.61
1:H:225:GLY:O	1:T:225:GLY:CA	2.48	0.61
1:H:401:GLU:CD	1:H:402:LYS:N	2.58	0.61
1:H:565:ILE:HD11	1:H:629:SER:HB3	1.81	0.61
1:I:327:PRO:HG2	1:I:330:SER:HB2	1.81	0.61
1:I:598:ASN:HD22	1:I:598:ASN:C	2.07	0.61
1:J:565:ILE:HD11	1:J:629:SER:HB3	1.81	0.61
1:K:351:GLY:HA3	1:K:584:ASN:OD1	2.00	0.61
1:L:187:ILE:N	1:L:244:GLN:HE21	1.97	0.61
1:L:351:GLY:HA3	1:L:584:ASN:OD1	2.00	0.61
1:M:532:TYR:CD2	1:M:540:ILE:HD11	2.35	0.61
1:M:598:ASN:C	1:M:598:ASN:HD22	2.07	0.61
1:P:401:GLU:CD	1:P:402:LYS:N	2.58	0.61
1:P:517:ASN:C	1:P:519:ASP:H	2.08	0.61
1:Q:187:ILE:O	1:Q:188:LEU:HD23	1.99	0.61
1:Q:348:LEU:CD2	1:R:387:ARG:HH12	2.11	0.61
1:R:221:ILE:HD11	1:R:258:ALA:O	1.99	0.61
1:R:532:TYR:CD2	1:R:540:ILE:HD11	2.35	0.61
1:S:562:ASN:OD1	1:S:657:LEU:HG	2.01	0.61
1:A:324:LEU:HD22	1:L:271:LEU:CB	2.27	0.61
1:A:401:GLU:CD	1:A:402:LYS:N	2.58	0.61
1:B:401:GLU:CD	1:B:402:LYS:N	2.58	0.61
1:C:190:LYS:HB2	1:C:652:LEU:CD1	2.24	0.61
1:C:402:LYS:HD3	1:C:511:PHE:CG	2.32	0.61
1:D:401:GLU:CD	1:D:402:LYS:N	2.58	0.61
1:D:517:ASN:C	1:D:519:ASP:H	2.08	0.61
1:F:165:GLU:OE1	1:N:325:LEU:HB3	1.92	0.61
1:F:190:LYS:HB3	1:F:652:LEU:CD1	2.30	0.61
1:F:313:GLU:OE1	1:K:255:LEU:HD11	1.95	0.61
1:G:280:SER:OG	1:G:334:HIS:CE1	2.50	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:190:LYS:HB2	1:H:652:LEU:CD1	2.24	0.61
1:I:251:TYR:CG	1:I:252:PRO:HD2	2.36	0.61
1:J:555:GLU:O	1:J:556:THR:HG22	2.01	0.61
1:K:532:TYR:CD2	1:K:540:ILE:HD11	2.36	0.61
1:L:562:ASN:OD1	1:L:657:LEU:HG	2.00	0.61
1:M:351:GLY:HA3	1:M:584:ASN:OD1	2.00	0.61
1:M:473:GLN:HB3	1:M:482:SER:HA	1.81	0.61
1:M:555:GLU:O	1:M:556:THR:HG22	2.01	0.61
1:N:473:GLN:HB3	1:N:482:SER:HA	1.81	0.61
1:N:598:ASN:C	1:N:598:ASN:HD22	2.07	0.61
1:P:562:ASN:OD1	1:P:657:LEU:HG	2.01	0.61
1:Q:280:SER:HG	1:Q:334:HIS:CE1	1.99	0.61
1:R:565:ILE:HD11	1:R:629:SER:HB3	1.81	0.61
1:S:221:ILE:HD11	1:S:258:ALA:CA	2.30	0.61
1:T:221:ILE:HD11	1:T:258:ALA:CA	2.30	0.61
1:T:356:THR:OG1	1:T:569:ASN:OD1	2.18	0.61
1:A:229:GLY:N	1:B:222:SER:OG	2.30	0.61
1:A:351:GLY:HA3	1:A:584:ASN:OD1	2.00	0.61
1:A:565:ILE:HD11	1:A:629:SER:HB3	1.81	0.61
1:B:251:TYR:CG	1:B:252:PRO:HD2	2.36	0.61
1:D:562:ASN:OD1	1:D:657:LEU:HG	2.01	0.61
1:D:598:ASN:HD22	1:D:598:ASN:C	2.07	0.61
1:E:324:LEU:HD22	1:J:271:LEU:CB	2.26	0.61
1:F:236:VAL:HG11	1:F:242:PRO:HG3	1.81	0.61
1:F:401:GLU:CD	1:F:402:LYS:N	2.58	0.61
1:G:562:ASN:OD1	1:G:657:LEU:HG	2.00	0.61
1:H:180:THR:HA	1:H:295:LEU:HB3	1.83	0.61
1:H:532:TYR:CD2	1:H:540:ILE:HD11	2.36	0.61
1:H:598:ASN:HD22	1:H:598:ASN:C	2.07	0.61
1:I:532:TYR:CD2	1:I:540:ILE:HD11	2.36	0.61
1:L:473:GLN:HB3	1:L:482:SER:HA	1.81	0.61
1:O:180:THR:HA	1:O:295:LEU:HB3	1.83	0.61
1:O:393:VAL:HG22	1:O:408:ALA:HA	1.81	0.61
1:P:327:PRO:HG2	1:P:330:SER:HB2	1.81	0.61
1:Q:356:THR:OG1	1:Q:569:ASN:OD1	2.18	0.61
1:R:451:TYR:CD1	1:R:457:ILE:CB	2.77	0.61
1:T:598:ASN:HD22	1:T:598:ASN:C	2.07	0.61
1:A:251:TYR:CG	1:A:252:PRO:HD2	2.36	0.61
1:A:299:TYR:N	1:A:299:TYR:CD1	2.69	0.61
1:B:356:THR:OG1	1:B:569:ASN:OD1	2.18	0.61
1:F:221:ILE:HD11	1:F:258:ALA:CA	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:326:LYS:CG	1:R:237:PRO:HG3	2.28	0.61
1:F:427:SER:HG	1:F:429:LEU:HD21	1.64	0.61
1:G:251:TYR:CG	1:G:252:PRO:HD2	2.36	0.61
1:G:299:TYR:N	1:G:299:TYR:CD1	2.69	0.61
1:G:362:VAL:HG12	1:G:364:ARG:HG2	1.83	0.61
1:H:222:SER:CB	1:O:230:LYS:HG2	2.30	0.61
1:H:605:SER:CB	1:H:650:ILE:HG21	2.29	0.61
1:I:299:TYR:N	1:I:299:TYR:CD1	2.69	0.61
1:J:362:VAL:HG12	1:J:364:ARG:HG2	1.83	0.61
1:M:401:GLU:CD	1:M:402:LYS:N	2.58	0.61
1:N:222:SER:CB	1:R:230:LYS:HG2	2.30	0.61
1:N:236:VAL:HG11	1:N:242:PRO:HG3	1.81	0.61
1:P:363:ILE:O	1:P:363:ILE:HD12	2.01	0.61
1:P:565:ILE:HD11	1:P:629:SER:HB3	1.81	0.61
1:R:562:ASN:OD1	1:R:657:LEU:HG	2.00	0.61
1:S:251:TYR:CG	1:S:252:PRO:HD2	2.36	0.61
1:A:517:ASN:C	1:A:519:ASP:H	2.08	0.61
1:B:255:LEU:HD11	1:Q:313:GLU:OE1	1.95	0.61
1:C:612:ILE:O	1:C:612:ILE:HG13	2.01	0.61
1:D:221:ILE:HD11	1:D:258:ALA:CA	2.30	0.61
1:D:532:TYR:CD2	1:D:540:ILE:HD11	2.36	0.61
1:E:229:GLY:N	1:O:222:SER:OG	2.30	0.61
1:F:251:TYR:CG	1:F:252:PRO:HD2	2.36	0.61
1:F:504:ASN:CB	1:F:505:PRO:HD2	2.19	0.61
1:G:190:LYS:HB3	1:G:652:LEU:CD1	2.29	0.61
1:G:327:PRO:HG2	1:G:330:SER:HB2	1.81	0.61
1:G:532:TYR:CD2	1:G:540:ILE:HD11	2.36	0.61
1:I:180:THR:HA	1:I:295:LEU:HB3	1.83	0.61
1:I:280:SER:OG	1:I:334:HIS:CE1	2.50	0.61
1:K:393:VAL:HG22	1:K:408:ALA:HA	1.81	0.61
1:K:517:ASN:C	1:K:519:ASP:H	2.08	0.61
1:L:222:SER:CB	1:T:230:LYS:HG2	2.30	0.61
1:L:233:ALA:HA	1:L:289:ILE:HD13	1.83	0.61
1:L:251:TYR:CG	1:L:252:PRO:HD2	2.36	0.61
1:L:363:ILE:O	1:L:363:ILE:HD12	2.01	0.61
1:L:532:TYR:CD2	1:L:540:ILE:HD11	2.36	0.61
1:N:221:ILE:HD11	1:N:258:ALA:CA	2.30	0.61
1:N:605:SER:CB	1:N:650:ILE:HG21	2.29	0.61
1:O:401:GLU:CD	1:O:402:LYS:HG3	2.26	0.61
1:P:190:LYS:HB3	1:P:652:LEU:CD1	2.30	0.61
1:P:251:TYR:CG	1:P:252:PRO:HD2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:532:TYR:CD2	1:P:540:ILE:HD11	2.36	0.61
1:Q:221:ILE:HD11	1:Q:258:ALA:CA	2.30	0.61
1:Q:236:VAL:CG2	1:Q:286:SER:HB2	2.28	0.61
1:Q:562:ASN:OD1	1:Q:657:LEU:HG	2.00	0.61
1:R:356:THR:OG1	1:R:569:ASN:OD1	2.18	0.61
1:T:363:ILE:O	1:T:363:ILE:HD12	2.01	0.61
1:B:186:LYS:H	1:B:290:MET:HG3	1.66	0.61
1:B:251:TYR:CD1	1:R:328:PRO:CB	2.58	0.61
1:B:393:VAL:HG22	1:B:408:ALA:HA	1.81	0.61
1:C:186:LYS:H	1:C:290:MET:HG3	1.66	0.61
1:C:473:GLN:HB3	1:C:482:SER:HA	1.81	0.61
1:D:180:THR:HA	1:D:295:LEU:HB3	1.83	0.61
1:D:427:SER:HG	1:D:429:LEU:HD21	1.59	0.61
1:E:555:GLU:O	1:E:556:THR:HG22	2.01	0.61
1:E:612:ILE:O	1:E:612:ILE:HG13	2.01	0.61
1:F:401:GLU:CD	1:F:402:LYS:HG3	2.26	0.61
1:F:532:TYR:CD2	1:F:540:ILE:HD11	2.36	0.61
1:K:362:VAL:HG12	1:K:364:ARG:HG2	1.83	0.61
1:M:236:VAL:CG2	1:M:286:SER:HB2	2.29	0.61
1:O:186:LYS:H	1:O:290:MET:HG3	1.66	0.61
1:O:363:ILE:O	1:O:363:ILE:HD12	2.01	0.61
1:O:562:ASN:OD1	1:O:657:LEU:HG	2.00	0.61
1:Q:363:ILE:HD12	1:Q:363:ILE:O	2.01	0.61
1:Q:601:LEU:HD12	1:Q:602:PRO:HD2	1.81	0.61
1:S:612:ILE:O	1:S:612:ILE:HG13	2.01	0.61
1:T:482:SER:O	1:T:483:ASN:HB3	1.99	0.61
1:B:299:TYR:CD1	1:B:299:TYR:N	2.69	0.61
1:B:565:ILE:HD11	1:B:629:SER:HB3	1.81	0.61
1:C:221:ILE:HD11	1:C:258:ALA:CA	2.30	0.61
1:D:222:SER:OG	1:F:229:GLY:N	2.30	0.61
1:G:482:SER:O	1:G:483:ASN:HB3	1.99	0.61
1:H:225:GLY:CA	1:O:225:GLY:O	2.48	0.61
1:H:236:VAL:CG2	1:H:286:SER:HB2	2.29	0.61
1:J:437:VAL:HG11	1:J:439:THR:CG2	2.29	0.61
1:K:251:TYR:CG	1:K:252:PRO:HD2	2.36	0.61
1:K:275:LEU:HG	1:N:275:LEU:CD1	2.26	0.61
1:M:299:TYR:HE2	1:R:299:TYR:HE2	1.43	0.61
1:N:362:VAL:HG12	1:N:364:ARG:HG2	1.83	0.61
1:P:555:GLU:O	1:P:556:THR:HG22	2.01	0.61
1:Q:474:ARG:N	1:Q:524:ASP:HA	2.13	0.61
1:R:186:LYS:H	1:R:290:MET:HG3	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:362:VAL:HG12	1:S:364:ARG:HG2	1.83	0.61
1:S:363:ILE:O	1:S:363:ILE:HD12	2.01	0.61
1:T:297:ASN:HD22	1:T:297:ASN:C	2.05	0.61
1:T:299:TYR:N	1:T:299:TYR:CD1	2.69	0.61
1:T:402:LYS:HD3	1:T:511:PHE:CG	2.32	0.61
1:T:503:ILE:C	1:T:503:ILE:CD1	2.74	0.61
1:A:180:THR:HA	1:A:295:LEU:HB3	1.83	0.61
1:B:402:LYS:HD3	1:B:511:PHE:CG	2.32	0.61
1:B:482:SER:O	1:B:483:ASN:HB3	1.99	0.61
1:B:517:ASN:C	1:B:519:ASP:H	2.08	0.61
1:C:190:LYS:HB3	1:C:652:LEU:CD1	2.30	0.61
1:C:532:TYR:CD2	1:C:540:ILE:HD11	2.36	0.61
1:G:221:ILE:HD11	1:G:258:ALA:CA	2.30	0.61
1:G:517:ASN:C	1:G:519:ASP:H	2.08	0.61
1:H:233:ALA:HA	1:H:289:ILE:HD13	1.83	0.61
1:H:393:VAL:HG22	1:H:408:ALA:HA	1.81	0.61
1:H:503:ILE:C	1:H:503:ILE:CD1	2.74	0.61
1:K:363:ILE:O	1:K:363:ILE:HD12	2.01	0.61
1:L:612:ILE:O	1:L:612:ILE:HG13	2.01	0.61
1:N:186:LYS:H	1:N:290:MET:HG3	1.66	0.61
1:O:251:TYR:CG	1:O:252:PRO:HD2	2.36	0.61
1:S:299:TYR:N	1:S:299:TYR:CD1	2.69	0.61
1:S:532:TYR:CD2	1:S:540:ILE:HD11	2.36	0.61
1:T:186:LYS:H	1:T:290:MET:HG3	1.66	0.61
1:T:401:GLU:CD	1:T:402:LYS:N	2.58	0.61
1:A:532:TYR:CD2	1:A:540:ILE:HD11	2.35	0.60
1:A:605:SER:CB	1:A:650:ILE:HG21	2.29	0.60
1:B:225:GLY:O	1:Q:225:GLY:CA	2.48	0.60
1:B:363:ILE:HD12	1:B:363:ILE:O	2.01	0.60
1:B:598:ASN:C	1:B:598:ASN:HD22	2.07	0.60
1:D:236:VAL:CG2	1:D:286:SER:HB2	2.29	0.60
1:D:401:GLU:CD	1:D:402:LYS:HG3	2.26	0.60
1:D:612:ILE:O	1:D:612:ILE:HG13	2.01	0.60
1:F:562:ASN:OD1	1:F:657:LEU:HG	2.01	0.60
1:G:225:GLY:O	1:I:225:GLY:CA	2.48	0.60
1:G:363:ILE:O	1:G:363:ILE:HD12	2.01	0.60
1:G:402:LYS:HD3	1:G:511:PHE:CG	2.32	0.60
1:G:555:GLU:O	1:G:556:THR:HG22	2.01	0.60
1:H:251:TYR:CG	1:H:252:PRO:HD2	2.36	0.60
1:H:363:ILE:O	1:H:363:ILE:HD12	2.01	0.60
1:I:166:TRP:HA	1:I:169:PHE:CE2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:186:LYS:H	1:J:290:MET:HG3	1.66	0.60
1:J:190:LYS:HB2	1:J:652:LEU:CD1	2.24	0.60
1:K:299:TYR:N	1:K:299:TYR:CD1	2.69	0.60
1:L:299:TYR:N	1:L:299:TYR:CD1	2.69	0.60
1:N:166:TRP:HA	1:N:169:PHE:CE2	2.36	0.60
1:N:251:TYR:CG	1:N:252:PRO:HD2	2.36	0.60
1:O:166:TRP:HA	1:O:169:PHE:CE2	2.36	0.60
1:O:605:SER:CB	1:O:650:ILE:HG21	2.29	0.60
1:Q:532:TYR:CD2	1:Q:540:ILE:HD11	2.36	0.60
1:R:166:TRP:HA	1:R:169:PHE:CE2	2.36	0.60
1:R:180:THR:HA	1:R:295:LEU:HB3	1.83	0.60
1:R:601:LEU:CD1	1:R:650:ILE:CG1	2.62	0.60
1:S:605:SER:CB	1:S:650:ILE:HG21	2.29	0.60
1:T:236:VAL:CG2	1:T:286:SER:HB2	2.28	0.60
1:B:274:THR:C	1:R:275:LEU:CD1	2.66	0.60
1:C:166:TRP:HA	1:C:169:PHE:CE2	2.36	0.60
1:C:280:SER:OG	1:C:334:HIS:CE1	2.50	0.60
1:C:517:ASN:C	1:C:519:ASP:H	2.08	0.60
1:D:230:LYS:HG2	1:S:222:SER:CB	2.30	0.60
1:D:356:THR:OG1	1:D:569:ASN:OD1	2.18	0.60
1:D:482:SER:O	1:D:483:ASN:HB3	1.99	0.60
1:E:255:LEU:HD11	1:O:313:GLU:OE1	1.95	0.60
1:E:517:ASN:C	1:E:519:ASP:H	2.08	0.60
1:F:186:LYS:H	1:F:290:MET:HG3	1.66	0.60
1:F:503:ILE:C	1:F:503:ILE:CD1	2.74	0.60
1:H:186:LYS:H	1:H:290:MET:HG3	1.66	0.60
1:J:180:THR:HA	1:J:295:LEU:HB3	1.83	0.60
1:J:313:GLU:OE1	1:P:255:LEU:HD11	1.95	0.60
1:K:612:ILE:O	1:K:612:ILE:HG13	2.01	0.60
1:M:451:TYR:CD1	1:M:457:ILE:CB	2.77	0.60
1:N:300:ALA:O	1:N:301:ASN:HB2	1.99	0.60
1:N:356:THR:OG1	1:N:569:ASN:OD1	2.18	0.60
1:P:221:ILE:HD11	1:P:258:ALA:CA	2.30	0.60
1:P:313:GLU:OE1	1:Q:255:LEU:HD11	1.95	0.60
1:Q:251:TYR:CG	1:Q:252:PRO:HD2	2.36	0.60
1:Q:473:GLN:HB3	1:Q:482:SER:HA	1.81	0.60
1:R:221:ILE:HD11	1:R:258:ALA:CA	2.30	0.60
1:S:162:VAL:HG12	1:S:164:SER:H	1.66	0.60
1:S:190:LYS:HB3	1:S:652:LEU:CD1	2.30	0.60
1:A:363:ILE:HD12	1:A:363:ILE:O	2.01	0.60
1:C:297:ASN:HD22	1:C:297:ASN:C	2.05	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:555:GLU:O	1:C:556:THR:HG22	2.01	0.60
1:D:166:TRP:HA	1:D:169:PHE:CE2	2.36	0.60
1:G:186:LYS:H	1:G:290:MET:HG3	1.66	0.60
1:G:205:ALA:HA	1:G:322:PHE:HE2	1.67	0.60
1:G:233:ALA:HA	1:G:289:ILE:HD13	1.83	0.60
1:H:362:VAL:HG12	1:H:364:ARG:HG2	1.83	0.60
1:I:362:VAL:HG12	1:I:364:ARG:HG2	1.83	0.60
1:J:251:TYR:CG	1:J:252:PRO:HD2	2.36	0.60
1:J:299:TYR:CD1	1:J:299:TYR:N	2.69	0.60
1:J:363:ILE:HD12	1:J:363:ILE:O	2.01	0.60
1:K:205:ALA:HA	1:K:322:PHE:HE2	1.67	0.60
1:K:562:ASN:OD1	1:K:657:LEU:HG	2.00	0.60
1:L:166:TRP:HA	1:L:169:PHE:CE2	2.37	0.60
1:N:555:GLU:O	1:N:556:THR:HG22	2.01	0.60
1:O:356:THR:OG1	1:O:569:ASN:OD1	2.18	0.60
1:P:225:GLY:CA	1:Q:225:GLY:O	2.48	0.60
1:P:612:ILE:O	1:P:612:ILE:HG13	2.01	0.60
1:Q:362:VAL:HG12	1:Q:364:ARG:HG2	1.83	0.60
1:S:180:THR:HA	1:S:295:LEU:HB3	1.83	0.60
1:T:304:ASN:O	1:T:305:SER:C	2.45	0.60
1:T:562:ASN:OD1	1:T:657:LEU:HG	2.01	0.60
1:B:532:TYR:CD2	1:B:540:ILE:HD11	2.36	0.60
1:B:555:GLU:O	1:B:556:THR:HG22	2.01	0.60
1:C:180:THR:HA	1:C:295:LEU:HB3	1.83	0.60
1:C:601:LEU:CD1	1:C:650:ILE:CG1	2.62	0.60
1:D:252:PRO:HD2	1:L:328:PRO:CD	2.06	0.60
1:D:437:VAL:HG11	1:D:439:THR:CG2	2.29	0.60
1:D:503:ILE:C	1:D:503:ILE:CD1	2.74	0.60
1:E:166:TRP:HA	1:E:169:PHE:CE2	2.37	0.60
1:E:180:THR:HA	1:E:295:LEU:HB3	1.83	0.60
1:G:474:ARG:N	1:G:524:ASP:HA	2.13	0.60
1:I:304:ASN:O	1:I:305:SER:C	2.45	0.60
1:I:562:ASN:OD1	1:I:657:LEU:HG	2.01	0.60
1:K:598:ASN:C	1:K:598:ASN:HD22	2.07	0.60
1:L:304:ASN:O	1:L:305:SER:C	2.45	0.60
1:L:605:SER:CB	1:L:650:ILE:HG21	2.29	0.60
1:P:280:SER:OG	1:P:334:HIS:CE1	2.50	0.60
1:Q:166:TRP:HA	1:Q:169:PHE:CE2	2.36	0.60
1:R:299:TYR:CD1	1:R:299:TYR:N	2.69	0.60
1:S:233:ALA:HA	1:S:289:ILE:HD13	1.83	0.60
1:S:503:ILE:C	1:S:503:ILE:CD1	2.74	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:555:GLU:O	1:S:556:THR:HG22	2.01	0.60
1:A:437:VAL:HG11	1:A:439:THR:CG2	2.28	0.60
1:A:464:LYS:HA	1:A:533:THR:CG2	2.31	0.60
1:B:233:ALA:HA	1:B:289:ILE:HD13	1.83	0.60
1:B:325:LEU:HD23	1:D:165:GLU:OE1	1.94	0.60
1:C:362:VAL:HG12	1:C:364:ARG:HG2	1.83	0.60
1:C:612:ILE:HG22	1:C:618:TRP:HB3	1.84	0.60
1:G:503:ILE:C	1:G:503:ILE:CD1	2.74	0.60
1:H:356:THR:OG1	1:H:569:ASN:OD1	2.18	0.60
1:I:186:LYS:H	1:I:290:MET:HG3	1.66	0.60
1:J:236:VAL:CG2	1:J:286:SER:HB2	2.28	0.60
1:J:304:ASN:O	1:J:305:SER:C	2.45	0.60
1:K:304:ASN:O	1:K:305:SER:C	2.45	0.60
1:M:474:ARG:N	1:M:524:ASP:HA	2.13	0.60
1:M:562:ASN:OD1	1:M:657:LEU:HG	2.01	0.60
1:N:233:ALA:HA	1:N:289:ILE:HD13	1.83	0.60
1:N:299:TYR:CD1	1:N:299:TYR:N	2.69	0.60
1:N:401:GLU:CD	1:N:402:LYS:HG3	2.26	0.60
1:N:504:ASN:CB	1:N:505:PRO:HD2	2.19	0.60
1:P:186:LYS:H	1:P:290:MET:HG3	1.66	0.60
1:P:503:ILE:C	1:P:503:ILE:CD1	2.74	0.60
1:Q:205:ALA:HA	1:Q:322:PHE:HE2	1.67	0.60
1:Q:451:TYR:CE1	1:Q:457:ILE:HB	2.37	0.60
1:R:233:ALA:HA	1:R:289:ILE:HD13	1.83	0.60
1:R:402:LYS:HD3	1:R:511:PHE:CG	2.32	0.60
1:T:251:TYR:CG	1:T:252:PRO:HD2	2.36	0.60
1:T:362:VAL:HG12	1:T:364:ARG:HG2	1.83	0.60
1:T:612:ILE:O	1:T:612:ILE:HG13	2.01	0.60
1:A:162:VAL:HG12	1:A:164:SER:H	1.66	0.60
1:A:186:LYS:H	1:A:290:MET:HG3	1.66	0.60
1:A:205:ALA:HA	1:A:322:PHE:HE2	1.67	0.60
1:A:504:ASN:CB	1:A:505:PRO:HD2	2.19	0.60
1:A:612:ILE:HG22	1:A:618:TRP:HB3	1.84	0.60
1:C:225:GLY:O	1:K:225:GLY:CA	2.48	0.60
1:D:221:ILE:C	1:F:230:LYS:HE2	2.27	0.60
1:D:299:TYR:N	1:D:299:TYR:CD1	2.69	0.60
1:E:299:TYR:N	1:E:299:TYR:CD1	2.69	0.60
1:F:205:ALA:HA	1:F:322:PHE:HE2	1.67	0.60
1:F:555:GLU:O	1:F:556:THR:HG22	2.01	0.60
1:I:503:ILE:C	1:I:503:ILE:CD1	2.74	0.60
1:J:402:LYS:HD3	1:J:511:PHE:CG	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:562:ASN:OD1	1:J:657:LEU:HG	2.01	0.60
1:K:401:GLU:CD	1:K:402:LYS:HG3	2.26	0.60
1:L:297:ASN:HD22	1:L:297:ASN:C	2.05	0.60
1:L:356:THR:OG1	1:L:569:ASN:OD1	2.18	0.60
1:M:225:GLY:O	1:R:225:GLY:CA	2.48	0.60
1:M:288:VAL:HG12	1:M:289:ILE:N	2.17	0.60
1:M:451:TYR:CE1	1:M:457:ILE:HB	2.37	0.60
1:N:503:ILE:C	1:N:503:ILE:CD1	2.74	0.60
1:O:190:LYS:HB3	1:O:652:LEU:CD1	2.30	0.60
1:O:612:ILE:O	1:O:612:ILE:HG13	2.01	0.60
1:P:162:VAL:HG12	1:P:164:SER:H	1.66	0.60
1:P:190:LYS:HB2	1:P:652:LEU:CD1	2.24	0.60
1:P:362:VAL:HG12	1:P:364:ARG:HG2	1.83	0.60
1:Q:304:ASN:O	1:Q:305:SER:C	2.45	0.60
1:Q:325:LEU:HB3	1:R:165:GLU:OE1	1.92	0.60
1:Q:401:GLU:CD	1:Q:402:LYS:HG3	2.26	0.60
1:R:503:ILE:C	1:R:503:ILE:CD1	2.74	0.60
1:S:166:TRP:HA	1:S:169:PHE:CE2	2.36	0.60
1:T:435:TYR:HD1	1:T:575:TYR:HH	1.49	0.60
1:A:451:TYR:CD1	1:A:457:ILE:CB	2.77	0.60
1:B:230:LYS:HE2	1:Q:221:ILE:C	2.27	0.60
1:B:437:VAL:HG11	1:B:439:THR:CG2	2.28	0.60
1:C:229:GLY:N	1:K:222:SER:OG	2.30	0.60
1:C:230:LYS:HE2	1:K:221:ILE:C	2.27	0.60
1:E:275:LEU:CD1	1:J:274:THR:C	2.66	0.60
1:E:395:ILE:H	1:E:395:ILE:CD1	2.15	0.60
1:F:180:THR:HA	1:F:295:LEU:HB3	1.83	0.60
1:F:190:LYS:HB2	1:F:652:LEU:CD1	2.24	0.60
1:H:288:VAL:HG12	1:H:289:ILE:N	2.17	0.60
1:H:451:TYR:CE1	1:H:457:ILE:HB	2.37	0.60
1:J:612:ILE:O	1:J:612:ILE:HG13	2.01	0.60
1:L:205:ALA:HA	1:L:322:PHE:HE2	1.67	0.60
1:L:503:ILE:C	1:L:503:ILE:CD1	2.74	0.60
1:M:230:LYS:HE2	1:R:221:ILE:C	2.27	0.60
1:M:251:TYR:CG	1:M:252:PRO:HD2	2.36	0.60
1:N:221:ILE:C	1:R:230:LYS:HE2	2.27	0.60
1:O:299:TYR:N	1:O:299:TYR:CD1	2.69	0.60
1:P:304:ASN:O	1:P:305:SER:C	2.45	0.60
1:P:342:ILE:CD1	1:P:342:ILE:N	2.58	0.60
1:Q:288:VAL:HG12	1:Q:289:ILE:N	2.17	0.60
1:R:205:ALA:HA	1:R:322:PHE:HE2	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:221:ILE:C	1:J:230:LYS:HE2	2.27	0.60
1:A:230:LYS:HE2	1:B:221:ILE:C	2.27	0.60
1:A:451:TYR:CE1	1:A:457:ILE:HB	2.37	0.60
1:B:166:TRP:HA	1:B:169:PHE:CE2	2.36	0.60
1:B:402:LYS:HD3	1:B:511:PHE:CE2	2.34	0.60
1:C:226:VAL:CG2	1:S:226:VAL:HA	2.27	0.60
1:D:395:ILE:H	1:D:395:ILE:CD1	2.15	0.60
1:E:251:TYR:CG	1:E:252:PRO:HD2	2.36	0.60
1:E:402:LYS:HD3	1:E:511:PHE:CG	2.32	0.60
1:E:532:TYR:CD2	1:E:540:ILE:HD11	2.36	0.60
1:E:652:LEU:O	1:E:655:ILE:HG13	2.02	0.60
1:F:363:ILE:HD12	1:F:363:ILE:O	2.01	0.60
1:H:517:ASN:C	1:H:519:ASP:H	2.08	0.60
1:I:190:LYS:HB2	1:I:652:LEU:CD1	2.24	0.60
1:J:517:ASN:C	1:J:519:ASP:H	2.08	0.60
1:J:612:ILE:HG22	1:J:618:TRP:HB3	1.84	0.60
1:K:166:TRP:HA	1:K:169:PHE:CE2	2.36	0.60
1:K:186:LYS:H	1:K:290:MET:HG3	1.66	0.60
1:K:221:ILE:HD11	1:K:258:ALA:CA	2.30	0.60
1:K:288:VAL:HG12	1:K:289:ILE:N	2.17	0.60
1:M:180:THR:HA	1:M:295:LEU:HB3	1.83	0.60
1:M:237:PRO:HD2	1:Q:327:PRO:HG2	1.84	0.60
1:N:162:VAL:HG12	1:N:164:SER:H	1.66	0.60
1:N:205:ALA:HA	1:N:322:PHE:HE2	1.67	0.60
1:N:652:LEU:O	1:N:655:ILE:HG13	2.02	0.60
1:O:288:VAL:HG12	1:O:289:ILE:N	2.17	0.60
1:P:356:THR:OG1	1:P:569:ASN:OD1	2.18	0.60
1:Q:555:GLU:O	1:Q:556:THR:HG22	2.01	0.60
1:R:251:TYR:CG	1:R:252:PRO:HD2	2.36	0.60
1:R:363:ILE:HD12	1:R:363:ILE:O	2.01	0.60
1:T:233:ALA:HA	1:T:289:ILE:HD13	1.83	0.60
1:A:221:ILE:HD11	1:A:258:ALA:CA	2.30	0.60
1:A:226:VAL:CG2	1:J:226:VAL:HA	2.27	0.60
1:A:237:PRO:HG3	1:D:326:LYS:CG	2.28	0.60
1:A:280:SER:HG	1:A:334:HIS:CE1	1.99	0.60
1:A:288:VAL:HG12	1:A:289:ILE:N	2.17	0.60
1:B:401:GLU:CD	1:B:402:LYS:HG3	2.26	0.60
1:D:225:GLY:O	1:S:225:GLY:CA	2.48	0.60
1:D:225:GLY:CA	1:F:225:GLY:O	2.48	0.60
1:D:271:LEU:HB3	1:L:324:LEU:HD11	1.79	0.60
1:D:288:VAL:HG12	1:D:289:ILE:N	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:221:ILE:C	1:L:230:LYS:HE2	2.27	0.60
1:E:562:ASN:OD1	1:E:657:LEU:HG	2.01	0.60
1:F:166:TRP:HA	1:F:169:PHE:CE2	2.36	0.60
1:G:598:ASN:C	1:G:598:ASN:HD22	2.07	0.60
1:G:612:ILE:HG22	1:G:618:TRP:HB3	1.84	0.60
1:H:221:ILE:C	1:O:230:LYS:HE2	2.27	0.60
1:H:299:TYR:N	1:H:299:TYR:CD1	2.69	0.60
1:I:363:ILE:HD12	1:I:363:ILE:O	2.01	0.60
1:J:288:VAL:HG12	1:J:289:ILE:N	2.17	0.60
1:J:532:TYR:CD2	1:J:540:ILE:HD11	2.36	0.60
1:L:180:THR:HA	1:L:295:LEU:HB3	1.83	0.60
1:M:233:ALA:HA	1:M:289:ILE:HD13	1.83	0.60
1:O:221:ILE:HD11	1:O:258:ALA:CA	2.30	0.60
1:O:362:VAL:HG12	1:O:364:ARG:HG2	1.83	0.60
1:O:517:ASN:C	1:O:519:ASP:H	2.08	0.60
1:O:532:TYR:CD2	1:O:540:ILE:HD11	2.36	0.60
1:O:612:ILE:HG22	1:O:618:TRP:HB3	1.84	0.60
1:P:299:TYR:N	1:P:299:TYR:CD1	2.69	0.60
1:P:605:SER:CB	1:P:650:ILE:HG21	2.29	0.60
1:Q:402:LYS:HD3	1:Q:511:PHE:CE2	2.34	0.60
1:R:288:VAL:HG12	1:R:289:ILE:N	2.17	0.60
1:R:605:SER:CB	1:R:650:ILE:HG21	2.30	0.60
1:S:304:ASN:O	1:S:305:SER:C	2.45	0.60
1:A:165:GLU:OE1	1:E:325:LEU:HB3	1.92	0.60
1:A:395:ILE:H	1:A:395:ILE:CD1	2.15	0.60
1:B:162:VAL:HG12	1:B:164:SER:H	1.66	0.60
1:C:162:VAL:HG12	1:C:164:SER:H	1.66	0.60
1:C:299:TYR:N	1:C:299:TYR:CD1	2.69	0.60
1:C:451:TYR:CE1	1:C:457:ILE:HB	2.37	0.60
1:D:652:LEU:O	1:D:655:ILE:HG13	2.02	0.60
1:G:464:LYS:HA	1:G:533:THR:CG2	2.31	0.60
1:H:612:ILE:HG22	1:H:618:TRP:HB3	1.84	0.60
1:I:230:LYS:HE2	1:M:221:ILE:C	2.27	0.60
1:I:288:VAL:HG12	1:I:289:ILE:N	2.17	0.60
1:I:395:ILE:H	1:I:395:ILE:CD1	2.15	0.60
1:I:464:LYS:HA	1:I:533:THR:CG2	2.31	0.60
1:I:605:SER:CB	1:I:650:ILE:HG21	2.29	0.60
1:K:555:GLU:O	1:K:556:THR:HG22	2.01	0.60
1:L:190:LYS:HB2	1:L:652:LEU:CD1	2.24	0.60
1:L:226:VAL:CG2	1:T:226:VAL:HA	2.27	0.60
1:L:297:ASN:C	1:L:297:ASN:ND2	2.59	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:362:VAL:HG12	1:L:364:ARG:HG2	1.83	0.60
1:M:186:LYS:H	1:M:290:MET:HG3	1.66	0.60
1:M:299:TYR:N	1:M:299:TYR:CD1	2.69	0.60
1:O:474:ARG:N	1:O:524:ASP:HA	2.13	0.60
1:P:166:TRP:HA	1:P:169:PHE:CE2	2.36	0.60
1:P:652:LEU:O	1:P:655:ILE:HG13	2.02	0.60
1:Q:233:ALA:HA	1:Q:289:ILE:HD13	1.83	0.60
1:R:304:ASN:O	1:R:305:SER:C	2.45	0.60
1:S:205:ALA:HA	1:S:322:PHE:HE2	1.66	0.60
1:S:288:VAL:HG12	1:S:289:ILE:N	2.17	0.60
1:A:166:TRP:HA	1:A:169:PHE:CE2	2.36	0.59
1:A:612:ILE:O	1:A:612:ILE:HG13	2.01	0.59
1:C:205:ALA:HA	1:C:322:PHE:HE2	1.66	0.59
1:C:401:GLU:CD	1:C:402:LYS:HG3	2.26	0.59
1:D:362:VAL:HG12	1:D:364:ARG:HG2	1.83	0.59
1:E:233:ALA:HA	1:E:289:ILE:HD13	1.83	0.59
1:F:233:ALA:HA	1:F:289:ILE:HD13	1.83	0.59
1:G:180:THR:HA	1:G:295:LEU:HB3	1.83	0.59
1:G:230:LYS:HE2	1:I:221:ILE:C	2.27	0.59
1:G:288:VAL:HG12	1:G:289:ILE:N	2.17	0.59
1:G:401:GLU:CD	1:G:402:LYS:HG3	2.26	0.59
1:I:233:ALA:HA	1:I:289:ILE:HD13	1.83	0.59
1:I:297:ASN:C	1:I:297:ASN:ND2	2.59	0.59
1:I:401:GLU:CD	1:I:402:LYS:HG3	2.26	0.59
1:J:166:TRP:HA	1:J:169:PHE:CE2	2.36	0.59
1:M:356:THR:OG1	1:M:569:ASN:OD1	2.18	0.59
1:N:288:VAL:HG12	1:N:289:ILE:N	2.17	0.59
1:O:205:ALA:HA	1:O:322:PHE:HE2	1.67	0.59
1:O:233:ALA:HA	1:O:289:ILE:HD13	1.83	0.59
1:Q:180:THR:HA	1:Q:295:LEU:HB3	1.83	0.59
1:Q:190:LYS:HB3	1:Q:652:LEU:CD1	2.30	0.59
1:Q:299:TYR:N	1:Q:299:TYR:CD1	2.69	0.59
1:R:474:ARG:N	1:R:524:ASP:HA	2.13	0.59
1:S:326:LYS:CG	1:T:237:PRO:HG3	2.28	0.59
1:S:517:ASN:C	1:S:519:ASP:H	2.08	0.59
1:T:401:GLU:CD	1:T:402:LYS:HG3	2.26	0.59
1:T:517:ASN:C	1:T:519:ASP:H	2.08	0.59
1:T:605:SER:CB	1:T:650:ILE:HG21	2.29	0.59
1:B:503:ILE:C	1:B:503:ILE:CD1	2.74	0.59
1:B:652:LEU:O	1:B:655:ILE:HG13	2.02	0.59
1:C:251:TYR:CG	1:C:252:PRO:HD2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:507:LYS:N	1:C:508:ILE:HD13	2.18	0.59
1:D:230:LYS:HE2	1:S:221:ILE:C	2.27	0.59
1:D:507:LYS:N	1:D:508:ILE:HD13	2.17	0.59
1:E:507:LYS:N	1:E:508:ILE:HD13	2.18	0.59
1:F:507:LYS:N	1:F:508:ILE:HD13	2.18	0.59
1:G:166:TRP:HA	1:G:169:PHE:CE2	2.37	0.59
1:G:356:THR:HG1	1:G:569:ASN:CG	2.10	0.59
1:H:166:TRP:HA	1:H:169:PHE:CE2	2.36	0.59
1:H:401:GLU:CD	1:H:402:LYS:HG3	2.26	0.59
1:I:361:PHE:CE1	1:I:619:PHE:HZ	2.20	0.59
1:J:652:LEU:O	1:J:655:ILE:HG13	2.02	0.59
1:K:162:VAL:HG12	1:K:164:SER:H	1.66	0.59
1:L:186:LYS:H	1:L:290:MET:HG3	1.66	0.59
1:M:166:TRP:HA	1:M:169:PHE:CE2	2.37	0.59
1:M:612:ILE:O	1:M:612:ILE:HG13	2.01	0.59
1:M:652:LEU:O	1:M:655:ILE:HG13	2.02	0.59
1:N:180:THR:HA	1:N:295:LEU:HB3	1.83	0.59
1:N:187:ILE:H	1:N:244:GLN:HE21	1.50	0.59
1:N:280:SER:OG	1:N:334:HIS:CE1	2.50	0.59
1:N:451:TYR:CE1	1:N:457:ILE:HB	2.37	0.59
1:P:395:ILE:H	1:P:395:ILE:CD1	2.15	0.59
1:Q:395:ILE:H	1:Q:395:ILE:CD1	2.15	0.59
1:R:507:LYS:N	1:R:508:ILE:HD13	2.18	0.59
1:A:187:ILE:CG1	1:A:244:GLN:HG2	2.33	0.59
1:A:225:GLY:CA	1:J:225:GLY:O	2.48	0.59
1:D:162:VAL:HG12	1:D:164:SER:H	1.66	0.59
1:D:186:LYS:H	1:D:290:MET:HG3	1.66	0.59
1:D:251:TYR:CG	1:D:252:PRO:HD2	2.36	0.59
1:D:363:ILE:O	1:D:363:ILE:HD12	2.01	0.59
1:F:451:TYR:CE1	1:F:457:ILE:HB	2.37	0.59
1:F:652:LEU:O	1:F:655:ILE:HG13	2.02	0.59
1:G:356:THR:OG1	1:G:569:ASN:OD1	2.19	0.59
1:H:221:ILE:HD11	1:H:258:ALA:CA	2.30	0.59
1:I:652:LEU:O	1:I:655:ILE:HG13	2.02	0.59
1:L:162:VAL:HG12	1:L:164:SER:H	1.66	0.59
1:M:162:VAL:HG12	1:M:164:SER:H	1.66	0.59
1:M:363:ILE:HD12	1:M:363:ILE:O	2.01	0.59
1:O:474:ARG:HD3	1:O:523:SER:O	2.03	0.59
1:P:180:THR:HA	1:P:295:LEU:HB3	1.83	0.59
1:P:205:ALA:HA	1:P:322:PHE:HE2	1.67	0.59
1:P:451:TYR:CE1	1:P:457:ILE:HB	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:186:LYS:H	1:Q:290:MET:HG3	1.66	0.59
1:Q:503:ILE:C	1:Q:503:ILE:CD1	2.74	0.59
1:Q:652:LEU:O	1:Q:655:ILE:HG13	2.02	0.59
1:R:451:TYR:CE1	1:R:457:ILE:HB	2.37	0.59
1:S:186:LYS:H	1:S:290:MET:HG3	1.66	0.59
1:S:451:TYR:CE1	1:S:457:ILE:HB	2.37	0.59
1:S:507:LYS:N	1:S:508:ILE:HD13	2.18	0.59
1:T:162:VAL:HG12	1:T:164:SER:H	1.66	0.59
1:A:187:ILE:H	1:A:244:GLN:HE21	1.51	0.59
1:A:222:SER:CA	1:J:230:LYS:HE2	2.33	0.59
1:A:304:ASN:O	1:A:305:SER:C	2.45	0.59
1:A:503:ILE:C	1:A:503:ILE:CD1	2.74	0.59
1:B:180:THR:HA	1:B:295:LEU:HB3	1.83	0.59
1:B:205:ALA:HA	1:B:322:PHE:HE2	1.67	0.59
1:B:230:LYS:HE2	1:Q:222:SER:CA	2.33	0.59
1:C:221:ILE:C	1:S:230:LYS:HE2	2.27	0.59
1:C:233:ALA:HA	1:C:289:ILE:HD13	1.83	0.59
1:C:451:TYR:CD1	1:C:457:ILE:CA	2.78	0.59
1:C:555:GLU:C	1:C:556:THR:CG2	2.74	0.59
1:E:222:SER:CA	1:L:230:LYS:HE2	2.33	0.59
1:E:363:ILE:HD12	1:E:363:ILE:O	2.01	0.59
1:F:612:ILE:HG22	1:F:618:TRP:HB3	1.84	0.59
1:G:221:ILE:C	1:N:230:LYS:HE2	2.27	0.59
1:G:361:PHE:CE1	1:G:619:PHE:HZ	2.21	0.59
1:H:162:VAL:HG12	1:H:164:SER:H	1.66	0.59
1:H:222:SER:OG	1:O:229:GLY:N	2.30	0.59
1:H:222:SER:CA	1:O:230:LYS:HE2	2.33	0.59
1:H:437:VAL:HG11	1:H:439:THR:CG2	2.28	0.59
1:H:555:GLU:C	1:H:556:THR:CG2	2.74	0.59
1:H:562:ASN:OD1	1:H:657:LEU:HG	2.00	0.59
1:I:507:LYS:N	1:I:508:ILE:HD13	2.18	0.59
1:J:222:SER:CA	1:P:230:LYS:HE2	2.33	0.59
1:K:280:SER:OG	1:K:334:HIS:CE1	2.50	0.59
1:M:187:ILE:H	1:M:244:GLN:HE21	1.50	0.59
1:M:612:ILE:HG22	1:M:618:TRP:HB3	1.84	0.59
1:N:612:ILE:HG22	1:N:618:TRP:HB3	1.84	0.59
1:O:162:VAL:HG12	1:O:164:SER:H	1.66	0.59
1:O:395:ILE:H	1:O:395:ILE:CD1	2.15	0.59
1:O:451:TYR:CE1	1:O:457:ILE:HB	2.37	0.59
1:P:222:SER:CB	1:Q:230:LYS:HG2	2.30	0.59
1:Q:220:SER:HB3	1:Q:263:PRO:HA	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:612:ILE:HG22	1:R:618:TRP:HB3	1.84	0.59
1:S:236:VAL:CG2	1:S:286:SER:HB2	2.29	0.59
1:T:205:ALA:HA	1:T:322:PHE:HE2	1.67	0.59
1:T:555:GLU:O	1:T:556:THR:HG22	2.01	0.59
1:A:162:VAL:HG12	1:A:164:SER:OG	2.03	0.59
1:A:226:VAL:HA	1:B:226:VAL:CG2	2.26	0.59
1:B:230:LYS:HG2	1:Q:222:SER:CB	2.30	0.59
1:C:363:ILE:O	1:C:363:ILE:HD12	2.01	0.59
1:D:304:ASN:O	1:D:305:SER:C	2.45	0.59
1:E:288:VAL:HG12	1:E:289:ILE:N	2.17	0.59
1:G:225:GLY:CA	1:N:225:GLY:O	2.48	0.59
1:H:226:VAL:HA	1:T:226:VAL:CG2	2.27	0.59
1:I:402:LYS:HD3	1:I:511:PHE:CE2	2.34	0.59
1:J:221:ILE:HD11	1:J:258:ALA:CA	2.30	0.59
1:J:437:VAL:CG1	1:J:438:THR:N	2.34	0.59
1:J:451:TYR:CE1	1:J:457:ILE:HB	2.37	0.59
1:J:503:ILE:C	1:J:503:ILE:CD1	2.74	0.59
1:J:507:LYS:N	1:J:508:ILE:HD13	2.18	0.59
1:L:222:SER:CA	1:T:230:LYS:HE2	2.33	0.59
1:L:225:GLY:CA	1:T:225:GLY:O	2.48	0.59
1:L:395:ILE:H	1:L:395:ILE:CD1	2.15	0.59
1:L:401:GLU:CD	1:L:402:LYS:HG3	2.26	0.59
1:L:507:LYS:N	1:L:508:ILE:HD13	2.18	0.59
1:M:297:ASN:C	1:M:297:ASN:ND2	2.59	0.59
1:M:361:PHE:CE1	1:M:619:PHE:HZ	2.20	0.59
1:Q:555:GLU:C	1:Q:556:THR:CG2	2.74	0.59
1:R:395:ILE:H	1:R:395:ILE:CD1	2.15	0.59
1:R:474:ARG:HD3	1:R:523:SER:O	2.03	0.59
1:R:652:LEU:O	1:R:655:ILE:HG13	2.02	0.59
1:T:180:THR:HA	1:T:295:LEU:HB3	1.83	0.59
1:A:237:PRO:HD2	1:D:327:PRO:HG2	1.84	0.59
1:B:162:VAL:HG12	1:B:164:SER:OG	2.03	0.59
1:B:451:TYR:CE1	1:B:457:ILE:HB	2.37	0.59
1:B:474:ARG:HD3	1:B:523:SER:O	2.03	0.59
1:C:230:LYS:HE2	1:K:222:SER:CA	2.33	0.59
1:D:361:PHE:CE1	1:D:619:PHE:HZ	2.20	0.59
1:E:186:LYS:H	1:E:290:MET:HG3	1.66	0.59
1:E:187:ILE:H	1:E:244:GLN:HE21	1.50	0.59
1:E:205:ALA:HA	1:E:322:PHE:HE2	1.67	0.59
1:E:220:SER:HB3	1:E:263:PRO:HA	1.85	0.59
1:E:362:VAL:HG12	1:E:364:ARG:HG2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:474:ARG:HD3	1:E:523:SER:O	2.03	0.59
1:F:299:TYR:CD1	1:F:299:TYR:N	2.69	0.59
1:F:327:PRO:HG2	1:R:237:PRO:HD2	1.84	0.59
1:F:474:ARG:HD3	1:F:523:SER:O	2.03	0.59
1:G:474:ARG:HD3	1:G:523:SER:O	2.03	0.59
1:G:652:LEU:O	1:G:655:ILE:HG13	2.02	0.59
1:H:230:LYS:HE2	1:T:221:ILE:C	2.27	0.59
1:H:652:LEU:O	1:H:655:ILE:HG13	2.02	0.59
1:J:162:VAL:HG12	1:J:164:SER:OG	2.03	0.59
1:J:233:ALA:HA	1:J:289:ILE:HD13	1.83	0.59
1:K:402:LYS:HD3	1:K:511:PHE:CG	2.32	0.59
1:K:451:TYR:CE1	1:K:457:ILE:HB	2.37	0.59
1:M:304:ASN:O	1:M:305:SER:C	2.45	0.59
1:M:362:VAL:HG12	1:M:364:ARG:HG2	1.83	0.59
1:M:503:ILE:C	1:M:503:ILE:CD1	2.74	0.59
1:Q:361:PHE:CE1	1:Q:619:PHE:HZ	2.21	0.59
1:R:187:ILE:CG1	1:R:244:GLN:HG2	2.33	0.59
1:S:555:GLU:C	1:S:556:THR:CG2	2.74	0.59
1:T:162:VAL:HG12	1:T:164:SER:OG	2.03	0.59
1:T:288:VAL:HG12	1:T:289:ILE:N	2.17	0.59
1:A:507:LYS:N	1:A:508:ILE:HD13	2.18	0.59
1:B:187:ILE:CG1	1:B:244:GLN:HG2	2.33	0.59
1:B:220:SER:HB3	1:B:263:PRO:HA	1.85	0.59
1:B:395:ILE:H	1:B:395:ILE:CD1	2.15	0.59
1:B:474:ARG:N	1:B:524:ASP:HA	2.13	0.59
1:B:612:ILE:O	1:B:612:ILE:HG13	2.01	0.59
1:C:361:PHE:CE1	1:C:619:PHE:HZ	2.21	0.59
1:D:187:ILE:H	1:D:244:GLN:HE21	1.51	0.59
1:D:440:SER:CB	1:D:443:THR:OG1	2.51	0.59
1:E:361:PHE:CE1	1:E:619:PHE:HZ	2.21	0.59
1:F:222:SER:CA	1:K:230:LYS:HE2	2.33	0.59
1:F:362:VAL:HG12	1:F:364:ARG:HG2	1.83	0.59
1:F:440:SER:CB	1:F:443:THR:OG1	2.51	0.59
1:F:517:ASN:C	1:F:519:ASP:H	2.08	0.59
1:G:190:LYS:HB2	1:G:652:LEU:CD1	2.24	0.59
1:G:304:ASN:O	1:G:305:SER:C	2.45	0.59
1:J:395:ILE:H	1:J:395:ILE:CD1	2.15	0.59
1:K:180:THR:HA	1:K:295:LEU:HB3	1.83	0.59
1:K:474:ARG:HD3	1:K:523:SER:O	2.03	0.59
1:L:221:ILE:HG22	1:L:310:VAL:CG2	2.33	0.59
1:L:451:TYR:CE1	1:L:457:ILE:HB	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:236:VAL:CG2	1:N:286:SER:HB2	2.28	0.59
1:N:363:ILE:HD12	1:N:363:ILE:O	2.01	0.59
1:O:187:ILE:H	1:O:244:GLN:HE21	1.51	0.59
1:O:361:PHE:CE1	1:O:619:PHE:HZ	2.21	0.59
1:P:401:GLU:CD	1:P:402:LYS:HG3	2.26	0.59
1:Q:162:VAL:HG12	1:Q:164:SER:OG	2.03	0.59
1:R:187:ILE:H	1:R:244:GLN:HE21	1.50	0.59
1:R:437:VAL:HG11	1:R:439:THR:CG2	2.28	0.59
1:T:166:TRP:HA	1:T:169:PHE:CE2	2.36	0.59
1:T:187:ILE:H	1:T:244:GLN:HE21	1.51	0.59
1:C:288:VAL:HG12	1:C:289:ILE:N	2.17	0.59
1:C:652:LEU:O	1:C:655:ILE:HG13	2.02	0.59
1:D:162:VAL:HG12	1:D:164:SER:OG	2.03	0.59
1:D:222:SER:CA	1:F:230:LYS:HE2	2.33	0.59
1:D:271:LEU:HD22	1:L:324:LEU:HD21	1.85	0.59
1:E:190:LYS:HB3	1:E:652:LEU:CD1	2.30	0.59
1:E:401:GLU:CD	1:E:402:LYS:HG3	2.26	0.59
1:F:395:ILE:H	1:F:395:ILE:CD1	2.15	0.59
1:G:222:SER:CB	1:N:230:LYS:HG2	2.30	0.59
1:G:230:LYS:HE2	1:I:222:SER:CA	2.32	0.59
1:H:230:LYS:HG2	1:T:222:SER:CB	2.30	0.59
1:H:474:ARG:HD3	1:H:523:SER:O	2.03	0.59
1:H:474:ARG:N	1:H:524:ASP:HA	2.13	0.59
1:I:162:VAL:HG12	1:I:164:SER:H	1.66	0.59
1:J:221:ILE:C	1:P:230:LYS:HE2	2.27	0.59
1:J:401:GLU:CD	1:J:402:LYS:HG3	2.26	0.59
1:K:220:SER:HB3	1:K:263:PRO:HA	1.85	0.59
1:K:503:ILE:C	1:K:503:ILE:CD1	2.74	0.59
1:K:612:ILE:HG22	1:K:618:TRP:HB3	1.84	0.59
1:L:288:VAL:HG12	1:L:289:ILE:N	2.17	0.59
1:L:440:SER:CB	1:L:443:THR:OG1	2.51	0.59
1:L:517:ASN:C	1:L:519:ASP:N	2.61	0.59
1:M:205:ALA:HA	1:M:322:PHE:HE2	1.67	0.59
1:M:507:LYS:N	1:M:508:ILE:HD13	2.18	0.59
1:N:222:SER:CA	1:R:230:LYS:HE2	2.33	0.59
1:O:427:SER:OG	1:O:429:LEU:HD22	1.99	0.59
1:P:162:VAL:HG12	1:P:164:SER:OG	2.03	0.59
1:P:507:LYS:N	1:P:508:ILE:HD13	2.18	0.59
1:Q:162:VAL:HG12	1:Q:164:SER:H	1.66	0.59
1:Q:221:ILE:HG22	1:Q:310:VAL:CG2	2.33	0.59
1:Q:507:LYS:N	1:Q:508:ILE:HD13	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:190:LYS:HB2	1:R:652:LEU:CD1	2.24	0.59
1:R:555:GLU:O	1:R:556:THR:HG22	2.01	0.59
1:B:362:VAL:HG12	1:B:364:ARG:HG2	1.83	0.59
1:C:220:SER:HB3	1:C:263:PRO:HA	1.85	0.59
1:C:221:ILE:HG22	1:C:310:VAL:CG2	2.33	0.59
1:C:222:SER:CA	1:S:230:LYS:HE2	2.33	0.59
1:C:313:GLU:OE1	1:S:255:LEU:HD11	1.95	0.59
1:D:517:ASN:C	1:D:519:ASP:N	2.61	0.59
1:E:230:LYS:HE2	1:O:221:ILE:C	2.27	0.59
1:E:304:ASN:O	1:E:305:SER:C	2.45	0.59
1:G:162:VAL:HG12	1:G:164:SER:H	1.66	0.59
1:I:230:LYS:HG2	1:M:222:SER:CB	2.30	0.59
1:I:504:ASN:CB	1:I:505:PRO:HD2	2.19	0.59
1:J:190:LYS:HB3	1:J:652:LEU:CD1	2.30	0.59
1:K:237:PRO:HD2	1:N:327:PRO:HG2	1.84	0.59
1:L:190:LYS:HB3	1:L:652:LEU:CD1	2.30	0.59
1:L:220:SER:HB3	1:L:263:PRO:HA	1.85	0.59
1:M:230:LYS:HE2	1:R:222:SER:CA	2.33	0.59
1:N:304:ASN:O	1:N:305:SER:C	2.45	0.59
1:N:395:ILE:H	1:N:395:ILE:CD1	2.15	0.59
1:N:474:ARG:HD3	1:N:523:SER:O	2.03	0.59
1:O:162:VAL:HG12	1:O:164:SER:OG	2.03	0.59
1:P:221:ILE:C	1:Q:230:LYS:HE2	2.27	0.59
1:P:361:PHE:CE1	1:P:619:PHE:HZ	2.20	0.59
1:R:361:PHE:CE1	1:R:619:PHE:HZ	2.21	0.59
1:S:275:LEU:CD1	1:T:275:LEU:CG	2.34	0.59
1:S:440:SER:CB	1:S:443:THR:OG1	2.51	0.59
1:T:361:PHE:CE1	1:T:619:PHE:HZ	2.21	0.59
1:A:230:LYS:HG2	1:B:222:SER:CB	2.30	0.59
1:A:275:LEU:HG	1:D:275:LEU:CD1	2.26	0.59
1:A:297:ASN:C	1:A:297:ASN:ND2	2.59	0.59
1:A:356:THR:OG1	1:A:569:ASN:OD1	2.18	0.59
1:B:271:LEU:CD2	1:R:324:LEU:CD2	2.81	0.59
1:B:275:LEU:CD1	1:F:275:LEU:HG	2.26	0.59
1:B:328:PRO:C	1:F:251:TYR:HD1	1.60	0.59
1:B:612:ILE:HG22	1:B:618:TRP:HB3	1.84	0.59
1:C:474:ARG:HD3	1:C:523:SER:O	2.03	0.59
1:E:221:ILE:HG22	1:E:310:VAL:HG13	1.85	0.59
1:E:451:TYR:CE1	1:E:457:ILE:HB	2.37	0.59
1:F:162:VAL:HG12	1:F:164:SER:OG	2.03	0.59
1:G:451:TYR:CE1	1:G:457:ILE:HB	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:356:THR:OG1	1:I:569:ASN:OD1	2.18	0.59
1:I:451:TYR:CE1	1:I:457:ILE:HB	2.37	0.59
1:I:517:ASN:C	1:I:519:ASP:H	2.08	0.59
1:K:187:ILE:H	1:K:244:GLN:HE21	1.51	0.59
1:K:464:LYS:HA	1:K:533:THR:CG2	2.31	0.59
1:L:474:ARG:HD3	1:L:523:SER:O	2.03	0.59
1:L:652:LEU:O	1:L:655:ILE:HG13	2.02	0.59
1:O:402:LYS:HD3	1:O:511:PHE:CG	2.32	0.59
1:P:288:VAL:HG12	1:P:289:ILE:N	2.17	0.59
1:R:162:VAL:HG12	1:R:164:SER:H	1.66	0.59
1:S:327:PRO:HG2	1:T:237:PRO:HD2	1.84	0.59
1:S:361:PHE:CE1	1:S:619:PHE:HZ	2.20	0.59
1:A:271:LEU:CD2	1:D:324:LEU:CD2	2.81	0.58
1:A:361:PHE:CE1	1:A:619:PHE:HZ	2.21	0.58
1:A:440:SER:CB	1:A:443:THR:OG1	2.51	0.58
1:B:187:ILE:H	1:B:244:GLN:HE21	1.51	0.58
1:B:221:ILE:HD11	1:B:258:ALA:CA	2.30	0.58
1:B:304:ASN:O	1:B:305:SER:C	2.45	0.58
1:C:464:LYS:HA	1:C:533:THR:CG2	2.31	0.58
1:D:187:ILE:CG1	1:D:244:GLN:HG2	2.33	0.58
1:D:190:LYS:HB2	1:D:652:LEU:CD1	2.24	0.58
1:D:233:ALA:HA	1:D:289:ILE:HD13	1.83	0.58
1:D:612:ILE:HG22	1:D:618:TRP:HB3	1.84	0.58
1:E:162:VAL:HG12	1:E:164:SER:H	1.66	0.58
1:F:162:VAL:HG12	1:F:164:SER:H	1.66	0.58
1:F:328:PRO:CD	1:R:252:PRO:HD2	2.06	0.58
1:H:230:LYS:HE2	1:T:222:SER:CA	2.33	0.58
1:I:205:ALA:HA	1:I:322:PHE:HE2	1.67	0.58
1:I:230:LYS:HE2	1:M:222:SER:CA	2.33	0.58
1:J:205:ALA:HA	1:J:322:PHE:HE2	1.67	0.58
1:K:162:VAL:HG12	1:K:164:SER:OG	2.03	0.58
1:K:189:PHE:CD1	1:K:289:ILE:HB	2.38	0.58
1:M:162:VAL:HG12	1:M:164:SER:OG	2.03	0.58
1:N:187:ILE:CG1	1:N:244:GLN:HG2	2.33	0.58
1:N:297:ASN:ND2	1:N:297:ASN:C	2.59	0.58
1:P:221:ILE:HG22	1:P:310:VAL:HG13	1.85	0.58
1:Q:474:ARG:HD3	1:Q:523:SER:O	2.03	0.58
1:R:402:LYS:HD3	1:R:511:PHE:CE2	2.34	0.58
1:T:297:ASN:C	1:T:297:ASN:ND2	2.59	0.58
1:A:401:GLU:CD	1:A:402:LYS:HG3	2.26	0.58
1:A:652:LEU:O	1:A:655:ILE:HG13	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:328:PRO:CB	1:F:251:TYR:HD1	1.76	0.58
1:B:507:LYS:N	1:B:508:ILE:HD13	2.18	0.58
1:C:395:ILE:H	1:C:395:ILE:CD1	2.15	0.58
1:D:427:SER:OG	1:D:429:LEU:HD22	1.99	0.58
1:E:225:GLY:CA	1:L:225:GLY:O	2.48	0.58
1:E:612:ILE:HG22	1:E:618:TRP:HB3	1.84	0.58
1:F:221:ILE:C	1:K:230:LYS:HE2	2.27	0.58
1:G:236:VAL:CG2	1:G:286:SER:HB2	2.28	0.58
1:H:361:PHE:CE1	1:H:619:PHE:HZ	2.20	0.58
1:I:220:SER:HB3	1:I:263:PRO:HA	1.85	0.58
1:I:612:ILE:O	1:I:612:ILE:HG13	2.01	0.58
1:J:356:THR:OG1	1:J:569:ASN:OD1	2.18	0.58
1:L:221:ILE:HG22	1:L:310:VAL:HG13	1.85	0.58
1:L:361:PHE:CE1	1:L:619:PHE:HZ	2.21	0.58
1:M:220:SER:HB3	1:M:263:PRO:HA	1.85	0.58
1:M:474:ARG:HD3	1:M:523:SER:O	2.03	0.58
1:N:162:VAL:HG12	1:N:164:SER:OG	2.03	0.58
1:N:225:GLY:CA	1:R:225:GLY:O	2.48	0.58
1:O:187:ILE:CG1	1:O:244:GLN:HG2	2.33	0.58
1:O:221:ILE:HG22	1:O:310:VAL:HG13	1.86	0.58
1:P:222:SER:CA	1:Q:230:LYS:HE2	2.33	0.58
1:R:221:ILE:HG22	1:R:310:VAL:HG13	1.85	0.58
1:R:362:VAL:HG12	1:R:364:ARG:HG2	1.83	0.58
1:S:652:LEU:O	1:S:655:ILE:HG13	2.02	0.58
1:T:451:TYR:CE1	1:T:457:ILE:HB	2.37	0.58
1:T:612:ILE:HG22	1:T:618:TRP:HB3	1.84	0.58
1:T:652:LEU:O	1:T:655:ILE:HG13	2.02	0.58
1:A:190:LYS:HB3	1:A:652:LEU:CD1	2.30	0.58
1:A:220:SER:HB3	1:A:263:PRO:HA	1.85	0.58
1:A:237:PRO:CD	1:D:327:PRO:HG2	2.31	0.58
1:A:327:PRO:HG2	1:L:237:PRO:HD2	1.84	0.58
1:A:362:VAL:HG12	1:A:364:ARG:HG2	1.83	0.58
1:B:297:ASN:C	1:B:297:ASN:ND2	2.59	0.58
1:C:187:ILE:CG1	1:C:244:GLN:HG2	2.33	0.58
1:E:324:LEU:CD2	1:J:271:LEU:CD2	2.81	0.58
1:F:187:ILE:CG1	1:F:244:GLN:HG2	2.33	0.58
1:G:187:ILE:CG1	1:G:244:GLN:HG2	2.33	0.58
1:G:507:LYS:N	1:G:508:ILE:HD13	2.17	0.58
1:H:187:ILE:H	1:H:244:GLN:HE21	1.50	0.58
1:H:187:ILE:CG1	1:H:244:GLN:HG2	2.33	0.58
1:H:507:LYS:N	1:H:508:ILE:HD13	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:612:ILE:O	1:H:612:ILE:HG13	2.01	0.58
1:I:474:ARG:HD3	1:I:523:SER:O	2.03	0.58
1:I:612:ILE:HG22	1:I:618:TRP:HB3	1.84	0.58
1:J:220:SER:HB3	1:J:263:PRO:HA	1.85	0.58
1:J:297:ASN:C	1:J:297:ASN:ND2	2.59	0.58
1:J:361:PHE:CE1	1:J:619:PHE:HZ	2.21	0.58
1:J:474:ARG:HD3	1:J:523:SER:O	2.03	0.58
1:K:187:ILE:CG1	1:K:244:GLN:HG2	2.33	0.58
1:K:297:ASN:C	1:K:297:ASN:ND2	2.59	0.58
1:K:652:LEU:O	1:K:655:ILE:HG13	2.02	0.58
1:L:402:LYS:HD3	1:L:511:PHE:CG	2.32	0.58
1:M:271:LEU:HD22	1:Q:324:LEU:HD21	1.85	0.58
1:N:221:ILE:HG22	1:N:310:VAL:HG13	1.85	0.58
1:N:612:ILE:O	1:N:612:ILE:HG13	2.01	0.58
1:P:474:ARG:HD3	1:P:523:SER:O	2.03	0.58
1:Q:612:ILE:O	1:Q:612:ILE:HG13	2.01	0.58
1:R:162:VAL:HG12	1:R:164:SER:OG	2.03	0.58
1:R:517:ASN:C	1:R:519:ASP:H	2.08	0.58
1:R:612:ILE:O	1:R:612:ILE:HG13	2.01	0.58
1:S:162:VAL:HG12	1:S:164:SER:OG	2.03	0.58
1:A:327:PRO:HG2	1:L:237:PRO:CD	2.31	0.58
1:A:342:ILE:H	1:A:342:ILE:HD12	1.68	0.58
1:B:221:ILE:HG22	1:B:310:VAL:HG13	1.85	0.58
1:B:288:VAL:HG12	1:B:289:ILE:N	2.17	0.58
1:B:361:PHE:CE1	1:B:619:PHE:HZ	2.20	0.58
1:C:304:ASN:O	1:C:305:SER:C	2.45	0.58
1:E:236:VAL:CG2	1:E:286:SER:HB2	2.28	0.58
1:F:361:PHE:CE1	1:F:619:PHE:HZ	2.21	0.58
1:F:517:ASN:C	1:F:519:ASP:N	2.61	0.58
1:G:297:ASN:C	1:G:297:ASN:ND2	2.59	0.58
1:H:205:ALA:HA	1:H:322:PHE:HE2	1.67	0.58
1:K:221:ILE:HG22	1:K:310:VAL:CG2	2.33	0.58
1:K:233:ALA:HA	1:K:289:ILE:HD13	1.83	0.58
1:K:361:PHE:CE1	1:K:619:PHE:HZ	2.20	0.58
1:M:230:LYS:HG2	1:R:222:SER:CB	2.30	0.58
1:N:189:PHE:CD1	1:N:289:ILE:HB	2.38	0.58
1:O:304:ASN:O	1:O:305:SER:C	2.45	0.58
1:O:440:SER:CB	1:O:443:THR:OG1	2.51	0.58
1:O:652:LEU:O	1:O:655:ILE:HG13	2.02	0.58
1:Q:612:ILE:HG22	1:Q:618:TRP:HB3	1.84	0.58
1:R:464:LYS:HA	1:R:533:THR:CG2	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:220:SER:HB3	1:S:263:PRO:HA	1.85	0.58
1:A:189:PHE:CD1	1:A:289:ILE:HB	2.38	0.58
1:A:222:SER:CB	1:J:230:LYS:HG2	2.30	0.58
1:A:233:ALA:HA	1:A:289:ILE:HD13	1.83	0.58
1:A:327:PRO:CD	1:L:237:PRO:CG	2.54	0.58
1:D:237:PRO:HD2	1:L:327:PRO:HG2	1.84	0.58
1:D:451:TYR:CE1	1:D:457:ILE:HB	2.37	0.58
1:E:221:ILE:CG2	1:E:310:VAL:HG22	2.32	0.58
1:E:503:ILE:C	1:E:503:ILE:CD1	2.74	0.58
1:F:225:GLY:CA	1:K:225:GLY:O	2.48	0.58
1:F:288:VAL:HG12	1:F:289:ILE:N	2.17	0.58
1:G:222:SER:CA	1:N:230:LYS:HE2	2.33	0.58
1:G:612:ILE:O	1:G:612:ILE:HG13	2.01	0.58
1:I:187:ILE:CG1	1:I:244:GLN:HG2	2.33	0.58
1:I:187:ILE:H	1:I:244:GLN:HE21	1.50	0.58
1:J:162:VAL:HG12	1:J:164:SER:H	1.66	0.58
1:J:187:ILE:CG1	1:J:244:GLN:HG2	2.33	0.58
1:K:271:LEU:CD2	1:N:324:LEU:CD2	2.81	0.58
1:L:221:ILE:C	1:T:230:LYS:HE2	2.27	0.58
1:L:612:ILE:HG22	1:L:618:TRP:HB3	1.84	0.58
1:M:271:LEU:CD2	1:Q:324:LEU:CD2	2.81	0.58
1:O:220:SER:HB3	1:O:263:PRO:HA	1.85	0.58
1:Q:187:ILE:CG1	1:Q:244:GLN:HG2	2.33	0.58
1:S:221:ILE:HG22	1:S:310:VAL:CG2	2.33	0.58
1:S:297:ASN:C	1:S:297:ASN:ND2	2.59	0.58
1:T:220:SER:HB3	1:T:263:PRO:HA	1.85	0.58
1:T:427:SER:HG	1:T:429:LEU:HD21	1.66	0.58
1:T:440:SER:CB	1:T:443:THR:OG1	2.51	0.58
1:T:481:ILE:O	1:T:482:SER:C	2.47	0.58
1:A:230:LYS:HE2	1:B:222:SER:CA	2.33	0.58
1:D:205:ALA:HA	1:D:322:PHE:HE2	1.67	0.58
1:D:230:LYS:HE2	1:S:222:SER:CA	2.33	0.58
1:D:474:ARG:HD3	1:D:523:SER:O	2.03	0.58
1:E:162:VAL:HG12	1:E:164:SER:OG	2.03	0.58
1:E:427:SER:HG	1:E:429:LEU:HD21	1.62	0.58
1:F:220:SER:HB3	1:F:263:PRO:HA	1.85	0.58
1:F:612:ILE:O	1:F:612:ILE:HG13	2.01	0.58
1:G:395:ILE:H	1:G:395:ILE:CD1	2.15	0.58
1:G:481:ILE:O	1:G:482:SER:C	2.47	0.58
1:I:255:LEU:HD11	1:M:313:GLU:OE1	1.94	0.58
1:L:325:LEU:HB3	1:S:165:GLU:OE1	1.91	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:517:ASN:C	1:N:519:ASP:N	2.61	0.58
1:O:189:PHE:CD1	1:O:289:ILE:HB	2.38	0.58
1:P:220:SER:HB3	1:P:263:PRO:HA	1.85	0.58
1:P:233:ALA:HA	1:P:289:ILE:HD13	1.83	0.58
1:Q:214:SER:HB3	1:Q:269:PRO:HA	1.86	0.58
1:Q:605:SER:CB	1:Q:650:ILE:HG23	2.27	0.58
1:S:187:ILE:CG1	1:S:244:GLN:HG2	2.33	0.58
1:T:280:SER:OG	1:T:334:HIS:CE1	2.50	0.58
1:T:395:ILE:H	1:T:395:ILE:CD1	2.15	0.58
1:A:280:SER:OG	1:A:334:HIS:CE1	2.50	0.58
1:A:325:LEU:HD23	1:E:165:GLU:CG	2.21	0.58
1:A:555:GLU:C	1:A:556:THR:CG2	2.73	0.58
1:C:214:SER:HB3	1:C:269:PRO:HA	1.86	0.58
1:C:503:ILE:C	1:C:503:ILE:CD1	2.74	0.58
1:D:222:SER:CB	1:F:230:LYS:HG2	2.30	0.58
1:D:481:ILE:O	1:D:482:SER:C	2.47	0.58
1:F:187:ILE:H	1:F:244:GLN:HE21	1.50	0.58
1:F:555:GLU:C	1:F:556:THR:CG2	2.74	0.58
1:H:214:SER:HB3	1:H:269:PRO:HA	1.86	0.58
1:H:304:ASN:O	1:H:305:SER:C	2.45	0.58
1:K:605:SER:CB	1:K:650:ILE:HG21	2.29	0.58
1:N:221:ILE:HG22	1:N:310:VAL:CG2	2.33	0.58
1:N:361:PHE:CE1	1:N:619:PHE:HZ	2.21	0.58
1:P:187:ILE:H	1:P:244:GLN:HE21	1.51	0.58
1:P:440:SER:CB	1:P:443:THR:OG1	2.51	0.58
1:P:612:ILE:HG22	1:P:618:TRP:HB3	1.84	0.58
1:S:401:GLU:CD	1:S:402:LYS:HG3	2.26	0.58
1:T:474:ARG:HD3	1:T:523:SER:O	2.03	0.58
1:T:504:ASN:CB	1:T:505:PRO:HD2	2.19	0.58
1:A:474:ARG:N	1:A:524:ASP:HA	2.13	0.58
1:D:271:LEU:CD1	1:L:324:LEU:HD22	2.34	0.58
1:E:189:PHE:CD1	1:E:289:ILE:HB	2.39	0.58
1:E:297:ASN:C	1:E:297:ASN:ND2	2.59	0.58
1:F:324:LEU:CD2	1:R:271:LEU:CD2	2.81	0.58
1:F:481:ILE:O	1:F:482:SER:C	2.47	0.58
1:H:481:ILE:O	1:H:482:SER:C	2.47	0.58
1:H:555:GLU:O	1:H:556:THR:HG22	2.01	0.58
1:I:221:ILE:HG22	1:I:310:VAL:HG13	1.85	0.58
1:I:257:ASP:OD1	1:I:258:ALA:N	2.37	0.58
1:I:440:SER:CB	1:I:443:THR:OG1	2.51	0.58
1:K:221:ILE:HG22	1:K:310:VAL:HG13	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:517:ASN:C	1:K:519:ASP:N	2.61	0.58
1:M:395:ILE:H	1:M:395:ILE:CD1	2.15	0.58
1:N:221:ILE:CG2	1:N:310:VAL:HG22	2.32	0.58
1:N:474:ARG:N	1:N:524:ASP:HA	2.13	0.58
1:O:481:ILE:O	1:O:482:SER:C	2.47	0.58
1:O:507:LYS:N	1:O:508:ILE:HD13	2.18	0.58
1:P:464:LYS:HA	1:P:533:THR:CG2	2.31	0.58
1:T:507:LYS:N	1:T:508:ILE:HD13	2.18	0.58
1:A:474:ARG:HD3	1:A:523:SER:O	2.03	0.58
1:B:237:PRO:CG	1:R:327:PRO:CD	2.54	0.58
1:B:451:TYR:CD1	1:B:457:ILE:CB	2.77	0.58
1:C:440:SER:CB	1:C:443:THR:OG1	2.51	0.58
1:D:605:SER:CB	1:D:650:ILE:HG21	2.29	0.58
1:E:214:SER:HB3	1:E:269:PRO:HA	1.86	0.58
1:H:162:VAL:HG12	1:H:164:SER:OG	2.03	0.58
1:H:229:GLY:N	1:T:222:SER:OG	2.30	0.58
1:I:555:GLU:O	1:I:556:THR:HG22	2.01	0.58
1:J:342:ILE:H	1:J:342:ILE:HD12	1.68	0.58
1:K:271:LEU:HD22	1:N:324:LEU:HD21	1.85	0.58
1:L:162:VAL:HG12	1:L:164:SER:OG	2.03	0.58
1:L:187:ILE:CG1	1:L:244:GLN:HG2	2.33	0.58
1:P:214:SER:HB3	1:P:269:PRO:HA	1.86	0.58
1:T:187:ILE:CG1	1:T:244:GLN:HG2	2.33	0.58
1:T:214:SER:HB3	1:T:269:PRO:HA	1.86	0.58
1:T:517:ASN:C	1:T:519:ASP:N	2.61	0.58
1:A:427:SER:OG	1:A:429:LEU:HD22	1.99	0.58
1:B:237:PRO:CD	1:R:327:PRO:HG2	2.31	0.58
1:C:226:VAL:HA	1:K:226:VAL:CG2	2.26	0.58
1:D:275:LEU:HG	1:L:275:LEU:CD1	2.26	0.58
1:D:297:ASN:C	1:D:297:ASN:ND2	2.59	0.58
1:E:222:SER:CB	1:L:230:LYS:HG2	2.30	0.58
1:F:304:ASN:O	1:F:305:SER:C	2.45	0.58
1:G:221:ILE:HG22	1:G:310:VAL:HG13	1.85	0.58
1:G:257:ASP:OD1	1:G:258:ALA:N	2.37	0.58
1:H:220:SER:HB3	1:H:263:PRO:HA	1.85	0.58
1:H:221:ILE:HG22	1:H:310:VAL:HG13	1.85	0.58
1:I:221:ILE:CG2	1:I:310:VAL:HG22	2.32	0.58
1:J:187:ILE:H	1:J:244:GLN:HE21	1.51	0.58
1:J:222:SER:OG	1:P:229:GLY:N	2.30	0.58
1:J:517:ASN:C	1:J:519:ASP:N	2.61	0.58
1:L:257:ASP:OD1	1:L:258:ALA:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:214:SER:HB3	1:M:269:PRO:HA	1.86	0.58
1:O:221:ILE:CG2	1:O:310:VAL:HG22	2.32	0.58
1:O:555:GLU:O	1:O:556:THR:HG22	2.01	0.58
1:Q:221:ILE:CG2	1:Q:310:VAL:HG22	2.32	0.58
1:Q:272:ARG:HD2	1:Q:274:THR:O	2.04	0.58
1:S:214:SER:HB3	1:S:269:PRO:HA	1.86	0.58
1:S:280:SER:OG	1:S:334:HIS:CE1	2.50	0.58
1:S:474:ARG:HD3	1:S:523:SER:O	2.03	0.58
1:A:324:LEU:HD21	1:L:271:LEU:HD22	1.85	0.57
1:A:324:LEU:HD22	1:L:271:LEU:CD1	2.34	0.57
1:B:271:LEU:CD1	1:R:324:LEU:HD22	2.34	0.57
1:B:280:SER:OG	1:B:334:HIS:CE1	2.50	0.57
1:C:272:ARG:HD2	1:C:274:THR:O	2.04	0.57
1:C:482:SER:O	1:C:483:ASN:CB	2.53	0.57
1:C:503:ILE:CG2	1:C:550:ILE:HD12	2.33	0.57
1:D:221:ILE:HG22	1:D:310:VAL:HG13	1.85	0.57
1:E:187:ILE:CG1	1:E:244:GLN:HG2	2.33	0.57
1:E:230:LYS:HE2	1:O:222:SER:CA	2.33	0.57
1:E:257:ASP:OD1	1:E:258:ALA:N	2.37	0.57
1:F:480:LYS:NZ	1:N:575:TYR:CA	2.52	0.57
1:F:568:LYS:HE2	1:F:581:ASP:OD1	2.05	0.57
1:H:451:TYR:CD1	1:H:457:ILE:CB	2.77	0.57
1:J:272:ARG:HD2	1:J:274:THR:O	2.04	0.57
1:K:507:LYS:N	1:K:508:ILE:HD13	2.18	0.57
1:M:481:ILE:O	1:M:482:SER:C	2.47	0.57
1:N:481:ILE:O	1:N:482:SER:C	2.47	0.57
1:N:507:LYS:N	1:N:508:ILE:HD13	2.18	0.57
1:P:187:ILE:CG1	1:P:244:GLN:HG2	2.33	0.57
1:P:221:ILE:CG2	1:P:310:VAL:HG22	2.32	0.57
1:P:222:SER:OG	1:Q:229:GLY:N	2.30	0.57
1:P:257:ASP:OD1	1:P:258:ALA:N	2.37	0.57
1:P:474:ARG:N	1:P:524:ASP:HA	2.13	0.57
1:Q:221:ILE:HG22	1:Q:310:VAL:HG13	1.85	0.57
1:R:257:ASP:OD1	1:R:258:ALA:N	2.37	0.57
1:R:401:GLU:CD	1:R:402:LYS:HG3	2.26	0.57
1:R:517:ASN:C	1:R:519:ASP:N	2.61	0.57
1:S:612:ILE:HG22	1:S:618:TRP:HB3	1.84	0.57
1:T:221:ILE:CG2	1:T:310:VAL:HG22	2.32	0.57
1:T:342:ILE:H	1:T:342:ILE:HD12	1.68	0.57
1:T:474:ARG:N	1:T:524:ASP:HA	2.13	0.57
1:A:439:THR:HG23	1:A:457:ILE:CG1	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:482:SER:O	1:A:483:ASN:CB	2.53	0.57
1:B:435:TYR:HD1	1:B:575:TYR:HH	1.51	0.57
1:C:162:VAL:HG12	1:C:164:SER:OG	2.03	0.57
1:C:222:SER:CB	1:S:230:LYS:HG2	2.30	0.57
1:C:352:ASN:HB3	1:C:586:GLN:O	2.05	0.57
1:D:205:ALA:HA	1:D:322:PHE:CE2	2.39	0.57
1:D:220:SER:HB3	1:D:263:PRO:HA	1.85	0.57
1:D:226:VAL:HA	1:S:226:VAL:CG2	2.27	0.57
1:E:324:LEU:HD21	1:J:271:LEU:HD22	1.85	0.57
1:F:222:SER:OG	1:K:229:GLY:N	2.30	0.57
1:J:427:SER:OG	1:J:429:LEU:HD22	1.99	0.57
1:K:271:LEU:CD1	1:N:324:LEU:HD22	2.34	0.57
1:K:352:ASN:HB3	1:K:586:GLN:O	2.04	0.57
1:L:205:ALA:HA	1:L:322:PHE:CE2	2.40	0.57
1:O:205:ALA:HA	1:O:322:PHE:CE2	2.40	0.57
1:Q:205:ALA:HA	1:Q:322:PHE:CE2	2.40	0.57
1:Q:482:SER:O	1:Q:483:ASN:CB	2.53	0.57
1:R:297:ASN:C	1:R:297:ASN:ND2	2.59	0.57
1:R:368:PHE:HB3	1:R:544:ARG:NH1	2.20	0.57
1:A:272:ARG:HD2	1:A:274:THR:O	2.04	0.57
1:A:481:ILE:O	1:A:482:SER:C	2.47	0.57
1:B:324:LEU:HD21	1:F:271:LEU:HD22	1.85	0.57
1:B:591:SER:HA	1:B:594:LEU:HD12	1.87	0.57
1:C:439:THR:HG23	1:C:457:ILE:CG1	2.35	0.57
1:D:474:ARG:N	1:D:524:ASP:HA	2.13	0.57
1:E:440:SER:CB	1:E:443:THR:OG1	2.51	0.57
1:E:482:SER:O	1:E:483:ASN:CB	2.52	0.57
1:E:568:LYS:HE2	1:E:581:ASP:OD1	2.05	0.57
1:F:257:ASP:OD1	1:F:258:ALA:N	2.37	0.57
1:F:324:LEU:HD22	1:R:271:LEU:CD1	2.34	0.57
1:G:220:SER:HB3	1:G:263:PRO:HA	1.85	0.57
1:H:189:PHE:CD1	1:H:289:ILE:HB	2.38	0.57
1:H:205:ALA:HA	1:H:322:PHE:CE2	2.40	0.57
1:H:297:ASN:C	1:H:297:ASN:ND2	2.59	0.57
1:H:484:THR:HG23	1:H:485:ALA:H	1.70	0.57
1:H:568:LYS:HE2	1:H:581:ASP:OD1	2.05	0.57
1:I:162:VAL:HG12	1:I:164:SER:OG	2.03	0.57
1:I:439:THR:HG23	1:I:457:ILE:CG1	2.34	0.57
1:J:221:ILE:HG22	1:J:310:VAL:HG13	1.85	0.57
1:J:482:SER:O	1:J:483:ASN:CB	2.53	0.57
1:J:605:SER:CB	1:J:650:ILE:HG23	2.27	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:205:ALA:HA	1:K:322:PHE:CE2	2.40	0.57
1:K:395:ILE:H	1:K:395:ILE:CD1	2.15	0.57
1:L:214:SER:HB3	1:L:269:PRO:HA	1.86	0.57
1:L:259:ARG:HA	1:T:259:ARG:NH1	2.16	0.57
1:L:484:THR:HG23	1:L:485:ALA:H	1.70	0.57
1:M:257:ASP:OD1	1:M:258:ALA:N	2.37	0.57
1:M:427:SER:OG	1:M:429:LEU:HD22	1.99	0.57
1:N:220:SER:HB3	1:N:263:PRO:HA	1.85	0.57
1:N:482:SER:O	1:N:483:ASN:CB	2.52	0.57
1:N:576:VAL:HG12	1:N:577:ILE:HG12	1.87	0.57
1:O:368:PHE:HB3	1:O:544:ARG:NH1	2.20	0.57
1:R:221:ILE:HG22	1:R:310:VAL:CG2	2.33	0.57
1:S:439:THR:HG1	1:S:457:ILE:H	1.51	0.57
1:A:352:ASN:HB3	1:A:586:GLN:O	2.05	0.57
1:A:517:ASN:C	1:A:519:ASP:N	2.61	0.57
1:B:257:ASP:OD1	1:B:258:ALA:N	2.37	0.57
1:B:271:LEU:HD22	1:R:324:LEU:HD21	1.85	0.57
1:D:555:GLU:O	1:D:556:THR:HG22	2.01	0.57
1:D:576:VAL:HG12	1:D:577:ILE:HG12	1.87	0.57
1:E:205:ALA:HA	1:E:322:PHE:CE2	2.40	0.57
1:E:327:PRO:HG2	1:J:237:PRO:HD2	1.84	0.57
1:E:481:ILE:O	1:E:482:SER:C	2.47	0.57
1:H:517:ASN:C	1:H:519:ASP:N	2.61	0.57
1:I:481:ILE:O	1:I:482:SER:C	2.47	0.57
1:I:517:ASN:C	1:I:519:ASP:N	2.61	0.57
1:J:214:SER:HB3	1:J:269:PRO:HA	1.86	0.57
1:K:176:VAL:HG12	1:K:177:ASN:N	2.20	0.57
1:K:576:VAL:HG12	1:K:577:ILE:HG12	1.87	0.57
1:L:165:GLU:OE1	1:S:325:LEU:HB3	1.91	0.57
1:L:272:ARG:HD2	1:L:274:THR:O	2.04	0.57
1:M:408:ALA:HB1	1:M:411:PHE:CD2	2.40	0.57
1:M:439:THR:HG23	1:M:457:ILE:CG1	2.34	0.57
1:O:402:LYS:HD3	1:O:511:PHE:CE2	2.34	0.57
1:P:439:THR:HG23	1:P:457:ILE:CG1	2.34	0.57
1:Q:481:ILE:O	1:Q:482:SER:C	2.47	0.57
1:R:220:SER:HB3	1:R:263:PRO:HA	1.85	0.57
1:S:481:ILE:O	1:S:482:SER:C	2.47	0.57
1:S:503:ILE:CG2	1:S:550:ILE:HD12	2.33	0.57
1:T:221:ILE:HG22	1:T:310:VAL:HG13	1.85	0.57
1:T:257:ASP:OD1	1:T:258:ALA:N	2.37	0.57
1:A:257:ASP:OD1	1:A:258:ALA:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:402:LYS:HZ2	1:A:511:PHE:HE2	1.51	0.57
1:B:481:ILE:O	1:B:482:SER:C	2.47	0.57
1:B:484:THR:HG23	1:B:485:ALA:H	1.70	0.57
1:C:257:ASP:OD1	1:C:258:ALA:N	2.37	0.57
1:D:214:SER:HB3	1:D:269:PRO:HA	1.86	0.57
1:D:257:ASP:OD1	1:D:258:ALA:N	2.37	0.57
1:D:408:ALA:HB1	1:D:411:PHE:CD2	2.40	0.57
1:D:484:THR:HG23	1:D:485:ALA:H	1.70	0.57
1:F:176:VAL:HG12	1:F:177:ASN:N	2.20	0.57
1:G:576:VAL:HG12	1:G:577:ILE:HG12	1.87	0.57
1:H:257:ASP:OD1	1:H:258:ALA:N	2.37	0.57
1:H:368:PHE:HB3	1:H:544:ARG:NH1	2.20	0.57
1:H:576:VAL:HG12	1:H:577:ILE:HG12	1.87	0.57
1:I:272:ARG:HD2	1:I:274:THR:O	2.04	0.57
1:I:576:VAL:HG12	1:I:577:ILE:HG12	1.87	0.57
1:I:591:SER:HA	1:I:594:LEU:HD12	1.87	0.57
1:M:229:GLY:N	1:R:222:SER:OG	2.30	0.57
1:N:440:SER:CB	1:N:443:THR:OG1	2.51	0.57
1:O:517:ASN:C	1:O:519:ASP:N	2.61	0.57
1:Q:257:ASP:OD1	1:Q:258:ALA:N	2.37	0.57
1:Q:605:SER:CB	1:Q:650:ILE:HG21	2.29	0.57
1:R:205:ALA:HA	1:R:322:PHE:CE2	2.40	0.57
1:R:272:ARG:HD2	1:R:274:THR:O	2.05	0.57
1:S:272:ARG:HD2	1:S:274:THR:O	2.04	0.57
1:S:324:LEU:CD2	1:T:271:LEU:CD2	2.81	0.57
1:S:474:ARG:N	1:S:524:ASP:HA	2.13	0.57
1:A:230:LYS:CE	1:B:221:ILE:C	2.78	0.57
1:A:435:TYR:HD1	1:A:575:TYR:HH	1.51	0.57
1:A:576:VAL:HG12	1:A:577:ILE:HG12	1.87	0.57
1:B:401:GLU:OE1	1:B:402:LYS:N	2.38	0.57
1:B:482:SER:O	1:B:483:ASN:CB	2.53	0.57
1:C:221:ILE:HG22	1:C:310:VAL:HG13	1.86	0.57
1:C:230:LYS:CE	1:K:221:ILE:C	2.78	0.57
1:C:576:VAL:HG12	1:C:577:ILE:HG12	1.87	0.57
1:E:408:ALA:HB1	1:E:411:PHE:CD2	2.40	0.57
1:F:221:ILE:HG22	1:F:310:VAL:HG13	1.86	0.57
1:F:591:SER:HA	1:F:594:LEU:HD12	1.87	0.57
1:G:187:ILE:H	1:G:244:GLN:HE21	1.51	0.57
1:G:484:THR:HG23	1:G:485:ALA:H	1.69	0.57
1:G:555:GLU:C	1:G:556:THR:CG2	2.74	0.57
1:H:221:ILE:C	1:O:230:LYS:CE	2.78	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:176:VAL:HG12	1:I:177:ASN:N	2.20	0.57
1:K:474:ARG:N	1:K:524:ASP:HA	2.13	0.57
1:K:568:LYS:HE2	1:K:581:ASP:OD1	2.05	0.57
1:L:555:GLU:O	1:L:556:THR:HG22	2.01	0.57
1:M:221:ILE:HG22	1:M:310:VAL:HG13	1.85	0.57
1:N:408:ALA:HB1	1:N:411:PHE:CD2	2.40	0.57
1:Q:165:GLU:OE1	1:R:325:LEU:HB3	1.92	0.57
1:Q:451:TYR:CD1	1:Q:458:VAL:N	2.72	0.57
1:Q:568:LYS:HE2	1:Q:581:ASP:OD1	2.05	0.57
1:R:249:LEU:C	1:R:251:TYR:H	2.13	0.57
1:R:427:SER:OG	1:R:429:LEU:HD22	1.99	0.57
1:R:568:LYS:HE2	1:R:581:ASP:OD1	2.05	0.57
1:R:591:SER:HA	1:R:594:LEU:HD12	1.87	0.57
1:S:368:PHE:HB3	1:S:544:ARG:NH1	2.20	0.57
1:T:205:ALA:HA	1:T:322:PHE:CE2	2.40	0.57
1:T:272:ARG:HD2	1:T:274:THR:O	2.04	0.57
1:T:484:THR:HG23	1:T:485:ALA:H	1.70	0.57
1:A:205:ALA:HA	1:A:322:PHE:CE2	2.39	0.57
1:A:255:LEU:HD11	1:B:313:GLU:OE1	1.95	0.57
1:A:591:SER:HA	1:A:594:LEU:HD12	1.87	0.57
1:B:214:SER:HB3	1:B:269:PRO:HA	1.86	0.57
1:B:352:ASN:HB3	1:B:586:GLN:O	2.05	0.57
1:D:271:LEU:CD2	1:L:324:LEU:CD2	2.81	0.57
1:E:249:LEU:C	1:E:251:TYR:H	2.13	0.57
1:F:214:SER:HB3	1:F:269:PRO:HA	1.86	0.57
1:F:439:THR:HG23	1:F:457:ILE:CG1	2.34	0.57
1:G:162:VAL:HG12	1:G:164:SER:OG	2.03	0.57
1:G:189:PHE:CD1	1:G:289:ILE:HB	2.39	0.57
1:G:368:PHE:HB3	1:G:544:ARG:NH1	2.20	0.57
1:H:395:ILE:H	1:H:395:ILE:CD1	2.15	0.57
1:H:482:SER:O	1:H:483:ASN:CB	2.53	0.57
1:I:205:ALA:HA	1:I:322:PHE:CE2	2.40	0.57
1:I:352:ASN:HB3	1:I:586:GLN:O	2.05	0.57
1:K:591:SER:HA	1:K:594:LEU:HD12	1.87	0.57
1:L:368:PHE:HB3	1:L:544:ARG:NH1	2.20	0.57
1:L:576:VAL:HG12	1:L:577:ILE:HG12	1.87	0.57
1:M:187:ILE:CG1	1:M:244:GLN:HG2	2.33	0.57
1:M:205:ALA:HA	1:M:322:PHE:CE2	2.40	0.57
1:M:591:SER:HA	1:M:594:LEU:HD12	1.87	0.57
1:N:484:THR:HG23	1:N:485:ALA:H	1.70	0.57
1:P:249:LEU:C	1:P:251:TYR:H	2.13	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:484:THR:HG23	1:Q:485:ALA:H	1.70	0.57
1:Q:591:SER:HA	1:Q:594:LEU:HD12	1.87	0.57
1:R:440:SER:CB	1:R:443:THR:OG1	2.51	0.57
1:S:187:ILE:H	1:S:244:GLN:HE21	1.51	0.57
1:T:427:SER:OG	1:T:429:LEU:HD22	1.99	0.57
1:T:503:ILE:CG2	1:T:550:ILE:HD12	2.33	0.57
1:T:576:VAL:HG12	1:T:577:ILE:HG12	1.87	0.57
1:A:176:VAL:HG12	1:A:177:ASN:N	2.20	0.57
1:A:249:LEU:C	1:A:251:TYR:H	2.13	0.57
1:A:408:ALA:HB1	1:A:411:PHE:CD2	2.40	0.57
1:B:576:VAL:HG12	1:B:577:ILE:HG12	1.87	0.57
1:C:517:ASN:C	1:C:519:ASP:N	2.61	0.57
1:C:568:LYS:HE2	1:C:581:ASP:OD1	2.05	0.57
1:E:352:ASN:HB3	1:E:586:GLN:O	2.05	0.57
1:F:205:ALA:HA	1:F:322:PHE:CE2	2.40	0.57
1:F:221:ILE:C	1:K:230:LYS:CE	2.78	0.57
1:G:249:LEU:C	1:G:251:TYR:H	2.13	0.57
1:H:352:ASN:HB3	1:H:586:GLN:O	2.05	0.57
1:J:221:ILE:C	1:P:230:LYS:CE	2.78	0.57
1:J:464:LYS:HA	1:J:533:THR:CG2	2.31	0.57
1:J:568:LYS:HE2	1:J:581:ASP:OD1	2.04	0.57
1:K:221:ILE:CG2	1:K:310:VAL:HG22	2.32	0.57
1:K:257:ASP:OD1	1:K:258:ALA:N	2.37	0.57
1:L:221:ILE:CG2	1:L:310:VAL:HG22	2.32	0.57
1:M:401:GLU:CD	1:M:402:LYS:HG3	2.26	0.57
1:M:568:LYS:HE2	1:M:581:ASP:OD1	2.05	0.57
1:M:576:VAL:HG12	1:M:577:ILE:HG12	1.87	0.57
1:O:591:SER:HA	1:O:594:LEU:HD12	1.87	0.57
1:P:189:PHE:CD1	1:P:289:ILE:HB	2.38	0.57
1:P:205:ALA:HA	1:P:322:PHE:CE2	2.39	0.57
1:Q:249:LEU:C	1:Q:251:TYR:H	2.13	0.57
1:Q:368:PHE:HB3	1:Q:544:ARG:NH1	2.20	0.57
1:S:395:ILE:H	1:S:395:ILE:CD1	2.15	0.57
1:S:408:ALA:HB1	1:S:411:PHE:CD2	2.40	0.57
1:T:352:ASN:HB3	1:T:586:GLN:O	2.05	0.57
1:T:368:PHE:HB3	1:T:544:ARG:NH1	2.20	0.57
1:T:451:TYR:CD1	1:T:458:VAL:N	2.72	0.57
1:B:517:ASN:C	1:B:519:ASP:N	2.61	0.57
1:D:226:VAL:CG2	1:F:226:VAL:HA	2.26	0.57
1:D:368:PHE:HB3	1:D:544:ARG:NH1	2.20	0.57
1:D:568:LYS:HE2	1:D:581:ASP:OD1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:368:PHE:HB3	1:E:544:ARG:NH1	2.20	0.57
1:F:424:THR:HG22	1:F:425:ILE:N	2.20	0.57
1:I:249:LEU:C	1:I:251:TYR:H	2.13	0.57
1:J:257:ASP:OD1	1:J:258:ALA:N	2.37	0.57
1:J:451:TYR:CD1	1:J:458:VAL:N	2.72	0.57
1:K:271:LEU:CB	1:N:324:LEU:HD11	2.34	0.57
1:K:439:THR:HG23	1:K:457:ILE:CG1	2.34	0.57
1:L:352:ASN:HB3	1:L:586:GLN:O	2.05	0.57
1:L:408:ALA:HB1	1:L:411:PHE:CD2	2.40	0.57
1:L:474:ARG:N	1:L:524:ASP:HA	2.13	0.57
1:L:482:SER:O	1:L:483:ASN:CB	2.53	0.57
1:M:352:ASN:HB3	1:M:586:GLN:O	2.04	0.57
1:M:368:PHE:HB3	1:M:544:ARG:NH1	2.20	0.57
1:N:297:ASN:HD22	1:N:297:ASN:C	2.05	0.57
1:O:221:ILE:HG22	1:O:310:VAL:CG2	2.33	0.57
1:O:257:ASP:OD1	1:O:258:ALA:N	2.37	0.57
1:O:408:ALA:HB1	1:O:411:PHE:CD2	2.40	0.57
1:P:402:LYS:HD3	1:P:511:PHE:CG	2.32	0.57
1:P:481:ILE:O	1:P:482:SER:C	2.47	0.57
1:P:568:LYS:HE2	1:P:581:ASP:OD1	2.04	0.57
1:Q:408:ALA:HB1	1:Q:411:PHE:CD2	2.40	0.57
1:Q:517:ASN:C	1:Q:519:ASP:N	2.61	0.57
1:R:481:ILE:O	1:R:482:SER:C	2.47	0.57
1:R:484:THR:HG23	1:R:485:ALA:H	1.70	0.57
1:S:324:LEU:HD11	1:T:271:LEU:CB	2.35	0.57
1:S:352:ASN:HB3	1:S:586:GLN:O	2.05	0.57
1:S:401:GLU:OE1	1:S:402:LYS:N	2.38	0.57
1:S:568:LYS:HE2	1:S:581:ASP:OD1	2.04	0.57
1:T:176:VAL:HG12	1:T:177:ASN:N	2.20	0.57
1:T:408:ALA:HB1	1:T:411:PHE:CD2	2.40	0.57
1:A:221:ILE:HG22	1:A:310:VAL:HG13	1.85	0.57
1:B:439:THR:HG23	1:B:457:ILE:CG1	2.35	0.57
1:C:176:VAL:HG12	1:C:177:ASN:N	2.20	0.57
1:D:272:ARG:HD2	1:D:274:THR:O	2.04	0.57
1:E:190:LYS:HB2	1:E:652:LEU:CD1	2.24	0.57
1:E:259:ARG:HA	1:L:259:ARG:NH1	2.16	0.57
1:E:341:LEU:HB2	1:E:342:ILE:CD1	2.35	0.57
1:E:424:THR:HG22	1:E:425:ILE:N	2.20	0.57
1:E:576:VAL:HG12	1:E:577:ILE:HG12	1.87	0.57
1:E:610:ARG:HH21	1:E:648:MET:CE	2.18	0.57
1:F:451:TYR:CD1	1:F:458:VAL:N	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:222:SER:OG	1:N:229:GLY:N	2.30	0.57
1:H:176:VAL:HG12	1:H:177:ASN:N	2.20	0.57
1:H:255:LEU:HD11	1:T:313:GLU:OE1	1.95	0.57
1:H:440:SER:CB	1:H:443:THR:OG1	2.51	0.57
1:L:187:ILE:H	1:L:244:GLN:HE21	1.50	0.57
1:L:221:ILE:C	1:T:230:LYS:CE	2.78	0.57
1:L:249:LEU:C	1:L:251:TYR:H	2.13	0.57
1:M:249:LEU:C	1:M:251:TYR:H	2.13	0.57
1:M:272:ARG:HD2	1:M:274:THR:O	2.04	0.57
1:M:424:THR:HG22	1:M:425:ILE:N	2.20	0.57
1:N:214:SER:HB3	1:N:269:PRO:HA	1.86	0.57
1:N:272:ARG:HD2	1:N:274:THR:O	2.04	0.57
1:N:354:TYR:OH	1:N:467:TYR:CE2	2.58	0.57
1:O:439:THR:HG23	1:O:457:ILE:CG1	2.35	0.57
1:P:218:ARG:HB2	1:P:265:VAL:CG2	2.34	0.57
1:P:272:ARG:HD2	1:P:274:THR:O	2.04	0.57
1:R:189:PHE:CD1	1:R:289:ILE:HB	2.38	0.57
1:R:214:SER:HB3	1:R:269:PRO:HA	1.86	0.57
1:S:257:ASP:OD1	1:S:258:ALA:N	2.37	0.57
1:A:610:ARG:HH21	1:A:648:MET:CE	2.19	0.56
1:C:205:ALA:HA	1:C:322:PHE:CE2	2.40	0.56
1:C:297:ASN:C	1:C:297:ASN:ND2	2.59	0.56
1:C:481:ILE:O	1:C:482:SER:C	2.47	0.56
1:D:503:ILE:CG2	1:D:550:ILE:HD12	2.33	0.56
1:F:221:ILE:HG22	1:F:310:VAL:CG2	2.33	0.56
1:G:230:LYS:CE	1:I:221:ILE:C	2.78	0.56
1:G:272:ARG:HD2	1:G:274:THR:O	2.05	0.56
1:G:352:ASN:HB3	1:G:586:GLN:O	2.04	0.56
1:G:354:TYR:OH	1:G:467:TYR:CE2	2.58	0.56
1:G:408:ALA:HB1	1:G:411:PHE:CD2	2.40	0.56
1:G:610:ARG:HH21	1:G:648:MET:CE	2.18	0.56
1:H:272:ARG:HD2	1:H:274:THR:O	2.04	0.56
1:J:481:ILE:O	1:J:482:SER:C	2.47	0.56
1:K:368:PHE:HB3	1:K:544:ARG:NH1	2.20	0.56
1:L:341:LEU:HB2	1:L:342:ILE:CD1	2.35	0.56
1:L:424:THR:HG22	1:L:425:ILE:N	2.20	0.56
1:L:481:ILE:O	1:L:482:SER:C	2.47	0.56
1:M:271:LEU:CB	1:Q:324:LEU:HD11	2.35	0.56
1:M:484:THR:HG23	1:M:485:ALA:H	1.70	0.56
1:N:368:PHE:HB3	1:N:544:ARG:NH1	2.20	0.56
1:N:568:LYS:HE2	1:N:581:ASP:OD1	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:341:LEU:HB2	1:O:342:ILE:CD1	2.35	0.56
1:P:368:PHE:HB3	1:P:544:ARG:NH1	2.20	0.56
1:P:533:THR:O	1:P:535:ILE:HG23	2.06	0.56
1:P:591:SER:HA	1:P:594:LEU:HD12	1.87	0.56
1:Q:189:PHE:CD1	1:Q:289:ILE:HB	2.38	0.56
1:Q:439:THR:HG23	1:Q:457:ILE:CG1	2.35	0.56
1:R:401:GLU:OE1	1:R:402:LYS:N	2.38	0.56
1:R:403:LEU:CD2	1:R:514:ASN:HD21	2.19	0.56
1:S:327:PRO:HG2	1:T:237:PRO:CD	2.31	0.56
1:T:190:LYS:HB2	1:T:652:LEU:CD1	2.24	0.56
1:T:601:LEU:CD1	1:T:650:ILE:CG1	2.62	0.56
1:A:221:ILE:CG2	1:A:310:VAL:HG22	2.32	0.56
1:A:403:LEU:CD2	1:A:514:ASN:HD21	2.19	0.56
1:A:568:LYS:HE2	1:A:581:ASP:OD1	2.05	0.56
1:C:424:THR:HG22	1:C:425:ILE:N	2.20	0.56
1:C:484:THR:HG23	1:C:485:ALA:H	1.70	0.56
1:C:591:SER:HA	1:C:594:LEU:HD12	1.87	0.56
1:D:352:ASN:HB3	1:D:586:GLN:O	2.05	0.56
1:D:401:GLU:OE1	1:D:402:LYS:N	2.38	0.56
1:D:439:THR:HG23	1:D:457:ILE:CG1	2.34	0.56
1:D:591:SER:HA	1:D:594:LEU:HD12	1.87	0.56
1:E:221:ILE:C	1:L:230:LYS:CE	2.78	0.56
1:F:352:ASN:HB3	1:F:586:GLN:O	2.05	0.56
1:F:482:SER:O	1:F:483:ASN:CB	2.52	0.56
1:G:214:SER:HB3	1:G:269:PRO:HA	1.86	0.56
1:G:226:VAL:CG2	1:N:226:VAL:HA	2.27	0.56
1:H:439:THR:HG23	1:H:457:ILE:CG1	2.35	0.56
1:I:368:PHE:HB3	1:I:544:ARG:NH1	2.20	0.56
1:I:424:THR:HG22	1:I:425:ILE:N	2.20	0.56
1:J:205:ALA:HA	1:J:322:PHE:CE2	2.40	0.56
1:J:408:ALA:HB1	1:J:411:PHE:CD2	2.40	0.56
1:K:427:SER:OG	1:K:429:LEU:HD22	1.99	0.56
1:M:440:SER:CB	1:M:443:THR:OG1	2.51	0.56
1:M:533:THR:O	1:M:535:ILE:HG23	2.05	0.56
1:N:221:ILE:C	1:R:230:LYS:CE	2.78	0.56
1:N:249:LEU:C	1:N:251:TYR:H	2.13	0.56
1:O:249:LEU:C	1:O:251:TYR:H	2.13	0.56
1:O:272:ARG:HD2	1:O:274:THR:O	2.04	0.56
1:O:482:SER:O	1:O:483:ASN:CB	2.53	0.56
1:P:176:VAL:HG12	1:P:177:ASN:N	2.20	0.56
1:Q:341:LEU:HB2	1:Q:342:ILE:CD1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:576:VAL:HG12	1:Q:577:ILE:HG12	1.87	0.56
1:R:341:LEU:HB2	1:R:342:ILE:CD1	2.35	0.56
1:R:424:THR:HG22	1:R:425:ILE:N	2.20	0.56
1:S:517:ASN:C	1:S:519:ASP:N	2.61	0.56
1:S:591:SER:HA	1:S:594:LEU:HD12	1.87	0.56
1:A:453:SER:O	1:A:456:GLU:O	2.24	0.56
1:A:510:VAL:CG1	1:A:511:PHE:N	2.45	0.56
1:B:221:ILE:HG22	1:B:310:VAL:CG2	2.33	0.56
1:B:249:LEU:C	1:B:251:TYR:H	2.13	0.56
1:B:327:PRO:HG2	1:F:237:PRO:HD2	1.84	0.56
1:B:368:PHE:HB3	1:B:544:ARG:NH1	2.20	0.56
1:B:403:LEU:CD2	1:B:514:ASN:HD21	2.19	0.56
1:B:427:SER:HG	1:B:429:LEU:HD21	1.66	0.56
1:B:533:THR:O	1:B:535:ILE:HG23	2.06	0.56
1:C:187:ILE:H	1:C:244:GLN:HE21	1.51	0.56
1:C:189:PHE:CD1	1:C:289:ILE:HB	2.38	0.56
1:C:222:SER:OG	1:S:229:GLY:N	2.30	0.56
1:C:408:ALA:HB1	1:C:411:PHE:CD2	2.40	0.56
1:C:474:ARG:O	1:C:475:ALA:HB2	2.06	0.56
1:C:533:THR:O	1:C:535:ILE:HG23	2.06	0.56
1:C:610:ARG:HH21	1:C:648:MET:CE	2.19	0.56
1:D:482:SER:O	1:D:483:ASN:CB	2.53	0.56
1:E:221:ILE:HG22	1:E:310:VAL:CG2	2.33	0.56
1:E:437:VAL:CG1	1:E:438:THR:N	2.34	0.56
1:E:474:ARG:O	1:E:475:ALA:HB2	2.06	0.56
1:E:503:ILE:CG2	1:E:550:ILE:HD12	2.33	0.56
1:E:517:ASN:C	1:E:519:ASP:N	2.61	0.56
1:E:591:SER:HA	1:E:594:LEU:HD12	1.87	0.56
1:F:387:ARG:HH22	1:N:348:LEU:HD21	1.69	0.56
1:F:403:LEU:CD2	1:F:514:ASN:HD21	2.19	0.56
1:F:408:ALA:HB1	1:F:411:PHE:CD2	2.40	0.56
1:F:484:THR:HG23	1:F:485:ALA:H	1.70	0.56
1:G:230:LYS:HG2	1:I:222:SER:CB	2.30	0.56
1:G:427:SER:OG	1:G:429:LEU:HD22	1.99	0.56
1:G:517:ASN:C	1:G:519:ASP:N	2.61	0.56
1:H:230:LYS:CE	1:T:221:ILE:C	2.78	0.56
1:H:354:TYR:OH	1:H:467:TYR:CE2	2.58	0.56
1:H:403:LEU:CD2	1:H:514:ASN:HD21	2.19	0.56
1:H:533:THR:O	1:H:535:ILE:HG23	2.06	0.56
1:H:591:SER:HA	1:H:594:LEU:HD12	1.87	0.56
1:I:214:SER:HB3	1:I:269:PRO:HA	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:229:GLY:N	1:M:222:SER:OG	2.30	0.56
1:I:230:LYS:CE	1:M:221:ILE:C	2.78	0.56
1:I:341:LEU:HB2	1:I:342:ILE:CD1	2.36	0.56
1:I:354:TYR:OH	1:I:467:TYR:CE2	2.58	0.56
1:I:453:SER:O	1:I:456:GLU:O	2.24	0.56
1:J:221:ILE:HG22	1:J:310:VAL:CG2	2.33	0.56
1:J:352:ASN:HB3	1:J:586:GLN:O	2.05	0.56
1:J:503:ILE:CG2	1:J:550:ILE:HD12	2.33	0.56
1:J:591:SER:HA	1:J:594:LEU:HD12	1.87	0.56
1:J:610:ARG:HH21	1:J:648:MET:CE	2.19	0.56
1:K:249:LEU:C	1:K:251:TYR:H	2.13	0.56
1:K:440:SER:CB	1:K:443:THR:OG1	2.51	0.56
1:K:481:ILE:O	1:K:482:SER:C	2.47	0.56
1:K:484:THR:HG23	1:K:485:ALA:H	1.70	0.56
1:L:403:LEU:CD2	1:L:514:ASN:HD21	2.19	0.56
1:L:439:THR:HG23	1:L:457:ILE:CG1	2.35	0.56
1:L:451:TYR:CD1	1:L:457:ILE:CB	2.77	0.56
1:L:591:SER:HA	1:L:594:LEU:HD12	1.87	0.56
1:M:230:LYS:CE	1:R:221:ILE:C	2.78	0.56
1:M:341:LEU:HB2	1:M:342:ILE:CD1	2.36	0.56
1:M:451:TYR:CD1	1:M:458:VAL:N	2.72	0.56
1:M:482:SER:O	1:M:483:ASN:CB	2.53	0.56
1:M:517:ASN:C	1:M:519:ASP:N	2.61	0.56
1:M:555:GLU:C	1:M:556:THR:CG2	2.74	0.56
1:N:205:ALA:HA	1:N:322:PHE:CE2	2.40	0.56
1:N:257:ASP:OD1	1:N:258:ALA:N	2.37	0.56
1:N:341:LEU:HB2	1:N:342:ILE:CD1	2.36	0.56
1:N:424:THR:HG22	1:N:425:ILE:N	2.20	0.56
1:N:451:TYR:CD1	1:N:458:VAL:N	2.72	0.56
1:N:610:ARG:HH21	1:N:648:MET:CE	2.18	0.56
1:O:214:SER:HB3	1:O:269:PRO:HA	1.86	0.56
1:O:352:ASN:HB3	1:O:586:GLN:O	2.05	0.56
1:P:352:ASN:HB3	1:P:586:GLN:O	2.05	0.56
1:P:402:LYS:HD3	1:P:511:PHE:CE2	2.34	0.56
1:P:408:ALA:HB1	1:P:411:PHE:CD2	2.40	0.56
1:Q:297:ASN:C	1:Q:297:ASN:ND2	2.59	0.56
1:Q:401:GLU:OE1	1:Q:402:LYS:N	2.38	0.56
1:R:408:ALA:HB1	1:R:411:PHE:CD2	2.40	0.56
1:S:221:ILE:HG22	1:S:310:VAL:HG13	1.85	0.56
1:S:249:LEU:C	1:S:251:TYR:H	2.13	0.56
1:S:324:LEU:HD21	1:T:271:LEU:HD22	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:403:LEU:CD2	1:S:514:ASN:HD21	2.19	0.56
1:S:453:SER:O	1:S:456:GLU:O	2.24	0.56
1:S:576:VAL:HG12	1:S:577:ILE:HG12	1.87	0.56
1:T:403:LEU:CD2	1:T:514:ASN:HD21	2.19	0.56
1:T:439:THR:HG23	1:T:457:ILE:CG1	2.34	0.56
1:A:368:PHE:HB3	1:A:544:ARG:NH1	2.20	0.56
1:A:555:GLU:O	1:A:556:THR:HG22	2.01	0.56
1:B:205:ALA:HA	1:B:322:PHE:CE2	2.40	0.56
1:B:324:LEU:CD2	1:F:271:LEU:CD2	2.81	0.56
1:B:451:TYR:CD1	1:B:458:VAL:N	2.72	0.56
1:D:176:VAL:HG12	1:D:177:ASN:N	2.20	0.56
1:D:221:ILE:C	1:F:230:LYS:CE	2.78	0.56
1:D:230:LYS:CE	1:S:221:ILE:C	2.78	0.56
1:D:342:ILE:H	1:D:342:ILE:HD12	1.68	0.56
1:D:424:THR:HG22	1:D:425:ILE:N	2.20	0.56
1:G:482:SER:O	1:G:483:ASN:CB	2.53	0.56
1:H:249:LEU:C	1:H:251:TYR:H	2.13	0.56
1:H:451:TYR:CD1	1:H:458:VAL:N	2.72	0.56
1:J:341:LEU:HB2	1:J:342:ILE:CD1	2.35	0.56
1:J:354:TYR:OH	1:J:467:TYR:CE2	2.58	0.56
1:K:408:ALA:HB1	1:K:411:PHE:CD2	2.40	0.56
1:L:453:SER:O	1:L:456:GLU:O	2.24	0.56
1:N:439:THR:HG23	1:N:457:ILE:CG1	2.35	0.56
1:Q:427:SER:OG	1:Q:429:LEU:HD22	1.99	0.56
1:R:176:VAL:HG12	1:R:177:ASN:N	2.20	0.56
1:R:503:ILE:CG2	1:R:550:ILE:HD12	2.33	0.56
1:R:533:THR:O	1:R:535:ILE:HG23	2.06	0.56
1:S:424:THR:HG22	1:S:425:ILE:N	2.20	0.56
1:S:482:SER:O	1:S:483:ASN:CB	2.52	0.56
1:S:533:THR:O	1:S:535:ILE:HG23	2.06	0.56
1:A:190:LYS:HB2	1:A:652:LEU:CD1	2.24	0.56
1:A:214:SER:HB3	1:A:269:PRO:HA	1.86	0.56
1:A:424:THR:HG22	1:A:425:ILE:N	2.20	0.56
1:A:484:THR:HG23	1:A:485:ALA:H	1.70	0.56
1:B:324:LEU:HD22	1:F:271:LEU:CD1	2.34	0.56
1:B:342:ILE:H	1:B:342:ILE:HD12	1.68	0.56
1:B:354:TYR:OH	1:B:467:TYR:CE2	2.58	0.56
1:B:568:LYS:HE2	1:B:581:ASP:OD1	2.05	0.56
1:C:354:TYR:OH	1:C:467:TYR:CE2	2.58	0.56
1:C:403:LEU:CD2	1:C:514:ASN:HD21	2.19	0.56
1:D:555:GLU:C	1:D:556:THR:CG2	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:427:SER:OG	1:E:429:LEU:HD22	1.99	0.56
1:E:484:THR:HG23	1:E:485:ALA:H	1.70	0.56
1:E:533:THR:O	1:E:535:ILE:HG23	2.06	0.56
1:F:272:ARG:HD2	1:F:274:THR:O	2.04	0.56
1:F:368:PHE:HB3	1:F:544:ARG:NH1	2.20	0.56
1:F:641:PHE:C	1:F:643:LEU:H	2.14	0.56
1:G:403:LEU:CD2	1:G:514:ASN:HD21	2.19	0.56
1:G:439:THR:HG23	1:G:457:ILE:CG1	2.34	0.56
1:I:482:SER:O	1:I:483:ASN:CB	2.52	0.56
1:I:533:THR:O	1:I:535:ILE:HG23	2.05	0.56
1:J:356:THR:HG1	1:J:569:ASN:CG	2.09	0.56
1:K:272:ARG:HD2	1:K:274:THR:O	2.04	0.56
1:L:176:VAL:HG12	1:L:177:ASN:N	2.20	0.56
1:O:533:THR:O	1:O:535:ILE:HG23	2.06	0.56
1:P:403:LEU:CD2	1:P:514:ASN:HD21	2.18	0.56
1:P:453:SER:O	1:P:456:GLU:O	2.24	0.56
1:Q:352:ASN:HB3	1:Q:586:GLN:O	2.04	0.56
1:R:352:ASN:HB3	1:R:586:GLN:O	2.05	0.56
1:R:439:THR:HG23	1:R:457:ILE:CG1	2.34	0.56
1:S:205:ALA:HA	1:S:322:PHE:CE2	2.39	0.56
1:T:199:PRO:O	1:T:202:THR:HG22	2.06	0.56
1:T:221:ILE:HG22	1:T:310:VAL:CG2	2.33	0.56
1:T:453:SER:O	1:T:456:GLU:O	2.24	0.56
1:T:533:THR:O	1:T:535:ILE:HG23	2.06	0.56
1:T:568:LYS:HE2	1:T:581:ASP:OD1	2.04	0.56
1:A:221:ILE:C	1:J:230:LYS:CE	2.78	0.56
1:A:348:LEU:HD21	1:E:387:ARG:HH22	1.69	0.56
1:B:237:PRO:HD2	1:R:327:PRO:HG2	1.84	0.56
1:B:272:ARG:HD2	1:B:274:THR:O	2.04	0.56
1:B:325:LEU:CD2	1:D:165:GLU:CB	2.82	0.56
1:B:408:ALA:HB1	1:B:411:PHE:CD2	2.40	0.56
1:C:221:ILE:C	1:S:230:LYS:CE	2.78	0.56
1:C:341:LEU:HB2	1:C:342:ILE:CD1	2.35	0.56
1:C:641:PHE:C	1:C:643:LEU:H	2.14	0.56
1:D:249:LEU:C	1:D:251:TYR:H	2.13	0.56
1:D:271:LEU:CB	1:L:324:LEU:HD11	2.35	0.56
1:D:403:LEU:CD2	1:D:514:ASN:HD21	2.19	0.56
1:E:176:VAL:HG12	1:E:177:ASN:N	2.20	0.56
1:E:230:LYS:CE	1:O:221:ILE:C	2.78	0.56
1:E:272:ARG:HD2	1:E:274:THR:O	2.04	0.56
1:E:439:THR:HG23	1:E:457:ILE:CG1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:474:ARG:N	1:E:524:ASP:HA	2.13	0.56
1:F:189:PHE:CD1	1:F:289:ILE:HB	2.39	0.56
1:F:249:LEU:C	1:F:251:TYR:H	2.13	0.56
1:G:176:VAL:HG12	1:G:177:ASN:N	2.20	0.56
1:G:221:ILE:C	1:N:230:LYS:CE	2.78	0.56
1:G:221:ILE:CG2	1:G:310:VAL:HG22	2.32	0.56
1:G:568:LYS:HE2	1:G:581:ASP:OD1	2.05	0.56
1:G:591:SER:HA	1:G:594:LEU:HD12	1.87	0.56
1:I:408:ALA:HB1	1:I:411:PHE:CD2	2.40	0.56
1:I:641:PHE:C	1:I:643:LEU:H	2.14	0.56
1:J:368:PHE:HB3	1:J:544:ARG:NH1	2.20	0.56
1:J:439:THR:HG23	1:J:457:ILE:CG1	2.34	0.56
1:K:482:SER:O	1:K:483:ASN:CB	2.53	0.56
1:M:354:TYR:OH	1:M:467:TYR:CE2	2.58	0.56
1:M:465:SER:HA	1:M:532:TYR:CZ	2.41	0.56
1:N:403:LEU:CD2	1:N:514:ASN:HD21	2.19	0.56
1:N:464:LYS:HA	1:N:533:THR:CG2	2.31	0.56
1:N:533:THR:O	1:N:535:ILE:HG23	2.06	0.56
1:N:641:PHE:C	1:N:643:LEU:H	2.14	0.56
1:O:503:ILE:C	1:O:503:ILE:CD1	2.74	0.56
1:O:568:LYS:HE2	1:O:581:ASP:OD1	2.05	0.56
1:O:576:VAL:HG12	1:O:577:ILE:HG12	1.87	0.56
1:O:610:ARG:HH21	1:O:648:MET:CE	2.19	0.56
1:P:341:LEU:HB2	1:P:342:ILE:CD1	2.35	0.56
1:Q:176:VAL:HG12	1:Q:177:ASN:N	2.20	0.56
1:Q:453:SER:O	1:Q:456:GLU:O	2.24	0.56
1:Q:610:ARG:HH21	1:Q:648:MET:CE	2.19	0.56
1:Q:641:PHE:C	1:Q:643:LEU:H	2.14	0.56
1:T:591:SER:HA	1:T:594:LEU:HD12	1.87	0.56
1:B:226:VAL:HA	1:Q:226:VAL:CG2	2.26	0.56
1:B:474:ARG:O	1:B:475:ALA:HB2	2.06	0.56
1:B:641:PHE:C	1:B:643:LEU:H	2.14	0.56
1:C:249:LEU:C	1:C:251:TYR:H	2.13	0.56
1:C:451:TYR:CD1	1:C:458:VAL:N	2.72	0.56
1:D:465:SER:HA	1:D:532:TYR:CZ	2.41	0.56
1:E:226:VAL:CG2	1:L:226:VAL:HA	2.27	0.56
1:F:576:VAL:HG12	1:F:577:ILE:HG12	1.87	0.56
1:G:199:PRO:O	1:G:202:THR:HG22	2.06	0.56
1:G:221:ILE:HG22	1:G:310:VAL:CG2	2.33	0.56
1:I:503:ILE:CG2	1:I:550:ILE:HD12	2.33	0.56
1:J:222:SER:CB	1:P:230:LYS:HG2	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:484:THR:HG23	1:J:485:ALA:H	1.70	0.56
1:K:424:THR:HG22	1:K:425:ILE:N	2.20	0.56
1:K:482:SER:OG	1:K:483:ASN:N	2.39	0.56
1:M:176:VAL:HG12	1:M:177:ASN:N	2.20	0.56
1:N:465:SER:HA	1:N:532:TYR:CZ	2.41	0.56
1:O:403:LEU:CD2	1:O:514:ASN:HD21	2.19	0.56
1:P:221:ILE:C	1:Q:230:LYS:CE	2.78	0.56
1:P:517:ASN:C	1:P:519:ASP:N	2.61	0.56
1:Q:187:ILE:H	1:Q:244:GLN:HE21	1.51	0.56
1:Q:484:THR:OG1	1:Q:485:ALA:N	2.39	0.56
1:R:482:SER:O	1:R:483:ASN:CB	2.52	0.56
1:S:221:ILE:CG2	1:S:310:VAL:HG22	2.32	0.56
1:S:439:THR:HG23	1:S:457:ILE:CG1	2.34	0.56
1:S:474:ARG:O	1:S:475:ALA:HB2	2.06	0.56
1:A:341:LEU:HB2	1:A:342:ILE:CD1	2.35	0.56
1:A:465:SER:HA	1:A:532:TYR:CZ	2.41	0.56
1:B:424:THR:HG22	1:B:425:ILE:N	2.20	0.56
1:B:458:VAL:HG12	1:B:458:VAL:O	2.06	0.56
1:B:610:ARG:HH21	1:B:648:MET:CE	2.19	0.56
1:C:218:ARG:HB2	1:C:265:VAL:CG2	2.34	0.56
1:C:368:PHE:HB3	1:C:544:ARG:NH1	2.20	0.56
1:D:251:TYR:HD1	1:L:328:PRO:CB	1.75	0.56
1:D:341:LEU:HB2	1:D:342:ILE:CD1	2.36	0.56
1:D:533:THR:O	1:D:535:ILE:HG23	2.06	0.56
1:E:408:ALA:HB1	1:E:411:PHE:HD2	1.71	0.56
1:G:440:SER:CB	1:G:443:THR:OG1	2.51	0.56
1:H:226:VAL:CG2	1:O:226:VAL:HA	2.26	0.56
1:J:176:VAL:HG12	1:J:177:ASN:N	2.20	0.56
1:J:249:LEU:C	1:J:251:TYR:H	2.13	0.56
1:J:474:ARG:O	1:J:475:ALA:HB2	2.06	0.56
1:K:214:SER:HB3	1:K:269:PRO:HA	1.86	0.56
1:K:533:THR:O	1:K:535:ILE:HG23	2.05	0.56
1:L:199:PRO:O	1:L:202:THR:HG22	2.06	0.56
1:L:533:THR:O	1:L:535:ILE:HG23	2.05	0.56
1:M:610:ARG:HH21	1:M:648:MET:CE	2.18	0.56
1:M:641:PHE:C	1:M:643:LEU:H	2.14	0.56
1:N:458:VAL:HG12	1:N:458:VAL:O	2.06	0.56
1:O:176:VAL:HG12	1:O:177:ASN:N	2.20	0.56
1:O:297:ASN:C	1:O:297:ASN:ND2	2.59	0.56
1:O:484:THR:HG23	1:O:485:ALA:H	1.70	0.56
1:P:354:TYR:OH	1:P:467:TYR:CE2	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:482:SER:O	1:P:483:ASN:CB	2.53	0.56
1:R:451:TYR:O	1:R:456:GLU:O	2.24	0.56
1:S:484:THR:HG23	1:S:485:ALA:H	1.70	0.56
1:T:458:VAL:HG12	1:T:458:VAL:O	2.06	0.56
1:A:199:PRO:O	1:A:202:THR:HG22	2.06	0.56
1:B:230:LYS:CE	1:Q:221:ILE:C	2.78	0.56
1:B:440:SER:CB	1:B:443:THR:OG1	2.51	0.56
1:C:465:SER:HA	1:C:532:TYR:CZ	2.41	0.56
1:D:610:ARG:HH21	1:D:648:MET:CE	2.18	0.56
1:D:641:PHE:C	1:D:643:LEU:H	2.14	0.56
1:E:403:LEU:CD2	1:E:514:ASN:HD21	2.19	0.56
1:F:259:ARG:HA	1:K:259:ARG:NH1	2.16	0.56
1:F:474:ARG:O	1:F:475:ALA:HB2	2.06	0.56
1:F:474:ARG:N	1:F:524:ASP:HA	2.13	0.56
1:H:408:ALA:HB1	1:H:411:PHE:CD2	2.40	0.56
1:H:474:ARG:O	1:H:475:ALA:HB2	2.06	0.56
1:I:458:VAL:HG12	1:I:458:VAL:O	2.06	0.56
1:I:484:THR:HG23	1:I:485:ALA:H	1.70	0.56
1:J:440:SER:CB	1:J:443:THR:OG1	2.51	0.56
1:J:533:THR:O	1:J:535:ILE:HG23	2.06	0.56
1:K:437:VAL:CG1	1:K:438:THR:N	2.34	0.56
1:K:555:GLU:C	1:K:556:THR:CG2	2.74	0.56
1:L:356:THR:OG1	1:L:569:ASN:ND2	2.39	0.56
1:L:465:SER:HA	1:L:532:TYR:CZ	2.41	0.56
1:P:484:THR:HG23	1:P:485:ALA:H	1.70	0.56
1:Q:424:THR:HG22	1:Q:425:ILE:N	2.20	0.56
1:Q:465:SER:HA	1:Q:532:TYR:CZ	2.41	0.56
1:R:451:TYR:CD1	1:R:458:VAL:N	2.72	0.56
1:R:465:SER:HA	1:R:532:TYR:CZ	2.41	0.56
1:R:578:ARG:C	1:R:579:SER:OG	2.49	0.56
1:R:610:ARG:HH21	1:R:648:MET:CE	2.18	0.56
1:S:482:SER:OG	1:S:483:ASN:N	2.39	0.56
1:S:610:ARG:HH21	1:S:648:MET:CE	2.18	0.56
1:S:641:PHE:C	1:S:643:LEU:H	2.14	0.56
1:T:408:ALA:HB1	1:T:411:PHE:HD2	1.71	0.56
1:T:605:SER:CB	1:T:650:ILE:HG23	2.27	0.56
1:A:328:PRO:CD	1:L:252:PRO:HD2	2.06	0.56
1:A:451:TYR:O	1:A:456:GLU:O	2.24	0.56
1:B:341:LEU:HB2	1:B:342:ILE:CD1	2.36	0.56
1:C:453:SER:O	1:C:456:GLU:O	2.24	0.56
1:D:199:PRO:O	1:D:202:THR:HG22	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:259:ARG:HA	1:F:259:ARG:NH1	2.16	0.56
1:E:230:LYS:HG2	1:O:222:SER:CB	2.30	0.56
1:E:356:THR:OG1	1:E:569:ASN:ND2	2.39	0.56
1:F:341:LEU:HB2	1:F:342:ILE:CD1	2.35	0.56
1:F:533:THR:O	1:F:535:ILE:HG23	2.06	0.56
1:G:205:ALA:HA	1:G:322:PHE:CE2	2.40	0.56
1:G:397:GLN:HG2	1:G:523:SER:CB	2.36	0.56
1:H:259:ARG:NH1	1:T:259:ARG:HA	2.16	0.56
1:H:578:ARG:C	1:H:579:SER:OG	2.49	0.56
1:I:403:LEU:CD2	1:I:514:ASN:HD21	2.19	0.56
1:I:474:ARG:O	1:I:475:ALA:HB2	2.06	0.56
1:J:199:PRO:O	1:J:202:THR:HG22	2.06	0.56
1:J:356:THR:OG1	1:J:569:ASN:ND2	2.39	0.56
1:J:397:GLN:HG2	1:J:523:SER:CB	2.36	0.56
1:J:408:ALA:HB1	1:J:411:PHE:HD2	1.71	0.56
1:J:576:VAL:HG12	1:J:577:ILE:HG12	1.87	0.56
1:K:403:LEU:CD2	1:K:514:ASN:HD21	2.19	0.56
1:L:387:ARG:HH22	1:S:348:LEU:HD21	1.69	0.56
1:L:503:ILE:CG2	1:L:550:ILE:HD12	2.33	0.56
1:M:403:LEU:CD2	1:M:514:ASN:HD21	2.19	0.56
1:M:453:SER:O	1:M:456:GLU:O	2.24	0.56
1:N:352:ASN:HB3	1:N:586:GLN:O	2.05	0.56
1:O:424:THR:HG22	1:O:425:ILE:N	2.20	0.56
1:P:465:SER:HA	1:P:532:TYR:CZ	2.41	0.56
1:P:474:ARG:O	1:P:475:ALA:HB2	2.06	0.56
1:Q:190:LYS:HB3	1:Q:652:LEU:HD11	1.88	0.56
1:Q:397:GLN:HG2	1:Q:523:SER:CB	2.36	0.56
1:Q:451:TYR:O	1:Q:456:GLU:O	2.24	0.56
1:Q:503:ILE:CG2	1:Q:550:ILE:HD12	2.33	0.56
1:Q:533:THR:O	1:Q:535:ILE:HG23	2.06	0.56
1:S:189:PHE:CD1	1:S:289:ILE:HB	2.38	0.56
1:S:356:THR:OG1	1:S:569:ASN:ND2	2.39	0.56
1:T:416:ILE:H	1:T:416:ILE:CD1	2.10	0.56
1:A:271:LEU:HD22	1:D:324:LEU:HD21	1.85	0.55
1:A:533:THR:O	1:A:535:ILE:HG23	2.06	0.55
1:B:229:GLY:N	1:Q:222:SER:OG	2.30	0.55
1:B:453:SER:O	1:B:456:GLU:O	2.24	0.55
1:D:190:LYS:HB3	1:D:652:LEU:HD11	1.88	0.55
1:D:356:THR:OG1	1:D:569:ASN:ND2	2.39	0.55
1:D:474:ARG:O	1:D:475:ALA:HB2	2.06	0.55
1:F:610:ARG:HH21	1:F:648:MET:CE	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:424:THR:HG22	1:G:425:ILE:N	2.20	0.55
1:G:453:SER:O	1:G:456:GLU:O	2.24	0.55
1:H:221:ILE:HG22	1:H:310:VAL:CG2	2.33	0.55
1:H:341:LEU:HB2	1:H:342:ILE:CD1	2.36	0.55
1:H:451:TYR:O	1:H:456:GLU:O	2.24	0.55
1:H:641:PHE:C	1:H:643:LEU:H	2.14	0.55
1:J:403:LEU:CD2	1:J:514:ASN:HD21	2.18	0.55
1:K:342:ILE:H	1:K:342:ILE:HD12	1.68	0.55
1:K:354:TYR:OH	1:K:467:TYR:CE2	2.58	0.55
1:K:465:SER:HA	1:K:532:TYR:CZ	2.41	0.55
1:K:474:ARG:O	1:K:475:ALA:HB2	2.06	0.55
1:L:408:ALA:HB1	1:L:411:PHE:HD2	1.72	0.55
1:M:271:LEU:CD1	1:Q:324:LEU:HD22	2.34	0.55
1:P:199:PRO:O	1:P:202:THR:HG22	2.06	0.55
1:P:424:THR:HG22	1:P:425:ILE:N	2.20	0.55
1:P:458:VAL:HG12	1:P:458:VAL:O	2.06	0.55
1:R:190:LYS:HB3	1:R:652:LEU:HD11	1.88	0.55
1:R:474:ARG:O	1:R:475:ALA:HB2	2.06	0.55
1:S:190:LYS:HB3	1:S:652:LEU:HD11	1.88	0.55
1:S:199:PRO:O	1:S:202:THR:HG22	2.06	0.55
1:S:218:ARG:HB2	1:S:265:VAL:CG2	2.34	0.55
1:S:427:SER:OG	1:S:429:LEU:HD22	1.99	0.55
1:T:189:PHE:CD1	1:T:289:ILE:HB	2.38	0.55
1:T:578:ARG:C	1:T:579:SER:OG	2.49	0.55
1:A:354:TYR:OH	1:A:467:TYR:CE2	2.58	0.55
1:A:408:ALA:HB1	1:A:411:PHE:HD2	1.71	0.55
1:B:503:ILE:CG2	1:B:550:ILE:HD12	2.33	0.55
1:C:230:LYS:HG2	1:K:222:SER:CB	2.30	0.55
1:E:482:SER:OG	1:E:483:ASN:N	2.39	0.55
1:F:325:LEU:HB3	1:N:165:GLU:OE1	1.92	0.55
1:F:408:ALA:HB1	1:F:411:PHE:HD2	1.71	0.55
1:G:341:LEU:HB2	1:G:342:ILE:CD1	2.36	0.55
1:G:356:THR:OG1	1:G:569:ASN:ND2	2.39	0.55
1:G:578:ARG:C	1:G:579:SER:OG	2.49	0.55
1:H:401:GLU:OE1	1:H:402:LYS:N	2.38	0.55
1:H:610:ARG:HH21	1:H:648:MET:CE	2.18	0.55
1:I:189:PHE:CD1	1:I:289:ILE:HB	2.38	0.55
1:I:190:LYS:HB3	1:I:652:LEU:HD11	1.88	0.55
1:I:482:SER:OG	1:I:483:ASN:N	2.39	0.55
1:J:641:PHE:C	1:J:643:LEU:H	2.14	0.55
1:K:190:LYS:HB3	1:K:652:LEU:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:237:PRO:CD	1:N:327:PRO:HG2	2.31	0.55
1:K:458:VAL:O	1:K:458:VAL:HG12	2.06	0.55
1:L:280:SER:OG	1:L:334:HIS:CE1	2.50	0.55
1:L:568:LYS:HE2	1:L:581:ASP:OD1	2.05	0.55
1:M:221:ILE:CG2	1:M:310:VAL:HG22	2.32	0.55
1:M:403:LEU:HD21	1:M:514:ASN:HD21	1.72	0.55
1:N:578:ARG:C	1:N:579:SER:OG	2.49	0.55
1:O:190:LYS:HB3	1:O:652:LEU:HD11	1.88	0.55
1:O:503:ILE:CG2	1:O:550:ILE:HD12	2.33	0.55
1:O:578:ARG:C	1:O:579:SER:OG	2.49	0.55
1:P:578:ARG:C	1:P:579:SER:OG	2.49	0.55
1:Q:402:LYS:HZ2	1:Q:511:PHE:HE2	1.51	0.55
1:R:356:THR:HG1	1:R:569:ASN:CG	2.14	0.55
1:S:354:TYR:OH	1:S:467:TYR:CE2	2.58	0.55
1:T:249:LEU:C	1:T:251:TYR:H	2.13	0.55
1:A:271:LEU:CD1	1:D:324:LEU:HD22	2.34	0.55
1:F:342:ILE:H	1:F:342:ILE:HD12	1.68	0.55
1:G:465:SER:HA	1:G:532:TYR:CZ	2.41	0.55
1:H:218:ARG:HB2	1:H:265:VAL:CG2	2.34	0.55
1:I:401:GLU:OE1	1:I:402:LYS:N	2.38	0.55
1:I:568:LYS:HE2	1:I:581:ASP:OD1	2.04	0.55
1:J:453:SER:O	1:J:456:GLU:O	2.24	0.55
1:L:325:LEU:HD23	1:S:165:GLU:OE1	1.94	0.55
1:L:578:ARG:C	1:L:579:SER:OG	2.49	0.55
1:L:610:ARG:HH21	1:L:648:MET:CE	2.18	0.55
1:M:275:LEU:HG	1:Q:275:LEU:CD1	2.26	0.55
1:P:221:ILE:HG22	1:P:310:VAL:CG2	2.33	0.55
1:Q:356:THR:OG1	1:Q:569:ASN:ND2	2.39	0.55
1:Q:440:SER:CB	1:Q:443:THR:OG1	2.51	0.55
1:R:397:GLN:HG2	1:R:523:SER:CB	2.36	0.55
1:S:176:VAL:HG12	1:S:177:ASN:N	2.20	0.55
1:S:341:LEU:HB2	1:S:342:ILE:CD1	2.36	0.55
1:S:403:LEU:HD21	1:S:514:ASN:HD21	1.72	0.55
1:S:465:SER:HA	1:S:532:TYR:CZ	2.41	0.55
1:T:482:SER:O	1:T:483:ASN:CB	2.53	0.55
1:A:458:VAL:HG12	1:A:458:VAL:O	2.06	0.55
1:B:199:PRO:O	1:B:202:THR:HG22	2.06	0.55
1:B:356:THR:OG1	1:B:569:ASN:ND2	2.39	0.55
1:B:398:LYS:H	1:B:403:LEU:CD2	2.19	0.55
1:B:451:TYR:O	1:B:456:GLU:O	2.24	0.55
1:D:189:PHE:CD1	1:D:289:ILE:HB	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:337:VAL:CG1	1:D:338:PRO:HD2	2.37	0.55
1:D:566:PHE:CD2	1:D:583:PHE:HB3	2.42	0.55
1:E:324:LEU:HD22	1:J:271:LEU:CD1	2.34	0.55
1:E:451:TYR:O	1:E:456:GLU:O	2.24	0.55
1:F:221:ILE:CG2	1:F:310:VAL:HG22	2.32	0.55
1:F:566:PHE:CD2	1:F:583:PHE:HB3	2.42	0.55
1:G:226:VAL:HA	1:I:226:VAL:CG2	2.26	0.55
1:G:484:THR:OG1	1:G:485:ALA:N	2.39	0.55
1:H:190:LYS:HB3	1:H:652:LEU:HD11	1.88	0.55
1:H:397:GLN:HG2	1:H:523:SER:CB	2.36	0.55
1:I:451:TYR:O	1:I:456:GLU:O	2.24	0.55
1:I:484:THR:OG1	1:I:485:ALA:N	2.39	0.55
1:I:610:ARG:HH21	1:I:648:MET:CE	2.18	0.55
1:K:341:LEU:HB2	1:K:342:ILE:CD1	2.35	0.55
1:K:525:VAL:HG12	1:K:526:THR:N	2.22	0.55
1:L:165:GLU:CB	1:S:325:LEU:CD2	2.82	0.55
1:L:474:ARG:O	1:L:475:ALA:HB2	2.06	0.55
1:M:474:ARG:O	1:M:475:ALA:HB2	2.06	0.55
1:N:451:TYR:O	1:N:456:GLU:O	2.24	0.55
1:P:403:LEU:HD21	1:P:514:ASN:HD21	1.72	0.55
1:P:566:PHE:CD2	1:P:583:PHE:HB3	2.42	0.55
1:Q:165:GLU:CG	1:R:325:LEU:HD23	2.21	0.55
1:Q:199:PRO:O	1:Q:202:THR:HG22	2.06	0.55
1:Q:403:LEU:CD2	1:Q:514:ASN:HD21	2.19	0.55
1:R:356:THR:OG1	1:R:569:ASN:ND2	2.39	0.55
1:R:453:SER:O	1:R:456:GLU:O	2.24	0.55
1:R:566:PHE:CD2	1:R:583:PHE:HB3	2.42	0.55
1:S:285:THR:HG22	1:S:286:SER:N	2.22	0.55
1:T:337:VAL:CG1	1:T:338:PRO:HD2	2.37	0.55
1:T:464:LYS:HA	1:T:533:THR:CG2	2.31	0.55
1:A:259:ARG:NH1	1:B:259:ARG:HA	2.16	0.55
1:A:324:LEU:CD2	1:L:271:LEU:CD2	2.81	0.55
1:A:401:GLU:OE1	1:A:402:LYS:N	2.38	0.55
1:B:271:LEU:CB	1:R:324:LEU:HD11	2.35	0.55
1:E:354:TYR:OH	1:E:467:TYR:CE2	2.58	0.55
1:E:566:PHE:CD2	1:E:583:PHE:HB3	2.42	0.55
1:F:403:LEU:HD21	1:F:514:ASN:HD21	1.72	0.55
1:F:427:SER:OG	1:F:429:LEU:HD22	1.99	0.55
1:G:441:ASN:C	1:G:443:THR:H	2.15	0.55
1:G:641:PHE:C	1:G:643:LEU:H	2.14	0.55
1:H:356:THR:HG1	1:H:569:ASN:CG	2.13	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:424:THR:HG22	1:H:425:ILE:N	2.20	0.55
1:H:441:ASN:C	1:H:443:THR:H	2.15	0.55
1:H:601:LEU:CD1	1:H:650:ILE:CG1	2.62	0.55
1:I:427:SER:OG	1:I:429:LEU:HD22	1.99	0.55
1:K:451:TYR:O	1:K:456:GLU:O	2.24	0.55
1:K:453:SER:O	1:K:456:GLU:O	2.24	0.55
1:K:610:ARG:HH21	1:K:648:MET:CE	2.19	0.55
1:L:189:PHE:CD1	1:L:289:ILE:HB	2.38	0.55
1:L:285:THR:HG22	1:L:286:SER:N	2.22	0.55
1:M:199:PRO:O	1:M:202:THR:HG22	2.06	0.55
1:M:285:THR:HG22	1:M:286:SER:N	2.22	0.55
1:M:408:ALA:HB1	1:M:411:PHE:HD2	1.71	0.55
1:N:356:THR:OG1	1:N:569:ASN:ND2	2.39	0.55
1:O:218:ARG:HB2	1:O:265:VAL:CG2	2.34	0.55
1:O:465:SER:HA	1:O:532:TYR:CZ	2.41	0.55
1:O:641:PHE:C	1:O:643:LEU:H	2.14	0.55
1:Q:387:ARG:HH22	1:R:348:LEU:HD21	1.69	0.55
1:Q:398:LYS:H	1:Q:403:LEU:CD2	2.19	0.55
1:S:398:LYS:H	1:S:403:LEU:CD2	2.19	0.55
1:T:397:GLN:HG2	1:T:523:SER:CB	2.36	0.55
1:T:439:THR:HG1	1:T:457:ILE:H	1.54	0.55
1:T:451:TYR:O	1:T:456:GLU:O	2.24	0.55
1:A:325:LEU:CD2	1:E:165:GLU:CB	2.82	0.55
1:A:337:VAL:CG1	1:A:338:PRO:HD2	2.37	0.55
1:A:480:LYS:NZ	1:E:575:TYR:CA	2.53	0.55
1:B:465:SER:HA	1:B:532:TYR:CZ	2.41	0.55
1:C:184:GLN:HG3	1:C:292:TYR:O	2.07	0.55
1:C:401:GLU:OE1	1:C:402:LYS:N	2.38	0.55
1:C:566:PHE:CD2	1:C:583:PHE:HB3	2.42	0.55
1:D:403:LEU:HD21	1:D:514:ASN:HD21	1.72	0.55
1:D:451:TYR:O	1:D:456:GLU:O	2.24	0.55
1:D:453:SER:O	1:D:456:GLU:O	2.24	0.55
1:D:482:SER:OG	1:D:483:ASN:N	2.39	0.55
1:E:464:LYS:HA	1:E:533:THR:CG2	2.31	0.55
1:E:578:ARG:C	1:E:579:SER:OG	2.49	0.55
1:F:356:THR:OG1	1:F:569:ASN:ND2	2.39	0.55
1:G:403:LEU:HD21	1:G:514:ASN:HD21	1.72	0.55
1:G:533:THR:O	1:G:535:ILE:HG23	2.06	0.55
1:I:465:SER:HA	1:I:532:TYR:CZ	2.41	0.55
1:J:470:GLY:H	1:J:530:LEU:CD1	2.20	0.55
1:J:566:PHE:CD2	1:J:583:PHE:HB3	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:218:ARG:HB2	1:K:265:VAL:CG2	2.34	0.55
1:L:190:LYS:HB3	1:L:652:LEU:HD11	1.88	0.55
1:M:337:VAL:CG1	1:M:338:PRO:HD2	2.37	0.55
1:N:190:LYS:HB3	1:N:652:LEU:HD11	1.88	0.55
1:N:453:SER:O	1:N:456:GLU:O	2.24	0.55
1:O:525:VAL:HG12	1:O:526:THR:N	2.22	0.55
1:Q:458:VAL:HG12	1:Q:458:VAL:O	2.06	0.55
1:R:576:VAL:HG12	1:R:577:ILE:HG12	1.87	0.55
1:S:464:LYS:HA	1:S:533:THR:CG2	2.31	0.55
1:S:566:PHE:CD2	1:S:583:PHE:HB3	2.42	0.55
1:T:341:LEU:HB2	1:T:342:ILE:CD1	2.35	0.55
1:A:605:SER:CB	1:A:650:ILE:HG23	2.27	0.55
1:B:189:PHE:CD1	1:B:289:ILE:HB	2.38	0.55
1:C:398:LYS:H	1:C:403:LEU:CD2	2.20	0.55
1:D:398:LYS:H	1:D:403:LEU:CD2	2.20	0.55
1:D:468:ILE:HD12	1:D:486:PHE:CZ	2.42	0.55
1:E:324:LEU:HD11	1:J:271:LEU:CB	2.35	0.55
1:E:453:SER:O	1:E:456:GLU:O	2.24	0.55
1:F:184:GLN:HG3	1:F:292:TYR:O	2.07	0.55
1:F:437:VAL:CG1	1:F:438:THR:N	2.34	0.55
1:F:465:SER:HA	1:F:532:TYR:CZ	2.41	0.55
1:F:578:ARG:C	1:F:579:SER:OG	2.49	0.55
1:G:184:GLN:HG3	1:G:292:TYR:O	2.07	0.55
1:G:482:SER:OG	1:G:483:ASN:N	2.39	0.55
1:H:398:LYS:H	1:H:403:LEU:CD2	2.20	0.55
1:I:199:PRO:O	1:I:202:THR:HG22	2.06	0.55
1:I:356:THR:OG1	1:I:569:ASN:ND2	2.39	0.55
1:I:408:ALA:HB1	1:I:411:PHE:HD2	1.71	0.55
1:I:451:TYR:CD1	1:I:458:VAL:N	2.72	0.55
1:I:566:PHE:CD2	1:I:583:PHE:HB3	2.42	0.55
1:I:578:ARG:C	1:I:579:SER:HG	2.13	0.55
1:J:184:GLN:HG3	1:J:292:TYR:O	2.07	0.55
1:J:337:VAL:CG1	1:J:338:PRO:HD2	2.37	0.55
1:K:401:GLU:OE1	1:K:402:LYS:N	2.38	0.55
1:L:464:LYS:HA	1:L:533:THR:CG2	2.31	0.55
1:N:468:ILE:HD12	1:N:486:PHE:CZ	2.42	0.55
1:N:591:SER:HA	1:N:594:LEU:HD12	1.87	0.55
1:O:356:THR:OG1	1:O:569:ASN:ND2	2.39	0.55
1:P:172:PHE:CE1	1:Q:292:TYR:OH	2.60	0.55
1:P:259:ARG:HA	1:Q:259:ARG:NH1	2.16	0.55
1:P:398:LYS:H	1:P:403:LEU:CD2	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:470:GLY:H	1:P:530:LEU:CD1	2.20	0.55
1:Q:354:TYR:OH	1:Q:467:TYR:CE2	2.58	0.55
1:Q:408:ALA:HB1	1:Q:411:PHE:HD2	1.72	0.55
1:Q:464:LYS:HA	1:Q:533:THR:CG2	2.31	0.55
1:R:184:GLN:HG3	1:R:292:TYR:O	2.07	0.55
1:T:184:GLN:HG3	1:T:292:TYR:O	2.07	0.55
1:T:403:LEU:HD21	1:T:514:ASN:HD21	1.72	0.55
1:T:469:CYS:HA	1:T:530:LEU:HD13	1.89	0.55
1:A:237:PRO:HD2	1:D:330:SER:HB2	1.89	0.55
1:A:285:THR:HG22	1:A:286:SER:N	2.22	0.55
1:A:356:THR:OG1	1:A:569:ASN:ND2	2.39	0.55
1:A:398:LYS:H	1:A:403:LEU:CD2	2.19	0.55
1:B:292:TYR:OH	1:Q:172:PHE:CE1	2.60	0.55
1:B:324:LEU:HD11	1:F:271:LEU:CB	2.35	0.55
1:B:578:ARG:C	1:B:579:SER:OG	2.49	0.55
1:C:468:ILE:HD12	1:C:486:PHE:CZ	2.42	0.55
1:E:218:ARG:HB2	1:E:265:VAL:CG2	2.34	0.55
1:E:226:VAL:HA	1:O:226:VAL:CG2	2.26	0.55
1:E:465:SER:HA	1:E:532:TYR:CZ	2.41	0.55
1:F:165:GLU:CB	1:N:325:LEU:CD2	2.82	0.55
1:F:354:TYR:OH	1:F:467:TYR:CE2	2.58	0.55
1:F:458:VAL:HG12	1:F:458:VAL:O	2.06	0.55
1:G:451:TYR:O	1:G:456:GLU:O	2.24	0.55
1:G:474:ARG:O	1:G:475:ALA:HB2	2.06	0.55
1:H:356:THR:OG1	1:H:569:ASN:ND2	2.39	0.55
1:H:465:SER:HA	1:H:532:TYR:CZ	2.41	0.55
1:H:525:VAL:HG12	1:H:526:THR:N	2.22	0.55
1:I:221:ILE:HG22	1:I:310:VAL:CG2	2.33	0.55
1:I:525:VAL:HG12	1:I:526:THR:N	2.22	0.55
1:J:221:ILE:CG2	1:J:310:VAL:HG22	2.32	0.55
1:J:458:VAL:HG12	1:J:458:VAL:O	2.06	0.55
1:K:285:THR:HG22	1:K:286:SER:N	2.22	0.55
1:M:356:THR:OG1	1:M:569:ASN:ND2	2.39	0.55
1:M:468:ILE:HD12	1:M:486:PHE:CZ	2.42	0.55
1:N:176:VAL:HG12	1:N:177:ASN:N	2.20	0.55
1:N:503:ILE:CG2	1:N:550:ILE:HD12	2.33	0.55
1:P:576:VAL:HG12	1:P:577:ILE:HG12	1.87	0.55
1:Q:285:THR:HG22	1:Q:286:SER:N	2.22	0.55
1:R:354:TYR:OH	1:R:467:TYR:CE2	2.58	0.55
1:R:441:ASN:C	1:R:443:THR:H	2.15	0.55
1:R:525:VAL:HG12	1:R:526:THR:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:398:LYS:H	1:T:403:LEU:CD2	2.20	0.55
1:T:465:SER:HA	1:T:532:TYR:CZ	2.41	0.55
1:T:474:ARG:O	1:T:475:ALA:HB2	2.05	0.55
1:T:610:ARG:HH21	1:T:648:MET:CE	2.18	0.55
1:A:172:PHE:CE1	1:J:292:TYR:OH	2.60	0.55
1:A:397:GLN:HG2	1:A:523:SER:CB	2.36	0.55
1:A:451:TYR:CD1	1:A:458:VAL:N	2.72	0.55
1:B:408:ALA:HB1	1:B:411:PHE:HD2	1.71	0.55
1:C:292:TYR:OH	1:K:172:PHE:CE1	2.60	0.55
1:C:356:THR:OG1	1:C:569:ASN:ND2	2.39	0.55
1:C:451:TYR:O	1:C:456:GLU:O	2.24	0.55
1:C:458:VAL:HG12	1:C:458:VAL:O	2.06	0.55
1:C:470:GLY:H	1:C:530:LEU:CD1	2.20	0.55
1:C:525:VAL:HG12	1:C:526:THR:N	2.22	0.55
1:E:184:GLN:HG3	1:E:292:TYR:O	2.07	0.55
1:E:458:VAL:HG12	1:E:458:VAL:O	2.06	0.55
1:F:453:SER:O	1:F:456:GLU:O	2.24	0.55
1:F:484:THR:OG1	1:F:485:ALA:N	2.39	0.55
1:G:337:VAL:CG1	1:G:338:PRO:HD2	2.37	0.55
1:G:402:LYS:HD3	1:G:511:PHE:CE2	2.34	0.55
1:I:402:LYS:HZ2	1:I:511:PHE:HE2	1.49	0.55
1:I:578:ARG:C	1:I:579:SER:OG	2.49	0.55
1:J:172:PHE:CE1	1:P:292:TYR:OH	2.60	0.55
1:J:465:SER:HA	1:J:532:TYR:CZ	2.41	0.55
1:K:184:GLN:HG3	1:K:292:TYR:O	2.07	0.55
1:K:237:PRO:HD2	1:N:330:SER:HB2	1.89	0.55
1:K:337:VAL:CG1	1:K:338:PRO:HD2	2.37	0.55
1:K:468:ILE:HD12	1:K:486:PHE:CZ	2.42	0.55
1:K:566:PHE:CD2	1:K:583:PHE:HB3	2.42	0.55
1:L:470:GLY:H	1:L:530:LEU:CD1	2.20	0.55
1:M:401:GLU:OE1	1:M:402:LYS:N	2.38	0.55
1:N:441:ASN:C	1:N:443:THR:H	2.15	0.55
1:O:184:GLN:HG3	1:O:292:TYR:O	2.07	0.55
1:O:401:GLU:OE1	1:O:402:LYS:N	2.38	0.55
1:P:190:LYS:HB3	1:P:652:LEU:HD11	1.88	0.55
1:P:427:SER:OG	1:P:429:LEU:HD22	1.99	0.55
1:P:610:ARG:HH21	1:P:648:MET:CE	2.18	0.55
1:Q:469:CYS:HA	1:Q:530:LEU:HD13	1.89	0.55
1:R:403:LEU:HD21	1:R:514:ASN:HD21	1.72	0.55
1:R:458:VAL:HG12	1:R:458:VAL:O	2.06	0.55
1:S:525:VAL:HG12	1:S:526:THR:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:482:SER:OG	1:T:483:ASN:N	2.39	0.55
1:T:566:PHE:CD2	1:T:583:PHE:HB3	2.42	0.55
1:A:324:LEU:HD13	1:L:271:LEU:HB3	1.88	0.55
1:A:468:ILE:HD12	1:A:486:PHE:CZ	2.42	0.55
1:A:469:CYS:HA	1:A:530:LEU:HD13	1.89	0.55
1:B:216:ASP:HA	1:B:267:THR:HG22	1.89	0.55
1:B:427:SER:OG	1:B:429:LEU:HD22	1.99	0.55
1:C:190:LYS:HB3	1:C:652:LEU:HD11	1.88	0.55
1:C:199:PRO:O	1:C:202:THR:HG22	2.06	0.55
1:C:569:ASN:C	1:C:570:THR:CG2	2.80	0.55
1:D:184:GLN:HG3	1:D:292:TYR:O	2.07	0.55
1:D:221:ILE:CG2	1:D:310:VAL:HG22	2.32	0.55
1:E:337:VAL:CG1	1:E:338:PRO:HD2	2.37	0.55
1:E:641:PHE:C	1:E:643:LEU:H	2.14	0.55
1:F:468:ILE:HD12	1:F:486:PHE:CZ	2.42	0.55
1:G:259:ARG:NH1	1:I:259:ARG:HA	2.16	0.55
1:G:458:VAL:O	1:G:458:VAL:HG12	2.06	0.55
1:J:424:THR:HG22	1:J:425:ILE:N	2.20	0.55
1:K:578:ARG:C	1:K:579:SER:OG	2.49	0.55
1:L:403:LEU:HD21	1:L:514:ASN:HD21	1.72	0.55
1:L:427:SER:OG	1:L:429:LEU:HD22	1.99	0.55
1:L:555:GLU:C	1:L:556:THR:CG2	2.74	0.55
1:M:190:LYS:HB3	1:M:652:LEU:HD11	1.88	0.55
1:M:251:TYR:CB	1:Q:328:PRO:O	2.55	0.55
1:M:292:TYR:OH	1:R:172:PHE:CE1	2.60	0.55
1:M:470:GLY:H	1:M:530:LEU:CD1	2.20	0.55
1:N:408:ALA:HB1	1:N:411:PHE:HD2	1.71	0.55
1:N:416:ILE:HG13	1:N:503:ILE:CD1	2.37	0.55
1:N:469:CYS:HA	1:N:530:LEU:HD13	1.89	0.55
1:O:470:GLY:H	1:O:530:LEU:CD1	2.20	0.55
1:R:199:PRO:O	1:R:202:THR:HG22	2.06	0.55
1:R:398:LYS:H	1:R:403:LEU:CD2	2.19	0.55
1:R:470:GLY:H	1:R:530:LEU:CD1	2.20	0.55
1:R:641:PHE:C	1:R:643:LEU:H	2.14	0.55
1:S:328:PRO:O	1:T:251:TYR:CB	2.55	0.55
1:S:458:VAL:O	1:S:458:VAL:HG12	2.06	0.55
1:T:354:TYR:OH	1:T:467:TYR:CE2	2.58	0.55
1:T:424:THR:HG22	1:T:425:ILE:N	2.20	0.55
1:B:237:PRO:HD2	1:R:330:SER:HB2	1.89	0.54
1:C:337:VAL:CG1	1:C:338:PRO:HD2	2.37	0.54
1:D:251:TYR:CB	1:L:328:PRO:O	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:280:SER:OG	1:D:334:HIS:CE1	2.50	0.54
1:D:416:ILE:HG13	1:D:503:ILE:CD1	2.38	0.54
1:E:216:ASP:HA	1:E:267:THR:HG22	1.90	0.54
1:E:324:LEU:HD13	1:J:271:LEU:HB3	1.88	0.54
1:E:398:LYS:H	1:E:403:LEU:CD2	2.20	0.54
1:F:285:THR:HG22	1:F:286:SER:N	2.22	0.54
1:F:324:LEU:HD21	1:R:271:LEU:HD22	1.85	0.54
1:G:408:ALA:HB1	1:G:411:PHE:HD2	1.71	0.54
1:G:468:ILE:HD12	1:G:486:PHE:CZ	2.42	0.54
1:H:199:PRO:O	1:H:202:THR:HG22	2.06	0.54
1:H:453:SER:O	1:H:456:GLU:O	2.24	0.54
1:H:605:SER:CB	1:H:650:ILE:HG23	2.27	0.54
1:L:566:PHE:CD2	1:L:583:PHE:HB3	2.42	0.54
1:M:484:THR:OG1	1:M:485:ALA:N	2.39	0.54
1:M:566:PHE:CD2	1:M:583:PHE:HB3	2.42	0.54
1:N:199:PRO:O	1:N:202:THR:HG22	2.06	0.54
1:O:468:ILE:HD12	1:O:486:PHE:CZ	2.42	0.54
1:O:566:PHE:CD2	1:O:583:PHE:HB3	2.42	0.54
1:P:184:GLN:HG3	1:P:292:TYR:O	2.07	0.54
1:P:356:THR:OG1	1:P:569:ASN:ND2	2.39	0.54
1:P:441:ASN:C	1:P:443:THR:H	2.15	0.54
1:Q:441:ASN:C	1:Q:443:THR:H	2.15	0.54
1:R:468:ILE:HD12	1:R:486:PHE:CZ	2.42	0.54
1:S:184:GLN:HG3	1:S:292:TYR:O	2.07	0.54
1:S:441:ASN:C	1:S:443:THR:H	2.15	0.54
1:T:416:ILE:HG13	1:T:503:ILE:CD1	2.38	0.54
1:A:165:GLU:CB	1:E:325:LEU:CD2	2.82	0.54
1:A:324:LEU:HD11	1:L:271:LEU:CB	2.35	0.54
1:A:441:ASN:C	1:A:443:THR:H	2.15	0.54
1:A:641:PHE:C	1:A:643:LEU:H	2.14	0.54
1:B:403:LEU:HD21	1:B:514:ASN:HD21	1.72	0.54
1:C:408:ALA:HB1	1:C:411:PHE:HD2	1.71	0.54
1:D:172:PHE:CE1	1:F:292:TYR:OH	2.60	0.54
1:D:218:ARG:HB2	1:D:265:VAL:CG2	2.34	0.54
1:D:285:THR:HG22	1:D:286:SER:N	2.22	0.54
1:E:280:SER:OG	1:E:334:HIS:CE1	2.50	0.54
1:E:403:LEU:HD21	1:E:514:ASN:HD21	1.72	0.54
1:E:416:ILE:HG13	1:E:503:ILE:CD1	2.37	0.54
1:E:468:ILE:HD12	1:E:486:PHE:CZ	2.42	0.54
1:E:607:ALA:HB3	1:E:623:ILE:HG12	1.90	0.54
1:F:226:VAL:CG2	1:K:226:VAL:HA	2.27	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:577:ILE:C	1:F:578:ARG:HG3	2.33	0.54
1:G:469:CYS:O	1:G:485:ALA:HB3	2.08	0.54
1:H:416:ILE:HG13	1:H:503:ILE:CD1	2.38	0.54
1:H:470:GLY:H	1:H:530:LEU:CD1	2.20	0.54
1:H:566:PHE:CD2	1:H:583:PHE:HB3	2.42	0.54
1:I:470:GLY:H	1:I:530:LEU:CD1	2.20	0.54
1:J:285:THR:HG22	1:J:286:SER:N	2.22	0.54
1:J:441:ASN:C	1:J:443:THR:H	2.15	0.54
1:J:468:ILE:HD12	1:J:486:PHE:CZ	2.42	0.54
1:J:577:ILE:C	1:J:578:ARG:HG3	2.33	0.54
1:K:216:ASP:HA	1:K:267:THR:HG22	1.89	0.54
1:K:251:TYR:CB	1:N:328:PRO:O	2.55	0.54
1:K:641:PHE:C	1:K:643:LEU:H	2.14	0.54
1:L:468:ILE:HD12	1:L:486:PHE:CZ	2.42	0.54
1:M:416:ILE:HG13	1:M:503:ILE:CD1	2.38	0.54
1:N:397:GLN:HG2	1:N:523:SER:CB	2.36	0.54
1:N:474:ARG:O	1:N:475:ALA:HB2	2.06	0.54
1:O:337:VAL:CG1	1:O:338:PRO:HD2	2.37	0.54
1:O:398:LYS:H	1:O:403:LEU:CD2	2.20	0.54
1:O:474:ARG:O	1:O:475:ALA:HB2	2.06	0.54
1:Q:566:PHE:CD2	1:Q:583:PHE:HB3	2.42	0.54
1:S:216:ASP:HA	1:S:267:THR:HG22	1.90	0.54
1:S:451:TYR:CD1	1:S:458:VAL:N	2.72	0.54
1:S:451:TYR:O	1:S:456:GLU:O	2.24	0.54
1:T:468:ILE:HD12	1:T:486:PHE:CZ	2.42	0.54
1:T:469:CYS:O	1:T:485:ALA:HB3	2.08	0.54
1:A:190:LYS:HB3	1:A:652:LEU:HD11	1.89	0.54
1:A:326:LYS:HG3	1:L:237:PRO:CG	2.34	0.54
1:B:176:VAL:HG12	1:B:177:ASN:N	2.20	0.54
1:B:441:ASN:C	1:B:443:THR:H	2.15	0.54
1:C:216:ASP:HA	1:C:267:THR:HG22	1.90	0.54
1:C:469:CYS:O	1:C:485:ALA:HB3	2.08	0.54
1:D:237:PRO:HD2	1:L:330:SER:HB2	1.89	0.54
1:D:356:THR:HG1	1:D:569:ASN:CG	2.14	0.54
1:E:199:PRO:O	1:E:202:THR:HG22	2.06	0.54
1:F:337:VAL:CG1	1:F:338:PRO:HD2	2.37	0.54
1:F:416:ILE:HG13	1:F:503:ILE:CD1	2.38	0.54
1:G:216:ASP:HA	1:G:267:THR:HG22	1.89	0.54
1:G:469:CYS:HA	1:G:530:LEU:HD13	1.89	0.54
1:G:569:ASN:C	1:G:570:THR:CG2	2.80	0.54
1:H:408:ALA:HB1	1:H:411:PHE:HD2	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:464:LYS:HA	1:H:533:THR:CG2	2.31	0.54
1:I:337:VAL:CG1	1:I:338:PRO:HD2	2.37	0.54
1:I:416:ILE:HG13	1:I:503:ILE:CD1	2.38	0.54
1:I:468:ILE:HD12	1:I:486:PHE:CZ	2.42	0.54
1:I:469:CYS:O	1:I:485:ALA:HB3	2.08	0.54
1:I:532:TYR:CE2	1:I:535:ILE:HD12	2.43	0.54
1:J:469:CYS:O	1:J:485:ALA:HB3	2.08	0.54
1:K:398:LYS:H	1:K:403:LEU:CD2	2.20	0.54
1:K:470:GLY:H	1:K:530:LEU:CD1	2.20	0.54
1:K:503:ILE:CG2	1:K:550:ILE:HD12	2.33	0.54
1:M:451:TYR:O	1:M:456:GLU:O	2.24	0.54
1:N:484:THR:OG1	1:N:485:ALA:N	2.39	0.54
1:O:354:TYR:OH	1:O:467:TYR:CE2	2.58	0.54
1:P:607:ALA:HB3	1:P:623:ILE:HG12	1.90	0.54
1:P:641:PHE:C	1:P:643:LEU:H	2.14	0.54
1:Q:165:GLU:CB	1:R:325:LEU:CD2	2.82	0.54
1:Q:578:ARG:C	1:Q:579:SER:OG	2.49	0.54
1:R:216:ASP:HA	1:R:267:THR:HG22	1.90	0.54
1:R:504:ASN:CB	1:R:505:PRO:HD2	2.19	0.54
1:S:324:LEU:HD22	1:T:271:LEU:CD1	2.34	0.54
1:S:330:SER:HB2	1:T:237:PRO:HD2	1.89	0.54
1:S:337:VAL:CG1	1:S:338:PRO:HD2	2.37	0.54
1:S:468:ILE:HD12	1:S:486:PHE:CZ	2.42	0.54
1:S:469:CYS:O	1:S:485:ALA:HB3	2.08	0.54
1:T:401:GLU:OE1	1:T:402:LYS:N	2.38	0.54
1:T:441:ASN:C	1:T:443:THR:H	2.15	0.54
1:A:292:TYR:OH	1:B:172:PHE:CE1	2.60	0.54
1:B:190:LYS:HB3	1:B:652:LEU:HD11	1.89	0.54
1:B:221:ILE:CG2	1:B:310:VAL:HG22	2.32	0.54
1:B:271:LEU:HB3	1:R:324:LEU:HD13	1.88	0.54
1:B:328:PRO:O	1:F:251:TYR:CB	2.55	0.54
1:B:330:SER:HB2	1:F:237:PRO:HD2	1.89	0.54
1:B:337:VAL:CG1	1:B:338:PRO:HD2	2.37	0.54
1:B:577:ILE:C	1:B:578:ARG:HG3	2.33	0.54
1:C:221:ILE:CG2	1:C:310:VAL:HG22	2.32	0.54
1:D:292:TYR:OH	1:S:172:PHE:CE1	2.60	0.54
1:D:525:VAL:HG12	1:D:526:THR:N	2.22	0.54
1:F:199:PRO:O	1:F:202:THR:HG22	2.06	0.54
1:F:324:LEU:HD11	1:R:271:LEU:CB	2.35	0.54
1:F:451:TYR:O	1:F:456:GLU:O	2.24	0.54
1:F:469:CYS:HA	1:F:530:LEU:HD13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:292:TYR:OH	1:I:172:PHE:CE1	2.60	0.54
1:H:469:CYS:HA	1:H:530:LEU:HD13	1.89	0.54
1:H:503:ILE:CG2	1:H:550:ILE:HD12	2.33	0.54
1:J:189:PHE:CD1	1:J:289:ILE:HB	2.38	0.54
1:J:607:ALA:HB3	1:J:623:ILE:HG12	1.90	0.54
1:K:356:THR:OG1	1:K:569:ASN:ND2	2.39	0.54
1:K:469:CYS:HA	1:K:530:LEU:HD13	1.89	0.54
1:L:398:LYS:H	1:L:403:LEU:CD2	2.20	0.54
1:L:437:VAL:CG1	1:L:439:THR:CA	2.86	0.54
1:L:451:TYR:O	1:L:456:GLU:O	2.24	0.54
1:L:482:SER:OG	1:L:483:ASN:N	2.39	0.54
1:L:607:ALA:HB3	1:L:623:ILE:HG12	1.90	0.54
1:M:441:ASN:C	1:M:443:THR:H	2.15	0.54
1:M:458:VAL:HG12	1:M:458:VAL:O	2.06	0.54
1:N:184:GLN:HG3	1:N:292:TYR:O	2.07	0.54
1:N:356:THR:HG1	1:N:569:ASN:CG	2.09	0.54
1:O:453:SER:O	1:O:456:GLU:O	2.24	0.54
1:O:484:THR:OG1	1:O:485:ALA:N	2.39	0.54
1:O:607:ALA:HB3	1:O:623:ILE:HG12	1.90	0.54
1:P:337:VAL:CG1	1:P:338:PRO:HD2	2.37	0.54
1:Q:437:VAL:CG1	1:Q:438:THR:N	2.34	0.54
1:R:337:VAL:CG1	1:R:338:PRO:HD2	2.37	0.54
1:R:439:THR:HG1	1:R:457:ILE:H	1.55	0.54
1:S:416:ILE:HG13	1:S:503:ILE:CD1	2.37	0.54
1:S:435:TYR:HD1	1:S:575:TYR:HH	1.54	0.54
1:S:577:ILE:C	1:S:578:ARG:HG3	2.33	0.54
1:T:216:ASP:HA	1:T:267:THR:HG22	1.89	0.54
1:T:470:GLY:H	1:T:530:LEU:CD1	2.20	0.54
1:T:577:ILE:C	1:T:578:ARG:HG3	2.33	0.54
1:A:275:LEU:CD1	1:L:274:THR:C	2.66	0.54
1:A:437:VAL:CG1	1:A:439:THR:CA	2.86	0.54
1:A:578:ARG:C	1:A:579:SER:OG	2.49	0.54
1:B:184:GLN:HG3	1:B:292:TYR:O	2.07	0.54
1:C:395:ILE:HD11	1:C:523:SER:HB3	1.90	0.54
1:D:352:ASN:HD22	1:D:586:GLN:N	2.05	0.54
1:E:190:LYS:HB3	1:E:652:LEU:HD11	1.88	0.54
1:E:275:LEU:CD1	1:J:275:LEU:HG	2.26	0.54
1:F:275:LEU:CD1	1:R:274:THR:C	2.66	0.54
1:F:297:ASN:C	1:F:297:ASN:ND2	2.59	0.54
1:F:324:LEU:HD22	1:R:271:LEU:CG	2.38	0.54
1:F:348:LEU:HD21	1:N:387:ARG:HH22	1.69	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:352:ASN:HD22	1:G:586:GLN:N	2.05	0.54
1:G:398:LYS:H	1:G:403:LEU:CD2	2.20	0.54
1:G:566:PHE:CD2	1:G:583:PHE:HB3	2.42	0.54
1:H:292:TYR:OH	1:T:172:PHE:CE1	2.60	0.54
1:H:342:ILE:H	1:H:342:ILE:HD12	1.68	0.54
1:H:469:CYS:O	1:H:485:ALA:HB3	2.08	0.54
1:K:199:PRO:O	1:K:202:THR:HG22	2.06	0.54
1:K:237:PRO:CG	1:N:326:LYS:HG3	2.34	0.54
1:K:397:GLN:HG2	1:K:523:SER:CB	2.36	0.54
1:K:439:THR:HG1	1:K:457:ILE:H	1.54	0.54
1:L:441:ASN:C	1:L:443:THR:H	2.15	0.54
1:L:458:VAL:O	1:L:458:VAL:HG12	2.06	0.54
1:L:525:VAL:HG12	1:L:526:THR:N	2.22	0.54
1:L:569:ASN:C	1:L:570:THR:CG2	2.80	0.54
1:M:259:ARG:NH1	1:R:259:ARG:HA	2.16	0.54
1:M:439:THR:HG1	1:M:457:ILE:CG1	1.99	0.54
1:N:222:SER:OG	1:R:229:GLY:N	2.30	0.54
1:N:398:LYS:H	1:N:403:LEU:CD2	2.19	0.54
1:N:525:VAL:HG12	1:N:526:THR:N	2.22	0.54
1:O:199:PRO:O	1:O:202:THR:HG22	2.06	0.54
1:P:216:ASP:HA	1:P:267:THR:HG22	1.90	0.54
1:P:451:TYR:O	1:P:456:GLU:O	2.24	0.54
1:P:525:VAL:HG12	1:P:526:THR:N	2.22	0.54
1:Q:474:ARG:O	1:Q:475:ALA:HB2	2.06	0.54
1:R:469:CYS:O	1:R:485:ALA:HB3	2.08	0.54
1:T:218:ARG:HB2	1:T:265:VAL:CG2	2.34	0.54
1:T:356:THR:OG1	1:T:569:ASN:ND2	2.39	0.54
1:T:395:ILE:HD11	1:T:523:SER:HB3	1.90	0.54
1:A:566:PHE:CD2	1:A:583:PHE:HB3	2.42	0.54
1:B:352:ASN:HD22	1:B:586:GLN:N	2.05	0.54
1:B:437:VAL:CG1	1:B:439:THR:CA	2.86	0.54
1:C:397:GLN:HG2	1:C:523:SER:CB	2.36	0.54
1:C:469:CYS:HA	1:C:530:LEU:HD13	1.89	0.54
1:C:607:ALA:HB3	1:C:623:ILE:HG12	1.90	0.54
1:D:259:ARG:NH1	1:S:259:ARG:HA	2.16	0.54
1:E:292:TYR:OH	1:O:172:PHE:CE1	2.60	0.54
1:E:342:ILE:H	1:E:342:ILE:HD12	1.68	0.54
1:E:437:VAL:CG1	1:E:439:THR:CA	2.86	0.54
1:F:190:LYS:HB3	1:F:652:LEU:HD11	1.88	0.54
1:F:433:GLY:O	1:F:434:ASP:O	2.26	0.54
1:G:451:TYR:CD1	1:G:458:VAL:N	2.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:525:VAL:HG12	1:G:526:THR:N	2.22	0.54
1:H:484:THR:OG1	1:H:485:ALA:N	2.39	0.54
1:I:259:ARG:NH1	1:M:259:ARG:HA	2.16	0.54
1:I:398:LYS:H	1:I:403:LEU:CD2	2.19	0.54
1:J:416:ILE:HG13	1:J:503:ILE:CD1	2.38	0.54
1:L:184:GLN:HG3	1:L:292:TYR:O	2.07	0.54
1:L:401:GLU:OE1	1:L:402:LYS:N	2.38	0.54
1:L:416:ILE:HG13	1:L:503:ILE:CD1	2.38	0.54
1:L:469:CYS:HA	1:L:530:LEU:HD13	1.89	0.54
1:L:641:PHE:C	1:L:643:LEU:H	2.14	0.54
1:M:392:THR:O	1:M:409:THR:HG22	2.08	0.54
1:M:569:ASN:C	1:M:570:THR:CG2	2.80	0.54
1:M:578:ARG:C	1:M:579:SER:OG	2.49	0.54
1:N:337:VAL:CG1	1:N:338:PRO:HD2	2.37	0.54
1:N:401:GLU:OE1	1:N:402:LYS:N	2.38	0.54
1:O:285:THR:HG22	1:O:286:SER:N	2.22	0.54
1:O:458:VAL:O	1:O:458:VAL:HG12	2.06	0.54
1:O:469:CYS:O	1:O:485:ALA:HB3	2.08	0.54
1:P:392:THR:O	1:P:409:THR:HG22	2.08	0.54
1:Q:184:GLN:HG3	1:Q:292:TYR:O	2.07	0.54
1:Q:468:ILE:HD12	1:Q:486:PHE:CZ	2.42	0.54
1:Q:532:TYR:CE2	1:Q:535:ILE:HD12	2.43	0.54
1:R:285:THR:HG22	1:R:286:SER:N	2.22	0.54
1:R:532:TYR:CE2	1:R:535:ILE:HD12	2.43	0.54
1:S:408:ALA:HB1	1:S:411:PHE:HD2	1.71	0.54
1:T:641:PHE:C	1:T:643:LEU:H	2.14	0.54
1:A:251:TYR:CB	1:D:328:PRO:O	2.55	0.54
1:A:271:LEU:CB	1:D:324:LEU:HD11	2.35	0.54
1:A:403:LEU:HD21	1:A:514:ASN:HD21	1.72	0.54
1:A:433:GLY:O	1:A:434:ASP:O	2.26	0.54
1:B:285:THR:HG22	1:B:286:SER:N	2.22	0.54
1:B:566:PHE:CD2	1:B:583:PHE:HB3	2.42	0.54
1:C:577:ILE:C	1:C:578:ARG:HG3	2.33	0.54
1:D:458:VAL:O	1:D:458:VAL:HG12	2.06	0.54
1:D:484:THR:OG1	1:D:485:ALA:N	2.39	0.54
1:D:607:ALA:HB3	1:D:623:ILE:HG12	1.90	0.54
1:E:451:TYR:CD1	1:E:458:VAL:N	2.72	0.54
1:E:469:CYS:HA	1:E:530:LEU:HD13	1.89	0.54
1:E:470:GLY:H	1:E:530:LEU:CD1	2.20	0.54
1:E:484:THR:OG1	1:E:485:ALA:N	2.39	0.54
1:F:222:SER:CB	1:K:230:LYS:HG2	2.30	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:395:ILE:HD11	1:G:524:ASP:N	2.23	0.54
1:H:577:ILE:C	1:H:578:ARG:HG3	2.33	0.54
1:I:285:THR:HG22	1:I:286:SER:N	2.22	0.54
1:I:437:VAL:CG1	1:I:439:THR:CA	2.86	0.54
1:I:469:CYS:HA	1:I:530:LEU:HD13	1.89	0.54
1:I:569:ASN:C	1:I:570:THR:CG2	2.80	0.54
1:J:395:ILE:HD11	1:J:524:ASP:N	2.23	0.54
1:J:525:VAL:HG12	1:J:526:THR:N	2.22	0.54
1:L:337:VAL:CG1	1:L:338:PRO:HD2	2.37	0.54
1:L:433:GLY:O	1:L:434:ASP:O	2.26	0.54
1:N:403:LEU:HD21	1:N:514:ASN:HD21	1.72	0.54
1:P:416:ILE:HG13	1:P:503:ILE:CD1	2.38	0.54
1:P:437:VAL:CG1	1:P:438:THR:N	2.34	0.54
1:P:469:CYS:O	1:P:485:ALA:HB3	2.08	0.54
1:Q:469:CYS:O	1:Q:485:ALA:HB3	2.08	0.54
1:Q:577:ILE:C	1:Q:578:ARG:HG3	2.33	0.54
1:Q:607:ALA:HB3	1:Q:623:ILE:HG12	1.90	0.54
1:S:324:LEU:HD22	1:T:271:LEU:CG	2.38	0.54
1:T:285:THR:HG22	1:T:286:SER:N	2.22	0.54
1:A:392:THR:O	1:A:409:THR:HG22	2.08	0.54
1:A:474:ARG:O	1:A:475:ALA:HB2	2.06	0.54
1:C:285:THR:HG22	1:C:286:SER:N	2.22	0.54
1:C:403:LEU:HD21	1:C:514:ASN:HD21	1.72	0.54
1:C:416:ILE:HG13	1:C:503:ILE:CD1	2.38	0.54
1:C:437:VAL:CG1	1:C:439:THR:CA	2.86	0.54
1:C:578:ARG:C	1:C:579:SER:OG	2.49	0.54
1:D:397:GLN:HG2	1:D:523:SER:CB	2.36	0.54
1:D:578:ARG:C	1:D:579:SER:OG	2.49	0.54
1:E:525:VAL:HG12	1:E:526:THR:N	2.22	0.54
1:E:569:ASN:O	1:E:570:THR:HG22	2.08	0.54
1:F:441:ASN:C	1:F:443:THR:H	2.15	0.54
1:F:532:TYR:CE2	1:F:535:ILE:HD12	2.43	0.54
1:G:218:ARG:HB2	1:G:265:VAL:CG2	2.34	0.54
1:G:437:VAL:CG1	1:G:439:THR:CA	2.86	0.54
1:G:532:TYR:CE2	1:G:535:ILE:HD12	2.43	0.54
1:H:352:ASN:HD22	1:H:586:GLN:N	2.05	0.54
1:H:458:VAL:O	1:H:458:VAL:HG12	2.06	0.54
1:I:433:GLY:O	1:I:434:ASP:O	2.26	0.54
1:I:577:ILE:C	1:I:578:ARG:HG3	2.33	0.54
1:J:216:ASP:HA	1:J:267:THR:HG22	1.89	0.54
1:J:218:ARG:HB2	1:J:265:VAL:CG2	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:403:LEU:HD21	1:J:514:ASN:HD21	1.72	0.54
1:J:578:ARG:C	1:J:579:SER:OG	2.49	0.54
1:K:392:THR:O	1:K:409:THR:HG22	2.08	0.54
1:K:416:ILE:HG13	1:K:503:ILE:CD1	2.38	0.54
1:L:484:THR:OG1	1:L:485:ALA:N	2.39	0.54
1:L:569:ASN:O	1:L:570:THR:HG22	2.08	0.54
1:M:237:PRO:CG	1:Q:326:LYS:HG3	2.34	0.54
1:M:464:LYS:HA	1:M:533:THR:CG2	2.31	0.54
1:N:433:GLY:O	1:N:434:ASP:O	2.26	0.54
1:N:532:TYR:CE2	1:N:535:ILE:HD12	2.43	0.54
1:O:433:GLY:O	1:O:434:ASP:O	2.26	0.54
1:P:395:ILE:HD11	1:P:523:SER:HB3	1.90	0.54
1:P:395:ILE:HD11	1:P:524:ASP:N	2.23	0.54
1:P:468:ILE:HD12	1:P:486:PHE:CZ	2.42	0.54
1:R:395:ILE:HD11	1:R:523:SER:HB3	1.90	0.54
1:R:408:ALA:HB1	1:R:411:PHE:HD2	1.71	0.54
1:R:569:ASN:C	1:R:570:THR:CG2	2.80	0.54
1:S:395:ILE:HD11	1:S:524:ASP:N	2.23	0.54
1:S:469:CYS:HA	1:S:530:LEU:HD13	1.89	0.54
1:T:433:GLY:O	1:T:434:ASP:O	2.26	0.54
1:T:525:VAL:HG12	1:T:526:THR:N	2.22	0.54
1:A:184:GLN:HG3	1:A:292:TYR:O	2.07	0.54
1:A:395:ILE:HD11	1:A:524:ASP:N	2.23	0.54
1:A:525:VAL:HG12	1:A:526:THR:N	2.22	0.54
1:A:569:ASN:C	1:A:570:THR:CG2	2.80	0.54
1:B:397:GLN:HG2	1:B:523:SER:CB	2.36	0.54
1:B:482:SER:OG	1:B:483:ASN:N	2.39	0.54
1:B:590:THR:O	1:B:591:SER:C	2.51	0.54
1:C:482:SER:OG	1:C:483:ASN:N	2.39	0.54
1:D:271:LEU:CG	1:L:324:LEU:HD22	2.38	0.54
1:D:408:ALA:HB1	1:D:411:PHE:HD2	1.71	0.54
1:D:577:ILE:C	1:D:578:ARG:HG3	2.33	0.54
1:E:395:ILE:HD11	1:E:523:SER:HB3	1.90	0.54
1:E:433:GLY:O	1:E:434:ASP:O	2.26	0.54
1:G:172:PHE:CE1	1:N:292:TYR:OH	2.60	0.54
1:G:416:ILE:HG13	1:G:503:ILE:CD1	2.37	0.54
1:G:605:SER:CB	1:G:650:ILE:HG23	2.27	0.54
1:H:337:VAL:CG1	1:H:338:PRO:HD2	2.37	0.54
1:H:395:ILE:HD11	1:H:523:SER:HB3	1.90	0.54
1:H:403:LEU:HD21	1:H:514:ASN:HD21	1.72	0.54
1:H:427:SER:OG	1:H:429:LEU:HD22	1.99	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:468:ILE:HD12	1:H:486:PHE:CZ	2.42	0.54
1:H:590:THR:O	1:H:591:SER:C	2.51	0.54
1:I:555:GLU:C	1:I:556:THR:CG2	2.74	0.54
1:L:354:TYR:HH	1:L:467:TYR:HE2	1.47	0.54
1:L:392:THR:O	1:L:409:THR:HG22	2.08	0.54
1:L:439:THR:OG1	1:L:457:ILE:N	2.41	0.54
1:M:395:ILE:HD11	1:M:523:SER:HB3	1.90	0.54
1:M:433:GLY:O	1:M:434:ASP:O	2.26	0.54
1:M:525:VAL:HG12	1:M:526:THR:N	2.22	0.54
1:M:590:THR:O	1:M:591:SER:C	2.51	0.54
1:N:226:VAL:CG2	1:R:226:VAL:HA	2.26	0.54
1:N:566:PHE:CD2	1:N:583:PHE:HB3	2.42	0.54
1:N:577:ILE:C	1:N:578:ARG:HG3	2.33	0.54
1:O:392:THR:O	1:O:409:THR:HG22	2.08	0.54
1:O:402:LYS:HZ2	1:O:511:PHE:HE2	1.50	0.54
1:O:451:TYR:O	1:O:456:GLU:O	2.24	0.54
1:P:433:GLY:O	1:P:434:ASP:O	2.26	0.54
1:P:577:ILE:C	1:P:578:ARG:HG3	2.33	0.54
1:Q:416:ILE:HG13	1:Q:503:ILE:CD1	2.38	0.54
1:R:482:SER:OG	1:R:483:ASN:N	2.39	0.54
1:S:352:ASN:HD22	1:S:586:GLN:N	2.05	0.54
1:S:392:THR:O	1:S:409:THR:HG22	2.08	0.54
1:S:470:GLY:H	1:S:530:LEU:CD1	2.20	0.54
1:S:569:ASN:O	1:S:570:THR:HG22	2.08	0.54
1:S:569:ASN:C	1:S:570:THR:CG2	2.80	0.54
1:T:392:THR:O	1:T:409:THR:HG22	2.08	0.54
1:T:569:ASN:C	1:T:570:THR:CG2	2.80	0.54
1:A:330:SER:HB2	1:L:237:PRO:HD2	1.89	0.54
1:A:577:ILE:C	1:A:578:ARG:HG3	2.33	0.54
1:B:469:CYS:HA	1:B:530:LEU:HD13	1.89	0.54
1:B:470:GLY:H	1:B:530:LEU:CD1	2.20	0.54
1:B:501:ASN:O	1:B:548:VAL:HG13	2.08	0.54
1:C:395:ILE:HD11	1:C:524:ASP:N	2.23	0.54
1:D:392:THR:O	1:D:409:THR:HG22	2.08	0.54
1:D:464:LYS:HA	1:D:533:THR:CG2	2.31	0.54
1:E:285:THR:HG22	1:E:286:SER:N	2.22	0.54
1:F:398:LYS:H	1:F:403:LEU:CD2	2.19	0.54
1:F:437:VAL:CG1	1:F:439:THR:CA	2.86	0.54
1:H:184:GLN:HG3	1:H:292:TYR:O	2.07	0.54
1:H:641:PHE:N	1:H:642:PRO:HD3	2.23	0.54
1:I:403:LEU:HD21	1:I:514:ASN:HD21	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:501:ASN:O	1:I:548:VAL:HG13	2.08	0.54
1:J:451:TYR:O	1:J:456:GLU:O	2.24	0.54
1:J:474:ARG:N	1:J:524:ASP:HA	2.13	0.54
1:K:395:ILE:HD11	1:K:523:SER:HB3	1.90	0.54
1:K:469:CYS:O	1:K:485:ALA:HB3	2.08	0.54
1:L:451:TYR:CD1	1:L:458:VAL:N	2.72	0.54
1:N:395:ILE:HD11	1:N:524:ASP:N	2.23	0.54
1:O:397:GLN:HG2	1:O:523:SER:CB	2.36	0.54
1:O:569:ASN:O	1:O:570:THR:HG22	2.08	0.54
1:P:397:GLN:HG2	1:P:523:SER:CB	2.36	0.54
1:Q:218:ARG:HB2	1:Q:265:VAL:CG2	2.34	0.54
1:Q:280:SER:OG	1:Q:334:HIS:CE1	2.50	0.54
1:Q:501:ASN:O	1:Q:548:VAL:HG13	2.08	0.54
1:Q:569:ASN:C	1:Q:570:THR:CG2	2.80	0.54
1:S:327:PRO:CD	1:T:237:PRO:CG	2.54	0.54
1:S:458:VAL:HG12	1:S:459:ASN:HD22	1.73	0.54
1:T:190:LYS:HB3	1:T:652:LEU:HD11	1.88	0.54
1:T:437:VAL:CG1	1:T:439:THR:CA	2.86	0.54
1:A:328:PRO:O	1:L:251:TYR:CB	2.55	0.53
1:A:416:ILE:HG13	1:A:503:ILE:CD1	2.38	0.53
1:B:392:THR:O	1:B:409:THR:HG22	2.08	0.53
1:B:416:ILE:HG13	1:B:503:ILE:CD1	2.38	0.53
1:C:501:ASN:O	1:C:548:VAL:HG13	2.09	0.53
1:C:569:ASN:O	1:C:570:THR:HG22	2.08	0.53
1:D:334:HIS:HB3	1:D:600:LEU:CD1	2.39	0.53
1:D:441:ASN:C	1:D:443:THR:H	2.15	0.53
1:E:469:CYS:O	1:E:485:ALA:HB3	2.08	0.53
1:F:216:ASP:HA	1:F:267:THR:HG22	1.90	0.53
1:G:439:THR:HG1	1:G:457:ILE:H	1.56	0.53
1:H:260:GLN:HG2	1:T:261:VAL:HG11	1.91	0.53
1:H:334:HIS:HB3	1:H:600:LEU:CD1	2.38	0.53
1:I:184:GLN:HG3	1:I:292:TYR:O	2.07	0.53
1:I:439:THR:OG1	1:I:457:ILE:N	2.41	0.53
1:I:641:PHE:N	1:I:642:PRO:HD3	2.23	0.53
1:J:392:THR:O	1:J:409:THR:HG22	2.08	0.53
1:J:401:GLU:OE1	1:J:402:LYS:N	2.38	0.53
1:J:532:TYR:CE2	1:J:535:ILE:HD12	2.43	0.53
1:K:334:HIS:HB3	1:K:600:LEU:CD1	2.39	0.53
1:K:403:LEU:HD21	1:K:514:ASN:HD21	1.72	0.53
1:K:408:ALA:HB1	1:K:411:PHE:HD2	1.71	0.53
1:K:484:THR:OG1	1:K:485:ALA:N	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:641:PHE:N	1:L:642:PRO:HD3	2.23	0.53
1:M:221:ILE:HG22	1:M:310:VAL:CG2	2.33	0.53
1:N:216:ASP:HA	1:N:267:THR:HG22	1.90	0.53
1:O:403:LEU:HD21	1:O:514:ASN:HD21	1.72	0.53
1:O:416:ILE:HG13	1:O:503:ILE:CD1	2.38	0.53
1:O:441:ASN:C	1:O:443:THR:H	2.15	0.53
1:O:641:PHE:N	1:O:642:PRO:HD3	2.23	0.53
1:Q:525:VAL:HG12	1:Q:526:THR:N	2.22	0.53
1:R:484:THR:OG1	1:R:485:ALA:N	2.39	0.53
1:S:607:ALA:HB3	1:S:623:ILE:HG12	1.90	0.53
1:T:607:ALA:HB3	1:T:623:ILE:HG12	1.90	0.53
1:A:501:ASN:O	1:A:548:VAL:HG13	2.09	0.53
1:B:395:ILE:HD11	1:B:523:SER:HB3	1.90	0.53
1:B:464:LYS:HA	1:B:533:THR:CG2	2.31	0.53
1:D:260:GLN:HG2	1:S:261:VAL:HG11	1.91	0.53
1:D:450:GLU:O	1:D:451:TYR:CB	2.57	0.53
1:D:469:CYS:O	1:D:485:ALA:HB3	2.08	0.53
1:E:324:LEU:HD22	1:J:271:LEU:CG	2.38	0.53
1:E:401:GLU:OE1	1:E:402:LYS:N	2.38	0.53
1:E:441:ASN:C	1:E:443:THR:H	2.15	0.53
1:E:532:TYR:CE2	1:E:535:ILE:HD12	2.43	0.53
1:E:641:PHE:N	1:E:642:PRO:HD3	2.23	0.53
1:G:433:GLY:O	1:G:434:ASP:O	2.26	0.53
1:H:433:GLY:O	1:H:434:ASP:O	2.26	0.53
1:I:569:ASN:O	1:I:570:THR:HG22	2.08	0.53
1:J:433:GLY:O	1:J:434:ASP:O	2.26	0.53
1:K:577:ILE:C	1:K:578:ARG:HG3	2.33	0.53
1:L:216:ASP:HA	1:L:267:THR:HG22	1.90	0.53
1:L:469:CYS:O	1:L:485:ALA:HB3	2.08	0.53
1:L:612:ILE:HG22	1:L:618:TRP:CB	2.39	0.53
1:M:184:GLN:HG3	1:M:292:TYR:O	2.07	0.53
1:M:398:LYS:H	1:M:403:LEU:CD2	2.20	0.53
1:N:285:THR:HG22	1:N:286:SER:N	2.22	0.53
1:N:392:THR:O	1:N:409:THR:HG22	2.08	0.53
1:N:402:LYS:HZ2	1:N:511:PHE:HE2	1.49	0.53
1:O:464:LYS:HA	1:O:533:THR:CG2	2.31	0.53
1:P:408:ALA:HB1	1:P:411:PHE:HD2	1.72	0.53
1:Q:334:HIS:HB3	1:Q:600:LEU:CD1	2.39	0.53
1:Q:590:THR:O	1:Q:591:SER:C	2.51	0.53
1:R:342:ILE:H	1:R:342:ILE:HD12	1.68	0.53
1:R:416:ILE:HG13	1:R:503:ILE:CD1	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:395:ILE:HD11	1:S:523:SER:HB3	1.90	0.53
1:A:324:LEU:HD22	1:L:271:LEU:CG	2.38	0.53
1:A:469:CYS:O	1:A:485:ALA:HB3	2.08	0.53
1:B:237:PRO:CG	1:R:326:LYS:HG3	2.34	0.53
1:B:260:GLN:HG2	1:Q:261:VAL:HG11	1.90	0.53
1:B:607:ALA:HB3	1:B:623:ILE:HG12	1.90	0.53
1:C:260:GLN:HG2	1:K:261:VAL:HG11	1.90	0.53
1:D:451:TYR:CD1	1:D:458:VAL:N	2.72	0.53
1:E:555:GLU:C	1:E:556:THR:CG2	2.74	0.53
1:E:569:ASN:C	1:E:570:THR:CG2	2.80	0.53
1:E:577:ILE:C	1:E:578:ARG:HG3	2.33	0.53
1:F:261:VAL:HG11	1:K:260:GLN:HG2	1.91	0.53
1:F:334:HIS:HB3	1:F:600:LEU:CD1	2.39	0.53
1:F:395:ILE:HD11	1:F:523:SER:HB3	1.90	0.53
1:F:397:GLN:HG2	1:F:523:SER:CB	2.36	0.53
1:F:569:ASN:C	1:F:570:THR:CG2	2.80	0.53
1:G:395:ILE:HD11	1:G:523:SER:HB3	1.90	0.53
1:G:641:PHE:N	1:G:642:PRO:HD3	2.23	0.53
1:H:285:THR:HG22	1:H:286:SER:N	2.22	0.53
1:H:395:ILE:HD11	1:H:524:ASP:N	2.23	0.53
1:H:450:GLU:O	1:H:451:TYR:CB	2.57	0.53
1:I:441:ASN:C	1:I:443:THR:H	2.15	0.53
1:K:271:LEU:CG	1:N:324:LEU:HD22	2.38	0.53
1:K:612:ILE:HG22	1:K:618:TRP:CB	2.39	0.53
1:L:334:HIS:HB3	1:L:600:LEU:CD1	2.39	0.53
1:L:398:LYS:HB2	1:L:403:LEU:HB3	1.91	0.53
1:L:532:TYR:CE2	1:L:535:ILE:HD12	2.43	0.53
1:M:218:ARG:HB2	1:M:265:VAL:CG2	2.34	0.53
1:M:353:ARG:HH12	1:M:541:GLY:HA3	1.74	0.53
1:M:469:CYS:HA	1:M:530:LEU:HD13	1.89	0.53
1:M:501:ASN:O	1:M:548:VAL:HG13	2.09	0.53
1:O:469:CYS:HA	1:O:530:LEU:HD13	1.89	0.53
1:Q:348:LEU:HD21	1:R:387:ARG:HH22	1.69	0.53
1:Q:433:GLY:O	1:Q:434:ASP:O	2.26	0.53
1:Q:458:VAL:HG12	1:Q:459:ASN:HD22	1.73	0.53
1:Q:601:LEU:CD1	1:Q:602:PRO:HD2	2.39	0.53
1:R:353:ARG:HH12	1:R:541:GLY:HA3	1.74	0.53
1:R:501:ASN:O	1:R:548:VAL:HG13	2.09	0.53
1:S:501:ASN:O	1:S:548:VAL:HG13	2.08	0.53
1:S:578:ARG:C	1:S:579:SER:OG	2.49	0.53
1:S:612:ILE:HG22	1:S:618:TRP:CB	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:334:HIS:HB3	1:A:600:LEU:CD1	2.39	0.53
1:A:358:ILE:HG22	1:A:359:THR:N	2.24	0.53
1:B:271:LEU:CG	1:R:324:LEU:HD22	2.38	0.53
1:C:342:ILE:H	1:C:342:ILE:HD12	1.68	0.53
1:C:433:GLY:O	1:C:434:ASP:O	2.26	0.53
1:D:221:ILE:HG22	1:D:310:VAL:CG2	2.33	0.53
1:D:433:GLY:O	1:D:434:ASP:O	2.26	0.53
1:D:611:ILE:HD11	1:D:621:ILE:HD12	1.91	0.53
1:E:172:PHE:CE1	1:L:292:TYR:OH	2.60	0.53
1:E:353:ARG:HH12	1:E:541:GLY:HA3	1.74	0.53
1:F:325:LEU:HD23	1:N:165:GLU:CG	2.21	0.53
1:F:503:ILE:CG2	1:F:550:ILE:HD12	2.33	0.53
1:F:612:ILE:HG22	1:F:618:TRP:CB	2.39	0.53
1:G:229:GLY:N	1:I:222:SER:OG	2.30	0.53
1:G:353:ARG:HH12	1:G:541:GLY:HA3	1.74	0.53
1:G:470:GLY:H	1:G:530:LEU:CD1	2.20	0.53
1:G:607:ALA:HB3	1:G:623:ILE:HG12	1.90	0.53
1:H:437:VAL:CG1	1:H:439:THR:CA	2.86	0.53
1:H:612:ILE:HG22	1:H:618:TRP:CB	2.39	0.53
1:I:607:ALA:HB3	1:I:623:ILE:HG12	1.90	0.53
1:J:261:VAL:HG11	1:P:260:GLN:HG2	1.91	0.53
1:J:601:LEU:CD1	1:J:602:PRO:HD2	2.39	0.53
1:K:433:GLY:O	1:K:434:ASP:O	2.26	0.53
1:L:577:ILE:C	1:L:578:ARG:HG3	2.33	0.53
1:L:590:THR:O	1:L:591:SER:C	2.51	0.53
1:M:189:PHE:CD1	1:M:289:ILE:HB	2.38	0.53
1:M:437:VAL:CG1	1:M:439:THR:CA	2.86	0.53
1:N:172:PHE:CE1	1:R:292:TYR:OH	2.60	0.53
1:N:353:ARG:HH12	1:N:541:GLY:HA3	1.74	0.53
1:O:408:ALA:HB1	1:O:411:PHE:HD2	1.71	0.53
1:P:641:PHE:N	1:P:642:PRO:HD3	2.23	0.53
1:Q:337:VAL:CG1	1:Q:338:PRO:HD2	2.37	0.53
1:Q:392:THR:O	1:Q:409:THR:HG22	2.08	0.53
1:Q:482:SER:OG	1:Q:483:ASN:N	2.39	0.53
1:Q:612:ILE:HG22	1:Q:618:TRP:CB	2.39	0.53
1:R:433:GLY:O	1:R:434:ASP:O	2.26	0.53
1:R:469:CYS:HA	1:R:530:LEU:HD13	1.89	0.53
1:S:590:THR:O	1:S:591:SER:C	2.51	0.53
1:S:641:PHE:N	1:S:642:PRO:HD3	2.23	0.53
1:T:458:VAL:HG12	1:T:459:ASN:HD22	1.73	0.53
1:A:387:ARG:HH22	1:E:348:LEU:HD21	1.69	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:450:GLU:O	1:A:451:TYR:CB	2.57	0.53
1:A:607:ALA:HB3	1:A:623:ILE:HG12	1.90	0.53
1:B:325:LEU:HB3	1:D:165:GLU:OE1	1.91	0.53
1:D:395:ILE:HD11	1:D:523:SER:HB3	1.90	0.53
1:D:437:VAL:CG1	1:D:439:THR:CA	2.86	0.53
1:E:328:PRO:O	1:J:251:TYR:CB	2.55	0.53
1:E:458:VAL:HG12	1:E:459:ASN:HD22	1.73	0.53
1:E:504:ASN:C	1:E:506:THR:H	2.17	0.53
1:E:590:THR:O	1:E:591:SER:C	2.51	0.53
1:E:601:LEU:CD1	1:E:602:PRO:HD2	2.39	0.53
1:F:458:VAL:HG12	1:F:459:ASN:HD22	1.74	0.53
1:F:501:ASN:O	1:F:548:VAL:HG13	2.08	0.53
1:F:607:ALA:HB3	1:F:623:ILE:HG12	1.90	0.53
1:G:190:LYS:HB3	1:G:652:LEU:HD11	1.88	0.53
1:G:285:THR:HG22	1:G:286:SER:N	2.22	0.53
1:G:392:THR:O	1:G:409:THR:HG22	2.08	0.53
1:G:577:ILE:C	1:G:578:ARG:HG3	2.33	0.53
1:J:437:VAL:CG1	1:J:439:THR:CA	2.86	0.53
1:K:437:VAL:CG1	1:K:439:THR:CA	2.86	0.53
1:K:441:ASN:C	1:K:443:THR:H	2.15	0.53
1:K:451:TYR:CD1	1:K:458:VAL:N	2.72	0.53
1:K:458:VAL:HG12	1:K:459:ASN:HD22	1.74	0.53
1:K:607:ALA:HB3	1:K:623:ILE:HG12	1.90	0.53
1:L:218:ARG:HB2	1:L:265:VAL:CG2	2.34	0.53
1:L:358:ILE:HG22	1:L:359:THR:N	2.24	0.53
1:L:395:ILE:HD11	1:L:523:SER:HB3	1.90	0.53
1:L:611:ILE:HD11	1:L:621:ILE:HD12	1.91	0.53
1:M:577:ILE:C	1:M:578:ARG:HG3	2.33	0.53
1:N:395:ILE:HD11	1:N:523:SER:HB3	1.90	0.53
1:N:437:VAL:CG1	1:N:439:THR:CA	2.86	0.53
1:O:353:ARG:HH12	1:O:541:GLY:HA3	1.74	0.53
1:O:501:ASN:O	1:O:548:VAL:HG13	2.09	0.53
1:O:590:THR:O	1:O:591:SER:C	2.51	0.53
1:P:261:VAL:HG11	1:Q:260:GLN:HG2	1.91	0.53
1:P:285:THR:HG22	1:P:286:SER:N	2.22	0.53
1:P:437:VAL:CG1	1:P:439:THR:CA	2.86	0.53
1:P:450:GLU:O	1:P:451:TYR:CB	2.57	0.53
1:P:469:CYS:HA	1:P:530:LEU:HD13	1.89	0.53
1:Q:395:ILE:HD11	1:Q:524:ASP:N	2.23	0.53
1:Q:451:TYR:H	1:Q:458:VAL:CB	2.16	0.53
1:R:358:ILE:HG22	1:R:359:THR:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:392:THR:O	1:R:409:THR:HG22	2.08	0.53
1:R:395:ILE:HD11	1:R:524:ASP:N	2.23	0.53
1:R:450:GLU:O	1:R:451:TYR:CB	2.57	0.53
1:R:577:ILE:C	1:R:578:ARG:HG3	2.33	0.53
1:S:437:VAL:CG1	1:S:439:THR:CA	2.86	0.53
1:T:569:ASN:O	1:T:570:THR:HG22	2.08	0.53
1:T:611:ILE:HD11	1:T:621:ILE:HD12	1.91	0.53
1:T:641:PHE:N	1:T:642:PRO:HD3	2.23	0.53
1:A:221:ILE:HG22	1:A:310:VAL:CG2	2.33	0.53
1:A:398:LYS:HB2	1:A:403:LEU:HB3	1.91	0.53
1:A:470:GLY:H	1:A:530:LEU:CD1	2.20	0.53
1:C:612:ILE:HG22	1:C:618:TRP:CB	2.39	0.53
1:D:216:ASP:HA	1:D:267:THR:HG22	1.90	0.53
1:D:237:PRO:CG	1:L:326:LYS:HG3	2.34	0.53
1:D:358:ILE:HG22	1:D:359:THR:N	2.24	0.53
1:D:469:CYS:HA	1:D:530:LEU:HD13	1.89	0.53
1:E:330:SER:HB2	1:J:237:PRO:HD2	1.89	0.53
1:E:395:ILE:HD11	1:E:524:ASP:N	2.23	0.53
1:E:397:GLN:HG2	1:E:523:SER:CB	2.36	0.53
1:F:218:ARG:HB2	1:F:265:VAL:CG2	2.34	0.53
1:F:328:PRO:O	1:R:251:TYR:CB	2.55	0.53
1:F:464:LYS:HA	1:F:533:THR:CG2	2.31	0.53
1:F:504:ASN:C	1:F:506:THR:H	2.17	0.53
1:F:525:VAL:HG12	1:F:526:THR:N	2.22	0.53
1:G:358:ILE:HG22	1:G:359:THR:N	2.24	0.53
1:H:353:ARG:HH12	1:H:541:GLY:HA3	1.74	0.53
1:H:458:VAL:HG12	1:H:459:ASN:HD22	1.73	0.53
1:H:504:ASN:C	1:H:506:THR:H	2.17	0.53
1:I:358:ILE:HG22	1:I:359:THR:N	2.24	0.53
1:I:392:THR:O	1:I:409:THR:HG22	2.08	0.53
1:I:395:ILE:HD11	1:I:524:ASP:N	2.23	0.53
1:J:353:ARG:HH12	1:J:541:GLY:HA3	1.74	0.53
1:J:458:VAL:HG12	1:J:459:ASN:HD22	1.74	0.53
1:J:469:CYS:HA	1:J:530:LEU:HD13	1.89	0.53
1:J:611:ILE:HD11	1:J:621:ILE:HD12	1.91	0.53
1:K:450:GLU:O	1:K:451:TYR:CB	2.57	0.53
1:K:504:ASN:C	1:K:506:THR:H	2.17	0.53
1:L:450:GLU:O	1:L:451:TYR:CB	2.57	0.53
1:L:605:SER:CB	1:L:650:ILE:HG23	2.27	0.53
1:M:271:LEU:CG	1:Q:324:LEU:HD22	2.38	0.53
1:M:280:SER:OG	1:M:334:HIS:CE1	2.50	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:395:ILE:HD11	1:M:524:ASP:N	2.23	0.53
1:N:398:LYS:HB2	1:N:403:LEU:HB3	1.91	0.53
1:N:470:GLY:H	1:N:530:LEU:CD1	2.20	0.53
1:P:482:SER:OG	1:P:483:ASN:N	2.39	0.53
1:P:590:THR:O	1:P:591:SER:C	2.51	0.53
1:Q:470:GLY:H	1:Q:530:LEU:CD1	2.20	0.53
1:A:271:LEU:CG	1:D:324:LEU:HD22	2.38	0.53
1:A:448:PRO:C	1:A:449:ARG:HG3	2.34	0.53
1:A:540:ILE:O	1:A:582:VAL:HG13	2.09	0.53
1:B:468:ILE:HD12	1:B:486:PHE:CZ	2.42	0.53
1:B:484:THR:OG1	1:B:485:ALA:N	2.39	0.53
1:B:532:TYR:CE2	1:B:535:ILE:HD12	2.43	0.53
1:C:441:ASN:C	1:C:443:THR:H	2.15	0.53
1:C:590:THR:O	1:C:591:SER:C	2.51	0.53
1:D:341:LEU:CB	1:D:342:ILE:HD12	2.39	0.53
1:D:353:ARG:HH12	1:D:541:GLY:HA3	1.74	0.53
1:D:398:LYS:HB2	1:D:403:LEU:HB3	1.91	0.53
1:D:501:ASN:O	1:D:548:VAL:HG13	2.08	0.53
1:D:504:ASN:C	1:D:506:THR:H	2.17	0.53
1:D:540:ILE:O	1:D:582:VAL:HG13	2.09	0.53
1:E:392:THR:O	1:E:409:THR:HG22	2.08	0.53
1:E:450:GLU:O	1:E:451:TYR:CB	2.57	0.53
1:E:612:ILE:HG22	1:E:618:TRP:CB	2.39	0.53
1:F:324:LEU:HD13	1:R:271:LEU:CB	2.39	0.53
1:F:353:ARG:HH12	1:F:541:GLY:HA3	1.74	0.53
1:F:470:GLY:H	1:F:530:LEU:CD1	2.20	0.53
1:F:641:PHE:N	1:F:642:PRO:HD3	2.23	0.53
1:G:368:PHE:HB3	1:G:544:ARG:HH12	1.74	0.53
1:G:569:ASN:O	1:G:570:THR:HG22	2.08	0.53
1:H:398:LYS:HB2	1:H:403:LEU:HB3	1.91	0.53
1:I:292:TYR:OH	1:M:172:PHE:CE1	2.60	0.53
1:J:358:ILE:HG22	1:J:359:THR:N	2.24	0.53
1:J:398:LYS:H	1:J:403:LEU:CD2	2.20	0.53
1:J:590:THR:O	1:J:591:SER:C	2.51	0.53
1:J:612:ILE:HG22	1:J:618:TRP:CB	2.39	0.53
1:J:641:PHE:N	1:J:642:PRO:HD3	2.23	0.53
1:K:190:LYS:HB2	1:K:652:LEU:CD1	2.24	0.53
1:K:395:ILE:HD11	1:K:524:ASP:N	2.23	0.53
1:L:172:PHE:CE1	1:T:292:TYR:OH	2.60	0.53
1:L:540:ILE:O	1:L:582:VAL:HG13	2.09	0.53
1:M:271:LEU:CB	1:Q:324:LEU:HD13	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:439:THR:OG1	1:M:457:ILE:N	2.41	0.53
1:M:601:LEU:CD1	1:M:602:PRO:HD2	2.39	0.53
1:N:261:VAL:HG11	1:R:260:GLN:HG2	1.90	0.53
1:O:341:LEU:CB	1:O:342:ILE:HD12	2.39	0.53
1:O:395:ILE:HD11	1:O:524:ASP:N	2.23	0.53
1:P:226:VAL:CG2	1:Q:226:VAL:HA	2.26	0.53
1:P:484:THR:OG1	1:P:485:ALA:N	2.39	0.53
1:Q:504:ASN:C	1:Q:506:THR:H	2.17	0.53
1:Q:641:PHE:N	1:Q:642:PRO:HD3	2.23	0.53
1:R:218:ARG:HB2	1:R:265:VAL:CG2	2.34	0.53
1:R:437:VAL:CG1	1:R:439:THR:CA	2.86	0.53
1:S:341:LEU:CB	1:S:342:ILE:HD12	2.39	0.53
1:S:358:ILE:HG22	1:S:359:THR:N	2.24	0.53
1:S:402:LYS:HD3	1:S:511:PHE:CE2	2.34	0.53
1:S:504:ASN:C	1:S:506:THR:H	2.17	0.53
1:T:204:LEU:C	1:T:204:LEU:HD23	2.34	0.53
1:T:358:ILE:HG22	1:T:359:THR:N	2.24	0.53
1:A:187:ILE:HG21	1:A:190:LYS:HG3	1.91	0.53
1:A:218:ARG:HB2	1:A:265:VAL:CG2	2.34	0.53
1:A:395:ILE:HD11	1:A:523:SER:HB3	1.90	0.53
1:A:601:LEU:CD1	1:A:602:PRO:HD2	2.39	0.53
1:B:469:CYS:O	1:B:485:ALA:HB3	2.08	0.53
1:C:209:VAL:HG23	1:C:324:LEU:HB3	1.91	0.53
1:C:450:GLU:O	1:C:451:TYR:CB	2.57	0.53
1:D:204:LEU:HD23	1:D:204:LEU:C	2.34	0.53
1:D:395:ILE:HD11	1:D:524:ASP:N	2.23	0.53
1:D:641:PHE:N	1:D:642:PRO:HD3	2.23	0.53
1:E:398:LYS:HB2	1:E:403:LEU:HB3	1.91	0.53
1:E:402:LYS:HZ2	1:E:511:PHE:HE2	1.53	0.53
1:F:330:SER:HB2	1:R:237:PRO:HD2	1.89	0.53
1:F:398:LYS:HB2	1:F:403:LEU:HB3	1.91	0.53
1:F:469:CYS:O	1:F:485:ALA:HB3	2.08	0.53
1:H:221:ILE:CG2	1:H:310:VAL:HG22	2.32	0.53
1:H:259:ARG:HA	1:O:259:ARG:NH1	2.16	0.53
1:H:261:VAL:HG11	1:O:260:GLN:HG2	1.90	0.53
1:H:439:THR:OG1	1:H:457:ILE:N	2.41	0.53
1:I:368:PHE:HB3	1:I:544:ARG:HH12	1.74	0.53
1:I:458:VAL:HG12	1:I:459:ASN:HD22	1.74	0.53
1:J:190:LYS:HB3	1:J:652:LEU:HD11	1.88	0.53
1:J:569:ASN:C	1:J:570:THR:CG2	2.80	0.53
1:K:341:LEU:CB	1:K:342:ILE:HD12	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:569:ASN:C	1:K:570:THR:CG2	2.80	0.53
1:K:611:ILE:HD11	1:K:621:ILE:HD12	1.91	0.53
1:K:641:PHE:N	1:K:642:PRO:HD3	2.24	0.53
1:L:353:ARG:HH12	1:L:541:GLY:HA3	1.74	0.53
1:L:368:PHE:HB3	1:L:544:ARG:HH12	1.74	0.53
1:L:397:GLN:HG2	1:L:523:SER:CB	2.36	0.53
1:M:187:ILE:HG21	1:M:190:LYS:HG3	1.91	0.53
1:M:601:LEU:HD12	1:M:650:ILE:HD11	1.48	0.53
1:N:469:CYS:O	1:N:485:ALA:HB3	2.08	0.53
1:N:607:ALA:HB3	1:N:623:ILE:HG12	1.90	0.53
1:N:611:ILE:HD11	1:N:621:ILE:HD12	1.91	0.53
1:O:458:VAL:HG12	1:O:459:ASN:HD22	1.73	0.53
1:P:368:PHE:HB3	1:P:544:ARG:HH12	1.74	0.53
1:P:401:GLU:OE1	1:P:402:LYS:N	2.38	0.53
1:P:601:LEU:CD1	1:P:602:PRO:HD2	2.39	0.53
1:Q:437:VAL:CG1	1:Q:439:THR:CA	2.86	0.53
1:Q:448:PRO:C	1:Q:449:ARG:HG3	2.34	0.53
1:R:439:THR:O	1:R:440:SER:OG	2.26	0.53
1:R:607:ALA:HB3	1:R:623:ILE:HG12	1.90	0.53
1:T:353:ARG:HH12	1:T:541:GLY:HA3	1.74	0.53
1:T:395:ILE:HD11	1:T:524:ASP:N	2.23	0.53
1:T:504:ASN:C	1:T:506:THR:H	2.17	0.53
1:A:204:LEU:C	1:A:204:LEU:HD23	2.34	0.53
1:A:353:ARG:HH12	1:A:541:GLY:HA3	1.74	0.53
1:A:590:THR:O	1:A:591:SER:C	2.51	0.53
1:B:251:TYR:CB	1:R:328:PRO:O	2.55	0.53
1:B:334:HIS:HB3	1:B:600:LEU:CD1	2.39	0.53
1:B:341:LEU:CB	1:B:342:ILE:HD12	2.39	0.53
1:B:525:VAL:HG12	1:B:526:THR:N	2.22	0.53
1:C:172:PHE:CE1	1:S:292:TYR:OH	2.60	0.53
1:C:368:PHE:HB3	1:C:544:ARG:HH12	1.74	0.53
1:C:439:THR:OG1	1:C:457:ILE:N	2.41	0.53
1:D:439:THR:O	1:D:440:SER:OG	2.26	0.53
1:F:395:ILE:HD11	1:F:524:ASP:N	2.23	0.53
1:F:540:ILE:O	1:F:582:VAL:HG13	2.09	0.53
1:F:601:LEU:CD1	1:F:602:PRO:HD2	2.39	0.53
1:G:458:VAL:HG12	1:G:459:ASN:HD22	1.73	0.53
1:G:540:ILE:O	1:G:582:VAL:HG13	2.09	0.53
1:I:342:ILE:H	1:I:342:ILE:HD12	1.68	0.53
1:I:353:ARG:HH12	1:I:541:GLY:HA3	1.74	0.53
1:I:504:ASN:C	1:I:506:THR:H	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:341:LEU:CB	1:J:342:ILE:HD12	2.39	0.53
1:K:398:LYS:HB2	1:K:403:LEU:HB3	1.91	0.53
1:K:601:LEU:CD1	1:K:602:PRO:HD2	2.39	0.53
1:L:395:ILE:HD11	1:L:524:ASP:N	2.23	0.53
1:M:334:HIS:HB3	1:M:600:LEU:CD1	2.38	0.53
1:M:469:CYS:O	1:M:485:ALA:HB3	2.08	0.53
1:N:482:SER:OG	1:N:483:ASN:N	2.39	0.53
1:N:612:ILE:HG22	1:N:618:TRP:CB	2.39	0.53
1:S:275:LEU:CD1	1:T:275:LEU:HG	2.26	0.53
1:S:450:GLU:O	1:S:451:TYR:CB	2.57	0.53
1:T:501:ASN:O	1:T:548:VAL:HG13	2.09	0.53
1:A:337:VAL:HG13	1:A:338:PRO:HD2	1.91	0.53
1:A:458:VAL:HG12	1:A:459:ASN:HD22	1.74	0.53
1:B:395:ILE:HD11	1:B:524:ASP:N	2.23	0.53
1:B:458:VAL:HG12	1:B:459:ASN:HD22	1.74	0.53
1:B:540:ILE:O	1:B:582:VAL:HG13	2.09	0.53
1:B:611:ILE:HD11	1:B:621:ILE:HD12	1.91	0.53
1:D:590:THR:O	1:D:591:SER:C	2.51	0.53
1:E:501:ASN:O	1:E:548:VAL:HG13	2.08	0.53
1:F:341:LEU:CB	1:F:342:ILE:HD12	2.39	0.53
1:F:392:THR:O	1:F:409:THR:HG22	2.08	0.53
1:G:341:LEU:CB	1:G:342:ILE:HD12	2.39	0.53
1:G:398:LYS:HB2	1:G:403:LEU:HB3	1.91	0.53
1:H:204:LEU:HD23	1:H:204:LEU:C	2.34	0.53
1:H:341:LEU:CB	1:H:342:ILE:HD12	2.39	0.53
1:H:392:THR:O	1:H:409:THR:HG22	2.08	0.53
1:H:607:ALA:HB3	1:H:623:ILE:HG12	1.90	0.53
1:I:204:LEU:C	1:I:204:LEU:HD23	2.34	0.53
1:J:540:ILE:O	1:J:582:VAL:HG13	2.09	0.53
1:K:271:LEU:CB	1:N:324:LEU:HD13	2.39	0.53
1:K:274:THR:C	1:N:275:LEU:CD1	2.66	0.53
1:K:569:ASN:O	1:K:570:THR:HG22	2.08	0.53
1:L:504:ASN:C	1:L:506:THR:H	2.17	0.53
1:M:237:PRO:HD2	1:Q:330:SER:HB2	1.89	0.53
1:N:458:VAL:HG12	1:N:459:ASN:HD22	1.73	0.53
1:O:437:VAL:CG1	1:O:439:THR:CA	2.86	0.53
1:P:334:HIS:HB3	1:P:600:LEU:CD1	2.39	0.53
1:P:358:ILE:HG22	1:P:359:THR:N	2.24	0.53
1:P:611:ILE:HD11	1:P:621:ILE:HD12	1.91	0.53
1:P:612:ILE:HG22	1:P:618:TRP:CB	2.39	0.53
1:Q:341:LEU:CB	1:Q:342:ILE:HD12	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:398:LYS:HB2	1:Q:403:LEU:HB3	1.91	0.53
1:Q:403:LEU:HD21	1:Q:514:ASN:HD21	1.72	0.53
1:Q:540:ILE:O	1:Q:582:VAL:HG13	2.09	0.53
1:R:367:VAL:HG22	1:R:566:PHE:CE1	2.44	0.53
1:R:641:PHE:N	1:R:642:PRO:HD3	2.23	0.53
1:S:280:SER:OG	1:S:334:HIS:CD2	2.42	0.53
1:S:368:PHE:HB3	1:S:544:ARG:HH12	1.74	0.53
1:S:484:THR:OG1	1:S:485:ALA:N	2.39	0.53
1:T:341:LEU:CB	1:T:342:ILE:HD12	2.39	0.53
1:T:484:THR:OG1	1:T:485:ALA:N	2.39	0.53
1:A:368:PHE:HB3	1:A:544:ARG:HH12	1.74	0.52
1:A:575:TYR:CE1	1:E:480:LYS:HE3	2.44	0.52
1:A:641:PHE:N	1:A:642:PRO:HD3	2.23	0.52
1:B:165:GLU:CB	1:D:325:LEU:CD2	2.82	0.52
1:B:353:ARG:HH12	1:B:541:GLY:HA3	1.74	0.52
1:B:569:ASN:C	1:B:570:THR:CG2	2.80	0.52
1:B:641:PHE:N	1:B:642:PRO:HD3	2.23	0.52
1:C:204:LEU:HD23	1:C:204:LEU:C	2.34	0.52
1:C:337:VAL:HG13	1:C:338:PRO:HD2	1.91	0.52
1:C:504:ASN:C	1:C:506:THR:H	2.17	0.52
1:D:261:VAL:HG11	1:F:260:GLN:HG2	1.91	0.52
1:D:337:VAL:HG13	1:D:338:PRO:HD2	1.91	0.52
1:D:367:VAL:HG22	1:D:566:PHE:CE1	2.44	0.52
1:D:439:THR:HG1	1:D:457:ILE:CG1	2.15	0.52
1:E:260:GLN:HG2	1:O:261:VAL:HG11	1.91	0.52
1:E:341:LEU:CB	1:E:342:ILE:HD12	2.39	0.52
1:E:540:ILE:O	1:E:582:VAL:HG13	2.09	0.52
1:E:611:ILE:HD11	1:E:621:ILE:HD12	1.91	0.52
1:I:341:LEU:CB	1:I:342:ILE:HD12	2.39	0.52
1:I:612:ILE:HG22	1:I:618:TRP:CB	2.39	0.52
1:J:204:LEU:HD23	1:J:204:LEU:C	2.34	0.52
1:K:590:THR:O	1:K:591:SER:C	2.51	0.52
1:L:458:VAL:HG12	1:L:459:ASN:HD22	1.74	0.52
1:M:216:ASP:HA	1:M:267:THR:HG22	1.90	0.52
1:M:611:ILE:HD11	1:M:621:ILE:HD12	1.91	0.52
1:N:367:VAL:HG22	1:N:566:PHE:CE1	2.44	0.52
1:N:439:THR:HG1	1:N:457:ILE:CG1	2.19	0.52
1:N:501:ASN:O	1:N:548:VAL:HG13	2.08	0.52
1:Q:337:VAL:HG13	1:Q:338:PRO:HD2	1.91	0.52
1:Q:341:LEU:HB2	1:Q:342:ILE:HD12	1.92	0.52
1:R:204:LEU:HD23	1:R:204:LEU:C	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:612:ILE:HG22	1:R:618:TRP:CB	2.39	0.52
1:T:367:VAL:HG22	1:T:566:PHE:CE1	2.45	0.52
1:A:259:ARG:HA	1:J:259:ARG:NH1	2.16	0.52
1:A:341:LEU:HB2	1:A:342:ILE:HD12	1.92	0.52
1:A:612:ILE:HG22	1:A:618:TRP:CB	2.39	0.52
1:B:569:ASN:O	1:B:570:THR:HG22	2.08	0.52
1:B:612:ILE:HG22	1:B:618:TRP:CB	2.39	0.52
1:C:540:ILE:O	1:C:582:VAL:HG13	2.09	0.52
1:C:611:ILE:HD11	1:C:621:ILE:HD12	1.91	0.52
1:C:641:PHE:N	1:C:642:PRO:HD3	2.23	0.52
1:F:172:PHE:CE1	1:K:292:TYR:OH	2.60	0.52
1:G:204:LEU:HD23	1:G:204:LEU:C	2.34	0.52
1:G:401:GLU:OE1	1:G:402:LYS:N	2.38	0.52
1:G:504:ASN:C	1:G:506:THR:H	2.17	0.52
1:H:601:LEU:CD1	1:H:602:PRO:HD2	2.39	0.52
1:I:209:VAL:HG23	1:I:324:LEU:HB3	1.91	0.52
1:J:501:ASN:O	1:J:548:VAL:HG13	2.09	0.52
1:K:337:VAL:HG13	1:K:338:PRO:HD2	1.91	0.52
1:K:341:LEU:HB2	1:K:342:ILE:HD12	1.91	0.52
1:K:368:PHE:HB3	1:K:544:ARG:HH12	1.74	0.52
1:K:448:PRO:C	1:K:449:ARG:HG3	2.34	0.52
1:K:540:ILE:O	1:K:582:VAL:HG13	2.09	0.52
1:L:337:VAL:HG13	1:L:338:PRO:HD2	1.91	0.52
1:L:352:ASN:HD22	1:L:586:GLN:N	2.05	0.52
1:L:448:PRO:C	1:L:449:ARG:HG3	2.34	0.52
1:M:204:LEU:C	1:M:204:LEU:HD23	2.34	0.52
1:M:367:VAL:HG22	1:M:566:PHE:CE1	2.45	0.52
1:M:504:ASN:C	1:M:506:THR:H	2.17	0.52
1:N:448:PRO:C	1:N:449:ARG:HG3	2.34	0.52
1:N:469:CYS:HB2	1:N:528:ALA:O	2.10	0.52
1:O:209:VAL:HG23	1:O:324:LEU:HB3	1.91	0.52
1:O:437:VAL:CG1	1:O:438:THR:N	2.34	0.52
1:O:504:ASN:C	1:O:506:THR:H	2.17	0.52
1:O:577:ILE:C	1:O:578:ARG:HG3	2.33	0.52
1:O:611:ILE:HD11	1:O:621:ILE:HD12	1.91	0.52
1:Q:204:LEU:HD23	1:Q:204:LEU:C	2.34	0.52
1:R:221:ILE:CG2	1:R:310:VAL:HG22	2.32	0.52
1:R:469:CYS:HB2	1:R:528:ALA:O	2.10	0.52
1:R:569:ASN:O	1:R:570:THR:HG22	2.08	0.52
1:S:605:SER:CB	1:S:650:ILE:HG23	2.27	0.52
1:T:450:GLU:O	1:T:451:TYR:CB	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:590:THR:O	1:T:591:SER:C	2.51	0.52
1:A:216:ASP:HA	1:A:267:THR:HG22	1.89	0.52
1:A:391:ILE:HD12	1:A:391:ILE:N	2.25	0.52
1:A:469:CYS:HB2	1:A:528:ALA:O	2.10	0.52
1:B:324:LEU:HD22	1:F:271:LEU:CG	2.38	0.52
1:C:358:ILE:HG22	1:C:359:THR:N	2.24	0.52
1:C:458:VAL:HG12	1:C:459:ASN:HD22	1.73	0.52
1:D:439:THR:OG1	1:D:457:ILE:N	2.41	0.52
1:D:601:LEU:CD1	1:D:602:PRO:HD2	2.39	0.52
1:E:341:LEU:HB2	1:E:342:ILE:HD12	1.92	0.52
1:E:367:VAL:HG22	1:E:566:PHE:CE1	2.45	0.52
1:F:341:LEU:HB2	1:F:342:ILE:HD12	1.91	0.52
1:F:448:PRO:C	1:F:449:ARG:HG3	2.34	0.52
1:F:611:ILE:HD11	1:F:621:ILE:HD12	1.91	0.52
1:G:209:VAL:HG23	1:G:324:LEU:HB3	1.91	0.52
1:G:367:VAL:HG22	1:G:566:PHE:CE1	2.44	0.52
1:H:172:PHE:CE1	1:O:292:TYR:OH	2.60	0.52
1:H:341:LEU:HB2	1:H:342:ILE:HD12	1.92	0.52
1:I:395:ILE:HD11	1:I:523:SER:HB3	1.90	0.52
1:J:187:ILE:HG21	1:J:190:LYS:HG3	1.91	0.52
1:J:395:ILE:HD11	1:J:523:SER:HB3	1.90	0.52
1:K:501:ASN:O	1:K:548:VAL:HG13	2.09	0.52
1:L:428:LYS:HG2	1:L:498:GLU:HG2	1.92	0.52
1:M:398:LYS:HB2	1:M:403:LEU:HB3	1.91	0.52
1:M:458:VAL:HG12	1:M:459:ASN:HD22	1.74	0.52
1:M:607:ALA:HB3	1:M:623:ILE:HG12	1.90	0.52
1:M:612:ILE:HG22	1:M:618:TRP:CB	2.39	0.52
1:N:204:LEU:HD23	1:N:204:LEU:C	2.34	0.52
1:N:358:ILE:HG22	1:N:359:THR:N	2.24	0.52
1:N:450:GLU:O	1:N:451:TYR:CB	2.57	0.52
1:N:641:PHE:N	1:N:642:PRO:HD3	2.23	0.52
1:O:341:LEU:HB2	1:O:342:ILE:HD12	1.92	0.52
1:O:451:TYR:CD1	1:O:458:VAL:N	2.72	0.52
1:O:540:ILE:O	1:O:582:VAL:HG13	2.09	0.52
1:Q:187:ILE:HG21	1:Q:190:LYS:HG3	1.91	0.52
1:Q:209:VAL:HG23	1:Q:324:LEU:HB3	1.91	0.52
1:R:439:THR:OG1	1:R:457:ILE:N	2.41	0.52
1:S:433:GLY:O	1:S:434:ASP:O	2.26	0.52
1:T:187:ILE:HG21	1:T:190:LYS:HG3	1.91	0.52
1:B:271:LEU:CB	1:R:324:LEU:HD13	2.39	0.52
1:B:367:VAL:HG22	1:B:566:PHE:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:433:GLY:O	1:B:434:ASP:O	2.26	0.52
1:B:439:THR:OG1	1:B:457:ILE:N	2.41	0.52
1:B:605:SER:CB	1:B:650:ILE:HG23	2.27	0.52
1:C:367:VAL:HG22	1:C:566:PHE:CE1	2.45	0.52
1:C:428:LYS:HG2	1:C:498:GLU:HG2	1.92	0.52
1:D:271:LEU:CB	1:L:324:LEU:HD13	2.39	0.52
1:E:428:LYS:HG2	1:E:498:GLU:HG2	1.92	0.52
1:F:450:GLU:O	1:F:451:TYR:CB	2.57	0.52
1:F:480:LYS:HE3	1:N:575:TYR:CE1	2.44	0.52
1:F:605:SER:CB	1:F:650:ILE:HG23	2.27	0.52
1:G:590:THR:O	1:G:591:SER:C	2.51	0.52
1:G:601:LEU:CD1	1:G:602:PRO:HD2	2.39	0.52
1:G:612:ILE:HG22	1:G:618:TRP:CB	2.39	0.52
1:H:216:ASP:HA	1:H:267:THR:HG22	1.89	0.52
1:H:368:PHE:HB3	1:H:544:ARG:HH12	1.74	0.52
1:H:501:ASN:O	1:H:548:VAL:HG13	2.08	0.52
1:I:218:ARG:HB2	1:I:265:VAL:CG2	2.34	0.52
1:I:469:CYS:HB2	1:I:528:ALA:O	2.10	0.52
1:J:209:VAL:HG23	1:J:324:LEU:HB3	1.91	0.52
1:J:226:VAL:CG2	1:P:226:VAL:HA	2.26	0.52
1:J:368:PHE:HB3	1:J:544:ARG:HH12	1.74	0.52
1:J:385:THR:O	1:J:387:ARG:N	2.41	0.52
1:J:482:SER:OG	1:J:483:ASN:N	2.39	0.52
1:K:204:LEU:HD23	1:K:204:LEU:C	2.34	0.52
1:K:353:ARG:HH12	1:K:541:GLY:HA3	1.74	0.52
1:L:341:LEU:HB2	1:L:342:ILE:HD12	1.91	0.52
1:L:342:ILE:H	1:L:342:ILE:HD12	1.68	0.52
1:L:354:TYR:OH	1:L:467:TYR:CE2	2.58	0.52
1:L:501:ASN:O	1:L:548:VAL:HG13	2.09	0.52
1:L:601:LEU:CD1	1:L:602:PRO:HD2	2.39	0.52
1:M:337:VAL:HG13	1:M:338:PRO:HD2	1.92	0.52
1:M:540:ILE:O	1:M:582:VAL:HG13	2.09	0.52
1:N:341:LEU:HB2	1:N:342:ILE:HD12	1.91	0.52
1:N:341:LEU:CB	1:N:342:ILE:HD12	2.39	0.52
1:O:342:ILE:H	1:O:342:ILE:HD12	1.68	0.52
1:P:341:LEU:CB	1:P:342:ILE:HD12	2.39	0.52
1:Q:216:ASP:HA	1:Q:267:THR:HG22	1.90	0.52
1:Q:391:ILE:HD12	1:Q:391:ILE:N	2.25	0.52
1:R:504:ASN:C	1:R:506:THR:H	2.17	0.52
1:S:204:LEU:HD23	1:S:204:LEU:C	2.34	0.52
1:B:218:ARG:HB2	1:B:265:VAL:CG2	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:334:HIS:HB3	1:C:600:LEU:CD1	2.39	0.52
1:C:341:LEU:HB2	1:C:342:ILE:HD12	1.92	0.52
1:C:341:LEU:CB	1:C:342:ILE:HD12	2.39	0.52
1:D:428:LYS:HG2	1:D:498:GLU:HG2	1.92	0.52
1:D:448:PRO:C	1:D:449:ARG:HG3	2.34	0.52
1:D:469:CYS:HB2	1:D:528:ALA:O	2.10	0.52
1:D:470:GLY:H	1:D:530:LEU:CD1	2.20	0.52
1:D:612:ILE:HG22	1:D:618:TRP:CB	2.39	0.52
1:E:334:HIS:HB3	1:E:600:LEU:CD1	2.39	0.52
1:G:450:GLU:O	1:G:451:TYR:CB	2.57	0.52
1:H:391:ILE:HD12	1:H:391:ILE:N	2.25	0.52
1:H:469:CYS:HB2	1:H:528:ALA:O	2.10	0.52
1:H:540:ILE:O	1:H:582:VAL:HG13	2.09	0.52
1:I:216:ASP:HA	1:I:267:THR:HG22	1.90	0.52
1:J:217:VAL:HG12	1:J:219:PHE:CD2	2.45	0.52
1:K:358:ILE:HG22	1:K:359:THR:N	2.24	0.52
1:K:367:VAL:HG22	1:K:566:PHE:CE1	2.45	0.52
1:K:391:ILE:N	1:K:391:ILE:HD12	2.25	0.52
1:N:337:VAL:HG13	1:N:338:PRO:HD2	1.92	0.52
1:O:334:HIS:HB3	1:O:600:LEU:CD1	2.39	0.52
1:O:469:CYS:HB2	1:O:528:ALA:O	2.10	0.52
1:P:391:ILE:HD12	1:P:391:ILE:N	2.25	0.52
1:P:540:ILE:O	1:P:582:VAL:HG13	2.09	0.52
1:Q:480:LYS:HE3	1:R:575:TYR:CE1	2.44	0.52
1:Q:575:TYR:CE1	1:R:480:LYS:HE3	2.44	0.52
1:R:334:HIS:HB3	1:R:600:LEU:CD1	2.39	0.52
1:R:341:LEU:CB	1:R:342:ILE:HD12	2.39	0.52
1:R:458:VAL:HG12	1:R:459:ASN:HD22	1.74	0.52
1:R:590:THR:O	1:R:591:SER:C	2.51	0.52
1:S:187:ILE:HG21	1:S:190:LYS:HG3	1.91	0.52
1:S:217:VAL:HG12	1:S:219:PHE:CD2	2.45	0.52
1:S:391:ILE:HD12	1:S:391:ILE:N	2.25	0.52
1:T:612:ILE:HG22	1:T:618:TRP:CB	2.39	0.52
1:A:209:VAL:HG23	1:A:324:LEU:HB3	1.91	0.52
1:B:368:PHE:HB3	1:B:544:ARG:HH12	1.74	0.52
1:B:575:TYR:CE1	1:D:480:LYS:HE3	2.44	0.52
1:C:261:VAL:HG11	1:S:260:GLN:HG2	1.91	0.52
1:C:398:LYS:HB2	1:C:403:LEU:HB3	1.91	0.52
1:C:601:LEU:CD1	1:C:602:PRO:HD2	2.39	0.52
1:D:217:VAL:HG12	1:D:219:PHE:CD2	2.45	0.52
1:F:204:LEU:HD23	1:F:204:LEU:C	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:368:PHE:HB3	1:F:544:ARG:HH12	1.74	0.52
1:F:391:ILE:HD12	1:F:391:ILE:N	2.25	0.52
1:F:439:THR:O	1:F:440:SER:OG	2.26	0.52
1:F:575:TYR:CE1	1:N:480:LYS:HE3	2.44	0.52
1:F:590:THR:O	1:F:591:SER:C	2.51	0.52
1:H:217:VAL:HG12	1:H:219:PHE:CD2	2.45	0.52
1:H:280:SER:OG	1:H:334:HIS:CE1	2.50	0.52
1:J:337:VAL:HG13	1:J:338:PRO:HD2	1.92	0.52
1:J:448:PRO:C	1:J:449:ARG:HG3	2.34	0.52
1:K:209:VAL:HG23	1:K:324:LEU:HB3	1.91	0.52
1:L:209:VAL:HG23	1:L:324:LEU:HB3	1.91	0.52
1:L:325:LEU:CD2	1:S:165:GLU:CB	2.82	0.52
1:M:217:VAL:HG12	1:M:219:PHE:CD2	2.45	0.52
1:M:341:LEU:CB	1:M:342:ILE:HD12	2.39	0.52
1:M:358:ILE:HG22	1:M:359:THR:N	2.24	0.52
1:N:368:PHE:HB3	1:N:544:ARG:HH12	1.74	0.52
1:O:217:VAL:HG12	1:O:219:PHE:CD2	2.45	0.52
1:P:458:VAL:HG12	1:P:459:ASN:HD22	1.73	0.52
1:P:501:ASN:O	1:P:548:VAL:HG13	2.09	0.52
1:S:337:VAL:HG13	1:S:338:PRO:HD2	1.92	0.52
1:T:439:THR:OG1	1:T:457:ILE:N	2.41	0.52
1:A:252:PRO:HD2	1:D:328:PRO:CD	2.06	0.52
1:B:358:ILE:HG22	1:B:359:THR:N	2.24	0.52
1:B:428:LYS:HG2	1:B:498:GLU:HG2	1.92	0.52
1:B:448:PRO:C	1:B:449:ARG:HG3	2.34	0.52
1:D:341:LEU:HB2	1:D:342:ILE:HD12	1.92	0.52
1:D:391:ILE:HD12	1:D:391:ILE:N	2.25	0.52
1:E:358:ILE:HG22	1:E:359:THR:N	2.24	0.52
1:E:391:ILE:HD12	1:E:391:ILE:N	2.25	0.52
1:F:401:GLU:OE1	1:F:402:LYS:N	2.38	0.52
1:G:261:VAL:HG11	1:N:260:GLN:HG2	1.90	0.52
1:G:501:ASN:O	1:G:548:VAL:HG13	2.08	0.52
1:G:503:ILE:CG2	1:G:550:ILE:HD12	2.33	0.52
1:G:611:ILE:HD11	1:G:621:ILE:HD12	1.91	0.52
1:I:201:LEU:HD22	1:I:320:PHE:CE2	2.43	0.52
1:I:391:ILE:HD12	1:I:391:ILE:N	2.25	0.52
1:I:439:THR:O	1:I:440:SER:OG	2.26	0.52
1:I:601:LEU:CD1	1:I:602:PRO:HD2	2.39	0.52
1:J:647:TYR:CD1	1:J:647:TYR:N	2.78	0.52
1:L:341:LEU:CB	1:L:342:ILE:HD12	2.39	0.52
1:M:341:LEU:HB2	1:M:342:ILE:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:391:ILE:HD12	1:M:391:ILE:N	2.25	0.52
1:M:416:ILE:CG1	1:M:503:ILE:CD1	2.88	0.52
1:M:641:PHE:N	1:M:642:PRO:HD3	2.23	0.52
1:Q:353:ARG:HH12	1:Q:541:GLY:HA3	1.74	0.52
1:Q:395:ILE:HD11	1:Q:523:SER:HB3	1.90	0.52
1:Q:450:GLU:O	1:Q:451:TYR:CB	2.57	0.52
1:Q:469:CYS:HB2	1:Q:528:ALA:O	2.10	0.52
1:Q:611:ILE:HD11	1:Q:621:ILE:HD12	1.91	0.52
1:R:337:VAL:HG13	1:R:338:PRO:HD2	1.91	0.52
1:R:601:LEU:CD1	1:R:602:PRO:HD2	2.39	0.52
1:S:469:CYS:HB2	1:S:528:ALA:O	2.10	0.52
1:T:334:HIS:HB3	1:T:600:LEU:CD1	2.39	0.52
1:T:352:ASN:HD22	1:T:586:GLN:N	2.05	0.52
1:T:469:CYS:HB2	1:T:528:ALA:O	2.10	0.52
1:T:532:TYR:CE2	1:T:535:ILE:HD12	2.43	0.52
1:A:237:PRO:CG	1:D:326:LYS:HG3	2.34	0.52
1:A:439:THR:OG1	1:A:457:ILE:N	2.41	0.52
1:A:504:ASN:C	1:A:506:THR:H	2.17	0.52
1:B:204:LEU:HD23	1:B:204:LEU:C	2.34	0.52
1:B:469:CYS:HB2	1:B:528:ALA:O	2.10	0.52
1:D:532:TYR:CE2	1:D:535:ILE:HD12	2.43	0.52
1:E:204:LEU:C	1:E:204:LEU:HD23	2.34	0.52
1:E:209:VAL:HG23	1:E:324:LEU:HB3	1.91	0.52
1:E:259:ARG:NH1	1:O:259:ARG:HA	2.16	0.52
1:E:601:LEU:HD12	1:E:650:ILE:HD11	1.48	0.52
1:F:439:THR:HG1	1:F:457:ILE:H	1.54	0.52
1:G:217:VAL:HG12	1:G:219:PHE:CD2	2.45	0.52
1:I:439:THR:HG1	1:I:457:ILE:CG1	2.05	0.52
1:I:611:ILE:HD11	1:I:621:ILE:HD12	1.91	0.52
1:J:398:LYS:HB2	1:J:403:LEU:HB3	1.91	0.52
1:J:416:ILE:CG1	1:J:503:ILE:CD1	2.88	0.52
1:J:439:THR:O	1:J:440:SER:OG	2.26	0.52
1:K:484:THR:HG21	1:K:512:GLN:HA	1.92	0.52
1:K:532:TYR:CE2	1:K:535:ILE:HD12	2.43	0.52
1:L:480:LYS:HE3	1:S:575:TYR:CE1	2.44	0.52
1:M:209:VAL:HG23	1:M:324:LEU:HB3	1.91	0.52
1:M:368:PHE:HB3	1:M:544:ARG:HH12	1.74	0.52
1:M:469:CYS:HB2	1:M:528:ALA:O	2.10	0.52
1:M:503:ILE:CG2	1:M:550:ILE:HD12	2.33	0.52
1:M:569:ASN:O	1:M:570:THR:HG22	2.08	0.52
1:N:439:THR:OG1	1:N:457:ILE:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:569:ASN:O	1:N:570:THR:HG22	2.08	0.52
1:N:601:LEU:CD1	1:N:602:PRO:HD2	2.39	0.52
1:O:216:ASP:HA	1:O:267:THR:HG22	1.89	0.52
1:O:395:ILE:HD11	1:O:523:SER:HB3	1.90	0.52
1:O:416:ILE:CG1	1:O:503:ILE:CD1	2.88	0.52
1:P:337:VAL:HG13	1:P:338:PRO:HD2	1.92	0.52
1:P:367:VAL:HG22	1:P:566:PHE:CE1	2.44	0.52
1:P:428:LYS:HG2	1:P:498:GLU:HG2	1.92	0.52
1:S:353:ARG:HH12	1:S:541:GLY:HA3	1.74	0.52
1:S:540:ILE:O	1:S:582:VAL:HG13	2.09	0.52
1:T:368:PHE:HB3	1:T:544:ARG:HH12	1.74	0.52
1:T:647:TYR:CD1	1:T:647:TYR:N	2.78	0.52
1:A:217:VAL:HG12	1:A:219:PHE:CD2	2.45	0.52
1:A:367:VAL:HG22	1:A:566:PHE:CE1	2.45	0.52
1:B:217:VAL:HG12	1:B:219:PHE:CD2	2.45	0.52
1:B:398:LYS:HB2	1:B:403:LEU:HB3	1.91	0.52
1:D:187:ILE:HG21	1:D:190:LYS:HG3	1.91	0.52
1:D:354:TYR:OH	1:D:467:TYR:CE2	2.58	0.52
1:D:458:VAL:HG12	1:D:459:ASN:HD22	1.73	0.52
1:G:428:LYS:HG2	1:G:498:GLU:HG2	1.92	0.52
1:H:448:PRO:C	1:H:449:ARG:HG3	2.34	0.52
1:H:611:ILE:HD11	1:H:621:ILE:HD12	1.91	0.52
1:N:540:ILE:O	1:N:582:VAL:HG13	2.09	0.52
1:P:204:LEU:C	1:P:204:LEU:HD23	2.34	0.52
1:R:398:LYS:HB2	1:R:403:LEU:HB3	1.91	0.52
1:R:448:PRO:C	1:R:449:ARG:HG3	2.34	0.52
1:T:391:ILE:HD12	1:T:391:ILE:N	2.25	0.52
1:A:271:LEU:HB3	1:D:324:LEU:HD13	1.87	0.52
1:A:503:ILE:CG2	1:A:550:ILE:HD12	2.33	0.52
1:A:611:ILE:HD11	1:A:621:ILE:HD12	1.91	0.52
1:B:299:TYR:O	1:B:300:ALA:O	2.28	0.52
1:B:601:LEU:CD1	1:B:602:PRO:HD2	2.39	0.52
1:C:217:VAL:HG12	1:C:219:PHE:CD2	2.45	0.52
1:C:353:ARG:HH12	1:C:541:GLY:HA3	1.74	0.52
1:C:392:THR:O	1:C:409:THR:HG22	2.08	0.52
1:C:448:PRO:C	1:C:449:ARG:HG3	2.34	0.52
1:E:439:THR:O	1:E:440:SER:OG	2.26	0.52
1:F:299:TYR:O	1:F:300:ALA:O	2.28	0.52
1:F:352:ASN:HD22	1:F:586:GLN:N	2.05	0.52
1:F:428:LYS:HG2	1:F:498:GLU:HG2	1.92	0.52
1:G:469:CYS:HB2	1:G:528:ALA:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:484:THR:HG21	1:G:512:GLN:HA	1.92	0.52
1:H:209:VAL:HG23	1:H:324:LEU:HB3	1.91	0.52
1:H:358:ILE:HG22	1:H:359:THR:N	2.24	0.52
1:H:428:LYS:HG2	1:H:498:GLU:HG2	1.92	0.52
1:H:647:TYR:CD1	1:H:647:TYR:N	2.78	0.52
1:I:367:VAL:HG22	1:I:566:PHE:CE1	2.45	0.52
1:J:334:HIS:HB3	1:J:600:LEU:CD1	2.39	0.52
1:J:367:VAL:HG22	1:J:566:PHE:CE1	2.44	0.52
1:J:504:ASN:C	1:J:506:THR:H	2.17	0.52
1:K:187:ILE:HG21	1:K:190:LYS:HG3	1.91	0.52
1:L:469:CYS:HB2	1:L:528:ALA:O	2.10	0.52
1:O:187:ILE:HG21	1:O:190:LYS:HG3	1.91	0.52
1:O:577:ILE:O	1:O:578:ARG:CG	2.57	0.52
1:P:341:LEU:HB2	1:P:342:ILE:HD12	1.92	0.52
1:P:398:LYS:HB2	1:P:403:LEU:HB3	1.91	0.52
1:R:540:ILE:O	1:R:582:VAL:HG13	2.09	0.52
1:S:367:VAL:HG22	1:S:566:PHE:CE1	2.45	0.52
1:S:398:LYS:HB2	1:S:403:LEU:HB3	1.91	0.52
1:S:532:TYR:CE2	1:S:535:ILE:HD12	2.43	0.52
1:S:598:ASN:C	1:S:598:ASN:ND2	2.68	0.52
1:T:540:ILE:O	1:T:582:VAL:HG13	2.09	0.52
1:A:341:LEU:CB	1:A:342:ILE:HD12	2.39	0.51
1:B:324:LEU:HD13	1:F:271:LEU:CB	2.39	0.51
1:C:299:TYR:O	1:C:300:ALA:O	2.28	0.51
1:D:383:TRP:HA	1:D:413:VAL:HG11	1.93	0.51
1:D:466:MET:O	1:D:532:TYR:HA	2.11	0.51
1:D:601:LEU:HD12	1:D:650:ILE:HD11	1.48	0.51
1:E:261:VAL:HG11	1:L:260:GLN:HG2	1.91	0.51
1:F:187:ILE:HG21	1:F:190:LYS:HG3	1.91	0.51
1:F:460:ASN:CG	1:F:461:THR:H	2.18	0.51
1:G:448:PRO:C	1:G:449:ARG:HG3	2.34	0.51
1:H:451:TYR:H	1:H:458:VAL:CB	2.16	0.51
1:I:187:ILE:HG21	1:I:190:LYS:HG3	1.91	0.51
1:I:260:GLN:HG2	1:M:261:VAL:HG11	1.91	0.51
1:I:416:ILE:CG1	1:I:503:ILE:CD1	2.88	0.51
1:I:590:THR:O	1:I:591:SER:C	2.51	0.51
1:J:299:TYR:O	1:J:300:ALA:O	2.28	0.51
1:J:569:ASN:O	1:J:570:THR:HG22	2.08	0.51
1:K:469:CYS:HB2	1:K:528:ALA:O	2.10	0.51
1:L:261:VAL:HG11	1:T:260:GLN:HG2	1.91	0.51
1:O:391:ILE:HD12	1:O:391:ILE:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:428:LYS:HG2	1:O:498:GLU:HG2	1.92	0.51
1:O:601:LEU:CD1	1:O:602:PRO:HD2	2.39	0.51
1:P:460:ASN:CG	1:P:461:THR:H	2.18	0.51
1:P:466:MET:O	1:P:532:TYR:HA	2.10	0.51
1:P:504:ASN:C	1:P:506:THR:H	2.17	0.51
1:P:647:TYR:CD1	1:P:647:TYR:N	2.78	0.51
1:Q:358:ILE:HG22	1:Q:359:THR:N	2.24	0.51
1:Q:367:VAL:HG22	1:Q:566:PHE:CE1	2.45	0.51
1:R:299:TYR:O	1:R:300:ALA:O	2.28	0.51
1:T:402:LYS:HD3	1:T:511:PHE:CE2	2.34	0.51
1:T:448:PRO:C	1:T:449:ARG:HG3	2.34	0.51
1:T:484:THR:HG21	1:T:512:GLN:HA	1.92	0.51
1:A:271:LEU:CB	1:D:324:LEU:HD13	2.39	0.51
1:A:480:LYS:HE3	1:E:575:TYR:CE1	2.44	0.51
1:C:451:TYR:H	1:C:458:VAL:CB	2.16	0.51
1:C:460:ASN:CG	1:C:461:THR:H	2.19	0.51
1:C:466:MET:O	1:C:532:TYR:HA	2.11	0.51
1:D:271:LEU:HD22	1:L:324:LEU:HD22	1.92	0.51
1:D:385:THR:O	1:D:387:ARG:N	2.41	0.51
1:D:416:ILE:CG1	1:D:503:ILE:CD1	2.88	0.51
1:F:358:ILE:HG22	1:F:359:THR:N	2.24	0.51
1:F:469:CYS:HB2	1:F:528:ALA:O	2.10	0.51
1:G:341:LEU:HB2	1:G:342:ILE:HD12	1.92	0.51
1:G:391:ILE:N	1:G:391:ILE:HD12	2.25	0.51
1:H:367:VAL:HG22	1:H:566:PHE:CE1	2.45	0.51
1:I:398:LYS:HB2	1:I:403:LEU:HB3	1.91	0.51
1:I:448:PRO:C	1:I:449:ARG:HG3	2.34	0.51
1:J:280:SER:OG	1:J:334:HIS:CE1	2.50	0.51
1:L:575:TYR:CE1	1:S:480:LYS:HE3	2.44	0.51
1:N:334:HIS:HB3	1:N:600:LEU:CD1	2.39	0.51
1:N:598:ASN:C	1:N:598:ASN:ND2	2.69	0.51
1:O:367:VAL:HG22	1:O:566:PHE:CE1	2.45	0.51
1:O:398:LYS:HB2	1:O:403:LEU:HB3	1.91	0.51
1:O:466:MET:O	1:O:532:TYR:HA	2.11	0.51
1:P:187:ILE:HG21	1:P:190:LYS:HG3	1.91	0.51
1:Q:217:VAL:HG12	1:Q:219:PHE:CD2	2.45	0.51
1:R:391:ILE:HD12	1:R:391:ILE:N	2.25	0.51
1:R:611:ILE:HD11	1:R:621:ILE:HD12	1.91	0.51
1:S:439:THR:O	1:S:440:SER:OG	2.26	0.51
1:T:337:VAL:HG13	1:T:338:PRO:HD2	1.91	0.51
1:A:237:PRO:CG	1:D:327:PRO:CD	2.55	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:391:ILE:HD12	1:B:391:ILE:N	2.25	0.51
1:B:480:LYS:HE3	1:D:575:TYR:CE1	2.44	0.51
1:B:504:ASN:C	1:B:506:THR:H	2.17	0.51
1:C:427:SER:OG	1:C:429:LEU:HD22	1.99	0.51
1:D:460:ASN:CG	1:D:461:THR:H	2.19	0.51
1:E:337:VAL:HG13	1:E:338:PRO:HD2	1.92	0.51
1:E:466:MET:O	1:E:532:TYR:HA	2.11	0.51
1:F:484:THR:HG21	1:F:512:GLN:HA	1.92	0.51
1:G:260:GLN:HG2	1:I:261:VAL:HG11	1.91	0.51
1:I:540:ILE:O	1:I:582:VAL:HG13	2.09	0.51
1:L:187:ILE:HG21	1:L:190:LYS:HG3	1.91	0.51
1:L:204:LEU:HD23	1:L:204:LEU:C	2.34	0.51
1:M:299:TYR:O	1:M:300:ALA:O	2.28	0.51
1:M:460:ASN:CG	1:M:461:THR:H	2.18	0.51
1:M:577:ILE:O	1:M:578:ARG:CG	2.57	0.51
1:N:187:ILE:HG21	1:N:190:LYS:HG3	1.91	0.51
1:N:428:LYS:HG2	1:N:498:GLU:HG2	1.92	0.51
1:O:204:LEU:HD23	1:O:204:LEU:C	2.34	0.51
1:O:383:TRP:HA	1:O:413:VAL:HG11	1.93	0.51
1:O:460:ASN:CG	1:O:461:THR:H	2.19	0.51
1:O:532:TYR:CE2	1:O:535:ILE:HD12	2.43	0.51
1:P:353:ARG:HH12	1:P:541:GLY:HA3	1.74	0.51
1:P:397:GLN:CB	1:P:520:VAL:O	2.59	0.51
1:P:463:PHE:O	1:P:466:MET:CG	2.59	0.51
1:Q:569:ASN:O	1:Q:570:THR:HG22	2.08	0.51
1:R:187:ILE:HG21	1:R:190:LYS:HG3	1.91	0.51
1:R:460:ASN:CG	1:R:461:THR:H	2.19	0.51
1:S:460:ASN:CG	1:S:461:THR:H	2.19	0.51
1:S:611:ILE:HD11	1:S:621:ILE:HD12	1.91	0.51
1:T:209:VAL:HG23	1:T:324:LEU:HB3	1.91	0.51
1:T:416:ILE:CG1	1:T:503:ILE:CD1	2.88	0.51
1:T:428:LYS:HG2	1:T:498:GLU:HG2	1.92	0.51
1:T:601:LEU:CD1	1:T:602:PRO:HD2	2.39	0.51
1:A:261:VAL:HG11	1:J:260:GLN:HG2	1.91	0.51
1:A:463:PHE:O	1:A:466:MET:CG	2.59	0.51
1:B:474:ARG:CA	1:B:525:VAL:HG23	2.41	0.51
1:C:187:ILE:HG21	1:C:190:LYS:HG3	1.91	0.51
1:C:214:SER:HB2	1:C:268:ILE:O	2.11	0.51
1:D:598:ASN:C	1:D:598:ASN:ND2	2.68	0.51
1:E:217:VAL:HG12	1:E:219:PHE:CD2	2.45	0.51
1:E:448:PRO:C	1:E:449:ARG:HG3	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:217:VAL:HG12	1:F:219:PHE:CD2	2.45	0.51
1:G:187:ILE:HG21	1:G:190:LYS:HG3	1.91	0.51
1:G:337:VAL:HG13	1:G:338:PRO:HD2	1.92	0.51
1:G:466:MET:O	1:G:532:TYR:HA	2.11	0.51
1:G:601:LEU:HD12	1:G:650:ILE:HD11	1.48	0.51
1:H:510:VAL:CG1	1:H:511:PHE:N	2.45	0.51
1:J:463:PHE:O	1:J:466:MET:CG	2.59	0.51
1:J:469:CYS:HB2	1:J:528:ALA:O	2.10	0.51
1:L:348:LEU:HB3	1:S:387:ARG:NH1	2.26	0.51
1:L:439:THR:O	1:L:440:SER:OG	2.26	0.51
1:M:466:MET:O	1:M:532:TYR:HA	2.11	0.51
1:N:474:ARG:CA	1:N:525:VAL:HG23	2.41	0.51
1:N:504:ASN:C	1:N:506:THR:H	2.17	0.51
1:O:598:ASN:C	1:O:598:ASN:ND2	2.69	0.51
1:O:612:ILE:HG22	1:O:618:TRP:CB	2.39	0.51
1:O:647:TYR:CD1	1:O:647:TYR:N	2.78	0.51
1:P:605:SER:CB	1:P:650:ILE:HG23	2.27	0.51
1:R:217:VAL:HG12	1:R:219:PHE:CD2	2.45	0.51
1:T:398:LYS:HB2	1:T:403:LEU:HB3	1.91	0.51
1:A:214:SER:HB2	1:A:268:ILE:O	2.11	0.51
1:A:460:ASN:CG	1:A:461:THR:H	2.18	0.51
1:A:466:MET:O	1:A:532:TYR:HA	2.11	0.51
1:B:171:SER:O	1:B:314:THR:N	2.43	0.51
1:B:337:VAL:HG13	1:B:338:PRO:HD2	1.91	0.51
1:B:387:ARG:HH22	1:D:348:LEU:HD21	1.69	0.51
1:B:484:THR:HG21	1:B:512:GLN:HA	1.93	0.51
1:E:275:LEU:HD11	1:J:275:LEU:N	2.14	0.51
1:E:469:CYS:HB2	1:E:528:ALA:O	2.10	0.51
1:E:605:SER:CB	1:E:650:ILE:HG23	2.27	0.51
1:F:209:VAL:HG23	1:F:324:LEU:HB3	1.91	0.51
1:G:214:SER:HB2	1:G:268:ILE:O	2.11	0.51
1:H:383:TRP:HA	1:H:413:VAL:HG11	1.93	0.51
1:H:402:LYS:HD3	1:H:511:PHE:CE2	2.34	0.51
1:H:466:MET:O	1:H:532:TYR:HA	2.10	0.51
1:H:532:TYR:CE2	1:H:535:ILE:HD12	2.43	0.51
1:I:397:GLN:HG2	1:I:523:SER:CB	2.36	0.51
1:I:397:GLN:CB	1:I:520:VAL:O	2.58	0.51
1:I:460:ASN:CG	1:I:461:THR:H	2.18	0.51
1:J:341:LEU:HB2	1:J:342:ILE:HD12	1.91	0.51
1:J:466:MET:O	1:J:532:TYR:HA	2.11	0.51
1:K:217:VAL:HG12	1:K:219:PHE:CD2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:280:SER:OG	1:K:334:HIS:CD2	2.42	0.51
1:K:466:MET:O	1:K:532:TYR:HA	2.11	0.51
1:L:480:LYS:HE3	1:S:575:TYR:CG	2.46	0.51
1:M:352:ASN:HD22	1:M:586:GLN:N	2.05	0.51
1:M:439:THR:O	1:M:440:SER:OG	2.26	0.51
1:N:217:VAL:HG12	1:N:219:PHE:CD2	2.45	0.51
1:N:466:MET:O	1:N:532:TYR:HA	2.11	0.51
1:N:590:THR:O	1:N:591:SER:C	2.51	0.51
1:O:299:TYR:O	1:O:300:ALA:O	2.28	0.51
1:P:217:VAL:HG12	1:P:219:PHE:CD2	2.45	0.51
1:P:416:ILE:CG1	1:P:503:ILE:CD1	2.88	0.51
1:P:448:PRO:C	1:P:449:ARG:HG3	2.34	0.51
1:P:503:ILE:CG2	1:P:550:ILE:HD12	2.33	0.51
1:Q:416:ILE:CG1	1:Q:503:ILE:CD1	2.88	0.51
1:R:466:MET:O	1:R:532:TYR:HA	2.11	0.51
1:S:198:ASN:O	1:S:202:THR:HB	2.11	0.51
1:S:484:THR:HG21	1:S:512:GLN:HA	1.92	0.51
1:T:217:VAL:HG12	1:T:219:PHE:CD2	2.45	0.51
1:T:341:LEU:HB2	1:T:342:ILE:HD12	1.91	0.51
1:T:383:TRP:HA	1:T:413:VAL:HG11	1.93	0.51
1:A:259:ARG:HH12	1:B:259:ARG:C	2.19	0.51
1:A:598:ASN:C	1:A:598:ASN:ND2	2.69	0.51
1:B:187:ILE:HG21	1:B:190:LYS:HG3	1.91	0.51
1:B:259:ARG:HH12	1:Q:259:ARG:C	2.19	0.51
1:B:460:ASN:CG	1:B:461:THR:H	2.18	0.51
1:B:466:MET:O	1:B:532:TYR:HA	2.10	0.51
1:C:488:THR:OG1	1:C:489:THR:N	2.44	0.51
1:E:187:ILE:HG21	1:E:190:LYS:HG3	1.91	0.51
1:E:324:LEU:HD13	1:J:271:LEU:CB	2.39	0.51
1:E:437:VAL:CG1	1:E:439:THR:CG2	2.89	0.51
1:F:198:ASN:O	1:F:202:THR:HB	2.11	0.51
1:F:367:VAL:HG22	1:F:566:PHE:CE1	2.45	0.51
1:F:569:ASN:O	1:F:570:THR:HG22	2.08	0.51
1:H:187:ILE:HG21	1:H:190:LYS:HG3	1.91	0.51
1:H:416:ILE:CG1	1:H:503:ILE:CD1	2.88	0.51
1:H:437:VAL:CG1	1:H:439:THR:CG2	2.89	0.51
1:I:341:LEU:HB2	1:I:342:ILE:HD12	1.92	0.51
1:I:466:MET:O	1:I:532:TYR:HA	2.11	0.51
1:J:259:ARG:C	1:P:259:ARG:HH12	2.19	0.51
1:J:402:LYS:HD3	1:J:511:PHE:CE2	2.34	0.51
1:J:549:ARG:HD3	1:J:553:LEU:HD13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:593:GLN:O	1:K:594:LEU:C	2.54	0.51
1:K:647:TYR:CD1	1:K:647:TYR:N	2.78	0.51
1:L:387:ARG:NH1	1:S:348:LEU:HB3	2.26	0.51
1:L:416:ILE:CG1	1:L:503:ILE:CD1	2.88	0.51
1:M:448:PRO:C	1:M:449:ARG:HG3	2.34	0.51
1:M:474:ARG:CA	1:M:525:VAL:HG23	2.41	0.51
1:N:391:ILE:HD12	1:N:391:ILE:N	2.25	0.51
1:N:439:THR:O	1:N:440:SER:OG	2.26	0.51
1:N:463:PHE:O	1:N:466:MET:CG	2.59	0.51
1:O:187:ILE:HG22	1:O:188:LEU:N	2.26	0.51
1:O:463:PHE:O	1:O:466:MET:CG	2.59	0.51
1:P:209:VAL:HG23	1:P:324:LEU:HB3	1.91	0.51
1:P:299:TYR:O	1:P:300:ALA:O	2.28	0.51
1:P:436:ALA:HB1	1:P:461:THR:HA	1.93	0.51
1:P:569:ASN:O	1:P:570:THR:HG22	2.08	0.51
1:P:608:VAL:O	1:P:609:TYR:HD1	1.94	0.51
1:Q:463:PHE:O	1:Q:466:MET:CG	2.59	0.51
1:R:209:VAL:HG23	1:R:324:LEU:HB3	1.91	0.51
1:R:368:PHE:HB3	1:R:544:ARG:HH12	1.74	0.51
1:R:602:PRO:C	1:R:604:ASP:H	2.19	0.51
1:S:326:LYS:HG3	1:T:237:PRO:CG	2.34	0.51
1:S:601:LEU:CD1	1:S:602:PRO:HD2	2.39	0.51
1:S:647:TYR:CD1	1:S:647:TYR:N	2.78	0.51
1:A:260:GLN:HG2	1:B:261:VAL:HG11	1.91	0.51
1:A:324:LEU:HD13	1:L:271:LEU:CB	2.39	0.51
1:A:356:THR:HG1	1:A:569:ASN:CG	2.13	0.51
1:A:437:VAL:CG1	1:A:439:THR:CG2	2.89	0.51
1:B:209:VAL:HG23	1:B:324:LEU:HB3	1.91	0.51
1:B:416:ILE:CG1	1:B:503:ILE:CD1	2.88	0.51
1:C:259:ARG:C	1:S:259:ARG:HH12	2.19	0.51
1:C:391:ILE:HD12	1:C:391:ILE:N	2.25	0.51
1:D:549:ARG:HD3	1:D:553:LEU:HD13	1.93	0.51
1:E:368:PHE:HB3	1:E:544:ARG:HH12	1.74	0.51
1:E:484:THR:HG21	1:E:512:GLN:HA	1.92	0.51
1:F:214:SER:HB2	1:F:268:ILE:O	2.11	0.51
1:F:337:VAL:HG13	1:F:338:PRO:HD2	1.91	0.51
1:F:466:MET:O	1:F:532:TYR:HA	2.10	0.51
1:F:482:SER:OG	1:F:483:ASN:N	2.39	0.51
1:H:460:ASN:CG	1:H:461:THR:H	2.18	0.51
1:I:337:VAL:HG13	1:I:338:PRO:HD2	1.91	0.51
1:J:383:TRP:HA	1:J:413:VAL:HG11	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:484:THR:HG21	1:J:512:GLN:HA	1.92	0.51
1:K:598:ASN:C	1:K:598:ASN:ND2	2.69	0.51
1:L:198:ASN:O	1:L:202:THR:HB	2.11	0.51
1:L:217:VAL:HG12	1:L:219:PHE:CD2	2.45	0.51
1:M:428:LYS:HG2	1:M:498:GLU:HG2	1.92	0.51
1:N:209:VAL:HG23	1:N:324:LEU:HB3	1.91	0.51
1:N:608:VAL:O	1:N:609:TYR:HD1	1.94	0.51
1:O:358:ILE:HG22	1:O:359:THR:N	2.24	0.51
1:O:368:PHE:HB3	1:O:544:ARG:HH12	1.74	0.51
1:O:608:VAL:O	1:O:609:TYR:HD1	1.94	0.51
1:P:259:ARG:C	1:Q:259:ARG:HH12	2.19	0.51
1:P:439:THR:OG1	1:P:457:ILE:N	2.41	0.51
1:R:397:GLN:CB	1:R:520:VAL:O	2.59	0.51
1:S:209:VAL:HG23	1:S:324:LEU:HB3	1.91	0.51
1:T:474:ARG:CA	1:T:525:VAL:HG23	2.41	0.51
1:T:602:PRO:C	1:T:604:ASP:H	2.19	0.51
1:A:348:LEU:HB3	1:E:387:ARG:NH1	2.26	0.51
1:A:484:THR:OG1	1:A:485:ALA:N	2.39	0.51
1:B:198:ASN:O	1:B:202:THR:HB	2.11	0.51
1:B:437:VAL:CG1	1:B:439:THR:CG2	2.89	0.51
1:B:598:ASN:C	1:B:598:ASN:ND2	2.69	0.51
1:B:602:PRO:C	1:B:604:ASP:H	2.19	0.51
1:C:397:GLN:CB	1:C:520:VAL:O	2.59	0.51
1:C:436:ALA:HB1	1:C:461:THR:HA	1.93	0.51
1:C:469:CYS:HB2	1:C:528:ALA:O	2.10	0.51
1:D:209:VAL:HG23	1:D:324:LEU:HB3	1.91	0.51
1:D:437:VAL:CG1	1:D:439:THR:CG2	2.89	0.51
1:D:602:PRO:C	1:D:604:ASP:H	2.19	0.51
1:D:608:VAL:O	1:D:609:TYR:HD1	1.94	0.51
1:F:575:TYR:CG	1:N:480:LYS:HE3	2.46	0.51
1:G:532:TYR:HE2	1:G:535:ILE:CD1	2.24	0.51
1:G:602:PRO:C	1:G:604:ASP:H	2.19	0.51
1:H:569:ASN:O	1:H:570:THR:HG22	2.08	0.51
1:H:569:ASN:C	1:H:570:THR:CG2	2.80	0.51
1:H:608:VAL:O	1:H:609:TYR:HD1	1.94	0.51
1:I:450:GLU:O	1:I:451:TYR:CB	2.57	0.51
1:I:484:THR:HG21	1:I:512:GLN:HA	1.92	0.51
1:J:214:SER:HB2	1:J:268:ILE:O	2.11	0.51
1:J:391:ILE:HD12	1:J:391:ILE:N	2.25	0.51
1:J:474:ARG:CA	1:J:525:VAL:HG23	2.41	0.51
1:J:577:ILE:O	1:J:578:ARG:CG	2.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:437:VAL:CG1	1:K:439:THR:CG2	2.89	0.51
1:K:460:ASN:CG	1:K:461:THR:H	2.19	0.51
1:K:488:THR:OG1	1:K:489:THR:N	2.44	0.51
1:K:549:ARG:HD3	1:K:553:LEU:HD13	1.93	0.51
1:L:391:ILE:HD12	1:L:391:ILE:N	2.25	0.51
1:L:463:PHE:O	1:L:466:MET:CG	2.59	0.51
1:L:602:PRO:C	1:L:604:ASP:H	2.19	0.51
1:L:647:TYR:CD1	1:L:647:TYR:N	2.78	0.51
1:M:436:ALA:HB1	1:M:461:THR:HA	1.93	0.51
1:N:259:ARG:C	1:R:259:ARG:HH12	2.19	0.51
1:O:416:ILE:H	1:O:416:ILE:CD1	2.10	0.51
1:P:469:CYS:HB2	1:P:528:ALA:O	2.10	0.51
1:Q:368:PHE:HB3	1:Q:544:ARG:HH12	1.74	0.51
1:R:198:ASN:O	1:R:202:THR:HB	2.11	0.51
1:R:437:VAL:CG1	1:R:439:THR:CG2	2.89	0.51
1:S:334:HIS:HB3	1:S:600:LEU:CD1	2.39	0.51
1:S:383:TRP:HA	1:S:413:VAL:HG11	1.93	0.51
1:S:437:VAL:CG1	1:S:439:THR:CG2	2.89	0.51
1:S:448:PRO:C	1:S:449:ARG:HG3	2.34	0.51
1:T:466:MET:O	1:T:532:TYR:HA	2.11	0.51
1:A:480:LYS:HE3	1:E:575:TYR:CG	2.46	0.51
1:A:569:ASN:O	1:A:570:THR:HG22	2.08	0.51
1:A:608:VAL:O	1:A:609:TYR:HD1	1.94	0.51
1:B:383:TRP:HA	1:B:413:VAL:HG11	1.93	0.51
1:C:383:TRP:HA	1:C:413:VAL:HG11	1.93	0.51
1:C:474:ARG:CA	1:C:525:VAL:HG23	2.41	0.51
1:D:368:PHE:HB3	1:D:544:ARG:HH12	1.74	0.51
1:E:198:ASN:O	1:E:202:THR:HB	2.11	0.51
1:G:198:ASN:O	1:G:202:THR:HB	2.11	0.51
1:G:334:HIS:HB3	1:G:600:LEU:CD1	2.39	0.51
1:G:647:TYR:CD1	1:G:647:TYR:N	2.78	0.51
1:H:214:SER:HB2	1:H:268:ILE:O	2.11	0.51
1:H:463:PHE:O	1:H:466:MET:CG	2.59	0.51
1:H:602:PRO:C	1:H:604:ASP:H	2.19	0.51
1:I:488:THR:OG1	1:I:489:THR:N	2.44	0.51
1:I:602:PRO:C	1:I:604:ASP:H	2.19	0.51
1:J:420:TRP:CG	1:J:421:PRO:HD2	2.46	0.51
1:J:460:ASN:CG	1:J:461:THR:H	2.19	0.51
1:J:484:THR:OG1	1:J:485:ALA:N	2.39	0.51
1:K:299:TYR:O	1:K:300:ALA:O	2.28	0.51
1:K:463:PHE:O	1:K:466:MET:CG	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:214:SER:HB2	1:L:268:ILE:O	2.11	0.51
1:L:299:TYR:O	1:L:300:ALA:O	2.28	0.51
1:L:460:ASN:CG	1:L:461:THR:H	2.18	0.51
1:M:260:GLN:HG2	1:R:261:VAL:HG11	1.91	0.51
1:M:271:LEU:HB3	1:Q:324:LEU:HD13	1.88	0.51
1:M:383:TRP:HA	1:M:413:VAL:HG11	1.93	0.51
1:M:397:GLN:CB	1:M:520:VAL:O	2.59	0.51
1:N:383:TRP:HA	1:N:413:VAL:HG11	1.93	0.51
1:N:420:TRP:CG	1:N:421:PRO:HD2	2.46	0.51
1:O:337:VAL:HG13	1:O:338:PRO:HD2	1.91	0.51
1:O:437:VAL:CG1	1:O:439:THR:CG2	2.89	0.51
1:O:450:GLU:O	1:O:451:TYR:CB	2.57	0.51
1:P:198:ASN:O	1:P:202:THR:HB	2.11	0.51
1:P:451:TYR:CD1	1:P:458:VAL:N	2.72	0.51
1:P:474:ARG:CA	1:P:525:VAL:HG23	2.41	0.51
1:P:484:THR:HG21	1:P:512:GLN:HA	1.92	0.51
1:P:532:TYR:CE2	1:P:535:ILE:HD12	2.43	0.51
1:P:602:PRO:C	1:P:604:ASP:H	2.19	0.51
1:Q:299:TYR:O	1:Q:300:ALA:O	2.28	0.51
1:Q:348:LEU:HB3	1:R:387:ARG:NH1	2.26	0.51
1:Q:436:ALA:HB1	1:Q:461:THR:HA	1.93	0.51
1:Q:532:TYR:HE2	1:Q:535:ILE:CD1	2.24	0.51
1:R:187:ILE:HG22	1:R:188:LEU:N	2.26	0.51
1:R:214:SER:HB2	1:R:268:ILE:O	2.11	0.51
1:R:463:PHE:O	1:R:466:MET:CG	2.59	0.51
1:R:484:THR:HG21	1:R:512:GLN:HA	1.92	0.51
1:R:593:GLN:O	1:R:594:LEU:C	2.54	0.51
1:S:324:LEU:HD22	1:T:271:LEU:HD22	1.92	0.51
1:S:324:LEU:HD13	1:T:271:LEU:CB	2.39	0.51
1:T:463:PHE:O	1:T:466:MET:CG	2.59	0.51
1:A:259:ARG:C	1:J:259:ARG:HH12	2.19	0.51
1:A:276:TYR:CE1	1:L:273:SER:O	2.61	0.51
1:B:348:LEU:HB3	1:D:387:ARG:NH1	2.26	0.51
1:B:575:TYR:CG	1:D:480:LYS:HE3	2.46	0.51
1:B:593:GLN:O	1:B:594:LEU:C	2.54	0.51
1:B:601:LEU:CD1	1:B:650:ILE:CG1	2.62	0.51
1:C:484:THR:OG1	1:C:485:ALA:N	2.39	0.51
1:D:420:TRP:CG	1:D:421:PRO:HD2	2.46	0.51
1:D:463:PHE:O	1:D:466:MET:CG	2.59	0.51
1:E:352:ASN:HD22	1:E:586:GLN:N	2.05	0.51
1:E:436:ALA:HB1	1:E:461:THR:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:348:LEU:HB3	1:N:387:ARG:NH1	2.26	0.51
1:F:385:THR:O	1:F:387:ARG:N	2.41	0.51
1:F:474:ARG:CA	1:F:525:VAL:HG23	2.41	0.51
1:G:259:ARG:HH12	1:I:259:ARG:C	2.19	0.51
1:G:259:ARG:HA	1:N:259:ARG:NH1	2.16	0.51
1:G:259:ARG:C	1:N:259:ARG:HH12	2.19	0.51
1:G:420:TRP:CG	1:G:421:PRO:HD2	2.46	0.51
1:G:593:GLN:O	1:G:594:LEU:C	2.54	0.51
1:H:337:VAL:HG13	1:H:338:PRO:HD2	1.91	0.51
1:H:439:THR:O	1:H:440:SER:OG	2.26	0.51
1:I:226:VAL:HA	1:M:226:VAL:CG2	2.27	0.51
1:I:299:TYR:O	1:I:300:ALA:O	2.28	0.51
1:K:214:SER:HB2	1:K:268:ILE:O	2.11	0.51
1:K:271:LEU:CD2	1:N:324:LEU:HD21	2.41	0.51
1:K:420:TRP:CG	1:K:421:PRO:HD2	2.46	0.51
1:K:428:LYS:HG2	1:K:498:GLU:HG2	1.92	0.51
1:L:420:TRP:CG	1:L:421:PRO:HD2	2.46	0.51
1:L:436:ALA:HB1	1:L:461:THR:HA	1.93	0.51
1:M:598:ASN:C	1:M:598:ASN:ND2	2.69	0.51
1:N:171:SER:O	1:N:314:THR:N	2.43	0.51
1:N:214:SER:HB2	1:N:268:ILE:O	2.11	0.51
1:N:299:TYR:O	1:N:300:ALA:O	2.28	0.51
1:N:602:PRO:C	1:N:604:ASP:H	2.19	0.51
1:O:198:ASN:O	1:O:202:THR:HB	2.11	0.51
1:O:436:ALA:HB1	1:O:461:THR:HA	1.93	0.51
1:Q:214:SER:HB2	1:Q:268:ILE:O	2.11	0.51
1:Q:549:ARG:HD3	1:Q:553:LEU:HD13	1.93	0.51
1:R:474:ARG:CA	1:R:525:VAL:HG23	2.41	0.51
1:S:171:SER:O	1:S:314:THR:N	2.43	0.51
1:S:474:ARG:CA	1:S:525:VAL:HG23	2.41	0.51
1:T:198:ASN:O	1:T:202:THR:HB	2.11	0.51
1:T:397:GLN:CB	1:T:520:VAL:O	2.59	0.51
1:A:293:ASN:O	1:A:294:ASP:O	2.30	0.50
1:A:416:ILE:CG1	1:A:503:ILE:CD1	2.88	0.50
1:B:387:ARG:NH1	1:D:348:LEU:HB3	2.26	0.50
1:B:463:PHE:O	1:B:466:MET:CG	2.59	0.50
1:B:633:VAL:HG12	1:B:635:ASN:H	1.77	0.50
1:C:549:ARG:HD3	1:C:553:LEU:HD13	1.93	0.50
1:C:608:VAL:O	1:C:609:TYR:HD1	1.94	0.50
1:D:196:LEU:HA	1:D:202:THR:OG1	2.12	0.50
1:E:463:PHE:O	1:E:466:MET:CG	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:436:ALA:HB1	1:F:461:THR:HA	1.93	0.50
1:F:488:THR:OG1	1:F:489:THR:N	2.44	0.50
1:F:598:ASN:C	1:F:598:ASN:ND2	2.69	0.50
1:F:602:PRO:C	1:F:604:ASP:H	2.19	0.50
1:G:436:ALA:HB1	1:G:461:THR:HA	1.93	0.50
1:G:463:PHE:O	1:G:466:MET:CG	2.59	0.50
1:I:293:ASN:O	1:I:294:ASP:O	2.29	0.50
1:I:608:VAL:O	1:I:609:TYR:HD1	1.94	0.50
1:J:608:VAL:O	1:J:609:TYR:HD1	1.94	0.50
1:L:383:TRP:HA	1:L:413:VAL:HG11	1.93	0.50
1:L:466:MET:O	1:L:532:TYR:HA	2.11	0.50
1:L:484:THR:HG21	1:L:512:GLN:HA	1.92	0.50
1:L:488:THR:OG1	1:L:489:THR:N	2.44	0.50
1:M:187:ILE:HG22	1:M:188:LEU:N	2.26	0.50
1:M:532:TYR:CE2	1:M:535:ILE:HD12	2.43	0.50
1:M:549:ARG:HD3	1:M:553:LEU:HD13	1.93	0.50
1:M:555:GLU:C	1:M:555:GLU:CD	2.80	0.50
1:N:352:ASN:HD22	1:N:586:GLN:N	2.05	0.50
1:N:437:VAL:CG1	1:N:439:THR:CG2	2.89	0.50
1:N:532:TYR:HE2	1:N:535:ILE:CD1	2.24	0.50
1:O:602:PRO:C	1:O:604:ASP:H	2.19	0.50
1:Q:187:ILE:HG22	1:Q:188:LEU:N	2.26	0.50
1:Q:460:ASN:CG	1:Q:461:THR:H	2.19	0.50
1:Q:602:PRO:C	1:Q:604:ASP:H	2.19	0.50
1:R:428:LYS:HG2	1:R:498:GLU:HG2	1.92	0.50
1:R:555:GLU:C	1:R:555:GLU:CD	2.80	0.50
1:S:293:ASN:O	1:S:294:ASP:O	2.30	0.50
1:S:633:VAL:HG12	1:S:635:ASN:H	1.77	0.50
1:T:420:TRP:CG	1:T:421:PRO:HD2	2.47	0.50
1:A:201:LEU:HD22	1:A:320:PHE:CE2	2.43	0.50
1:A:271:LEU:CD2	1:D:324:LEU:HD21	2.42	0.50
1:B:397:GLN:CB	1:B:520:VAL:O	2.59	0.50
1:C:198:ASN:O	1:C:202:THR:HB	2.11	0.50
1:D:214:SER:HB2	1:D:268:ILE:O	2.11	0.50
1:E:214:SER:HB2	1:E:268:ILE:O	2.11	0.50
1:E:385:THR:O	1:E:387:ARG:N	2.41	0.50
1:E:397:GLN:CB	1:E:520:VAL:O	2.59	0.50
1:E:435:TYR:HD1	1:E:575:TYR:HH	1.60	0.50
1:E:647:TYR:CD1	1:E:647:TYR:N	2.78	0.50
1:F:293:ASN:O	1:F:294:ASP:O	2.30	0.50
1:F:420:TRP:CG	1:F:421:PRO:HD2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:463:PHE:O	1:F:466:MET:CG	2.59	0.50
1:G:293:ASN:O	1:G:294:ASP:O	2.30	0.50
1:G:608:VAL:O	1:G:609:TYR:HD1	1.94	0.50
1:H:484:THR:HG21	1:H:512:GLN:HA	1.93	0.50
1:I:198:ASN:O	1:I:202:THR:HB	2.11	0.50
1:I:428:LYS:HG2	1:I:498:GLU:HG2	1.92	0.50
1:I:555:GLU:C	1:I:555:GLU:CD	2.80	0.50
1:J:436:ALA:HB1	1:J:461:THR:HA	1.93	0.50
1:K:601:LEU:CD1	1:K:650:ILE:CG1	2.62	0.50
1:L:293:ASN:O	1:L:294:ASP:O	2.30	0.50
1:L:608:VAL:O	1:L:609:TYR:HD1	1.94	0.50
1:M:198:ASN:O	1:M:202:THR:HB	2.11	0.50
1:M:593:GLN:O	1:M:594:LEU:C	2.54	0.50
1:N:187:ILE:HG22	1:N:188:LEU:N	2.26	0.50
1:N:436:ALA:HB1	1:N:461:THR:HA	1.93	0.50
1:O:605:SER:CB	1:O:650:ILE:HG23	2.27	0.50
1:P:297:ASN:C	1:P:297:ASN:ND2	2.59	0.50
1:P:420:TRP:CG	1:P:421:PRO:HD2	2.46	0.50
1:P:633:VAL:HG12	1:P:635:ASN:H	1.77	0.50
1:Q:352:ASN:HD22	1:Q:586:GLN:N	2.05	0.50
1:R:293:ASN:O	1:R:294:ASP:O	2.29	0.50
1:R:383:TRP:HA	1:R:413:VAL:HG11	1.93	0.50
1:S:428:LYS:HG2	1:S:498:GLU:HG2	1.92	0.50
1:S:436:ALA:HB1	1:S:461:THR:HA	1.93	0.50
1:S:466:MET:O	1:S:532:TYR:HA	2.10	0.50
1:S:602:PRO:C	1:S:604:ASP:H	2.19	0.50
1:T:436:ALA:HB1	1:T:461:THR:HA	1.93	0.50
1:T:532:TYR:HE2	1:T:535:ILE:CD1	2.24	0.50
1:A:420:TRP:CG	1:A:421:PRO:HD2	2.46	0.50
1:A:428:LYS:HG2	1:A:498:GLU:HG2	1.92	0.50
1:B:214:SER:HB2	1:B:268:ILE:O	2.11	0.50
1:B:293:ASN:O	1:B:294:ASP:O	2.30	0.50
1:C:647:TYR:CD1	1:C:647:TYR:N	2.78	0.50
1:D:259:ARG:HH12	1:S:259:ARG:C	2.19	0.50
1:D:299:TYR:O	1:D:300:ALA:O	2.28	0.50
1:D:569:ASN:O	1:D:570:THR:HG22	2.08	0.50
1:E:196:LEU:HA	1:E:202:THR:OG1	2.12	0.50
1:E:299:TYR:O	1:E:300:ALA:O	2.28	0.50
1:E:326:LYS:HG3	1:J:237:PRO:CG	2.34	0.50
1:E:633:VAL:HG12	1:E:635:ASN:H	1.77	0.50
1:F:387:ARG:NH1	1:N:348:LEU:HB3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:439:THR:OG1	1:F:457:ILE:N	2.41	0.50
1:H:187:ILE:HG22	1:H:188:LEU:N	2.26	0.50
1:H:221:ILE:HD11	1:H:258:ALA:C	2.37	0.50
1:H:436:ALA:HB1	1:H:461:THR:HA	1.93	0.50
1:I:196:LEU:HA	1:I:202:THR:OG1	2.12	0.50
1:I:217:VAL:HG12	1:I:219:PHE:CD2	2.45	0.50
1:I:383:TRP:HA	1:I:413:VAL:HG11	1.93	0.50
1:I:420:TRP:CG	1:I:421:PRO:HD2	2.46	0.50
1:I:577:ILE:O	1:I:578:ARG:CG	2.57	0.50
1:J:293:ASN:O	1:J:294:ASP:O	2.30	0.50
1:J:593:GLN:O	1:J:594:LEU:C	2.54	0.50
1:J:598:ASN:C	1:J:598:ASN:ND2	2.69	0.50
1:K:602:PRO:C	1:K:604:ASP:H	2.19	0.50
1:L:201:LEU:HD22	1:L:320:PHE:CE2	2.43	0.50
1:L:259:ARG:C	1:T:259:ARG:HH12	2.19	0.50
1:L:356:THR:HG1	1:L:569:ASN:CG	2.17	0.50
1:L:367:VAL:HG22	1:L:566:PHE:CE1	2.44	0.50
1:L:397:GLN:CB	1:L:520:VAL:O	2.59	0.50
1:L:437:VAL:CG1	1:L:439:THR:CG2	2.89	0.50
1:L:532:TYR:HE2	1:L:535:ILE:CD1	2.24	0.50
1:M:402:LYS:HD3	1:M:511:PHE:CE2	2.34	0.50
1:N:484:THR:HG21	1:N:512:GLN:HA	1.92	0.50
1:N:605:SER:CB	1:N:650:ILE:HG23	2.27	0.50
1:N:647:TYR:CD1	1:N:647:TYR:N	2.78	0.50
1:O:214:SER:HB2	1:O:268:ILE:O	2.11	0.50
1:O:474:ARG:CA	1:O:525:VAL:HG23	2.41	0.50
1:O:484:THR:HG21	1:O:512:GLN:HA	1.92	0.50
1:P:598:ASN:C	1:P:598:ASN:ND2	2.69	0.50
1:Q:325:LEU:CD2	1:R:165:GLU:CB	2.82	0.50
1:Q:383:TRP:HA	1:Q:413:VAL:HG11	1.93	0.50
1:Q:387:ARG:NH1	1:R:348:LEU:HB3	2.26	0.50
1:Q:439:THR:HG23	1:Q:457:ILE:HG12	1.94	0.50
1:R:196:LEU:HA	1:R:202:THR:OG1	2.12	0.50
1:R:393:VAL:CG1	1:R:394:THR:N	2.75	0.50
1:R:420:TRP:CG	1:R:421:PRO:HD2	2.46	0.50
1:S:393:VAL:CG1	1:S:394:THR:N	2.75	0.50
1:S:420:TRP:CG	1:S:421:PRO:HD2	2.46	0.50
1:S:463:PHE:O	1:S:466:MET:CG	2.59	0.50
1:A:484:THR:HG21	1:A:512:GLN:HA	1.92	0.50
1:A:593:GLN:O	1:A:594:LEU:C	2.54	0.50
1:A:647:TYR:CD1	1:A:647:TYR:N	2.78	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:420:TRP:CG	1:C:421:PRO:HD2	2.46	0.50
1:C:602:PRO:C	1:C:604:ASP:H	2.19	0.50
1:D:198:ASN:O	1:D:202:THR:HB	2.11	0.50
1:D:271:LEU:CD2	1:L:324:LEU:HD21	2.42	0.50
1:D:393:VAL:CG1	1:D:394:THR:N	2.75	0.50
1:E:532:TYR:HE2	1:E:535:ILE:CD1	2.24	0.50
1:E:555:GLU:C	1:E:555:GLU:CD	2.80	0.50
1:E:598:ASN:C	1:E:598:ASN:ND2	2.68	0.50
1:G:196:LEU:HA	1:G:202:THR:OG1	2.12	0.50
1:G:221:ILE:HD11	1:G:258:ALA:C	2.37	0.50
1:G:383:TRP:HA	1:G:413:VAL:HG11	1.93	0.50
1:G:437:VAL:CG1	1:G:439:THR:CG2	2.89	0.50
1:G:474:ARG:CA	1:G:525:VAL:HG23	2.41	0.50
1:G:555:GLU:C	1:G:555:GLU:CD	2.80	0.50
1:G:606:PHE:O	1:G:650:ILE:HG12	2.12	0.50
1:H:196:LEU:HA	1:H:202:THR:OG1	2.12	0.50
1:H:198:ASN:O	1:H:202:THR:HB	2.11	0.50
1:H:259:ARG:C	1:O:259:ARG:HH12	2.19	0.50
1:H:299:TYR:O	1:H:300:ALA:O	2.28	0.50
1:H:397:GLN:CB	1:H:520:VAL:O	2.59	0.50
1:H:420:TRP:CG	1:H:421:PRO:HD2	2.46	0.50
1:H:549:ARG:HD3	1:H:553:LEU:HD13	1.93	0.50
1:J:402:LYS:HD2	1:J:511:PHE:CE2	2.47	0.50
1:J:437:VAL:CG1	1:J:439:THR:CG2	2.89	0.50
1:J:488:THR:OG1	1:J:489:THR:N	2.44	0.50
1:J:602:PRO:C	1:J:604:ASP:H	2.19	0.50
1:K:397:GLN:CB	1:K:520:VAL:O	2.59	0.50
1:K:532:TYR:HE2	1:K:535:ILE:CD1	2.24	0.50
1:K:555:GLU:C	1:K:555:GLU:CD	2.80	0.50
1:L:575:TYR:CG	1:S:480:LYS:HE3	2.46	0.50
1:N:555:GLU:C	1:N:555:GLU:CD	2.79	0.50
1:O:393:VAL:HG13	1:O:407:ILE:O	2.12	0.50
1:O:420:TRP:CG	1:O:421:PRO:HD2	2.46	0.50
1:P:214:SER:HB2	1:P:268:ILE:O	2.11	0.50
1:P:221:ILE:HD11	1:P:258:ALA:C	2.37	0.50
1:P:293:ASN:O	1:P:294:ASP:O	2.30	0.50
1:P:593:GLN:O	1:P:594:LEU:C	2.54	0.50
1:Q:221:ILE:HD11	1:Q:258:ALA:C	2.37	0.50
1:R:221:ILE:HD11	1:R:258:ALA:C	2.37	0.50
1:R:598:ASN:C	1:R:598:ASN:ND2	2.69	0.50
1:R:608:VAL:O	1:R:609:TYR:HD1	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:324:LEU:HD21	1:T:271:LEU:CD2	2.41	0.50
1:S:549:ARG:HD3	1:S:553:LEU:HD13	1.93	0.50
1:T:162:VAL:CG1	1:T:164:SER:OG	2.60	0.50
1:A:275:LEU:HD11	1:L:275:LEU:N	2.14	0.50
1:A:488:THR:OG1	1:A:489:THR:N	2.44	0.50
1:A:602:PRO:C	1:A:604:ASP:H	2.19	0.50
1:B:324:LEU:HD13	1:F:271:LEU:HB3	1.88	0.50
1:B:358:ILE:HG22	1:B:360:ASP:H	1.77	0.50
1:B:439:THR:O	1:B:440:SER:OG	2.26	0.50
1:C:259:ARG:HH12	1:K:259:ARG:C	2.19	0.50
1:C:393:VAL:HG13	1:C:407:ILE:O	2.12	0.50
1:C:416:ILE:CG1	1:C:503:ILE:CD1	2.88	0.50
1:D:221:ILE:HD11	1:D:258:ALA:C	2.37	0.50
1:E:293:ASN:O	1:E:294:ASP:O	2.30	0.50
1:F:593:GLN:O	1:F:594:LEU:C	2.54	0.50
1:G:633:VAL:HG12	1:G:635:ASN:H	1.77	0.50
1:H:385:THR:O	1:H:387:ARG:N	2.41	0.50
1:H:555:GLU:C	1:H:555:GLU:CD	2.80	0.50
1:I:463:PHE:O	1:I:466:MET:CG	2.59	0.50
1:K:393:VAL:HG13	1:K:407:ILE:O	2.12	0.50
1:L:220:SER:OG	1:T:230:LYS:NZ	2.39	0.50
1:L:474:ARG:CA	1:L:525:VAL:HG23	2.41	0.50
1:L:555:GLU:C	1:L:555:GLU:CD	2.79	0.50
1:L:606:PHE:O	1:L:650:ILE:HG12	2.12	0.50
1:M:397:GLN:HG2	1:M:523:SER:CB	2.36	0.50
1:N:220:SER:OG	1:R:230:LYS:NZ	2.39	0.50
1:N:460:ASN:CG	1:N:461:THR:H	2.19	0.50
1:O:448:PRO:C	1:O:449:ARG:HG3	2.34	0.50
1:O:569:ASN:C	1:O:570:THR:CG2	2.80	0.50
1:Q:196:LEU:HA	1:Q:202:THR:OG1	2.12	0.50
1:Q:393:VAL:CG1	1:Q:394:THR:N	2.75	0.50
1:Q:598:ASN:C	1:Q:598:ASN:ND2	2.68	0.50
1:R:549:ARG:HD3	1:R:553:LEU:HD13	1.93	0.50
1:S:358:ILE:HG22	1:S:360:ASP:H	1.77	0.50
1:S:397:GLN:HG2	1:S:523:SER:CB	2.36	0.50
1:S:488:THR:OG1	1:S:489:THR:N	2.44	0.50
1:T:171:SER:O	1:T:314:THR:N	2.43	0.50
1:T:299:TYR:O	1:T:300:ALA:O	2.28	0.50
1:T:385:THR:O	1:T:387:ARG:N	2.41	0.50
1:T:437:VAL:CG1	1:T:439:THR:CG2	2.89	0.50
1:T:598:ASN:C	1:T:598:ASN:ND2	2.68	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:299:TYR:O	1:A:300:ALA:O	2.28	0.50
1:A:549:ARG:HD3	1:A:553:LEU:HD13	1.93	0.50
1:B:420:TRP:CG	1:B:421:PRO:HD2	2.46	0.50
1:B:439:THR:HG1	1:B:457:ILE:H	1.56	0.50
1:B:555:GLU:C	1:B:555:GLU:CD	2.79	0.50
1:C:221:ILE:HD11	1:C:258:ALA:C	2.37	0.50
1:C:393:VAL:CG1	1:C:394:THR:N	2.75	0.50
1:C:484:THR:HG21	1:C:512:GLN:HA	1.93	0.50
1:C:593:GLN:O	1:C:594:LEU:C	2.54	0.50
1:D:606:PHE:O	1:D:650:ILE:HG12	2.12	0.50
1:E:221:ILE:HD11	1:E:258:ALA:C	2.37	0.50
1:F:437:VAL:CG1	1:F:439:THR:CG2	2.89	0.50
1:F:606:PHE:O	1:F:650:ILE:HG12	2.12	0.50
1:H:393:VAL:CG1	1:H:394:THR:N	2.75	0.50
1:I:214:SER:HB2	1:I:268:ILE:O	2.11	0.50
1:I:259:ARG:HH12	1:M:259:ARG:C	2.19	0.50
1:I:334:HIS:HB3	1:I:600:LEU:CD1	2.39	0.50
1:I:385:THR:O	1:I:387:ARG:N	2.41	0.50
1:I:393:VAL:HG13	1:I:407:ILE:O	2.12	0.50
1:I:532:TYR:HE2	1:I:535:ILE:CD1	2.24	0.50
1:I:647:TYR:CD1	1:I:647:TYR:N	2.78	0.50
1:J:162:VAL:CG1	1:J:164:SER:OG	2.60	0.50
1:J:196:LEU:HA	1:J:202:THR:OG1	2.12	0.50
1:J:428:LYS:HG2	1:J:498:GLU:HG2	1.92	0.50
1:K:633:VAL:HG12	1:K:635:ASN:H	1.77	0.50
1:L:196:LEU:HA	1:L:202:THR:OG1	2.12	0.50
1:M:259:ARG:HH12	1:R:259:ARG:C	2.19	0.50
1:M:633:VAL:HG12	1:M:635:ASN:H	1.77	0.50
1:P:569:ASN:C	1:P:570:THR:CG2	2.80	0.50
1:Q:393:VAL:HG13	1:Q:407:ILE:O	2.12	0.50
1:Q:420:TRP:CG	1:Q:421:PRO:HD2	2.46	0.50
1:Q:431:PRO:HD2	1:Q:495:ASN:O	2.12	0.50
1:R:183:THR:O	1:R:291:ILE:HD11	2.12	0.50
1:S:214:SER:HB2	1:S:268:ILE:O	2.11	0.50
1:S:341:LEU:HB2	1:S:342:ILE:HD12	1.92	0.50
1:T:214:SER:HB2	1:T:268:ILE:O	2.11	0.50
1:T:221:ILE:HD11	1:T:258:ALA:C	2.37	0.50
1:T:488:THR:OG1	1:T:489:THR:N	2.44	0.50
1:T:633:VAL:HG12	1:T:635:ASN:H	1.77	0.50
1:A:198:ASN:O	1:A:202:THR:HB	2.11	0.50
1:A:383:TRP:HA	1:A:413:VAL:HG11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:393:VAL:HG13	1:A:407:ILE:O	2.12	0.50
1:B:196:LEU:HA	1:B:202:THR:OG1	2.12	0.50
1:B:221:ILE:HD11	1:B:258:ALA:C	2.37	0.50
1:B:608:VAL:O	1:B:609:TYR:HD1	1.94	0.50
1:C:431:PRO:HD2	1:C:495:ASN:O	2.12	0.50
1:C:474:ARG:N	1:C:524:ASP:HA	2.13	0.50
1:C:555:GLU:C	1:C:555:GLU:CD	2.80	0.50
1:E:324:LEU:HD21	1:J:271:LEU:CD2	2.42	0.50
1:E:602:PRO:C	1:E:604:ASP:H	2.19	0.50
1:F:393:VAL:HG13	1:F:407:ILE:O	2.12	0.50
1:F:555:GLU:C	1:F:555:GLU:CD	2.79	0.50
1:F:633:VAL:HG12	1:F:635:ASN:H	1.77	0.50
1:G:397:GLN:CB	1:G:520:VAL:O	2.59	0.50
1:G:439:THR:HG23	1:G:457:ILE:HG12	1.93	0.50
1:H:162:VAL:CG1	1:H:164:SER:OG	2.60	0.50
1:I:162:VAL:CG1	1:I:164:SER:OG	2.60	0.50
1:I:437:VAL:CG1	1:I:439:THR:CG2	2.89	0.50
1:I:606:PHE:O	1:I:650:ILE:HG12	2.12	0.50
1:J:358:ILE:HG22	1:J:360:ASP:H	1.77	0.50
1:J:606:PHE:O	1:J:650:ILE:HG12	2.12	0.50
1:K:196:LEU:HA	1:K:202:THR:OG1	2.12	0.50
1:K:346:SER:HB2	1:K:643:LEU:CB	2.42	0.50
1:K:383:TRP:HA	1:K:413:VAL:HG11	1.93	0.50
1:K:393:VAL:CG1	1:K:394:THR:N	2.75	0.50
1:K:416:ILE:CG1	1:K:503:ILE:CD1	2.88	0.50
1:L:162:VAL:CG1	1:L:164:SER:OG	2.60	0.50
1:L:187:ILE:HG22	1:L:188:LEU:N	2.26	0.50
1:L:431:PRO:HD2	1:L:495:ASN:O	2.12	0.50
1:L:549:ARG:HD3	1:L:553:LEU:HD13	1.93	0.50
1:M:214:SER:HB2	1:M:268:ILE:O	2.11	0.50
1:M:393:VAL:HG13	1:M:407:ILE:O	2.12	0.50
1:M:420:TRP:CG	1:M:421:PRO:HD2	2.46	0.50
1:M:439:THR:HG23	1:M:457:ILE:HG12	1.94	0.50
1:M:484:THR:HG21	1:M:512:GLN:HA	1.92	0.50
1:N:162:VAL:CG1	1:N:164:SER:OG	2.60	0.50
1:O:397:GLN:CB	1:O:520:VAL:O	2.59	0.50
1:O:431:PRO:HD2	1:O:495:ASN:O	2.12	0.50
1:P:187:ILE:HG22	1:P:188:LEU:N	2.26	0.50
1:P:393:VAL:HG13	1:P:407:ILE:O	2.12	0.50
1:P:402:LYS:HD2	1:P:511:PHE:CE2	2.47	0.50
1:Q:358:ILE:HG22	1:Q:360:ASP:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:428:LYS:HG2	1:Q:498:GLU:HG2	1.92	0.50
1:Q:633:VAL:HG12	1:Q:635:ASN:H	1.77	0.50
1:R:341:LEU:HB2	1:R:342:ILE:HD12	1.91	0.50
1:R:393:VAL:HG13	1:R:407:ILE:O	2.12	0.50
1:S:393:VAL:HG13	1:S:407:ILE:O	2.12	0.50
1:A:393:VAL:CG1	1:A:394:THR:N	2.75	0.50
1:A:393:VAL:HG12	1:A:394:THR:N	2.27	0.50
1:A:575:TYR:CG	1:E:480:LYS:HE3	2.46	0.50
1:B:450:GLU:O	1:B:451:TYR:CB	2.57	0.50
1:B:549:ARG:HD3	1:B:553:LEU:HD13	1.93	0.50
1:C:187:ILE:HG22	1:C:188:LEU:N	2.26	0.50
1:D:393:VAL:HG13	1:D:407:ILE:O	2.12	0.50
1:D:471:ALA:HB2	1:D:527:LEU:CB	2.38	0.50
1:E:162:VAL:CG1	1:E:164:SER:OG	2.60	0.50
1:E:474:ARG:CA	1:E:525:VAL:HG23	2.41	0.50
1:F:393:VAL:CG1	1:F:394:THR:N	2.75	0.50
1:F:397:GLN:CB	1:F:520:VAL:O	2.59	0.50
1:F:549:ARG:HD3	1:F:553:LEU:HD13	1.93	0.50
1:G:187:ILE:HG22	1:G:188:LEU:N	2.26	0.50
1:H:209:VAL:HG23	1:H:324:LEU:HB2	1.94	0.50
1:H:346:SER:HB2	1:H:643:LEU:CB	2.42	0.50
1:H:358:ILE:HG22	1:H:360:ASP:H	1.77	0.50
1:H:474:ARG:CA	1:H:525:VAL:HG23	2.41	0.50
1:H:606:PHE:O	1:H:650:ILE:HG12	2.12	0.50
1:J:171:SER:O	1:J:314:THR:N	2.43	0.50
1:J:198:ASN:O	1:J:202:THR:HB	2.11	0.50
1:K:162:VAL:CG1	1:K:164:SER:OG	2.60	0.50
1:K:183:THR:O	1:K:291:ILE:HD11	2.12	0.50
1:K:187:ILE:HG22	1:K:188:LEU:N	2.26	0.50
1:K:439:THR:OG1	1:K:457:ILE:N	2.41	0.50
1:L:393:VAL:CG1	1:L:394:THR:N	2.75	0.50
1:M:358:ILE:HG22	1:M:360:ASP:H	1.77	0.50
1:M:463:PHE:O	1:M:466:MET:CG	2.59	0.50
1:M:608:VAL:O	1:M:609:TYR:HD1	1.94	0.50
1:M:647:TYR:CD1	1:M:647:TYR:N	2.78	0.50
1:O:162:VAL:CG1	1:O:164:SER:OG	2.60	0.50
1:O:221:ILE:HD11	1:O:258:ALA:C	2.37	0.50
1:O:358:ILE:HG22	1:O:360:ASP:H	1.77	0.50
1:O:555:GLU:C	1:O:555:GLU:CD	2.80	0.50
1:O:593:GLN:O	1:O:594:LEU:C	2.54	0.50
1:O:633:VAL:HG12	1:O:635:ASN:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:393:VAL:HG12	1:P:394:THR:N	2.27	0.50
1:Q:606:PHE:O	1:Q:650:ILE:HG12	2.12	0.50
1:R:633:VAL:HG12	1:R:635:ASN:H	1.77	0.50
1:S:577:ILE:O	1:S:578:ARG:CG	2.57	0.50
1:S:606:PHE:O	1:S:650:ILE:HG12	2.12	0.50
1:T:606:PHE:O	1:T:650:ILE:HG12	2.12	0.50
1:T:608:VAL:O	1:T:609:TYR:HD1	1.94	0.50
1:A:474:ARG:CA	1:A:525:VAL:HG23	2.41	0.50
1:B:341:LEU:HB2	1:B:342:ILE:HD12	1.92	0.50
1:B:488:THR:OG1	1:B:489:THR:N	2.44	0.50
1:C:259:ARG:NH1	1:K:259:ARG:HA	2.16	0.50
1:C:437:VAL:CG1	1:C:439:THR:CG2	2.89	0.50
1:C:463:PHE:O	1:C:466:MET:CG	2.59	0.50
1:C:606:PHE:O	1:C:650:ILE:HG12	2.12	0.50
1:D:484:THR:HG21	1:D:512:GLN:HA	1.93	0.50
1:D:488:THR:OG1	1:D:489:THR:N	2.44	0.50
1:D:532:TYR:HE2	1:D:535:ILE:CD1	2.24	0.50
1:D:605:SER:CB	1:D:650:ILE:HG23	2.27	0.50
1:E:383:TRP:HA	1:E:413:VAL:HG11	1.93	0.50
1:E:393:VAL:CG1	1:E:394:THR:N	2.75	0.50
1:E:460:ASN:CG	1:E:461:THR:H	2.19	0.50
1:F:162:VAL:CG1	1:F:164:SER:OG	2.60	0.50
1:F:183:THR:O	1:F:291:ILE:HD11	2.12	0.50
1:F:196:LEU:HA	1:F:202:THR:OG1	2.12	0.50
1:G:299:TYR:O	1:G:300:ALA:O	2.28	0.50
1:H:220:SER:OG	1:O:230:LYS:NZ	2.39	0.50
1:H:293:ASN:O	1:H:294:ASP:O	2.30	0.50
1:H:633:VAL:HG12	1:H:635:ASN:H	1.77	0.50
1:J:504:ASN:CB	1:J:505:PRO:CD	2.83	0.50
1:J:555:GLU:C	1:J:555:GLU:CD	2.79	0.50
1:J:633:VAL:HG12	1:J:635:ASN:H	1.77	0.50
1:L:183:THR:O	1:L:291:ILE:HD11	2.12	0.50
1:L:221:ILE:HD11	1:L:258:ALA:C	2.37	0.50
1:M:209:VAL:HG23	1:M:324:LEU:HB2	1.94	0.50
1:M:437:VAL:CG1	1:M:439:THR:CG2	2.89	0.50
1:M:602:PRO:C	1:M:604:ASP:H	2.19	0.50
1:M:606:PHE:O	1:M:650:ILE:HG12	2.12	0.50
1:O:402:LYS:HD2	1:O:511:PHE:CE2	2.47	0.50
1:P:383:TRP:HA	1:P:413:VAL:HG11	1.93	0.50
1:P:549:ARG:HD3	1:P:553:LEU:HD13	1.93	0.50
1:P:555:GLU:C	1:P:555:GLU:CD	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:201:LEU:HD22	1:R:320:PHE:CE2	2.43	0.50
1:R:647:TYR:CD1	1:R:647:TYR:N	2.78	0.50
1:T:209:VAL:HG23	1:T:324:LEU:HB2	1.94	0.50
1:A:555:GLU:C	1:A:555:GLU:CD	2.80	0.49
1:B:393:VAL:CG1	1:B:394:THR:N	2.75	0.49
1:D:275:LEU:HA	1:L:275:LEU:HD13	1.79	0.49
1:E:183:THR:O	1:E:291:ILE:HD11	2.12	0.49
1:E:393:VAL:HG13	1:E:407:ILE:O	2.12	0.49
1:E:420:TRP:CG	1:E:421:PRO:HD2	2.47	0.49
1:E:439:THR:OG1	1:E:457:ILE:N	2.41	0.49
1:F:259:ARG:C	1:K:259:ARG:HH12	2.19	0.49
1:F:327:PRO:CD	1:R:237:PRO:CG	2.54	0.49
1:F:383:TRP:HA	1:F:413:VAL:HG11	1.93	0.49
1:F:416:ILE:CG1	1:F:503:ILE:CD1	2.88	0.49
1:F:480:LYS:HE3	1:N:575:TYR:CG	2.46	0.49
1:G:183:THR:O	1:G:291:ILE:HD11	2.12	0.49
1:H:532:TYR:HE2	1:H:535:ILE:CD1	2.24	0.49
1:I:393:VAL:HG12	1:I:394:THR:N	2.27	0.49
1:J:191:GLN:HE21	1:J:197:LEU:CD2	2.26	0.49
1:J:393:VAL:CG1	1:J:394:THR:N	2.75	0.49
1:K:166:TRP:C	1:K:168:ALA:N	2.70	0.49
1:K:198:ASN:O	1:K:202:THR:HB	2.11	0.49
1:K:271:LEU:HD22	1:N:324:LEU:HD22	1.92	0.49
1:K:431:PRO:HD2	1:K:495:ASN:O	2.12	0.49
1:K:465:SER:HA	1:K:532:TYR:CE1	2.47	0.49
1:L:348:LEU:HD21	1:S:387:ARG:HH22	1.69	0.49
1:M:385:THR:O	1:M:387:ARG:N	2.41	0.49
1:M:605:SER:CB	1:M:650:ILE:HG23	2.27	0.49
1:N:183:THR:O	1:N:291:ILE:HD11	2.12	0.49
1:N:196:LEU:HA	1:N:202:THR:OG1	2.12	0.49
1:N:402:LYS:HD2	1:N:511:PHE:CE2	2.47	0.49
1:N:549:ARG:HD3	1:N:553:LEU:HD13	1.93	0.49
1:N:633:VAL:HG12	1:N:635:ASN:H	1.77	0.49
1:O:352:ASN:HD22	1:O:586:GLN:N	2.05	0.49
1:P:196:LEU:HA	1:P:202:THR:OG1	2.12	0.49
1:P:532:TYR:HE2	1:P:535:ILE:CD1	2.24	0.49
1:Q:484:THR:HG21	1:Q:512:GLN:HA	1.92	0.49
1:S:299:TYR:O	1:S:300:ALA:O	2.28	0.49
1:S:608:VAL:O	1:S:609:TYR:HD1	1.94	0.49
1:T:593:GLN:O	1:T:594:LEU:C	2.54	0.49
1:A:187:ILE:HG22	1:A:188:LEU:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:196:LEU:HA	1:A:202:THR:OG1	2.12	0.49
1:A:221:ILE:HD11	1:A:258:ALA:C	2.37	0.49
1:A:387:ARG:NH1	1:E:348:LEU:HB3	2.26	0.49
1:A:402:LYS:HD2	1:A:511:PHE:CE2	2.47	0.49
1:A:416:ILE:H	1:A:416:ILE:CD1	2.10	0.49
1:B:393:VAL:HG13	1:B:407:ILE:O	2.12	0.49
1:C:358:ILE:HG22	1:C:360:ASP:H	1.77	0.49
1:D:633:VAL:HG12	1:D:635:ASN:H	1.77	0.49
1:E:191:GLN:HE21	1:E:197:LEU:CD2	2.26	0.49
1:E:259:ARG:HH12	1:O:259:ARG:C	2.19	0.49
1:E:324:LEU:HD22	1:J:271:LEU:HD22	1.92	0.49
1:E:358:ILE:HG22	1:E:360:ASP:H	1.77	0.49
1:E:431:PRO:HD2	1:E:495:ASN:O	2.12	0.49
1:E:439:THR:HG23	1:E:457:ILE:HG12	1.94	0.49
1:F:209:VAL:HG23	1:F:324:LEU:HB2	1.94	0.49
1:F:221:ILE:HD11	1:F:258:ALA:C	2.37	0.49
1:G:431:PRO:HD2	1:G:495:ASN:O	2.12	0.49
1:G:460:ASN:CG	1:G:461:THR:H	2.18	0.49
1:G:488:THR:OG1	1:G:489:THR:N	2.44	0.49
1:G:549:ARG:HD3	1:G:553:LEU:HD13	1.93	0.49
1:H:191:GLN:HE21	1:H:197:LEU:CD2	2.26	0.49
1:H:218:ARG:CG	1:H:265:VAL:HG22	2.42	0.49
1:I:221:ILE:HD11	1:I:258:ALA:C	2.37	0.49
1:I:352:ASN:HD22	1:I:586:GLN:N	2.05	0.49
1:J:166:TRP:C	1:J:168:ALA:N	2.70	0.49
1:K:385:THR:O	1:K:387:ARG:N	2.41	0.49
1:L:166:TRP:C	1:L:168:ALA:N	2.71	0.49
1:L:451:TYR:H	1:L:458:VAL:CB	2.16	0.49
1:M:293:ASN:O	1:M:294:ASP:O	2.30	0.49
1:N:358:ILE:HG22	1:N:360:ASP:H	1.77	0.49
1:N:385:THR:O	1:N:387:ARG:N	2.41	0.49
1:N:393:VAL:HG12	1:N:394:THR:N	2.27	0.49
1:O:183:THR:O	1:O:291:ILE:HD11	2.12	0.49
1:P:191:GLN:HE21	1:P:197:LEU:CD2	2.26	0.49
1:Q:466:MET:O	1:Q:532:TYR:HA	2.11	0.49
1:R:385:THR:O	1:R:387:ARG:N	2.41	0.49
1:R:436:ALA:HB1	1:R:461:THR:HA	1.93	0.49
1:S:187:ILE:HG22	1:S:188:LEU:N	2.26	0.49
1:S:397:GLN:CB	1:S:520:VAL:O	2.59	0.49
1:T:196:LEU:HA	1:T:202:THR:OG1	2.12	0.49
1:T:346:SER:HB2	1:T:643:LEU:CB	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:393:VAL:CG1	1:T:394:THR:N	2.75	0.49
1:A:191:GLN:HE21	1:A:197:LEU:CD2	2.26	0.49
1:A:385:THR:O	1:A:387:ARG:N	2.41	0.49
1:A:465:SER:HA	1:A:532:TYR:CE1	2.48	0.49
1:B:187:ILE:HG22	1:B:188:LEU:N	2.26	0.49
1:B:480:LYS:HE3	1:D:575:TYR:CG	2.46	0.49
1:D:293:ASN:O	1:D:294:ASP:O	2.30	0.49
1:D:393:VAL:HG12	1:D:394:THR:N	2.27	0.49
1:D:436:ALA:HB1	1:D:461:THR:HA	1.93	0.49
1:D:474:ARG:CA	1:D:525:VAL:HG23	2.41	0.49
1:E:187:ILE:HG22	1:E:188:LEU:N	2.26	0.49
1:E:209:VAL:HG23	1:E:324:LEU:HB2	1.94	0.49
1:F:431:PRO:HD2	1:F:495:ASN:O	2.12	0.49
1:F:647:TYR:CD1	1:F:647:TYR:N	2.78	0.49
1:H:393:VAL:HG13	1:H:407:ILE:O	2.12	0.49
1:H:577:ILE:O	1:H:578:ARG:CG	2.57	0.49
1:H:593:GLN:O	1:H:594:LEU:C	2.54	0.49
1:I:166:TRP:C	1:I:168:ALA:N	2.70	0.49
1:I:358:ILE:HG22	1:I:360:ASP:H	1.77	0.49
1:I:465:SER:HA	1:I:532:TYR:CE1	2.47	0.49
1:I:593:GLN:O	1:I:594:LEU:C	2.54	0.49
1:J:259:ARG:HA	1:P:259:ARG:NH1	2.16	0.49
1:J:393:VAL:HG13	1:J:407:ILE:O	2.12	0.49
1:K:424:THR:CG2	1:K:425:ILE:N	2.76	0.49
1:K:474:ARG:CA	1:K:525:VAL:HG23	2.41	0.49
1:L:593:GLN:O	1:L:594:LEU:C	2.54	0.49
1:M:162:VAL:CG1	1:M:164:SER:OG	2.60	0.49
1:M:166:TRP:C	1:M:168:ALA:N	2.70	0.49
1:M:191:GLN:HE21	1:M:197:LEU:CD2	2.26	0.49
1:M:482:SER:OG	1:M:483:ASN:N	2.39	0.49
1:N:198:ASN:O	1:N:202:THR:HB	2.11	0.49
1:N:593:GLN:O	1:N:594:LEU:C	2.54	0.49
1:O:196:LEU:HA	1:O:202:THR:OG1	2.12	0.49
1:O:393:VAL:CG1	1:O:394:THR:N	2.75	0.49
1:O:549:ARG:HD3	1:O:553:LEU:HD13	1.93	0.49
1:P:393:VAL:CG1	1:P:394:THR:N	2.75	0.49
1:P:437:VAL:CG1	1:P:439:THR:CG2	2.89	0.49
1:Q:280:SER:HG	1:Q:334:HIS:HE2	0.50	0.49
1:Q:437:VAL:O	1:Q:438:THR:HB	2.13	0.49
1:Q:474:ARG:CA	1:Q:525:VAL:HG23	2.41	0.49
1:Q:575:TYR:CG	1:R:480:LYS:HE3	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:431:PRO:HD2	1:S:495:ASN:O	2.12	0.49
1:T:402:LYS:HD2	1:T:511:PHE:CE2	2.47	0.49
1:T:549:ARG:HD3	1:T:553:LEU:HD13	1.93	0.49
1:A:183:THR:O	1:A:291:ILE:HD11	2.12	0.49
1:A:397:GLN:CB	1:A:520:VAL:O	2.59	0.49
1:A:633:VAL:HG12	1:A:635:ASN:H	1.77	0.49
1:B:436:ALA:HB1	1:B:461:THR:HA	1.93	0.49
1:B:465:SER:HA	1:B:532:TYR:CE1	2.47	0.49
1:C:465:SER:HA	1:C:532:TYR:CE1	2.48	0.49
1:C:598:ASN:C	1:C:598:ASN:ND2	2.68	0.49
1:D:647:TYR:CD1	1:D:647:TYR:N	2.78	0.49
1:E:488:THR:OG1	1:E:489:THR:N	2.44	0.49
1:E:608:VAL:O	1:E:609:TYR:HD1	1.94	0.49
1:F:324:LEU:HD22	1:R:271:LEU:HD22	1.92	0.49
1:H:183:THR:O	1:H:291:ILE:HD11	2.12	0.49
1:I:280:SER:HG	1:I:334:HIS:CE1	2.01	0.49
1:I:424:THR:CG2	1:I:425:ILE:N	2.76	0.49
1:I:436:ALA:HB1	1:I:461:THR:HA	1.93	0.49
1:J:209:VAL:HG23	1:J:324:LEU:HB2	1.94	0.49
1:J:220:SER:OG	1:P:230:LYS:NZ	2.39	0.49
1:J:397:GLN:CB	1:J:520:VAL:O	2.59	0.49
1:J:427:SER:HG	1:J:429:LEU:HD21	1.70	0.49
1:J:532:TYR:HE2	1:J:535:ILE:CD1	2.24	0.49
1:K:166:TRP:HA	1:K:169:PHE:HE2	1.78	0.49
1:K:191:GLN:HE21	1:K:197:LEU:CD2	2.26	0.49
1:K:221:ILE:HD11	1:K:258:ALA:C	2.37	0.49
1:L:465:SER:HA	1:L:532:TYR:CE1	2.48	0.49
1:M:196:LEU:HA	1:M:202:THR:OG1	2.12	0.49
1:M:393:VAL:CG1	1:M:394:THR:N	2.75	0.49
1:N:166:TRP:HA	1:N:169:PHE:HE2	1.78	0.49
1:N:191:GLN:HE21	1:N:197:LEU:CD2	2.26	0.49
1:N:221:ILE:HD11	1:N:258:ALA:C	2.37	0.49
1:N:397:GLN:CB	1:N:520:VAL:O	2.59	0.49
1:N:424:THR:CG2	1:N:425:ILE:N	2.76	0.49
1:N:606:PHE:O	1:N:650:ILE:HG12	2.12	0.49
1:P:209:VAL:HG23	1:P:324:LEU:HB2	1.94	0.49
1:P:431:PRO:HD2	1:P:495:ASN:O	2.12	0.49
1:Q:198:ASN:O	1:Q:202:THR:HB	2.11	0.49
1:Q:209:VAL:HG23	1:Q:324:LEU:HB2	1.94	0.49
1:Q:437:VAL:CG1	1:Q:439:THR:CG2	2.89	0.49
1:R:162:VAL:CG1	1:R:164:SER:OG	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:218:ARG:CG	1:R:265:VAL:HG22	2.42	0.49
1:S:280:SER:HG	1:S:334:HIS:HE2	0.50	0.49
1:S:465:SER:HA	1:S:532:TYR:CE1	2.47	0.49
1:S:593:GLN:O	1:S:594:LEU:C	2.54	0.49
1:T:439:THR:O	1:T:440:SER:OG	2.26	0.49
1:T:460:ASN:CG	1:T:461:THR:H	2.19	0.49
1:A:436:ALA:HB1	1:A:461:THR:HA	1.93	0.49
1:B:162:VAL:CG1	1:B:164:SER:OG	2.60	0.49
1:B:271:LEU:HD22	1:R:324:LEU:HD22	1.92	0.49
1:B:271:LEU:CD2	1:R:324:LEU:HD21	2.42	0.49
1:B:275:LEU:HG	1:R:275:LEU:CD1	2.26	0.49
1:B:431:PRO:HD2	1:B:495:ASN:O	2.12	0.49
1:C:385:THR:O	1:C:387:ARG:N	2.41	0.49
1:C:424:THR:CG2	1:C:425:ILE:N	2.76	0.49
1:C:602:PRO:CG	1:C:605:SER:CB	2.73	0.49
1:D:191:GLN:HE21	1:D:197:LEU:CD2	2.26	0.49
1:D:259:ARG:C	1:F:259:ARG:HH12	2.19	0.49
1:D:402:LYS:HD2	1:D:511:PHE:CE2	2.47	0.49
1:G:465:SER:HA	1:G:532:TYR:CE1	2.47	0.49
1:G:577:ILE:O	1:G:578:ARG:CG	2.57	0.49
1:H:439:THR:HG1	1:H:457:ILE:H	1.58	0.49
1:I:549:ARG:HD3	1:I:553:LEU:HD13	1.93	0.49
1:I:633:VAL:HG12	1:I:635:ASN:H	1.77	0.49
1:J:221:ILE:HD11	1:J:258:ALA:C	2.37	0.49
1:K:608:VAL:O	1:K:609:TYR:HD1	1.94	0.49
1:L:191:GLN:HE21	1:L:197:LEU:CD2	2.26	0.49
1:O:166:TRP:HA	1:O:169:PHE:HE2	1.78	0.49
1:O:218:ARG:CG	1:O:265:VAL:HG22	2.42	0.49
1:O:439:THR:HG23	1:O:457:ILE:HG12	1.94	0.49
1:P:166:TRP:C	1:P:168:ALA:N	2.70	0.49
1:P:218:ARG:CG	1:P:265:VAL:HG22	2.42	0.49
1:P:352:ASN:HD22	1:P:586:GLN:N	2.05	0.49
1:P:385:THR:O	1:P:387:ARG:N	2.41	0.49
1:P:606:PHE:O	1:P:650:ILE:HG12	2.12	0.49
1:Q:439:THR:OG1	1:Q:457:ILE:N	2.41	0.49
1:Q:480:LYS:HE3	1:R:575:TYR:CG	2.46	0.49
1:Q:555:GLU:C	1:Q:555:GLU:CD	2.80	0.49
1:R:465:SER:HA	1:R:532:TYR:CE1	2.47	0.49
1:S:451:TYR:H	1:S:458:VAL:CB	2.16	0.49
1:T:293:ASN:O	1:T:294:ASP:O	2.30	0.49
1:T:431:PRO:HD2	1:T:495:ASN:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:555:GLU:C	1:T:555:GLU:CD	2.79	0.49
1:A:162:VAL:CG1	1:A:164:SER:OG	2.60	0.49
1:A:532:TYR:HE2	1:A:535:ILE:CD1	2.24	0.49
1:B:259:ARG:NH1	1:Q:259:ARG:HA	2.16	0.49
1:B:602:PRO:CG	1:B:605:SER:CB	2.73	0.49
1:C:162:VAL:CG1	1:C:164:SER:OG	2.60	0.49
1:C:166:TRP:C	1:C:168:ALA:N	2.71	0.49
1:C:293:ASN:O	1:C:294:ASP:O	2.30	0.49
1:D:187:ILE:HG22	1:D:188:LEU:N	2.26	0.49
1:E:259:ARG:C	1:L:259:ARG:HH12	2.19	0.49
1:F:201:LEU:HD22	1:F:320:PHE:CE2	2.43	0.49
1:G:402:LYS:HD2	1:G:511:PHE:CE2	2.47	0.49
1:G:439:THR:O	1:G:440:SER:OG	2.26	0.49
1:J:431:PRO:HD2	1:J:495:ASN:O	2.12	0.49
1:L:393:VAL:HG13	1:L:407:ILE:O	2.12	0.49
1:N:209:VAL:HG23	1:N:324:LEU:HB2	1.94	0.49
1:N:218:ARG:CG	1:N:265:VAL:HG22	2.42	0.49
1:O:203:HIS:O	1:O:206:LYS:HB2	2.13	0.49
1:P:162:VAL:CG1	1:P:164:SER:OG	2.60	0.49
1:Q:293:ASN:O	1:Q:294:ASP:O	2.30	0.49
1:Q:608:VAL:O	1:Q:609:TYR:HD1	1.94	0.49
1:R:358:ILE:HG22	1:R:360:ASP:H	1.77	0.49
1:R:606:PHE:O	1:R:650:ILE:HG12	2.12	0.49
1:S:162:VAL:CG1	1:S:164:SER:OG	2.60	0.49
1:S:183:THR:O	1:S:291:ILE:HD11	2.12	0.49
1:S:402:LYS:HD2	1:S:511:PHE:CE2	2.47	0.49
1:T:187:ILE:HG22	1:T:188:LEU:N	2.26	0.49
1:T:465:SER:HA	1:T:532:TYR:CE1	2.48	0.49
1:T:471:ALA:HB2	1:T:527:LEU:CB	2.38	0.49
1:T:526:THR:HG22	1:T:527:LEU:H	1.78	0.49
1:A:431:PRO:HD2	1:A:495:ASN:O	2.12	0.49
1:B:166:TRP:C	1:B:168:ALA:N	2.70	0.49
1:B:183:THR:O	1:B:291:ILE:HD11	2.12	0.49
1:B:424:THR:CG2	1:B:425:ILE:N	2.76	0.49
1:C:196:LEU:HA	1:C:202:THR:OG1	2.12	0.49
1:C:439:THR:CG2	1:C:457:ILE:CG1	2.91	0.49
1:C:633:VAL:HG12	1:C:635:ASN:H	1.77	0.49
1:D:183:THR:O	1:D:291:ILE:HD11	2.12	0.49
1:D:209:VAL:HG23	1:D:324:LEU:HB2	1.94	0.49
1:D:358:ILE:HG22	1:D:360:ASP:H	1.77	0.49
1:D:397:GLN:CB	1:D:520:VAL:O	2.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:431:PRO:HD2	1:D:495:ASN:O	2.12	0.49
1:E:276:TYR:CE1	1:J:273:SER:O	2.61	0.49
1:G:171:SER:O	1:G:314:THR:N	2.43	0.49
1:G:393:VAL:CG1	1:G:394:THR:N	2.75	0.49
1:M:183:THR:O	1:M:291:ILE:HD11	2.12	0.49
1:M:532:TYR:HE2	1:M:535:ILE:CD1	2.24	0.49
1:N:218:ARG:HB2	1:N:265:VAL:CG2	2.34	0.49
1:N:471:ALA:HB2	1:N:527:LEU:CB	2.39	0.49
1:O:191:GLN:HE21	1:O:197:LEU:CD2	2.26	0.49
1:P:183:THR:O	1:P:291:ILE:HD11	2.12	0.49
1:P:346:SER:HB2	1:P:643:LEU:CB	2.42	0.49
1:P:374:PHE:CZ	1:P:386:PRO:HD3	2.48	0.49
1:Q:465:SER:HA	1:Q:532:TYR:CE1	2.47	0.49
1:R:191:GLN:HE21	1:R:197:LEU:CD2	2.26	0.49
1:R:209:VAL:HG23	1:R:324:LEU:HB2	1.94	0.49
1:R:439:THR:HG23	1:R:457:ILE:HG12	1.94	0.49
1:T:358:ILE:HG22	1:T:360:ASP:H	1.77	0.49
1:A:324:LEU:HD21	1:L:271:LEU:CD2	2.42	0.49
1:A:532:TYR:CE2	1:A:535:ILE:HD12	2.43	0.49
1:A:606:PHE:O	1:A:650:ILE:HG12	2.12	0.49
1:B:332:LEU:CD2	1:B:334:HIS:H	2.26	0.49
1:B:346:SER:HB2	1:B:643:LEU:CB	2.42	0.49
1:C:183:THR:O	1:C:291:ILE:HD11	2.12	0.49
1:D:593:GLN:O	1:D:594:LEU:C	2.54	0.49
1:E:593:GLN:O	1:E:594:LEU:C	2.54	0.49
1:H:431:PRO:HD2	1:H:495:ASN:O	2.12	0.49
1:H:465:SER:HA	1:H:532:TYR:CE1	2.48	0.49
1:I:431:PRO:HD2	1:I:495:ASN:O	2.12	0.49
1:I:439:THR:CG2	1:I:457:ILE:CG1	2.91	0.49
1:K:293:ASN:O	1:K:294:ASP:O	2.30	0.49
1:K:605:SER:CB	1:K:650:ILE:HG23	2.27	0.49
1:L:209:VAL:HG23	1:L:324:LEU:HB2	1.94	0.49
1:L:218:ARG:CG	1:L:265:VAL:HG22	2.42	0.49
1:N:203:HIS:O	1:N:206:LYS:HB2	2.13	0.49
1:N:393:VAL:CG1	1:N:394:THR:N	2.75	0.49
1:N:393:VAL:HG13	1:N:407:ILE:O	2.12	0.49
1:N:577:ILE:O	1:N:578:ARG:CG	2.57	0.49
1:O:439:THR:O	1:O:440:SER:OG	2.26	0.49
1:P:465:SER:HA	1:P:532:TYR:CE1	2.48	0.49
1:P:577:ILE:O	1:P:578:ARG:CG	2.57	0.49
1:Q:346:SER:HB2	1:Q:643:LEU:CB	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:593:GLN:O	1:Q:594:LEU:C	2.54	0.49
1:R:488:THR:OG1	1:R:489:THR:N	2.44	0.49
1:R:605:SER:CB	1:R:650:ILE:HG23	2.27	0.49
1:S:196:LEU:HA	1:S:202:THR:OG1	2.12	0.49
1:S:221:ILE:HD11	1:S:258:ALA:C	2.37	0.49
1:S:439:THR:OG1	1:S:457:ILE:N	2.41	0.49
1:T:424:THR:CG2	1:T:425:ILE:N	2.76	0.49
1:B:201:LEU:HD22	1:B:320:PHE:CE2	2.43	0.49
1:B:385:THR:O	1:B:387:ARG:N	2.41	0.49
1:B:438:THR:C	1:B:457:ILE:HG13	2.38	0.49
1:B:532:TYR:HE2	1:B:535:ILE:CD1	2.24	0.49
1:C:526:THR:HG22	1:C:527:LEU:H	1.78	0.49
1:C:532:TYR:CE2	1:C:535:ILE:HD12	2.43	0.49
1:D:203:HIS:O	1:D:206:LYS:HB2	2.13	0.49
1:D:465:SER:HA	1:D:532:TYR:CE1	2.47	0.49
1:D:555:GLU:C	1:D:555:GLU:CD	2.80	0.49
1:E:203:HIS:O	1:E:206:LYS:HB2	2.13	0.49
1:E:393:VAL:HG12	1:E:394:THR:N	2.27	0.49
1:F:325:LEU:CD2	1:N:165:GLU:CB	2.82	0.49
1:F:526:THR:HG22	1:F:527:LEU:H	1.78	0.49
1:F:608:VAL:O	1:F:609:TYR:HD1	1.94	0.49
1:G:439:THR:HG1	1:G:457:ILE:CG1	2.25	0.49
1:G:442:GLY:C	1:G:444:ASP:H	2.21	0.49
1:H:442:GLY:C	1:H:444:ASP:H	2.21	0.49
1:H:526:THR:HG22	1:H:527:LEU:H	1.78	0.49
1:I:203:HIS:O	1:I:206:LYS:HB2	2.13	0.49
1:I:209:VAL:HG23	1:I:324:LEU:HB2	1.94	0.49
1:I:437:VAL:O	1:I:438:THR:HB	2.13	0.49
1:I:474:ARG:CA	1:I:525:VAL:HG23	2.41	0.49
1:J:183:THR:O	1:J:291:ILE:HD11	2.12	0.49
1:J:374:PHE:CZ	1:J:386:PRO:HD3	2.48	0.49
1:J:442:GLY:C	1:J:444:ASP:H	2.21	0.49
1:L:424:THR:CG2	1:L:425:ILE:N	2.76	0.49
1:M:374:PHE:CZ	1:M:386:PRO:HD3	2.48	0.49
1:M:431:PRO:HD2	1:M:495:ASN:O	2.12	0.49
1:O:442:GLY:C	1:O:444:ASP:H	2.21	0.49
1:O:465:SER:HA	1:O:532:TYR:CE1	2.48	0.49
1:O:606:PHE:O	1:O:650:ILE:HG12	2.12	0.49
1:Q:183:THR:O	1:Q:291:ILE:HD11	2.12	0.49
1:Q:424:THR:CG2	1:Q:425:ILE:N	2.76	0.49
1:Q:504:ASN:CB	1:Q:505:PRO:CD	2.83	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:526:THR:HG22	1:Q:527:LEU:H	1.78	0.49
1:S:203:HIS:O	1:S:206:LYS:HB2	2.13	0.49
1:T:218:ARG:CG	1:T:265:VAL:HG22	2.42	0.49
1:T:393:VAL:HG13	1:T:407:ILE:O	2.12	0.49
1:T:437:VAL:O	1:T:438:THR:HB	2.13	0.49
1:A:358:ILE:HG22	1:A:360:ASP:H	1.77	0.49
1:A:374:PHE:CZ	1:A:386:PRO:HD3	2.48	0.49
1:B:526:THR:HG22	1:B:527:LEU:H	1.78	0.49
1:C:209:VAL:HG23	1:C:324:LEU:HB2	1.94	0.49
1:D:162:VAL:CG1	1:D:164:SER:OG	2.60	0.49
1:E:374:PHE:CZ	1:E:386:PRO:HD3	2.48	0.49
1:F:187:ILE:HG22	1:F:188:LEU:N	2.26	0.49
1:F:358:ILE:HG22	1:F:360:ASP:H	1.77	0.49
1:F:374:PHE:CZ	1:F:386:PRO:HD3	2.48	0.49
1:H:259:ARG:HH12	1:T:259:ARG:C	2.19	0.49
1:H:438:THR:C	1:H:457:ILE:HG13	2.38	0.49
1:I:218:ARG:CG	1:I:265:VAL:HG22	2.42	0.49
1:I:393:VAL:CG1	1:I:394:THR:N	2.75	0.49
1:I:439:THR:HG23	1:I:457:ILE:HG12	1.94	0.49
1:I:442:GLY:C	1:I:444:ASP:H	2.21	0.49
1:J:450:GLU:O	1:J:451:TYR:CB	2.57	0.49
1:K:235:VAL:O	1:N:327:PRO:HG3	2.13	0.49
1:K:280:SER:HG	1:K:334:HIS:HE2	0.49	0.49
1:L:402:LYS:HD2	1:L:511:PHE:CE2	2.47	0.49
1:L:633:VAL:HG12	1:L:635:ASN:H	1.77	0.49
1:M:221:ILE:HD11	1:M:258:ALA:C	2.37	0.49
1:N:293:ASN:O	1:N:294:ASP:O	2.30	0.49
1:N:431:PRO:HD2	1:N:495:ASN:O	2.12	0.49
1:N:465:SER:HA	1:N:532:TYR:CE1	2.47	0.49
1:O:293:ASN:O	1:O:294:ASP:O	2.30	0.49
1:O:424:THR:CG2	1:O:425:ILE:N	2.76	0.49
1:Q:203:HIS:O	1:Q:206:LYS:HB2	2.13	0.49
1:R:166:TRP:HA	1:R:169:PHE:HE2	1.78	0.49
1:R:374:PHE:CZ	1:R:386:PRO:HD3	2.48	0.49
1:R:424:THR:CG2	1:R:425:ILE:N	2.76	0.49
1:S:374:PHE:CZ	1:S:386:PRO:HD3	2.48	0.49
1:S:526:THR:HG22	1:S:527:LEU:H	1.78	0.49
1:T:183:THR:O	1:T:291:ILE:HD11	2.12	0.49
1:T:280:SER:HG	1:T:334:HIS:HE2	0.49	0.49
1:A:218:ARG:CG	1:A:265:VAL:HG22	2.42	0.48
1:A:327:PRO:HG3	1:L:235:VAL:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:393:VAL:HG12	1:B:394:THR:N	2.27	0.48
1:C:442:GLY:C	1:C:444:ASP:H	2.21	0.48
1:D:424:THR:CG2	1:D:425:ILE:N	2.76	0.48
1:E:327:PRO:HG2	1:J:237:PRO:CD	2.31	0.48
1:E:606:PHE:O	1:E:650:ILE:HG12	2.12	0.48
1:F:191:GLN:HE21	1:F:197:LEU:CD2	2.26	0.48
1:G:162:VAL:CG1	1:G:164:SER:OG	2.60	0.48
1:G:209:VAL:HG23	1:G:324:LEU:HB2	1.94	0.48
1:G:218:ARG:CG	1:G:265:VAL:HG22	2.42	0.48
1:G:438:THR:C	1:G:457:ILE:HG13	2.38	0.48
1:G:618:TRP:CE2	1:G:660:ASN:HB2	2.48	0.48
1:I:504:ASN:CB	1:I:505:PRO:CD	2.83	0.48
1:J:346:SER:HB2	1:J:643:LEU:CB	2.42	0.48
1:J:438:THR:C	1:J:457:ILE:HG13	2.38	0.48
1:K:209:VAL:HG23	1:K:324:LEU:HB2	1.94	0.48
1:K:358:ILE:HG22	1:K:360:ASP:H	1.77	0.48
1:K:437:VAL:O	1:K:438:THR:HB	2.13	0.48
1:L:358:ILE:HG22	1:L:360:ASP:H	1.77	0.48
1:M:471:ALA:HB2	1:M:527:LEU:CB	2.39	0.48
1:N:259:ARG:HA	1:R:259:ARG:NH1	2.16	0.48
1:Q:332:LEU:CD2	1:Q:334:HIS:H	2.26	0.48
1:Q:438:THR:C	1:Q:457:ILE:HG13	2.38	0.48
1:Q:442:GLY:C	1:Q:444:ASP:H	2.21	0.48
1:R:431:PRO:HD2	1:R:495:ASN:O	2.12	0.48
1:R:442:GLY:C	1:R:444:ASP:H	2.21	0.48
1:S:218:ARG:CG	1:S:265:VAL:HG22	2.42	0.48
1:S:424:THR:CG2	1:S:425:ILE:N	2.76	0.48
1:S:555:GLU:C	1:S:555:GLU:CD	2.80	0.48
1:A:402:LYS:HD3	1:A:511:PHE:CE2	2.34	0.48
1:A:471:ALA:HB2	1:A:527:LEU:CB	2.39	0.48
1:B:218:ARG:CG	1:B:265:VAL:HG22	2.42	0.48
1:B:324:LEU:HD22	1:F:271:LEU:HD22	1.92	0.48
1:B:402:LYS:HD2	1:B:511:PHE:CE2	2.47	0.48
1:B:606:PHE:O	1:B:650:ILE:HG12	2.12	0.48
1:C:191:GLN:HE21	1:C:197:LEU:CD2	2.26	0.48
1:C:374:PHE:CZ	1:C:386:PRO:HD3	2.48	0.48
1:C:393:VAL:HG12	1:C:394:THR:N	2.27	0.48
1:E:327:PRO:HG3	1:J:235:VAL:O	2.13	0.48
1:F:220:SER:OG	1:K:230:LYS:NZ	2.39	0.48
1:F:324:LEU:HD21	1:R:271:LEU:CD2	2.41	0.48
1:F:402:LYS:HD2	1:F:511:PHE:CE2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:191:GLN:HE21	1:G:197:LEU:CD2	2.26	0.48
1:G:332:LEU:CD2	1:G:334:HIS:H	2.26	0.48
1:G:358:ILE:HG22	1:G:360:ASP:H	1.77	0.48
1:G:374:PHE:CZ	1:G:386:PRO:HD3	2.48	0.48
1:G:526:THR:HG22	1:G:527:LEU:H	1.78	0.48
1:H:424:THR:CG2	1:H:425:ILE:N	2.76	0.48
1:I:187:ILE:HG22	1:I:188:LEU:N	2.26	0.48
1:I:618:TRP:CE2	1:I:660:ASN:HB2	2.48	0.48
1:J:187:ILE:HG22	1:J:188:LEU:N	2.26	0.48
1:J:352:ASN:HD22	1:J:586:GLN:N	2.05	0.48
1:K:201:LEU:HD22	1:K:320:PHE:CE2	2.43	0.48
1:K:332:LEU:CD2	1:K:334:HIS:H	2.26	0.48
1:K:374:PHE:CZ	1:K:386:PRO:HD3	2.48	0.48
1:K:393:VAL:HG12	1:K:394:THR:N	2.27	0.48
1:K:436:ALA:HB1	1:K:461:THR:HA	1.93	0.48
1:K:526:THR:HG22	1:K:527:LEU:H	1.78	0.48
1:L:526:THR:HG22	1:L:527:LEU:H	1.78	0.48
1:L:618:TRP:CE2	1:L:660:ASN:HB2	2.48	0.48
1:M:424:THR:CG2	1:M:425:ILE:N	2.76	0.48
1:N:416:ILE:CG1	1:N:503:ILE:CD1	2.88	0.48
1:N:442:GLY:C	1:N:444:ASP:H	2.21	0.48
1:O:346:SER:HB2	1:O:643:LEU:CB	2.42	0.48
1:O:437:VAL:O	1:O:438:THR:HB	2.13	0.48
1:O:482:SER:OG	1:O:483:ASN:N	2.39	0.48
1:O:526:THR:HG22	1:O:527:LEU:H	1.78	0.48
1:O:618:TRP:CE2	1:O:660:ASN:HB2	2.48	0.48
1:P:203:HIS:O	1:P:206:LYS:HB2	2.13	0.48
1:P:471:ALA:HB2	1:P:527:LEU:CB	2.39	0.48
1:Q:162:VAL:CG1	1:Q:164:SER:OG	2.60	0.48
1:R:393:VAL:HG12	1:R:394:THR:N	2.27	0.48
1:R:532:TYR:HE2	1:R:535:ILE:CD1	2.24	0.48
1:T:166:TRP:C	1:T:168:ALA:N	2.71	0.48
1:T:332:LEU:CD2	1:T:334:HIS:H	2.26	0.48
1:A:324:LEU:HD22	1:L:271:LEU:HD22	1.92	0.48
1:A:438:THR:C	1:A:457:ILE:HG13	2.38	0.48
1:A:482:SER:OG	1:A:483:ASN:N	2.39	0.48
1:B:203:HIS:O	1:B:206:LYS:HB2	2.13	0.48
1:B:276:TYR:CE1	1:F:273:SER:O	2.61	0.48
1:C:222:SER:HG	1:S:229:GLY:C	2.18	0.48
1:D:218:ARG:CG	1:D:265:VAL:HG22	2.42	0.48
1:D:526:THR:HG22	1:D:527:LEU:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:203:HIS:O	1:F:206:LYS:HB2	2.13	0.48
1:F:280:SER:HG	1:F:334:HIS:HE2	0.50	0.48
1:F:465:SER:HA	1:F:532:TYR:CE1	2.47	0.48
1:F:618:TRP:CE2	1:F:660:ASN:HB2	2.48	0.48
1:G:346:SER:HB2	1:G:643:LEU:CB	2.42	0.48
1:G:393:VAL:HG13	1:G:407:ILE:O	2.12	0.48
1:G:439:THR:OG1	1:G:457:ILE:N	2.41	0.48
1:H:393:VAL:HG12	1:H:394:THR:N	2.27	0.48
1:I:183:THR:O	1:I:291:ILE:HD11	2.12	0.48
1:I:332:LEU:CD2	1:I:334:HIS:H	2.26	0.48
1:J:465:SER:HA	1:J:532:TYR:CE1	2.48	0.48
1:L:393:VAL:HG12	1:L:394:THR:N	2.27	0.48
1:M:271:LEU:CD2	1:Q:324:LEU:HD21	2.42	0.48
1:M:465:SER:HA	1:M:532:TYR:CE1	2.47	0.48
1:M:526:THR:HG22	1:M:527:LEU:H	1.78	0.48
1:O:209:VAL:HG23	1:O:324:LEU:HB2	1.94	0.48
1:Q:618:TRP:CE2	1:Q:660:ASN:HB2	2.48	0.48
1:R:203:HIS:O	1:R:206:LYS:HB2	2.13	0.48
1:R:397:GLN:HA	1:R:403:LEU:HD21	1.96	0.48
1:R:618:TRP:CE2	1:R:660:ASN:HB2	2.48	0.48
1:S:201:LEU:HD22	1:S:320:PHE:CE2	2.43	0.48
1:T:577:ILE:O	1:T:578:ARG:CG	2.57	0.48
1:A:437:VAL:O	1:A:438:THR:HB	2.13	0.48
1:B:166:TRP:HA	1:B:169:PHE:HE2	1.78	0.48
1:B:234:ILE:CD1	1:B:288:VAL:HB	2.44	0.48
1:B:235:VAL:O	1:R:327:PRO:HG3	2.13	0.48
1:D:438:THR:C	1:D:457:ILE:HG13	2.38	0.48
1:E:234:ILE:CD1	1:E:288:VAL:HB	2.44	0.48
1:E:526:THR:HG22	1:E:527:LEU:H	1.78	0.48
1:E:549:ARG:HD3	1:E:553:LEU:HD13	1.93	0.48
1:F:424:THR:CG2	1:F:425:ILE:N	2.76	0.48
1:F:437:VAL:O	1:F:438:THR:HB	2.13	0.48
1:F:532:TYR:HE2	1:F:535:ILE:CD1	2.24	0.48
1:G:166:TRP:HA	1:G:169:PHE:HE2	1.78	0.48
1:I:602:PRO:CG	1:I:605:SER:CB	2.73	0.48
1:J:618:TRP:CE2	1:J:660:ASN:HB2	2.48	0.48
1:K:271:LEU:HB3	1:N:324:LEU:HD13	1.88	0.48
1:L:171:SER:O	1:L:314:THR:N	2.43	0.48
1:L:374:PHE:CZ	1:L:386:PRO:HD3	2.48	0.48
1:N:201:LEU:HD22	1:N:320:PHE:CE2	2.43	0.48
1:N:438:THR:C	1:N:457:ILE:HG13	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:397:GLN:HA	1:P:403:LEU:HD21	1.96	0.48
1:P:424:THR:CG2	1:P:425:ILE:N	2.76	0.48
1:P:438:THR:C	1:P:457:ILE:HG13	2.38	0.48
1:Q:218:ARG:CG	1:Q:265:VAL:HG22	2.42	0.48
1:Q:374:PHE:CZ	1:Q:386:PRO:HD3	2.48	0.48
1:S:234:ILE:CD1	1:S:288:VAL:HB	2.44	0.48
1:S:346:SER:HB2	1:S:643:LEU:CB	2.42	0.48
1:S:385:THR:O	1:S:387:ARG:N	2.41	0.48
1:S:437:VAL:O	1:S:438:THR:HB	2.13	0.48
1:S:438:THR:C	1:S:457:ILE:HG13	2.38	0.48
1:A:209:VAL:HG23	1:A:324:LEU:HB2	1.94	0.48
1:A:235:VAL:O	1:D:327:PRO:HG3	2.13	0.48
1:B:324:LEU:HD21	1:F:271:LEU:CD2	2.42	0.48
1:C:166:TRP:HA	1:C:169:PHE:HE2	1.78	0.48
1:C:402:LYS:HD2	1:C:511:PHE:CE2	2.47	0.48
1:D:577:ILE:O	1:D:578:ARG:CG	2.57	0.48
1:E:218:ARG:CG	1:E:265:VAL:HG22	2.42	0.48
1:E:397:GLN:HA	1:E:403:LEU:HD21	1.96	0.48
1:E:618:TRP:CE2	1:E:660:ASN:HB2	2.48	0.48
1:F:234:ILE:CD1	1:F:288:VAL:HB	2.44	0.48
1:F:327:PRO:HG3	1:R:235:VAL:O	2.13	0.48
1:G:424:THR:CG2	1:G:425:ILE:N	2.76	0.48
1:H:234:ILE:CD1	1:H:288:VAL:HB	2.44	0.48
1:H:374:PHE:CZ	1:H:386:PRO:HD3	2.48	0.48
1:I:346:SER:HB2	1:I:643:LEU:CB	2.42	0.48
1:I:526:THR:HG22	1:I:527:LEU:H	1.78	0.48
1:J:218:ARG:CG	1:J:265:VAL:HG22	2.43	0.48
1:K:606:PHE:O	1:K:650:ILE:HG12	2.12	0.48
1:L:437:VAL:O	1:L:438:THR:HB	2.13	0.48
1:M:203:HIS:O	1:M:206:LYS:HB2	2.13	0.48
1:M:393:VAL:HG12	1:M:394:THR:N	2.27	0.48
1:M:504:ASN:CB	1:M:505:PRO:CD	2.83	0.48
1:O:393:VAL:HG12	1:O:394:THR:N	2.27	0.48
1:O:438:THR:C	1:O:457:ILE:HG13	2.38	0.48
1:Q:191:GLN:HE21	1:Q:197:LEU:CD2	2.26	0.48
1:Q:397:GLN:CB	1:Q:520:VAL:O	2.59	0.48
1:S:327:PRO:HG3	1:T:235:VAL:O	2.14	0.48
1:T:374:PHE:CZ	1:T:386:PRO:HD3	2.48	0.48
1:A:439:THR:O	1:A:440:SER:OG	2.26	0.48
1:B:374:PHE:CZ	1:B:386:PRO:HD3	2.48	0.48
1:B:437:VAL:O	1:B:438:THR:HB	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:442:GLY:C	1:B:444:ASP:H	2.21	0.48
1:C:234:ILE:CD1	1:C:288:VAL:HB	2.44	0.48
1:C:437:VAL:O	1:C:438:THR:HB	2.13	0.48
1:C:506:THR:O	1:C:507:LYS:HD2	2.14	0.48
1:D:251:TYR:HB2	1:L:328:PRO:O	2.14	0.48
1:E:201:LEU:HD22	1:E:320:PHE:CE2	2.43	0.48
1:E:222:SER:N	1:L:230:LYS:HE2	2.29	0.48
1:E:424:THR:CG2	1:E:425:ILE:N	2.76	0.48
1:E:442:GLY:C	1:E:444:ASP:H	2.21	0.48
1:E:465:SER:HA	1:E:532:TYR:CE1	2.48	0.48
1:F:438:THR:C	1:F:457:ILE:HG13	2.38	0.48
1:H:437:VAL:O	1:H:438:THR:HB	2.13	0.48
1:I:191:GLN:HE21	1:I:197:LEU:CD2	2.26	0.48
1:I:506:THR:O	1:I:507:LYS:HD2	2.14	0.48
1:K:246:THR:O	1:K:248:MET:N	2.47	0.48
1:K:397:GLN:HA	1:K:403:LEU:HD21	1.96	0.48
1:L:442:GLY:C	1:L:444:ASP:H	2.21	0.48
1:M:218:ARG:CG	1:M:265:VAL:HG22	2.42	0.48
1:M:246:THR:O	1:M:248:MET:N	2.47	0.48
1:M:274:THR:C	1:Q:275:LEU:CD1	2.66	0.48
1:M:618:TRP:CE2	1:M:660:ASN:HB2	2.49	0.48
1:N:246:THR:O	1:N:248:MET:N	2.47	0.48
1:N:439:THR:HG1	1:N:457:ILE:H	1.59	0.48
1:N:607:ALA:HA	1:N:649:GLY:O	2.14	0.48
1:P:506:THR:O	1:P:507:LYS:HD2	2.14	0.48
1:Q:393:VAL:HG12	1:Q:394:THR:N	2.27	0.48
1:R:346:SER:HB2	1:R:643:LEU:CB	2.42	0.48
1:R:437:VAL:O	1:R:438:THR:HB	2.13	0.48
1:S:191:GLN:HE21	1:S:197:LEU:CD2	2.26	0.48
1:S:618:TRP:CE2	1:S:660:ASN:HB2	2.48	0.48
1:A:451:TYR:HB3	1:A:457:ILE:HA	1.96	0.48
1:B:191:GLN:HE21	1:B:197:LEU:CD2	2.26	0.48
1:B:647:TYR:CD1	1:B:647:TYR:N	2.78	0.48
1:C:352:ASN:HD22	1:C:586:GLN:N	2.05	0.48
1:C:439:THR:O	1:C:440:SER:OG	2.26	0.48
1:C:532:TYR:HE2	1:C:535:ILE:CD1	2.24	0.48
1:C:577:ILE:O	1:C:578:ARG:CG	2.57	0.48
1:D:298:PRO:HB2	1:D:299:TYR:CE1	2.49	0.48
1:D:374:PHE:CZ	1:D:386:PRO:HD3	2.48	0.48
1:D:402:LYS:HD3	1:D:511:PHE:CE2	2.34	0.48
1:D:442:GLY:C	1:D:444:ASP:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:230:LYS:NZ	1:O:220:SER:OG	2.39	0.48
1:E:438:THR:C	1:E:457:ILE:HG13	2.38	0.48
1:F:506:THR:O	1:F:507:LYS:HD2	2.14	0.48
1:G:393:VAL:HG12	1:G:394:THR:N	2.27	0.48
1:H:171:SER:O	1:H:314:THR:N	2.43	0.48
1:H:222:SER:N	1:O:230:LYS:HE2	2.29	0.48
1:H:618:TRP:CE2	1:H:660:ASN:HB2	2.48	0.48
1:J:222:SER:N	1:P:230:LYS:HE2	2.29	0.48
1:K:203:HIS:O	1:K:206:LYS:HB2	2.13	0.48
1:K:234:ILE:CD1	1:K:288:VAL:HB	2.44	0.48
1:M:251:TYR:HB2	1:Q:328:PRO:O	2.14	0.48
1:N:374:PHE:CZ	1:N:386:PRO:HD3	2.48	0.48
1:O:246:THR:O	1:O:248:MET:N	2.47	0.48
1:O:439:THR:OG1	1:O:457:ILE:N	2.41	0.48
1:O:506:THR:O	1:O:507:LYS:HD2	2.14	0.48
1:O:532:TYR:HE2	1:O:535:ILE:CD1	2.24	0.48
1:P:222:SER:N	1:Q:230:LYS:HE2	2.29	0.48
1:P:298:PRO:HB2	1:P:299:TYR:CE1	2.49	0.48
1:P:618:TRP:CE2	1:P:660:ASN:HB2	2.48	0.48
1:Q:246:THR:O	1:Q:248:MET:N	2.47	0.48
1:Q:402:LYS:HD2	1:Q:511:PHE:CE2	2.47	0.48
1:Q:506:THR:O	1:Q:507:LYS:HD2	2.14	0.48
1:R:438:THR:C	1:R:457:ILE:HG13	2.38	0.48
1:S:209:VAL:HG23	1:S:324:LEU:HB2	1.94	0.48
1:T:396:SER:O	1:T:403:LEU:CD2	2.62	0.48
1:A:424:THR:CG2	1:A:425:ILE:N	2.76	0.48
1:C:246:THR:O	1:C:248:MET:N	2.47	0.48
1:C:298:PRO:HB2	1:C:299:TYR:CE1	2.49	0.48
1:D:230:LYS:NZ	1:S:220:SER:OG	2.39	0.48
1:D:235:VAL:O	1:L:327:PRO:HG3	2.14	0.48
1:D:437:VAL:CG1	1:D:438:THR:N	2.34	0.48
1:D:607:ALA:HA	1:D:649:GLY:O	2.14	0.48
1:D:609:TYR:CE1	1:D:647:TYR:HB3	2.49	0.48
1:E:166:TRP:HA	1:E:169:PHE:HE2	1.78	0.48
1:E:298:PRO:HB2	1:E:299:TYR:CE1	2.49	0.48
1:E:396:SER:O	1:E:403:LEU:CD2	2.62	0.48
1:G:426:PRO:O	1:G:427:SER:HB3	2.14	0.48
1:H:396:SER:O	1:H:403:LEU:CD2	2.62	0.48
1:I:426:PRO:O	1:I:427:SER:HB3	2.14	0.48
1:I:451:TYR:H	1:I:458:VAL:CB	2.16	0.48
1:J:166:TRP:HA	1:J:169:PHE:HE2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:424:THR:CG2	1:J:425:ILE:N	2.76	0.48
1:J:426:PRO:O	1:J:427:SER:HB3	2.14	0.48
1:K:396:SER:O	1:K:403:LEU:CD2	2.62	0.48
1:M:396:SER:O	1:M:403:LEU:CD2	2.62	0.48
1:M:437:VAL:CG1	1:M:439:THR:HA	2.44	0.48
1:M:442:GLY:C	1:M:444:ASP:H	2.21	0.48
1:N:396:SER:O	1:N:403:LEU:CD2	2.62	0.48
1:O:396:SER:O	1:O:403:LEU:CD2	2.62	0.48
1:P:358:ILE:HG22	1:P:360:ASP:H	1.77	0.48
1:P:442:GLY:C	1:P:444:ASP:H	2.21	0.48
1:P:451:TYR:HB3	1:P:457:ILE:HA	1.96	0.48
1:P:504:ASN:CB	1:P:505:PRO:CD	2.83	0.48
1:Q:171:SER:O	1:Q:314:THR:N	2.43	0.48
1:Q:609:TYR:CE1	1:Q:647:TYR:HB3	2.49	0.48
1:R:506:THR:O	1:R:507:LYS:HD2	2.14	0.48
1:S:396:SER:O	1:S:403:LEU:CD2	2.62	0.48
1:S:607:ALA:HA	1:S:649:GLY:O	2.14	0.48
1:T:191:GLN:HE21	1:T:197:LEU:CD2	2.26	0.48
1:T:438:THR:C	1:T:457:ILE:HG13	2.38	0.48
1:T:607:ALA:HA	1:T:649:GLY:O	2.14	0.48
1:A:203:HIS:O	1:A:206:LYS:HB2	2.13	0.48
1:A:230:LYS:HE2	1:B:222:SER:N	2.29	0.48
1:A:328:PRO:O	1:L:251:TYR:HB2	2.14	0.48
1:A:352:ASN:HD22	1:A:586:GLN:N	2.05	0.48
1:A:420:TRP:O	1:A:421:PRO:O	2.32	0.48
1:A:506:THR:O	1:A:507:LYS:HD2	2.14	0.48
1:B:209:VAL:HG23	1:B:324:LEU:HB2	1.94	0.48
1:B:270:ASP:OD2	1:B:272:ARG:NH1	2.47	0.48
1:B:327:PRO:HG3	1:F:235:VAL:O	2.14	0.48
1:B:328:PRO:O	1:F:251:TYR:HB2	2.14	0.48
1:B:397:GLN:HA	1:B:403:LEU:HD21	1.96	0.48
1:C:222:SER:N	1:S:230:LYS:HE2	2.29	0.48
1:D:396:SER:O	1:D:403:LEU:CD2	2.62	0.48
1:E:246:THR:O	1:E:248:MET:N	2.47	0.48
1:F:222:SER:N	1:K:230:LYS:HE2	2.29	0.48
1:F:426:PRO:O	1:F:427:SER:HB3	2.14	0.48
1:G:397:GLN:HA	1:G:403:LEU:HD21	1.96	0.48
1:G:506:THR:O	1:G:507:LYS:HD2	2.14	0.48
1:H:201:LEU:HD22	1:H:320:PHE:CE2	2.43	0.48
1:H:230:LYS:HE2	1:T:222:SER:N	2.29	0.48
1:H:397:GLN:HA	1:H:403:LEU:HD21	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:374:PHE:CZ	1:I:386:PRO:HD3	2.48	0.48
1:I:451:TYR:HB3	1:I:457:ILE:HA	1.96	0.48
1:J:203:HIS:O	1:J:206:LYS:HB2	2.13	0.48
1:J:234:ILE:CD1	1:J:288:VAL:HB	2.44	0.48
1:J:298:PRO:HB2	1:J:299:TYR:CE1	2.49	0.48
1:J:396:SER:O	1:J:403:LEU:CD2	2.62	0.48
1:K:218:ARG:CG	1:K:265:VAL:HG22	2.43	0.48
1:K:270:ASP:OD2	1:K:272:ARG:NH1	2.47	0.48
1:K:438:THR:C	1:K:457:ILE:HG13	2.38	0.48
1:K:442:GLY:C	1:K:444:ASP:H	2.21	0.48
1:L:203:HIS:O	1:L:206:LYS:HB2	2.13	0.48
1:L:385:THR:O	1:L:387:ARG:N	2.41	0.48
1:L:451:TYR:C	1:L:453:SER:H	2.22	0.48
1:L:607:ALA:HA	1:L:649:GLY:O	2.14	0.48
1:M:230:LYS:HE2	1:R:222:SER:N	2.29	0.48
1:M:270:ASP:OD2	1:M:272:ARG:NH1	2.47	0.48
1:M:426:PRO:O	1:M:427:SER:HB3	2.14	0.48
1:N:397:GLN:HA	1:N:403:LEU:HD21	1.96	0.48
1:N:618:TRP:CE2	1:N:660:ASN:HB2	2.48	0.48
1:O:374:PHE:CZ	1:O:386:PRO:HD3	2.48	0.48
1:O:609:TYR:CE1	1:O:647:TYR:HB3	2.49	0.48
1:P:246:THR:O	1:P:248:MET:N	2.47	0.48
1:P:437:VAL:O	1:P:438:THR:HB	2.13	0.48
1:P:607:ALA:HA	1:P:649:GLY:O	2.14	0.48
1:Q:234:ILE:CD1	1:Q:288:VAL:HB	2.44	0.48
1:R:234:ILE:CD1	1:R:288:VAL:HB	2.44	0.48
1:R:396:SER:O	1:R:403:LEU:CD2	2.62	0.48
1:R:437:VAL:CG1	1:R:439:THR:HA	2.44	0.48
1:R:526:THR:HG22	1:R:527:LEU:H	1.78	0.48
1:S:393:VAL:HG12	1:S:394:THR:N	2.27	0.48
1:S:397:GLN:HA	1:S:403:LEU:HD21	1.96	0.48
1:T:618:TRP:CE2	1:T:660:ASN:HB2	2.49	0.48
1:A:437:VAL:CG1	1:A:439:THR:HA	2.44	0.48
1:B:251:TYR:HD1	1:R:328:PRO:O	1.55	0.48
1:C:270:ASP:OD2	1:C:272:ARG:NH1	2.47	0.48
1:C:332:LEU:CD2	1:C:334:HIS:H	2.26	0.48
1:C:396:SER:O	1:C:403:LEU:CD2	2.62	0.48
1:C:397:GLN:HA	1:C:403:LEU:HD21	1.96	0.48
1:D:451:TYR:HB3	1:D:457:ILE:HA	1.96	0.48
1:D:618:TRP:CE2	1:D:660:ASN:HB2	2.48	0.48
1:E:451:TYR:C	1:E:453:SER:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:280:SER:OG	1:F:334:HIS:CD2	2.42	0.48
1:F:451:TYR:HB3	1:F:457:ILE:HA	1.96	0.48
1:H:246:THR:O	1:H:248:MET:N	2.47	0.48
1:H:437:VAL:CG1	1:H:439:THR:HA	2.44	0.48
1:I:298:PRO:HB2	1:I:299:TYR:CE1	2.49	0.48
1:J:602:PRO:CG	1:J:605:SER:CB	2.73	0.48
1:L:298:PRO:HB2	1:L:299:TYR:CE1	2.49	0.48
1:M:346:SER:HB2	1:M:643:LEU:CB	2.42	0.48
1:M:438:THR:C	1:M:457:ILE:HG13	2.38	0.48
1:M:506:THR:O	1:M:507:LYS:HD2	2.14	0.48
1:M:609:TYR:CE1	1:M:647:TYR:HB3	2.49	0.48
1:O:397:GLN:HA	1:O:403:LEU:HD21	1.96	0.48
1:O:437:VAL:CG1	1:O:439:THR:HA	2.44	0.48
1:P:526:THR:HG22	1:P:527:LEU:H	1.78	0.48
1:P:609:TYR:CE1	1:P:647:TYR:HB3	2.49	0.48
1:Q:426:PRO:O	1:Q:427:SER:HB3	2.14	0.48
1:Q:437:VAL:CG1	1:Q:439:THR:HA	2.44	0.48
1:Q:647:TYR:CD1	1:Q:647:TYR:N	2.78	0.48
1:R:416:ILE:H	1:R:416:ILE:CD1	2.10	0.48
1:S:416:ILE:H	1:S:416:ILE:CD1	2.10	0.48
1:T:393:VAL:HG12	1:T:394:THR:N	2.27	0.48
1:T:609:TYR:CE1	1:T:647:TYR:HB3	2.49	0.48
1:A:403:LEU:CG	1:A:514:ASN:HD21	2.27	0.47
1:A:442:GLY:C	1:A:444:ASP:H	2.21	0.47
1:A:526:THR:HG22	1:A:527:LEU:H	1.78	0.47
1:B:618:TRP:CE2	1:B:660:ASN:HB2	2.48	0.47
1:C:203:HIS:O	1:C:206:LYS:HB2	2.13	0.47
1:C:437:VAL:CG1	1:C:439:THR:HA	2.44	0.47
1:D:222:SER:N	1:F:230:LYS:HE2	2.29	0.47
1:D:230:LYS:HE2	1:S:222:SER:N	2.29	0.47
1:D:420:TRP:O	1:D:421:PRO:O	2.32	0.47
1:D:437:VAL:CG1	1:D:439:THR:HA	2.44	0.47
1:E:270:ASP:OD2	1:E:272:ARG:NH1	2.47	0.47
1:E:332:LEU:CD2	1:E:334:HIS:H	2.26	0.47
1:E:437:VAL:O	1:E:438:THR:HB	2.13	0.47
1:F:270:ASP:OD2	1:F:272:ARG:NH1	2.47	0.47
1:F:442:GLY:C	1:F:444:ASP:H	2.21	0.47
1:G:234:ILE:CD1	1:G:288:VAL:HB	2.44	0.47
1:I:474:ARG:N	1:I:524:ASP:HA	2.13	0.47
1:I:607:ALA:HA	1:I:649:GLY:O	2.14	0.47
1:J:451:TYR:HB3	1:J:457:ILE:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:506:THR:O	1:J:507:LYS:HD2	2.14	0.47
1:K:439:THR:CG2	1:K:457:ILE:CG1	2.91	0.47
1:K:451:TYR:C	1:K:453:SER:H	2.22	0.47
1:K:609:TYR:CE1	1:K:647:TYR:HB3	2.49	0.47
1:L:246:THR:O	1:L:248:MET:N	2.47	0.47
1:L:438:THR:C	1:L:457:ILE:HG13	2.38	0.47
1:L:609:TYR:CE1	1:L:647:TYR:HB3	2.49	0.47
1:M:362:VAL:HB	1:M:566:PHE:HB2	1.96	0.47
1:M:402:LYS:HD2	1:M:511:PHE:CE2	2.47	0.47
1:O:234:ILE:CD1	1:O:288:VAL:HB	2.44	0.47
1:P:162:VAL:C	1:P:164:SER:H	2.22	0.47
1:P:201:LEU:HD22	1:P:320:PHE:CE2	2.43	0.47
1:P:280:SER:HG	1:P:334:HIS:HE2	0.50	0.47
1:Q:607:ALA:HA	1:Q:649:GLY:O	2.14	0.47
1:R:246:THR:O	1:R:248:MET:N	2.47	0.47
1:R:416:ILE:CG1	1:R:503:ILE:CD1	2.88	0.47
1:R:426:PRO:O	1:R:427:SER:HB3	2.14	0.47
1:S:246:THR:O	1:S:248:MET:N	2.47	0.47
1:S:297:ASN:ND2	1:S:298:PRO:N	2.60	0.47
1:T:203:HIS:O	1:T:206:LYS:HB2	2.13	0.47
1:T:420:TRP:O	1:T:421:PRO:O	2.32	0.47
1:T:506:THR:O	1:T:507:LYS:HD2	2.14	0.47
1:A:234:ILE:CD1	1:A:288:VAL:HB	2.44	0.47
1:A:251:TYR:HB2	1:D:328:PRO:O	2.14	0.47
1:A:328:PRO:O	1:L:251:TYR:HD1	1.55	0.47
1:B:396:SER:O	1:B:403:LEU:CD2	2.62	0.47
1:C:218:ARG:CG	1:C:265:VAL:HG22	2.43	0.47
1:C:230:LYS:HE2	1:K:222:SER:N	2.29	0.47
1:C:420:TRP:O	1:C:421:PRO:O	2.32	0.47
1:C:451:TYR:HB3	1:C:457:ILE:HA	1.96	0.47
1:C:605:SER:CB	1:C:650:ILE:HG23	2.27	0.47
1:C:607:ALA:HA	1:C:649:GLY:O	2.14	0.47
1:D:234:ILE:CD1	1:D:288:VAL:HB	2.44	0.47
1:D:270:ASP:OD2	1:D:272:ARG:NH1	2.47	0.47
1:D:332:LEU:CD2	1:D:334:HIS:H	2.26	0.47
1:D:397:GLN:HA	1:D:403:LEU:HD21	1.96	0.47
1:D:504:ASN:CB	1:D:505:PRO:CD	2.83	0.47
1:D:506:THR:O	1:D:507:LYS:HD2	2.14	0.47
1:D:552:VAL:HG12	1:D:553:LEU:H	1.80	0.47
1:F:298:PRO:HB2	1:F:299:TYR:CE1	2.49	0.47
1:F:324:LEU:HD13	1:R:271:LEU:HB3	1.88	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:328:PRO:O	1:R:251:TYR:HB2	2.14	0.47
1:F:396:SER:O	1:F:403:LEU:CD2	2.62	0.47
1:G:552:VAL:HG12	1:G:553:LEU:H	1.79	0.47
1:G:609:TYR:CE1	1:G:647:TYR:HB3	2.49	0.47
1:H:270:ASP:OD2	1:H:272:ARG:NH1	2.47	0.47
1:I:246:THR:O	1:I:248:MET:N	2.47	0.47
1:I:362:VAL:HB	1:I:566:PHE:HB2	1.97	0.47
1:I:420:TRP:O	1:I:421:PRO:O	2.32	0.47
1:J:393:VAL:HG12	1:J:394:THR:N	2.27	0.47
1:J:403:LEU:CG	1:J:514:ASN:HD21	2.27	0.47
1:K:506:THR:O	1:K:507:LYS:HD2	2.14	0.47
1:K:577:ILE:O	1:K:578:ARG:CG	2.57	0.47
1:K:607:ALA:HA	1:K:649:GLY:O	2.14	0.47
1:K:618:TRP:CE2	1:K:660:ASN:HB2	2.48	0.47
1:L:396:SER:O	1:L:403:LEU:CD2	2.62	0.47
1:L:402:LYS:HD3	1:L:511:PHE:CE2	2.34	0.47
1:L:426:PRO:O	1:L:427:SER:HB3	2.14	0.47
1:L:451:TYR:HB3	1:L:457:ILE:HA	1.96	0.47
1:M:235:VAL:O	1:Q:327:PRO:HG3	2.13	0.47
1:N:488:THR:OG1	1:N:489:THR:N	2.44	0.47
1:O:270:ASP:OD2	1:O:272:ARG:NH1	2.47	0.47
1:O:403:LEU:CG	1:O:514:ASN:HD21	2.27	0.47
1:O:420:TRP:O	1:O:421:PRO:O	2.32	0.47
1:P:396:SER:O	1:P:403:LEU:CD2	2.62	0.47
1:P:451:TYR:C	1:P:453:SER:H	2.22	0.47
1:Q:298:PRO:HB2	1:Q:299:TYR:CE1	2.49	0.47
1:R:166:TRP:C	1:R:168:ALA:N	2.70	0.47
1:R:451:TYR:HB3	1:R:457:ILE:HA	1.96	0.47
1:R:552:VAL:HG12	1:R:553:LEU:H	1.80	0.47
1:S:166:TRP:C	1:S:168:ALA:N	2.70	0.47
1:S:442:GLY:C	1:S:444:ASP:H	2.21	0.47
1:T:442:GLY:C	1:T:444:ASP:H	2.21	0.47
1:A:162:VAL:C	1:A:164:SER:H	2.22	0.47
1:A:222:SER:N	1:J:230:LYS:HE2	2.29	0.47
1:A:397:GLN:HA	1:A:403:LEU:HD21	1.96	0.47
1:A:577:ILE:O	1:A:578:ARG:CG	2.57	0.47
1:B:506:THR:O	1:B:507:LYS:HD2	2.14	0.47
1:C:438:THR:C	1:C:457:ILE:HG13	2.38	0.47
1:E:162:VAL:C	1:E:164:SER:H	2.22	0.47
1:F:246:THR:O	1:F:248:MET:N	2.47	0.47
1:G:201:LEU:HD22	1:G:320:PHE:CE2	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:420:TRP:O	1:G:421:PRO:O	2.32	0.47
1:G:437:VAL:O	1:G:438:THR:HB	2.13	0.47
1:G:504:ASN:CB	1:G:505:PRO:CD	2.83	0.47
1:H:607:ALA:HA	1:H:649:GLY:O	2.14	0.47
1:K:426:PRO:O	1:K:427:SER:HB3	2.14	0.47
1:M:332:LEU:CD2	1:M:334:HIS:H	2.26	0.47
1:N:437:VAL:O	1:N:438:THR:HB	2.13	0.47
1:N:451:TYR:C	1:N:453:SER:H	2.22	0.47
1:N:506:THR:O	1:N:507:LYS:HD2	2.14	0.47
1:O:298:PRO:HB2	1:O:299:TYR:CE1	2.49	0.47
1:O:385:THR:O	1:O:387:ARG:N	2.41	0.47
1:P:171:SER:O	1:P:314:THR:N	2.43	0.47
1:P:220:SER:OG	1:Q:230:LYS:NZ	2.39	0.47
1:P:426:PRO:O	1:P:427:SER:HB3	2.14	0.47
1:Q:451:TYR:HB3	1:Q:457:ILE:HA	1.96	0.47
1:R:298:PRO:HB2	1:R:299:TYR:CE1	2.49	0.47
1:R:332:LEU:CD2	1:R:334:HIS:H	2.26	0.47
1:S:298:PRO:HB2	1:S:299:TYR:CE1	2.49	0.47
1:S:609:TYR:CE1	1:S:647:TYR:HB3	2.49	0.47
1:T:166:TRP:HA	1:T:169:PHE:HE2	1.78	0.47
1:A:270:ASP:OD2	1:A:272:ARG:NH1	2.47	0.47
1:A:426:PRO:O	1:A:427:SER:HB3	2.14	0.47
1:A:609:TYR:CE1	1:A:647:TYR:HB3	2.49	0.47
1:B:420:TRP:O	1:B:421:PRO:O	2.32	0.47
1:C:340:ASP:O	1:C:340:ASP:CG	2.58	0.47
1:C:618:TRP:CE2	1:C:660:ASN:HB2	2.48	0.47
1:E:451:TYR:HB3	1:E:457:ILE:HA	1.96	0.47
1:E:506:THR:O	1:E:507:LYS:HD2	2.14	0.47
1:F:552:VAL:HG12	1:F:553:LEU:H	1.80	0.47
1:G:203:HIS:O	1:G:206:LYS:HB2	2.13	0.47
1:G:385:THR:O	1:G:387:ARG:N	2.41	0.47
1:G:607:ALA:HA	1:G:649:GLY:O	2.14	0.47
1:H:203:HIS:O	1:H:206:LYS:HB2	2.13	0.47
1:H:298:PRO:HB2	1:H:299:TYR:CE1	2.49	0.47
1:H:402:LYS:HD2	1:H:511:PHE:CE2	2.47	0.47
1:H:426:PRO:O	1:H:427:SER:HB3	2.14	0.47
1:H:451:TYR:HB3	1:H:457:ILE:HA	1.96	0.47
1:H:506:THR:O	1:H:507:LYS:HD2	2.14	0.47
1:J:609:TYR:CE1	1:J:647:TYR:HB3	2.49	0.47
1:K:251:TYR:HB2	1:N:328:PRO:O	2.14	0.47
1:L:234:ILE:CD1	1:L:288:VAL:HB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:397:GLN:HA	1:L:403:LEU:HD21	1.96	0.47
1:L:506:THR:O	1:L:507:LYS:HD2	2.14	0.47
1:L:577:ILE:O	1:L:578:ARG:CG	2.57	0.47
1:M:451:TYR:HB3	1:M:457:ILE:HA	1.96	0.47
1:M:552:VAL:HG12	1:M:553:LEU:H	1.80	0.47
1:N:234:ILE:CD1	1:N:288:VAL:HB	2.44	0.47
1:N:484:THR:CG2	1:N:485:ALA:H	2.27	0.47
1:N:526:THR:HG22	1:N:527:LEU:H	1.78	0.47
1:N:552:VAL:HG12	1:N:553:LEU:H	1.79	0.47
1:O:607:ALA:HA	1:O:649:GLY:O	2.14	0.47
1:P:270:ASP:OD2	1:P:272:ARG:NH1	2.47	0.47
1:P:420:TRP:O	1:P:421:PRO:O	2.32	0.47
1:Q:403:LEU:CG	1:Q:514:ASN:HD21	2.28	0.47
1:Q:451:TYR:C	1:Q:453:SER:H	2.22	0.47
1:R:609:TYR:CE1	1:R:647:TYR:HB3	2.49	0.47
1:A:396:SER:O	1:A:403:LEU:CD2	2.62	0.47
1:C:220:SER:OG	1:S:230:LYS:NZ	2.39	0.47
1:C:362:VAL:HB	1:C:566:PHE:HB2	1.97	0.47
1:D:199:PRO:HG2	1:D:200:TYR:H	1.80	0.47
1:D:426:PRO:O	1:D:427:SER:HB3	2.14	0.47
1:E:199:PRO:HG2	1:E:200:TYR:H	1.80	0.47
1:E:230:LYS:HE2	1:O:222:SER:N	2.29	0.47
1:E:425:ILE:HD13	1:E:425:ILE:H	1.80	0.47
1:F:218:ARG:CG	1:F:265:VAL:HG22	2.42	0.47
1:F:275:LEU:HG	1:R:275:LEU:HG	1.55	0.47
1:F:361:PHE:HE1	1:F:619:PHE:HZ	1.63	0.47
1:F:393:VAL:HG12	1:F:394:THR:N	2.27	0.47
1:F:420:TRP:O	1:F:421:PRO:O	2.32	0.47
1:F:451:TYR:H	1:F:458:VAL:CB	2.16	0.47
1:F:540:ILE:HB	1:F:582:VAL:CG2	2.45	0.47
1:F:607:ALA:HA	1:F:649:GLY:O	2.14	0.47
1:G:162:VAL:C	1:G:164:SER:H	2.22	0.47
1:G:403:LEU:CG	1:G:514:ASN:HD21	2.28	0.47
1:G:451:TYR:C	1:G:453:SER:H	2.22	0.47
1:I:166:TRP:HA	1:I:169:PHE:HE2	1.78	0.47
1:I:234:ILE:CD1	1:I:288:VAL:HB	2.44	0.47
1:J:246:THR:O	1:J:248:MET:N	2.47	0.47
1:J:425:ILE:HD13	1:J:425:ILE:H	1.80	0.47
1:J:607:ALA:HA	1:J:649:GLY:O	2.14	0.47
1:K:420:TRP:O	1:K:421:PRO:O	2.32	0.47
1:L:222:SER:N	1:T:230:LYS:HE2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:166:TRP:HA	1:M:169:PHE:HE2	1.78	0.47
1:N:199:PRO:HG2	1:N:200:TYR:H	1.80	0.47
1:N:222:SER:N	1:R:230:LYS:HE2	2.29	0.47
1:O:471:ALA:HB2	1:O:527:LEU:CB	2.39	0.47
1:O:540:ILE:HB	1:O:582:VAL:CG2	2.45	0.47
1:P:199:PRO:HG2	1:P:200:TYR:H	1.80	0.47
1:P:234:ILE:CD1	1:P:288:VAL:HB	2.44	0.47
1:P:297:ASN:ND2	1:P:298:PRO:N	2.60	0.47
1:P:437:VAL:CG1	1:P:439:THR:HA	2.44	0.47
1:Q:340:ASP:O	1:Q:340:ASP:CG	2.58	0.47
1:R:179:SER:N	1:R:182:GLU:OE2	2.43	0.47
1:S:270:ASP:OD2	1:S:272:ARG:NH1	2.47	0.47
1:S:506:THR:O	1:S:507:LYS:HD2	2.14	0.47
1:S:552:VAL:HG12	1:S:553:LEU:H	1.80	0.47
1:A:332:LEU:CD2	1:A:334:HIS:H	2.26	0.47
1:A:618:TRP:CE2	1:A:660:ASN:HB2	2.49	0.47
1:B:230:LYS:HE2	1:Q:222:SER:N	2.29	0.47
1:B:298:PRO:HB2	1:B:299:TYR:CE1	2.49	0.47
1:B:609:TYR:CE1	1:B:647:TYR:HB3	2.49	0.47
1:C:552:VAL:HG12	1:C:553:LEU:H	1.79	0.47
1:D:220:SER:OG	1:F:230:LYS:NZ	2.39	0.47
1:D:425:ILE:HD13	1:D:425:ILE:H	1.80	0.47
1:D:437:VAL:O	1:D:438:THR:HB	2.13	0.47
1:E:328:PRO:O	1:J:251:TYR:HB2	2.14	0.47
1:E:340:ASP:O	1:E:340:ASP:CG	2.58	0.47
1:E:420:TRP:O	1:E:421:PRO:O	2.32	0.47
1:E:609:TYR:CE1	1:E:647:TYR:HB3	2.49	0.47
1:F:171:SER:O	1:F:314:THR:N	2.43	0.47
1:G:222:SER:N	1:N:230:LYS:HE2	2.29	0.47
1:H:482:SER:OG	1:H:483:ASN:N	2.39	0.47
1:H:530:LEU:HD12	1:H:530:LEU:N	2.30	0.47
1:H:552:VAL:HG12	1:H:553:LEU:H	1.80	0.47
1:I:162:VAL:C	1:I:164:SER:H	2.22	0.47
1:I:451:TYR:C	1:I:453:SER:H	2.22	0.47
1:J:340:ASP:O	1:J:340:ASP:CG	2.58	0.47
1:J:437:VAL:CG1	1:J:439:THR:HA	2.44	0.47
1:J:526:THR:HG22	1:J:527:LEU:H	1.78	0.47
1:J:530:LEU:HD12	1:J:530:LEU:N	2.30	0.47
1:K:298:PRO:HB2	1:K:299:TYR:CE1	2.49	0.47
1:K:439:THR:HG23	1:K:457:ILE:HG12	1.94	0.47
1:K:552:VAL:HG12	1:K:553:LEU:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:403:LEU:CG	1:L:514:ASN:HD21	2.27	0.47
1:M:201:LEU:HD22	1:M:320:PHE:CE2	2.43	0.47
1:M:340:ASP:O	1:M:340:ASP:CG	2.58	0.47
1:M:397:GLN:HA	1:M:403:LEU:HD21	1.96	0.47
1:M:420:TRP:O	1:M:421:PRO:O	2.32	0.47
1:N:162:VAL:C	1:N:164:SER:H	2.22	0.47
1:N:298:PRO:HB2	1:N:299:TYR:CE1	2.49	0.47
1:N:346:SER:HB2	1:N:643:LEU:CB	2.42	0.47
1:N:426:PRO:O	1:N:427:SER:HB3	2.14	0.47
1:O:201:LEU:HD22	1:O:320:PHE:CE2	2.43	0.47
1:O:332:LEU:CD2	1:O:334:HIS:H	2.26	0.47
1:O:426:PRO:O	1:O:427:SER:HB3	2.14	0.47
1:P:179:SER:N	1:P:182:GLU:OE2	2.43	0.47
1:P:425:ILE:HD13	1:P:425:ILE:H	1.80	0.47
1:P:555:GLU:C	1:P:556:THR:CG2	2.74	0.47
1:Q:270:ASP:OD2	1:Q:272:ARG:NH1	2.47	0.47
1:Q:396:SER:O	1:Q:403:LEU:CD2	2.62	0.47
1:Q:397:GLN:HA	1:Q:403:LEU:HD21	1.96	0.47
1:R:270:ASP:OD2	1:R:272:ARG:NH1	2.47	0.47
1:R:403:LEU:CG	1:R:514:ASN:HD21	2.27	0.47
1:T:234:ILE:CD1	1:T:288:VAL:HB	2.44	0.47
1:T:362:VAL:HB	1:T:566:PHE:HB2	1.96	0.47
1:T:425:ILE:HD13	1:T:425:ILE:H	1.80	0.47
1:T:552:VAL:HG12	1:T:553:LEU:H	1.79	0.47
1:A:298:PRO:HB2	1:A:299:TYR:CE1	2.49	0.47
1:A:340:ASP:O	1:A:340:ASP:CG	2.58	0.47
1:A:362:VAL:HB	1:A:566:PHE:HB2	1.97	0.47
1:A:530:LEU:HD12	1:A:530:LEU:N	2.30	0.47
1:A:607:ALA:HA	1:A:649:GLY:O	2.14	0.47
1:B:199:PRO:HG2	1:B:200:TYR:H	1.80	0.47
1:B:403:LEU:CG	1:B:514:ASN:HD21	2.27	0.47
1:B:451:TYR:H	1:B:458:VAL:CB	2.16	0.47
1:B:530:LEU:HD12	1:B:530:LEU:N	2.30	0.47
1:B:577:ILE:O	1:B:578:ARG:CG	2.57	0.47
1:C:201:LEU:HD22	1:C:320:PHE:CE2	2.43	0.47
1:C:403:LEU:CG	1:C:514:ASN:HD21	2.27	0.47
1:C:425:ILE:HD13	1:C:425:ILE:H	1.80	0.47
1:C:609:TYR:CE1	1:C:647:TYR:HB3	2.49	0.47
1:D:246:THR:O	1:D:248:MET:N	2.47	0.47
1:D:385:THR:CG2	1:D:386:PRO:HD2	2.45	0.47
1:E:220:SER:OG	1:L:230:LYS:NZ	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:403:LEU:CG	1:E:514:ASN:HD21	2.27	0.47
1:E:437:VAL:CG1	1:E:439:THR:HA	2.44	0.47
1:E:607:ALA:HA	1:E:649:GLY:O	2.14	0.47
1:F:166:TRP:C	1:F:168:ALA:N	2.71	0.47
1:F:397:GLN:HA	1:F:403:LEU:HD21	1.96	0.47
1:F:451:TYR:C	1:F:453:SER:H	2.22	0.47
1:F:577:ILE:O	1:F:578:ARG:CG	2.57	0.47
1:F:602:PRO:CG	1:F:605:SER:CB	2.73	0.47
1:G:246:THR:O	1:G:248:MET:N	2.47	0.47
1:G:362:VAL:HB	1:G:566:PHE:HB2	1.97	0.47
1:G:396:SER:O	1:G:403:LEU:CD2	2.62	0.47
1:H:199:PRO:HG2	1:H:200:TYR:H	1.80	0.47
1:H:340:ASP:CG	1:H:340:ASP:O	2.58	0.47
1:I:396:SER:O	1:I:403:LEU:CD2	2.62	0.47
1:I:397:GLN:HA	1:I:403:LEU:HD21	1.96	0.47
1:I:402:LYS:HD2	1:I:511:PHE:CE2	2.47	0.47
1:I:403:LEU:CG	1:I:514:ASN:HD21	2.27	0.47
1:I:425:ILE:HD13	1:I:425:ILE:H	1.80	0.47
1:I:552:VAL:HG12	1:I:553:LEU:H	1.80	0.47
1:J:270:ASP:OD2	1:J:272:ARG:NH1	2.47	0.47
1:J:332:LEU:CD2	1:J:334:HIS:H	2.26	0.47
1:J:362:VAL:HB	1:J:566:PHE:HB2	1.97	0.47
1:J:437:VAL:O	1:J:438:THR:HB	2.13	0.47
1:J:439:THR:HG23	1:J:457:ILE:HG12	1.94	0.47
1:K:210:ALA:HB3	1:K:324:LEU:N	2.24	0.47
1:K:275:LEU:HG	1:N:275:LEU:HG	1.55	0.47
1:K:324:LEU:HD23	1:K:324:LEU:HA	1.73	0.47
1:K:361:PHE:HE1	1:K:619:PHE:HZ	1.63	0.47
1:K:402:LYS:HD2	1:K:511:PHE:CE2	2.47	0.47
1:K:416:ILE:H	1:K:416:ILE:CD1	2.10	0.47
1:L:361:PHE:HE1	1:L:619:PHE:HZ	1.63	0.47
1:L:362:VAL:HB	1:L:566:PHE:HB2	1.97	0.47
1:L:437:VAL:CG1	1:L:439:THR:HA	2.44	0.47
1:L:540:ILE:HB	1:L:582:VAL:CG2	2.45	0.47
1:L:618:TRP:NE1	1:L:660:ASN:HB2	2.30	0.47
1:M:403:LEU:CG	1:M:514:ASN:HD21	2.27	0.47
1:M:484:THR:CG2	1:M:485:ALA:H	2.27	0.47
1:N:270:ASP:OD2	1:N:272:ARG:NH1	2.47	0.47
1:N:297:ASN:ND2	1:N:298:PRO:N	2.60	0.47
1:N:540:ILE:HB	1:N:582:VAL:CG2	2.45	0.47
1:N:618:TRP:NE1	1:N:660:ASN:HB2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:340:ASP:O	1:O:340:ASP:CG	2.58	0.47
1:O:631:VAL:HG12	1:O:632:GLY:N	2.30	0.47
1:P:618:TRP:NE1	1:P:660:ASN:HB2	2.30	0.47
1:Q:199:PRO:HG2	1:Q:200:TYR:H	1.80	0.47
1:R:340:ASP:O	1:R:340:ASP:CG	2.58	0.47
1:R:361:PHE:HE1	1:R:619:PHE:HZ	1.63	0.47
1:R:451:TYR:C	1:R:453:SER:H	2.22	0.47
1:R:474:ARG:O	1:R:475:ALA:CB	2.63	0.47
1:R:607:ALA:HA	1:R:649:GLY:O	2.14	0.47
1:R:618:TRP:NE1	1:R:660:ASN:HB2	2.30	0.47
1:S:362:VAL:HB	1:S:566:PHE:HB2	1.97	0.47
1:S:403:LEU:CG	1:S:514:ASN:HD21	2.28	0.47
1:S:426:PRO:O	1:S:427:SER:HB3	2.14	0.47
1:S:437:VAL:CG1	1:S:439:THR:HA	2.44	0.47
1:T:162:VAL:C	1:T:164:SER:H	2.22	0.47
1:T:270:ASP:OD2	1:T:272:ARG:NH1	2.47	0.47
1:T:340:ASP:O	1:T:340:ASP:CG	2.58	0.47
1:T:451:TYR:HB3	1:T:457:ILE:HA	1.96	0.47
1:T:540:ILE:HB	1:T:582:VAL:CG2	2.45	0.47
1:A:171:SER:O	1:A:314:THR:N	2.43	0.47
1:A:346:SER:HB2	1:A:643:LEU:CB	2.42	0.47
1:B:246:THR:O	1:B:248:MET:N	2.47	0.47
1:B:251:TYR:HB2	1:R:328:PRO:O	2.14	0.47
1:B:424:THR:HG1	1:B:489:THR:HG23	1.76	0.47
1:C:346:SER:HB2	1:C:643:LEU:CB	2.42	0.47
1:D:362:VAL:HB	1:D:566:PHE:HB2	1.96	0.47
1:D:540:ILE:HB	1:D:582:VAL:CG2	2.45	0.47
1:E:618:TRP:NE1	1:E:660:ASN:HB2	2.30	0.47
1:F:403:LEU:CG	1:F:514:ASN:HD21	2.27	0.47
1:F:609:TYR:CE1	1:F:647:TYR:HB3	2.49	0.47
1:F:610:ARG:HD3	1:F:620:ASP:OD1	2.15	0.47
1:G:416:ILE:CG1	1:G:503:ILE:CD1	2.88	0.47
1:H:484:THR:CG2	1:H:485:ALA:H	2.27	0.47
1:I:438:THR:C	1:I:457:ILE:HG13	2.38	0.47
1:J:199:PRO:HG2	1:J:200:TYR:H	1.80	0.47
1:J:420:TRP:O	1:J:421:PRO:O	2.32	0.47
1:J:451:TYR:C	1:J:453:SER:H	2.22	0.47
1:K:288:VAL:HG12	1:K:289:ILE:H	1.80	0.47
1:K:391:ILE:HD12	1:K:391:ILE:H	1.80	0.47
1:K:618:TRP:NE1	1:K:660:ASN:HB2	2.30	0.47
1:M:199:PRO:HG2	1:M:200:TYR:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:437:VAL:O	1:M:438:THR:HB	2.13	0.47
1:N:403:LEU:CG	1:N:514:ASN:HD21	2.28	0.47
1:N:609:TYR:CE1	1:N:647:TYR:HB3	2.49	0.47
1:O:530:LEU:HD12	1:O:530:LEU:N	2.30	0.47
1:P:210:ALA:HB3	1:P:324:LEU:N	2.24	0.47
1:P:340:ASP:CG	1:P:340:ASP:O	2.58	0.47
1:P:488:THR:OG1	1:P:489:THR:N	2.44	0.47
1:R:402:LYS:HD2	1:R:511:PHE:CE2	2.47	0.47
1:S:540:ILE:HD12	1:S:582:VAL:CG2	2.45	0.47
1:T:201:LEU:HD22	1:T:320:PHE:CE2	2.43	0.47
1:T:246:THR:O	1:T:248:MET:N	2.47	0.47
1:T:397:GLN:HA	1:T:403:LEU:HD21	1.96	0.47
1:A:179:SER:N	1:A:182:GLU:OE2	2.43	0.47
1:A:246:THR:O	1:A:248:MET:N	2.47	0.47
1:B:326:LYS:HG3	1:F:237:PRO:CG	2.34	0.47
1:B:362:VAL:HB	1:B:566:PHE:HB2	1.97	0.47
1:B:425:ILE:HD13	1:B:425:ILE:H	1.80	0.47
1:B:451:TYR:HB3	1:B:457:ILE:HA	1.96	0.47
1:B:474:ARG:HB2	1:B:524:ASP:CA	2.45	0.47
1:B:607:ALA:HA	1:B:649:GLY:O	2.14	0.47
1:C:280:SER:CB	1:C:334:HIS:CG	2.80	0.47
1:C:474:ARG:O	1:C:475:ALA:CB	2.63	0.47
1:C:601:LEU:HD12	1:C:650:ILE:HD11	1.48	0.47
1:E:297:ASN:ND2	1:E:298:PRO:N	2.60	0.47
1:G:298:PRO:HB2	1:G:299:TYR:CE1	2.49	0.47
1:G:451:TYR:H	1:G:458:VAL:CB	2.16	0.47
1:H:618:TRP:NE1	1:H:660:ASN:HB2	2.30	0.47
1:I:270:ASP:OD2	1:I:272:ARG:NH1	2.47	0.47
1:I:385:THR:CG2	1:I:386:PRO:HD2	2.45	0.47
1:I:474:ARG:O	1:I:475:ALA:CB	2.63	0.47
1:I:609:TYR:CE1	1:I:647:TYR:HB3	2.49	0.47
1:J:474:ARG:CB	1:J:523:SER:O	2.63	0.47
1:K:631:VAL:HG12	1:K:632:GLY:N	2.30	0.47
1:L:166:TRP:HA	1:L:169:PHE:HE2	1.78	0.47
1:M:298:PRO:HB2	1:M:299:TYR:CE1	2.49	0.47
1:M:618:TRP:NE1	1:M:660:ASN:HB2	2.30	0.47
1:N:425:ILE:HD13	1:N:425:ILE:H	1.80	0.47
1:N:471:ALA:HA	1:N:527:LEU:HA	1.97	0.47
1:N:569:ASN:C	1:N:570:THR:CG2	2.80	0.47
1:O:451:TYR:C	1:O:453:SER:H	2.22	0.47
1:P:403:LEU:CG	1:P:514:ASN:HD21	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:601:LEU:HD12	1:P:650:ILE:HD11	1.48	0.47
1:Q:385:THR:CG2	1:Q:386:PRO:HD2	2.45	0.47
1:Q:424:THR:CG2	1:Q:425:ILE:HD13	2.45	0.47
1:Q:471:ALA:HB2	1:Q:527:LEU:CB	2.39	0.47
1:S:420:TRP:O	1:S:421:PRO:O	2.32	0.47
1:S:425:ILE:HD13	1:S:425:ILE:H	1.80	0.47
1:T:403:LEU:CG	1:T:514:ASN:HD21	2.28	0.47
1:T:473:GLN:HA	1:T:524:ASP:CG	2.40	0.47
1:T:484:THR:CG2	1:T:485:ALA:H	2.27	0.47
1:A:474:ARG:HB2	1:A:524:ASP:CA	2.45	0.47
1:B:340:ASP:O	1:B:340:ASP:CG	2.58	0.47
1:B:540:ILE:HB	1:B:582:VAL:CG2	2.45	0.47
1:C:426:PRO:O	1:C:427:SER:HB3	2.14	0.47
1:C:530:LEU:HD12	1:C:530:LEU:N	2.30	0.47
1:C:540:ILE:HB	1:C:582:VAL:CG2	2.45	0.47
1:C:540:ILE:HD12	1:C:582:VAL:CG2	2.45	0.47
1:D:166:TRP:HA	1:D:169:PHE:HE2	1.78	0.47
1:E:402:LYS:HD2	1:E:511:PHE:CE2	2.47	0.47
1:F:199:PRO:HG2	1:F:200:TYR:H	1.80	0.47
1:G:425:ILE:HD13	1:G:425:ILE:H	1.80	0.47
1:H:424:THR:CG2	1:H:425:ILE:HD13	2.45	0.47
1:H:631:VAL:HG12	1:H:632:GLY:N	2.30	0.47
1:J:385:THR:CG2	1:J:386:PRO:HD2	2.45	0.47
1:J:439:THR:HG1	1:J:457:ILE:CG1	2.04	0.47
1:J:540:ILE:HB	1:J:582:VAL:CG2	2.45	0.47
1:J:540:ILE:HD12	1:J:582:VAL:CG2	2.45	0.47
1:K:199:PRO:HG2	1:K:200:TYR:H	1.80	0.47
1:K:340:ASP:O	1:K:340:ASP:CG	2.58	0.47
1:K:474:ARG:HB2	1:K:524:ASP:CA	2.46	0.47
1:L:270:ASP:OD2	1:L:272:ARG:NH1	2.47	0.47
1:L:385:THR:CG2	1:L:386:PRO:HD2	2.45	0.47
1:L:420:TRP:O	1:L:421:PRO:O	2.32	0.47
1:L:510:VAL:CG1	1:L:511:PHE:N	2.45	0.47
1:M:234:ILE:CD1	1:M:288:VAL:HB	2.44	0.47
1:M:519:ASP:O	1:M:519:ASP:CG	2.58	0.47
1:N:424:THR:CG2	1:N:425:ILE:HD13	2.45	0.47
1:N:610:ARG:HD3	1:N:620:ASP:OD1	2.15	0.47
1:O:425:ILE:HD13	1:O:425:ILE:H	1.80	0.47
1:O:474:ARG:CB	1:O:523:SER:O	2.63	0.47
1:O:610:ARG:HD3	1:O:620:ASP:OD1	2.15	0.47
1:Q:203:HIS:NE2	1:R:203:HIS:NE2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:540:ILE:HD12	1:Q:582:VAL:CG2	2.45	0.47
1:R:297:ASN:ND2	1:R:298:PRO:N	2.60	0.47
1:R:471:ALA:HA	1:R:527:LEU:HA	1.98	0.47
1:S:166:TRP:HA	1:S:169:PHE:HE2	1.78	0.47
1:S:474:ARG:HB2	1:S:524:ASP:CA	2.45	0.47
1:S:532:TYR:HE2	1:S:535:ILE:CD1	2.24	0.47
1:S:610:ARG:HD3	1:S:620:ASP:OD1	2.15	0.47
1:S:631:VAL:HG12	1:S:632:GLY:N	2.30	0.47
1:T:437:VAL:CG1	1:T:439:THR:HA	2.44	0.47
1:T:540:ILE:HD12	1:T:582:VAL:CG2	2.45	0.47
1:A:252:PRO:HD3	1:D:328:PRO:HD2	1.90	0.46
1:A:447:THR:O	1:A:447:THR:OG1	2.33	0.46
1:A:540:ILE:HB	1:A:582:VAL:CG2	2.45	0.46
1:B:552:VAL:HG12	1:B:553:LEU:H	1.80	0.46
1:C:473:GLN:HA	1:C:524:ASP:CG	2.40	0.46
1:D:403:LEU:CG	1:D:514:ASN:HD21	2.27	0.46
1:E:631:VAL:HG12	1:E:632:GLY:N	2.30	0.46
1:F:362:VAL:HB	1:F:566:PHE:HB2	1.97	0.46
1:F:385:THR:CG2	1:F:386:PRO:HD2	2.45	0.46
1:F:416:ILE:H	1:F:416:ILE:CD1	2.10	0.46
1:F:435:TYR:HD1	1:F:575:TYR:HH	1.61	0.46
1:F:474:ARG:CB	1:F:523:SER:O	2.63	0.46
1:F:530:LEU:HD12	1:F:530:LEU:N	2.30	0.46
1:G:270:ASP:OD2	1:G:272:ARG:NH1	2.47	0.46
1:G:540:ILE:HD12	1:G:582:VAL:CG2	2.45	0.46
1:H:162:VAL:C	1:H:164:SER:H	2.22	0.46
1:I:424:THR:CG2	1:I:425:ILE:HD13	2.45	0.46
1:I:598:ASN:C	1:I:598:ASN:ND2	2.68	0.46
1:K:439:THR:O	1:K:440:SER:OG	2.26	0.46
1:K:451:TYR:HB3	1:K:457:ILE:HA	1.96	0.46
1:L:552:VAL:HG12	1:L:553:LEU:H	1.80	0.46
1:M:210:ALA:HB3	1:M:324:LEU:N	2.24	0.46
1:M:451:TYR:C	1:M:453:SER:H	2.22	0.46
1:M:607:ALA:HA	1:M:649:GLY:O	2.14	0.46
1:O:385:THR:CG2	1:O:386:PRO:HD2	2.45	0.46
1:O:424:THR:CG2	1:O:425:ILE:HD13	2.45	0.46
1:P:385:THR:CG2	1:P:386:PRO:HD2	2.45	0.46
1:P:473:GLN:HA	1:P:524:ASP:CG	2.41	0.46
1:S:199:PRO:HG2	1:S:200:TYR:H	1.80	0.46
1:S:471:ALA:HA	1:S:527:LEU:HA	1.98	0.46
1:S:602:PRO:CG	1:S:605:SER:CB	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:424:THR:CG2	1:A:425:ILE:HD13	2.45	0.46
1:B:391:ILE:HD12	1:B:391:ILE:H	1.80	0.46
1:B:426:PRO:O	1:B:427:SER:HB3	2.14	0.46
1:D:618:TRP:NE1	1:D:660:ASN:HB2	2.30	0.46
1:E:385:THR:CG2	1:E:386:PRO:HD2	2.45	0.46
1:E:471:ALA:HB2	1:E:527:LEU:CB	2.39	0.46
1:F:391:ILE:HD12	1:F:391:ILE:H	1.80	0.46
1:F:437:VAL:CG1	1:F:439:THR:HA	2.44	0.46
1:F:474:ARG:O	1:F:475:ALA:CB	2.63	0.46
1:F:519:ASP:CG	1:F:519:ASP:O	2.58	0.46
1:G:178:TRP:CZ2	1:G:295:LEU:HB2	2.51	0.46
1:G:340:ASP:O	1:G:340:ASP:CG	2.58	0.46
1:H:234:ILE:O	1:H:234:ILE:HD12	2.16	0.46
1:H:391:ILE:HD12	1:H:391:ILE:H	1.80	0.46
1:H:598:ASN:C	1:H:598:ASN:ND2	2.69	0.46
1:I:437:VAL:CG1	1:I:439:THR:HA	2.44	0.46
1:K:234:ILE:HD12	1:K:234:ILE:O	2.16	0.46
1:K:403:LEU:CG	1:K:514:ASN:HD21	2.28	0.46
1:K:437:VAL:CG1	1:K:439:THR:HA	2.44	0.46
1:K:474:ARG:O	1:K:475:ALA:CB	2.63	0.46
1:M:178:TRP:CZ2	1:M:295:LEU:HB2	2.51	0.46
1:M:346:SER:CB	1:M:643:LEU:HB2	2.45	0.46
1:M:425:ILE:HD13	1:M:425:ILE:H	1.80	0.46
1:M:451:TYR:H	1:M:458:VAL:CB	2.16	0.46
1:N:451:TYR:HB3	1:N:457:ILE:HA	1.96	0.46
1:O:451:TYR:HB3	1:O:457:ILE:HA	1.96	0.46
1:O:474:ARG:HB2	1:O:524:ASP:CA	2.45	0.46
1:P:377:ASN:O	1:P:378:GLN:HB2	2.16	0.46
1:P:474:ARG:CB	1:P:523:SER:O	2.63	0.46
1:Q:350:ILE:CA	1:Q:357:ASP:HA	2.43	0.46
1:Q:601:LEU:HD12	1:Q:650:ILE:HD11	1.48	0.46
1:R:162:VAL:C	1:R:164:SER:H	2.22	0.46
1:R:473:GLN:HA	1:R:524:ASP:CG	2.40	0.46
1:R:530:LEU:HD12	1:R:530:LEU:N	2.30	0.46
1:S:473:GLN:HA	1:S:524:ASP:CG	2.40	0.46
1:S:519:ASP:O	1:S:519:ASP:CG	2.58	0.46
1:T:288:VAL:HG12	1:T:289:ILE:H	1.80	0.46
1:T:298:PRO:HB2	1:T:299:TYR:CE1	2.49	0.46
1:T:474:ARG:O	1:T:475:ALA:CB	2.63	0.46
1:A:178:TRP:CZ2	1:A:295:LEU:HB2	2.51	0.46
1:A:474:ARG:O	1:A:475:ALA:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:610:ARG:HD3	1:A:620:ASP:OD1	2.15	0.46
1:B:439:THR:HG23	1:B:457:ILE:HG12	1.94	0.46
1:C:288:VAL:HG12	1:C:289:ILE:H	1.80	0.46
1:C:377:ASN:O	1:C:378:GLN:HB2	2.16	0.46
1:C:451:TYR:C	1:C:453:SER:H	2.22	0.46
1:E:540:ILE:HB	1:E:582:VAL:CG2	2.45	0.46
1:F:210:ALA:HB3	1:F:324:LEU:N	2.24	0.46
1:F:340:ASP:O	1:F:340:ASP:CG	2.58	0.46
1:F:425:ILE:HD13	1:F:425:ILE:H	1.80	0.46
1:F:618:TRP:NE1	1:F:660:ASN:HB2	2.30	0.46
1:G:437:VAL:CG1	1:G:439:THR:HA	2.44	0.46
1:G:451:TYR:O	1:G:453:SER:N	2.44	0.46
1:G:451:TYR:HB3	1:G:457:ILE:HA	1.96	0.46
1:G:474:ARG:HB2	1:G:524:ASP:CA	2.45	0.46
1:G:474:ARG:O	1:G:475:ALA:CB	2.63	0.46
1:H:471:ALA:HB2	1:H:527:LEU:CB	2.39	0.46
1:I:519:ASP:O	1:I:519:ASP:CG	2.58	0.46
1:I:540:ILE:HB	1:I:582:VAL:CG2	2.45	0.46
1:K:425:ILE:HD13	1:K:425:ILE:H	1.80	0.46
1:K:519:ASP:O	1:K:519:ASP:CG	2.58	0.46
1:L:391:ILE:HD12	1:L:391:ILE:H	1.80	0.46
1:L:474:ARG:CB	1:L:523:SER:O	2.63	0.46
1:M:171:SER:O	1:M:314:THR:N	2.43	0.46
1:M:234:ILE:O	1:M:234:ILE:HD12	2.16	0.46
1:M:474:ARG:O	1:M:475:ALA:CB	2.63	0.46
1:M:540:ILE:HB	1:M:582:VAL:CG2	2.45	0.46
1:N:361:PHE:HE1	1:N:619:PHE:HZ	1.63	0.46
1:N:385:THR:CG2	1:N:386:PRO:HD2	2.45	0.46
1:N:437:VAL:CG1	1:N:439:THR:HA	2.44	0.46
1:O:474:ARG:O	1:O:475:ALA:CB	2.63	0.46
1:O:552:VAL:HG12	1:O:553:LEU:H	1.79	0.46
1:O:618:TRP:NE1	1:O:660:ASN:HB2	2.30	0.46
1:P:416:ILE:H	1:P:416:ILE:CD1	2.10	0.46
1:Q:178:TRP:CZ2	1:Q:295:LEU:HB2	2.51	0.46
1:Q:420:TRP:O	1:Q:421:PRO:O	2.32	0.46
1:Q:425:ILE:HD13	1:Q:425:ILE:H	1.80	0.46
1:Q:474:ARG:O	1:Q:475:ALA:CB	2.63	0.46
1:Q:519:ASP:O	1:Q:519:ASP:CG	2.58	0.46
1:Q:530:LEU:HD12	1:Q:530:LEU:N	2.30	0.46
1:Q:577:ILE:O	1:Q:578:ARG:CG	2.57	0.46
1:Q:618:TRP:NE1	1:Q:660:ASN:HB2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:474:ARG:HB2	1:R:524:ASP:CA	2.45	0.46
1:S:328:PRO:O	1:T:251:TYR:HB2	2.14	0.46
1:T:199:PRO:HG2	1:T:200:TYR:H	1.80	0.46
1:T:234:ILE:O	1:T:234:ILE:HD12	2.16	0.46
1:T:385:THR:CG2	1:T:386:PRO:HD2	2.45	0.46
1:A:385:THR:CG2	1:A:386:PRO:HD2	2.45	0.46
1:B:618:TRP:NE1	1:B:660:ASN:HB2	2.30	0.46
1:C:178:TRP:CZ2	1:C:295:LEU:HB2	2.51	0.46
1:C:350:ILE:CA	1:C:357:ASP:HA	2.44	0.46
1:C:474:ARG:CB	1:C:523:SER:O	2.64	0.46
1:D:471:ALA:HA	1:D:527:LEU:HA	1.97	0.46
1:D:474:ARG:HB2	1:D:524:ASP:CA	2.45	0.46
1:E:377:ASN:O	1:E:378:GLN:HB2	2.16	0.46
1:E:391:ILE:HD12	1:E:391:ILE:H	1.80	0.46
1:E:424:THR:CG2	1:E:425:ILE:HD13	2.45	0.46
1:F:178:TRP:CZ2	1:F:295:LEU:HB2	2.51	0.46
1:F:234:ILE:HD12	1:F:234:ILE:O	2.16	0.46
1:F:398:LYS:N	1:F:403:LEU:CD2	2.76	0.46
1:G:230:LYS:HE2	1:I:222:SER:N	2.29	0.46
1:G:242:PRO:HG2	1:G:288:VAL:HG21	1.98	0.46
1:G:249:LEU:C	1:G:251:TYR:N	2.74	0.46
1:G:385:THR:CG2	1:G:386:PRO:HD2	2.45	0.46
1:G:478:ASP:HB3	1:G:479:LYS:H	1.61	0.46
1:H:437:VAL:CG1	1:H:438:THR:N	2.34	0.46
1:H:474:ARG:CB	1:H:523:SER:O	2.63	0.46
1:H:540:ILE:HB	1:H:582:VAL:CG2	2.45	0.46
1:I:199:PRO:HG2	1:I:200:TYR:H	1.80	0.46
1:I:473:GLN:HA	1:I:524:ASP:CG	2.40	0.46
1:K:362:VAL:HB	1:K:566:PHE:HB2	1.96	0.46
1:K:424:THR:CG2	1:K:425:ILE:HD13	2.45	0.46
1:K:474:ARG:CB	1:K:523:SER:O	2.63	0.46
1:L:346:SER:HB2	1:L:643:LEU:CB	2.42	0.46
1:L:425:ILE:HD13	1:L:425:ILE:H	1.80	0.46
1:M:530:LEU:HD12	1:M:530:LEU:N	2.30	0.46
1:N:362:VAL:HB	1:N:566:PHE:HB2	1.96	0.46
1:N:530:LEU:HD12	1:N:530:LEU:N	2.30	0.46
1:O:234:ILE:HD12	1:O:234:ILE:O	2.16	0.46
1:O:602:PRO:CG	1:O:605:SER:CB	2.73	0.46
1:P:234:ILE:O	1:P:234:ILE:HD12	2.16	0.46
1:P:242:PRO:HG2	1:P:288:VAL:HG21	1.98	0.46
1:P:362:VAL:HB	1:P:566:PHE:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:162:VAL:C	1:Q:164:SER:H	2.22	0.46
1:Q:540:ILE:HB	1:Q:582:VAL:CG2	2.45	0.46
1:R:391:ILE:HD12	1:R:391:ILE:H	1.80	0.46
1:R:420:TRP:O	1:R:421:PRO:O	2.32	0.46
1:T:426:PRO:O	1:T:427:SER:HB3	2.14	0.46
1:T:474:ARG:CB	1:T:523:SER:O	2.63	0.46
1:T:610:ARG:HD3	1:T:620:ASP:OD1	2.16	0.46
1:A:199:PRO:HG2	1:A:200:TYR:H	1.80	0.46
1:A:271:LEU:HD22	1:D:324:LEU:HD22	1.92	0.46
1:A:540:ILE:HD12	1:A:582:VAL:CG2	2.45	0.46
1:A:655:ILE:HD12	1:A:655:ILE:C	2.41	0.46
1:B:451:TYR:C	1:B:453:SER:H	2.22	0.46
1:B:601:LEU:HD12	1:B:650:ILE:HD11	1.48	0.46
1:C:655:ILE:C	1:C:655:ILE:HD12	2.41	0.46
1:D:162:VAL:C	1:D:164:SER:H	2.22	0.46
1:D:569:ASN:C	1:D:570:THR:CG2	2.80	0.46
1:E:171:SER:O	1:E:314:THR:N	2.43	0.46
1:E:178:TRP:CZ2	1:E:295:LEU:HB2	2.51	0.46
1:E:426:PRO:O	1:E:427:SER:HB3	2.14	0.46
1:E:474:ARG:O	1:E:475:ALA:CB	2.63	0.46
1:E:519:ASP:O	1:E:519:ASP:CG	2.58	0.46
1:F:179:SER:N	1:F:182:GLU:OE2	2.43	0.46
1:F:504:ASN:CB	1:F:505:PRO:CD	2.83	0.46
1:G:199:PRO:HG2	1:G:200:TYR:H	1.80	0.46
1:H:210:ALA:HB3	1:H:324:LEU:N	2.25	0.46
1:H:362:VAL:HB	1:H:566:PHE:HB2	1.97	0.46
1:H:403:LEU:CG	1:H:514:ASN:HD21	2.28	0.46
1:I:230:LYS:HE2	1:M:222:SER:N	2.29	0.46
1:I:340:ASP:O	1:I:340:ASP:CG	2.58	0.46
1:I:451:TYR:O	1:I:453:SER:N	2.44	0.46
1:I:474:ARG:CB	1:I:523:SER:O	2.64	0.46
1:I:655:ILE:HD12	1:I:655:ILE:C	2.41	0.46
1:J:288:VAL:HG12	1:J:289:ILE:H	1.80	0.46
1:J:377:ASN:O	1:J:378:GLN:HB2	2.16	0.46
1:J:439:THR:OG1	1:J:457:ILE:N	2.41	0.46
1:J:610:ARG:HD3	1:J:620:ASP:OD1	2.15	0.46
1:K:249:LEU:C	1:K:251:TYR:N	2.74	0.46
1:K:530:LEU:HD12	1:K:530:LEU:N	2.30	0.46
1:M:242:PRO:HG2	1:M:288:VAL:HG21	1.98	0.46
1:N:288:VAL:HG12	1:N:289:ILE:H	1.80	0.46
1:N:377:ASN:O	1:N:378:GLN:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:473:GLN:HA	1:N:524:ASP:CG	2.40	0.46
1:N:474:ARG:CB	1:N:523:SER:O	2.63	0.46
1:N:631:VAL:HG12	1:N:632:GLY:N	2.30	0.46
1:O:162:VAL:C	1:O:164:SER:H	2.22	0.46
1:P:280:SER:CB	1:P:334:HIS:CG	2.80	0.46
1:P:374:PHE:CE2	1:P:595:SER:HB3	2.51	0.46
1:P:552:VAL:HG12	1:P:553:LEU:H	1.79	0.46
1:P:601:LEU:CD1	1:P:650:ILE:CG1	2.62	0.46
1:Q:474:ARG:CB	1:Q:523:SER:O	2.63	0.46
1:R:210:ALA:HB3	1:R:324:LEU:N	2.25	0.46
1:R:242:PRO:HG2	1:R:288:VAL:HG21	1.98	0.46
1:R:385:THR:CG2	1:R:386:PRO:HD2	2.45	0.46
1:S:451:TYR:HB3	1:S:457:ILE:HA	1.96	0.46
1:S:471:ALA:HB2	1:S:527:LEU:CB	2.39	0.46
1:S:540:ILE:HB	1:S:582:VAL:CG2	2.45	0.46
1:T:391:ILE:HD12	1:T:391:ILE:H	1.80	0.46
1:T:451:TYR:C	1:T:453:SER:H	2.22	0.46
1:T:631:VAL:HG12	1:T:632:GLY:N	2.30	0.46
1:A:166:TRP:HA	1:A:169:PHE:HE2	1.78	0.46
1:A:618:TRP:NE1	1:A:660:ASN:HB2	2.30	0.46
1:B:374:PHE:CE2	1:B:595:SER:HB3	2.51	0.46
1:B:437:VAL:CG1	1:B:439:THR:HA	2.44	0.46
1:B:474:ARG:CB	1:B:523:SER:O	2.64	0.46
1:B:631:VAL:HG12	1:B:632:GLY:N	2.30	0.46
1:C:162:VAL:C	1:C:164:SER:H	2.22	0.46
1:C:249:LEU:C	1:C:251:TYR:N	2.74	0.46
1:D:201:LEU:HD22	1:D:320:PHE:CE2	2.43	0.46
1:D:519:ASP:O	1:D:519:ASP:CG	2.58	0.46
1:E:473:GLN:HA	1:E:524:ASP:CG	2.40	0.46
1:E:565:ILE:HG13	1:E:629:SER:HB2	1.98	0.46
1:G:234:ILE:HD12	1:G:234:ILE:O	2.16	0.46
1:G:530:LEU:HD12	1:G:530:LEU:N	2.30	0.46
1:G:540:ILE:HB	1:G:582:VAL:CG2	2.45	0.46
1:H:178:TRP:CZ2	1:H:295:LEU:HB2	2.51	0.46
1:H:343:PRO:HG3	1:H:589:HIS:CD2	2.51	0.46
1:I:618:TRP:NE1	1:I:660:ASN:HB2	2.30	0.46
1:J:162:VAL:C	1:J:164:SER:H	2.22	0.46
1:J:374:PHE:CE2	1:J:595:SER:HB3	2.51	0.46
1:J:631:VAL:HG12	1:J:632:GLY:N	2.30	0.46
1:K:162:VAL:C	1:K:164:SER:H	2.22	0.46
1:K:171:SER:O	1:K:314:THR:N	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:540:ILE:HB	1:K:582:VAL:CG2	2.45	0.46
1:L:162:VAL:C	1:L:164:SER:H	2.22	0.46
1:L:192:ALA:O	1:L:197:LEU:HD21	2.16	0.46
1:L:199:PRO:HG2	1:L:200:TYR:H	1.80	0.46
1:L:288:VAL:HG12	1:L:289:ILE:H	1.80	0.46
1:L:471:ALA:HA	1:L:527:LEU:HA	1.98	0.46
1:L:474:ARG:HB2	1:L:524:ASP:CA	2.45	0.46
1:L:610:ARG:HD3	1:L:620:ASP:OD1	2.16	0.46
1:M:473:GLN:HA	1:M:524:ASP:CG	2.40	0.46
1:M:474:ARG:HB2	1:M:524:ASP:CA	2.45	0.46
1:N:178:TRP:CZ2	1:N:295:LEU:HB2	2.51	0.46
1:N:474:ARG:O	1:N:475:ALA:CB	2.63	0.46
1:O:199:PRO:HG2	1:O:200:TYR:H	1.80	0.46
1:O:391:ILE:HD12	1:O:391:ILE:H	1.80	0.46
1:P:332:LEU:CD2	1:P:334:HIS:H	2.26	0.46
1:P:540:ILE:HB	1:P:582:VAL:CG2	2.45	0.46
1:P:565:ILE:HG13	1:P:629:SER:HB2	1.98	0.46
1:Q:166:TRP:HA	1:Q:169:PHE:HE2	1.78	0.46
1:Q:353:ARG:NH2	1:Q:540:ILE:O	2.49	0.46
1:Q:655:ILE:C	1:Q:655:ILE:HD12	2.41	0.46
1:R:199:PRO:HG2	1:R:200:TYR:H	1.80	0.46
1:R:424:THR:CG2	1:R:425:ILE:HD13	2.45	0.46
1:S:655:ILE:C	1:S:655:ILE:HD12	2.41	0.46
1:T:618:TRP:NE1	1:T:660:ASN:HB2	2.30	0.46
1:T:655:ILE:C	1:T:655:ILE:HD12	2.41	0.46
1:A:242:PRO:HG2	1:A:288:VAL:HG21	1.98	0.46
1:A:346:SER:CB	1:A:643:LEU:HB2	2.45	0.46
1:A:565:ILE:HG13	1:A:629:SER:HB2	1.98	0.46
1:A:631:VAL:HG12	1:A:632:GLY:N	2.30	0.46
1:B:519:ASP:CG	1:B:519:ASP:O	2.58	0.46
1:D:179:SER:N	1:D:182:GLU:OE2	2.43	0.46
1:D:474:ARG:O	1:D:475:ALA:CB	2.63	0.46
1:E:242:PRO:HG2	1:E:288:VAL:HG21	1.98	0.46
1:F:242:PRO:HG2	1:F:288:VAL:HG21	1.98	0.46
1:F:402:LYS:HD3	1:F:511:PHE:CE2	2.34	0.46
1:F:474:ARG:HB2	1:F:524:ASP:CA	2.45	0.46
1:G:288:VAL:HG12	1:G:289:ILE:H	1.80	0.46
1:G:473:GLN:HA	1:G:524:ASP:CG	2.40	0.46
1:G:618:TRP:NE1	1:G:660:ASN:HB2	2.30	0.46
1:H:346:SER:CB	1:H:643:LEU:HB2	2.45	0.46
1:H:385:THR:CG2	1:H:386:PRO:HD2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:473:GLN:HA	1:H:524:ASP:CG	2.40	0.46
1:H:602:PRO:HD2	1:H:650:ILE:HD13	1.98	0.46
1:H:655:ILE:C	1:H:655:ILE:HD12	2.41	0.46
1:I:192:ALA:O	1:I:197:LEU:HD21	2.16	0.46
1:I:374:PHE:CE2	1:I:595:SER:HB3	2.51	0.46
1:J:397:GLN:HA	1:J:403:LEU:HD21	1.96	0.46
1:K:275:LEU:CG	1:N:275:LEU:CD1	2.34	0.46
1:K:343:PRO:HG3	1:K:589:HIS:CD2	2.51	0.46
1:K:473:GLN:HA	1:K:524:ASP:CG	2.40	0.46
1:L:598:ASN:C	1:L:598:ASN:ND2	2.69	0.46
1:M:192:ALA:O	1:M:197:LEU:HD21	2.16	0.46
1:M:385:THR:CG2	1:M:386:PRO:HD2	2.45	0.46
1:M:451:TYR:O	1:M:453:SER:N	2.44	0.46
1:M:474:ARG:CB	1:M:523:SER:O	2.63	0.46
1:M:565:ILE:HG13	1:M:629:SER:HB2	1.98	0.46
1:M:655:ILE:HD12	1:M:655:ILE:C	2.41	0.46
1:N:192:ALA:O	1:N:197:LEU:HD21	2.16	0.46
1:N:340:ASP:O	1:N:340:ASP:CG	2.58	0.46
1:O:362:VAL:HB	1:O:566:PHE:HB2	1.97	0.46
1:P:343:PRO:HG3	1:P:589:HIS:CD2	2.51	0.46
1:P:474:ARG:O	1:P:475:ALA:CB	2.63	0.46
1:Q:361:PHE:HE1	1:Q:619:PHE:HZ	1.63	0.46
1:Q:552:VAL:HG12	1:Q:553:LEU:H	1.80	0.46
1:R:519:ASP:O	1:R:519:ASP:CG	2.58	0.46
1:R:655:ILE:C	1:R:655:ILE:HD12	2.41	0.46
1:S:162:VAL:C	1:S:164:SER:H	2.22	0.46
1:S:474:ARG:O	1:S:475:ALA:CB	2.63	0.46
1:T:519:ASP:O	1:T:519:ASP:CG	2.58	0.46
1:A:234:ILE:O	1:A:234:ILE:HD12	2.16	0.46
1:A:274:THR:C	1:D:275:LEU:CD1	2.66	0.46
1:A:391:ILE:HD12	1:A:391:ILE:H	1.80	0.46
1:A:473:GLN:HA	1:A:524:ASP:CG	2.40	0.46
1:A:552:VAL:HG12	1:A:553:LEU:H	1.80	0.46
1:B:297:ASN:ND2	1:B:298:PRO:HD2	2.31	0.46
1:C:234:ILE:HD12	1:C:234:ILE:O	2.16	0.46
1:C:242:PRO:HG2	1:C:288:VAL:HG21	1.98	0.46
1:D:234:ILE:HD12	1:D:234:ILE:O	2.16	0.46
1:D:602:PRO:HD2	1:D:650:ILE:HD13	1.98	0.46
1:E:552:VAL:HG12	1:E:553:LEU:H	1.79	0.46
1:E:602:PRO:CG	1:E:605:SER:CB	2.73	0.46
1:E:610:ARG:HD3	1:E:620:ASP:OD1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:203:HIS:NE2	1:N:203:HIS:NE2	2.31	0.46
1:F:249:LEU:C	1:F:251:TYR:N	2.74	0.46
1:F:374:PHE:CE2	1:F:595:SER:HB3	2.51	0.46
1:F:540:ILE:HD12	1:F:582:VAL:CG2	2.45	0.46
1:G:374:PHE:CE2	1:G:595:SER:HB3	2.51	0.46
1:G:471:ALA:HA	1:G:527:LEU:HA	1.97	0.46
1:H:439:THR:CG2	1:H:457:ILE:CG1	2.91	0.46
1:H:471:ALA:HA	1:H:527:LEU:HA	1.98	0.46
1:H:478:ASP:HB3	1:H:479:LYS:H	1.61	0.46
1:H:565:ILE:HG13	1:H:629:SER:HB2	1.98	0.46
1:I:179:SER:N	1:I:182:GLU:OE2	2.43	0.46
1:I:288:VAL:HG12	1:I:289:ILE:H	1.80	0.46
1:J:353:ARG:NH2	1:J:540:ILE:O	2.49	0.46
1:J:655:ILE:C	1:J:655:ILE:HD12	2.41	0.46
1:K:503:ILE:HB	1:K:548:VAL:HG11	1.98	0.46
1:L:447:THR:O	1:L:447:THR:OG1	2.33	0.46
1:M:280:SER:CB	1:M:334:HIS:CG	2.80	0.46
1:M:391:ILE:HD12	1:M:391:ILE:H	1.80	0.46
1:M:488:THR:OG1	1:M:489:THR:N	2.44	0.46
1:N:179:SER:HB3	1:N:182:GLU:CD	2.41	0.46
1:N:242:PRO:HG2	1:N:288:VAL:HG21	1.98	0.46
1:N:343:PRO:HG3	1:N:589:HIS:CD2	2.51	0.46
1:N:420:TRP:O	1:N:421:PRO:O	2.32	0.46
1:O:374:PHE:CE2	1:O:595:SER:HB3	2.51	0.46
1:P:503:ILE:HB	1:P:548:VAL:HG11	1.98	0.46
1:Q:362:VAL:HB	1:Q:566:PHE:HB2	1.97	0.46
1:Q:404:GLY:CA	1:Q:509:ALA:HA	2.46	0.46
1:Q:602:PRO:HD2	1:Q:650:ILE:HD13	1.98	0.46
1:R:352:ASN:HD22	1:R:586:GLN:N	2.05	0.46
1:R:362:VAL:HB	1:R:566:PHE:HB2	1.97	0.46
1:R:374:PHE:CE2	1:R:595:SER:HB3	2.51	0.46
1:R:474:ARG:CB	1:R:523:SER:O	2.63	0.46
1:S:374:PHE:CE2	1:S:595:SER:HB3	2.51	0.46
1:S:474:ARG:CB	1:S:523:SER:O	2.63	0.46
1:S:530:LEU:HD12	1:S:530:LEU:N	2.30	0.46
1:T:474:ARG:HB2	1:T:524:ASP:CA	2.45	0.46
1:T:530:LEU:HD12	1:T:530:LEU:N	2.30	0.46
1:A:223:GLY:O	1:J:259:ARG:NH2	2.47	0.46
1:A:425:ILE:HD13	1:A:425:ILE:H	1.80	0.46
1:A:474:ARG:CB	1:A:523:SER:O	2.63	0.46
1:B:162:VAL:C	1:B:164:SER:H	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:353:ARG:NH2	1:B:540:ILE:O	2.49	0.46
1:B:404:GLY:CA	1:B:509:ALA:HA	2.46	0.46
1:B:451:TYR:O	1:B:453:SER:N	2.44	0.46
1:C:192:ALA:O	1:C:197:LEU:HD21	2.16	0.46
1:C:259:ARG:HA	1:S:259:ARG:NH1	2.16	0.46
1:C:451:TYR:O	1:C:453:SER:N	2.44	0.46
1:C:471:ALA:HA	1:C:527:LEU:HA	1.98	0.46
1:D:273:SER:O	1:L:276:TYR:CE1	2.61	0.46
1:D:353:ARG:NH2	1:D:540:ILE:O	2.49	0.46
1:D:530:LEU:HD12	1:D:530:LEU:N	2.30	0.46
1:E:343:PRO:HG3	1:E:589:HIS:CD2	2.51	0.46
1:E:474:ARG:CB	1:E:523:SER:O	2.63	0.46
1:E:655:ILE:HD12	1:E:655:ILE:C	2.41	0.46
1:F:344:LYS:O	1:F:345:SER:CB	2.64	0.46
1:F:404:GLY:CA	1:F:509:ALA:HA	2.46	0.46
1:G:343:PRO:HG3	1:G:589:HIS:CD2	2.51	0.46
1:G:602:PRO:HD2	1:G:650:ILE:HD13	1.98	0.46
1:H:288:VAL:HG12	1:H:289:ILE:H	1.80	0.46
1:H:404:GLY:CA	1:H:509:ALA:HA	2.46	0.46
1:H:420:TRP:O	1:H:421:PRO:O	2.32	0.46
1:H:439:THR:HG1	1:H:457:ILE:CG1	2.22	0.46
1:I:234:ILE:O	1:I:234:ILE:HD12	2.16	0.46
1:I:353:ARG:NH2	1:I:540:ILE:O	2.49	0.46
1:I:540:ILE:HD12	1:I:582:VAL:CG2	2.45	0.46
1:J:469:CYS:CB	1:J:528:ALA:O	2.64	0.46
1:J:471:ALA:HA	1:J:527:LEU:HA	1.97	0.46
1:J:474:ARG:HB2	1:J:524:ASP:CA	2.45	0.46
1:K:273:SER:O	1:N:276:TYR:CE1	2.61	0.46
1:K:374:PHE:CE2	1:K:595:SER:HB3	2.51	0.46
1:K:565:ILE:HG13	1:K:629:SER:HB2	1.98	0.46
1:L:242:PRO:HG2	1:L:288:VAL:HG21	1.98	0.46
1:L:474:ARG:O	1:L:475:ALA:CB	2.63	0.46
1:M:540:ILE:HD12	1:M:582:VAL:CG2	2.45	0.46
1:M:602:PRO:HD2	1:M:650:ILE:HD13	1.98	0.46
1:N:565:ILE:HG13	1:N:629:SER:HB2	1.98	0.46
1:O:404:GLY:CA	1:O:509:ALA:HA	2.46	0.46
1:O:565:ILE:HG13	1:O:629:SER:HB2	1.98	0.46
1:P:353:ARG:NH2	1:P:540:ILE:O	2.49	0.46
1:P:519:ASP:O	1:P:519:ASP:CG	2.58	0.46
1:Q:377:ASN:O	1:Q:378:GLN:HB2	2.16	0.46
1:Q:471:ALA:HA	1:Q:527:LEU:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:297:ASN:ND2	1:R:298:PRO:HD2	2.31	0.46
1:R:324:LEU:HD23	1:R:324:LEU:HA	1.73	0.46
1:R:377:ASN:O	1:R:378:GLN:HB2	2.16	0.46
1:R:540:ILE:HB	1:R:582:VAL:CG2	2.45	0.46
1:R:610:ARG:HD3	1:R:620:ASP:OD1	2.15	0.46
1:S:242:PRO:HG2	1:S:288:VAL:HG21	1.98	0.46
1:T:374:PHE:CE2	1:T:595:SER:HB3	2.51	0.46
1:T:377:ASN:O	1:T:378:GLN:HB2	2.16	0.46
1:T:471:ALA:HA	1:T:527:LEU:HA	1.97	0.46
1:T:602:PRO:HD2	1:T:650:ILE:HD13	1.98	0.46
1:A:288:VAL:HG12	1:A:289:ILE:H	1.80	0.46
1:A:602:PRO:HD2	1:A:650:ILE:HD13	1.98	0.46
1:B:249:LEU:C	1:B:251:TYR:N	2.74	0.46
1:B:326:LYS:HG2	1:B:327:PRO:N	2.31	0.46
1:B:385:THR:CG2	1:B:386:PRO:HD2	2.45	0.46
1:B:602:PRO:HD2	1:B:650:ILE:HD13	1.98	0.46
1:B:610:ARG:HD3	1:B:620:ASP:OD1	2.15	0.46
1:B:655:ILE:C	1:B:655:ILE:HD12	2.41	0.46
1:C:439:THR:CG2	1:C:457:ILE:CD1	2.87	0.46
1:C:474:ARG:HB2	1:C:524:ASP:CA	2.45	0.46
1:C:610:ARG:HD3	1:C:620:ASP:OD1	2.16	0.46
1:D:340:ASP:CG	1:D:340:ASP:O	2.58	0.46
1:D:346:SER:HB2	1:D:643:LEU:CB	2.42	0.46
1:D:439:THR:HG23	1:D:457:ILE:HG12	1.94	0.46
1:E:346:SER:HB2	1:E:643:LEU:CB	2.42	0.46
1:E:451:TYR:HA	1:E:458:VAL:N	2.31	0.46
1:E:474:ARG:HB2	1:E:524:ASP:CA	2.45	0.46
1:F:326:LYS:HG3	1:R:237:PRO:CG	2.34	0.46
1:F:346:SER:HB2	1:F:643:LEU:CB	2.42	0.46
1:F:458:VAL:O	1:F:458:VAL:CG1	2.64	0.46
1:G:519:ASP:O	1:G:519:ASP:CG	2.58	0.46
1:G:588:LEU:HD23	1:G:588:LEU:C	2.41	0.46
1:G:655:ILE:C	1:G:655:ILE:HD12	2.41	0.46
1:H:353:ARG:NH2	1:H:540:ILE:O	2.49	0.46
1:H:474:ARG:HB2	1:H:524:ASP:CA	2.46	0.46
1:H:609:TYR:CE1	1:H:647:TYR:HB3	2.49	0.46
1:I:178:TRP:CZ2	1:I:295:LEU:HB2	2.51	0.46
1:I:242:PRO:HG2	1:I:288:VAL:HG21	1.98	0.46
1:I:344:LYS:O	1:I:345:SER:CB	2.64	0.46
1:I:377:ASN:O	1:I:378:GLN:HB2	2.16	0.46
1:I:451:TYR:HA	1:I:458:VAL:N	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:474:ARG:HB2	1:I:524:ASP:CA	2.46	0.46
1:J:179:SER:HB3	1:J:182:GLU:CD	2.41	0.46
1:J:474:ARG:O	1:J:475:ALA:CB	2.63	0.46
1:K:252:PRO:HD3	1:N:328:PRO:CD	2.46	0.46
1:K:344:LYS:O	1:K:345:SER:CB	2.64	0.46
1:K:385:THR:CG2	1:K:386:PRO:HD2	2.45	0.46
1:K:655:ILE:C	1:K:655:ILE:HD12	2.41	0.46
1:L:178:TRP:CZ2	1:L:295:LEU:HB2	2.51	0.46
1:L:326:LYS:HG2	1:L:327:PRO:N	2.31	0.46
1:L:424:THR:CG2	1:L:425:ILE:HD13	2.45	0.46
1:L:655:ILE:C	1:L:655:ILE:HD12	2.41	0.46
1:N:234:ILE:HD12	1:N:234:ILE:O	2.16	0.46
1:N:602:PRO:HD2	1:N:650:ILE:HD13	1.98	0.46
1:P:471:ALA:HA	1:P:527:LEU:HA	1.98	0.46
1:P:655:ILE:C	1:P:655:ILE:HD12	2.41	0.46
1:Q:342:ILE:H	1:Q:342:ILE:HD12	1.68	0.46
1:Q:346:SER:CB	1:Q:643:LEU:HB2	2.45	0.46
1:Q:469:CYS:CB	1:Q:528:ALA:O	2.64	0.46
1:Q:474:ARG:HB2	1:Q:524:ASP:CA	2.46	0.46
1:R:343:PRO:HG3	1:R:589:HIS:CD2	2.51	0.46
1:R:503:ILE:HB	1:R:548:VAL:HG11	1.98	0.46
1:R:504:ASN:CB	1:R:505:PRO:CD	2.83	0.46
1:R:588:LEU:HD23	1:R:588:LEU:C	2.41	0.46
1:S:602:PRO:HD2	1:S:650:ILE:HD13	1.98	0.46
1:T:179:SER:HB3	1:T:182:GLU:CD	2.41	0.46
1:T:343:PRO:HG3	1:T:589:HIS:CD2	2.51	0.46
1:T:503:ILE:HB	1:T:548:VAL:HG11	1.98	0.46
1:A:275:LEU:HG	1:D:275:LEU:HG	1.55	0.45
1:B:178:TRP:CZ2	1:B:295:LEU:HB2	2.51	0.45
1:B:348:LEU:CD1	1:B:348:LEU:O	2.65	0.45
1:B:385:THR:C	1:B:387:ARG:H	2.25	0.45
1:B:451:TYR:HA	1:B:458:VAL:N	2.32	0.45
1:B:473:GLN:HA	1:B:524:ASP:CG	2.40	0.45
1:B:474:ARG:O	1:B:475:ALA:CB	2.63	0.45
1:C:230:LYS:NZ	1:K:220:SER:OG	2.39	0.45
1:C:385:THR:CG2	1:C:386:PRO:HD2	2.45	0.45
1:C:469:CYS:CB	1:C:528:ALA:O	2.65	0.45
1:D:178:TRP:CZ2	1:D:295:LEU:HB2	2.51	0.45
1:D:343:PRO:HG3	1:D:589:HIS:CD2	2.51	0.45
1:D:354:TYR:HH	1:D:467:TYR:HE2	1.54	0.45
1:D:631:VAL:HG12	1:D:632:GLY:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:192:ALA:O	1:E:197:LEU:HD21	2.16	0.45
1:E:234:ILE:O	1:E:234:ILE:HD12	2.16	0.45
1:E:353:ARG:NH2	1:E:540:ILE:O	2.49	0.45
1:E:471:ALA:HA	1:E:527:LEU:HA	1.97	0.45
1:E:530:LEU:HD12	1:E:530:LEU:N	2.30	0.45
1:E:588:LEU:C	1:E:588:LEU:HD23	2.41	0.45
1:F:348:LEU:O	1:F:348:LEU:CD1	2.65	0.45
1:F:353:ARG:NH2	1:F:540:ILE:O	2.49	0.45
1:F:469:CYS:CB	1:F:528:ALA:O	2.65	0.45
1:F:602:PRO:HD2	1:F:650:ILE:HD13	1.98	0.45
1:G:326:LYS:HG2	1:G:327:PRO:N	2.31	0.45
1:G:348:LEU:CD1	1:G:348:LEU:O	2.64	0.45
1:G:424:THR:CG2	1:G:425:ILE:HD13	2.45	0.45
1:G:458:VAL:O	1:G:458:VAL:CG1	2.65	0.45
1:H:249:LEU:C	1:H:251:TYR:N	2.74	0.45
1:H:425:ILE:HD13	1:H:425:ILE:H	1.80	0.45
1:H:458:VAL:O	1:H:458:VAL:CG1	2.64	0.45
1:J:297:ASN:ND2	1:J:298:PRO:HD2	2.31	0.45
1:J:391:ILE:HD12	1:J:391:ILE:H	1.80	0.45
1:J:404:GLY:CA	1:J:509:ALA:HA	2.46	0.45
1:K:190:LYS:HE3	1:K:652:LEU:HB3	1.42	0.45
1:K:251:TYR:CD1	1:N:328:PRO:HB2	2.42	0.45
1:K:602:PRO:HD2	1:K:650:ILE:HD13	1.98	0.45
1:L:249:LEU:C	1:L:251:TYR:N	2.74	0.45
1:L:297:ASN:ND2	1:L:298:PRO:N	2.60	0.45
1:L:398:LYS:N	1:L:403:LEU:CD2	2.76	0.45
1:L:458:VAL:O	1:L:458:VAL:CG1	2.65	0.45
1:L:530:LEU:HD12	1:L:530:LEU:N	2.30	0.45
1:M:344:LYS:O	1:M:345:SER:CB	2.64	0.45
1:M:588:LEU:C	1:M:588:LEU:HD23	2.41	0.45
1:N:391:ILE:HD12	1:N:391:ILE:H	1.80	0.45
1:O:178:TRP:CZ2	1:O:295:LEU:HB2	2.51	0.45
1:O:192:ALA:O	1:O:197:LEU:HD21	2.16	0.45
1:O:447:THR:O	1:O:447:THR:OG1	2.33	0.45
1:O:631:VAL:CG1	1:O:632:GLY:N	2.79	0.45
1:P:166:TRP:HA	1:P:169:PHE:HE2	1.78	0.45
1:P:190:LYS:HE3	1:P:652:LEU:HB3	1.42	0.45
1:P:458:VAL:O	1:P:458:VAL:CG1	2.64	0.45
1:P:474:ARG:HB2	1:P:524:ASP:CA	2.46	0.45
1:P:631:VAL:CG1	1:P:632:GLY:N	2.79	0.45
1:Q:374:PHE:CE2	1:Q:595:SER:HB3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:391:ILE:HD12	1:Q:391:ILE:H	1.80	0.45
1:R:404:GLY:HA3	1:R:509:ALA:HA	1.99	0.45
1:R:425:ILE:HD13	1:R:425:ILE:H	1.80	0.45
1:S:234:ILE:HD12	1:S:234:ILE:O	2.16	0.45
1:S:340:ASP:O	1:S:340:ASP:CG	2.58	0.45
1:S:451:TYR:HA	1:S:458:VAL:N	2.31	0.45
1:T:192:ALA:O	1:T:197:LEU:HD21	2.16	0.45
1:T:297:ASN:ND2	1:T:298:PRO:N	2.60	0.45
1:A:251:TYR:HD1	1:D:328:PRO:C	1.60	0.45
1:A:297:ASN:ND2	1:A:298:PRO:N	2.60	0.45
1:A:404:GLY:CA	1:A:509:ALA:HA	2.46	0.45
1:B:230:LYS:NZ	1:Q:220:SER:OG	2.39	0.45
1:B:242:PRO:HG2	1:B:288:VAL:HG21	1.98	0.45
1:B:377:ASN:O	1:B:378:GLN:HB2	2.16	0.45
1:C:179:SER:HB3	1:C:182:GLU:CD	2.41	0.45
1:C:326:LYS:HG2	1:C:327:PRO:N	2.31	0.45
1:C:385:THR:C	1:C:387:ARG:H	2.25	0.45
1:D:391:ILE:HD12	1:D:391:ILE:H	1.80	0.45
1:D:451:TYR:HA	1:D:458:VAL:N	2.31	0.45
1:D:473:GLN:HA	1:D:524:ASP:CG	2.40	0.45
1:D:610:ARG:HD3	1:D:620:ASP:OD1	2.15	0.45
1:D:631:VAL:CG1	1:D:632:GLY:N	2.80	0.45
1:E:362:VAL:HB	1:E:566:PHE:HB2	1.97	0.45
1:E:439:THR:CG2	1:E:457:ILE:CD1	2.87	0.45
1:E:484:THR:CG2	1:E:485:ALA:H	2.27	0.45
1:E:540:ILE:HD12	1:E:582:VAL:CG2	2.45	0.45
1:E:577:ILE:O	1:E:578:ARG:CG	2.57	0.45
1:E:602:PRO:HD2	1:E:650:ILE:HD13	1.98	0.45
1:F:343:PRO:HG3	1:F:589:HIS:CD2	2.51	0.45
1:F:348:LEU:CG	1:N:387:ARG:HH12	2.29	0.45
1:F:439:THR:CG2	1:F:457:ILE:CG1	2.91	0.45
1:G:192:ALA:O	1:G:197:LEU:HD21	2.16	0.45
1:G:301:ASN:HB3	1:G:302:ASP:H	1.51	0.45
1:G:353:ARG:NH2	1:G:540:ILE:O	2.49	0.45
1:G:474:ARG:CB	1:G:523:SER:O	2.63	0.45
1:G:503:ILE:HB	1:G:548:VAL:HG11	1.98	0.45
1:H:192:ALA:O	1:H:197:LEU:HD21	2.16	0.45
1:H:404:GLY:HA3	1:H:509:ALA:HA	1.99	0.45
1:I:171:SER:O	1:I:314:THR:N	2.43	0.45
1:I:471:ALA:HA	1:I:527:LEU:HA	1.97	0.45
1:I:602:PRO:HD2	1:I:650:ILE:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:610:ARG:HD3	1:I:620:ASP:OD1	2.15	0.45
1:I:631:VAL:HG12	1:I:632:GLY:N	2.30	0.45
1:J:342:ILE:HD13	1:J:609:TYR:CD2	2.51	0.45
1:J:565:ILE:HG13	1:J:629:SER:HB2	1.98	0.45
1:J:618:TRP:NE1	1:J:660:ASN:HB2	2.30	0.45
1:L:340:ASP:CG	1:L:340:ASP:O	2.58	0.45
1:L:344:LYS:O	1:L:345:SER:CB	2.64	0.45
1:L:404:GLY:CA	1:L:509:ALA:HA	2.46	0.45
1:L:469:CYS:CB	1:L:528:ALA:O	2.64	0.45
1:L:473:GLN:HA	1:L:524:ASP:CG	2.40	0.45
1:L:519:ASP:O	1:L:519:ASP:CG	2.58	0.45
1:M:450:GLU:O	1:M:451:TYR:CB	2.57	0.45
1:M:451:TYR:HA	1:M:458:VAL:N	2.31	0.45
1:N:249:LEU:C	1:N:251:TYR:N	2.74	0.45
1:N:451:TYR:HA	1:N:458:VAL:N	2.31	0.45
1:N:631:VAL:CG1	1:N:632:GLY:N	2.80	0.45
1:O:242:PRO:HG2	1:O:288:VAL:HG21	1.98	0.45
1:O:346:SER:CB	1:O:643:LEU:HB2	2.45	0.45
1:O:377:ASN:O	1:O:378:GLN:HB2	2.16	0.45
1:O:403:LEU:HG	1:O:514:ASN:HD21	1.82	0.45
1:O:469:CYS:CB	1:O:528:ALA:O	2.65	0.45
1:O:519:ASP:O	1:O:519:ASP:CG	2.58	0.45
1:O:588:LEU:HD23	1:O:588:LEU:C	2.41	0.45
1:P:192:ALA:O	1:P:197:LEU:HD21	2.16	0.45
1:P:530:LEU:HD12	1:P:530:LEU:N	2.30	0.45
1:Q:435:TYR:HD1	1:Q:575:TYR:HH	1.62	0.45
1:Q:588:LEU:C	1:Q:588:LEU:HD23	2.42	0.45
1:R:404:GLY:CA	1:R:509:ALA:HA	2.46	0.45
1:R:451:TYR:HA	1:R:458:VAL:N	2.32	0.45
1:S:179:SER:HB3	1:S:182:GLU:CD	2.41	0.45
1:S:249:LEU:C	1:S:251:TYR:N	2.74	0.45
1:S:344:LYS:O	1:S:345:SER:CB	2.64	0.45
1:S:451:TYR:C	1:S:453:SER:H	2.22	0.45
1:T:404:GLY:CA	1:T:509:ALA:HA	2.46	0.45
1:T:588:LEU:HD23	1:T:588:LEU:C	2.41	0.45
1:A:374:PHE:CE2	1:A:595:SER:HB3	2.51	0.45
1:A:471:ALA:HA	1:A:527:LEU:HA	1.98	0.45
1:B:192:ALA:O	1:B:197:LEU:HD21	2.16	0.45
1:B:343:PRO:HG3	1:B:589:HIS:CD2	2.51	0.45
1:B:348:LEU:CG	1:D:387:ARG:HH12	2.29	0.45
1:B:361:PHE:HE1	1:B:619:PHE:HZ	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:469:CYS:CB	1:B:528:ALA:O	2.64	0.45
1:C:171:SER:O	1:C:314:THR:N	2.43	0.45
1:C:391:ILE:HD12	1:C:391:ILE:H	1.80	0.45
1:C:403:LEU:HG	1:C:514:ASN:HD21	1.82	0.45
1:C:404:GLY:CA	1:C:509:ALA:HA	2.46	0.45
1:C:484:THR:CG2	1:C:485:ALA:H	2.27	0.45
1:C:519:ASP:O	1:C:519:ASP:CG	2.58	0.45
1:C:631:VAL:HG12	1:C:632:GLY:N	2.30	0.45
1:D:222:SER:HG	1:F:229:GLY:C	2.22	0.45
1:D:280:SER:CB	1:D:334:HIS:CG	2.80	0.45
1:D:374:PHE:CE2	1:D:595:SER:HB3	2.51	0.45
1:D:451:TYR:H	1:D:458:VAL:CB	2.16	0.45
1:D:484:THR:CG2	1:D:485:ALA:H	2.27	0.45
1:D:503:ILE:HB	1:D:548:VAL:HG11	1.98	0.45
1:D:655:ILE:C	1:D:655:ILE:HD12	2.41	0.45
1:E:189:PHE:C	1:E:191:GLN:H	2.25	0.45
1:E:404:GLY:HA3	1:E:509:ALA:HA	1.98	0.45
1:E:416:ILE:CG1	1:E:503:ILE:CD1	2.88	0.45
1:E:469:CYS:CB	1:E:528:ALA:O	2.65	0.45
1:G:403:LEU:HG	1:G:514:ASN:HD21	1.82	0.45
1:G:565:ILE:HG13	1:G:629:SER:HB2	1.98	0.45
1:G:610:ARG:HD3	1:G:620:ASP:OD1	2.15	0.45
1:H:348:LEU:CD1	1:H:348:LEU:O	2.64	0.45
1:H:377:ASN:O	1:H:378:GLN:HB2	2.16	0.45
1:H:474:ARG:O	1:H:475:ALA:CB	2.63	0.45
1:I:391:ILE:HD12	1:I:391:ILE:H	1.80	0.45
1:I:588:LEU:C	1:I:588:LEU:HD23	2.42	0.45
1:I:631:VAL:CG1	1:I:632:GLY:N	2.80	0.45
1:K:178:TRP:CZ2	1:K:295:LEU:HB2	2.51	0.45
1:K:447:THR:O	1:K:447:THR:OG1	2.33	0.45
1:K:451:TYR:HA	1:K:458:VAL:N	2.31	0.45
1:K:458:VAL:O	1:K:458:VAL:CG1	2.64	0.45
1:L:368:PHE:HD1	1:L:547:VAL:HG21	1.82	0.45
1:M:162:VAL:C	1:M:164:SER:H	2.22	0.45
1:M:377:ASN:O	1:M:378:GLN:HB2	2.16	0.45
1:M:404:GLY:CA	1:M:509:ALA:HA	2.46	0.45
1:M:631:VAL:HG12	1:M:632:GLY:N	2.30	0.45
1:M:631:VAL:CG1	1:M:632:GLY:N	2.80	0.45
1:N:385:THR:C	1:N:387:ARG:H	2.25	0.45
1:N:439:THR:CG2	1:N:457:ILE:CD1	2.87	0.45
1:N:469:CYS:CB	1:N:528:ALA:O	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:249:LEU:C	1:O:251:TYR:N	2.74	0.45
1:O:484:THR:CG2	1:O:485:ALA:H	2.27	0.45
1:O:503:ILE:HB	1:O:548:VAL:HG11	1.98	0.45
1:O:602:PRO:HD2	1:O:650:ILE:HD13	1.98	0.45
1:P:179:SER:HB3	1:P:182:GLU:CD	2.41	0.45
1:P:326:LYS:HG2	1:P:327:PRO:N	2.31	0.45
1:Q:458:VAL:O	1:Q:458:VAL:CG1	2.64	0.45
1:R:451:TYR:H	1:R:458:VAL:CB	2.16	0.45
1:S:328:PRO:HB2	1:T:251:TYR:CD1	2.42	0.45
1:S:368:PHE:HD1	1:S:547:VAL:HG21	1.82	0.45
1:S:404:GLY:HA3	1:S:509:ALA:HA	1.99	0.45
1:T:353:ARG:NH2	1:T:540:ILE:O	2.49	0.45
1:T:469:CYS:CB	1:T:528:ALA:O	2.64	0.45
1:A:361:PHE:HE1	1:A:619:PHE:HZ	1.63	0.45
1:A:386:PRO:O	1:A:588:LEU:HD21	2.17	0.45
1:A:404:GLY:HA3	1:A:509:ALA:HA	1.99	0.45
1:A:519:ASP:O	1:A:519:ASP:CG	2.58	0.45
1:B:179:SER:HB3	1:B:182:GLU:CD	2.41	0.45
1:B:234:ILE:HD12	1:B:234:ILE:O	2.16	0.45
1:B:252:PRO:HD3	1:R:328:PRO:CD	2.47	0.45
1:C:374:PHE:CE2	1:C:595:SER:HB3	2.51	0.45
1:C:618:TRP:NE1	1:C:660:ASN:HB2	2.30	0.45
1:D:404:GLY:CA	1:D:509:ALA:HA	2.46	0.45
1:F:385:THR:C	1:F:387:ARG:H	2.25	0.45
1:F:655:ILE:C	1:F:655:ILE:HD12	2.41	0.45
1:G:342:ILE:H	1:G:342:ILE:HD12	1.68	0.45
1:G:344:LYS:O	1:G:345:SER:CB	2.64	0.45
1:H:488:THR:OG1	1:H:489:THR:N	2.44	0.45
1:I:249:LEU:C	1:I:251:TYR:N	2.74	0.45
1:I:386:PRO:O	1:I:588:LEU:HD21	2.17	0.45
1:I:403:LEU:HG	1:I:514:ASN:HD21	1.82	0.45
1:J:326:LYS:HG2	1:J:327:PRO:N	2.31	0.45
1:J:361:PHE:HE1	1:J:619:PHE:HZ	1.63	0.45
1:J:403:LEU:HG	1:J:514:ASN:HD21	1.82	0.45
1:J:552:VAL:HG12	1:J:553:LEU:H	1.79	0.45
1:J:631:VAL:CG1	1:J:632:GLY:N	2.80	0.45
1:K:471:ALA:HA	1:K:527:LEU:HA	1.98	0.45
1:K:610:ARG:HD3	1:K:620:ASP:OD1	2.15	0.45
1:L:234:ILE:O	1:L:234:ILE:HD12	2.16	0.45
1:L:631:VAL:HG12	1:L:632:GLY:N	2.30	0.45
1:M:348:LEU:CD1	1:M:348:LEU:O	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:447:THR:O	1:M:447:THR:OG1	2.33	0.45
1:M:610:ARG:HD3	1:M:620:ASP:OD1	2.15	0.45
1:N:326:LYS:HG2	1:N:327:PRO:N	2.31	0.45
1:N:350:ILE:CA	1:N:357:ASP:HA	2.44	0.45
1:N:404:GLY:CA	1:N:509:ALA:HA	2.46	0.45
1:O:348:LEU:CD1	1:O:348:LEU:O	2.64	0.45
1:P:189:PHE:C	1:P:191:GLN:H	2.25	0.45
1:P:610:ARG:HD3	1:P:620:ASP:OD1	2.16	0.45
1:Q:234:ILE:O	1:Q:234:ILE:HD12	2.16	0.45
1:R:192:ALA:O	1:R:197:LEU:HD21	2.16	0.45
1:S:178:TRP:CZ2	1:S:295:LEU:HB2	2.51	0.45
1:S:385:THR:CG2	1:S:386:PRO:HD2	2.45	0.45
1:S:391:ILE:HD12	1:S:391:ILE:H	1.80	0.45
1:S:458:VAL:O	1:S:458:VAL:CG1	2.64	0.45
1:S:588:LEU:HD23	1:S:588:LEU:C	2.42	0.45
1:T:350:ILE:CA	1:T:357:ASP:HA	2.44	0.45
1:T:368:PHE:HD1	1:T:547:VAL:HG21	1.82	0.45
1:A:353:ARG:NH2	1:A:540:ILE:O	2.49	0.45
1:A:377:ASN:O	1:A:378:GLN:HB2	2.16	0.45
1:A:451:TYR:C	1:A:453:SER:H	2.22	0.45
1:A:631:VAL:CG1	1:A:632:GLY:N	2.80	0.45
1:B:324:LEU:HD23	1:B:324:LEU:HA	1.73	0.45
1:C:260:GLN:HG3	1:K:261:VAL:CG1	2.47	0.45
1:C:588:LEU:HD23	1:C:588:LEU:C	2.42	0.45
1:D:280:SER:HB2	1:D:334:HIS:CE1	2.52	0.45
1:D:377:ASN:O	1:D:378:GLN:HB2	2.16	0.45
1:D:386:PRO:O	1:D:588:LEU:HD21	2.17	0.45
1:D:458:VAL:O	1:D:458:VAL:CG1	2.64	0.45
1:D:474:ARG:CB	1:D:523:SER:O	2.63	0.45
1:D:510:VAL:CG1	1:D:511:PHE:N	2.45	0.45
1:E:374:PHE:CE2	1:E:595:SER:HB3	2.51	0.45
1:F:368:PHE:HD1	1:F:547:VAL:HG21	1.82	0.45
1:F:478:ASP:HB3	1:F:479:LYS:H	1.61	0.45
1:G:377:ASN:O	1:G:378:GLN:HB2	2.16	0.45
1:G:439:THR:CG2	1:G:457:ILE:CG1	2.91	0.45
1:H:610:ARG:HD3	1:H:620:ASP:OD1	2.15	0.45
1:J:178:TRP:CZ2	1:J:295:LEU:HB2	2.51	0.45
1:J:588:LEU:HD23	1:J:588:LEU:C	2.42	0.45
1:K:377:ASN:O	1:K:378:GLN:HB2	2.16	0.45
1:K:404:GLY:CA	1:K:509:ALA:HA	2.46	0.45
1:K:471:ALA:HB2	1:K:527:LEU:CB	2.39	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:237:PRO:CG	1:Q:327:PRO:CD	2.54	0.45
1:N:280:SER:HB2	1:N:334:HIS:CE1	2.52	0.45
1:O:343:PRO:HG3	1:O:589:HIS:CD2	2.51	0.45
1:O:451:TYR:HA	1:O:458:VAL:N	2.32	0.45
1:O:458:VAL:O	1:O:458:VAL:CG1	2.64	0.45
1:O:504:ASN:CB	1:O:505:PRO:CD	2.83	0.45
1:P:386:PRO:O	1:P:588:LEU:HD21	2.17	0.45
1:P:404:GLY:CA	1:P:509:ALA:HA	2.46	0.45
1:P:588:LEU:HD23	1:P:588:LEU:C	2.42	0.45
1:Q:176:VAL:CG1	1:Q:177:ASN:N	2.80	0.45
1:Q:192:ALA:O	1:Q:197:LEU:HD21	2.16	0.45
1:Q:201:LEU:HD22	1:Q:320:PHE:CE2	2.43	0.45
1:Q:242:PRO:HG2	1:Q:288:VAL:HG21	1.98	0.45
1:Q:348:LEU:CD1	1:Q:348:LEU:O	2.64	0.45
1:R:353:ARG:NH2	1:R:540:ILE:O	2.49	0.45
1:R:540:ILE:HD12	1:R:582:VAL:CG2	2.45	0.45
1:S:343:PRO:HG3	1:S:589:HIS:CD2	2.51	0.45
1:S:348:LEU:CD1	1:S:348:LEU:O	2.65	0.45
1:S:618:TRP:NE1	1:S:660:ASN:HB2	2.30	0.45
1:T:178:TRP:CZ2	1:T:295:LEU:HB2	2.51	0.45
1:T:249:LEU:C	1:T:251:TYR:N	2.74	0.45
1:T:348:LEU:CD1	1:T:348:LEU:O	2.64	0.45
1:T:403:LEU:HG	1:T:514:ASN:HD21	1.82	0.45
1:A:192:ALA:O	1:A:197:LEU:HD21	2.16	0.45
1:A:252:PRO:HD3	1:D:328:PRO:CD	2.47	0.45
1:A:348:LEU:CG	1:E:387:ARG:HH12	2.30	0.45
1:B:300:ALA:O	1:B:301:ASN:CB	2.65	0.45
1:B:348:LEU:HD21	1:D:387:ARG:HH22	1.69	0.45
1:B:368:PHE:HD1	1:B:547:VAL:HG21	1.82	0.45
1:B:471:ALA:HA	1:B:527:LEU:HA	1.97	0.45
1:B:565:ILE:HG13	1:B:629:SER:HB2	1.98	0.45
1:C:199:PRO:HG2	1:C:200:TYR:H	1.80	0.45
1:C:251:TYR:CD1	1:C:252:PRO:HD2	2.52	0.45
1:C:344:LYS:O	1:C:345:SER:CB	2.64	0.45
1:C:348:LEU:CD1	1:C:348:LEU:O	2.65	0.45
1:D:280:SER:OG	1:D:334:HIS:CD2	2.42	0.45
1:D:346:SER:CB	1:D:643:LEU:HB2	2.45	0.45
1:E:179:SER:HB3	1:E:182:GLU:CD	2.41	0.45
1:E:403:LEU:HG	1:E:514:ASN:HD21	1.82	0.45
1:F:221:ILE:O	1:F:221:ILE:HG13	2.15	0.45
1:G:297:ASN:ND2	1:G:298:PRO:N	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:631:VAL:CG1	1:G:632:GLY:N	2.80	0.45
1:H:631:VAL:CG1	1:H:632:GLY:N	2.79	0.45
1:K:192:ALA:O	1:K:197:LEU:HD21	2.16	0.45
1:L:343:PRO:HG3	1:L:589:HIS:CD2	2.51	0.45
1:L:348:LEU:CG	1:S:387:ARG:HH12	2.30	0.45
1:L:374:PHE:CE2	1:L:595:SER:HB3	2.51	0.45
1:L:377:ASN:O	1:L:378:GLN:HB2	2.16	0.45
1:M:189:PHE:C	1:M:191:GLN:H	2.25	0.45
1:M:288:VAL:HG12	1:M:289:ILE:H	1.80	0.45
1:N:403:LEU:HG	1:N:514:ASN:HD21	1.82	0.45
1:N:404:GLY:HA3	1:N:509:ALA:HA	1.99	0.45
1:O:353:ARG:NH2	1:O:540:ILE:O	2.49	0.45
1:O:361:PHE:HE1	1:O:619:PHE:HZ	1.63	0.45
1:O:404:GLY:HA3	1:O:509:ALA:HA	1.99	0.45
1:P:348:LEU:CD1	1:P:348:LEU:O	2.64	0.45
1:P:631:VAL:HG12	1:P:632:GLY:N	2.30	0.45
1:Q:348:LEU:CG	1:R:387:ARG:HH12	2.30	0.45
1:Q:610:ARG:HD3	1:Q:620:ASP:OD1	2.15	0.45
1:Q:631:VAL:HG12	1:Q:632:GLY:N	2.30	0.45
1:R:234:ILE:HD12	1:R:234:ILE:O	2.16	0.45
1:R:249:LEU:C	1:R:251:TYR:N	2.74	0.45
1:R:458:VAL:O	1:R:458:VAL:CG1	2.64	0.45
1:R:484:THR:CG2	1:R:485:ALA:H	2.27	0.45
1:R:602:PRO:HD2	1:R:650:ILE:HD13	1.98	0.45
1:S:326:LYS:HG2	1:S:327:PRO:N	2.31	0.45
1:S:404:GLY:CA	1:S:509:ALA:HA	2.46	0.45
1:S:565:ILE:HG13	1:S:629:SER:HB2	1.98	0.45
1:A:348:LEU:CD1	1:A:348:LEU:O	2.64	0.45
1:A:588:LEU:C	1:A:588:LEU:HD23	2.42	0.45
1:B:260:GLN:HG3	1:Q:261:VAL:CG1	2.47	0.45
1:C:386:PRO:O	1:C:588:LEU:HD21	2.17	0.45
1:D:171:SER:O	1:D:314:THR:N	2.43	0.45
1:D:189:PHE:C	1:D:191:GLN:H	2.25	0.45
1:D:237:PRO:CD	1:L:327:PRO:HG2	2.32	0.45
1:D:242:PRO:HG2	1:D:288:VAL:HG21	1.98	0.45
1:D:252:PRO:HD3	1:L:328:PRO:HD2	1.90	0.45
1:D:469:CYS:CB	1:D:528:ALA:O	2.64	0.45
1:D:508:ILE:N	1:D:508:ILE:CD1	2.78	0.45
1:E:348:LEU:CD1	1:E:348:LEU:O	2.65	0.45
1:E:386:PRO:O	1:E:588:LEU:HD21	2.17	0.45
1:E:458:VAL:O	1:E:458:VAL:CG1	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:503:ILE:HB	1:E:548:VAL:HG11	1.98	0.45
1:F:297:ASN:ND2	1:F:298:PRO:HD2	2.31	0.45
1:F:377:ASN:O	1:F:378:GLN:HB2	2.16	0.45
1:F:457:ILE:HD12	1:F:460:ASN:OD1	2.17	0.45
1:F:565:ILE:HG13	1:F:629:SER:HB2	1.98	0.45
1:F:631:VAL:HG12	1:F:632:GLY:N	2.30	0.45
1:G:179:SER:HB3	1:G:182:GLU:CD	2.41	0.45
1:G:297:ASN:ND2	1:G:298:PRO:HD2	2.31	0.45
1:H:260:GLN:HG3	1:T:261:VAL:CG1	2.47	0.45
1:H:332:LEU:CD2	1:H:334:HIS:H	2.26	0.45
1:I:346:SER:CB	1:I:643:LEU:HB2	2.45	0.45
1:I:368:PHE:HD1	1:I:547:VAL:HG21	1.82	0.45
1:I:431:PRO:CD	1:I:495:ASN:O	2.65	0.45
1:I:530:LEU:HD12	1:I:530:LEU:N	2.30	0.45
1:J:348:LEU:O	1:J:348:LEU:CD1	2.65	0.45
1:J:451:TYR:HA	1:J:458:VAL:N	2.32	0.45
1:K:348:LEU:CD1	1:K:348:LEU:O	2.64	0.45
1:L:189:PHE:C	1:L:191:GLN:H	2.25	0.45
1:L:348:LEU:CD1	1:L:348:LEU:O	2.64	0.45
1:L:403:LEU:HG	1:L:514:ASN:HD21	1.82	0.45
1:L:602:PRO:HD2	1:L:650:ILE:HD13	1.98	0.45
1:M:386:PRO:O	1:M:588:LEU:HD21	2.17	0.45
1:M:458:VAL:O	1:M:458:VAL:CG1	2.64	0.45
1:N:300:ALA:O	1:N:301:ASN:CB	2.65	0.45
1:N:353:ARG:NH2	1:N:540:ILE:O	2.49	0.45
1:N:368:PHE:HD1	1:N:547:VAL:HG21	1.82	0.45
1:O:179:SER:HB3	1:O:182:GLU:CD	2.41	0.45
1:O:488:THR:OG1	1:O:489:THR:N	2.44	0.45
1:O:540:ILE:HD12	1:O:582:VAL:CG2	2.45	0.45
1:O:655:ILE:C	1:O:655:ILE:HD12	2.41	0.45
1:P:391:ILE:HD12	1:P:391:ILE:H	1.80	0.45
1:P:469:CYS:CB	1:P:528:ALA:O	2.64	0.45
1:Q:297:ASN:ND2	1:Q:298:PRO:HD2	2.31	0.45
1:Q:297:ASN:ND2	1:Q:298:PRO:N	2.60	0.45
1:Q:343:PRO:HG3	1:Q:589:HIS:CD2	2.51	0.45
1:Q:431:PRO:CD	1:Q:495:ASN:O	2.65	0.45
1:R:178:TRP:CZ2	1:R:295:LEU:HB2	2.51	0.45
1:R:368:PHE:HD1	1:R:547:VAL:HG21	1.82	0.45
1:R:386:PRO:O	1:R:588:LEU:HD21	2.17	0.45
1:S:192:ALA:O	1:S:197:LEU:HD21	2.16	0.45
1:S:377:ASN:O	1:S:378:GLN:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:431:PRO:CD	1:S:495:ASN:O	2.65	0.45
1:T:404:GLY:HA3	1:T:509:ALA:HA	1.99	0.45
1:T:451:TYR:HA	1:T:458:VAL:N	2.32	0.45
1:A:260:GLN:HG3	1:B:261:VAL:CG1	2.47	0.45
1:A:326:LYS:HG2	1:A:327:PRO:N	2.31	0.45
1:A:424:THR:HG1	1:A:489:THR:HG23	1.81	0.45
1:B:176:VAL:CG1	1:B:177:ASN:N	2.80	0.45
1:B:588:LEU:HD23	1:B:588:LEU:C	2.42	0.45
1:C:404:GLY:HA3	1:C:509:ALA:HA	1.99	0.45
1:C:451:TYR:HA	1:C:458:VAL:N	2.31	0.45
1:C:602:PRO:HD2	1:C:650:ILE:HD13	1.98	0.45
1:D:192:ALA:O	1:D:197:LEU:HD21	2.16	0.45
1:D:479:LYS:HE3	1:D:516:VAL:HB	1.99	0.45
1:E:297:ASN:ND2	1:E:298:PRO:HD2	2.31	0.45
1:F:588:LEU:HD23	1:F:588:LEU:C	2.42	0.45
1:G:354:TYR:HH	1:G:467:TYR:HE2	1.58	0.45
1:G:386:PRO:O	1:G:588:LEU:HD21	2.17	0.45
1:G:631:VAL:HG12	1:G:632:GLY:N	2.30	0.45
1:H:374:PHE:CE2	1:H:595:SER:HB3	2.51	0.45
1:I:348:LEU:CD1	1:I:348:LEU:O	2.64	0.45
1:I:404:GLY:CA	1:I:509:ALA:HA	2.46	0.45
1:I:605:SER:HB2	1:I:650:ILE:HG21	1.99	0.45
1:I:605:SER:CB	1:I:650:ILE:HG23	2.27	0.45
1:J:176:VAL:CG1	1:J:177:ASN:N	2.80	0.45
1:J:344:LYS:O	1:J:345:SER:CB	2.64	0.45
1:J:386:PRO:O	1:J:588:LEU:HD21	2.17	0.45
1:J:404:GLY:HA3	1:J:509:ALA:HA	1.99	0.45
1:K:352:ASN:HD22	1:K:586:GLN:N	2.05	0.45
1:L:179:SER:N	1:L:182:GLU:OE2	2.43	0.45
1:L:300:ALA:O	1:L:301:ASN:CB	2.65	0.45
1:L:387:ARG:HH12	1:S:348:LEU:CG	2.30	0.45
1:L:431:PRO:CD	1:L:495:ASN:O	2.65	0.45
1:L:588:LEU:HD23	1:L:588:LEU:C	2.41	0.45
1:L:631:VAL:CG1	1:L:632:GLY:N	2.80	0.45
1:M:249:LEU:C	1:M:251:TYR:N	2.74	0.45
1:M:343:PRO:HG3	1:M:589:HIS:CD2	2.51	0.45
1:M:353:ARG:NH2	1:M:540:ILE:O	2.49	0.45
1:M:439:THR:CG2	1:M:457:ILE:CG1	2.91	0.45
1:N:332:LEU:CD2	1:N:334:HIS:H	2.26	0.45
1:N:431:PRO:CD	1:N:495:ASN:O	2.65	0.45
1:N:458:VAL:O	1:N:458:VAL:CG1	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:503:ILE:HB	1:N:548:VAL:HG11	1.98	0.45
1:N:655:ILE:C	1:N:655:ILE:HD12	2.41	0.45
1:O:368:PHE:HD1	1:O:547:VAL:HG21	1.82	0.45
1:P:176:VAL:CG1	1:P:177:ASN:N	2.80	0.45
1:P:404:GLY:HA3	1:P:509:ALA:HA	1.99	0.45
1:Q:179:SER:HB3	1:Q:182:GLU:CD	2.41	0.45
1:Q:189:PHE:C	1:Q:191:GLN:H	2.25	0.45
1:Q:386:PRO:O	1:Q:588:LEU:HD21	2.17	0.45
1:Q:451:TYR:HA	1:Q:458:VAL:N	2.32	0.45
1:Q:565:ILE:HG13	1:Q:629:SER:HB2	1.98	0.45
1:Q:631:VAL:CG1	1:Q:632:GLY:N	2.80	0.45
1:R:478:ASP:HB3	1:R:479:LYS:H	1.61	0.45
1:S:353:ARG:NH2	1:S:540:ILE:O	2.49	0.45
1:S:403:LEU:HG	1:S:514:ASN:HD21	1.82	0.45
1:S:503:ILE:HB	1:S:548:VAL:HG11	1.98	0.45
1:T:324:LEU:HD23	1:T:324:LEU:HA	1.72	0.45
1:T:458:VAL:O	1:T:458:VAL:CG1	2.64	0.45
1:A:343:PRO:HG3	1:A:589:HIS:CD2	2.51	0.45
1:B:189:PHE:C	1:B:191:GLN:H	2.25	0.45
1:B:350:ILE:CA	1:B:357:ASP:HA	2.43	0.45
1:B:424:THR:CG2	1:B:425:ILE:HD13	2.45	0.45
1:C:605:SER:HB2	1:C:650:ILE:HG21	1.99	0.45
1:D:179:SER:HB3	1:D:182:GLU:CD	2.41	0.45
1:D:249:LEU:C	1:D:251:TYR:N	2.74	0.45
1:D:261:VAL:CG1	1:F:260:GLN:HG3	2.47	0.45
1:D:297:ASN:ND2	1:D:298:PRO:HD2	2.31	0.45
1:D:348:LEU:CD1	1:D:348:LEU:O	2.64	0.45
1:D:385:THR:C	1:D:387:ARG:H	2.25	0.45
1:E:176:VAL:CG1	1:E:177:ASN:N	2.80	0.45
1:E:404:GLY:CA	1:E:509:ALA:HA	2.46	0.45
1:E:431:PRO:CD	1:E:495:ASN:O	2.65	0.45
1:F:192:ALA:O	1:F:197:LEU:HD21	2.16	0.45
1:G:404:GLY:CA	1:G:509:ALA:HA	2.46	0.45
1:G:469:CYS:CB	1:G:528:ALA:O	2.64	0.45
1:H:297:ASN:ND2	1:H:298:PRO:HD2	2.31	0.45
1:I:297:ASN:ND2	1:I:298:PRO:HD2	2.31	0.45
1:I:479:LYS:HE3	1:I:516:VAL:HB	1.99	0.45
1:J:189:PHE:C	1:J:191:GLN:H	2.25	0.45
1:J:343:PRO:HG3	1:J:589:HIS:CD2	2.51	0.45
1:J:473:GLN:HA	1:J:524:ASP:CG	2.41	0.45
1:J:519:ASP:CG	1:J:519:ASP:O	2.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:439:THR:HG1	1:K:457:ILE:CG1	2.28	0.45
1:L:222:SER:HG	1:T:229:GLY:C	2.22	0.45
1:L:565:ILE:HG13	1:L:629:SER:HB2	1.98	0.45
1:M:326:LYS:HG2	1:M:327:PRO:N	2.31	0.45
1:M:469:CYS:CB	1:M:528:ALA:O	2.64	0.45
1:M:605:SER:HB2	1:M:650:ILE:HG21	1.99	0.45
1:N:189:PHE:C	1:N:191:GLN:H	2.25	0.45
1:N:374:PHE:CE2	1:N:595:SER:HB3	2.51	0.45
1:N:474:ARG:HB2	1:N:524:ASP:CA	2.45	0.45
1:N:479:LYS:HE3	1:N:516:VAL:HB	1.99	0.45
1:N:519:ASP:O	1:N:519:ASP:CG	2.58	0.45
1:O:457:ILE:HD12	1:O:460:ASN:OD1	2.17	0.45
1:O:471:ALA:HA	1:O:527:LEU:HA	1.98	0.45
1:O:473:GLN:HA	1:O:524:ASP:CG	2.40	0.45
1:P:327:PRO:HA	1:P:328:PRO:HD3	1.89	0.45
1:P:605:SER:HB2	1:P:650:ILE:HG21	1.99	0.45
1:Q:473:GLN:HA	1:Q:524:ASP:CG	2.40	0.45
1:R:565:ILE:HG13	1:R:629:SER:HB2	1.98	0.45
1:R:602:PRO:CG	1:R:605:SER:CB	2.73	0.45
1:T:361:PHE:HE1	1:T:619:PHE:HZ	1.63	0.45
1:T:451:TYR:O	1:T:453:SER:N	2.44	0.45
1:A:458:VAL:O	1:A:458:VAL:CG1	2.64	0.45
1:D:457:ILE:HD12	1:D:460:ASN:OD1	2.17	0.45
1:E:478:ASP:HB3	1:E:479:LYS:H	1.61	0.45
1:F:251:TYR:CD1	1:F:252:PRO:HD2	2.52	0.45
1:F:346:SER:CB	1:F:643:LEU:HB2	2.45	0.45
1:F:403:LEU:HG	1:F:514:ASN:HD21	1.82	0.45
1:G:404:GLY:HA3	1:G:509:ALA:HA	1.99	0.45
1:G:457:ILE:HD12	1:G:460:ASN:OD1	2.17	0.45
1:H:179:SER:HB3	1:H:182:GLU:CD	2.41	0.45
1:H:242:PRO:HG2	1:H:288:VAL:HG21	1.98	0.45
1:H:361:PHE:HE1	1:H:619:PHE:HZ	1.63	0.45
1:H:386:PRO:O	1:H:588:LEU:HD21	2.17	0.45
1:H:424:THR:HG1	1:H:489:THR:HG23	1.78	0.45
1:I:179:SER:HB3	1:I:182:GLU:CD	2.41	0.45
1:I:343:PRO:HG3	1:I:589:HIS:CD2	2.51	0.45
1:I:404:GLY:HA3	1:I:509:ALA:HA	1.99	0.45
1:I:458:VAL:O	1:I:458:VAL:CG1	2.64	0.45
1:J:192:ALA:O	1:J:197:LEU:HD21	2.16	0.45
1:J:261:VAL:CG1	1:P:260:GLN:HG3	2.47	0.45
1:J:368:PHE:HD1	1:J:547:VAL:HG21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:447:THR:O	1:J:447:THR:OG1	2.33	0.45
1:K:176:VAL:CG1	1:K:177:ASN:N	2.80	0.45
1:K:179:SER:HB3	1:K:182:GLU:CD	2.41	0.45
1:K:242:PRO:HG2	1:K:288:VAL:HG21	1.98	0.45
1:K:251:TYR:CD1	1:K:252:PRO:HD2	2.52	0.45
1:K:479:LYS:HE3	1:K:516:VAL:HB	1.99	0.45
1:K:540:ILE:HD12	1:K:582:VAL:CG2	2.45	0.45
1:K:605:SER:HB2	1:K:650:ILE:HG21	1.99	0.45
1:K:631:VAL:CG1	1:K:632:GLY:N	2.80	0.45
1:L:179:SER:HB3	1:L:182:GLU:CD	2.41	0.45
1:L:353:ARG:NH2	1:L:540:ILE:O	2.49	0.45
1:L:386:PRO:O	1:L:588:LEU:HD21	2.17	0.45
1:M:424:THR:HG1	1:M:489:THR:HG23	1.79	0.45
1:M:471:ALA:HA	1:M:527:LEU:HA	1.97	0.45
1:M:479:LYS:HE3	1:M:516:VAL:HB	1.99	0.45
1:N:297:ASN:ND2	1:N:298:PRO:HD2	2.31	0.45
1:N:451:TYR:H	1:N:458:VAL:CB	2.16	0.45
1:O:171:SER:O	1:O:314:THR:N	2.43	0.45
1:P:297:ASN:ND2	1:P:298:PRO:HD2	2.31	0.45
1:Q:503:ILE:HB	1:Q:548:VAL:HG11	1.98	0.45
1:R:326:LYS:HG2	1:R:327:PRO:N	2.31	0.45
1:R:346:SER:CB	1:R:643:LEU:HB2	2.45	0.45
1:R:469:CYS:CB	1:R:528:ALA:O	2.65	0.45
1:T:242:PRO:HG2	1:T:288:VAL:HG21	1.98	0.45
1:T:354:TYR:HH	1:T:467:TYR:HE2	1.56	0.45
1:T:386:PRO:O	1:T:588:LEU:HD21	2.17	0.45
1:T:631:VAL:CG1	1:T:632:GLY:N	2.80	0.45
1:A:189:PHE:C	1:A:191:GLN:H	2.25	0.44
1:A:259:ARG:NH2	1:B:223:GLY:O	2.47	0.44
1:A:479:LYS:HE3	1:A:516:VAL:HB	1.99	0.44
1:A:578:ARG:C	1:A:579:SER:HG	2.16	0.44
1:B:471:ALA:HB2	1:B:527:LEU:CB	2.39	0.44
1:C:342:ILE:HD13	1:C:609:TYR:CD2	2.51	0.44
1:D:324:LEU:HD23	1:D:324:LEU:HA	1.72	0.44
1:D:424:THR:CG2	1:D:425:ILE:HD13	2.45	0.44
1:D:431:PRO:CD	1:D:495:ASN:O	2.65	0.44
1:E:249:LEU:C	1:E:251:TYR:N	2.74	0.44
1:E:251:TYR:CD1	1:E:252:PRO:HD2	2.52	0.44
1:E:326:LYS:HG2	1:E:327:PRO:N	2.31	0.44
1:E:479:LYS:HE3	1:E:516:VAL:HB	1.99	0.44
1:F:162:VAL:C	1:F:164:SER:H	2.23	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:431:PRO:CD	1:F:495:ASN:O	2.65	0.44
1:F:471:ALA:HA	1:F:527:LEU:HA	1.97	0.44
1:G:230:LYS:NZ	1:I:220:SER:OG	2.39	0.44
1:G:605:SER:HB2	1:G:650:ILE:HG21	1.99	0.44
1:H:189:PHE:C	1:H:191:GLN:H	2.25	0.44
1:H:326:LYS:HG2	1:H:327:PRO:N	2.31	0.44
1:H:403:LEU:HG	1:H:514:ASN:HD21	1.82	0.44
1:H:431:PRO:CD	1:H:495:ASN:O	2.65	0.44
1:H:479:LYS:HE3	1:H:516:VAL:HB	1.99	0.44
1:H:540:ILE:HD12	1:H:582:VAL:CG2	2.45	0.44
1:I:280:SER:HB2	1:I:334:HIS:CE1	2.52	0.44
1:I:469:CYS:CB	1:I:528:ALA:O	2.65	0.44
1:J:234:ILE:HD12	1:J:234:ILE:O	2.16	0.44
1:K:280:SER:HB2	1:K:334:HIS:CE1	2.52	0.44
1:K:368:PHE:HD1	1:K:547:VAL:HG21	1.82	0.44
1:K:431:PRO:CD	1:K:495:ASN:O	2.65	0.44
1:K:469:CYS:CB	1:K:528:ALA:O	2.65	0.44
1:K:478:ASP:HB3	1:K:479:LYS:H	1.61	0.44
1:L:383:TRP:CD1	1:L:383:TRP:C	2.96	0.44
1:L:437:VAL:CG1	1:L:438:THR:N	2.34	0.44
1:L:451:TYR:HA	1:L:458:VAL:N	2.32	0.44
1:L:540:ILE:HD12	1:L:582:VAL:CG2	2.45	0.44
1:N:348:LEU:O	1:N:348:LEU:CD1	2.64	0.44
1:N:588:LEU:HD23	1:N:588:LEU:C	2.41	0.44
1:O:251:TYR:CD1	1:O:252:PRO:HD2	2.52	0.44
1:O:324:LEU:HD23	1:O:324:LEU:HA	1.73	0.44
1:P:178:TRP:CZ2	1:P:295:LEU:HB2	2.51	0.44
1:P:457:ILE:HD12	1:P:460:ASN:OD1	2.17	0.44
1:P:602:PRO:HD2	1:P:650:ILE:HD13	1.98	0.44
1:Q:368:PHE:HD1	1:Q:547:VAL:HG21	1.82	0.44
1:Q:383:TRP:C	1:Q:383:TRP:CD1	2.95	0.44
1:R:385:THR:C	1:R:387:ARG:H	2.25	0.44
1:S:288:VAL:HG12	1:S:289:ILE:H	1.80	0.44
1:S:386:PRO:O	1:S:588:LEU:HD21	2.17	0.44
1:S:457:ILE:HD12	1:S:460:ASN:OD1	2.17	0.44
1:S:504:ASN:CB	1:S:505:PRO:CD	2.84	0.44
1:S:631:VAL:CG1	1:S:632:GLY:N	2.79	0.44
1:A:280:SER:HB2	1:A:334:HIS:CE1	2.52	0.44
1:A:328:PRO:HD2	1:L:252:PRO:HD3	1.90	0.44
1:A:368:PHE:HD1	1:A:547:VAL:HG21	1.82	0.44
1:A:383:TRP:C	1:A:383:TRP:CD1	2.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:469:CYS:CB	1:A:528:ALA:O	2.64	0.44
1:A:478:ASP:HB3	1:A:479:LYS:H	1.61	0.44
1:B:275:LEU:HG	1:F:275:LEU:HG	1.55	0.44
1:B:386:PRO:O	1:B:588:LEU:HD21	2.17	0.44
1:B:431:PRO:CD	1:B:495:ASN:O	2.65	0.44
1:B:503:ILE:HB	1:B:548:VAL:HG11	1.98	0.44
1:C:565:ILE:HG13	1:C:629:SER:HB2	1.98	0.44
1:E:221:ILE:O	1:E:221:ILE:HG13	2.15	0.44
1:E:288:VAL:HG12	1:E:289:ILE:H	1.80	0.44
1:E:342:ILE:HD13	1:E:609:TYR:CD2	2.52	0.44
1:F:326:LYS:HG2	1:F:327:PRO:N	2.31	0.44
1:H:176:VAL:CG1	1:H:177:ASN:N	2.80	0.44
1:H:451:TYR:C	1:H:453:SER:H	2.22	0.44
1:H:469:CYS:CB	1:H:528:ALA:O	2.64	0.44
1:I:189:PHE:C	1:I:191:GLN:H	2.25	0.44
1:I:350:ILE:CA	1:I:357:ASP:HA	2.43	0.44
1:I:565:ILE:HG13	1:I:629:SER:HB2	1.98	0.44
1:J:552:VAL:HG12	1:J:553:LEU:N	2.33	0.44
1:L:404:GLY:HA3	1:L:509:ALA:HA	1.99	0.44
1:M:190:LYS:HE3	1:M:652:LEU:HB3	1.42	0.44
1:M:271:LEU:HD22	1:Q:324:LEU:HD22	1.92	0.44
1:M:404:GLY:HA3	1:M:509:ALA:HA	1.99	0.44
1:M:610:ARG:NH2	1:M:648:MET:HE2	2.32	0.44
1:N:176:VAL:CG1	1:N:177:ASN:N	2.80	0.44
1:O:350:ILE:CA	1:O:357:ASP:HA	2.44	0.44
1:P:223:GLY:O	1:Q:259:ARG:NH2	2.47	0.44
1:Q:404:GLY:HA3	1:Q:509:ALA:HA	1.99	0.44
1:R:457:ILE:HD12	1:R:460:ASN:OD1	2.17	0.44
1:R:479:LYS:HE3	1:R:516:VAL:HB	1.99	0.44
1:R:577:ILE:O	1:R:578:ARG:CG	2.57	0.44
1:R:583:PHE:HB3	1:R:584:ASN:H	1.65	0.44
1:R:605:SER:HB2	1:R:650:ILE:HG21	1.99	0.44
1:S:176:VAL:CG1	1:S:177:ASN:N	2.80	0.44
1:S:300:ALA:O	1:S:301:ASN:CB	2.65	0.44
1:S:361:PHE:HE1	1:S:619:PHE:HZ	1.63	0.44
1:T:176:VAL:CG1	1:T:177:ASN:N	2.80	0.44
1:T:326:LYS:HG2	1:T:327:PRO:N	2.31	0.44
1:T:346:SER:CB	1:T:643:LEU:HB2	2.45	0.44
1:T:385:THR:C	1:T:387:ARG:H	2.25	0.44
1:T:437:VAL:CG1	1:T:438:THR:N	2.34	0.44
1:A:431:PRO:CD	1:A:495:ASN:O	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:451:TYR:H	1:A:458:VAL:CB	2.16	0.44
1:A:451:TYR:HA	1:A:458:VAL:N	2.32	0.44
1:A:457:ILE:HD12	1:A:460:ASN:OD1	2.17	0.44
1:A:605:SER:HB2	1:A:650:ILE:HG21	1.99	0.44
1:B:210:ALA:HB3	1:B:324:LEU:N	2.24	0.44
1:B:251:TYR:CD1	1:B:252:PRO:HD2	2.52	0.44
1:B:342:ILE:HD13	1:B:609:TYR:CD2	2.51	0.44
1:B:403:LEU:HG	1:B:514:ASN:HD21	1.82	0.44
1:B:458:VAL:O	1:B:458:VAL:CG1	2.65	0.44
1:C:261:VAL:CG1	1:S:260:GLN:HG3	2.47	0.44
1:C:353:ARG:NH2	1:C:540:ILE:O	2.49	0.44
1:C:458:VAL:O	1:C:458:VAL:CG1	2.65	0.44
1:C:552:VAL:HG12	1:C:553:LEU:N	2.33	0.44
1:D:398:LYS:N	1:D:403:LEU:CD2	2.76	0.44
1:D:403:LEU:HG	1:D:514:ASN:HD21	1.82	0.44
1:D:565:ILE:HG13	1:D:629:SER:HB2	1.98	0.44
1:D:588:LEU:HD23	1:D:588:LEU:C	2.42	0.44
1:E:223:GLY:O	1:L:259:ARG:NH2	2.47	0.44
1:E:324:LEU:HA	1:E:324:LEU:HD23	1.73	0.44
1:E:451:TYR:O	1:E:453:SER:N	2.44	0.44
1:E:605:SER:HB2	1:E:650:ILE:HG21	1.99	0.44
1:F:179:SER:HB3	1:F:182:GLU:CD	2.41	0.44
1:F:386:PRO:O	1:F:588:LEU:HD21	2.17	0.44
1:F:473:GLN:HA	1:F:524:ASP:CG	2.40	0.44
1:F:631:VAL:CG1	1:F:632:GLY:N	2.80	0.44
1:G:350:ILE:CA	1:G:357:ASP:HA	2.44	0.44
1:G:391:ILE:HD12	1:G:391:ILE:H	1.80	0.44
1:H:457:ILE:HD12	1:H:460:ASN:OD1	2.17	0.44
1:I:361:PHE:HE1	1:I:619:PHE:HZ	1.63	0.44
1:J:242:PRO:HG2	1:J:288:VAL:HG21	1.98	0.44
1:J:324:LEU:HD23	1:J:324:LEU:HA	1.72	0.44
1:K:457:ILE:HD12	1:K:460:ASN:OD1	2.17	0.44
1:L:176:VAL:CG1	1:L:177:ASN:N	2.80	0.44
1:L:251:TYR:CD1	1:L:252:PRO:HD2	2.52	0.44
1:O:218:ARG:CA	1:O:265:VAL:HG22	2.48	0.44
1:O:383:TRP:CD1	1:O:383:TRP:C	2.95	0.44
1:P:431:PRO:CD	1:P:495:ASN:O	2.65	0.44
1:P:540:ILE:HD12	1:P:582:VAL:CG2	2.45	0.44
1:Q:251:TYR:CD1	1:Q:252:PRO:HD2	2.52	0.44
1:Q:457:ILE:HD12	1:Q:460:ASN:OD1	2.17	0.44
1:Q:488:THR:OG1	1:Q:489:THR:N	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:300:ALA:O	1:R:301:ASN:CB	2.65	0.44
1:S:346:SER:CB	1:S:643:LEU:HB2	2.45	0.44
1:S:610:ARG:NH2	1:S:648:MET:HE2	2.32	0.44
1:T:210:ALA:HB3	1:T:324:LEU:N	2.24	0.44
1:A:249:LEU:C	1:A:251:TYR:N	2.74	0.44
1:A:503:ILE:HB	1:A:548:VAL:HG11	1.98	0.44
1:B:367:VAL:HG23	1:B:564:PRO:HB2	2.00	0.44
1:C:343:PRO:HG3	1:C:589:HIS:CD2	2.51	0.44
1:D:176:VAL:CG1	1:D:177:ASN:N	2.80	0.44
1:D:451:TYR:C	1:D:453:SER:H	2.22	0.44
1:D:540:ILE:HD12	1:D:582:VAL:CG2	2.45	0.44
1:D:552:VAL:HG12	1:D:553:LEU:N	2.33	0.44
1:E:610:ARG:NH2	1:E:648:MET:HE2	2.32	0.44
1:F:218:ARG:CA	1:F:265:VAL:HG22	2.48	0.44
1:F:328:PRO:CD	1:R:252:PRO:HD3	2.47	0.44
1:F:503:ILE:HB	1:F:548:VAL:HG11	1.98	0.44
1:G:300:ALA:O	1:G:301:ASN:CB	2.65	0.44
1:H:392:THR:HG23	1:H:409:THR:CG2	2.48	0.44
1:H:451:TYR:HA	1:H:458:VAL:N	2.31	0.44
1:I:503:ILE:HB	1:I:548:VAL:HG11	1.98	0.44
1:I:521:GLN:O	1:I:522:THR:C	2.61	0.44
1:I:552:VAL:HG12	1:I:553:LEU:N	2.33	0.44
1:I:584:ASN:HD22	1:I:584:ASN:HA	1.69	0.44
1:J:458:VAL:O	1:J:458:VAL:CG1	2.64	0.44
1:K:353:ARG:NH2	1:K:540:ILE:O	2.49	0.44
1:K:386:PRO:O	1:K:588:LEU:HD21	2.17	0.44
1:K:462:ASN:HB3	1:K:463:PHE:H	1.69	0.44
1:K:588:LEU:HD23	1:K:588:LEU:C	2.42	0.44
1:L:457:ILE:HD12	1:L:460:ASN:OD1	2.17	0.44
1:L:610:ARG:NH2	1:L:648:MET:HE2	2.32	0.44
1:M:179:SER:HB3	1:M:182:GLU:CD	2.42	0.44
1:M:374:PHE:CE2	1:M:595:SER:HB3	2.51	0.44
1:M:503:ILE:HB	1:M:548:VAL:HG11	1.98	0.44
1:N:251:TYR:CD1	1:N:252:PRO:HD2	2.52	0.44
1:P:288:VAL:HG12	1:P:289:ILE:H	1.80	0.44
1:P:403:LEU:HG	1:P:514:ASN:HD21	1.82	0.44
1:P:451:TYR:HA	1:P:458:VAL:N	2.32	0.44
1:P:478:ASP:HB3	1:P:479:LYS:H	1.61	0.44
1:P:578:ARG:C	1:P:579:SER:HG	2.14	0.44
1:Q:326:LYS:HG2	1:Q:327:PRO:N	2.31	0.44
1:Q:392:THR:HG23	1:Q:409:THR:CG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:398:LYS:N	1:Q:403:LEU:CD2	2.76	0.44
1:Q:437:VAL:HG13	1:Q:439:THR:HA	2.00	0.44
1:R:179:SER:HB3	1:R:182:GLU:CD	2.41	0.44
1:R:348:LEU:O	1:R:348:LEU:CD1	2.64	0.44
1:R:552:VAL:HG12	1:R:553:LEU:N	2.33	0.44
1:S:367:VAL:HG23	1:S:564:PRO:HB2	2.00	0.44
1:T:521:GLN:O	1:T:522:THR:C	2.61	0.44
1:A:230:LYS:NZ	1:B:220:SER:OG	2.39	0.44
1:A:251:TYR:CD1	1:A:252:PRO:HD2	2.52	0.44
1:A:387:ARG:HH12	1:E:348:LEU:CG	2.30	0.44
1:B:251:TYR:HD1	1:R:328:PRO:C	1.60	0.44
1:B:457:ILE:HD12	1:B:460:ASN:OD1	2.17	0.44
1:B:552:VAL:HG12	1:B:553:LEU:N	2.33	0.44
1:B:631:VAL:CG1	1:B:632:GLY:N	2.80	0.44
1:C:300:ALA:O	1:C:301:ASN:CB	2.65	0.44
1:C:631:VAL:CG1	1:C:632:GLY:N	2.80	0.44
1:C:649:GLY:C	1:C:650:ILE:HG13	2.43	0.44
1:D:218:ARG:CA	1:D:265:VAL:HG22	2.48	0.44
1:D:368:PHE:HD1	1:D:547:VAL:HG21	1.82	0.44
1:D:383:TRP:C	1:D:383:TRP:CD1	2.95	0.44
1:E:385:THR:C	1:E:387:ARG:H	2.25	0.44
1:E:392:THR:HG23	1:E:409:THR:CG2	2.48	0.44
1:F:387:ARG:HH12	1:N:348:LEU:CG	2.30	0.44
1:G:451:TYR:HA	1:G:458:VAL:N	2.32	0.44
1:H:588:LEU:HD23	1:H:588:LEU:C	2.42	0.44
1:J:507:LYS:C	1:J:508:ILE:HD13	2.43	0.44
1:J:605:SER:HB2	1:J:650:ILE:HG21	1.99	0.44
1:K:424:THR:HG1	1:K:489:THR:HG23	1.80	0.44
1:K:661:ILE:CG1	1:K:662:ARG:N	2.77	0.44
1:L:471:ALA:HB2	1:L:527:LEU:CB	2.39	0.44
1:L:521:GLN:O	1:L:522:THR:C	2.61	0.44
1:M:259:ARG:NH2	1:R:223:GLY:O	2.47	0.44
1:M:353:ARG:HB2	1:M:369:GLN:HE22	1.83	0.44
1:M:602:PRO:CG	1:M:605:SER:CB	2.73	0.44
1:N:349:TRP:O	1:N:350:ILE:CG1	2.66	0.44
1:O:176:VAL:CG1	1:O:177:ASN:N	2.80	0.44
1:O:431:PRO:CD	1:O:495:ASN:O	2.65	0.44
1:P:251:TYR:CD1	1:P:252:PRO:HD2	2.52	0.44
1:P:439:THR:C	1:P:440:SER:HG	2.23	0.44
1:Q:447:THR:O	1:Q:447:THR:OG1	2.33	0.44
1:R:218:ARG:CA	1:R:265:VAL:HG22	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:251:TYR:CD1	1:R:252:PRO:HD2	2.52	0.44
1:R:610:ARG:NH2	1:R:648:MET:HE2	2.32	0.44
1:S:275:LEU:HD13	1:T:275:LEU:HA	1.79	0.44
1:A:179:SER:HB3	1:A:182:GLU:CD	2.41	0.44
1:A:583:PHE:HB3	1:A:584:ASN:H	1.65	0.44
1:B:439:THR:HG1	1:B:457:ILE:CG1	2.24	0.44
1:C:431:PRO:CD	1:C:495:ASN:O	2.65	0.44
1:C:447:THR:O	1:C:447:THR:OG1	2.33	0.44
1:C:503:ILE:HB	1:C:548:VAL:HG11	1.98	0.44
1:D:353:ARG:HB2	1:D:369:GLN:HE22	1.83	0.44
1:D:392:THR:HG23	1:D:409:THR:CG2	2.48	0.44
1:D:460:ASN:C	1:D:461:THR:HG22	2.43	0.44
1:F:189:PHE:C	1:F:191:GLN:H	2.25	0.44
1:F:300:ALA:O	1:F:301:ASN:CB	2.65	0.44
1:F:332:LEU:CD2	1:F:334:HIS:H	2.26	0.44
1:F:350:ILE:CA	1:F:357:ASP:HA	2.43	0.44
1:F:649:GLY:C	1:F:650:ILE:HG13	2.43	0.44
1:G:210:ALA:HB3	1:G:324:LEU:N	2.24	0.44
1:H:166:TRP:HA	1:H:169:PHE:HE2	1.78	0.44
1:J:349:TRP:O	1:J:350:ILE:CG1	2.66	0.44
1:J:602:PRO:HD2	1:J:650:ILE:HD13	1.98	0.44
1:K:383:TRP:CD1	1:K:383:TRP:C	2.95	0.44
1:K:437:VAL:HG13	1:K:439:THR:HA	2.00	0.44
1:K:439:THR:CG2	1:K:457:ILE:CD1	2.87	0.44
1:L:280:SER:CB	1:L:334:HIS:CG	2.80	0.44
1:L:332:LEU:CD2	1:L:334:HIS:H	2.26	0.44
1:L:503:ILE:HB	1:L:548:VAL:HG11	1.98	0.44
1:M:252:PRO:HD3	1:Q:328:PRO:CD	2.47	0.44
1:M:275:LEU:HA	1:Q:275:LEU:HD13	1.79	0.44
1:M:368:PHE:HD1	1:M:547:VAL:HG21	1.82	0.44
1:M:507:LYS:C	1:M:508:ILE:HD13	2.43	0.44
1:N:605:SER:HB2	1:N:650:ILE:HG21	1.99	0.44
1:O:326:LYS:HG2	1:O:327:PRO:N	2.31	0.44
1:O:460:ASN:C	1:O:461:THR:HG22	2.43	0.44
1:P:368:PHE:HD1	1:P:547:VAL:HG21	1.82	0.44
1:P:385:THR:C	1:P:387:ARG:H	2.25	0.44
1:P:521:GLN:O	1:P:522:THR:C	2.61	0.44
1:Q:324:LEU:HD23	1:Q:324:LEU:HA	1.72	0.44
1:R:349:TRP:O	1:R:350:ILE:CG1	2.66	0.44
1:R:383:TRP:CD1	1:R:383:TRP:C	2.95	0.44
1:R:416:ILE:HG13	1:R:503:ILE:HD12	1.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:437:VAL:HG13	1:R:439:THR:HA	2.00	0.44
1:R:631:VAL:HG12	1:R:632:GLY:N	2.30	0.44
1:S:424:THR:CG2	1:S:425:ILE:HD13	2.45	0.44
1:S:605:SER:HB2	1:S:650:ILE:HG21	1.99	0.44
1:T:213:GLY:HA3	1:T:320:PHE:HA	2.00	0.44
1:T:431:PRO:CD	1:T:495:ASN:O	2.65	0.44
1:T:552:VAL:HG12	1:T:553:LEU:N	2.33	0.44
1:T:565:ILE:HG13	1:T:629:SER:HB2	1.98	0.44
1:A:297:ASN:ND2	1:A:298:PRO:HD2	2.31	0.44
1:A:403:LEU:HG	1:A:514:ASN:HD21	1.82	0.44
1:B:416:ILE:H	1:B:416:ILE:CD1	2.10	0.44
1:C:346:SER:CB	1:C:643:LEU:HB2	2.45	0.44
1:C:392:THR:HG23	1:C:409:THR:CG2	2.48	0.44
1:C:457:ILE:HD12	1:C:460:ASN:OD1	2.17	0.44
1:C:479:LYS:HE3	1:C:516:VAL:HB	1.99	0.44
1:D:288:VAL:HG12	1:D:289:ILE:H	1.80	0.44
1:D:326:LYS:HG2	1:D:327:PRO:N	2.31	0.44
1:D:404:GLY:HA3	1:D:509:ALA:HA	1.99	0.44
1:E:241:ASP:HA	1:E:242:PRO:HD3	1.84	0.44
1:F:176:VAL:CG1	1:F:177:ASN:N	2.80	0.44
1:G:383:TRP:CD1	1:G:383:TRP:C	2.96	0.44
1:G:552:VAL:HG12	1:G:553:LEU:N	2.33	0.44
1:H:227:PHE:O	1:T:224:SER:CB	2.66	0.44
1:H:383:TRP:C	1:H:383:TRP:CD1	2.95	0.44
1:H:460:ASN:C	1:H:461:THR:HG22	2.43	0.44
1:H:519:ASP:O	1:H:519:ASP:CG	2.58	0.44
1:I:260:GLN:HG3	1:M:261:VAL:CG1	2.47	0.44
1:I:346:SER:O	1:I:347:SER:C	2.61	0.44
1:I:392:THR:HG23	1:I:409:THR:CG2	2.48	0.44
1:J:346:SER:CB	1:J:643:LEU:HB2	2.45	0.44
1:J:479:LYS:HE3	1:J:516:VAL:HB	1.99	0.44
1:K:649:GLY:C	1:K:650:ILE:HG13	2.43	0.44
1:L:261:VAL:CG1	1:T:260:GLN:HG3	2.47	0.44
1:L:392:THR:HG23	1:L:409:THR:CG2	2.48	0.44
1:L:460:ASN:C	1:L:461:THR:HG22	2.43	0.44
1:L:480:LYS:HZ3	1:S:575:TYR:C	2.26	0.44
1:L:605:SER:HB2	1:L:650:ILE:HG21	1.99	0.44
1:M:176:VAL:CG1	1:M:177:ASN:N	2.80	0.44
1:M:251:TYR:CD1	1:M:252:PRO:HD2	2.52	0.44
1:M:350:ILE:CA	1:M:357:ASP:HA	2.44	0.44
1:M:521:GLN:O	1:M:522:THR:C	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:223:GLY:O	1:R:259:ARG:NH2	2.47	0.44
1:N:386:PRO:O	1:N:588:LEU:HD21	2.17	0.44
1:N:392:THR:HG23	1:N:409:THR:CG2	2.48	0.44
1:O:367:VAL:HG23	1:O:564:PRO:HB2	2.00	0.44
1:O:386:PRO:O	1:O:588:LEU:HD21	2.17	0.44
1:O:392:THR:HG23	1:O:409:THR:CG2	2.48	0.44
1:O:451:TYR:H	1:O:458:VAL:CB	2.16	0.44
1:O:552:VAL:HG12	1:O:553:LEU:N	2.33	0.44
1:P:346:SER:CB	1:P:643:LEU:HB2	2.45	0.44
1:P:424:THR:HG1	1:P:489:THR:HG23	1.79	0.44
1:P:447:THR:O	1:P:447:THR:OG1	2.33	0.44
1:P:507:LYS:C	1:P:508:ILE:HD13	2.43	0.44
1:Q:349:TRP:O	1:Q:350:ILE:CG1	2.66	0.44
1:Q:387:ARG:HH12	1:R:348:LEU:CG	2.30	0.44
1:R:403:LEU:HG	1:R:514:ASN:HD21	1.82	0.44
1:R:507:LYS:C	1:R:508:ILE:HD13	2.43	0.44
1:R:508:ILE:N	1:R:508:ILE:CD1	2.78	0.44
1:R:631:VAL:CG1	1:R:632:GLY:N	2.80	0.44
1:S:383:TRP:CD1	1:S:383:TRP:C	2.95	0.44
1:S:392:THR:HG23	1:S:409:THR:CG2	2.48	0.44
1:S:469:CYS:CB	1:S:528:ALA:O	2.65	0.44
1:S:649:GLY:C	1:S:650:ILE:HG13	2.43	0.44
1:T:457:ILE:HD12	1:T:460:ASN:OD1	2.17	0.44
1:A:227:PHE:O	1:B:224:SER:CB	2.66	0.44
1:A:300:ALA:O	1:A:301:ASN:CB	2.65	0.44
1:A:367:VAL:HG23	1:A:564:PRO:HB2	2.00	0.44
1:A:649:GLY:C	1:A:650:ILE:HG13	2.43	0.44
1:B:404:GLY:HA3	1:B:509:ALA:HA	1.98	0.44
1:B:540:ILE:HD12	1:B:582:VAL:CG2	2.45	0.44
1:B:563:HIS:HA	1:B:564:PRO:HD3	1.83	0.44
1:C:563:HIS:HA	1:C:564:PRO:HD3	1.83	0.44
1:D:251:TYR:CD1	1:D:252:PRO:HD2	2.52	0.44
1:E:275:LEU:HG	1:J:275:LEU:HG	1.55	0.44
1:E:367:VAL:HG23	1:E:564:PRO:HB2	2.00	0.44
1:F:349:TRP:O	1:F:350:ILE:CG1	2.66	0.44
1:F:392:THR:HG23	1:F:409:THR:CG2	2.48	0.44
1:G:176:VAL:CG1	1:G:177:ASN:N	2.80	0.44
1:G:189:PHE:C	1:G:191:GLN:H	2.25	0.44
1:G:346:SER:CB	1:G:643:LEU:HB2	2.45	0.44
1:G:385:THR:C	1:G:387:ARG:H	2.25	0.44
1:G:649:GLY:C	1:G:650:ILE:HG13	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:251:TYR:CD1	1:I:252:PRO:HD2	2.52	0.44
1:I:297:ASN:ND2	1:I:298:PRO:N	2.60	0.44
1:I:326:LYS:HG2	1:I:327:PRO:N	2.31	0.44
1:I:349:TRP:O	1:I:350:ILE:CG1	2.66	0.44
1:I:447:THR:O	1:I:447:THR:OG1	2.33	0.44
1:I:457:ILE:HD12	1:I:460:ASN:OD1	2.17	0.44
1:J:503:ILE:HB	1:J:548:VAL:HG11	1.98	0.44
1:K:204:LEU:HD22	1:K:322:PHE:CZ	2.53	0.44
1:K:504:ASN:CB	1:K:505:PRO:CD	2.83	0.44
1:M:349:TRP:O	1:M:350:ILE:CG1	2.66	0.44
1:M:383:TRP:C	1:M:383:TRP:CD1	2.95	0.44
1:N:224:SER:CB	1:R:227:PHE:O	2.66	0.44
1:N:280:SER:CB	1:N:334:HIS:CG	2.80	0.44
1:N:435:TYR:HD1	1:N:575:TYR:HH	1.65	0.44
1:N:437:VAL:HG13	1:N:439:THR:HA	2.00	0.44
1:N:457:ILE:HD12	1:N:460:ASN:OD1	2.17	0.44
1:O:437:VAL:HG13	1:O:439:THR:HA	2.00	0.44
1:P:392:THR:HG23	1:P:409:THR:CG2	2.48	0.44
1:Q:221:ILE:O	1:Q:221:ILE:HG13	2.15	0.44
1:Q:479:LYS:HE3	1:Q:516:VAL:HB	1.99	0.44
1:Q:480:LYS:HZ3	1:R:575:TYR:C	2.25	0.44
1:Q:509:ALA:C	1:Q:510:VAL:HG23	2.43	0.44
1:R:176:VAL:CG1	1:R:177:ASN:N	2.80	0.44
1:S:179:SER:N	1:S:182:GLU:OE2	2.43	0.44
1:S:437:VAL:HG13	1:S:439:THR:HA	2.00	0.44
1:S:521:GLN:O	1:S:522:THR:C	2.61	0.44
1:S:552:VAL:HG12	1:S:553:LEU:N	2.33	0.44
1:T:189:PHE:C	1:T:191:GLN:H	2.25	0.44
1:T:353:ARG:HB2	1:T:369:GLN:HE22	1.83	0.44
1:T:460:ASN:C	1:T:461:THR:HG22	2.43	0.44
1:A:204:LEU:HD22	1:A:322:PHE:CZ	2.53	0.44
1:A:224:SER:CB	1:J:227:PHE:O	2.66	0.44
1:A:552:VAL:HG12	1:A:553:LEU:N	2.33	0.44
1:B:383:TRP:C	1:B:383:TRP:CD1	2.95	0.44
1:B:479:LYS:HE3	1:B:516:VAL:HB	1.99	0.44
1:B:649:GLY:C	1:B:650:ILE:HG13	2.43	0.44
1:C:383:TRP:CD1	1:C:383:TRP:C	2.95	0.44
1:C:652:LEU:H	1:C:652:LEU:HD12	1.83	0.44
1:D:213:GLY:HA3	1:D:320:PHE:HA	2.00	0.44
1:D:301:ASN:HB3	1:D:302:ASP:H	1.51	0.44
1:D:437:VAL:HG13	1:D:439:THR:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:300:ALA:O	1:E:301:ASN:CB	2.65	0.44
1:E:507:LYS:C	1:E:508:ILE:HD13	2.43	0.44
1:F:353:ARG:HB2	1:F:369:GLN:HE22	1.83	0.44
1:F:449:ARG:O	1:F:450:GLU:OE2	2.36	0.44
1:F:509:ALA:C	1:F:510:VAL:HG23	2.43	0.44
1:G:261:VAL:CG1	1:N:260:GLN:HG3	2.47	0.44
1:G:368:PHE:HD1	1:G:547:VAL:HG21	1.82	0.44
1:G:437:VAL:HG13	1:G:439:THR:HA	2.00	0.44
1:G:509:ALA:C	1:G:510:VAL:HG23	2.43	0.44
1:H:204:LEU:HD22	1:H:322:PHE:CZ	2.53	0.44
1:H:503:ILE:HB	1:H:548:VAL:HG11	1.98	0.44
1:H:509:ALA:C	1:H:510:VAL:HG23	2.43	0.44
1:H:521:GLN:O	1:H:522:THR:C	2.61	0.44
1:I:221:ILE:O	1:I:221:ILE:HG13	2.15	0.44
1:I:327:PRO:HA	1:I:328:PRO:HD3	1.89	0.44
1:I:563:HIS:HA	1:I:564:PRO:HD3	1.83	0.44
1:J:251:TYR:CD1	1:J:252:PRO:HD2	2.52	0.44
1:J:353:ARG:HB2	1:J:369:GLN:HE22	1.83	0.44
1:J:649:GLY:C	1:J:650:ILE:HG13	2.43	0.44
1:K:349:TRP:O	1:K:350:ILE:CG1	2.66	0.44
1:K:404:GLY:HA3	1:K:509:ALA:HA	1.98	0.44
1:L:224:SER:CB	1:T:227:PHE:O	2.66	0.44
1:L:342:ILE:HD13	1:L:609:TYR:CD2	2.51	0.44
1:M:439:THR:CG2	1:M:457:ILE:CD1	2.87	0.44
1:N:509:ALA:C	1:N:510:VAL:HG23	2.43	0.44
1:N:552:VAL:HG12	1:N:553:LEU:N	2.33	0.44
1:O:189:PHE:C	1:O:191:GLN:H	2.25	0.44
1:O:346:SER:O	1:O:347:SER:C	2.61	0.44
1:O:354:TYR:HH	1:O:467:TYR:HE2	1.53	0.44
1:O:479:LYS:HE3	1:O:516:VAL:HB	1.99	0.44
1:P:224:SER:CB	1:Q:227:PHE:O	2.66	0.44
1:Q:166:TRP:C	1:Q:168:ALA:N	2.70	0.44
1:Q:439:THR:O	1:Q:440:SER:OG	2.26	0.44
1:Q:507:LYS:C	1:Q:508:ILE:HD13	2.43	0.44
1:Q:605:SER:HB2	1:Q:650:ILE:HG21	1.99	0.44
1:R:591:SER:O	1:R:592:ARG:C	2.61	0.44
1:S:332:LEU:CD2	1:S:334:HIS:H	2.26	0.44
1:S:510:VAL:CG1	1:S:511:PHE:N	2.45	0.44
1:T:649:GLY:C	1:T:650:ILE:HG13	2.43	0.44
1:B:275:LEU:HD13	1:F:275:LEU:HA	1.79	0.43
1:B:344:LYS:O	1:B:345:SER:CB	2.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:353:ARG:HB2	1:B:369:GLN:HE22	1.83	0.43
1:B:437:VAL:HG13	1:B:439:THR:HA	2.00	0.43
1:C:280:SER:HB2	1:C:334:HIS:CE1	2.52	0.43
1:E:368:PHE:HD1	1:E:547:VAL:HG21	1.82	0.43
1:E:521:GLN:O	1:E:522:THR:C	2.61	0.43
1:E:552:VAL:HG12	1:E:553:LEU:N	2.33	0.43
1:E:631:VAL:CG1	1:E:632:GLY:N	2.80	0.43
1:F:166:TRP:HA	1:F:169:PHE:HE2	1.77	0.43
1:F:404:GLY:HA3	1:F:509:ALA:HA	1.99	0.43
1:G:221:ILE:O	1:G:221:ILE:HG13	2.15	0.43
1:G:227:PHE:O	1:I:224:SER:CB	2.66	0.43
1:G:280:SER:HB2	1:G:334:HIS:CE1	2.52	0.43
1:G:431:PRO:CD	1:G:495:ASN:O	2.65	0.43
1:G:598:ASN:C	1:G:598:ASN:ND2	2.69	0.43
1:G:652:LEU:H	1:G:652:LEU:HD12	1.83	0.43
1:H:353:ARG:HB2	1:H:369:GLN:HE22	1.83	0.43
1:I:367:VAL:HG23	1:I:564:PRO:HB2	2.00	0.43
1:I:449:ARG:O	1:I:450:GLU:OE2	2.36	0.43
1:J:383:TRP:C	1:J:383:TRP:CD1	2.96	0.43
1:J:392:THR:HG23	1:J:409:THR:CG2	2.48	0.43
1:J:431:PRO:CD	1:J:495:ASN:O	2.65	0.43
1:J:507:LYS:H	1:J:508:ILE:CD1	2.30	0.43
1:K:297:ASN:ND2	1:K:298:PRO:HD2	2.31	0.43
1:K:438:THR:HG23	1:K:438:THR:O	2.18	0.43
1:L:479:LYS:HE3	1:L:516:VAL:HB	1.99	0.43
1:L:508:ILE:N	1:L:508:ILE:CD1	2.78	0.43
1:L:582:VAL:HG12	1:L:583:PHE:N	2.33	0.43
1:L:652:LEU:H	1:L:652:LEU:HD12	1.83	0.43
1:M:361:PHE:HE1	1:M:619:PHE:HZ	1.63	0.43
1:N:204:LEU:HD22	1:N:322:PHE:CZ	2.53	0.43
1:N:218:ARG:CA	1:N:265:VAL:HG22	2.48	0.43
1:N:346:SER:CB	1:N:643:LEU:HB2	2.45	0.43
1:N:402:LYS:HD3	1:N:511:PHE:CE2	2.34	0.43
1:O:179:SER:N	1:O:182:GLU:OE2	2.43	0.43
1:O:280:SER:CB	1:O:334:HIS:CG	2.80	0.43
1:P:249:LEU:C	1:P:251:TYR:N	2.74	0.43
1:P:261:VAL:CG1	1:Q:260:GLN:HG3	2.47	0.43
1:P:460:ASN:C	1:P:461:THR:HG22	2.43	0.43
1:Q:204:LEU:HD22	1:Q:322:PHE:CZ	2.53	0.43
1:Q:353:ARG:HB2	1:Q:369:GLN:HE22	1.83	0.43
1:Q:367:VAL:HG23	1:Q:564:PRO:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:449:ARG:O	1:Q:450:GLU:OE2	2.36	0.43
1:Q:521:GLN:O	1:Q:522:THR:C	2.61	0.43
1:R:189:PHE:C	1:R:191:GLN:H	2.25	0.43
1:R:431:PRO:CD	1:R:495:ASN:O	2.65	0.43
1:S:584:ASN:HD22	1:S:584:ASN:HA	1.69	0.43
1:T:280:SER:HB2	1:T:334:HIS:CE1	2.52	0.43
1:A:220:SER:OG	1:J:230:LYS:NZ	2.39	0.43
1:A:349:TRP:O	1:A:350:ILE:CG1	2.66	0.43
1:B:507:LYS:C	1:B:508:ILE:HD13	2.43	0.43
1:C:224:SER:CB	1:S:227:PHE:O	2.66	0.43
1:C:401:GLU:OE1	1:C:402:LYS:CB	2.67	0.43
1:C:449:ARG:O	1:C:450:GLU:OE2	2.36	0.43
1:E:353:ARG:HB2	1:E:369:GLN:HE22	1.83	0.43
1:E:437:VAL:HG13	1:E:439:THR:HA	2.00	0.43
1:E:655:ILE:HD12	1:E:655:ILE:O	2.18	0.43
1:F:521:GLN:O	1:F:522:THR:C	2.61	0.43
1:G:342:ILE:HD13	1:G:609:TYR:CD2	2.51	0.43
1:G:479:LYS:HE3	1:G:516:VAL:HB	1.99	0.43
1:H:224:SER:CB	1:O:227:PHE:O	2.66	0.43
1:H:300:ALA:O	1:H:301:ASN:CB	2.65	0.43
1:I:385:THR:C	1:I:387:ARG:H	2.25	0.43
1:I:437:VAL:HG13	1:I:439:THR:HA	2.00	0.43
1:I:649:GLY:C	1:I:650:ILE:HG13	2.43	0.43
1:J:204:LEU:HD22	1:J:322:PHE:CZ	2.53	0.43
1:J:346:SER:O	1:J:347:SER:C	2.61	0.43
1:J:460:ASN:C	1:J:461:THR:HG22	2.43	0.43
1:K:583:PHE:HB3	1:K:584:ASN:H	1.65	0.43
1:K:591:SER:O	1:K:592:ARG:C	2.61	0.43
1:K:652:LEU:H	1:K:652:LEU:HD12	1.83	0.43
1:L:346:SER:O	1:L:347:SER:C	2.61	0.43
1:L:367:VAL:HG23	1:L:564:PRO:HB2	2.00	0.43
1:L:507:LYS:C	1:L:508:ILE:HD13	2.43	0.43
1:L:575:TYR:C	1:S:480:LYS:HZ3	2.26	0.43
1:M:437:VAL:HG13	1:M:439:THR:HA	2.00	0.43
1:M:509:ALA:C	1:M:510:VAL:HG23	2.43	0.43
1:N:353:ARG:HB2	1:N:369:GLN:HE22	1.83	0.43
1:N:383:TRP:CD1	1:N:383:TRP:C	2.95	0.43
1:N:507:LYS:C	1:N:508:ILE:HD13	2.43	0.43
1:N:655:ILE:HD12	1:N:655:ILE:O	2.19	0.43
1:P:204:LEU:HD22	1:P:322:PHE:CZ	2.53	0.43
1:P:509:ALA:C	1:P:510:VAL:HG23	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:591:SER:O	1:P:592:ARG:C	2.61	0.43
1:Q:288:VAL:HG12	1:Q:289:ILE:H	1.80	0.43
1:Q:403:LEU:HG	1:Q:514:ASN:HD21	1.82	0.43
1:Q:439:THR:CG2	1:Q:457:ILE:CG1	2.91	0.43
1:Q:611:ILE:HD12	1:Q:619:PHE:HE1	1.82	0.43
1:R:367:VAL:HG23	1:R:564:PRO:HB2	2.00	0.43
1:S:189:PHE:C	1:S:191:GLN:H	2.25	0.43
1:S:251:TYR:CD1	1:S:252:PRO:HD2	2.52	0.43
1:S:346:SER:O	1:S:347:SER:C	2.61	0.43
1:S:478:ASP:HB3	1:S:479:LYS:H	1.61	0.43
1:T:344:LYS:O	1:T:345:SER:CB	2.64	0.43
1:T:346:SER:O	1:T:347:SER:C	2.61	0.43
1:T:438:THR:O	1:T:438:THR:HG23	2.18	0.43
1:T:582:VAL:HG12	1:T:583:PHE:N	2.33	0.43
1:T:591:SER:O	1:T:592:ARG:C	2.61	0.43
1:T:655:ILE:HD12	1:T:655:ILE:O	2.19	0.43
1:A:392:THR:HG23	1:A:409:THR:CG2	2.48	0.43
1:A:438:THR:O	1:A:438:THR:HG23	2.18	0.43
1:B:213:GLY:HA3	1:B:320:PHE:HA	2.00	0.43
1:B:218:ARG:CA	1:B:265:VAL:HG22	2.48	0.43
1:B:280:SER:HB2	1:B:334:HIS:CE1	2.52	0.43
1:B:387:ARG:HH12	1:D:348:LEU:CG	2.30	0.43
1:B:392:THR:HG23	1:B:409:THR:CG2	2.48	0.43
1:B:582:VAL:HG12	1:B:583:PHE:N	2.34	0.43
1:C:189:PHE:C	1:C:191:GLN:H	2.25	0.43
1:C:353:ARG:HB2	1:C:369:GLN:HE22	1.83	0.43
1:D:224:SER:CB	1:F:227:PHE:O	2.66	0.43
1:E:636:ILE:HD13	1:E:636:ILE:O	2.19	0.43
1:F:324:LEU:HD23	1:F:324:LEU:HA	1.72	0.43
1:F:447:THR:O	1:F:447:THR:OG1	2.33	0.43
1:F:601:LEU:HD12	1:F:650:ILE:HD11	1.48	0.43
1:G:460:ASN:C	1:G:461:THR:HG22	2.43	0.43
1:H:259:ARG:NH2	1:T:223:GLY:O	2.47	0.43
1:H:368:PHE:HD1	1:H:547:VAL:HG21	1.82	0.43
1:H:449:ARG:O	1:H:450:GLU:OE2	2.36	0.43
1:H:552:VAL:HG12	1:H:553:LEU:N	2.33	0.43
1:I:176:VAL:CG1	1:I:177:ASN:N	2.80	0.43
1:I:438:THR:O	1:I:438:THR:HG23	2.18	0.43
1:I:460:ASN:C	1:I:461:THR:HG22	2.43	0.43
1:I:471:ALA:HB2	1:I:527:LEU:CB	2.39	0.43
1:I:507:LYS:C	1:I:508:ILE:HD13	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:218:ARG:CA	1:J:265:VAL:HG22	2.48	0.43
1:J:457:ILE:HD12	1:J:460:ASN:OD1	2.17	0.43
1:K:326:LYS:HG2	1:K:327:PRO:N	2.31	0.43
1:K:460:ASN:C	1:K:461:THR:HG22	2.43	0.43
1:K:636:ILE:HD13	1:K:636:ILE:O	2.18	0.43
1:L:213:GLY:HA3	1:L:320:PHE:HA	2.00	0.43
1:L:649:GLY:C	1:L:650:ILE:HG13	2.43	0.43
1:M:449:ARG:O	1:M:450:GLU:OE2	2.36	0.43
1:N:521:GLN:O	1:N:522:THR:C	2.61	0.43
1:N:583:PHE:HB3	1:N:584:ASN:H	1.65	0.43
1:O:204:LEU:HD22	1:O:322:PHE:CZ	2.53	0.43
1:O:438:THR:O	1:O:438:THR:HG23	2.18	0.43
1:O:509:ALA:C	1:O:510:VAL:HG23	2.43	0.43
1:O:521:GLN:O	1:O:522:THR:C	2.61	0.43
1:P:353:ARG:HB2	1:P:369:GLN:HE22	1.83	0.43
1:P:383:TRP:C	1:P:383:TRP:CD1	2.95	0.43
1:P:424:THR:CG2	1:P:425:ILE:HD13	2.45	0.43
1:P:438:THR:O	1:P:438:THR:HG23	2.18	0.43
1:P:611:ILE:HD12	1:P:619:PHE:HE1	1.82	0.43
1:Q:175:SER:CB	1:Q:311:THR:HA	2.47	0.43
1:R:449:ARG:O	1:R:450:GLU:OE2	2.36	0.43
1:R:509:ALA:C	1:R:510:VAL:HG23	2.43	0.43
1:S:460:ASN:C	1:S:461:THR:HG22	2.43	0.43
1:T:241:ASP:HA	1:T:242:PRO:HD3	1.84	0.43
1:T:251:TYR:CD1	1:T:252:PRO:HD2	2.52	0.43
1:T:349:TRP:O	1:T:350:ILE:CG1	2.66	0.43
1:T:424:THR:CG2	1:T:425:ILE:HD13	2.45	0.43
1:T:437:VAL:HG13	1:T:439:THR:HA	2.00	0.43
1:T:449:ARG:O	1:T:450:GLU:OE2	2.36	0.43
1:A:213:GLY:HA3	1:A:320:PHE:HA	2.00	0.43
1:A:449:ARG:O	1:A:450:GLU:OE2	2.36	0.43
1:A:507:LYS:C	1:A:508:ILE:HD13	2.43	0.43
1:A:518:ARG:HD3	1:A:520:VAL:HG13	2.01	0.43
1:A:619:PHE:CD1	1:A:619:PHE:C	2.97	0.43
1:A:652:LEU:HD12	1:A:652:LEU:N	2.34	0.43
1:B:288:VAL:HG12	1:B:289:ILE:H	1.80	0.43
1:B:521:GLN:O	1:B:522:THR:C	2.61	0.43
1:B:605:SER:HB2	1:B:650:ILE:HG21	1.99	0.43
1:C:213:GLY:HA3	1:C:320:PHE:HA	2.00	0.43
1:C:227:PHE:O	1:K:224:SER:CB	2.66	0.43
1:C:424:THR:CG2	1:C:425:ILE:HD13	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:518:ARG:HD3	1:C:520:VAL:HG13	2.00	0.43
1:C:556:THR:HG21	1:C:628:PHE:CG	2.54	0.43
1:C:636:ILE:HD13	1:C:636:ILE:O	2.19	0.43
1:D:204:LEU:HD22	1:D:322:PHE:CZ	2.53	0.43
1:D:271:LEU:HB3	1:L:324:LEU:HD13	1.88	0.43
1:D:401:GLU:OE1	1:D:402:LYS:CB	2.67	0.43
1:D:403:LEU:H	1:D:403:LEU:HD12	1.84	0.43
1:D:509:ALA:C	1:D:510:VAL:HG23	2.43	0.43
1:D:556:THR:HG21	1:D:628:PHE:CG	2.54	0.43
1:E:227:PHE:O	1:O:224:SER:CB	2.66	0.43
1:E:424:THR:HG1	1:E:489:THR:HG23	1.82	0.43
1:E:451:TYR:H	1:E:458:VAL:CB	2.16	0.43
1:E:649:GLY:C	1:E:650:ILE:HG13	2.43	0.43
1:F:383:TRP:CD1	1:F:383:TRP:C	2.95	0.43
1:F:438:THR:O	1:F:438:THR:HG23	2.18	0.43
1:F:507:LYS:C	1:F:508:ILE:HD13	2.43	0.43
1:H:349:TRP:O	1:H:350:ILE:CG1	2.66	0.43
1:J:201:LEU:HD22	1:J:320:PHE:CE2	2.43	0.43
1:J:224:SER:CB	1:P:227:PHE:O	2.66	0.43
1:J:241:ASP:HA	1:J:242:PRO:HD3	1.85	0.43
1:J:652:LEU:HD12	1:J:652:LEU:H	1.83	0.43
1:K:395:ILE:HD11	1:K:524:ASP:HB2	2.01	0.43
1:L:349:TRP:O	1:L:350:ILE:CG1	2.66	0.43
1:L:552:VAL:HG12	1:L:553:LEU:N	2.33	0.43
1:L:603:PRO:HA	1:L:625:SER:HB3	2.01	0.43
1:L:652:LEU:HD12	1:L:652:LEU:N	2.34	0.43
1:M:416:ILE:H	1:M:416:ILE:CD1	2.10	0.43
1:M:457:ILE:HD12	1:M:460:ASN:OD1	2.17	0.43
1:N:424:THR:HG1	1:N:489:THR:HG23	1.77	0.43
1:N:591:SER:O	1:N:592:ARG:C	2.61	0.43
1:N:652:LEU:HD12	1:N:652:LEU:H	1.84	0.43
1:O:507:LYS:C	1:O:508:ILE:HD13	2.43	0.43
1:P:649:GLY:C	1:P:650:ILE:HG13	2.43	0.43
1:Q:354:TYR:HH	1:Q:467:TYR:HE2	1.53	0.43
1:Q:602:PRO:CG	1:Q:605:SER:CB	2.73	0.43
1:R:288:VAL:HG12	1:R:289:ILE:H	1.80	0.43
1:R:471:ALA:HB2	1:R:527:LEU:CB	2.39	0.43
1:R:573:LEU:HD21	1:R:580:ILE:CD1	2.49	0.43
1:R:603:PRO:HA	1:R:625:SER:HB3	2.01	0.43
1:T:218:ARG:CA	1:T:265:VAL:HG22	2.48	0.43
1:T:300:ALA:O	1:T:301:ASN:CB	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:176:VAL:CG1	1:A:177:ASN:N	2.80	0.43
1:A:324:LEU:HA	1:A:324:LEU:HD23	1.72	0.43
1:A:521:GLN:O	1:A:522:THR:C	2.61	0.43
1:A:556:THR:HG21	1:A:628:PHE:CG	2.54	0.43
1:B:509:ALA:C	1:B:510:VAL:HG23	2.43	0.43
1:C:437:VAL:HG13	1:C:439:THR:HA	2.00	0.43
1:C:521:GLN:O	1:C:522:THR:C	2.61	0.43
1:C:573:LEU:HD21	1:C:580:ILE:CD1	2.49	0.43
1:C:582:VAL:HG12	1:C:583:PHE:N	2.34	0.43
1:D:280:SER:O	1:D:282:THR:HG23	2.19	0.43
1:D:424:THR:HG1	1:D:489:THR:HG23	1.80	0.43
1:E:346:SER:CB	1:E:643:LEU:HB2	2.45	0.43
1:E:449:ARG:O	1:E:450:GLU:OE2	2.36	0.43
1:E:457:ILE:HD12	1:E:460:ASN:OD1	2.17	0.43
1:F:582:VAL:HG12	1:F:583:PHE:N	2.33	0.43
1:G:204:LEU:HD22	1:G:322:PHE:CZ	2.53	0.43
1:G:251:TYR:CD1	1:G:252:PRO:HD2	2.52	0.43
1:G:327:PRO:HA	1:G:328:PRO:HD3	1.89	0.43
1:G:518:ARG:HD3	1:G:520:VAL:HG13	2.01	0.43
1:H:251:TYR:CD1	1:H:252:PRO:HD2	2.52	0.43
1:H:309:ILE:C	1:H:309:ILE:HD12	2.44	0.43
1:H:403:LEU:H	1:H:403:LEU:HD12	1.84	0.43
1:H:603:PRO:HA	1:H:625:SER:HB3	2.01	0.43
1:I:175:SER:CB	1:I:311:THR:HA	2.47	0.43
1:J:210:ALA:HB3	1:J:324:LEU:N	2.24	0.43
1:J:280:SER:O	1:J:282:THR:HG23	2.19	0.43
1:J:309:ILE:C	1:J:309:ILE:HD12	2.44	0.43
1:J:451:TYR:O	1:J:453:SER:N	2.44	0.43
1:J:480:LYS:HB3	1:J:481:ILE:H	1.50	0.43
1:J:655:ILE:HD12	1:J:655:ILE:O	2.19	0.43
1:K:401:GLU:OE1	1:K:402:LYS:CB	2.67	0.43
1:K:403:LEU:HD12	1:K:403:LEU:H	1.84	0.43
1:K:552:VAL:HG12	1:K:553:LEU:N	2.33	0.43
1:L:484:THR:CG2	1:L:485:ALA:H	2.27	0.43
1:L:611:ILE:HD12	1:L:619:PHE:HE1	1.81	0.43
1:M:431:PRO:CD	1:M:495:ASN:O	2.65	0.43
1:M:601:LEU:CD1	1:M:650:ILE:CG1	2.62	0.43
1:O:241:ASP:HA	1:O:242:PRO:HD3	1.84	0.43
1:O:353:ARG:HB2	1:O:369:GLN:HE22	1.83	0.43
1:O:636:ILE:HD13	1:O:636:ILE:O	2.19	0.43
1:O:652:LEU:HD12	1:O:652:LEU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:449:ARG:O	1:P:450:GLU:OE2	2.36	0.43
1:P:552:VAL:HG12	1:P:553:LEU:N	2.33	0.43
1:P:563:HIS:HA	1:P:564:PRO:HD3	1.83	0.43
1:Q:460:ASN:C	1:Q:461:THR:HG22	2.43	0.43
1:Q:552:VAL:HG12	1:Q:553:LEU:N	2.33	0.43
1:R:204:LEU:HD22	1:R:322:PHE:CZ	2.53	0.43
1:R:213:GLY:HA3	1:R:320:PHE:HA	2.00	0.43
1:R:342:ILE:HD13	1:R:609:TYR:CD2	2.51	0.43
1:R:518:ARG:HD3	1:R:520:VAL:HG13	2.01	0.43
1:R:649:GLY:C	1:R:650:ILE:HG13	2.43	0.43
1:R:655:ILE:HD12	1:R:655:ILE:O	2.19	0.43
1:S:221:ILE:O	1:S:221:ILE:HG13	2.15	0.43
1:S:353:ARG:HB2	1:S:369:GLN:HE22	1.83	0.43
1:S:603:PRO:HA	1:S:625:SER:HB3	2.01	0.43
1:A:584:ASN:HD22	1:A:584:ASN:HA	1.69	0.43
1:B:349:TRP:O	1:B:350:ILE:CG1	2.66	0.43
1:B:439:THR:CG2	1:B:457:ILE:CG1	2.91	0.43
1:B:447:THR:O	1:B:447:THR:OG1	2.33	0.43
1:B:460:ASN:C	1:B:461:THR:HG22	2.43	0.43
1:B:619:PHE:C	1:B:619:PHE:CD1	2.97	0.43
1:B:655:ILE:HD12	1:B:655:ILE:O	2.19	0.43
1:C:176:VAL:CG1	1:C:177:ASN:N	2.80	0.43
1:C:367:VAL:HG23	1:C:564:PRO:HB2	2.00	0.43
1:C:504:ASN:CB	1:C:505:PRO:CD	2.83	0.43
1:D:367:VAL:HG23	1:D:564:PRO:HB2	2.00	0.43
1:D:582:VAL:HG12	1:D:583:PHE:N	2.33	0.43
1:E:218:ARG:CA	1:E:265:VAL:HG22	2.48	0.43
1:E:224:SER:CB	1:L:227:PHE:O	2.66	0.43
1:E:344:LYS:O	1:E:345:SER:CB	2.64	0.43
1:E:401:GLU:OE1	1:E:402:LYS:CB	2.67	0.43
1:E:460:ASN:C	1:E:461:THR:HG22	2.43	0.43
1:E:509:ALA:C	1:E:510:VAL:HG23	2.43	0.43
1:E:582:VAL:HG12	1:E:583:PHE:N	2.34	0.43
1:E:641:PHE:N	1:E:642:PRO:CD	2.82	0.43
1:F:224:SER:CB	1:K:227:PHE:O	2.66	0.43
1:F:451:TYR:HA	1:F:458:VAL:N	2.32	0.43
1:F:470:GLY:N	1:F:530:LEU:HD13	2.31	0.43
1:F:556:THR:HG21	1:F:628:PHE:CG	2.54	0.43
1:F:601:LEU:CD1	1:F:650:ILE:CG1	2.62	0.43
1:F:661:ILE:CG1	1:F:662:ARG:N	2.77	0.43
1:G:260:GLN:HG3	1:I:261:VAL:CG1	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:346:SER:O	1:G:347:SER:C	2.61	0.43
1:G:392:THR:HG23	1:G:409:THR:CG2	2.48	0.43
1:G:471:ALA:HB2	1:G:527:LEU:CB	2.39	0.43
1:G:521:GLN:O	1:G:522:THR:C	2.61	0.43
1:G:603:PRO:HA	1:G:625:SER:HB3	2.01	0.43
1:H:649:GLY:C	1:H:650:ILE:HG13	2.43	0.43
1:H:655:ILE:HD12	1:H:655:ILE:O	2.19	0.43
1:I:218:ARG:CA	1:I:265:VAL:HG22	2.48	0.43
1:I:259:ARG:NH2	1:M:223:GLY:O	2.47	0.43
1:I:280:SER:O	1:I:282:THR:HG23	2.19	0.43
1:I:509:ALA:C	1:I:510:VAL:HG23	2.43	0.43
1:I:591:SER:O	1:I:592:ARG:C	2.61	0.43
1:I:636:ILE:HD13	1:I:636:ILE:O	2.19	0.43
1:I:655:ILE:HD12	1:I:655:ILE:O	2.19	0.43
1:J:449:ARG:O	1:J:450:GLU:OE2	2.36	0.43
1:K:521:GLN:O	1:K:522:THR:C	2.61	0.43
1:K:655:ILE:HD12	1:K:655:ILE:O	2.19	0.43
1:L:353:ARG:HB2	1:L:369:GLN:HE22	1.83	0.43
1:L:472:LEU:C	1:L:472:LEU:CD1	2.92	0.43
1:M:179:SER:N	1:M:182:GLU:OE2	2.43	0.43
1:M:392:THR:HG23	1:M:409:THR:CG2	2.48	0.43
1:M:401:GLU:OE1	1:M:402:LYS:CB	2.67	0.43
1:M:552:VAL:HG12	1:M:553:LEU:N	2.33	0.43
1:N:261:VAL:CG1	1:R:260:GLN:HG3	2.47	0.43
1:N:309:ILE:C	1:N:309:ILE:HD12	2.44	0.43
1:N:447:THR:O	1:N:447:THR:OG1	2.33	0.43
1:N:540:ILE:HD12	1:N:582:VAL:CG2	2.45	0.43
1:N:556:THR:HG21	1:N:628:PHE:CG	2.54	0.43
1:N:603:PRO:HA	1:N:625:SER:HB3	2.01	0.43
1:N:652:LEU:HD12	1:N:652:LEU:N	2.34	0.43
1:O:210:ALA:HB3	1:O:324:LEU:N	2.24	0.43
1:O:309:ILE:C	1:O:309:ILE:HD12	2.44	0.43
1:O:349:TRP:O	1:O:350:ILE:CG1	2.66	0.43
1:O:649:GLY:C	1:O:650:ILE:HG13	2.43	0.43
1:P:346:SER:O	1:P:347:SER:C	2.61	0.43
1:P:349:TRP:O	1:P:350:ILE:CG1	2.66	0.43
1:P:395:ILE:HD11	1:P:524:ASP:HB2	2.01	0.43
1:P:437:VAL:HG13	1:P:439:THR:HA	2.00	0.43
1:P:479:LYS:HE3	1:P:516:VAL:HB	1.99	0.43
1:P:556:THR:HG21	1:P:628:PHE:CG	2.54	0.43
1:P:573:LEU:HD21	1:P:580:ILE:CD1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:652:LEU:HD12	1:P:652:LEU:N	2.34	0.43
1:Q:255:LEU:HD12	1:Q:255:LEU:N	2.34	0.43
1:Q:346:SER:O	1:Q:347:SER:C	2.61	0.43
1:Q:518:ARG:HD3	1:Q:520:VAL:HG13	2.01	0.43
1:Q:556:THR:HG21	1:Q:628:PHE:CG	2.54	0.43
1:Q:655:ILE:HD12	1:Q:655:ILE:O	2.18	0.43
1:R:346:SER:O	1:R:347:SER:C	2.61	0.43
1:R:636:ILE:HD13	1:R:636:ILE:O	2.19	0.43
1:S:218:ARG:CA	1:S:265:VAL:HG22	2.48	0.43
1:S:349:TRP:O	1:S:350:ILE:CG1	2.66	0.43
1:S:403:LEU:H	1:S:403:LEU:HD12	1.84	0.43
1:S:479:LYS:HE3	1:S:516:VAL:HB	1.99	0.43
1:S:518:ARG:HD3	1:S:520:VAL:HG13	2.01	0.43
1:S:652:LEU:HD12	1:S:652:LEU:N	2.34	0.43
1:T:179:SER:N	1:T:182:GLU:OE2	2.43	0.43
1:T:392:THR:HG23	1:T:409:THR:CG2	2.48	0.43
1:T:424:THR:HG1	1:T:489:THR:HG23	1.78	0.43
1:T:451:TYR:H	1:T:458:VAL:CB	2.16	0.43
1:T:527:LEU:HD23	1:T:527:LEU:N	2.34	0.43
1:T:602:PRO:CG	1:T:605:SER:CB	2.73	0.43
1:T:619:PHE:CD1	1:T:619:PHE:C	2.97	0.43
1:A:509:ALA:C	1:A:510:VAL:HG23	2.43	0.43
1:A:527:LEU:HD23	1:A:527:LEU:N	2.34	0.43
1:A:652:LEU:HD12	1:A:652:LEU:H	1.83	0.43
1:B:403:LEU:H	1:B:403:LEU:HD12	1.84	0.43
1:B:556:THR:HG21	1:B:628:PHE:CG	2.54	0.43
1:B:652:LEU:HD12	1:B:652:LEU:N	2.34	0.43
1:C:255:LEU:HD12	1:C:255:LEU:N	2.34	0.43
1:C:280:SER:O	1:C:282:THR:HG23	2.19	0.43
1:C:297:ASN:ND2	1:C:298:PRO:HD2	2.31	0.43
1:C:349:TRP:O	1:C:350:ILE:CG1	2.66	0.43
1:C:398:LYS:N	1:C:403:LEU:CD2	2.76	0.43
1:D:300:ALA:O	1:D:301:ASN:CB	2.65	0.43
1:D:449:ARG:O	1:D:450:GLU:OE2	2.36	0.43
1:D:507:LYS:C	1:D:508:ILE:HD13	2.43	0.43
1:E:349:TRP:O	1:E:350:ILE:CG1	2.66	0.43
1:E:460:ASN:ND2	1:E:461:THR:H	2.17	0.43
1:E:573:LEU:HD21	1:E:580:ILE:CD1	2.49	0.43
1:E:603:PRO:HA	1:E:625:SER:HB3	2.01	0.43
1:F:460:ASN:C	1:F:461:THR:HG22	2.43	0.43
1:F:471:ALA:HB2	1:F:527:LEU:CB	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:507:LYS:H	1:F:508:ILE:CD1	2.31	0.43
1:F:652:LEU:HD12	1:F:652:LEU:H	1.84	0.43
1:F:655:ILE:HD12	1:F:655:ILE:O	2.19	0.43
1:G:309:ILE:C	1:G:309:ILE:HD12	2.44	0.43
1:G:349:TRP:O	1:G:350:ILE:CG1	2.66	0.43
1:G:367:VAL:HG23	1:G:564:PRO:HB2	2.00	0.43
1:G:401:GLU:OE1	1:G:402:LYS:CB	2.67	0.43
1:G:527:LEU:HD23	1:G:527:LEU:N	2.34	0.43
1:G:556:THR:HG21	1:G:628:PHE:CG	2.54	0.43
1:G:591:SER:O	1:G:592:ARG:C	2.62	0.43
1:G:607:ALA:HB3	1:G:623:ILE:CG1	2.49	0.43
1:H:255:LEU:HD12	1:H:255:LEU:N	2.34	0.43
1:H:280:SER:HB2	1:H:334:HIS:CE1	2.52	0.43
1:H:556:THR:HG21	1:H:628:PHE:CG	2.54	0.43
1:H:591:SER:O	1:H:592:ARG:C	2.61	0.43
1:H:652:LEU:HD12	1:H:652:LEU:N	2.34	0.43
1:I:324:LEU:HA	1:I:324:LEU:HD23	1.73	0.43
1:J:367:VAL:HG23	1:J:564:PRO:HB2	2.00	0.43
1:J:424:THR:CG2	1:J:425:ILE:HD13	2.45	0.43
1:J:437:VAL:HG13	1:J:439:THR:HA	2.00	0.43
1:J:509:ALA:C	1:J:510:VAL:HG23	2.43	0.43
1:J:599:TYR:CD1	1:J:599:TYR:N	2.87	0.43
1:K:175:SER:CB	1:K:311:THR:HA	2.47	0.43
1:K:213:GLY:HA3	1:K:320:PHE:HA	2.00	0.43
1:K:309:ILE:C	1:K:309:ILE:HD12	2.44	0.43
1:K:397:GLN:HG3	1:K:521:GLN:C	2.44	0.43
1:L:507:LYS:H	1:L:508:ILE:CD1	2.31	0.43
1:L:619:PHE:CD1	1:L:619:PHE:C	2.97	0.43
1:M:213:GLY:HA3	1:M:320:PHE:HA	2.00	0.43
1:M:227:PHE:O	1:R:224:SER:CB	2.66	0.43
1:M:255:LEU:HD12	1:M:255:LEU:N	2.34	0.43
1:M:324:LEU:HD23	1:M:324:LEU:HA	1.73	0.43
1:M:385:THR:C	1:M:387:ARG:H	2.25	0.43
1:M:403:LEU:HG	1:M:514:ASN:HD21	1.82	0.43
1:M:556:THR:HG21	1:M:628:PHE:CG	2.54	0.43
1:M:582:VAL:HG12	1:M:583:PHE:N	2.34	0.43
1:N:518:ARG:HD3	1:N:520:VAL:HG13	2.01	0.43
1:O:401:GLU:OE1	1:O:402:LYS:CB	2.67	0.43
1:O:449:ARG:O	1:O:450:GLU:OE2	2.36	0.43
1:O:619:PHE:CD1	1:O:619:PHE:C	2.97	0.43
1:P:367:VAL:HG23	1:P:564:PRO:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:374:PHE:CD2	1:P:380:THR:HB	2.54	0.43
1:P:439:THR:O	1:P:440:SER:OG	2.26	0.43
1:P:652:LEU:HD12	1:P:652:LEU:H	1.83	0.43
1:Q:462:ASN:HB3	1:Q:463:PHE:H	1.70	0.43
1:Q:591:SER:O	1:Q:592:ARG:C	2.61	0.43
1:Q:619:PHE:CD1	1:Q:619:PHE:C	2.97	0.43
1:R:171:SER:O	1:R:314:THR:N	2.43	0.43
1:R:425:ILE:HA	1:R:465:SER:OG	2.19	0.43
1:R:460:ASN:ND2	1:R:461:THR:H	2.17	0.43
1:R:641:PHE:N	1:R:642:PRO:CD	2.82	0.43
1:R:652:LEU:H	1:R:652:LEU:HD12	1.84	0.43
1:S:354:TYR:HH	1:S:467:TYR:HE2	1.55	0.43
1:S:507:LYS:C	1:S:508:ILE:HD13	2.43	0.43
1:S:573:LEU:HD21	1:S:580:ILE:CD1	2.49	0.43
1:S:652:LEU:HD12	1:S:652:LEU:H	1.83	0.43
1:T:395:ILE:HD11	1:T:524:ASP:HB2	2.01	0.43
1:T:401:GLU:OE1	1:T:402:LYS:CB	2.67	0.43
1:T:479:LYS:HE3	1:T:516:VAL:HB	1.99	0.43
1:A:385:THR:C	1:A:387:ARG:H	2.25	0.43
1:A:437:VAL:HG13	1:A:439:THR:HA	2.00	0.43
1:A:591:SER:O	1:A:592:ARG:C	2.61	0.43
1:B:203:HIS:NE2	1:D:203:HIS:NE2	2.31	0.43
1:B:395:ILE:HD11	1:B:524:ASP:HB2	2.01	0.43
1:B:397:GLN:HG3	1:B:521:GLN:C	2.44	0.43
1:C:204:LEU:HD22	1:C:322:PHE:CZ	2.53	0.43
1:C:509:ALA:C	1:C:510:VAL:HG23	2.43	0.43
1:C:527:LEU:HD23	1:C:527:LEU:N	2.34	0.43
1:D:252:PRO:HD3	1:L:328:PRO:CD	2.47	0.43
1:D:438:THR:HG23	1:D:438:THR:O	2.18	0.43
1:D:573:LEU:HD21	1:D:580:ILE:CD1	2.49	0.43
1:E:309:ILE:C	1:E:309:ILE:HD12	2.44	0.43
1:E:438:THR:O	1:E:438:THR:HG23	2.18	0.43
1:E:591:SER:O	1:E:592:ARG:C	2.61	0.43
1:F:190:LYS:HE3	1:F:652:LEU:HB3	1.42	0.43
1:F:573:LEU:HD21	1:F:580:ILE:CD1	2.49	0.43
1:F:607:ALA:HB3	1:F:623:ILE:CG1	2.49	0.43
1:G:439:THR:CG2	1:G:457:ILE:CD1	2.87	0.43
1:G:507:LYS:H	1:G:508:ILE:CD1	2.30	0.43
1:H:175:SER:CB	1:H:311:THR:HA	2.47	0.43
1:H:179:SER:N	1:H:182:GLU:OE2	2.43	0.43
1:H:280:SER:CB	1:H:334:HIS:CG	2.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:507:LYS:C	1:H:508:ILE:HD13	2.43	0.43
1:I:460:ASN:ND2	1:I:461:THR:H	2.17	0.43
1:I:527:LEU:HD23	1:I:527:LEU:N	2.34	0.43
1:I:582:VAL:HG12	1:I:583:PHE:N	2.34	0.43
1:J:385:THR:C	1:J:387:ARG:H	2.25	0.43
1:J:521:GLN:O	1:J:522:THR:C	2.61	0.43
1:K:392:THR:HG23	1:K:409:THR:CG2	2.48	0.43
1:K:449:ARG:O	1:K:450:GLU:OE2	2.36	0.43
1:K:573:LEU:HD21	1:K:580:ILE:CD1	2.49	0.43
1:K:619:PHE:C	1:K:619:PHE:CD1	2.97	0.43
1:L:218:ARG:CA	1:L:265:VAL:HG22	2.48	0.43
1:L:509:ALA:C	1:L:510:VAL:HG23	2.43	0.43
1:L:556:THR:HG21	1:L:628:PHE:CG	2.54	0.43
1:L:591:SER:O	1:L:592:ARG:C	2.61	0.43
1:L:641:PHE:N	1:L:642:PRO:CD	2.82	0.43
1:M:425:ILE:HA	1:M:465:SER:OG	2.19	0.43
1:M:641:PHE:N	1:M:642:PRO:CD	2.82	0.43
1:M:649:GLY:C	1:M:650:ILE:HG13	2.43	0.43
1:N:166:TRP:C	1:N:168:ALA:N	2.70	0.43
1:N:255:LEU:HD12	1:N:255:LEU:N	2.34	0.43
1:N:395:ILE:HD11	1:N:524:ASP:HB2	2.01	0.43
1:N:460:ASN:C	1:N:461:THR:HG22	2.43	0.43
1:O:385:THR:C	1:O:387:ARG:H	2.25	0.43
1:O:573:LEU:HD21	1:O:580:ILE:CD1	2.49	0.43
1:O:610:ARG:NH2	1:O:648:MET:HE2	2.32	0.43
1:O:655:ILE:HD12	1:O:655:ILE:O	2.19	0.43
1:P:584:ASN:HD22	1:P:584:ASN:HA	1.69	0.43
1:P:641:PHE:N	1:P:642:PRO:CD	2.82	0.43
1:Q:641:PHE:N	1:Q:642:PRO:CD	2.82	0.43
1:R:255:LEU:HD12	1:R:255:LEU:N	2.34	0.43
1:R:353:ARG:HB2	1:R:369:GLN:HE22	1.83	0.43
1:R:392:THR:HG23	1:R:409:THR:CG2	2.48	0.43
1:R:438:THR:O	1:R:438:THR:HG23	2.18	0.43
1:R:460:ASN:C	1:R:461:THR:HG22	2.43	0.43
1:S:395:ILE:HD11	1:S:524:ASP:HB2	2.01	0.43
1:S:449:ARG:O	1:S:450:GLU:OE2	2.36	0.43
1:T:280:SER:O	1:T:282:THR:HG23	2.19	0.43
1:T:374:PHE:CD2	1:T:380:THR:HB	2.54	0.43
1:T:636:ILE:HD13	1:T:636:ILE:O	2.19	0.43
1:A:280:SER:O	1:A:282:THR:HG23	2.19	0.43
1:A:309:ILE:C	1:A:309:ILE:HD12	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:342:ILE:HD13	1:A:609:TYR:CD2	2.51	0.43
1:A:460:ASN:C	1:A:461:THR:HG22	2.43	0.43
1:B:204:LEU:HD22	1:B:322:PHE:CZ	2.53	0.43
1:B:227:PHE:O	1:Q:224:SER:CB	2.66	0.43
1:B:484:THR:CG2	1:B:485:ALA:H	2.27	0.43
1:B:508:ILE:N	1:B:508:ILE:CD1	2.78	0.43
1:B:641:PHE:N	1:B:642:PRO:CD	2.82	0.43
1:C:438:THR:O	1:C:438:THR:HG23	2.18	0.43
1:C:460:ASN:C	1:C:461:THR:HG22	2.43	0.43
1:C:583:PHE:HB3	1:C:584:ASN:H	1.65	0.43
1:D:275:LEU:HG	1:L:275:LEU:HG	1.55	0.43
1:D:439:THR:HG1	1:D:457:ILE:H	1.61	0.43
1:D:649:GLY:C	1:D:650:ILE:HG13	2.43	0.43
1:E:179:SER:N	1:E:182:GLU:OE2	2.43	0.43
1:F:204:LEU:HD22	1:F:322:PHE:CZ	2.53	0.43
1:F:518:ARG:HD3	1:F:520:VAL:HG13	2.01	0.43
1:F:575:TYR:C	1:N:480:LYS:HZ3	2.26	0.43
1:G:218:ARG:CA	1:G:265:VAL:HG22	2.48	0.43
1:G:280:SER:O	1:G:282:THR:HG23	2.19	0.43
1:G:582:VAL:HG12	1:G:583:PHE:N	2.34	0.43
1:G:655:ILE:HD12	1:G:655:ILE:O	2.19	0.43
1:H:342:ILE:HD13	1:H:609:TYR:CD2	2.51	0.43
1:H:582:VAL:HG12	1:H:583:PHE:N	2.34	0.43
1:H:602:PRO:CG	1:H:605:SER:CB	2.73	0.43
1:I:573:LEU:HD21	1:I:580:ILE:CD1	2.49	0.43
1:I:599:TYR:N	1:I:599:TYR:CD1	2.87	0.43
1:I:652:LEU:HD12	1:I:652:LEU:N	2.34	0.43
1:J:190:LYS:HE3	1:J:652:LEU:HB3	1.42	0.43
1:J:425:ILE:HA	1:J:465:SER:OG	2.19	0.43
1:J:460:ASN:ND2	1:J:461:THR:H	2.17	0.43
1:J:556:THR:HG21	1:J:628:PHE:CG	2.54	0.43
1:J:610:ARG:NH2	1:J:648:MET:HE2	2.32	0.43
1:K:301:ASN:HB3	1:K:302:ASP:H	1.51	0.43
1:K:374:PHE:CD2	1:K:380:THR:HB	2.54	0.43
1:K:411:PHE:CD1	1:K:418:ASP:N	2.87	0.43
1:K:425:ILE:HA	1:K:465:SER:OG	2.19	0.43
1:K:607:ALA:HB3	1:K:623:ILE:CG1	2.49	0.43
1:K:610:ARG:NH2	1:K:648:MET:HE2	2.32	0.43
1:K:641:PHE:N	1:K:642:PRO:CD	2.82	0.43
1:L:280:SER:OG	1:L:334:HIS:CD2	2.42	0.43
1:L:385:THR:C	1:L:387:ARG:H	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:401:GLU:OE1	1:L:402:LYS:CB	2.67	0.43
1:L:425:ILE:HA	1:L:465:SER:OG	2.19	0.43
1:M:204:LEU:HD22	1:M:322:PHE:CZ	2.53	0.43
1:M:300:ALA:O	1:M:301:ASN:CB	2.65	0.43
1:M:460:ASN:C	1:M:461:THR:HG22	2.43	0.43
1:M:507:LYS:H	1:M:508:ILE:CD1	2.31	0.43
1:N:213:GLY:HA3	1:N:320:PHE:HA	2.00	0.43
1:N:342:ILE:HD13	1:N:609:TYR:CD2	2.51	0.43
1:N:582:VAL:HG12	1:N:583:PHE:N	2.34	0.43
1:O:255:LEU:HD12	1:O:255:LEU:N	2.34	0.43
1:O:460:ASN:ND2	1:O:461:THR:H	2.17	0.43
1:O:478:ASP:HB3	1:O:479:LYS:H	1.61	0.43
1:O:518:ARG:HD3	1:O:520:VAL:HG13	2.01	0.43
1:O:601:LEU:HD12	1:O:650:ILE:HD11	1.48	0.43
1:O:605:SER:HB2	1:O:650:ILE:HG21	1.99	0.43
1:P:213:GLY:HA3	1:P:320:PHE:HA	2.00	0.43
1:P:397:GLN:HG3	1:P:521:GLN:C	2.44	0.43
1:P:401:GLU:OE1	1:P:402:LYS:CB	2.67	0.43
1:P:425:ILE:HA	1:P:465:SER:OG	2.19	0.43
1:P:599:TYR:N	1:P:599:TYR:CD1	2.87	0.43
1:P:610:ARG:NH2	1:P:648:MET:HE2	2.32	0.43
1:Q:385:THR:O	1:Q:387:ARG:N	2.41	0.43
1:R:221:ILE:O	1:R:221:ILE:HG13	2.15	0.43
1:S:275:LEU:CD1	1:T:274:THR:C	2.65	0.43
1:S:280:SER:O	1:S:282:THR:HG23	2.19	0.43
1:S:324:LEU:HD13	1:T:271:LEU:HB3	1.88	0.43
1:S:374:PHE:CD2	1:S:380:THR:HB	2.54	0.43
1:S:401:GLU:OE1	1:S:402:LYS:CB	2.67	0.43
1:S:438:THR:HG23	1:S:438:THR:O	2.18	0.43
1:S:619:PHE:C	1:S:619:PHE:CD1	2.97	0.43
1:T:460:ASN:ND2	1:T:461:THR:H	2.17	0.43
1:T:470:GLY:N	1:T:530:LEU:HD13	2.31	0.43
1:T:508:ILE:N	1:T:508:ILE:CD1	2.78	0.43
1:A:383:TRP:CZ3	1:A:503:ILE:HG21	2.54	0.43
1:A:403:LEU:H	1:A:403:LEU:HD12	1.84	0.43
1:A:460:ASN:ND2	1:A:461:THR:H	2.17	0.43
1:B:374:PHE:CD2	1:B:380:THR:HB	2.54	0.43
1:C:599:TYR:N	1:C:599:TYR:CD1	2.87	0.43
1:C:619:PHE:CD1	1:C:619:PHE:C	2.97	0.43
1:D:591:SER:O	1:D:592:ARG:C	2.61	0.43
1:D:652:LEU:HD12	1:D:652:LEU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:425:ILE:HA	1:E:465:SER:OG	2.19	0.43
1:E:508:ILE:N	1:E:508:ILE:CD1	2.78	0.43
1:E:599:TYR:N	1:E:599:TYR:CD1	2.87	0.43
1:E:607:ALA:HB3	1:E:623:ILE:CG1	2.49	0.43
1:E:611:ILE:HD12	1:E:619:PHE:HE1	1.81	0.43
1:E:619:PHE:CD1	1:E:619:PHE:C	2.97	0.43
1:E:652:LEU:HD12	1:E:652:LEU:N	2.34	0.43
1:F:424:THR:CG2	1:F:425:ILE:HD13	2.45	0.43
1:F:451:TYR:O	1:F:453:SER:N	2.44	0.43
1:F:508:ILE:N	1:F:508:ILE:CD1	2.78	0.43
1:F:591:SER:O	1:F:592:ARG:C	2.61	0.43
1:G:224:SER:CB	1:N:227:PHE:O	2.66	0.43
1:G:255:LEU:HD12	1:G:255:LEU:N	2.34	0.43
1:G:611:ILE:HD12	1:G:619:PHE:HE1	1.82	0.43
1:H:218:ARG:CA	1:H:265:VAL:HG22	2.48	0.43
1:H:518:ARG:HD3	1:H:520:VAL:HG13	2.01	0.43
1:H:573:LEU:HD21	1:H:580:ILE:CD1	2.49	0.43
1:I:383:TRP:C	1:I:383:TRP:CD1	2.95	0.43
1:I:401:GLU:OE1	1:I:402:LYS:CB	2.67	0.43
1:J:395:ILE:HD11	1:J:524:ASP:HB2	2.01	0.43
1:J:397:GLN:HG3	1:J:521:GLN:C	2.44	0.43
1:J:471:ALA:HB2	1:J:527:LEU:CB	2.39	0.43
1:K:346:SER:O	1:K:347:SER:C	2.61	0.43
1:K:509:ALA:C	1:K:510:VAL:HG23	2.43	0.43
1:L:255:LEU:HD12	1:L:255:LEU:N	2.34	0.43
1:L:324:LEU:HD23	1:L:324:LEU:HA	1.72	0.43
1:L:518:ARG:HD3	1:L:520:VAL:HG13	2.01	0.43
1:M:280:SER:O	1:M:282:THR:HG23	2.19	0.43
1:M:342:ILE:HD13	1:M:609:TYR:CD2	2.51	0.43
1:M:354:TYR:HH	1:M:467:TYR:HE2	1.55	0.43
1:M:403:LEU:H	1:M:403:LEU:HD12	1.84	0.43
1:M:599:TYR:N	1:M:599:TYR:CD1	2.87	0.43
1:M:619:PHE:C	1:M:619:PHE:CD1	2.97	0.43
1:M:652:LEU:H	1:M:652:LEU:HD12	1.83	0.43
1:N:280:SER:O	1:N:282:THR:HG23	2.19	0.43
1:N:374:PHE:CD2	1:N:380:THR:HB	2.54	0.43
1:N:438:THR:O	1:N:438:THR:HG23	2.18	0.43
1:N:449:ARG:O	1:N:450:GLU:OE2	2.36	0.43
1:N:573:LEU:HD21	1:N:580:ILE:CD1	2.49	0.43
1:N:649:GLY:C	1:N:650:ILE:HG13	2.43	0.43
1:O:213:GLY:HA3	1:O:320:PHE:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:395:ILE:HD11	1:O:524:ASP:HB2	2.01	0.43
1:O:599:TYR:CD1	1:O:599:TYR:N	2.87	0.43
1:P:350:ILE:CA	1:P:357:ASP:HA	2.43	0.43
1:P:403:LEU:H	1:P:403:LEU:HD12	1.84	0.43
1:P:460:ASN:ND2	1:P:461:THR:H	2.17	0.43
1:P:508:ILE:N	1:P:508:ILE:CD1	2.78	0.43
1:Q:397:GLN:HG3	1:Q:521:GLN:C	2.44	0.43
1:Q:425:ILE:HA	1:Q:465:SER:OG	2.19	0.43
1:Q:460:ASN:ND2	1:Q:461:THR:H	2.17	0.43
1:Q:484:THR:CG2	1:Q:485:ALA:H	2.27	0.43
1:Q:603:PRO:HA	1:Q:625:SER:HB3	2.01	0.43
1:Q:649:GLY:C	1:Q:650:ILE:HG13	2.43	0.43
1:R:601:LEU:CG	1:R:602:PRO:HD2	2.49	0.43
1:S:262:GLU:HA	1:S:262:GLU:OE1	2.19	0.43
1:S:460:ASN:ND2	1:S:461:THR:H	2.17	0.43
1:S:470:GLY:N	1:S:530:LEU:HD13	2.31	0.43
1:T:204:LEU:HD22	1:T:322:PHE:CZ	2.53	0.43
1:T:605:SER:HB2	1:T:650:ILE:HG21	1.99	0.43
1:A:255:LEU:HD12	1:A:255:LEU:N	2.34	0.42
1:A:328:PRO:CD	1:L:252:PRO:HD3	2.47	0.42
1:A:328:PRO:HB2	1:L:251:TYR:CD1	2.42	0.42
1:A:582:VAL:HG12	1:A:583:PHE:N	2.34	0.42
1:A:636:ILE:HD13	1:A:636:ILE:O	2.19	0.42
1:A:655:ILE:HD12	1:A:655:ILE:O	2.18	0.42
1:C:368:PHE:HD1	1:C:547:VAL:HG21	1.82	0.42
1:C:385:THR:HG23	1:C:386:PRO:HD2	2.01	0.42
1:C:403:LEU:HD12	1:C:403:LEU:H	1.84	0.42
1:D:166:TRP:C	1:D:168:ALA:N	2.70	0.42
1:D:221:ILE:O	1:D:221:ILE:HG13	2.15	0.42
1:D:255:LEU:HD12	1:D:255:LEU:N	2.34	0.42
1:D:309:ILE:C	1:D:309:ILE:HD12	2.44	0.42
1:D:346:SER:O	1:D:347:SER:C	2.61	0.42
1:D:655:ILE:HD12	1:D:655:ILE:O	2.19	0.42
1:E:324:LEU:CD2	1:J:271:LEU:CG	2.97	0.42
1:E:346:SER:O	1:E:347:SER:C	2.61	0.42
1:E:395:ILE:HD11	1:E:524:ASP:HB2	2.01	0.42
1:E:435:TYR:O	1:E:436:ALA:C	2.62	0.42
1:F:255:LEU:N	1:F:255:LEU:HD12	2.34	0.42
1:F:437:VAL:HG13	1:F:439:THR:HA	2.00	0.42
1:F:479:LYS:HE3	1:F:516:VAL:HB	1.99	0.42
1:F:527:LEU:HD23	1:F:527:LEU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:213:GLY:HA3	1:G:320:PHE:HA	2.00	0.42
1:G:397:GLN:HG3	1:G:521:GLN:C	2.44	0.42
1:H:346:SER:O	1:H:347:SER:C	2.61	0.42
1:H:367:VAL:HG23	1:H:564:PRO:HB2	2.00	0.42
1:H:397:GLN:HG3	1:H:521:GLN:C	2.44	0.42
1:H:437:VAL:HG13	1:H:439:THR:HA	2.00	0.42
1:H:601:LEU:CG	1:H:602:PRO:HD2	2.49	0.42
1:I:230:LYS:NZ	1:M:220:SER:OG	2.39	0.42
1:I:425:ILE:HA	1:I:465:SER:OG	2.19	0.42
1:I:508:ILE:N	1:I:508:ILE:CD1	2.78	0.42
1:J:300:ALA:O	1:J:301:ASN:CB	2.65	0.42
1:J:383:TRP:CZ3	1:J:503:ILE:HG21	2.54	0.42
1:J:518:ARG:HD3	1:J:520:VAL:HG13	2.01	0.42
1:J:573:LEU:HD21	1:J:580:ILE:CD1	2.49	0.42
1:K:262:GLU:HA	1:K:262:GLU:OE1	2.19	0.42
1:K:385:THR:C	1:K:387:ARG:H	2.25	0.42
1:K:386:PRO:HG3	1:K:595:SER:OG	2.19	0.42
1:K:403:LEU:HG	1:K:514:ASN:HD21	1.82	0.42
1:K:451:TYR:H	1:K:458:VAL:CB	2.16	0.42
1:K:599:TYR:CD1	1:K:599:TYR:N	2.87	0.42
1:L:309:ILE:C	1:L:309:ILE:HD12	2.44	0.42
1:L:438:THR:HG23	1:L:438:THR:O	2.18	0.42
1:L:462:ASN:HB3	1:L:463:PHE:H	1.69	0.42
1:L:599:TYR:N	1:L:599:TYR:CD1	2.87	0.42
1:M:218:ARG:CA	1:M:265:VAL:HG22	2.48	0.42
1:M:367:VAL:HG23	1:M:564:PRO:HB2	2.00	0.42
1:M:527:LEU:HD23	1:M:527:LEU:N	2.34	0.42
1:M:573:LEU:HD21	1:M:580:ILE:CD1	2.49	0.42
1:M:611:ILE:HD12	1:M:619:PHE:HE1	1.82	0.42
1:M:652:LEU:HD12	1:M:652:LEU:N	2.34	0.42
1:N:293:ASN:O	1:N:294:ASP:C	2.62	0.42
1:N:403:LEU:H	1:N:403:LEU:HD12	1.84	0.42
1:N:460:ASN:ND2	1:N:461:THR:H	2.17	0.42
1:N:636:ILE:HD13	1:N:636:ILE:O	2.19	0.42
1:O:221:ILE:O	1:O:221:ILE:HG13	2.15	0.42
1:O:582:VAL:HG12	1:O:583:PHE:N	2.33	0.42
1:P:259:ARG:O	1:Q:259:ARG:CZ	2.67	0.42
1:P:309:ILE:C	1:P:309:ILE:HD12	2.44	0.42
1:P:342:ILE:HD13	1:P:609:TYR:CD2	2.51	0.42
1:Q:309:ILE:C	1:Q:309:ILE:HD12	2.44	0.42
1:Q:584:ASN:HD22	1:Q:584:ASN:HA	1.69	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:636:ILE:HD13	1:Q:636:ILE:O	2.19	0.42
1:R:385:THR:HG23	1:R:386:PRO:HD2	2.01	0.42
1:R:401:GLU:OE1	1:R:402:LYS:CB	2.66	0.42
1:R:435:TYR:O	1:R:436:ALA:C	2.62	0.42
1:S:255:LEU:HD12	1:S:255:LEU:N	2.34	0.42
1:S:641:PHE:N	1:S:642:PRO:CD	2.82	0.42
1:T:297:ASN:ND2	1:T:298:PRO:HD2	2.31	0.42
1:T:367:VAL:HG23	1:T:564:PRO:HB2	2.00	0.42
1:T:397:GLN:HG3	1:T:521:GLN:C	2.44	0.42
1:T:403:LEU:H	1:T:403:LEU:HD12	1.84	0.42
1:T:430:THR:O	1:T:462:ASN:ND2	2.53	0.42
1:T:556:THR:HG21	1:T:628:PHE:CG	2.54	0.42
1:A:374:PHE:CD2	1:A:380:THR:HB	2.54	0.42
1:A:463:PHE:O	1:A:466:MET:HG2	2.20	0.42
1:B:346:SER:O	1:B:347:SER:C	2.61	0.42
1:B:350:ILE:O	1:B:350:ILE:HG13	2.20	0.42
1:B:518:ARG:HD3	1:B:520:VAL:HG13	2.01	0.42
1:B:573:LEU:HD21	1:B:580:ILE:CD1	2.49	0.42
1:B:591:SER:O	1:B:592:ARG:C	2.61	0.42
1:C:262:GLU:HA	1:C:262:GLU:OE1	2.19	0.42
1:C:374:PHE:CD2	1:C:380:THR:HB	2.54	0.42
1:C:425:ILE:HA	1:C:465:SER:OG	2.19	0.42
1:C:507:LYS:C	1:C:508:ILE:HD13	2.43	0.42
1:D:227:PHE:O	1:S:224:SER:CB	2.66	0.42
1:D:349:TRP:O	1:D:350:ILE:CG1	2.66	0.42
1:E:213:GLY:HA3	1:E:320:PHE:HA	2.01	0.42
1:E:280:SER:O	1:E:282:THR:HG23	2.19	0.42
1:E:383:TRP:C	1:E:383:TRP:CD1	2.95	0.42
1:F:309:ILE:C	1:F:309:ILE:HD12	2.44	0.42
1:F:327:PRO:HG3	1:R:236:VAL:HA	2.01	0.42
1:F:367:VAL:HG23	1:F:564:PRO:HB2	2.00	0.42
1:F:374:PHE:CD2	1:F:380:THR:HB	2.54	0.42
1:F:435:TYR:O	1:F:436:ALA:C	2.62	0.42
1:F:550:ILE:O	1:F:551:SER:HB3	2.20	0.42
1:F:563:HIS:HA	1:F:564:PRO:HD3	1.83	0.42
1:F:652:LEU:HD12	1:F:652:LEU:N	2.34	0.42
1:G:385:THR:HG23	1:G:386:PRO:HD2	2.02	0.42
1:G:460:ASN:ND2	1:G:461:THR:H	2.17	0.42
1:G:619:PHE:C	1:G:619:PHE:CD1	2.97	0.42
1:H:395:ILE:HD11	1:H:524:ASP:HB2	2.01	0.42
1:H:425:ILE:HA	1:H:465:SER:OG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:652:LEU:HD12	1:H:652:LEU:H	1.83	0.42
1:I:204:LEU:HD22	1:I:322:PHE:CZ	2.53	0.42
1:I:556:THR:HG21	1:I:628:PHE:CG	2.54	0.42
1:I:641:PHE:N	1:I:642:PRO:CD	2.82	0.42
1:J:601:LEU:CG	1:J:602:PRO:HD2	2.49	0.42
1:K:189:PHE:C	1:K:191:GLN:H	2.25	0.42
1:K:255:LEU:HD12	1:K:255:LEU:N	2.34	0.42
1:K:300:ALA:O	1:K:301:ASN:CB	2.65	0.42
1:K:556:THR:HG21	1:K:628:PHE:CG	2.54	0.42
1:K:582:VAL:HG12	1:K:583:PHE:N	2.34	0.42
1:L:204:LEU:HD22	1:L:322:PHE:CZ	2.53	0.42
1:L:386:PRO:HG3	1:L:595:SER:OG	2.19	0.42
1:L:636:ILE:O	1:L:636:ILE:HD13	2.19	0.42
1:M:395:ILE:HD11	1:M:524:ASP:HB2	2.01	0.42
1:M:438:THR:O	1:M:438:THR:HG23	2.18	0.42
1:N:401:GLU:OE1	1:N:402:LYS:CB	2.67	0.42
1:N:462:ASN:HB3	1:N:463:PHE:H	1.69	0.42
1:N:619:PHE:C	1:N:619:PHE:CD1	2.97	0.42
1:O:383:TRP:CZ3	1:O:503:ILE:HG21	2.54	0.42
1:P:344:LYS:O	1:P:345:SER:CB	2.64	0.42
1:P:518:ARG:HD3	1:P:520:VAL:HG13	2.01	0.42
1:Q:293:ASN:O	1:Q:294:ASP:C	2.63	0.42
1:Q:300:ALA:O	1:Q:301:ASN:CB	2.65	0.42
1:Q:401:GLU:OE1	1:Q:402:LYS:CB	2.67	0.42
1:Q:582:VAL:HG12	1:Q:583:PHE:N	2.33	0.42
1:Q:601:LEU:CG	1:Q:602:PRO:HD2	2.49	0.42
1:Q:652:LEU:H	1:Q:652:LEU:HD12	1.83	0.42
1:R:398:LYS:N	1:R:403:LEU:CD2	2.76	0.42
1:R:521:GLN:O	1:R:522:THR:C	2.61	0.42
1:R:619:PHE:C	1:R:619:PHE:CD1	2.97	0.42
1:S:386:PRO:HG3	1:S:595:SER:OG	2.20	0.42
1:S:397:GLN:HG3	1:S:521:GLN:C	2.44	0.42
1:T:507:LYS:C	1:T:508:ILE:HD13	2.43	0.42
1:T:603:PRO:HA	1:T:625:SER:HB3	2.01	0.42
1:A:259:ARG:CZ	1:B:259:ARG:O	2.67	0.42
1:A:610:ARG:NH2	1:A:648:MET:HE2	2.32	0.42
1:A:641:PHE:N	1:A:642:PRO:CD	2.82	0.42
1:B:271:LEU:CG	1:R:324:LEU:CD2	2.97	0.42
1:B:309:ILE:C	1:B:309:ILE:HD12	2.44	0.42
1:B:346:SER:CB	1:B:643:LEU:HB2	2.45	0.42
1:B:383:TRP:CZ3	1:B:503:ILE:HG21	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:393:VAL:HG11	1:B:406:GLY:O	2.20	0.42
1:B:425:ILE:HA	1:B:465:SER:OG	2.19	0.42
1:B:481:ILE:O	1:B:481:ILE:HG22	2.20	0.42
1:B:652:LEU:HD12	1:B:652:LEU:H	1.84	0.42
1:C:463:PHE:O	1:C:466:MET:HG2	2.20	0.42
1:D:175:SER:CB	1:D:311:THR:HA	2.47	0.42
1:D:425:ILE:HA	1:D:465:SER:OG	2.19	0.42
1:D:460:ASN:ND2	1:D:461:THR:H	2.17	0.42
1:D:463:PHE:O	1:D:466:MET:HG2	2.19	0.42
1:D:472:LEU:C	1:D:472:LEU:CD1	2.92	0.42
1:D:521:GLN:O	1:D:522:THR:C	2.61	0.42
1:D:601:LEU:CG	1:D:602:PRO:HD2	2.49	0.42
1:D:636:ILE:O	1:D:636:ILE:HD13	2.19	0.42
1:D:652:LEU:HD12	1:D:652:LEU:H	1.83	0.42
1:E:204:LEU:HD22	1:E:322:PHE:CZ	2.53	0.42
1:E:327:PRO:CD	1:J:237:PRO:CG	2.55	0.42
1:E:518:ARG:HD3	1:E:520:VAL:HG13	2.01	0.42
1:F:193:LEU:HD12	1:F:193:LEU:HA	1.78	0.42
1:F:213:GLY:HA3	1:F:320:PHE:HA	2.00	0.42
1:F:346:SER:O	1:F:347:SER:C	2.61	0.42
1:F:424:THR:HG1	1:F:489:THR:HG23	1.82	0.42
1:F:460:ASN:ND2	1:F:461:THR:H	2.17	0.42
1:F:472:LEU:C	1:F:472:LEU:CD1	2.92	0.42
1:F:481:ILE:O	1:F:481:ILE:HG22	2.19	0.42
1:G:223:GLY:O	1:N:259:ARG:NH2	2.47	0.42
1:G:353:ARG:HB2	1:G:369:GLN:HE22	1.83	0.42
1:G:403:LEU:HD12	1:G:403:LEU:H	1.84	0.42
1:G:430:THR:O	1:G:462:ASN:ND2	2.53	0.42
1:G:449:ARG:O	1:G:450:GLU:OE2	2.36	0.42
1:G:507:LYS:C	1:G:508:ILE:HD13	2.43	0.42
1:G:573:LEU:HD21	1:G:580:ILE:CD1	2.49	0.42
1:H:527:LEU:HD23	1:H:527:LEU:N	2.34	0.42
1:H:607:ALA:HB3	1:H:623:ILE:CG1	2.49	0.42
1:I:227:PHE:O	1:M:224:SER:CB	2.66	0.42
1:I:350:ILE:O	1:I:350:ILE:HG13	2.20	0.42
1:I:385:THR:HG23	1:I:386:PRO:HD2	2.01	0.42
1:I:607:ALA:HB3	1:I:623:ILE:CG1	2.49	0.42
1:J:222:SER:HG	1:P:229:GLY:C	2.23	0.42
1:J:374:PHE:CD2	1:J:380:THR:HB	2.54	0.42
1:J:430:THR:O	1:J:462:ASN:ND2	2.53	0.42
1:J:603:PRO:HA	1:J:625:SER:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:611:ILE:HD12	1:J:619:PHE:HE1	1.82	0.42
1:J:619:PHE:CD1	1:J:619:PHE:C	2.97	0.42
1:J:641:PHE:N	1:J:642:PRO:CD	2.82	0.42
1:K:367:VAL:HG23	1:K:564:PRO:HB2	2.00	0.42
1:K:393:VAL:HG11	1:K:406:GLY:O	2.20	0.42
1:L:262:GLU:HA	1:L:262:GLU:OE1	2.19	0.42
1:L:383:TRP:CZ3	1:L:503:ILE:HG21	2.54	0.42
1:L:435:TYR:O	1:L:436:ALA:C	2.63	0.42
1:L:449:ARG:O	1:L:450:GLU:OE2	2.36	0.42
1:L:661:ILE:CG1	1:L:662:ARG:N	2.77	0.42
1:M:262:GLU:HA	1:M:262:GLU:OE1	2.19	0.42
1:M:383:TRP:CZ3	1:M:503:ILE:HG21	2.54	0.42
1:M:460:ASN:ND2	1:M:461:THR:H	2.17	0.42
1:M:655:ILE:HD12	1:M:655:ILE:O	2.19	0.42
1:N:430:THR:O	1:N:462:ASN:ND2	2.53	0.42
1:N:512:GLN:HB3	1:N:514:ASN:OD1	2.20	0.42
1:O:280:SER:O	1:O:282:THR:HG23	2.19	0.42
1:O:385:THR:HG23	1:O:386:PRO:HD2	2.02	0.42
1:O:403:LEU:HD12	1:O:403:LEU:H	1.84	0.42
1:P:324:LEU:HA	1:P:324:LEU:HD23	1.73	0.42
1:P:386:PRO:HG3	1:P:595:SER:OG	2.19	0.42
1:P:393:VAL:HG11	1:P:406:GLY:O	2.19	0.42
1:P:603:PRO:HA	1:P:625:SER:HB3	2.01	0.42
1:P:636:ILE:HD13	1:P:636:ILE:O	2.18	0.42
1:Q:213:GLY:HA3	1:Q:320:PHE:HA	2.00	0.42
1:Q:262:GLU:HA	1:Q:262:GLU:OE1	2.19	0.42
1:Q:395:ILE:HD11	1:Q:524:ASP:HB2	2.01	0.42
1:Q:403:LEU:H	1:Q:403:LEU:HD12	1.84	0.42
1:Q:637:GLY:O	1:Q:639:LEU:HD23	2.20	0.42
1:R:309:ILE:C	1:R:309:ILE:HD12	2.44	0.42
1:R:374:PHE:CD2	1:R:380:THR:HB	2.54	0.42
1:R:424:THR:HG1	1:R:489:THR:HG23	1.81	0.42
1:R:512:GLN:HB3	1:R:514:ASN:OD1	2.20	0.42
1:R:582:VAL:HG12	1:R:583:PHE:N	2.33	0.42
1:S:301:ASN:HB3	1:S:302:ASP:H	1.51	0.42
1:S:451:TYR:O	1:S:453:SER:N	2.44	0.42
1:S:509:ALA:C	1:S:510:VAL:HG23	2.43	0.42
1:S:591:SER:O	1:S:592:ARG:C	2.61	0.42
1:T:262:GLU:HA	1:T:262:GLU:OE1	2.19	0.42
1:T:383:TRP:C	1:T:383:TRP:CD1	2.96	0.42
1:T:599:TYR:CD1	1:T:599:TYR:N	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:262:GLU:HA	1:A:262:GLU:OE1	2.19	0.42
1:A:350:ILE:O	1:A:350:ILE:HG13	2.20	0.42
1:A:353:ARG:HB2	1:A:369:GLN:HE22	1.83	0.42
1:A:401:GLU:OE1	1:A:402:LYS:CB	2.67	0.42
1:B:401:GLU:OE1	1:B:402:LYS:CB	2.66	0.42
1:B:527:LEU:HD23	1:B:527:LEU:N	2.34	0.42
1:B:601:LEU:HG	1:B:602:PRO:HD2	2.02	0.42
1:B:610:ARG:NH2	1:B:648:MET:HE2	2.32	0.42
1:C:297:ASN:ND2	1:C:298:PRO:N	2.60	0.42
1:C:471:ALA:HB2	1:C:527:LEU:CB	2.39	0.42
1:C:472:LEU:C	1:C:472:LEU:CD1	2.92	0.42
1:D:262:GLU:HA	1:D:262:GLU:OE1	2.19	0.42
1:D:361:PHE:HE1	1:D:619:PHE:HZ	1.63	0.42
1:D:383:TRP:CZ3	1:D:503:ILE:HG21	2.54	0.42
1:D:518:ARG:HD3	1:D:520:VAL:HG13	2.01	0.42
1:D:527:LEU:HD23	1:D:527:LEU:N	2.34	0.42
1:D:603:PRO:HA	1:D:625:SER:HB3	2.01	0.42
1:D:619:PHE:CD1	1:D:619:PHE:C	2.97	0.42
1:D:641:PHE:N	1:D:642:PRO:CD	2.82	0.42
1:E:175:SER:CB	1:E:311:THR:HA	2.47	0.42
1:E:350:ILE:CA	1:E:357:ASP:HA	2.43	0.42
1:E:383:TRP:CZ3	1:E:503:ILE:HG21	2.54	0.42
1:E:463:PHE:O	1:E:466:MET:HG2	2.20	0.42
1:F:280:SER:CB	1:F:334:HIS:CG	2.80	0.42
1:F:385:THR:HG23	1:F:386:PRO:HD2	2.02	0.42
1:F:425:ILE:HA	1:F:465:SER:OG	2.19	0.42
1:F:552:VAL:HG12	1:F:553:LEU:N	2.33	0.42
1:F:619:PHE:C	1:F:619:PHE:CD1	2.97	0.42
1:G:386:PRO:HG3	1:G:595:SER:OG	2.20	0.42
1:G:395:ILE:HD11	1:G:524:ASP:HB2	2.01	0.42
1:G:512:GLN:HB3	1:G:514:ASN:OD1	2.19	0.42
1:G:599:TYR:CD1	1:G:599:TYR:N	2.87	0.42
1:H:383:TRP:CZ3	1:H:503:ILE:HG21	2.54	0.42
1:H:460:ASN:ND2	1:H:461:THR:H	2.17	0.42
1:H:619:PHE:CD1	1:H:619:PHE:C	2.97	0.42
1:I:213:GLY:HA3	1:I:320:PHE:HA	2.00	0.42
1:I:374:PHE:CD2	1:I:380:THR:HB	2.54	0.42
1:I:652:LEU:HD12	1:I:652:LEU:H	1.84	0.42
1:J:393:VAL:HG11	1:J:406:GLY:O	2.19	0.42
1:J:401:GLU:OE1	1:J:402:LYS:CB	2.67	0.42
1:J:463:PHE:O	1:J:466:MET:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:470:GLY:N	1:J:530:LEU:HD13	2.31	0.42
1:J:478:ASP:HB3	1:J:479:LYS:H	1.61	0.42
1:K:383:TRP:CZ3	1:K:503:ILE:HG21	2.54	0.42
1:K:507:LYS:C	1:K:508:ILE:HD13	2.43	0.42
1:L:293:ASN:O	1:L:294:ASP:C	2.63	0.42
1:L:350:ILE:CA	1:L:357:ASP:HA	2.44	0.42
1:L:374:PHE:CD2	1:L:380:THR:HB	2.54	0.42
1:L:395:ILE:HD11	1:L:524:ASP:HB2	2.01	0.42
1:L:463:PHE:O	1:L:466:MET:HG2	2.20	0.42
1:L:550:ILE:O	1:L:551:SER:HB3	2.19	0.42
1:L:607:ALA:HB3	1:L:623:ILE:CG1	2.49	0.42
1:M:374:PHE:CD2	1:M:380:THR:HB	2.54	0.42
1:M:386:PRO:HG3	1:M:595:SER:OG	2.20	0.42
1:M:393:VAL:HG11	1:M:406:GLY:O	2.20	0.42
1:M:397:GLN:HG3	1:M:521:GLN:C	2.44	0.42
1:M:481:ILE:O	1:M:481:ILE:HG22	2.19	0.42
1:M:512:GLN:HB3	1:M:514:ASN:OD1	2.20	0.42
1:M:550:ILE:O	1:M:551:SER:HB3	2.20	0.42
1:M:607:ALA:HB3	1:M:623:ILE:CG1	2.49	0.42
1:N:261:VAL:CG1	1:R:260:GLN:CG	2.97	0.42
1:N:386:PRO:HG3	1:N:595:SER:OG	2.19	0.42
1:N:637:GLY:O	1:N:639:LEU:HD23	2.20	0.42
1:O:430:THR:O	1:O:462:ASN:ND2	2.53	0.42
1:O:652:LEU:HD12	1:O:652:LEU:H	1.83	0.42
1:P:218:ARG:CA	1:P:265:VAL:HG22	2.48	0.42
1:P:463:PHE:O	1:P:466:MET:HG2	2.20	0.42
1:P:527:LEU:HD23	1:P:527:LEU:N	2.34	0.42
1:P:582:VAL:HG12	1:P:583:PHE:N	2.33	0.42
1:Q:280:SER:O	1:Q:282:THR:HG23	2.19	0.42
1:Q:280:SER:HB2	1:Q:334:HIS:CE1	2.52	0.42
1:Q:374:PHE:CD2	1:Q:380:THR:HB	2.54	0.42
1:Q:430:THR:O	1:Q:462:ASN:ND2	2.53	0.42
1:Q:438:THR:O	1:Q:438:THR:HG23	2.18	0.42
1:R:344:LYS:O	1:R:345:SER:CB	2.64	0.42
1:R:430:THR:O	1:R:462:ASN:ND2	2.53	0.42
1:R:527:LEU:HD23	1:R:527:LEU:N	2.34	0.42
1:R:599:TYR:N	1:R:599:TYR:CD1	2.87	0.42
1:R:607:ALA:HB3	1:R:623:ILE:CG1	2.49	0.42
1:R:637:GLY:O	1:R:639:LEU:HD23	2.20	0.42
1:S:350:ILE:O	1:S:350:ILE:HG13	2.20	0.42
1:S:393:VAL:HG11	1:S:406:GLY:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:601:LEU:CG	1:S:602:PRO:HD2	2.49	0.42
1:S:607:ALA:HB3	1:S:623:ILE:CG1	2.49	0.42
1:T:255:LEU:HD12	1:T:255:LEU:N	2.34	0.42
1:T:309:ILE:C	1:T:309:ILE:HD12	2.44	0.42
1:T:342:ILE:HD13	1:T:609:TYR:CD2	2.51	0.42
1:T:563:HIS:HA	1:T:564:PRO:HD3	1.83	0.42
1:T:611:ILE:HD12	1:T:619:PHE:HE1	1.82	0.42
1:T:652:LEU:HD12	1:T:652:LEU:N	2.34	0.42
1:A:210:ALA:HB3	1:A:324:LEU:N	2.25	0.42
1:A:481:ILE:O	1:A:481:ILE:HG22	2.19	0.42
1:B:190:LYS:HE3	1:B:652:LEU:HB3	1.42	0.42
1:B:255:LEU:N	1:B:255:LEU:HD12	2.34	0.42
1:B:449:ARG:O	1:B:450:GLU:OE2	2.36	0.42
1:B:607:ALA:HB3	1:B:623:ILE:CG1	2.49	0.42
1:C:218:ARG:CA	1:C:265:VAL:HG22	2.48	0.42
1:C:361:PHE:HE1	1:C:619:PHE:HZ	1.63	0.42
1:C:383:TRP:CZ3	1:C:503:ILE:HG21	2.54	0.42
1:C:386:PRO:HG3	1:C:595:SER:OG	2.19	0.42
1:C:402:LYS:HD3	1:C:511:PHE:CE2	2.34	0.42
1:C:435:TYR:O	1:C:436:ALA:C	2.62	0.42
1:C:460:ASN:ND2	1:C:461:THR:H	2.17	0.42
1:C:478:ASP:HB3	1:C:479:LYS:H	1.61	0.42
1:D:259:ARG:CZ	1:S:259:ARG:O	2.67	0.42
1:D:607:ALA:HB3	1:D:623:ILE:CG1	2.49	0.42
1:E:403:LEU:H	1:E:403:LEU:HD12	1.84	0.42
1:E:481:ILE:O	1:E:481:ILE:HG22	2.20	0.42
1:E:556:THR:HG21	1:E:628:PHE:CG	2.54	0.42
1:F:288:VAL:HG12	1:F:289:ILE:H	1.80	0.42
1:F:397:GLN:HG3	1:F:521:GLN:C	2.44	0.42
1:F:512:GLN:HB3	1:F:514:ASN:OD1	2.20	0.42
1:G:374:PHE:CD2	1:G:380:THR:HB	2.54	0.42
1:G:393:VAL:HG11	1:G:406:GLY:O	2.19	0.42
1:G:550:ILE:O	1:G:551:SER:HB3	2.20	0.42
1:H:213:GLY:HA3	1:H:320:PHE:HA	2.00	0.42
1:I:309:ILE:C	1:I:309:ILE:HD12	2.44	0.42
1:I:398:LYS:N	1:I:403:LEU:CD2	2.76	0.42
1:I:603:PRO:HA	1:I:625:SER:HB3	2.01	0.42
1:I:610:ARG:NH2	1:I:648:MET:HE2	2.32	0.42
1:J:213:GLY:HA3	1:J:320:PHE:HA	2.00	0.42
1:J:262:GLU:OE1	1:J:262:GLU:HA	2.19	0.42
1:J:435:TYR:O	1:J:436:ALA:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:512:GLN:HB3	1:J:514:ASN:OD1	2.20	0.42
1:J:582:VAL:HG12	1:J:583:PHE:N	2.33	0.42
1:J:584:ASN:HD22	1:J:584:ASN:HA	1.69	0.42
1:K:346:SER:CB	1:K:643:LEU:HB2	2.45	0.42
1:L:393:VAL:HG11	1:L:406:GLY:O	2.20	0.42
1:L:397:GLN:HG3	1:L:521:GLN:C	2.44	0.42
1:L:416:ILE:H	1:L:416:ILE:CD1	2.10	0.42
1:L:430:THR:O	1:L:462:ASN:ND2	2.53	0.42
1:L:655:ILE:HD12	1:L:655:ILE:O	2.19	0.42
1:M:230:LYS:NZ	1:R:220:SER:OG	2.39	0.42
1:M:301:ASN:HB3	1:M:302:ASP:H	1.51	0.42
1:M:309:ILE:C	1:M:309:ILE:HD12	2.44	0.42
1:M:350:ILE:O	1:M:350:ILE:HG13	2.20	0.42
1:M:508:ILE:N	1:M:508:ILE:CD1	2.78	0.42
1:M:601:LEU:CG	1:M:602:PRO:HD2	2.49	0.42
1:M:603:PRO:HA	1:M:625:SER:HB3	2.01	0.42
1:N:602:PRO:CG	1:N:605:SER:CB	2.73	0.42
1:O:262:GLU:HA	1:O:262:GLU:OE1	2.19	0.42
1:O:288:VAL:HG12	1:O:289:ILE:H	1.80	0.42
1:O:507:LYS:H	1:O:508:ILE:CD1	2.30	0.42
1:O:556:THR:HG21	1:O:628:PHE:CG	2.54	0.42
1:P:280:SER:HB2	1:P:334:HIS:CE1	2.52	0.42
1:P:435:TYR:O	1:P:436:ALA:C	2.62	0.42
1:P:481:ILE:O	1:P:481:ILE:HG22	2.19	0.42
1:P:615:ASN:HB2	1:P:616:GLY:H	1.72	0.42
1:Q:350:ILE:O	1:Q:350:ILE:HG13	2.20	0.42
1:Q:550:ILE:O	1:Q:551:SER:HB3	2.20	0.42
1:R:397:GLN:HG3	1:R:521:GLN:C	2.44	0.42
1:R:451:TYR:O	1:R:453:SER:N	2.44	0.42
1:S:204:LEU:HD22	1:S:322:PHE:CZ	2.53	0.42
1:S:280:SER:HB2	1:S:334:HIS:CE1	2.52	0.42
1:S:309:ILE:HD12	1:S:309:ILE:C	2.44	0.42
1:S:550:ILE:O	1:S:551:SER:HB3	2.19	0.42
1:S:582:VAL:HG12	1:S:583:PHE:N	2.33	0.42
1:T:509:ALA:C	1:T:510:VAL:HG23	2.43	0.42
1:A:218:ARG:CA	1:A:265:VAL:HG22	2.48	0.42
1:A:327:PRO:HG3	1:L:236:VAL:HA	2.02	0.42
1:A:346:SER:O	1:A:347:SER:C	2.61	0.42
1:A:575:TYR:C	1:E:480:LYS:HZ3	2.27	0.42
1:B:430:THR:O	1:B:462:ASN:ND2	2.53	0.42
1:B:480:LYS:HZ3	1:D:575:TYR:C	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:512:GLN:HB3	1:B:514:ASN:OD1	2.20	0.42
1:B:601:LEU:CG	1:B:602:PRO:HD2	2.49	0.42
1:C:179:SER:N	1:C:182:GLU:OE2	2.43	0.42
1:C:481:ILE:O	1:C:481:ILE:HG22	2.19	0.42
1:C:512:GLN:HB3	1:C:514:ASN:OD1	2.20	0.42
1:C:603:PRO:HA	1:C:625:SER:HB3	2.01	0.42
1:C:624:ASP:C	1:C:626:ASP:N	2.78	0.42
1:D:297:ASN:ND2	1:D:298:PRO:N	2.60	0.42
1:D:435:TYR:O	1:D:436:ALA:C	2.62	0.42
1:D:550:ILE:O	1:D:551:SER:HB3	2.20	0.42
1:D:605:SER:HB2	1:D:650:ILE:HG21	1.99	0.42
1:E:190:LYS:HE3	1:E:652:LEU:HB3	1.42	0.42
1:E:328:PRO:CD	1:J:252:PRO:HD3	2.47	0.42
1:E:368:PHE:CD1	1:E:547:VAL:HG21	2.55	0.42
1:E:397:GLN:HG3	1:E:521:GLN:C	2.44	0.42
1:E:601:LEU:CG	1:E:602:PRO:HD2	2.49	0.42
1:F:261:VAL:CG1	1:K:260:GLN:HG3	2.47	0.42
1:F:363:ILE:H	1:F:363:ILE:HG13	1.75	0.42
1:F:383:TRP:CZ3	1:F:503:ILE:HG21	2.54	0.42
1:F:386:PRO:HG3	1:F:595:SER:OG	2.19	0.42
1:F:401:GLU:OE1	1:F:402:LYS:CB	2.67	0.42
1:F:601:LEU:CG	1:F:602:PRO:HD2	2.49	0.42
1:F:636:ILE:HD13	1:F:636:ILE:O	2.19	0.42
1:G:262:GLU:HA	1:G:262:GLU:OE1	2.19	0.42
1:G:425:ILE:HA	1:G:465:SER:OG	2.19	0.42
1:H:260:GLN:CG	1:T:261:VAL:CG1	2.97	0.42
1:H:393:VAL:HG11	1:H:406:GLY:O	2.19	0.42
1:H:430:THR:O	1:H:462:ASN:ND2	2.53	0.42
1:H:463:PHE:O	1:H:466:MET:HG2	2.20	0.42
1:H:637:GLY:O	1:H:639:LEU:HD23	2.20	0.42
1:I:353:ARG:HB2	1:I:369:GLN:HE22	1.83	0.42
1:I:550:ILE:O	1:I:551:SER:HB3	2.20	0.42
1:I:619:PHE:C	1:I:619:PHE:CD1	2.97	0.42
1:J:175:SER:CB	1:J:311:THR:HA	2.47	0.42
1:J:386:PRO:HG3	1:J:595:SER:OG	2.19	0.42
1:K:293:ASN:O	1:K:294:ASP:C	2.63	0.42
1:K:512:GLN:HB3	1:K:514:ASN:OD1	2.20	0.42
1:K:601:LEU:HG	1:K:602:PRO:HD2	2.02	0.42
1:K:601:LEU:CG	1:K:602:PRO:HD2	2.49	0.42
1:L:259:ARG:O	1:T:259:ARG:CZ	2.67	0.42
1:L:280:SER:O	1:L:282:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:448:PRO:C	1:L:449:ARG:CG	2.91	0.42
1:L:512:GLN:HB3	1:L:514:ASN:OD1	2.20	0.42
1:L:527:LEU:HD23	1:L:527:LEU:N	2.34	0.42
1:M:346:SER:O	1:M:347:SER:C	2.61	0.42
1:M:356:THR:HG1	1:M:569:ASN:CG	2.14	0.42
1:M:385:THR:HG23	1:M:386:PRO:HD2	2.02	0.42
1:M:405:ILE:HA	1:M:508:ILE:HG12	2.02	0.42
1:M:463:PHE:O	1:M:466:MET:HG2	2.20	0.42
1:N:425:ILE:HA	1:N:465:SER:OG	2.19	0.42
1:N:601:LEU:CG	1:N:602:PRO:HD2	2.49	0.42
1:O:300:ALA:O	1:O:301:ASN:CB	2.65	0.42
1:O:374:PHE:CD2	1:O:380:THR:HB	2.54	0.42
1:O:425:ILE:HA	1:O:465:SER:OG	2.19	0.42
1:O:463:PHE:O	1:O:466:MET:HG2	2.20	0.42
1:O:481:ILE:O	1:O:481:ILE:HG22	2.19	0.42
1:O:550:ILE:O	1:O:551:SER:HB3	2.20	0.42
1:O:591:SER:O	1:O:592:ARG:C	2.61	0.42
1:P:186:LYS:N	1:P:290:MET:HE2	2.35	0.42
1:P:255:LEU:HD12	1:P:255:LEU:N	2.34	0.42
1:P:262:GLU:HA	1:P:262:GLU:OE1	2.19	0.42
1:P:280:SER:O	1:P:282:THR:HG23	2.19	0.42
1:P:507:LYS:H	1:P:508:ILE:CD1	2.30	0.42
1:P:601:LEU:CG	1:P:602:PRO:HD2	2.49	0.42
1:P:655:ILE:HD12	1:P:655:ILE:O	2.19	0.42
1:Q:218:ARG:CA	1:Q:265:VAL:HG22	2.48	0.42
1:Q:368:PHE:CD1	1:Q:547:VAL:HG21	2.55	0.42
1:Q:435:TYR:O	1:Q:436:ALA:C	2.63	0.42
1:Q:463:PHE:O	1:Q:466:MET:HG2	2.19	0.42
1:R:280:SER:HB2	1:R:334:HIS:CE1	2.52	0.42
1:R:395:ILE:HD11	1:R:524:ASP:HB2	2.01	0.42
1:R:403:LEU:H	1:R:403:LEU:HD12	1.84	0.42
1:R:463:PHE:O	1:R:466:MET:HG2	2.20	0.42
1:R:556:THR:HG21	1:R:628:PHE:CG	2.54	0.42
1:R:652:LEU:HD12	1:R:652:LEU:N	2.34	0.42
1:S:297:ASN:ND2	1:S:298:PRO:HD2	2.31	0.42
1:S:405:ILE:HA	1:S:508:ILE:HG12	2.02	0.42
1:S:448:PRO:C	1:S:449:ARG:CG	2.91	0.42
1:T:175:SER:CB	1:T:311:THR:HA	2.47	0.42
1:T:601:LEU:HG	1:T:602:PRO:HD2	2.02	0.42
1:A:280:SER:CB	1:A:334:HIS:CG	2.80	0.42
1:A:386:PRO:HG3	1:A:595:SER:OG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:450:GLU:C	1:A:451:TYR:CD2	2.98	0.42
1:B:280:SER:O	1:B:282:THR:HG23	2.19	0.42
1:B:550:ILE:O	1:B:551:SER:HB3	2.20	0.42
1:C:309:ILE:C	1:C:309:ILE:HD12	2.44	0.42
1:C:397:GLN:HG3	1:C:521:GLN:C	2.44	0.42
1:C:601:LEU:HG	1:C:602:PRO:HD2	2.02	0.42
1:C:652:LEU:HD12	1:C:652:LEU:N	2.34	0.42
1:D:260:GLN:CG	1:S:261:VAL:CG1	2.97	0.42
1:D:397:GLN:HG3	1:D:521:GLN:C	2.44	0.42
1:D:599:TYR:N	1:D:599:TYR:CD1	2.87	0.42
1:E:255:LEU:HD12	1:E:255:LEU:N	2.34	0.42
1:E:374:PHE:CD2	1:E:380:THR:HB	2.54	0.42
1:E:411:PHE:CD1	1:E:418:ASP:N	2.87	0.42
1:E:450:GLU:C	1:E:451:TYR:CD2	2.98	0.42
1:F:259:ARG:O	1:K:259:ARG:CZ	2.68	0.42
1:F:324:LEU:CD2	1:R:271:LEU:CG	2.97	0.42
1:F:395:ILE:HD11	1:F:524:ASP:HB2	2.01	0.42
1:F:403:LEU:H	1:F:403:LEU:HD12	1.84	0.42
1:F:439:THR:HG1	1:F:457:ILE:CG1	2.28	0.42
1:F:463:PHE:O	1:F:466:MET:HG2	2.20	0.42
1:F:603:PRO:HA	1:F:625:SER:HB3	2.01	0.42
1:F:637:GLY:O	1:F:639:LEU:HD23	2.20	0.42
1:F:641:PHE:N	1:F:642:PRO:CD	2.82	0.42
1:G:404:GLY:O	1:G:405:ILE:C	2.63	0.42
1:G:463:PHE:O	1:G:466:MET:HG2	2.20	0.42
1:G:624:ASP:C	1:G:626:ASP:N	2.78	0.42
1:H:401:GLU:OE1	1:H:402:LYS:CB	2.67	0.42
1:H:599:TYR:CD1	1:H:599:TYR:N	2.87	0.42
1:I:300:ALA:O	1:I:301:ASN:CB	2.65	0.42
1:I:395:ILE:HD11	1:I:524:ASP:HB2	2.01	0.42
1:J:301:ASN:HB3	1:J:302:ASP:H	1.51	0.42
1:J:385:THR:HG23	1:J:386:PRO:HD2	2.01	0.42
1:J:550:ILE:O	1:J:551:SER:HB3	2.20	0.42
1:J:636:ILE:HD13	1:J:636:ILE:O	2.19	0.42
1:K:179:SER:N	1:K:182:GLU:OE2	2.43	0.42
1:K:342:ILE:HD13	1:K:609:TYR:CD2	2.51	0.42
1:K:368:PHE:CD1	1:K:547:VAL:HG21	2.55	0.42
1:K:603:PRO:HA	1:K:625:SER:HB3	2.01	0.42
1:L:385:THR:HG23	1:L:386:PRO:HD2	2.02	0.42
1:L:404:GLY:O	1:L:405:ILE:C	2.63	0.42
1:L:460:ASN:ND2	1:L:461:THR:H	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:584:ASN:HD22	1:L:584:ASN:HA	1.69	0.42
1:M:411:PHE:CD1	1:M:418:ASP:N	2.87	0.42
1:M:424:THR:CG2	1:M:425:ILE:HD13	2.45	0.42
1:M:506:THR:O	1:M:507:LYS:HG3	2.20	0.42
1:N:367:VAL:HG23	1:N:564:PRO:HB2	2.00	0.42
1:N:397:GLN:HG3	1:N:521:GLN:C	2.44	0.42
1:N:601:LEU:HG	1:N:602:PRO:HD2	2.02	0.42
1:N:641:PHE:N	1:N:642:PRO:CD	2.82	0.42
1:O:512:GLN:HB3	1:O:514:ASN:OD1	2.20	0.42
1:O:601:LEU:CG	1:O:602:PRO:HD2	2.50	0.42
1:P:385:THR:HG23	1:P:386:PRO:HD2	2.02	0.42
1:P:607:ALA:HB3	1:P:623:ILE:CG1	2.49	0.42
1:Q:193:LEU:HD12	1:Q:193:LEU:HA	1.79	0.42
1:Q:470:GLY:N	1:Q:530:LEU:HD13	2.31	0.42
1:Q:512:GLN:HB3	1:Q:514:ASN:OD1	2.20	0.42
1:Q:573:LEU:HD21	1:Q:580:ILE:CD1	2.49	0.42
1:Q:599:TYR:CD1	1:Q:599:TYR:N	2.87	0.42
1:R:383:TRP:CZ3	1:R:503:ILE:HG21	2.54	0.42
1:R:405:ILE:HA	1:R:508:ILE:HG12	2.02	0.42
1:S:439:THR:CG2	1:S:457:ILE:CD1	2.87	0.42
1:S:599:TYR:CD1	1:S:599:TYR:N	2.87	0.42
1:S:636:ILE:HD13	1:S:636:ILE:O	2.19	0.42
1:T:386:PRO:HG3	1:T:595:SER:OG	2.19	0.42
1:T:393:VAL:HG11	1:T:406:GLY:O	2.20	0.42
1:T:607:ALA:HB3	1:T:623:ILE:CG1	2.49	0.42
1:A:606:PHE:HB3	1:A:607:ALA:H	1.72	0.42
1:B:368:PHE:CD1	1:B:547:VAL:HG21	2.55	0.42
1:B:404:GLY:O	1:B:405:ILE:C	2.63	0.42
1:B:414:PRO:O	1:B:416:ILE:HD12	2.20	0.42
1:B:636:ILE:HD13	1:B:636:ILE:O	2.19	0.42
1:C:186:LYS:N	1:C:290:MET:HE2	2.35	0.42
1:C:404:GLY:O	1:C:405:ILE:C	2.63	0.42
1:C:411:PHE:CD1	1:C:418:ASP:N	2.87	0.42
1:C:506:THR:O	1:C:507:LYS:HG3	2.20	0.42
1:C:550:ILE:O	1:C:551:SER:HB3	2.20	0.42
1:C:591:SER:O	1:C:592:ARG:C	2.61	0.42
1:C:655:ILE:HD12	1:C:655:ILE:O	2.18	0.42
1:D:395:ILE:HD11	1:D:524:ASP:HB2	2.01	0.42
1:E:385:THR:HG23	1:E:386:PRO:HD2	2.02	0.42
1:E:393:VAL:HG11	1:E:406:GLY:O	2.19	0.42
1:E:527:LEU:HD23	1:E:527:LEU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:404:GLY:O	1:F:405:ILE:C	2.63	0.42
1:F:425:ILE:HG12	1:F:425:ILE:O	2.20	0.42
1:G:179:SER:N	1:G:182:GLU:OE2	2.43	0.42
1:G:368:PHE:CD1	1:G:547:VAL:HG21	2.55	0.42
1:G:490:ALA:HB1	1:G:499:PRO:HA	2.02	0.42
1:G:636:ILE:HD13	1:G:636:ILE:O	2.18	0.42
1:H:259:ARG:CZ	1:T:259:ARG:O	2.68	0.42
1:H:405:ILE:HA	1:H:508:ILE:HG12	2.02	0.42
1:H:435:TYR:O	1:H:436:ALA:C	2.62	0.42
1:H:438:THR:HG23	1:H:438:THR:O	2.18	0.42
1:H:450:GLU:C	1:H:451:TYR:CD2	2.98	0.42
1:H:490:ALA:HB1	1:H:499:PRO:HA	2.02	0.42
1:H:584:ASN:HD22	1:H:584:ASN:HA	1.69	0.42
1:H:636:ILE:O	1:H:636:ILE:HD13	2.19	0.42
1:I:186:LYS:N	1:I:290:MET:HE2	2.35	0.42
1:I:259:ARG:CZ	1:M:259:ARG:O	2.67	0.42
1:I:397:GLN:HG3	1:I:521:GLN:C	2.44	0.42
1:I:450:GLU:C	1:I:451:TYR:CD2	2.98	0.42
1:I:637:GLY:O	1:I:639:LEU:HD23	2.20	0.42
1:J:249:LEU:C	1:J:251:TYR:N	2.74	0.42
1:J:350:ILE:O	1:J:350:ILE:HG13	2.20	0.42
1:J:411:PHE:CD1	1:J:418:ASP:N	2.87	0.42
1:K:186:LYS:N	1:K:290:MET:HE2	2.35	0.42
1:K:218:ARG:CA	1:K:265:VAL:HG22	2.48	0.42
1:K:402:LYS:HD3	1:K:511:PHE:CE2	2.34	0.42
1:K:450:GLU:C	1:K:451:TYR:CD2	2.98	0.42
1:L:212:SER:O	1:L:320:PHE:HA	2.20	0.42
1:L:403:LEU:H	1:L:403:LEU:HD12	1.84	0.42
1:L:601:LEU:CG	1:L:602:PRO:HD2	2.49	0.42
1:M:259:ARG:CZ	1:R:259:ARG:O	2.68	0.42
1:M:260:GLN:HG3	1:R:261:VAL:CG1	2.47	0.42
1:M:368:PHE:CD1	1:M:547:VAL:HG21	2.55	0.42
1:M:414:PRO:O	1:M:416:ILE:HD12	2.20	0.42
1:N:186:LYS:N	1:N:290:MET:HE2	2.35	0.42
1:N:383:TRP:CZ3	1:N:503:ILE:HG21	2.54	0.42
1:N:607:ALA:HB3	1:N:623:ILE:CG1	2.49	0.42
1:O:297:ASN:ND2	1:O:298:PRO:N	2.60	0.42
1:O:393:VAL:HG11	1:O:406:GLY:O	2.19	0.42
1:O:637:GLY:O	1:O:639:LEU:HD23	2.20	0.42
1:P:430:THR:O	1:P:462:ASN:ND2	2.52	0.42
1:P:619:PHE:CD1	1:P:619:PHE:C	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:637:GLY:O	1:P:639:LEU:HD23	2.20	0.42
1:Q:393:VAL:HG11	1:Q:406:GLY:O	2.20	0.42
1:Q:450:GLU:C	1:Q:451:TYR:CD2	2.98	0.42
1:Q:508:ILE:N	1:Q:508:ILE:CD1	2.78	0.42
1:R:186:LYS:N	1:R:290:MET:HE2	2.35	0.42
1:R:393:VAL:HG11	1:R:406:GLY:O	2.19	0.42
1:S:385:THR:C	1:S:387:ARG:H	2.25	0.42
1:S:450:GLU:C	1:S:451:TYR:CD2	2.98	0.42
1:S:527:LEU:HD23	1:S:527:LEU:N	2.34	0.42
1:S:556:THR:HG21	1:S:628:PHE:CG	2.54	0.42
1:T:301:ASN:HB3	1:T:302:ASP:H	1.51	0.42
1:T:573:LEU:HD21	1:T:580:ILE:CD1	2.49	0.42
1:A:185:GLY:HA2	1:A:290:MET:CG	2.50	0.42
1:A:508:ILE:N	1:A:508:ILE:CD1	2.78	0.42
1:A:573:LEU:HD21	1:A:580:ILE:CD1	2.49	0.42
1:A:599:TYR:CD1	1:A:599:TYR:N	2.87	0.42
1:B:186:LYS:N	1:B:290:MET:HE2	2.35	0.42
1:B:599:TYR:CD1	1:B:599:TYR:N	2.87	0.42
1:C:346:SER:O	1:C:347:SER:C	2.61	0.42
1:C:430:THR:O	1:C:462:ASN:ND2	2.53	0.42
1:C:450:GLU:C	1:C:451:TYR:CD2	2.98	0.42
1:C:490:ALA:HB1	1:C:499:PRO:HA	2.02	0.42
1:C:637:GLY:O	1:C:639:LEU:HD23	2.20	0.42
1:D:368:PHE:CD1	1:D:547:VAL:HG21	2.55	0.42
1:D:430:THR:O	1:D:462:ASN:ND2	2.53	0.42
1:E:386:PRO:HG3	1:E:595:SER:OG	2.19	0.42
1:E:412:ILE:C	1:E:413:VAL:HG22	2.45	0.42
1:E:414:PRO:O	1:E:416:ILE:HD12	2.20	0.42
1:E:490:ALA:HB1	1:E:499:PRO:HA	2.02	0.42
1:E:652:LEU:HD12	1:E:652:LEU:H	1.83	0.42
1:F:280:SER:O	1:F:282:THR:HG23	2.19	0.42
1:F:328:PRO:C	1:R:251:TYR:HD1	1.61	0.42
1:F:342:ILE:HD13	1:F:609:TYR:CD2	2.51	0.42
1:F:599:TYR:CD1	1:F:599:TYR:N	2.87	0.42
1:G:185:GLY:HA2	1:G:290:MET:CG	2.50	0.42
1:G:398:LYS:N	1:G:403:LEU:CD2	2.76	0.42
1:G:450:GLU:C	1:G:451:TYR:CD2	2.98	0.42
1:G:470:GLY:N	1:G:530:LEU:HD13	2.31	0.42
1:G:610:ARG:NH2	1:G:648:MET:HE2	2.32	0.42
1:G:637:GLY:O	1:G:639:LEU:HD23	2.20	0.42
1:H:261:VAL:CG1	1:O:260:GLN:HG3	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:374:PHE:CD2	1:H:380:THR:HB	2.54	0.42
1:H:508:ILE:N	1:H:508:ILE:CD1	2.78	0.42
1:H:550:ILE:O	1:H:551:SER:HB3	2.19	0.42
1:I:262:GLU:HA	1:I:262:GLU:OE1	2.19	0.42
1:I:342:ILE:HD13	1:I:609:TYR:CD2	2.51	0.42
1:I:386:PRO:HG3	1:I:595:SER:OG	2.19	0.42
1:J:368:PHE:CD1	1:J:547:VAL:HG21	2.55	0.42
1:J:404:GLY:O	1:J:405:ILE:C	2.63	0.42
1:J:405:ILE:HA	1:J:508:ILE:HG12	2.02	0.42
1:J:450:GLU:C	1:J:451:TYR:CD2	2.98	0.42
1:J:481:ILE:O	1:J:481:ILE:HG22	2.19	0.42
1:K:430:THR:O	1:K:462:ASN:ND2	2.53	0.42
1:K:435:TYR:O	1:K:436:ALA:C	2.62	0.42
1:K:506:THR:O	1:K:507:LYS:HG3	2.20	0.42
1:K:512:GLN:CD	1:K:513:ASP:H	2.28	0.42
1:K:611:ILE:HD12	1:K:619:PHE:HE1	1.82	0.42
1:K:637:GLY:O	1:K:639:LEU:HD23	2.20	0.42
1:K:652:LEU:HD12	1:K:652:LEU:N	2.34	0.42
1:L:288:VAL:CG1	1:L:289:ILE:N	2.83	0.42
1:L:450:GLU:C	1:L:451:TYR:CD2	2.98	0.42
1:M:175:SER:CB	1:M:311:THR:HA	2.47	0.42
1:M:234:ILE:HD11	1:M:288:VAL:HB	2.02	0.42
1:M:404:GLY:O	1:M:405:ILE:C	2.63	0.42
1:M:435:TYR:O	1:M:436:ALA:C	2.62	0.42
1:M:450:GLU:C	1:M:451:TYR:CD2	2.98	0.42
1:M:591:SER:O	1:M:592:ARG:C	2.61	0.42
1:M:601:LEU:HG	1:M:602:PRO:HD2	2.02	0.42
1:M:637:GLY:O	1:M:639:LEU:HD23	2.20	0.42
1:N:346:SER:O	1:N:347:SER:C	2.61	0.42
1:N:435:TYR:O	1:N:436:ALA:C	2.63	0.42
1:N:450:GLU:C	1:N:451:TYR:CD2	2.98	0.42
1:N:472:LEU:C	1:N:472:LEU:CD1	2.92	0.42
1:N:527:LEU:HD23	1:N:527:LEU:N	2.34	0.42
1:O:193:LEU:HD12	1:O:193:LEU:HA	1.79	0.42
1:O:414:PRO:O	1:O:416:ILE:HD12	2.20	0.42
1:O:451:TYR:O	1:O:453:SER:N	2.44	0.42
1:O:506:THR:O	1:O:507:LYS:HG3	2.20	0.42
1:O:641:PHE:N	1:O:642:PRO:CD	2.82	0.42
1:P:300:ALA:O	1:P:301:ASN:CB	2.65	0.42
1:P:451:TYR:O	1:P:453:SER:N	2.44	0.42
1:Q:249:LEU:C	1:Q:251:TYR:N	2.74	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:652:LEU:HD12	1:Q:652:LEU:N	2.34	0.42
1:R:262:GLU:OE1	1:R:262:GLU:HA	2.19	0.42
1:R:450:GLU:C	1:R:451:TYR:CD2	2.98	0.42
1:R:512:GLN:CD	1:R:513:ASP:H	2.28	0.42
1:S:383:TRP:CZ3	1:S:503:ILE:HG21	2.54	0.42
1:S:490:ALA:HB1	1:S:499:PRO:HA	2.02	0.42
1:S:512:GLN:CD	1:S:513:ASP:H	2.28	0.42
1:S:611:ILE:HD12	1:S:619:PHE:HE1	1.82	0.42
1:T:404:GLY:O	1:T:405:ILE:C	2.63	0.42
1:T:425:ILE:HA	1:T:465:SER:OG	2.19	0.42
1:T:490:ALA:HB1	1:T:499:PRO:HA	2.02	0.42
1:T:512:GLN:HB3	1:T:514:ASN:OD1	2.20	0.42
1:A:324:LEU:CD2	1:L:271:LEU:CG	2.97	0.42
1:A:368:PHE:CD1	1:A:547:VAL:HG21	2.55	0.42
1:A:404:GLY:O	1:A:405:ILE:C	2.63	0.42
1:A:414:PRO:O	1:A:416:ILE:HD12	2.20	0.42
1:B:229:GLY:C	1:Q:222:SER:HG	2.25	0.42
1:B:386:PRO:HG3	1:B:595:SER:OG	2.19	0.42
1:B:470:GLY:N	1:B:530:LEU:HD13	2.31	0.42
1:C:368:PHE:CD1	1:C:547:VAL:HG21	2.55	0.42
1:C:395:ILE:HD11	1:C:524:ASP:HB2	2.01	0.42
1:C:412:ILE:C	1:C:413:VAL:HG22	2.45	0.42
1:C:414:PRO:O	1:C:416:ILE:HD12	2.20	0.42
1:C:601:LEU:CG	1:C:602:PRO:HD2	2.49	0.42
1:C:607:ALA:HB3	1:C:623:ILE:CG1	2.49	0.42
1:D:212:SER:O	1:D:320:PHE:HA	2.20	0.42
1:D:374:PHE:CD2	1:D:380:THR:HB	2.54	0.42
1:E:260:GLN:HG3	1:O:261:VAL:CG1	2.47	0.42
1:F:262:GLU:OE1	1:F:262:GLU:HA	2.19	0.42
1:F:275:LEU:HD13	1:R:275:LEU:HA	1.79	0.42
1:F:611:ILE:HD12	1:F:619:PHE:HE1	1.82	0.42
1:G:383:TRP:CZ3	1:G:503:ILE:HG21	2.54	0.42
1:H:350:ILE:CA	1:H:357:ASP:HA	2.44	0.42
1:H:368:PHE:CD1	1:H:547:VAL:HG21	2.55	0.42
1:H:651:GLN:O	1:H:652:LEU:C	2.63	0.42
1:I:185:GLY:HA2	1:I:290:MET:CG	2.50	0.42
1:I:414:PRO:O	1:I:416:ILE:HD12	2.20	0.42
1:I:481:ILE:O	1:I:481:ILE:HG22	2.19	0.42
1:I:507:LYS:H	1:I:508:ILE:CD1	2.30	0.42
1:I:651:GLN:O	1:I:652:LEU:C	2.63	0.42
1:J:288:VAL:CG1	1:J:289:ILE:N	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:506:THR:O	1:J:507:LYS:HG3	2.20	0.42
1:J:607:ALA:HB3	1:J:623:ILE:CG1	2.49	0.42
1:K:280:SER:O	1:K:282:THR:HG23	2.19	0.42
1:K:297:ASN:ND2	1:K:298:PRO:N	2.60	0.42
1:K:353:ARG:HB2	1:K:369:GLN:HE22	1.83	0.42
1:K:460:ASN:ND2	1:K:461:THR:H	2.17	0.42
1:K:518:ARG:HD3	1:K:520:VAL:HG13	2.01	0.42
1:K:527:LEU:HD23	1:K:527:LEU:N	2.34	0.42
1:L:346:SER:CB	1:L:643:LEU:HB2	2.45	0.42
1:L:350:ILE:O	1:L:350:ILE:HG13	2.20	0.42
1:L:637:GLY:O	1:L:639:LEU:HD23	2.20	0.42
1:M:342:ILE:H	1:M:342:ILE:HD12	1.68	0.42
1:M:430:THR:O	1:M:462:ASN:ND2	2.52	0.42
1:M:636:ILE:HD13	1:M:636:ILE:O	2.19	0.42
1:N:179:SER:N	1:N:182:GLU:OE2	2.43	0.42
1:N:190:LYS:HE3	1:N:652:LEU:HB3	1.42	0.42
1:N:393:VAL:HG11	1:N:406:GLY:O	2.20	0.42
1:N:425:ILE:HG12	1:N:425:ILE:O	2.20	0.42
1:N:504:ASN:CB	1:N:505:PRO:CD	2.83	0.42
1:O:186:LYS:N	1:O:290:MET:HE2	2.35	0.42
1:O:450:GLU:C	1:O:451:TYR:CD2	2.98	0.42
1:O:603:PRO:HA	1:O:625:SER:HB3	2.01	0.42
1:P:550:ILE:O	1:P:551:SER:HB3	2.20	0.42
1:S:213:GLY:HA3	1:S:320:PHE:HA	2.00	0.42
1:S:425:ILE:HG12	1:S:425:ILE:O	2.20	0.42
1:T:368:PHE:CD1	1:T:547:VAL:HG21	2.55	0.42
1:T:412:ILE:C	1:T:413:VAL:HG22	2.45	0.42
1:T:518:ARG:HD3	1:T:520:VAL:HG13	2.00	0.42
1:T:601:LEU:CG	1:T:602:PRO:HD2	2.49	0.42
1:A:425:ILE:HA	1:A:465:SER:OG	2.19	0.41
1:A:430:THR:O	1:A:462:ASN:ND2	2.53	0.41
1:A:439:THR:CG2	1:A:457:ILE:CD1	2.87	0.41
1:A:603:PRO:HA	1:A:625:SER:HB3	2.01	0.41
1:B:179:SER:N	1:B:182:GLU:OE2	2.43	0.41
1:B:411:PHE:CD1	1:B:418:ASP:N	2.87	0.41
1:B:438:THR:O	1:B:438:THR:HG23	2.18	0.41
1:B:450:GLU:C	1:B:451:TYR:CD2	2.98	0.41
1:B:506:THR:O	1:B:507:LYS:HG3	2.20	0.41
1:B:637:GLY:O	1:B:639:LEU:HD23	2.20	0.41
1:C:641:PHE:N	1:C:642:PRO:CD	2.82	0.41
1:D:229:GLY:C	1:S:222:SER:OG	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:411:PHE:CD1	1:D:418:ASP:N	2.87	0.41
1:D:583:PHE:O	1:D:584:ASN:CG	2.64	0.41
1:D:615:ASN:HB2	1:D:616:GLY:H	1.72	0.41
1:D:637:GLY:O	1:D:639:LEU:HD23	2.20	0.41
1:E:212:SER:O	1:E:320:PHE:HA	2.20	0.41
1:E:259:ARG:O	1:L:259:ARG:CZ	2.68	0.41
1:F:259:ARG:O	1:F:260:GLN:C	2.63	0.41
1:F:350:ILE:O	1:F:350:ILE:HG13	2.19	0.41
1:F:393:VAL:HG11	1:F:406:GLY:O	2.20	0.41
1:F:490:ALA:HB1	1:F:499:PRO:HA	2.02	0.41
1:F:506:THR:O	1:F:507:LYS:HG3	2.20	0.41
1:G:424:THR:HG1	1:G:489:THR:HG23	1.81	0.41
1:H:186:LYS:N	1:H:290:MET:HE2	2.35	0.41
1:H:280:SER:O	1:H:282:THR:HG23	2.19	0.41
1:H:414:PRO:O	1:H:416:ILE:HD12	2.20	0.41
1:H:506:THR:O	1:H:507:LYS:HG3	2.20	0.41
1:H:605:SER:HB2	1:H:650:ILE:HG21	1.99	0.41
1:I:255:LEU:HD12	1:I:255:LEU:N	2.34	0.41
1:I:425:ILE:HG12	1:I:425:ILE:O	2.20	0.41
1:I:518:ARG:HD3	1:I:520:VAL:HG13	2.01	0.41
1:J:255:LEU:HD12	1:J:255:LEU:N	2.34	0.41
1:J:293:ASN:O	1:J:294:ASP:C	2.63	0.41
1:J:438:THR:O	1:J:438:THR:HG23	2.18	0.41
1:J:527:LEU:HD23	1:J:527:LEU:N	2.34	0.41
1:J:583:PHE:HB3	1:J:584:ASN:H	1.65	0.41
1:L:490:ALA:HB1	1:L:499:PRO:HA	2.02	0.41
1:L:512:GLN:CD	1:L:513:ASP:H	2.28	0.41
1:M:297:ASN:ND2	1:M:298:PRO:N	2.60	0.41
1:N:259:ARG:O	1:N:260:GLN:C	2.63	0.41
1:N:350:ILE:O	1:N:350:ILE:HG13	2.20	0.41
1:N:651:GLN:O	1:N:652:LEU:C	2.63	0.41
1:P:361:PHE:HE1	1:P:619:PHE:HZ	1.63	0.41
1:P:368:PHE:CD1	1:P:547:VAL:HG21	2.55	0.41
1:P:383:TRP:CZ3	1:P:503:ILE:HG21	2.54	0.41
1:P:450:GLU:C	1:P:451:TYR:CD2	2.98	0.41
1:P:490:ALA:HB1	1:P:499:PRO:HA	2.02	0.41
1:Q:186:LYS:N	1:Q:290:MET:HE2	2.35	0.41
1:Q:527:LEU:HD23	1:Q:527:LEU:N	2.34	0.41
1:R:386:PRO:HG3	1:R:595:SER:OG	2.20	0.41
1:S:234:ILE:HD11	1:S:288:VAL:HB	2.02	0.41
1:S:412:ILE:C	1:S:413:VAL:HG22	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:425:ILE:HA	1:S:465:SER:OG	2.19	0.41
1:S:430:THR:O	1:S:462:ASN:ND2	2.53	0.41
1:S:512:GLN:HB3	1:S:514:ASN:OD1	2.20	0.41
1:S:655:ILE:HD12	1:S:655:ILE:O	2.19	0.41
1:T:234:ILE:HD11	1:T:288:VAL:HB	2.02	0.41
1:T:327:PRO:HA	1:T:328:PRO:HD3	1.89	0.41
1:T:425:ILE:HG12	1:T:425:ILE:O	2.20	0.41
1:T:512:GLN:CD	1:T:513:ASP:H	2.28	0.41
1:T:550:ILE:O	1:T:551:SER:HB3	2.20	0.41
1:T:641:PHE:N	1:T:642:PRO:CD	2.82	0.41
1:T:652:LEU:HD12	1:T:652:LEU:H	1.84	0.41
1:A:193:LEU:HD12	1:A:193:LEU:HA	1.78	0.41
1:A:435:TYR:O	1:A:436:ALA:C	2.63	0.41
1:A:601:LEU:CG	1:A:602:PRO:HD2	2.49	0.41
1:A:624:ASP:C	1:A:626:ASP:N	2.78	0.41
1:B:280:SER:CB	1:B:334:HIS:CG	2.80	0.41
1:B:603:PRO:HA	1:B:625:SER:HB3	2.01	0.41
1:C:234:ILE:HD11	1:C:288:VAL:HB	2.02	0.41
1:C:350:ILE:O	1:C:350:ILE:HG13	2.20	0.41
1:C:439:THR:HG1	1:C:457:ILE:N	2.18	0.41
1:C:512:GLN:CD	1:C:513:ASP:H	2.28	0.41
1:D:185:GLY:HA2	1:D:290:MET:CG	2.50	0.41
1:D:241:ASP:HA	1:D:242:PRO:HD3	1.85	0.41
1:D:288:VAL:CG1	1:D:289:ILE:N	2.83	0.41
1:D:350:ILE:CA	1:D:357:ASP:HA	2.44	0.41
1:D:393:VAL:HG11	1:D:406:GLY:O	2.20	0.41
1:D:512:GLN:HB3	1:D:514:ASN:OD1	2.20	0.41
1:E:262:GLU:HA	1:E:262:GLU:OE1	2.19	0.41
1:E:327:PRO:HG3	1:J:236:VAL:HA	2.02	0.41
1:E:404:GLY:O	1:E:405:ILE:C	2.63	0.41
1:E:405:ILE:HA	1:E:508:ILE:HG12	2.02	0.41
1:E:512:GLN:HB3	1:E:514:ASN:OD1	2.20	0.41
1:E:637:GLY:O	1:E:639:LEU:HD23	2.20	0.41
1:F:414:PRO:O	1:F:416:ILE:HD12	2.20	0.41
1:F:605:SER:HB2	1:F:650:ILE:HG21	1.99	0.41
1:G:506:THR:O	1:G:507:LYS:HG3	2.20	0.41
1:G:540:ILE:HB	1:G:582:VAL:HG22	2.03	0.41
1:G:641:PHE:N	1:G:642:PRO:CD	2.82	0.41
1:H:601:LEU:HG	1:H:602:PRO:HD2	2.02	0.41
1:H:641:PHE:N	1:H:642:PRO:CD	2.82	0.41
1:I:358:ILE:HD13	1:I:567:TYR:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:405:ILE:HA	1:I:508:ILE:HG12	2.02	0.41
1:I:512:GLN:HB3	1:I:514:ASN:OD1	2.20	0.41
1:I:583:PHE:O	1:I:584:ASN:CG	2.64	0.41
1:I:601:LEU:CG	1:I:602:PRO:HD2	2.49	0.41
1:J:193:LEU:HD12	1:J:193:LEU:HA	1.79	0.41
1:J:212:SER:O	1:J:320:PHE:HA	2.20	0.41
1:J:221:ILE:O	1:J:221:ILE:HG13	2.15	0.41
1:J:458:VAL:O	1:J:459:ASN:HB3	2.20	0.41
1:J:601:LEU:HD12	1:J:650:ILE:HD11	1.48	0.41
1:K:280:SER:CB	1:K:334:HIS:CG	2.80	0.41
1:K:405:ILE:HA	1:K:508:ILE:HG12	2.02	0.41
1:K:490:ALA:HB1	1:K:499:PRO:HA	2.02	0.41
1:L:190:LYS:HE3	1:L:652:LEU:HB3	1.42	0.41
1:L:437:VAL:HG13	1:L:439:THR:HA	2.00	0.41
1:M:462:ASN:HB3	1:M:463:PHE:H	1.70	0.41
1:M:518:ARG:HD3	1:M:520:VAL:HG13	2.01	0.41
1:N:259:ARG:O	1:R:259:ARG:CZ	2.68	0.41
1:O:234:ILE:HD11	1:O:288:VAL:HB	2.02	0.41
1:O:397:GLN:HG3	1:O:521:GLN:C	2.44	0.41
1:O:425:ILE:HG12	1:O:425:ILE:O	2.20	0.41
1:P:185:GLY:HA2	1:P:290:MET:CG	2.50	0.41
1:P:261:VAL:CG1	1:Q:260:GLN:CG	2.97	0.41
1:P:293:ASN:O	1:P:294:ASP:C	2.63	0.41
1:P:439:THR:CG2	1:P:457:ILE:CG1	2.91	0.41
1:P:651:GLN:O	1:P:652:LEU:C	2.63	0.41
1:Q:280:SER:CB	1:Q:334:HIS:CG	2.80	0.41
1:Q:404:GLY:O	1:Q:405:ILE:C	2.63	0.41
1:Q:405:ILE:HA	1:Q:508:ILE:HG12	2.02	0.41
1:Q:490:ALA:HB1	1:Q:499:PRO:HA	2.02	0.41
1:R:368:PHE:CD1	1:R:547:VAL:HG21	2.55	0.41
1:R:490:ALA:HB1	1:R:499:PRO:HA	2.02	0.41
1:S:327:PRO:HG3	1:T:236:VAL:HA	2.02	0.41
1:S:342:ILE:HD13	1:S:609:TYR:CD2	2.51	0.41
1:S:404:GLY:O	1:S:405:ILE:C	2.63	0.41
1:S:463:PHE:O	1:S:466:MET:HG2	2.20	0.41
1:T:450:GLU:C	1:T:451:TYR:CD2	2.98	0.41
1:A:358:ILE:HD13	1:A:567:TYR:CD2	2.56	0.41
1:A:395:ILE:HD11	1:A:524:ASP:HB2	2.01	0.41
1:A:397:GLN:HG3	1:A:521:GLN:C	2.44	0.41
1:A:512:GLN:CD	1:A:513:ASP:H	2.28	0.41
1:A:550:ILE:O	1:A:551:SER:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:234:ILE:HD11	1:B:288:VAL:HB	2.02	0.41
1:B:260:GLN:CG	1:Q:261:VAL:CG1	2.97	0.41
1:B:460:ASN:ND2	1:B:461:THR:H	2.17	0.41
1:B:463:PHE:O	1:B:466:MET:HG2	2.20	0.41
1:C:240:VAL:HG12	1:C:241:ASP:N	2.36	0.41
1:C:259:ARG:O	1:S:259:ARG:CZ	2.68	0.41
1:C:301:ASN:HB3	1:C:302:ASP:H	1.51	0.41
1:C:358:ILE:HD13	1:C:567:TYR:CD2	2.56	0.41
1:D:190:LYS:HE3	1:D:652:LEU:HB3	1.42	0.41
1:D:236:VAL:HA	1:L:327:PRO:HG3	2.02	0.41
1:D:259:ARG:NH2	1:S:223:GLY:O	2.47	0.41
1:E:185:GLY:HA2	1:E:290:MET:CG	2.50	0.41
1:E:259:ARG:CZ	1:O:259:ARG:O	2.68	0.41
1:E:293:ASN:O	1:E:294:ASP:C	2.62	0.41
1:E:506:THR:O	1:E:507:LYS:HG3	2.20	0.41
1:F:430:THR:O	1:F:462:ASN:ND2	2.53	0.41
1:G:227:PHE:O	1:I:224:SER:HB3	2.21	0.41
1:G:367:VAL:HG13	1:G:566:PHE:CZ	2.56	0.41
1:G:411:PHE:CD1	1:G:418:ASP:N	2.87	0.41
1:G:412:ILE:C	1:G:413:VAL:HG22	2.45	0.41
1:G:519:ASP:O	1:G:520:VAL:C	2.64	0.41
1:H:224:SER:HB3	1:O:227:PHE:O	2.21	0.41
1:H:386:PRO:HG3	1:H:595:SER:OG	2.19	0.41
1:I:368:PHE:CD1	1:I:547:VAL:HG21	2.55	0.41
1:I:393:VAL:HG11	1:I:406:GLY:O	2.20	0.41
1:I:403:LEU:H	1:I:403:LEU:HD12	1.84	0.41
1:I:512:GLN:CD	1:I:513:ASP:H	2.28	0.41
1:J:425:ILE:HG12	1:J:425:ILE:O	2.20	0.41
1:J:512:GLN:CD	1:J:513:ASP:H	2.28	0.41
1:J:637:GLY:O	1:J:639:LEU:HD23	2.20	0.41
1:J:652:LEU:HD12	1:J:652:LEU:N	2.34	0.41
1:K:240:VAL:HG12	1:K:241:ASP:N	2.36	0.41
1:K:241:ASP:HA	1:K:242:PRO:HD3	1.85	0.41
1:K:350:ILE:CA	1:K:357:ASP:HA	2.43	0.41
1:K:398:LYS:N	1:K:403:LEU:CD2	2.76	0.41
1:K:414:PRO:O	1:K:416:ILE:HD12	2.20	0.41
1:K:550:ILE:O	1:K:551:SER:HB3	2.20	0.41
1:L:186:LYS:N	1:L:290:MET:HE2	2.35	0.41
1:L:358:ILE:HD13	1:L:567:TYR:CD2	2.56	0.41
1:L:405:ILE:HA	1:L:508:ILE:HG12	2.02	0.41
1:M:186:LYS:N	1:M:290:MET:HE2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:275:LEU:HG	1:Q:275:LEU:HG	1.55	0.41
1:M:342:ILE:HD13	1:M:342:ILE:H	1.83	0.41
1:M:358:ILE:HD13	1:M:567:TYR:CD2	2.56	0.41
1:M:431:PRO:HB3	1:M:511:PHE:HZ	1.84	0.41
1:M:624:ASP:C	1:M:626:ASP:N	2.78	0.41
1:N:185:GLY:HA2	1:N:290:MET:CG	2.50	0.41
1:N:212:SER:O	1:N:320:PHE:HA	2.20	0.41
1:N:262:GLU:OE1	1:N:262:GLU:HA	2.19	0.41
1:N:358:ILE:HD13	1:N:567:TYR:CD2	2.56	0.41
1:N:368:PHE:CD1	1:N:547:VAL:HG21	2.55	0.41
1:N:481:ILE:O	1:N:481:ILE:HG22	2.19	0.41
1:N:512:GLN:CD	1:N:513:ASP:H	2.28	0.41
1:N:599:TYR:CD1	1:N:599:TYR:N	2.87	0.41
1:O:480:LYS:HB3	1:O:481:ILE:H	1.50	0.41
1:O:583:PHE:O	1:O:584:ASN:CG	2.64	0.41
1:O:607:ALA:HB3	1:O:623:ILE:CG1	2.49	0.41
1:P:224:SER:HB3	1:Q:227:PHE:O	2.21	0.41
1:P:301:ASN:HB3	1:P:302:ASP:H	1.51	0.41
1:P:358:ILE:HD13	1:P:567:TYR:CD2	2.56	0.41
1:Q:414:PRO:O	1:Q:416:ILE:HD12	2.20	0.41
1:Q:506:THR:O	1:Q:507:LYS:HG3	2.20	0.41
1:R:280:SER:O	1:R:282:THR:HG23	2.19	0.41
1:R:358:ILE:HD13	1:R:567:TYR:CD2	2.56	0.41
1:R:411:PHE:CD1	1:R:418:ASP:N	2.87	0.41
1:S:259:ARG:O	1:S:260:GLN:C	2.63	0.41
1:S:293:ASN:O	1:S:294:ASP:C	2.63	0.41
1:S:368:PHE:CD1	1:S:547:VAL:HG21	2.55	0.41
1:S:458:VAL:O	1:S:459:ASN:HB3	2.20	0.41
1:A:186:LYS:N	1:A:290:MET:HE2	2.35	0.41
1:A:259:ARG:O	1:A:260:GLN:C	2.63	0.41
1:A:261:VAL:CG1	1:J:260:GLN:CG	2.97	0.41
1:A:583:PHE:O	1:A:584:ASN:CG	2.64	0.41
1:B:293:ASN:O	1:B:294:ASP:C	2.62	0.41
1:B:383:TRP:O	1:B:413:VAL:HG21	2.21	0.41
1:B:445:ILE:C	1:B:447:THR:H	2.29	0.41
1:B:512:GLN:CD	1:B:513:ASP:H	2.28	0.41
1:C:259:ARG:CZ	1:K:259:ARG:O	2.68	0.41
1:C:259:ARG:O	1:C:260:GLN:C	2.63	0.41
1:C:383:TRP:O	1:C:413:VAL:HG21	2.21	0.41
1:D:260:GLN:HG3	1:S:261:VAL:CG1	2.47	0.41
1:D:358:ILE:HD13	1:D:567:TYR:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:386:PRO:HG3	1:D:595:SER:OG	2.20	0.41
1:D:405:ILE:HA	1:D:508:ILE:HG12	2.02	0.41
1:D:414:PRO:O	1:D:416:ILE:HD12	2.20	0.41
1:D:651:GLN:O	1:D:652:LEU:C	2.63	0.41
1:E:261:VAL:CG1	1:L:260:GLN:HG3	2.47	0.41
1:E:350:ILE:O	1:E:350:ILE:HG13	2.19	0.41
1:E:458:VAL:O	1:E:459:ASN:HB3	2.21	0.41
1:F:601:LEU:HG	1:F:602:PRO:HD2	2.02	0.41
1:G:229:GLY:C	1:I:222:SER:OG	2.63	0.41
1:G:229:GLY:C	1:I:222:SER:HG	2.26	0.41
1:G:234:ILE:HD11	1:G:288:VAL:HB	2.03	0.41
1:G:259:ARG:CZ	1:I:259:ARG:O	2.68	0.41
1:G:324:LEU:HD23	1:G:324:LEU:HA	1.73	0.41
1:G:342:ILE:HA	1:G:343:PRO:HD3	1.94	0.41
1:G:350:ILE:O	1:G:350:ILE:HG13	2.20	0.41
1:G:358:ILE:HD13	1:G:567:TYR:CD2	2.56	0.41
1:G:435:TYR:O	1:G:436:ALA:C	2.62	0.41
1:G:601:LEU:CG	1:G:602:PRO:HD2	2.49	0.41
1:H:458:VAL:O	1:H:459:ASN:HB3	2.20	0.41
1:H:583:PHE:HB3	1:H:584:ASN:H	1.65	0.41
1:I:641:PHE:C	1:I:643:LEU:N	2.79	0.41
1:J:222:SER:OG	1:P:229:GLY:C	2.64	0.41
1:J:223:GLY:O	1:P:259:ARG:NH2	2.47	0.41
1:J:234:ILE:HD11	1:J:288:VAL:HB	2.02	0.41
1:J:403:LEU:H	1:J:403:LEU:HD12	1.84	0.41
1:J:490:ALA:HB1	1:J:499:PRO:HA	2.02	0.41
1:J:591:SER:O	1:J:592:ARG:C	2.61	0.41
1:K:519:ASP:O	1:K:520:VAL:C	2.64	0.41
1:L:481:ILE:O	1:L:481:ILE:HG22	2.20	0.41
1:M:259:ARG:O	1:M:260:GLN:C	2.63	0.41
1:M:651:GLN:O	1:M:652:LEU:C	2.63	0.41
1:N:193:LEU:HD12	1:N:193:LEU:HA	1.78	0.41
1:N:367:VAL:HG13	1:N:566:PHE:CZ	2.56	0.41
1:N:414:PRO:O	1:N:416:ILE:HD12	2.20	0.41
1:N:463:PHE:O	1:N:466:MET:HG2	2.19	0.41
1:N:583:PHE:O	1:N:584:ASN:CG	2.64	0.41
1:O:240:VAL:HG12	1:O:241:ASP:N	2.35	0.41
1:O:288:VAL:CG1	1:O:289:ILE:N	2.83	0.41
1:O:367:VAL:HG13	1:O:566:PHE:CZ	2.56	0.41
1:O:368:PHE:CD1	1:O:547:VAL:HG21	2.55	0.41
1:O:490:ALA:HB1	1:O:499:PRO:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:234:ILE:HD11	1:P:288:VAL:HB	2.02	0.41
1:P:240:VAL:HG12	1:P:241:ASP:N	2.36	0.41
1:P:398:LYS:N	1:P:403:LEU:CD2	2.76	0.41
1:P:583:PHE:O	1:P:584:ASN:CG	2.64	0.41
1:Q:367:VAL:HG13	1:Q:566:PHE:CZ	2.56	0.41
1:Q:385:THR:C	1:Q:387:ARG:H	2.25	0.41
1:Q:412:ILE:C	1:Q:413:VAL:HG22	2.45	0.41
1:Q:540:ILE:HB	1:Q:582:VAL:HG22	2.02	0.41
1:Q:601:LEU:HG	1:Q:602:PRO:HD2	2.02	0.41
1:R:350:ILE:O	1:R:350:ILE:HG13	2.19	0.41
1:R:601:LEU:HG	1:R:602:PRO:HD2	2.02	0.41
1:S:185:GLY:HA2	1:S:290:MET:CG	2.50	0.41
1:S:212:SER:O	1:S:320:PHE:HA	2.20	0.41
1:S:350:ILE:CA	1:S:357:ASP:HA	2.43	0.41
1:S:637:GLY:O	1:S:639:LEU:HD23	2.20	0.41
1:T:212:SER:O	1:T:320:PHE:HA	2.20	0.41
1:T:358:ILE:HD13	1:T:567:TYR:CD2	2.56	0.41
1:T:383:TRP:CZ3	1:T:503:ILE:HG21	2.54	0.41
1:T:447:THR:O	1:T:447:THR:OG1	2.33	0.41
1:T:504:ASN:CB	1:T:505:PRO:CD	2.83	0.41
1:A:227:PHE:O	1:B:224:SER:HB3	2.21	0.41
1:A:259:ARG:O	1:J:259:ARG:CZ	2.68	0.41
1:A:271:LEU:CG	1:D:324:LEU:CD2	2.97	0.41
1:A:385:THR:HG23	1:A:386:PRO:HD2	2.02	0.41
1:A:480:LYS:NZ	1:E:575:TYR:O	2.52	0.41
1:B:262:GLU:HA	1:B:262:GLU:OE1	2.19	0.41
1:B:519:ASP:O	1:B:520:VAL:C	2.64	0.41
1:B:661:ILE:CG1	1:B:662:ARG:N	2.77	0.41
1:C:229:GLY:C	1:K:222:SER:OG	2.63	0.41
1:C:367:VAL:HG13	1:C:566:PHE:CZ	2.56	0.41
1:C:425:ILE:HG12	1:C:425:ILE:O	2.20	0.41
1:D:259:ARG:O	1:F:259:ARG:CZ	2.68	0.41
1:D:293:ASN:O	1:D:294:ASP:C	2.62	0.41
1:D:512:GLN:CD	1:D:513:ASP:H	2.28	0.41
1:E:224:SER:C	1:E:226:VAL:N	2.79	0.41
1:E:327:PRO:HA	1:E:328:PRO:HD3	1.89	0.41
1:E:383:TRP:O	1:E:413:VAL:HG21	2.21	0.41
1:E:550:ILE:O	1:E:551:SER:HB3	2.20	0.41
1:F:224:SER:HB3	1:K:227:PHE:O	2.21	0.41
1:F:368:PHE:CD1	1:F:547:VAL:HG21	2.55	0.41
1:F:458:VAL:O	1:F:459:ASN:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:651:GLN:O	1:F:652:LEU:C	2.63	0.41
1:G:438:THR:O	1:G:438:THR:HG23	2.18	0.41
1:G:481:ILE:O	1:G:481:ILE:HG22	2.19	0.41
1:H:229:GLY:C	1:T:222:SER:OG	2.63	0.41
1:H:259:ARG:O	1:H:260:GLN:C	2.63	0.41
1:H:358:ILE:HD13	1:H:567:TYR:CD2	2.56	0.41
1:H:512:GLN:CD	1:H:513:ASP:H	2.28	0.41
1:I:463:PHE:O	1:I:466:MET:HG2	2.20	0.41
1:I:510:VAL:CG1	1:I:511:PHE:N	2.45	0.41
1:K:358:ILE:HD13	1:K:567:TYR:CD2	2.56	0.41
1:K:359:THR:O	1:K:360:ASP:HB2	2.21	0.41
1:K:363:ILE:H	1:K:363:ILE:HG13	1.76	0.41
1:K:458:VAL:O	1:K:459:ASN:HB3	2.20	0.41
1:K:583:PHE:O	1:K:584:ASN:CG	2.64	0.41
1:L:448:PRO:O	1:L:448:PRO:CD	2.69	0.41
1:L:573:LEU:HD21	1:L:580:ILE:CD1	2.49	0.41
1:L:641:PHE:C	1:L:643:LEU:N	2.79	0.41
1:M:185:GLY:HA2	1:M:290:MET:CG	2.50	0.41
1:M:236:VAL:HA	1:Q:327:PRO:HG3	2.02	0.41
1:O:224:SER:C	1:O:226:VAL:N	2.79	0.41
1:O:259:ARG:O	1:O:260:GLN:C	2.63	0.41
1:O:386:PRO:HG3	1:O:595:SER:OG	2.20	0.41
1:O:412:ILE:C	1:O:413:VAL:HG22	2.45	0.41
1:O:512:GLN:CD	1:O:513:ASP:H	2.28	0.41
1:P:259:ARG:O	1:P:260:GLN:C	2.63	0.41
1:P:280:SER:OG	1:P:334:HIS:CD2	2.42	0.41
1:P:412:ILE:C	1:P:413:VAL:HG22	2.45	0.41
1:P:448:PRO:O	1:P:448:PRO:CD	2.69	0.41
1:P:601:LEU:HG	1:P:602:PRO:HD2	2.02	0.41
1:P:641:PHE:C	1:P:643:LEU:N	2.79	0.41
1:Q:212:SER:O	1:Q:320:PHE:HA	2.20	0.41
1:Q:234:ILE:HD11	1:Q:288:VAL:HB	2.02	0.41
1:Q:358:ILE:HD13	1:Q:567:TYR:CD2	2.56	0.41
1:Q:363:ILE:CG2	1:Q:636:ILE:HD12	2.48	0.41
1:Q:383:TRP:CZ3	1:Q:503:ILE:HG21	2.54	0.41
1:Q:425:ILE:HG12	1:Q:425:ILE:O	2.20	0.41
1:Q:481:ILE:O	1:Q:481:ILE:HG22	2.19	0.41
1:Q:512:GLN:CD	1:Q:513:ASP:H	2.28	0.41
1:Q:521:GLN:HE21	1:Q:521:GLN:HB3	1.76	0.41
1:Q:583:PHE:O	1:Q:584:ASN:CG	2.64	0.41
1:R:470:GLY:N	1:R:530:LEU:HD13	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:550:ILE:O	1:R:551:SER:HB3	2.20	0.41
1:S:481:ILE:O	1:S:481:ILE:HG22	2.19	0.41
1:S:506:THR:O	1:S:507:LYS:HG3	2.20	0.41
1:S:583:PHE:O	1:S:584:ASN:CG	2.64	0.41
1:T:186:LYS:N	1:T:290:MET:HE2	2.35	0.41
1:T:224:SER:C	1:T:226:VAL:N	2.79	0.41
1:T:462:ASN:HB3	1:T:463:PHE:H	1.69	0.41
1:T:481:ILE:O	1:T:481:ILE:HG22	2.19	0.41
1:A:472:LEU:HD22	1:A:473:GLN:N	2.36	0.41
1:A:637:GLY:O	1:A:639:LEU:HD23	2.20	0.41
1:B:185:GLY:HA2	1:B:290:MET:CG	2.50	0.41
1:B:224:SER:C	1:B:226:VAL:N	2.79	0.41
1:B:227:PHE:O	1:Q:224:SER:HB3	2.21	0.41
1:B:259:ARG:CZ	1:Q:259:ARG:O	2.68	0.41
1:B:324:LEU:CD2	1:F:271:LEU:CG	2.97	0.41
1:B:425:ILE:HG12	1:B:425:ILE:O	2.20	0.41
1:C:224:SER:C	1:C:226:VAL:N	2.79	0.41
1:C:405:ILE:HA	1:C:508:ILE:HG12	2.02	0.41
1:D:240:VAL:HG12	1:D:241:ASP:N	2.35	0.41
1:D:450:GLU:C	1:D:451:TYR:CD2	2.98	0.41
1:E:222:SER:OG	1:L:229:GLY:C	2.64	0.41
1:E:227:PHE:O	1:O:224:SER:HB3	2.21	0.41
1:E:261:VAL:CG1	1:L:260:GLN:CG	2.97	0.41
1:E:512:GLN:CD	1:E:513:ASP:H	2.28	0.41
1:E:587:ILE:O	1:E:588:LEU:C	2.64	0.41
1:F:412:ILE:C	1:F:413:VAL:HG22	2.45	0.41
1:F:445:ILE:C	1:F:447:THR:H	2.29	0.41
1:F:450:GLU:C	1:F:451:TYR:CD2	2.98	0.41
1:F:480:LYS:NZ	1:N:575:TYR:O	2.52	0.41
1:F:641:PHE:C	1:F:643:LEU:N	2.79	0.41
1:G:259:ARG:NH2	1:I:223:GLY:O	2.47	0.41
1:G:361:PHE:HE1	1:G:619:PHE:HZ	1.63	0.41
1:G:652:LEU:HD12	1:G:652:LEU:N	2.34	0.41
1:H:259:ARG:O	1:O:259:ARG:CZ	2.68	0.41
1:H:262:GLU:HA	1:H:262:GLU:OE1	2.19	0.41
1:H:293:ASN:O	1:H:294:ASP:C	2.63	0.41
1:H:611:ILE:HD12	1:H:619:PHE:HE1	1.82	0.41
1:I:383:TRP:CZ3	1:I:503:ILE:HG21	2.55	0.41
1:I:435:TYR:O	1:I:436:ALA:C	2.63	0.41
1:J:224:SER:HB3	1:P:227:PHE:O	2.21	0.41
1:J:259:ARG:O	1:P:259:ARG:CZ	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:367:VAL:HG13	1:J:566:PHE:CZ	2.56	0.41
1:K:350:ILE:O	1:K:350:ILE:HG13	2.19	0.41
1:K:367:VAL:HG13	1:K:566:PHE:CZ	2.56	0.41
1:K:412:ILE:C	1:K:413:VAL:HG22	2.45	0.41
1:L:185:GLY:HA2	1:L:290:MET:CG	2.50	0.41
1:L:583:PHE:HB3	1:L:584:ASN:H	1.65	0.41
1:L:583:PHE:O	1:L:584:ASN:CG	2.64	0.41
1:L:601:LEU:HG	1:L:602:PRO:HD2	2.02	0.41
1:M:221:ILE:O	1:M:221:ILE:HG13	2.15	0.41
1:M:227:PHE:O	1:R:224:SER:HB3	2.21	0.41
1:M:521:GLN:HE21	1:M:521:GLN:HB3	1.75	0.41
1:N:521:GLN:HE21	1:N:521:GLN:HB3	1.76	0.41
1:O:185:GLY:HA2	1:O:290:MET:CG	2.50	0.41
1:O:293:ASN:O	1:O:294:ASP:C	2.63	0.41
1:O:527:LEU:HD23	1:O:527:LEU:N	2.34	0.41
1:O:641:PHE:C	1:O:643:LEU:N	2.79	0.41
1:P:439:THR:CG2	1:P:457:ILE:CD1	2.87	0.41
1:Q:386:PRO:HG3	1:Q:595:SER:OG	2.19	0.41
1:Q:439:THR:CG2	1:Q:457:ILE:CD1	2.87	0.41
1:Q:507:LYS:H	1:Q:508:ILE:CD1	2.30	0.41
1:Q:601:LEU:CD1	1:Q:650:ILE:CG1	2.62	0.41
1:R:185:GLY:HA2	1:R:290:MET:CG	2.50	0.41
1:R:423:THR:HG22	1:R:546:LYS:O	2.21	0.41
1:S:385:THR:HG23	1:S:386:PRO:HD2	2.01	0.41
1:S:507:LYS:H	1:S:508:ILE:CD1	2.31	0.41
1:S:540:ILE:HB	1:S:582:VAL:HG22	2.02	0.41
1:T:350:ILE:O	1:T:350:ILE:HG13	2.19	0.41
1:T:405:ILE:HA	1:T:508:ILE:HG12	2.02	0.41
1:T:463:PHE:O	1:T:466:MET:HG2	2.20	0.41
1:T:506:THR:O	1:T:507:LYS:HG3	2.20	0.41
1:A:363:ILE:H	1:A:363:ILE:HG13	1.76	0.41
1:A:405:ILE:HA	1:A:508:ILE:HG12	2.02	0.41
1:B:240:VAL:HG12	1:B:241:ASP:N	2.36	0.41
1:B:367:VAL:HG13	1:B:566:PHE:CZ	2.56	0.41
1:B:583:PHE:O	1:B:584:ASN:CG	2.64	0.41
1:C:212:SER:O	1:C:320:PHE:HA	2.20	0.41
1:C:423:THR:HG22	1:C:546:LYS:O	2.21	0.41
1:C:507:LYS:H	1:C:508:ILE:CD1	2.31	0.41
1:D:227:PHE:O	1:S:224:SER:HB3	2.21	0.41
1:D:350:ILE:O	1:D:350:ILE:HG13	2.20	0.41
1:D:425:ILE:HG12	1:D:425:ILE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:540:ILE:HB	1:D:582:VAL:HG22	2.03	0.41
1:E:361:PHE:HE1	1:E:619:PHE:HZ	1.63	0.41
1:F:234:ILE:HD11	1:F:288:VAL:HB	2.02	0.41
1:G:222:SER:OG	1:N:229:GLY:C	2.64	0.41
1:G:512:GLN:CD	1:G:513:ASP:H	2.28	0.41
1:G:601:LEU:HG	1:G:602:PRO:HD2	2.02	0.41
1:H:234:ILE:HD11	1:H:288:VAL:HB	2.02	0.41
1:H:240:VAL:HG12	1:H:241:ASP:N	2.36	0.41
1:H:327:PRO:HA	1:H:328:PRO:HD3	1.89	0.41
1:H:350:ILE:O	1:H:350:ILE:HG13	2.19	0.41
1:H:404:GLY:O	1:H:405:ILE:C	2.63	0.41
1:H:480:LYS:HB3	1:H:481:ILE:H	1.50	0.41
1:H:481:ILE:O	1:H:481:ILE:HG22	2.19	0.41
1:I:212:SER:O	1:I:320:PHE:HA	2.20	0.41
1:I:430:THR:O	1:I:462:ASN:ND2	2.53	0.41
1:I:458:VAL:O	1:I:459:ASN:HB3	2.20	0.41
1:I:506:THR:O	1:I:507:LYS:HG3	2.20	0.41
1:J:245:SER:OG	1:J:246:THR:N	2.54	0.41
1:J:259:ARG:O	1:J:260:GLN:C	2.63	0.41
1:J:587:ILE:O	1:J:588:LEU:C	2.64	0.41
1:J:651:GLN:O	1:J:652:LEU:C	2.63	0.41
1:K:185:GLY:HA2	1:K:290:MET:CG	2.50	0.41
1:K:236:VAL:HA	1:N:327:PRO:HG3	2.02	0.41
1:L:519:ASP:O	1:L:520:VAL:C	2.64	0.41
1:M:240:VAL:HG12	1:M:241:ASP:N	2.36	0.41
1:M:383:TRP:O	1:M:413:VAL:HG21	2.21	0.41
1:M:583:PHE:O	1:M:584:ASN:CG	2.64	0.41
1:N:240:VAL:HG12	1:N:241:ASP:N	2.36	0.41
1:N:412:ILE:C	1:N:413:VAL:HG22	2.45	0.41
1:N:550:ILE:O	1:N:551:SER:HB3	2.20	0.41
1:N:624:ASP:C	1:N:626:ASP:N	2.78	0.41
1:O:435:TYR:O	1:O:436:ALA:C	2.62	0.41
1:O:458:VAL:O	1:O:459:ASN:HB3	2.20	0.41
1:O:563:HIS:HA	1:O:564:PRO:HD3	1.83	0.41
1:P:472:LEU:HD22	1:P:473:GLN:N	2.36	0.41
1:Q:327:PRO:HA	1:Q:328:PRO:HD3	1.89	0.41
1:Q:385:THR:HG23	1:Q:386:PRO:HD2	2.01	0.41
1:R:414:PRO:O	1:R:416:ILE:HD12	2.20	0.41
1:S:652:LEU:C	1:S:654:LYS:N	2.79	0.41
1:T:383:TRP:O	1:T:413:VAL:HG21	2.21	0.41
1:T:385:THR:HG23	1:T:386:PRO:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:637:GLY:O	1:T:639:LEU:HD23	2.20	0.41
1:A:203:HIS:NE2	1:E:203:HIS:NE2	2.32	0.41
1:A:222:SER:OG	1:J:229:GLY:C	2.64	0.41
1:A:506:THR:O	1:A:507:LYS:HG3	2.20	0.41
1:A:602:PRO:CG	1:A:605:SER:CB	2.73	0.41
1:B:448:PRO:O	1:B:448:PRO:CD	2.69	0.41
1:B:462:ASN:HB3	1:B:463:PHE:H	1.70	0.41
1:D:186:LYS:N	1:D:290:MET:HE2	2.35	0.41
1:D:193:LEU:HA	1:D:193:LEU:HD12	1.79	0.41
1:D:448:PRO:O	1:D:448:PRO:CD	2.69	0.41
1:D:601:LEU:HG	1:D:602:PRO:HD2	2.02	0.41
1:E:186:LYS:N	1:E:290:MET:HE2	2.35	0.41
1:E:367:VAL:HG13	1:E:566:PHE:CZ	2.56	0.41
1:E:430:THR:O	1:E:462:ASN:ND2	2.53	0.41
1:E:441:ASN:C	1:E:441:ASN:OD1	2.64	0.41
1:E:472:LEU:HD22	1:E:473:GLN:N	2.36	0.41
1:F:175:SER:CB	1:F:311:THR:HA	2.47	0.41
1:F:261:VAL:CG1	1:K:260:GLN:CG	2.97	0.41
1:F:358:ILE:HD13	1:F:567:TYR:CD2	2.56	0.41
1:F:519:ASP:O	1:F:520:VAL:C	2.64	0.41
1:F:610:ARG:NH2	1:F:648:MET:HE2	2.32	0.41
1:G:212:SER:O	1:G:320:PHE:HA	2.20	0.41
1:G:240:VAL:HG12	1:G:241:ASP:N	2.35	0.41
1:G:615:ASN:HB2	1:G:616:GLY:H	1.72	0.41
1:H:227:PHE:O	1:T:224:SER:HB3	2.21	0.41
1:H:385:THR:HG23	1:H:386:PRO:HD2	2.02	0.41
1:H:412:ILE:C	1:H:413:VAL:HG22	2.45	0.41
1:I:190:LYS:HE3	1:I:652:LEU:HB3	1.42	0.41
1:I:240:VAL:HG12	1:I:241:ASP:N	2.35	0.41
1:I:587:ILE:O	1:I:588:LEU:C	2.64	0.41
1:J:240:VAL:HG12	1:J:241:ASP:N	2.36	0.41
1:J:358:ILE:HD13	1:J:567:TYR:CD2	2.56	0.41
1:J:540:ILE:HB	1:J:582:VAL:HG22	2.03	0.41
1:K:385:THR:HG23	1:K:386:PRO:HD2	2.02	0.41
1:K:463:PHE:O	1:K:466:MET:HG2	2.20	0.41
1:K:540:ILE:HB	1:K:582:VAL:HG22	2.03	0.41
1:K:624:ASP:C	1:K:626:ASP:N	2.78	0.41
1:K:651:GLN:O	1:K:652:LEU:C	2.63	0.41
1:L:221:ILE:O	1:L:221:ILE:HG13	2.15	0.41
1:L:222:SER:OG	1:T:229:GLY:C	2.64	0.41
1:L:297:ASN:ND2	1:L:298:PRO:HD2	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:327:PRO:HA	1:L:328:PRO:HD3	1.89	0.41
1:L:425:ILE:HG12	1:L:425:ILE:O	2.20	0.41
1:L:587:ILE:O	1:L:588:LEU:C	2.64	0.41
1:L:624:ASP:C	1:L:626:ASP:N	2.78	0.41
1:L:651:GLN:O	1:L:652:LEU:C	2.63	0.41
1:M:241:ASP:HA	1:M:242:PRO:HD3	1.85	0.41
1:M:297:ASN:ND2	1:M:298:PRO:HD2	2.31	0.41
1:M:478:ASP:HB3	1:M:479:LYS:H	1.61	0.41
1:M:540:ILE:HB	1:M:582:VAL:HG22	2.02	0.41
1:N:385:THR:HG23	1:N:386:PRO:HD2	2.02	0.41
1:N:507:LYS:H	1:N:508:ILE:CD1	2.31	0.41
1:P:212:SER:O	1:P:320:PHE:HA	2.20	0.41
1:P:350:ILE:O	1:P:350:ILE:HG13	2.19	0.41
1:P:512:GLN:HB3	1:P:514:ASN:OD1	2.20	0.41
1:P:587:ILE:O	1:P:588:LEU:C	2.64	0.41
1:P:652:LEU:C	1:P:654:LYS:N	2.79	0.41
1:Q:342:ILE:HD13	1:Q:609:TYR:CD2	2.51	0.41
1:Q:344:LYS:O	1:Q:345:SER:CB	2.64	0.41
1:Q:383:TRP:O	1:Q:413:VAL:HG21	2.21	0.41
1:Q:472:LEU:HD22	1:Q:473:GLN:N	2.36	0.41
1:Q:651:GLN:O	1:Q:652:LEU:C	2.63	0.41
1:R:234:ILE:HD11	1:R:288:VAL:HB	2.02	0.41
1:R:280:SER:CB	1:R:334:HIS:CG	2.80	0.41
1:R:359:THR:O	1:R:360:ASP:HB2	2.21	0.41
1:R:506:THR:O	1:R:507:LYS:HG3	2.20	0.41
1:R:611:ILE:HD12	1:R:619:PHE:HE1	1.82	0.41
1:S:414:PRO:O	1:S:416:ILE:HD12	2.20	0.41
1:S:447:THR:O	1:S:447:THR:OG1	2.33	0.41
1:S:583:PHE:HB3	1:S:584:ASN:H	1.65	0.41
1:T:367:VAL:HG13	1:T:566:PHE:CZ	2.56	0.41
1:T:439:THR:CG2	1:T:457:ILE:CD1	2.87	0.41
1:T:587:ILE:O	1:T:588:LEU:C	2.64	0.41
1:A:212:SER:O	1:A:320:PHE:HA	2.20	0.41
1:A:229:GLY:C	1:B:222:SER:OG	2.64	0.41
1:A:234:ILE:HD11	1:A:288:VAL:HB	2.02	0.41
1:A:240:VAL:HG12	1:A:241:ASP:N	2.36	0.41
1:A:275:LEU:HD12	1:L:275:LEU:CA	2.14	0.41
1:A:393:VAL:HG11	1:A:406:GLY:O	2.20	0.41
1:A:439:THR:HG1	1:A:457:ILE:CG1	2.11	0.41
1:A:441:ASN:C	1:A:441:ASN:OD1	2.64	0.41
1:A:490:ALA:HB1	1:A:499:PRO:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:512:GLN:HB3	1:A:514:ASN:OD1	2.20	0.41
1:B:212:SER:O	1:B:320:PHE:HA	2.20	0.41
1:B:297:ASN:ND2	1:B:298:PRO:N	2.60	0.41
1:B:359:THR:O	1:B:360:ASP:HB2	2.21	0.41
1:B:412:ILE:C	1:B:413:VAL:HG22	2.45	0.41
1:B:422:ASP:OD1	1:B:422:ASP:C	2.64	0.41
1:B:507:LYS:H	1:B:508:ILE:CD1	2.30	0.41
1:C:185:GLY:HA2	1:C:290:MET:CG	2.50	0.41
1:C:193:LEU:HA	1:C:193:LEU:HD12	1.78	0.41
1:C:221:ILE:O	1:C:221:ILE:HG13	2.15	0.41
1:C:393:VAL:HG11	1:C:406:GLY:O	2.20	0.41
1:C:422:ASP:OD1	1:C:422:ASP:C	2.64	0.41
1:C:430:THR:HA	1:C:431:PRO:HD3	1.92	0.41
1:D:224:SER:C	1:D:226:VAL:N	2.79	0.41
1:D:367:VAL:HG13	1:D:566:PHE:CZ	2.56	0.41
1:D:395:ILE:CD1	1:D:395:ILE:N	2.84	0.41
1:D:404:GLY:O	1:D:405:ILE:C	2.63	0.41
1:D:412:ILE:C	1:D:413:VAL:HG22	2.45	0.41
1:D:458:VAL:O	1:D:459:ASN:HB3	2.20	0.41
1:D:481:ILE:O	1:D:481:ILE:HG22	2.19	0.41
1:D:490:ALA:HB1	1:D:499:PRO:HA	2.02	0.41
1:D:506:THR:O	1:D:507:LYS:HG3	2.20	0.41
1:E:224:SER:HB3	1:L:227:PHE:O	2.21	0.41
1:E:240:VAL:HG12	1:E:241:ASP:N	2.36	0.41
1:E:519:ASP:O	1:E:520:VAL:C	2.64	0.41
1:E:540:ILE:HB	1:E:582:VAL:HG22	2.02	0.41
1:E:601:LEU:HG	1:E:602:PRO:HD2	2.02	0.41
1:E:641:PHE:C	1:E:643:LEU:N	2.79	0.41
1:E:652:LEU:C	1:E:654:LYS:N	2.79	0.41
1:F:185:GLY:HA2	1:F:290:MET:CG	2.50	0.41
1:F:186:LYS:N	1:F:290:MET:HE2	2.35	0.41
1:F:212:SER:O	1:F:320:PHE:HA	2.20	0.41
1:F:224:SER:O	1:F:226:VAL:N	2.54	0.41
1:F:240:VAL:HG12	1:F:241:ASP:N	2.35	0.41
1:F:405:ILE:HA	1:F:508:ILE:HG12	2.02	0.41
1:F:441:ASN:C	1:F:441:ASN:OD1	2.64	0.41
1:F:484:THR:CG2	1:F:485:ALA:H	2.27	0.41
1:F:516:VAL:CG1	1:F:520:VAL:HG21	2.51	0.41
1:G:186:LYS:N	1:G:290:MET:HE2	2.35	0.41
1:G:259:ARG:O	1:N:259:ARG:CZ	2.68	0.41
1:G:261:VAL:CG1	1:N:260:GLN:CG	2.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:280:SER:CB	1:G:334:HIS:CG	2.80	0.41
1:G:359:THR:O	1:G:360:ASP:HB2	2.21	0.41
1:G:414:PRO:O	1:G:416:ILE:HD12	2.20	0.41
1:G:422:ASP:OD1	1:G:422:ASP:C	2.64	0.41
1:G:423:THR:HG22	1:G:546:LYS:O	2.21	0.41
1:G:490:ALA:CB	1:G:499:PRO:HA	2.51	0.41
1:G:583:PHE:O	1:G:584:ASN:CG	2.64	0.41
1:H:185:GLY:HA2	1:H:290:MET:CG	2.50	0.41
1:H:288:VAL:CG1	1:H:289:ILE:N	2.83	0.41
1:H:422:ASP:OD1	1:H:422:ASP:C	2.64	0.41
1:H:445:ILE:C	1:H:447:THR:H	2.29	0.41
1:H:462:ASN:HB3	1:H:463:PHE:H	1.70	0.41
1:H:512:GLN:HB3	1:H:514:ASN:OD1	2.20	0.41
1:H:540:ILE:HB	1:H:582:VAL:HG22	2.03	0.41
1:H:606:PHE:HB3	1:H:607:ALA:H	1.72	0.41
1:I:224:SER:O	1:I:226:VAL:N	2.54	0.41
1:I:229:GLY:C	1:M:222:SER:OG	2.63	0.41
1:I:367:VAL:HG13	1:I:566:PHE:CZ	2.56	0.41
1:I:423:THR:HG22	1:I:546:LYS:O	2.21	0.41
1:I:441:ASN:C	1:I:441:ASN:OD1	2.64	0.41
1:I:490:ALA:HB1	1:I:499:PRO:HA	2.02	0.41
1:J:185:GLY:HA2	1:J:290:MET:CG	2.50	0.41
1:J:342:ILE:HD13	1:J:342:ILE:H	1.83	0.41
1:J:414:PRO:O	1:J:416:ILE:HD12	2.20	0.41
1:J:451:TYR:H	1:J:458:VAL:CB	2.16	0.41
1:K:259:ARG:O	1:K:260:GLN:C	2.63	0.41
1:K:271:LEU:CG	1:N:324:LEU:CD2	2.97	0.41
1:K:404:GLY:O	1:K:405:ILE:C	2.63	0.41
1:K:481:ILE:O	1:K:481:ILE:HG22	2.19	0.41
1:K:508:ILE:N	1:K:508:ILE:CD1	2.78	0.41
1:K:587:ILE:O	1:K:588:LEU:C	2.64	0.41
1:L:224:SER:HB3	1:T:227:PHE:O	2.21	0.41
1:L:224:SER:O	1:L:226:VAL:N	2.54	0.41
1:L:259:ARG:O	1:L:260:GLN:C	2.63	0.41
1:L:383:TRP:O	1:L:413:VAL:HG21	2.21	0.41
1:L:411:PHE:CD1	1:L:418:ASP:N	2.87	0.41
1:L:412:ILE:C	1:L:413:VAL:HG22	2.45	0.41
1:L:422:ASP:OD1	1:L:422:ASP:C	2.64	0.41
1:L:490:ALA:CB	1:L:499:PRO:HA	2.51	0.41
1:M:193:LEU:HD12	1:M:193:LEU:HA	1.78	0.41
1:M:271:LEU:CG	1:Q:324:LEU:CD2	2.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:422:ASP:OD1	1:M:422:ASP:C	2.64	0.41
1:M:472:LEU:HD22	1:M:473:GLN:N	2.36	0.41
1:M:615:ASN:HB2	1:M:616:GLY:H	1.72	0.41
1:M:641:PHE:C	1:M:643:LEU:N	2.79	0.41
1:N:222:SER:OG	1:R:229:GLY:C	2.63	0.41
1:N:224:SER:HB3	1:R:227:PHE:O	2.21	0.41
1:N:370:ALA:HA	1:N:554:PRO:HG3	2.03	0.41
1:N:383:TRP:O	1:N:413:VAL:HG21	2.21	0.41
1:N:405:ILE:HA	1:N:508:ILE:HG12	2.02	0.41
1:N:423:THR:HG22	1:N:546:LYS:O	2.21	0.41
1:N:472:LEU:HD22	1:N:473:GLN:N	2.36	0.41
1:N:519:ASP:O	1:N:520:VAL:C	2.64	0.41
1:O:280:SER:HB2	1:O:334:HIS:CE1	2.52	0.41
1:O:342:ILE:HD13	1:O:609:TYR:CD2	2.51	0.41
1:O:350:ILE:O	1:O:350:ILE:HG13	2.20	0.41
1:O:358:ILE:HD13	1:O:567:TYR:CD2	2.56	0.41
1:O:422:ASP:OD1	1:O:422:ASP:C	2.64	0.41
1:O:439:THR:CG2	1:O:457:ILE:CD1	2.87	0.41
1:O:490:ALA:CB	1:O:499:PRO:HA	2.51	0.41
1:P:224:SER:C	1:P:226:VAL:N	2.79	0.41
1:P:241:ASP:HA	1:P:242:PRO:HD3	1.85	0.41
1:P:414:PRO:O	1:P:416:ILE:HD12	2.20	0.41
1:P:458:VAL:O	1:P:459:ASN:HB3	2.21	0.41
1:P:512:GLN:CD	1:P:513:ASP:H	2.28	0.41
1:P:519:ASP:O	1:P:520:VAL:C	2.64	0.41
1:P:624:ASP:C	1:P:626:ASP:N	2.78	0.41
1:Q:224:SER:O	1:Q:226:VAL:N	2.54	0.41
1:Q:240:VAL:HG12	1:Q:241:ASP:N	2.36	0.41
1:Q:411:PHE:CD1	1:Q:418:ASP:N	2.87	0.41
1:Q:416:ILE:H	1:Q:416:ILE:CD1	2.10	0.41
1:Q:441:ASN:C	1:Q:441:ASN:OD1	2.64	0.41
1:Q:519:ASP:O	1:Q:520:VAL:C	2.64	0.41
1:Q:607:ALA:HB3	1:Q:623:ILE:CG1	2.49	0.41
1:R:241:ASP:HA	1:R:242:PRO:HD3	1.85	0.41
1:R:280:SER:OG	1:R:334:HIS:CD2	2.42	0.41
1:R:412:ILE:C	1:R:413:VAL:HG22	2.45	0.41
1:R:472:LEU:HD22	1:R:473:GLN:N	2.36	0.41
1:S:186:LYS:N	1:S:290:MET:HE2	2.35	0.41
1:S:275:LEU:HG	1:T:275:LEU:HG	1.55	0.41
1:S:395:ILE:CD1	1:S:395:ILE:N	2.84	0.41
1:S:448:PRO:O	1:S:448:PRO:CD	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:601:LEU:HG	1:S:602:PRO:HD2	2.02	0.41
1:T:185:GLY:HA2	1:T:290:MET:CG	2.50	0.41
1:T:411:PHE:CD1	1:T:418:ASP:N	2.87	0.41
1:T:414:PRO:O	1:T:416:ILE:HD12	2.20	0.41
1:T:423:THR:HG22	1:T:546:LYS:O	2.21	0.41
1:T:435:TYR:O	1:T:436:ALA:C	2.63	0.41
1:T:448:PRO:O	1:T:448:PRO:CD	2.69	0.41
1:T:458:VAL:O	1:T:459:ASN:HB3	2.20	0.41
1:T:615:ASN:HB2	1:T:616:GLY:H	1.72	0.41
1:A:224:SER:O	1:A:226:VAL:N	2.54	0.41
1:A:411:PHE:CD1	1:A:418:ASP:N	2.87	0.41
1:A:563:HIS:HA	1:A:564:PRO:HD3	1.83	0.41
1:A:601:LEU:HG	1:A:602:PRO:HD2	2.02	0.41
1:B:370:ALA:HA	1:B:554:PRO:HG3	2.03	0.41
1:B:458:VAL:O	1:B:459:ASN:HB3	2.20	0.41
1:B:490:ALA:HB1	1:B:499:PRO:HA	2.02	0.41
1:B:516:VAL:CG1	1:B:520:VAL:HG21	2.51	0.41
1:C:224:SER:O	1:C:226:VAL:N	2.54	0.41
1:C:227:PHE:O	1:K:224:SER:HB3	2.21	0.41
1:C:441:ASN:C	1:C:441:ASN:OD1	2.64	0.41
1:C:448:PRO:O	1:C:448:PRO:CD	2.69	0.41
1:C:540:ILE:HB	1:C:582:VAL:HG22	2.02	0.41
1:D:327:PRO:HA	1:D:328:PRO:HD3	1.89	0.41
1:D:383:TRP:O	1:D:413:VAL:HG21	2.21	0.41
1:D:423:THR:HG22	1:D:546:LYS:O	2.21	0.41
1:D:652:LEU:C	1:D:654:LYS:N	2.79	0.41
1:E:358:ILE:HD13	1:E:567:TYR:CD2	2.56	0.41
1:E:422:ASP:OD1	1:E:422:ASP:C	2.64	0.41
1:E:624:ASP:C	1:E:626:ASP:N	2.78	0.41
1:F:222:SER:OG	1:K:229:GLY:C	2.64	0.41
1:F:224:SER:C	1:F:226:VAL:N	2.79	0.41
1:F:367:VAL:HG13	1:F:566:PHE:CZ	2.56	0.41
1:F:411:PHE:CD1	1:F:418:ASP:N	2.87	0.41
1:F:423:THR:HG22	1:F:546:LYS:O	2.21	0.41
1:F:512:GLN:CD	1:F:513:ASP:H	2.28	0.41
1:G:224:SER:HB3	1:N:227:PHE:O	2.21	0.41
1:G:448:PRO:O	1:G:448:PRO:CD	2.69	0.41
1:H:261:VAL:CG1	1:O:260:GLN:CG	2.97	0.41
1:H:370:ALA:HA	1:H:554:PRO:HG3	2.03	0.41
1:H:383:TRP:O	1:H:413:VAL:HG21	2.21	0.41
1:H:462:ASN:O	1:H:464:LYS:N	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:285:THR:CG2	1:I:286:SER:N	2.84	0.41
1:I:383:TRP:O	1:I:413:VAL:HG21	2.21	0.41
1:I:472:LEU:HD22	1:I:473:GLN:N	2.36	0.41
1:J:224:SER:C	1:J:226:VAL:N	2.79	0.41
1:J:350:ILE:CA	1:J:357:ASP:HA	2.44	0.41
1:J:412:ILE:C	1:J:413:VAL:HG22	2.45	0.41
1:J:510:VAL:CG1	1:J:511:PHE:N	2.45	0.41
1:K:212:SER:O	1:K:320:PHE:HA	2.20	0.41
1:K:363:ILE:CG2	1:K:636:ILE:HD12	2.48	0.41
1:L:203:HIS:NE2	1:S:203:HIS:NE2	2.31	0.41
1:L:368:PHE:CD1	1:L:547:VAL:HG21	2.55	0.41
1:L:506:THR:O	1:L:507:LYS:HG3	2.20	0.41
1:L:652:LEU:C	1:L:654:LYS:N	2.79	0.41
1:M:212:SER:O	1:M:320:PHE:HA	2.20	0.41
1:M:423:THR:HG22	1:M:546:LYS:O	2.21	0.41
1:M:519:ASP:O	1:M:520:VAL:C	2.64	0.41
1:N:280:SER:OG	1:N:334:HIS:CD2	2.42	0.41
1:O:212:SER:O	1:O:320:PHE:HA	2.20	0.41
1:O:285:THR:CG2	1:O:286:SER:N	2.84	0.41
1:O:472:LEU:HD22	1:O:473:GLN:N	2.36	0.41
1:O:651:GLN:O	1:O:652:LEU:C	2.63	0.41
1:P:342:ILE:H	1:P:342:ILE:HD12	1.68	0.41
1:P:451:TYR:H	1:P:458:VAL:CB	2.16	0.41
1:Q:179:SER:N	1:Q:182:GLU:OE2	2.43	0.41
1:S:240:VAL:HG12	1:S:241:ASP:N	2.36	0.41
1:S:521:GLN:HE21	1:S:521:GLN:HB3	1.76	0.41
1:T:472:LEU:HD22	1:T:473:GLN:N	2.36	0.41
1:T:516:VAL:CG1	1:T:520:VAL:HG21	2.51	0.41
1:T:583:PHE:O	1:T:584:ASN:CG	2.64	0.41
1:A:273:SER:O	1:D:276:TYR:CE1	2.61	0.40
1:A:293:ASN:O	1:A:294:ASP:C	2.63	0.40
1:B:245:SER:OG	1:B:246:THR:N	2.54	0.40
1:B:327:PRO:HG3	1:F:236:VAL:HA	2.02	0.40
1:B:385:THR:HG23	1:B:386:PRO:HD2	2.01	0.40
1:B:423:THR:HG22	1:B:546:LYS:O	2.21	0.40
1:C:383:TRP:CD1	1:C:384:SER:HG	2.40	0.40
1:D:234:ILE:HD11	1:D:288:VAL:HB	2.02	0.40
1:D:245:SER:OG	1:D:246:THR:N	2.54	0.40
1:D:275:LEU:CA	1:L:275:LEU:HD12	2.14	0.40
1:D:490:ALA:CB	1:D:499:PRO:HA	2.51	0.40
1:D:516:VAL:CG1	1:D:520:VAL:HG21	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:229:GLY:C	1:O:222:SER:OG	2.64	0.40
1:E:280:SER:OG	1:E:334:HIS:CD2	2.42	0.40
1:E:516:VAL:CG1	1:E:520:VAL:HG21	2.51	0.40
1:E:583:PHE:O	1:E:584:ASN:CG	2.64	0.40
1:F:223:GLY:O	1:K:259:ARG:NH2	2.47	0.40
1:G:516:VAL:CG1	1:G:520:VAL:HG21	2.51	0.40
1:G:606:PHE:HB3	1:G:607:ALA:H	1.72	0.40
1:H:423:THR:HG22	1:H:546:LYS:O	2.21	0.40
1:H:583:PHE:O	1:H:584:ASN:CG	2.64	0.40
1:H:610:ARG:NH2	1:H:648:MET:HE2	2.32	0.40
1:I:490:ALA:CB	1:I:499:PRO:HA	2.51	0.40
1:I:601:LEU:HG	1:I:602:PRO:HD2	2.02	0.40
1:J:186:LYS:N	1:J:290:MET:HE2	2.35	0.40
1:J:280:SER:OG	1:J:334:HIS:CD2	2.42	0.40
1:J:359:THR:O	1:J:360:ASP:HB2	2.21	0.40
1:J:423:THR:HG22	1:J:546:LYS:O	2.21	0.40
1:J:462:ASN:O	1:J:464:LYS:N	2.51	0.40
1:J:583:PHE:O	1:J:584:ASN:CG	2.64	0.40
1:J:601:LEU:HG	1:J:602:PRO:HD2	2.02	0.40
1:K:370:ALA:HA	1:K:554:PRO:HG3	2.03	0.40
1:K:374:PHE:HZ	1:K:386:PRO:HD3	1.86	0.40
1:L:414:PRO:O	1:L:416:ILE:HD12	2.20	0.40
1:L:472:LEU:HD22	1:L:473:GLN:N	2.36	0.40
1:M:490:ALA:HB1	1:M:499:PRO:HA	2.02	0.40
1:M:512:GLN:CD	1:M:513:ASP:H	2.28	0.40
1:N:490:ALA:HB1	1:N:499:PRO:HA	2.02	0.40
1:N:506:THR:O	1:N:507:LYS:HG3	2.20	0.40
1:O:383:TRP:O	1:O:413:VAL:HG21	2.21	0.40
1:O:448:PRO:O	1:O:448:PRO:CD	2.69	0.40
1:O:470:GLY:N	1:O:530:LEU:HD13	2.31	0.40
1:O:540:ILE:HB	1:O:582:VAL:HG22	2.02	0.40
1:P:222:SER:OG	1:Q:229:GLY:C	2.63	0.40
1:P:288:VAL:CG1	1:P:289:ILE:N	2.83	0.40
1:P:516:VAL:CG1	1:P:520:VAL:HG21	2.51	0.40
1:Q:185:GLY:HA2	1:Q:290:MET:CG	2.50	0.40
1:Q:285:THR:CG2	1:Q:286:SER:N	2.85	0.40
1:R:259:ARG:O	1:R:260:GLN:C	2.63	0.40
1:R:288:VAL:CG1	1:R:289:ILE:N	2.83	0.40
1:R:350:ILE:CA	1:R:357:ASP:HA	2.44	0.40
1:R:516:VAL:CG1	1:R:520:VAL:HG21	2.51	0.40
1:R:641:PHE:C	1:R:643:LEU:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:356:THR:HG1	1:S:569:ASN:CG	2.14	0.40
1:S:423:THR:HG22	1:S:546:LYS:O	2.21	0.40
1:S:641:PHE:C	1:S:643:LEU:N	2.79	0.40
1:T:224:SER:O	1:T:226:VAL:N	2.54	0.40
1:T:490:ALA:CB	1:T:499:PRO:HA	2.51	0.40
1:A:221:ILE:O	1:A:221:ILE:HG13	2.15	0.40
1:A:374:PHE:HZ	1:A:386:PRO:HD3	1.87	0.40
1:A:652:LEU:C	1:A:654:LYS:N	2.79	0.40
1:B:229:GLY:C	1:Q:222:SER:OG	2.64	0.40
1:B:490:ALA:CB	1:B:499:PRO:HA	2.51	0.40
1:B:641:PHE:C	1:B:643:LEU:N	2.79	0.40
1:C:224:SER:HB3	1:S:227:PHE:O	2.21	0.40
1:C:370:ALA:HA	1:C:554:PRO:HG3	2.03	0.40
1:C:490:ALA:CB	1:C:499:PRO:HA	2.51	0.40
1:D:271:LEU:CG	1:L:324:LEU:CD2	2.97	0.40
1:D:385:THR:HG23	1:D:386:PRO:HD2	2.02	0.40
1:E:245:SER:OG	1:E:246:THR:N	2.54	0.40
1:E:288:VAL:CG1	1:E:289:ILE:N	2.83	0.40
1:E:448:PRO:O	1:E:448:PRO:CD	2.69	0.40
1:E:615:ASN:HB2	1:E:616:GLY:H	1.72	0.40
1:E:651:GLN:O	1:E:652:LEU:C	2.63	0.40
1:F:293:ASN:O	1:F:294:ASP:C	2.62	0.40
1:F:337:VAL:HG12	1:F:339:SER:H	1.87	0.40
1:F:383:TRP:O	1:F:413:VAL:HG21	2.21	0.40
1:F:587:ILE:O	1:F:588:LEU:C	2.64	0.40
1:G:259:ARG:O	1:G:260:GLN:C	2.63	0.40
1:G:425:ILE:HG12	1:G:425:ILE:O	2.20	0.40
1:H:212:SER:O	1:H:320:PHE:HA	2.20	0.40
1:H:222:SER:OG	1:O:229:GLY:C	2.63	0.40
1:H:233:ALA:HB3	1:H:254:VAL:HB	2.04	0.40
1:I:234:ILE:HD11	1:I:288:VAL:HB	2.02	0.40
1:I:293:ASN:O	1:I:294:ASP:C	2.62	0.40
1:I:370:ALA:HA	1:I:554:PRO:HG3	2.03	0.40
1:K:245:SER:OG	1:K:246:THR:N	2.54	0.40
1:K:422:ASP:OD1	1:K:422:ASP:C	2.64	0.40
1:K:472:LEU:HD22	1:K:473:GLN:N	2.36	0.40
1:K:516:VAL:CG1	1:K:520:VAL:HG21	2.51	0.40
1:L:367:VAL:HG13	1:L:566:PHE:CZ	2.56	0.40
1:M:245:SER:OG	1:M:246:THR:N	2.54	0.40
1:M:367:VAL:HG13	1:M:566:PHE:CZ	2.56	0.40
1:M:458:VAL:O	1:M:459:ASN:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:422:ASP:C	1:N:422:ASP:OD1	2.64	0.40
1:N:448:PRO:O	1:N:448:PRO:CD	2.69	0.40
1:N:462:ASN:O	1:N:464:LYS:N	2.51	0.40
1:O:337:VAL:HG12	1:O:339:SER:H	1.87	0.40
1:P:383:TRP:O	1:P:413:VAL:HG21	2.21	0.40
1:P:506:THR:O	1:P:507:LYS:HG3	2.20	0.40
1:Q:259:ARG:O	1:Q:260:GLN:C	2.63	0.40
1:Q:490:ALA:CB	1:Q:499:PRO:HA	2.51	0.40
1:Q:583:PHE:HB3	1:Q:584:ASN:H	1.65	0.40
1:R:212:SER:O	1:R:320:PHE:HA	2.20	0.40
1:R:233:ALA:HB3	1:R:254:VAL:HB	2.04	0.40
1:R:367:VAL:HG13	1:R:566:PHE:CZ	2.56	0.40
1:R:383:TRP:O	1:R:413:VAL:HG21	2.21	0.40
1:R:458:VAL:O	1:R:459:ASN:HB3	2.20	0.40
1:R:481:ILE:O	1:R:481:ILE:HG22	2.19	0.40
1:R:490:ALA:CB	1:R:499:PRO:HA	2.51	0.40
1:R:540:ILE:HB	1:R:582:VAL:HG22	2.02	0.40
1:S:280:SER:CB	1:S:334:HIS:CG	2.80	0.40
1:S:367:VAL:HG13	1:S:566:PHE:CZ	2.56	0.40
1:S:383:TRP:O	1:S:413:VAL:HG21	2.21	0.40
1:S:624:ASP:C	1:S:626:ASP:N	2.78	0.40
1:T:288:VAL:CG1	1:T:289:ILE:N	2.83	0.40
1:T:652:LEU:C	1:T:654:LYS:N	2.79	0.40
1:A:190:LYS:HE3	1:A:652:LEU:HB3	1.42	0.40
1:A:224:SER:HB3	1:J:227:PHE:O	2.21	0.40
1:A:236:VAL:HA	1:D:327:PRO:HG3	2.02	0.40
1:A:342:ILE:HD13	1:A:342:ILE:H	1.83	0.40
1:A:425:ILE:HG12	1:A:425:ILE:O	2.20	0.40
1:A:439:THR:CG2	1:A:457:ILE:CG1	2.91	0.40
1:A:507:LYS:H	1:A:508:ILE:CD1	2.31	0.40
1:B:178:TRP:NE1	1:B:291:ILE:HG21	2.37	0.40
1:B:358:ILE:HD13	1:B:567:TYR:CD2	2.56	0.40
1:B:431:PRO:O	1:B:432:ALA:HB2	2.22	0.40
1:C:363:ILE:H	1:C:363:ILE:HG13	1.76	0.40
1:C:431:PRO:HB3	1:C:511:PHE:HZ	1.84	0.40
1:C:458:VAL:O	1:C:459:ASN:HB3	2.20	0.40
1:D:285:THR:CG2	1:D:286:SER:N	2.84	0.40
1:D:370:ALA:HA	1:D:554:PRO:HG3	2.03	0.40
1:D:624:ASP:C	1:D:626:ASP:N	2.78	0.40
1:D:661:ILE:CG1	1:D:662:ARG:N	2.77	0.40
1:E:259:ARG:O	1:E:260:GLN:C	2.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:425:ILE:HG12	1:E:425:ILE:O	2.20	0.40
1:F:583:PHE:O	1:F:584:ASN:CG	2.64	0.40
1:G:245:SER:OG	1:G:246:THR:N	2.54	0.40
1:G:405:ILE:HA	1:G:508:ILE:HG12	2.02	0.40
1:H:218:ARG:NE	1:H:313:GLU:OE2	2.52	0.40
1:H:425:ILE:HG12	1:H:425:ILE:O	2.20	0.40
1:H:472:LEU:HD22	1:H:473:GLN:N	2.36	0.40
1:J:363:ILE:CG2	1:J:636:ILE:HD12	2.48	0.40
1:J:383:TRP:O	1:J:413:VAL:HG21	2.21	0.40
1:J:431:PRO:O	1:J:432:ALA:HB2	2.22	0.40
1:J:439:THR:CG2	1:J:457:ILE:CD1	2.87	0.40
1:J:490:ALA:CB	1:J:499:PRO:HA	2.51	0.40
1:K:285:THR:CG2	1:K:286:SER:N	2.85	0.40
1:K:652:LEU:C	1:K:654:LYS:N	2.79	0.40
1:L:218:ARG:NE	1:L:313:GLU:OE2	2.52	0.40
1:L:423:THR:HG22	1:L:546:LYS:O	2.21	0.40
1:M:224:SER:O	1:M:226:VAL:N	2.54	0.40
1:M:251:TYR:CD1	1:Q:328:PRO:HB2	2.42	0.40
1:M:430:THR:HA	1:M:431:PRO:HD3	1.92	0.40
1:M:441:ASN:C	1:M:441:ASN:OD1	2.64	0.40
1:N:234:ILE:HD11	1:N:288:VAL:HB	2.02	0.40
1:N:383:TRP:CD1	1:N:384:SER:HG	2.39	0.40
1:O:350:ILE:HA	1:O:356:THR:O	2.22	0.40
1:O:404:GLY:O	1:O:405:ILE:C	2.63	0.40
1:O:423:THR:HG22	1:O:546:LYS:O	2.21	0.40
1:P:404:GLY:O	1:P:405:ILE:C	2.63	0.40
1:Q:383:TRP:CD1	1:Q:384:SER:HG	2.40	0.40
1:Q:451:TYR:O	1:Q:453:SER:N	2.44	0.40
1:Q:458:VAL:O	1:Q:459:ASN:HB3	2.20	0.40
1:Q:610:ARG:NH2	1:Q:648:MET:HE2	2.32	0.40
1:R:193:LEU:HD12	1:R:193:LEU:HA	1.78	0.40
1:R:425:ILE:HG12	1:R:425:ILE:O	2.20	0.40
1:R:583:PHE:O	1:R:584:ASN:CG	2.64	0.40
1:R:587:ILE:O	1:R:588:LEU:C	2.64	0.40
1:S:358:ILE:HD13	1:S:567:TYR:CD2	2.56	0.40
1:S:435:TYR:O	1:S:436:ALA:C	2.62	0.40
1:S:535:ILE:CD1	1:S:535:ILE:H	2.35	0.40
1:T:240:VAL:HG12	1:T:241:ASP:N	2.36	0.40
1:A:245:SER:OG	1:A:246:THR:N	2.54	0.40
1:A:359:THR:O	1:A:360:ASP:HB2	2.21	0.40
1:A:367:VAL:HG13	1:A:566:PHE:CZ	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:VAL:O	1:A:459:ASN:HB3	2.21	0.40
1:A:480:LYS:HB3	1:A:481:ILE:H	1.50	0.40
1:A:516:VAL:CG1	1:A:520:VAL:HG21	2.51	0.40
1:A:607:ALA:HB3	1:A:623:ILE:CG1	2.49	0.40
1:B:236:VAL:HA	1:R:327:PRO:HG3	2.02	0.40
1:B:397:GLN:CB	1:B:521:GLN:HA	2.35	0.40
1:B:435:TYR:O	1:B:436:ALA:C	2.63	0.40
1:B:584:ASN:HD22	1:B:584:ASN:HA	1.69	0.40
1:C:245:SER:OG	1:C:246:THR:N	2.54	0.40
1:C:462:ASN:O	1:C:464:LYS:N	2.51	0.40
1:C:583:PHE:O	1:C:584:ASN:CG	2.64	0.40
1:C:610:ARG:NH2	1:C:648:MET:HE2	2.32	0.40
1:D:224:SER:O	1:D:226:VAL:N	2.54	0.40
1:D:233:ALA:HB3	1:D:254:VAL:HB	2.04	0.40
1:D:287:LEU:C	1:D:288:VAL:CG2	2.95	0.40
1:E:601:LEU:HD11	1:E:650:ILE:HD13	1.76	0.40
1:F:350:ILE:HA	1:F:356:THR:O	2.22	0.40
1:G:224:SER:O	1:G:226:VAL:N	2.54	0.40
1:G:260:GLN:CG	1:I:261:VAL:CG1	2.97	0.40
1:G:458:VAL:O	1:G:459:ASN:HB3	2.21	0.40
1:G:472:LEU:HD22	1:G:473:GLN:N	2.36	0.40
1:G:602:PRO:CG	1:G:605:SER:CB	2.73	0.40
1:H:362:VAL:O	1:H:565:ILE:HA	2.22	0.40
1:H:374:PHE:HZ	1:H:386:PRO:HD3	1.87	0.40
1:H:441:ASN:C	1:H:441:ASN:OD1	2.64	0.40
1:I:227:PHE:O	1:M:224:SER:HB3	2.21	0.40
1:I:383:TRP:CD1	1:I:384:SER:HG	2.40	0.40
1:I:478:ASP:HB3	1:I:479:LYS:H	1.61	0.40
1:I:519:ASP:O	1:I:520:VAL:C	2.64	0.40
1:J:224:SER:O	1:J:226:VAL:N	2.54	0.40
1:J:285:THR:CG2	1:J:286:SER:N	2.84	0.40
1:J:370:ALA:HA	1:J:554:PRO:HG3	2.03	0.40
1:J:624:ASP:C	1:J:626:ASP:N	2.78	0.40
1:K:162:VAL:C	1:K:164:SER:N	2.80	0.40
1:K:337:VAL:HG12	1:K:339:SER:H	1.87	0.40
1:K:423:THR:HG22	1:K:546:LYS:O	2.21	0.40
1:K:445:ILE:C	1:K:447:THR:H	2.29	0.40
1:L:240:VAL:HG12	1:L:241:ASP:N	2.35	0.40
1:L:504:ASN:CB	1:L:505:PRO:CD	2.83	0.40
1:L:615:ASN:HD21	1:L:640:GLU:HG2	1.87	0.40
1:M:162:VAL:C	1:M:164:SER:N	2.80	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:431:PRO:O	1:M:432:ALA:HB2	2.22	0.40
1:M:472:LEU:C	1:M:472:LEU:CD1	2.92	0.40
1:M:515:HIS:O	1:M:516:VAL:O	2.40	0.40
1:N:287:LEU:C	1:N:288:VAL:CG2	2.95	0.40
1:N:411:PHE:CD1	1:N:418:ASP:N	2.87	0.40
1:N:431:PRO:O	1:N:432:ALA:HB2	2.22	0.40
1:O:301:ASN:HB3	1:O:302:ASP:H	1.51	0.40
1:O:441:ASN:C	1:O:441:ASN:OD1	2.64	0.40
1:O:516:VAL:CG1	1:O:520:VAL:HG21	2.51	0.40
1:P:287:LEU:C	1:P:288:VAL:CG2	2.95	0.40
1:P:405:ILE:HA	1:P:508:ILE:HG12	2.02	0.40
1:P:431:PRO:O	1:P:432:ALA:HB2	2.22	0.40
1:P:540:ILE:HB	1:P:582:VAL:HG22	2.03	0.40
1:Q:218:ARG:NE	1:Q:313:GLU:OE2	2.52	0.40
1:Q:245:SER:OG	1:Q:246:THR:N	2.54	0.40
1:Q:423:THR:HG22	1:Q:546:LYS:O	2.21	0.40
1:R:245:SER:OG	1:R:246:THR:N	2.54	0.40
1:R:285:THR:CG2	1:R:286:SER:N	2.84	0.40
1:R:370:ALA:HB2	1:R:554:PRO:CG	2.52	0.40
1:R:515:HIS:O	1:R:516:VAL:O	2.40	0.40
1:R:651:GLN:O	1:R:652:LEU:C	2.63	0.40
1:S:422:ASP:OD1	1:S:422:ASP:C	2.64	0.40
1:S:519:ASP:O	1:S:520:VAL:C	2.64	0.40
1:T:221:ILE:HG22	1:T:310:VAL:CG1	2.52	0.40
1:T:233:ALA:HB3	1:T:254:VAL:HB	2.04	0.40
1:T:245:SER:OG	1:T:246:THR:N	2.54	0.40
1:T:431:PRO:O	1:T:432:ALA:HB2	2.22	0.40
1:T:651:GLN:O	1:T:652:LEU:C	2.63	0.40
1:A:412:ILE:C	1:A:413:VAL:HG22	2.45	0.40
1:A:422:ASP:OD1	1:A:422:ASP:C	2.64	0.40
1:A:472:LEU:C	1:A:472:LEU:CD1	2.92	0.40
1:A:490:ALA:CB	1:A:499:PRO:HA	2.51	0.40
1:A:519:ASP:O	1:A:520:VAL:C	2.64	0.40
1:A:641:PHE:C	1:A:643:LEU:N	2.79	0.40
1:B:259:ARG:O	1:B:260:GLN:C	2.63	0.40
1:B:405:ILE:HA	1:B:508:ILE:HG12	2.02	0.40
1:C:651:GLN:O	1:C:652:LEU:C	2.63	0.40
1:D:223:GLY:O	1:F:259:ARG:NH2	2.47	0.40
1:D:337:VAL:HG12	1:D:339:SER:H	1.87	0.40
1:D:344:LYS:O	1:D:345:SER:CB	2.64	0.40
1:D:439:THR:CG2	1:D:457:ILE:CG1	2.91	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:472:LEU:HD22	1:D:473:GLN:N	2.36	0.40
1:E:337:VAL:HG12	1:E:339:SER:H	1.87	0.40
1:E:576:VAL:HG12	1:E:577:ILE:N	2.37	0.40
1:F:241:ASP:HA	1:F:242:PRO:HD3	1.85	0.40
1:F:297:ASN:ND2	1:F:298:PRO:N	2.60	0.40
1:F:327:PRO:HA	1:F:328:PRO:HD3	1.89	0.40
1:F:370:ALA:HB2	1:F:554:PRO:CG	2.52	0.40
1:F:422:ASP:OD1	1:F:422:ASP:C	2.64	0.40
1:G:437:VAL:CG1	1:G:438:THR:N	2.34	0.40
1:H:178:TRP:NE1	1:H:291:ILE:HG21	2.37	0.40
1:H:224:SER:O	1:H:226:VAL:N	2.54	0.40
1:H:354:TYR:HH	1:H:467:TYR:HE2	1.62	0.40
1:I:224:SER:C	1:I:226:VAL:N	2.79	0.40
1:I:280:SER:CB	1:I:334:HIS:CG	2.80	0.40
1:I:412:ILE:C	1:I:413:VAL:HG22	2.45	0.40
1:I:540:ILE:HB	1:I:582:VAL:HG22	2.03	0.40
1:J:287:LEU:C	1:J:288:VAL:CG2	2.95	0.40
1:J:341:LEU:HB2	1:J:342:ILE:HD13	2.04	0.40
1:J:362:VAL:O	1:J:565:ILE:HA	2.22	0.40
1:J:383:TRP:CD1	1:J:384:SER:HG	2.40	0.40
1:K:224:SER:C	1:K:226:VAL:N	2.79	0.40
1:K:383:TRP:CD1	1:K:384:SER:HG	2.40	0.40
1:L:193:LEU:HD12	1:L:193:LEU:HA	1.79	0.40
1:L:370:ALA:HB2	1:L:554:PRO:CG	2.52	0.40
1:L:602:PRO:CG	1:L:605:SER:CB	2.73	0.40
1:M:233:ALA:HB3	1:M:254:VAL:HB	2.04	0.40
1:M:287:LEU:C	1:M:288:VAL:CG2	2.95	0.40
1:M:359:THR:O	1:M:360:ASP:HB2	2.21	0.40
1:M:445:ILE:C	1:M:447:THR:H	2.29	0.40
1:M:448:PRO:O	1:M:448:PRO:CD	2.69	0.40
1:M:615:ASN:HD21	1:M:640:GLU:HG2	1.87	0.40
1:N:245:SER:OG	1:N:246:THR:N	2.54	0.40
1:N:342:ILE:HD13	1:N:342:ILE:H	1.83	0.40
1:N:374:PHE:HZ	1:N:386:PRO:HD3	1.86	0.40
1:N:516:VAL:CG1	1:N:520:VAL:HG21	2.51	0.40
1:O:166:TRP:C	1:O:168:ALA:N	2.71	0.40
1:P:353:ARG:N	1:P:584:ASN:HD21	2.16	0.40
1:P:370:ALA:HA	1:P:554:PRO:HG3	2.04	0.40
1:P:441:ASN:C	1:P:441:ASN:OD1	2.64	0.40
1:P:515:HIS:O	1:P:516:VAL:O	2.40	0.40
1:Q:178:TRP:NE1	1:Q:291:ILE:HG21	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:178:TRP:NE1	1:R:291:ILE:HG21	2.37	0.40
1:R:293:ASN:O	1:R:294:ASP:C	2.62	0.40
1:R:383:TRP:CD1	1:R:384:SER:HG	2.39	0.40
1:R:441:ASN:C	1:R:441:ASN:OD1	2.64	0.40
1:R:448:PRO:O	1:R:448:PRO:CD	2.69	0.40
1:R:519:ASP:O	1:R:520:VAL:C	2.64	0.40
1:S:190:LYS:HE3	1:S:652:LEU:HB3	1.42	0.40
1:S:322:PHE:HB3	1:S:323:HIS:H	1.69	0.40
1:S:651:GLN:O	1:S:652:LEU:C	2.63	0.40
1:T:259:ARG:O	1:T:260:GLN:C	2.63	0.40
1:T:441:ASN:C	1:T:441:ASN:OD1	2.64	0.40
1:T:519:ASP:O	1:T:520:VAL:C	2.64	0.40
1:T:540:ILE:HB	1:T:582:VAL:HG22	2.02	0.40

All (928) 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:C:493:GLU:O	1:C:518:ARG:CD[7_564]	0.17	2.03
1:G:251:TYR:CE1	1:M:327:PRO:O[9_555]	0.34	1.86
1:R:435:TYR:CD1	1:R:519:ASP:OD1[11_455]	0.35	1.85
1:O:251:TYR:CE1	1:T:327:PRO:O[5_555]	0.38	1.82
1:H:272:ARG:O	1:H:276:TYR:CE1[9_555]	0.40	1.80
1:C:327:PRO:C	1:E:251:TYR:CZ[9_555]	0.48	1.72
1:H:638:LYS:NZ	1:K:455:ASN:CA[2_565]	0.48	1.72
1:K:276:TYR:CE1	1:P:272:ARG:O[9_555]	0.48	1.72
1:N:251:TYR:CZ	1:P:327:PRO:C[9_555]	0.48	1.72
1:H:517:ASN:CB	1:N:498:GLU:OE2[6_556]	0.50	1.70
1:C:275:LEU:CD2	1:E:275:LEU:CD2[9_555]	0.51	1.69
1:N:275:LEU:CD2	1:P:275:LEU:CD2[9_555]	0.52	1.68
1:C:272:ARG:O	1:J:276:TYR:CE1[9_555]	0.53	1.67
1:L:493:GLU:C	1:M:518:ARG:N[3_555]	0.54	1.66
1:N:272:ARG:C	1:P:276:TYR:CZ[9_555]	0.54	1.66
1:N:251:TYR:CD1	1:P:328:PRO:CA[9_555]	0.55	1.65
1:C:251:TYR:CE1	1:J:327:PRO:O[9_555]	0.56	1.64
1:G:328:PRO:N	1:Q:251:TYR:CD1[9_555]	0.56	1.64
1:I:272:ARG:O	1:I:276:TYR:CE1[5_555]	0.56	1.64
1:C:276:TYR:CZ	1:E:272:ARG:C[9_555]	0.60	1.60
1:O:275:LEU:CD2	1:S:275:LEU:CD2[5_555]	0.60	1.60
1:O:327:PRO:C	1:S:251:TYR:CZ[5_555]	0.60	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:495:ASN:CG	1:C:516:VAL:C[7_564]	0.61	1.59
1:O:272:ARG:O	1:T:276:TYR:CE1[5_555]	0.61	1.59
1:C:495:ASN:ND2	1:C:516:VAL:O[7_564]	0.62	1.58
1:C:495:ASN:OD1	1:C:517:ASN:N[7_564]	0.64	1.56
1:H:638:LYS:CD	1:K:455:ASN:OD1[2_565]	0.64	1.56
1:G:575:TYR:O	1:P:480:LYS:NZ[9_555]	0.67	1.53
1:I:251:TYR:OH	1:I:327:PRO:CD[5_555]	0.68	1.52
1:O:276:TYR:CZ	1:S:272:ARG:C[5_555]	0.68	1.52
1:H:251:TYR:OH	1:H:327:PRO:CD[9_555]	0.69	1.51
1:C:328:PRO:CA	1:E:251:TYR:CD1[9_555]	0.71	1.49
1:G:327:PRO:N	1:Q:251:TYR:OH[9_555]	0.72	1.48
1:I:251:TYR:CE2	1:I:327:PRO:CG[5_555]	0.72	1.48
1:J:203:HIS:NE2	1:K:203:HIS:NE2[5_555]	0.72	1.48
1:O:328:PRO:N	1:S:251:TYR:CD1[5_555]	0.72	1.48
1:K:327:PRO:O	1:P:251:TYR:CE1[9_555]	0.73	1.47
1:G:272:ARG:O	1:M:276:TYR:CE1[9_555]	0.74	1.46
1:C:494:GLY:C	1:C:518:ARG:CB[7_564]	0.77	1.43
1:H:518:ARG:O	1:N:493:GLU:OE2[6_556]	0.77	1.43
1:K:327:PRO:CG	1:P:251:TYR:CE2[9_555]	0.77	1.43
1:G:275:LEU:CD2	1:Q:275:LEU:CD2[9_555]	0.78	1.42
1:G:276:TYR:CE1	1:Q:272:ARG:C[9_555]	0.78	1.42
1:G:327:PRO:C	1:Q:251:TYR:CZ[9_555]	0.78	1.42
1:G:276:TYR:CZ	1:Q:272:ARG:C[9_555]	0.81	1.39
1:H:251:TYR:CE2	1:H:327:PRO:CG[9_555]	0.81	1.39
1:O:327:PRO:N	1:S:251:TYR:OH[5_555]	0.81	1.39
1:H:251:TYR:CE1	1:H:327:PRO:O[9_555]	0.83	1.37
1:C:328:PRO:N	1:E:251:TYR:CD1[9_555]	0.85	1.35
1:C:480:LYS:NZ	1:O:575:TYR:O[9_555]	0.85	1.35
1:H:251:TYR:CE1	1:H:327:PRO:C[9_555]	0.85	1.35
1:H:519:ASP:N	1:N:493:GLU:OE1[6_556]	0.85	1.35
1:I:251:TYR:CD1	1:I:327:PRO:C[5_555]	0.85	1.35
1:G:276:TYR:CD1	1:Q:272:ARG:O[9_555]	0.86	1.34
1:H:251:TYR:CD1	1:H:327:PRO:C[9_555]	0.86	1.34
1:C:251:TYR:CE2	1:J:327:PRO:CG[9_555]	0.87	1.33
1:H:203:HIS:NE2	1:T:203:HIS:NE2[5_555]	0.87	1.33
1:H:517:ASN:CG	1:N:498:GLU:CD[6_556]	0.87	1.33
1:O:328:PRO:CA	1:S:251:TYR:CD1[5_555]	0.87	1.33
1:I:203:HIS:NE2	1:M:203:HIS:NE2[9_555]	0.88	1.32
1:I:251:TYR:CE1	1:I:327:PRO:O[5_555]	0.88	1.32
1:K:327:PRO:C	1:P:251:TYR:CD1[9_555]	0.88	1.32
1:C:493:GLU:C	1:C:518:ARG:CG[7_564]	0.89	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:328:PRO:N	1:S:251:TYR:CE1[5_555]	0.89	1.31
1:K:327:PRO:CD	1:P:251:TYR:OH[9_555]	0.91	1.29
1:C:328:PRO:N	1:E:251:TYR:CE1[9_555]	0.92	1.28
1:K:327:PRO:C	1:P:251:TYR:CE1[9_555]	0.92	1.28
1:N:251:TYR:CD1	1:P:328:PRO:N[9_555]	0.94	1.26
1:O:276:TYR:CE1	1:S:272:ARG:C[5_555]	0.94	1.26
1:L:493:GLU:C	1:M:517:ASN:C[3_555]	0.95	1.25
1:C:251:TYR:CE1	1:J:327:PRO:C[9_555]	0.96	1.24
1:G:251:TYR:CE2	1:M:327:PRO:CG[9_555]	0.97	1.23
1:C:327:PRO:N	1:E:251:TYR:OH[9_555]	0.98	1.22
1:G:328:PRO:CA	1:Q:251:TYR:CD1[9_555]	0.98	1.22
1:H:517:ASN:CB	1:N:498:GLU:CD[6_556]	0.98	1.22
1:L:493:GLU:CA	1:M:518:ARG:CA[3_555]	0.98	1.22
1:L:496:ASN:O	1:M:517:ASN:ND2[3_555]	0.98	1.22
1:C:398:LYS:CE	1:C:517:ASN:ND2[7_564]	0.99	1.21
1:C:575:TYR:O	1:O:480:LYS:NZ[9_555]	0.99	1.21
1:G:327:PRO:CA	1:Q:251:TYR:CE2[9_555]	0.99	1.21
1:O:251:TYR:CE2	1:T:327:PRO:CG[5_555]	0.99	1.21
1:G:327:PRO:CA	1:Q:251:TYR:CZ[9_555]	1.00	1.20
1:I:251:TYR:CZ	1:I:327:PRO:CG[5_555]	1.00	1.20
1:H:251:TYR:CE2	1:H:327:PRO:CB[9_555]	1.01	1.19
1:I:251:TYR:CE1	1:I:327:PRO:C[5_555]	1.01	1.19
1:O:251:TYR:CE1	1:T:327:PRO:C[5_555]	1.01	1.19
1:G:328:PRO:N	1:Q:251:TYR:CE1[9_555]	1.02	1.18
1:O:276:TYR:CD1	1:S:272:ARG:O[5_555]	1.03	1.17
1:C:251:TYR:CD1	1:J:327:PRO:C[9_555]	1.04	1.16
1:C:251:TYR:OH	1:J:327:PRO:CD[9_555]	1.05	1.15
1:O:276:TYR:CZ	1:S:273:SER:N[5_555]	1.05	1.15
1:C:494:GLY:N	1:C:518:ARG:CG[7_564]	1.06	1.14
1:G:480:LYS:NZ	1:P:575:TYR:O[9_555]	1.06	1.14
1:N:251:TYR:CE1	1:P:328:PRO:N[9_555]	1.06	1.14
1:O:327:PRO:CA	1:S:251:TYR:CZ[5_555]	1.08	1.12
1:C:276:TYR:CE1	1:E:272:ARG:C[9_555]	1.09	1.11
1:Q:479:LYS:CG	1:R:518:ARG:NH1[11_455]	1.09	1.11
1:K:327:PRO:CB	1:P:251:TYR:CE2[9_555]	1.10	1.10
1:C:275:LEU:CD1	1:E:275:LEU:CA[9_555]	1.12	1.08
1:C:276:TYR:CD1	1:E:272:ARG:O[9_555]	1.12	1.08
1:C:494:GLY:O	1:C:518:ARG:CB[7_564]	1.12	1.08
1:G:276:TYR:CZ	1:Q:273:SER:N[9_555]	1.12	1.08
1:I:251:TYR:CE2	1:I:327:PRO:CB[5_555]	1.12	1.08
1:N:272:ARG:CA	1:P:276:TYR:CZ[9_555]	1.12	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:275:LEU:CD1	1:S:275:LEU:CA[5_555]	1.12	1.08
1:O:251:TYR:OH	1:T:327:PRO:CD[5_555]	1.13	1.07
1:H:251:TYR:CZ	1:H:327:PRO:CG[9_555]	1.14	1.06
1:N:251:TYR:OH	1:P:327:PRO:N[9_555]	1.14	1.06
1:G:251:TYR:CD1	1:M:327:PRO:O[9_555]	1.15	1.05
1:N:251:TYR:CE2	1:P:327:PRO:C[9_555]	1.15	1.05
1:O:327:PRO:CA	1:S:251:TYR:CE2[5_555]	1.15	1.05
1:D:455:ASN:OD1	1:G:638:LYS:NZ[8_555]	1.16	1.04
1:G:327:PRO:C	1:Q:251:TYR:CE1[9_555]	1.16	1.04
1:H:517:ASN:ND2	1:N:498:GLU:CB[6_556]	1.16	1.04
1:N:272:ARG:CA	1:P:276:TYR:OH[9_555]	1.16	1.04
1:N:272:ARG:O	1:P:276:TYR:CD1[9_555]	1.16	1.04
1:C:276:TYR:CZ	1:E:273:SER:N[9_555]	1.17	1.03
1:C:493:GLU:C	1:C:518:ARG:CD[7_564]	1.17	1.03
1:G:165:GLU:OE2	1:P:208:TYR:OH[9_555]	1.17	1.03
1:G:251:TYR:CE1	1:M:327:PRO:C[9_555]	1.17	1.03
1:L:493:GLU:O	1:M:517:ASN:C[3_555]	1.17	1.03
1:H:518:ARG:O	1:N:493:GLU:CD[6_556]	1.18	1.02
1:J:387:ARG:NH2	1:K:348:LEU:CD2[5_555]	1.18	1.02
1:K:327:PRO:O	1:P:251:TYR:CD1[9_555]	1.18	1.02
1:L:494:GLY:N	1:M:517:ASN:C[3_555]	1.18	1.02
1:O:327:PRO:C	1:S:251:TYR:CE1[5_555]	1.18	1.02
1:C:251:TYR:CD1	1:J:327:PRO:O[9_555]	1.19	1.01
1:F:494:GLY:CA	1:F:518:ARG:CG[8_555]	1.19	1.01
1:I:251:TYR:CD1	1:I:327:PRO:O[5_555]	1.19	1.01
1:N:272:ARG:C	1:P:276:TYR:CE2[9_555]	1.19	1.01
1:C:495:ASN:ND2	1:C:516:VAL:C[7_564]	1.20	1.00
1:C:495:ASN:CG	1:C:517:ASN:N[7_564]	1.20	1.00
1:G:251:TYR:OH	1:M:327:PRO:CD[9_555]	1.20	1.00
1:N:272:ARG:C	1:P:276:TYR:CE1[9_555]	1.20	1.00
1:N:275:LEU:CA	1:P:275:LEU:CD1[9_555]	1.20	1.00
1:O:272:ARG:O	1:T:276:TYR:CZ[5_555]	1.20	1.00
1:H:519:ASP:CA	1:N:493:GLU:OE1[6_556]	1.21	0.99
1:I:575:TYR:CD1	1:M:480:LYS:CE[9_555]	1.21	0.99
1:G:327:PRO:CB	1:Q:251:TYR:CE2[9_555]	1.22	0.98
1:N:272:ARG:O	1:P:276:TYR:CG[9_555]	1.22	0.98
1:O:251:TYR:CD1	1:T:327:PRO:C[5_555]	1.22	0.98
1:C:251:TYR:CE2	1:J:327:PRO:CB[9_555]	1.23	0.97
1:C:327:PRO:C	1:E:251:TYR:CE1[9_555]	1.23	0.97
1:C:454:ALA:CB	1:O:462:ASN:OD1[2_564]	1.23	0.97
1:G:272:ARG:O	1:M:276:TYR:CZ[9_555]	1.23	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:275:LEU:CD1	1:Q:275:LEU:CA[9_555]	1.23	0.97
1:N:251:TYR:CZ	1:P:327:PRO:O[9_555]	1.23	0.97
1:C:327:PRO:CA	1:E:251:TYR:CZ[9_555]	1.24	0.96
1:O:251:TYR:CD1	1:T:327:PRO:O[5_555]	1.24	0.96
1:C:276:TYR:CZ	1:E:272:ARG:CA[9_555]	1.25	0.95
1:C:327:PRO:CA	1:E:251:TYR:CE2[9_555]	1.25	0.95
1:C:327:PRO:C	1:E:251:TYR:CE2[9_555]	1.26	0.94
1:C:208:TYR:OH	1:O:165:GLU:OE2[9_555]	1.27	0.93
1:C:276:TYR:CG	1:E:272:ARG:O[9_555]	1.27	0.93
1:H:517:ASN:ND2	1:N:498:GLU:CG[6_556]	1.27	0.93
1:I:575:TYR:CG	1:M:480:LYS:CE[9_555]	1.27	0.93
1:J:348:LEU:CD2	1:K:387:ARG:NH2[5_555]	1.27	0.93
1:H:348:LEU:CD2	1:T:387:ARG:NH2[5_555]	1.28	0.92
1:N:271:LEU:CB	1:P:324:LEU:CD1[9_555]	1.28	0.92
1:G:251:TYR:CD1	1:M:327:PRO:C[9_555]	1.29	0.91
1:H:251:TYR:CD1	1:H:327:PRO:O[9_555]	1.29	0.91
1:L:493:GLU:CA	1:M:518:ARG:N[3_555]	1.29	0.91
1:C:495:ASN:OD1	1:C:517:ASN:CA[7_564]	1.30	0.90
1:G:276:TYR:CG	1:Q:272:ARG:O[9_555]	1.30	0.90
1:N:251:TYR:CE1	1:P:327:PRO:C[9_555]	1.30	0.90
1:C:276:TYR:CE2	1:E:272:ARG:C[9_555]	1.31	0.89
1:N:251:TYR:CE2	1:P:327:PRO:CA[9_555]	1.31	0.89
1:O:272:ARG:CA	1:T:276:TYR:OH[5_555]	1.31	0.89
1:C:276:TYR:CE2	1:E:273:SER:N[9_555]	1.32	0.88
1:C:276:TYR:OH	1:E:272:ARG:CA[9_555]	1.32	0.88
1:C:495:ASN:CG	1:C:516:VAL:O[7_564]	1.32	0.88
1:G:251:TYR:CZ	1:M:327:PRO:CG[9_555]	1.32	0.88
1:I:480:LYS:CE	1:M:575:TYR:CD1[9_555]	1.32	0.88
1:C:272:ARG:C	1:J:276:TYR:CZ[9_555]	1.33	0.87
1:E:399:GLY:O	1:E:435:TYR:OH[6_456]	1.33	0.87
1:K:327:PRO:CG	1:P:251:TYR:CZ[9_555]	1.33	0.87
1:N:273:SER:N	1:P:276:TYR:CZ[9_555]	1.33	0.87
1:O:327:PRO:CB	1:S:251:TYR:CE2[5_555]	1.33	0.87
1:G:326:LYS:C	1:Q:251:TYR:OH[9_555]	1.34	0.86
1:I:348:LEU:CD2	1:M:387:ARG:NH2[9_555]	1.34	0.86
1:J:387:ARG:NH1	1:K:348:LEU:CB[5_555]	1.34	0.86
1:K:328:PRO:N	1:P:251:TYR:CD1[9_555]	1.34	0.86
1:L:494:GLY:N	1:M:517:ASN:O[3_555]	1.34	0.86
1:O:272:ARG:C	1:T:276:TYR:CZ[5_555]	1.34	0.86
1:O:276:TYR:CG	1:S:272:ARG:O[5_555]	1.34	0.86
1:C:272:ARG:O	1:J:276:TYR:CZ[9_555]	1.35	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:494:GLY:CA	1:C:518:ARG:CB[7_564]	1.35	0.85
1:H:517:ASN:CG	1:N:498:GLU:OE1[6_556]	1.35	0.85
1:I:348:LEU:CB	1:M:387:ARG:NH1[9_555]	1.35	0.85
1:C:165:GLU:OE2	1:O:208:TYR:OH[9_555]	1.36	0.84
1:C:428:LYS:O	1:C:478:ASP:OD2[7_564]	1.36	0.84
1:O:276:TYR:CE2	1:S:273:SER:N[5_555]	1.36	0.84
1:O:327:PRO:C	1:S:251:TYR:CE2[5_555]	1.36	0.84
1:C:272:ARG:CA	1:J:276:TYR:OH[9_555]	1.37	0.83
1:G:276:TYR:CZ	1:Q:272:ARG:CA[9_555]	1.37	0.83
1:G:276:TYR:CE1	1:Q:272:ARG:O[9_555]	1.37	0.83
1:G:324:LEU:CD2	1:Q:271:LEU:CG[9_555]	1.37	0.83
1:H:251:TYR:CD1	1:H:328:PRO:N[9_555]	1.37	0.83
1:O:251:TYR:CE2	1:T:327:PRO:CB[5_555]	1.37	0.83
1:C:327:PRO:O	1:E:251:TYR:CZ[9_555]	1.38	0.82
1:G:208:TYR:OH	1:P:165:GLU:OE2[9_555]	1.38	0.82
1:G:327:PRO:C	1:Q:251:TYR:CE2[9_555]	1.38	0.82
1:I:251:TYR:CZ	1:I:327:PRO:CD[5_555]	1.38	0.82
1:L:494:GLY:C	1:M:517:ASN:O[3_555]	1.38	0.82
1:N:271:LEU:CD2	1:P:324:LEU:CD2[9_555]	1.38	0.82
1:N:273:SER:N	1:P:276:TYR:CE2[9_555]	1.38	0.82
1:O:251:TYR:CZ	1:T:327:PRO:CG[5_555]	1.38	0.82
1:O:276:TYR:CZ	1:S:272:ARG:CA[5_555]	1.38	0.82
1:H:575:TYR:CD1	1:T:480:LYS:CE[5_555]	1.39	0.81
1:J:480:LYS:CE	1:K:575:TYR:CG[5_555]	1.39	0.81
1:C:251:TYR:CB	1:J:328:PRO:O[9_555]	1.40	0.80
1:C:251:TYR:CD1	1:J:328:PRO:N[9_555]	1.40	0.80
1:G:272:ARG:CA	1:M:276:TYR:OH[9_555]	1.40	0.80
1:K:276:TYR:CE1	1:P:272:ARG:C[9_555]	1.40	0.80
1:K:276:TYR:CZ	1:P:272:ARG:C[9_555]	1.40	0.80
1:L:494:GLY:CA	1:M:517:ASN:O[3_555]	1.40	0.80
1:N:251:TYR:CZ	1:P:327:PRO:CA[9_555]	1.40	0.80
1:O:276:TYR:CE1	1:S:272:ARG:O[5_555]	1.40	0.80
1:C:251:TYR:CZ	1:J:327:PRO:CG[9_555]	1.41	0.79
1:H:575:TYR:CG	1:T:480:LYS:CE[5_555]	1.41	0.79
1:I:480:LYS:CE	1:M:575:TYR:CE1[9_555]	1.41	0.79
1:K:276:TYR:CD1	1:P:272:ARG:O[9_555]	1.41	0.79
1:L:496:ASN:CB	1:M:517:ASN:OD1[3_555]	1.41	0.79
1:O:251:TYR:CB	1:T:328:PRO:O[5_555]	1.41	0.79
1:R:435:TYR:CD1	1:R:519:ASP:CG[11_455]	1.41	0.79
1:R:435:TYR:CG	1:R:519:ASP:OD1[11_455]	1.41	0.79
1:C:398:LYS:CD	1:C:517:ASN:ND2[7_564]	1.42	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:251:TYR:CB	1:M:328:PRO:O[9_555]	1.42	0.78
1:G:348:LEU:CD2	1:P:387:ARG:NH2[9_555]	1.42	0.78
1:H:272:ARG:C	1:H:276:TYR:CE1[9_555]	1.42	0.78
1:J:348:LEU:CB	1:K:387:ARG:NH1[5_555]	1.42	0.78
1:G:328:PRO:N	1:Q:251:TYR:CG[9_555]	1.43	0.77
1:H:348:LEU:CB	1:T:387:ARG:NH1[5_555]	1.43	0.77
1:I:575:TYR:CA	1:M:480:LYS:NZ[9_555]	1.43	0.77
1:L:494:GLY:O	1:M:517:ASN:O[3_555]	1.43	0.77
1:O:324:LEU:CD2	1:S:271:LEU:CB[5_555]	1.43	0.77
1:C:324:LEU:CD2	1:E:271:LEU:CG[9_555]	1.44	0.76
1:C:327:PRO:CB	1:E:251:TYR:CE2[9_555]	1.44	0.76
1:J:480:LYS:CE	1:K:575:TYR:CD1[5_555]	1.44	0.76
1:N:271:LEU:CG	1:P:324:LEU:CD2[9_555]	1.44	0.76
1:O:275:LEU:CD2	1:S:275:LEU:CG[5_555]	1.44	0.76
1:O:324:LEU:CD2	1:S:271:LEU:CG[5_555]	1.44	0.76
1:C:276:TYR:CE1	1:E:272:ARG:O[9_555]	1.45	0.75
1:C:324:LEU:CD1	1:E:271:LEU:CB[9_555]	1.45	0.75
1:G:324:LEU:CD2	1:Q:271:LEU:CB[9_555]	1.45	0.75
1:J:575:TYR:CD1	1:K:480:LYS:CE[5_555]	1.45	0.75
1:N:272:ARG:O	1:P:276:TYR:CE1[9_555]	1.46	0.74
1:O:272:ARG:C	1:T:276:TYR:OH[5_555]	1.46	0.74
1:O:276:TYR:OH	1:S:272:ARG:CA[5_555]	1.46	0.74
1:C:494:GLY:CA	1:C:518:ARG:C[7_564]	1.47	0.73
1:L:493:GLU:CA	1:M:518:ARG:CB[3_555]	1.47	0.73
1:C:275:LEU:CD2	1:E:275:LEU:CG[9_555]	1.48	0.72
1:G:276:TYR:CE2	1:Q:273:SER:N[9_555]	1.48	0.72
1:H:575:TYR:CA	1:T:480:LYS:NZ[5_555]	1.48	0.72
1:O:276:TYR:CE2	1:S:272:ARG:C[5_555]	1.48	0.72
1:O:326:LYS:C	1:S:251:TYR:OH[5_555]	1.48	0.72
1:C:272:ARG:O	1:J:276:TYR:CD1[9_555]	1.49	0.71
1:G:272:ARG:C	1:M:276:TYR:OH[9_555]	1.49	0.71
1:H:251:TYR:CZ	1:H:327:PRO:CD[9_555]	1.49	0.71
1:H:272:ARG:C	1:H:276:TYR:CZ[9_555]	1.49	0.71
1:H:480:LYS:CE	1:T:575:TYR:CD1[5_555]	1.49	0.71
1:L:494:GLY:N	1:M:518:ARG:N[3_555]	1.49	0.71
1:L:494:GLY:N	1:M:519:ASP:N[3_555]	1.49	0.71
1:N:272:ARG:O	1:P:276:TYR:CD2[9_555]	1.49	0.71
1:C:272:ARG:C	1:J:276:TYR:CE1[9_555]	1.50	0.70
1:C:493:GLU:O	1:C:518:ARG:CG[7_564]	1.50	0.70
1:G:272:ARG:C	1:M:276:TYR:CZ[9_555]	1.50	0.70
1:J:575:TYR:CG	1:K:480:LYS:NZ[5_555]	1.50	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:276:TYR:CZ	1:P:272:ARG:O[9_555]	1.50	0.70
1:C:324:LEU:CD2	1:E:271:LEU:CB[9_555]	1.51	0.69
1:G:275:LEU:CD2	1:Q:275:LEU:CG[9_555]	1.51	0.69
1:H:272:ARG:O	1:H:276:TYR:CD1[9_555]	1.51	0.69
1:H:518:ARG:C	1:N:493:GLU:CD[6_556]	1.51	0.69
1:H:518:ARG:C	1:N:493:GLU:OE1[6_556]	1.51	0.69
1:I:480:LYS:NZ	1:M:575:TYR:CG[9_555]	1.51	0.69
1:J:575:TYR:CG	1:K:480:LYS:CE[5_555]	1.51	0.69
1:K:276:TYR:OH	1:P:272:ARG:CA[9_555]	1.51	0.69
1:G:251:TYR:CE2	1:M:327:PRO:CB[9_555]	1.52	0.68
1:H:387:ARG:NH2	1:T:348:LEU:CD2[5_555]	1.52	0.68
1:H:517:ASN:ND2	1:N:498:GLU:CD[6_556]	1.52	0.68
1:I:165:GLU:OE1	1:M:325:LEU:CB[9_555]	1.52	0.68
1:L:496:ASN:CA	1:M:517:ASN:CG[3_555]	1.52	0.68
1:K:328:PRO:O	1:P:251:TYR:CB[9_555]	1.53	0.67
1:L:496:ASN:N	1:M:517:ASN:CB[3_555]	1.53	0.67
1:C:324:LEU:CD2	1:E:271:LEU:CD2[9_555]	1.54	0.66
1:C:494:GLY:CA	1:C:518:ARG:CA[7_564]	1.54	0.66
1:G:276:TYR:OH	1:Q:272:ARG:CA[9_555]	1.54	0.66
1:G:328:PRO:CD	1:Q:251:TYR:CD1[9_555]	1.54	0.66
1:I:251:TYR:CD1	1:I:328:PRO:N[5_555]	1.54	0.66
1:I:251:TYR:CD2	1:I:327:PRO:CB[5_555]	1.54	0.66
1:O:327:PRO:O	1:S:251:TYR:CZ[5_555]	1.54	0.66
1:C:387:ARG:NH2	1:O:348:LEU:CD2[9_555]	1.55	0.65
1:H:251:TYR:OH	1:H:327:PRO:N[9_555]	1.55	0.65
1:H:272:ARG:O	1:H:276:TYR:CZ[9_555]	1.55	0.65
1:J:480:LYS:NZ	1:K:575:TYR:CG[5_555]	1.55	0.65
1:N:251:TYR:CE2	1:P:327:PRO:CB[9_555]	1.55	0.65
1:C:252:PRO:CD	1:J:328:PRO:CD[9_555]	1.56	0.64
1:I:272:ARG:C	1:I:276:TYR:CE1[5_555]	1.56	0.64
1:N:251:TYR:CG	1:P:328:PRO:N[9_555]	1.56	0.64
1:O:251:TYR:CD1	1:T:328:PRO:N[5_555]	1.56	0.64
1:O:328:PRO:N	1:S:251:TYR:CG[5_555]	1.56	0.64
1:C:494:GLY:C	1:C:518:ARG:CA[7_564]	1.57	0.63
1:G:276:TYR:N	1:Q:273:SER:O[9_555]	1.57	0.63
1:H:251:TYR:CD2	1:H:327:PRO:CB[9_555]	1.57	0.63
1:I:355:TRP:CH2	1:M:390:PRO:CG[9_555]	1.57	0.63
1:K:327:PRO:CD	1:P:251:TYR:CZ[9_555]	1.57	0.63
1:O:251:TYR:CZ	1:T:327:PRO:O[5_555]	1.57	0.63
1:C:495:ASN:CB	1:C:516:VAL:CB[7_564]	1.58	0.62
1:C:495:ASN:CB	1:C:516:VAL:C[7_564]	1.58	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:276:TYR:CE1	1:Q:272:ARG:CA[9_555]	1.58	0.62
1:G:525:VAL:CG1	1:P:578:ARG:NH1[9_555]	1.58	0.62
1:H:165:GLU:OE1	1:T:325:LEU:CB[5_555]	1.58	0.62
1:H:251:TYR:CZ	1:H:327:PRO:N[9_555]	1.58	0.62
1:K:327:PRO:N	1:P:251:TYR:OH[9_555]	1.58	0.62
1:K:327:PRO:N	1:P:251:TYR:CZ[9_555]	1.58	0.62
1:C:328:PRO:N	1:E:251:TYR:CG[9_555]	1.59	0.61
1:H:480:LYS:CE	1:T:575:TYR:CE1[5_555]	1.59	0.61
1:I:575:TYR:CG	1:M:480:LYS:NZ[9_555]	1.59	0.61
1:J:480:LYS:NZ	1:K:575:TYR:CA[5_555]	1.59	0.61
1:L:493:GLU:O	1:M:518:ARG:N[3_555]	1.59	0.61
1:O:327:PRO:CA	1:S:251:TYR:OH[5_555]	1.59	0.61
1:C:272:ARG:C	1:J:276:TYR:OH[9_555]	1.60	0.60
1:H:638:LYS:NZ	1:K:455:ASN:N[2_565]	1.60	0.60
1:I:387:ARG:NH1	1:M:348:LEU:CB[9_555]	1.60	0.60
1:I:387:ARG:NH2	1:M:348:LEU:CD2[9_555]	1.60	0.60
1:K:327:PRO:CB	1:P:251:TYR:CD2[9_555]	1.60	0.60
1:N:275:LEU:CG	1:P:275:LEU:CD2[9_555]	1.60	0.60
1:O:252:PRO:CD	1:T:328:PRO:CD[5_555]	1.60	0.60
1:O:324:LEU:CD1	1:S:271:LEU:CB[5_555]	1.60	0.60
1:C:251:TYR:CZ	1:J:327:PRO:O[9_555]	1.61	0.59
1:G:276:TYR:CE2	1:Q:272:ARG:C[9_555]	1.61	0.59
1:G:575:TYR:C	1:P:480:LYS:NZ[9_555]	1.61	0.59
1:H:518:ARG:C	1:N:493:GLU:OE2[6_556]	1.61	0.59
1:I:575:TYR:CB	1:M:480:LYS:NZ[9_555]	1.61	0.59
1:O:328:PRO:CD	1:S:251:TYR:CD1[5_555]	1.61	0.59
1:Q:479:LYS:CB	1:R:518:ARG:NH1[11_455]	1.61	0.59
1:C:326:LYS:C	1:E:251:TYR:OH[9_555]	1.62	0.58
1:D:455:ASN:CG	1:G:638:LYS:NZ[8_555]	1.62	0.58
1:G:324:LEU:CD1	1:Q:271:LEU:CB[9_555]	1.62	0.58
1:G:387:ARG:NH2	1:P:348:LEU:CD2[9_555]	1.62	0.58
1:H:638:LYS:NZ	1:K:455:ASN:CB[2_565]	1.62	0.58
1:N:271:LEU:CB	1:P:324:LEU:CG[9_555]	1.62	0.58
1:C:276:TYR:CD2	1:E:272:ARG:O[9_555]	1.63	0.57
1:C:348:LEU:CD2	1:O:387:ARG:NH2[9_555]	1.63	0.57
1:G:252:PRO:CD	1:M:328:PRO:CD[9_555]	1.63	0.57
1:G:276:TYR:CD1	1:Q:272:ARG:C[9_555]	1.63	0.57
1:H:251:TYR:CE1	1:H:327:PRO:CA[9_555]	1.63	0.57
1:H:251:TYR:CZ	1:H:327:PRO:CA[9_555]	1.63	0.57
1:H:387:ARG:NH1	1:T:348:LEU:CB[5_555]	1.63	0.57
1:H:517:ASN:ND2	1:N:498:GLU:OE1[6_556]	1.63	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:493:GLU:O	1:M:517:ASN:CA[3_555]	1.63	0.57
1:N:251:TYR:CE1	1:P:328:PRO:CA[9_555]	1.63	0.57
1:N:271:LEU:CB	1:P:324:LEU:CD2[9_555]	1.63	0.57
1:C:328:PRO:CB	1:E:251:TYR:CD1[9_555]	1.64	0.56
1:C:493:GLU:O	1:C:518:ARG:NE[7_564]	1.64	0.56
1:G:327:PRO:N	1:Q:251:TYR:CZ[9_555]	1.64	0.56
1:G:327:PRO:O	1:Q:251:TYR:CZ[9_555]	1.64	0.56
1:I:251:TYR:CE1	1:I:327:PRO:CA[5_555]	1.64	0.56
1:I:251:TYR:CZ	1:I:327:PRO:N[5_555]	1.64	0.56
1:I:272:ARG:O	1:I:276:TYR:CD1[5_555]	1.64	0.56
1:I:389:ARG:NH1	1:M:357:ASP:OD1[9_555]	1.64	0.56
1:L:496:ASN:C	1:M:517:ASN:OD1[3_555]	1.64	0.56
1:C:251:TYR:OH	1:J:327:PRO:N[9_555]	1.65	0.55
1:C:324:LEU:CG	1:E:271:LEU:CB[9_555]	1.65	0.55
1:C:495:ASN:OD1	1:C:516:VAL:C[7_564]	1.65	0.55
1:G:251:TYR:CZ	1:M:327:PRO:O[9_555]	1.65	0.55
1:G:578:ARG:NH1	1:P:525:VAL:CG1[9_555]	1.65	0.55
1:H:480:LYS:NZ	1:T:575:TYR:CG[5_555]	1.65	0.55
1:H:638:LYS:CE	1:K:455:ASN:N[2_565]	1.65	0.55
1:I:272:ARG:O	1:I:276:TYR:CZ[5_555]	1.65	0.55
1:L:496:ASN:N	1:M:517:ASN:CG[3_555]	1.65	0.55
1:O:276:TYR:N	1:S:273:SER:O[5_555]	1.65	0.55
1:C:328:PRO:N	1:E:251:TYR:CZ[9_555]	1.66	0.54
1:C:493:GLU:C	1:C:518:ARG:NE[7_564]	1.66	0.54
1:C:495:ASN:CB	1:C:516:VAL:CG1[7_564]	1.66	0.54
1:H:638:LYS:CD	1:K:455:ASN:CG[2_565]	1.66	0.54
1:J:575:TYR:CE1	1:K:480:LYS:CE[5_555]	1.66	0.54
1:L:493:GLU:C	1:M:518:ARG:CA[3_555]	1.66	0.54
1:L:496:ASN:CA	1:M:517:ASN:OD1[3_555]	1.66	0.54
1:N:251:TYR:CD1	1:P:328:PRO:CB[9_555]	1.66	0.54
1:O:272:ARG:O	1:T:276:TYR:CD1[5_555]	1.66	0.54
1:O:272:ARG:C	1:T:276:TYR:CE1[5_555]	1.66	0.54
1:C:327:PRO:CA	1:E:251:TYR:OH[9_555]	1.67	0.53
1:C:328:PRO:CA	1:E:251:TYR:CE1[9_555]	1.67	0.53
1:C:578:ARG:NH1	1:O:525:VAL:CG1[9_555]	1.67	0.53
1:H:251:TYR:CZ	1:H:327:PRO:CB[9_555]	1.67	0.53
1:G:327:PRO:CA	1:Q:251:TYR:OH[9_555]	1.68	0.52
1:H:519:ASP:CB	1:N:493:GLU:OE1[6_556]	1.68	0.52
1:I:272:ARG:C	1:I:276:TYR:CZ[5_555]	1.68	0.52
1:L:496:ASN:C	1:M:517:ASN:ND2[3_555]	1.68	0.52
1:N:251:TYR:CZ	1:P:328:PRO:N[9_555]	1.68	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:328:PRO:CB	1:S:251:TYR:CD1[5_555]	1.68	0.52
1:C:525:VAL:CG1	1:O:578:ARG:NH1[9_555]	1.69	0.51
1:G:324:LEU:CG	1:Q:271:LEU:CB[9_555]	1.69	0.51
1:H:272:ARG:CA	1:H:276:TYR:OH[9_555]	1.69	0.51
1:H:272:ARG:C	1:H:276:TYR:OH[9_555]	1.69	0.51
1:K:328:PRO:CD	1:P:252:PRO:CD[9_555]	1.69	0.51
1:L:494:GLY:CA	1:M:517:ASN:C[3_555]	1.69	0.51
1:N:251:TYR:CG	1:P:328:PRO:O[9_555]	1.69	0.51
1:O:324:LEU:CD2	1:S:271:LEU:CD2[5_555]	1.69	0.51
1:G:328:PRO:CD	1:Q:251:TYR:CG[9_555]	1.70	0.50
1:H:251:TYR:OH	1:H:327:PRO:CG[9_555]	1.70	0.50
1:H:575:TYR:CG	1:T:480:LYS:NZ[5_555]	1.70	0.50
1:I:251:TYR:CZ	1:I:327:PRO:CB[5_555]	1.70	0.50
1:I:480:LYS:CE	1:M:575:TYR:CG[9_555]	1.70	0.50
1:J:480:LYS:CE	1:K:575:TYR:CD2[5_555]	1.70	0.50
1:K:327:PRO:CA	1:P:251:TYR:CZ[9_555]	1.70	0.50
1:L:496:ASN:C	1:M:517:ASN:CG[3_555]	1.70	0.50
1:N:252:PRO:CD	1:P:328:PRO:CD[9_555]	1.70	0.50
1:O:324:LEU:CG	1:S:271:LEU:CB[5_555]	1.70	0.50
1:C:495:ASN:CB	1:C:516:VAL:CA[7_564]	1.71	0.49
1:G:276:TYR:CE1	1:Q:273:SER:N[9_555]	1.71	0.49
1:G:324:LEU:CD2	1:Q:271:LEU:CD2[9_555]	1.71	0.49
1:H:517:ASN:CG	1:N:498:GLU:OE2[6_556]	1.71	0.49
1:H:519:ASP:CB	1:N:493:GLU:CB[6_556]	1.71	0.49
1:I:251:TYR:OH	1:I:327:PRO:N[5_555]	1.71	0.49
1:I:251:TYR:OH	1:I:327:PRO:CG[5_555]	1.71	0.49
1:N:251:TYR:OH	1:P:326:LYS:C[9_555]	1.71	0.49
1:O:328:PRO:N	1:S:251:TYR:CZ[5_555]	1.71	0.49
1:R:519:ASP:OD2	1:R:575:TYR:OH[8_555]	1.71	0.49
1:C:251:TYR:CZ	1:J:327:PRO:N[9_555]	1.72	0.48
1:H:517:ASN:CG	1:N:498:GLU:CG[6_556]	1.72	0.48
1:J:203:HIS:CE1	1:K:203:HIS:NE2[5_555]	1.72	0.48
1:J:357:ASP:OD1	1:K:389:ARG:NH1[5_555]	1.72	0.48
1:K:276:TYR:OH	1:P:272:ARG:C[9_555]	1.72	0.48
1:L:493:GLU:CB	1:M:518:ARG:CB[3_555]	1.72	0.48
1:R:435:TYR:CE1	1:R:519:ASP:OD1[11_455]	1.72	0.48
1:C:251:TYR:CZ	1:J:327:PRO:CD[9_555]	1.73	0.47
1:C:275:LEU:CD2	1:J:275:LEU:CD2[9_555]	1.73	0.47
1:C:276:TYR:N	1:E:273:SER:O[9_555]	1.73	0.47
1:G:251:TYR:CD1	1:M:328:PRO:N[9_555]	1.73	0.47
1:G:275:LEU:CD1	1:Q:275:LEU:N[9_555]	1.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:519:ASP:CB	1:N:493:GLU:CD[6_556]	1.73	0.47
1:I:355:TRP:CZ3	1:M:390:PRO:CD[9_555]	1.73	0.47
1:N:251:TYR:CD1	1:P:328:PRO:C[9_555]	1.73	0.47
1:O:276:TYR:CE1	1:S:272:ARG:CA[5_555]	1.73	0.47
1:I:203:HIS:NE2	1:M:203:HIS:CE1[9_555]	1.74	0.46
1:O:275:LEU:CD1	1:S:275:LEU:N[5_555]	1.74	0.46
1:O:275:LEU:CD2	1:T:275:LEU:CD2[5_555]	1.74	0.46
1:C:276:TYR:CE1	1:E:272:ARG:CA[9_555]	1.75	0.45
1:C:493:GLU:CB	1:C:518:ARG:NE[7_564]	1.75	0.45
1:H:355:TRP:CH2	1:T:390:PRO:CG[5_555]	1.75	0.45
1:H:480:LYS:CE	1:T:575:TYR:CG[5_555]	1.75	0.45
1:I:163:ASP:O	1:M:208:TYR:OH[9_555]	1.75	0.45
1:I:357:ASP:OD1	1:M:389:ARG:NH1[9_555]	1.75	0.45
1:N:251:TYR:CG	1:P:328:PRO:CA[9_555]	1.75	0.45
1:N:272:ARG:O	1:P:276:TYR:CZ[9_555]	1.75	0.45
1:N:272:ARG:O	1:P:276:TYR:CE2[9_555]	1.75	0.45
1:N:272:ARG:CA	1:P:276:TYR:CE1[9_555]	1.75	0.45
1:C:251:TYR:CD2	1:J:327:PRO:CB[9_555]	1.76	0.44
1:H:203:HIS:NE2	1:T:203:HIS:CE1[5_555]	1.76	0.44
1:H:251:TYR:CB	1:H:328:PRO:O[9_555]	1.76	0.44
1:J:575:TYR:CD2	1:K:480:LYS:CE[5_555]	1.76	0.44
1:K:327:PRO:O	1:P:251:TYR:CZ[9_555]	1.76	0.44
1:N:251:TYR:CB	1:P:328:PRO:O[9_555]	1.76	0.44
1:O:251:TYR:OH	1:T:327:PRO:CG[5_555]	1.76	0.44
1:G:251:TYR:OH	1:M:327:PRO:CG[9_555]	1.77	0.43
1:I:251:TYR:CZ	1:I:327:PRO:CA[5_555]	1.77	0.43
1:J:389:ARG:NH1	1:K:357:ASP:OD1[5_555]	1.77	0.43
1:J:575:TYR:CA	1:K:480:LYS:NZ[5_555]	1.77	0.43
1:N:239:GLY:O	1:P:333:THR:CB[9_555]	1.77	0.43
1:O:251:TYR:OH	1:T:327:PRO:N[5_555]	1.77	0.43
1:C:251:TYR:CZ	1:J:327:PRO:CA[9_555]	1.78	0.42
1:C:328:PRO:CD	1:E:251:TYR:CD1[9_555]	1.78	0.42
1:C:455:ASN:OD1	1:O:432:ALA:CB[2_564]	1.78	0.42
1:C:480:LYS:NZ	1:O:575:TYR:C[9_555]	1.78	0.42
1:H:575:TYR:CB	1:T:480:LYS:NZ[5_555]	1.78	0.42
1:J:325:LEU:CB	1:K:165:GLU:OE1[5_555]	1.78	0.42
1:J:390:PRO:CG	1:K:355:TRP:CH2[5_555]	1.78	0.42
1:J:480:LYS:NZ	1:K:575:TYR:CB[5_555]	1.78	0.42
1:K:275:LEU:CD2	1:P:275:LEU:CD2[9_555]	1.78	0.42
1:O:276:TYR:CD1	1:S:272:ARG:C[5_555]	1.78	0.42
1:O:328:PRO:CA	1:S:251:TYR:CE1[5_555]	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:495:ASN:O	1:C:516:VAL:CG2[7_564]	1.79	0.41
1:H:274:THR:O	1:H:275:LEU:CD1[9_555]	1.79	0.41
1:I:272:ARG:C	1:I:276:TYR:OH[5_555]	1.79	0.41
1:J:480:LYS:CE	1:K:575:TYR:CE1[5_555]	1.79	0.41
1:N:235:VAL:O	1:P:327:PRO:CG[9_555]	1.79	0.41
1:G:275:LEU:CD1	1:Q:274:THR:O[9_555]	1.80	0.40
1:G:578:ARG:NH1	1:P:525:VAL:CG2[9_555]	1.80	0.40
1:H:389:ARG:NH1	1:T:357:ASP:OD1[5_555]	1.80	0.40
1:H:517:ASN:CB	1:N:498:GLU:OE1[6_556]	1.80	0.40
1:H:519:ASP:N	1:N:493:GLU:CD[6_556]	1.80	0.40
1:I:575:TYR:CE1	1:M:480:LYS:CE[9_555]	1.80	0.40
1:N:236:VAL:CB	1:P:330:SER:OG[9_555]	1.80	0.40
1:N:251:TYR:CE2	1:P:327:PRO:O[9_555]	1.80	0.40
1:O:276:TYR:CE1	1:S:273:SER:N[5_555]	1.80	0.40
1:G:328:PRO:CB	1:Q:251:TYR:CD1[9_555]	1.81	0.39
1:H:638:LYS:CE	1:K:455:ASN:OD1[2_565]	1.81	0.39
1:N:251:TYR:CE1	1:P:327:PRO:O[9_555]	1.81	0.39
1:N:251:TYR:OH	1:P:327:PRO:CA[9_555]	1.81	0.39
1:O:276:TYR:CD2	1:S:272:ARG:O[5_555]	1.81	0.39
1:O:327:PRO:N	1:S:251:TYR:CZ[5_555]	1.81	0.39
1:O:328:PRO:CD	1:S:251:TYR:CG[5_555]	1.81	0.39
1:Q:442:GLY:O	1:Q:517:ASN:OD1[8_555]	1.81	0.39
1:C:276:TYR:CZ	1:E:272:ARG:O[9_555]	1.82	0.38
1:G:272:ARG:O	1:M:276:TYR:CD1[9_555]	1.82	0.38
1:G:272:ARG:N	1:M:276:TYR:OH[9_555]	1.82	0.38
1:G:272:ARG:C	1:M:276:TYR:CE1[9_555]	1.82	0.38
1:H:519:ASP:CB	1:N:493:GLU:CG[6_556]	1.82	0.38
1:I:480:LYS:CE	1:M:575:TYR:CZ[9_555]	1.82	0.38
1:K:327:PRO:CA	1:P:251:TYR:CE1[9_555]	1.82	0.38
1:L:493:GLU:CG	1:M:518:ARG:CB[3_555]	1.82	0.38
1:L:493:GLU:C	1:M:517:ASN:O[3_555]	1.82	0.38
1:C:327:PRO:C	1:E:251:TYR:OH[9_555]	1.83	0.37
1:C:328:PRO:O	1:E:251:TYR:CG[9_555]	1.83	0.37
1:F:494:GLY:CA	1:F:518:ARG:CD[8_555]	1.83	0.37
1:G:575:TYR:CD2	1:P:480:LYS:CE[9_555]	1.83	0.37
1:I:272:ARG:CA	1:I:276:TYR:OH[5_555]	1.83	0.37
1:J:203:HIS:NE2	1:K:203:HIS:CE1[5_555]	1.83	0.37
1:K:275:LEU:CD1	1:P:274:THR:O[9_555]	1.83	0.37
1:N:272:ARG:CB	1:P:276:TYR:OH[9_555]	1.83	0.37
1:C:454:ALA:CA	1:O:462:ASN:OD1[2_564]	1.84	0.36
1:C:494:GLY:N	1:C:518:ARG:CB[7_564]	1.84	0.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:327:PRO:C	1:Q:251:TYR:CD1[9_555]	1.84	0.36
1:H:638:LYS:CE	1:K:455:ASN:CA[2_565]	1.84	0.36
1:I:251:TYR:CB	1:I:328:PRO:O[5_555]	1.84	0.36
1:N:273:SER:O	1:P:276:TYR:N[9_555]	1.84	0.36
1:R:399:GLY:O	1:R:434:ASP:OD2[8_555]	1.84	0.36
1:C:328:PRO:C	1:E:251:TYR:CD1[9_555]	1.85	0.35
1:C:328:PRO:CD	1:E:252:PRO:CD[9_555]	1.85	0.35
1:G:165:GLU:OE2	1:P:208:TYR:CZ[9_555]	1.85	0.35
1:G:251:TYR:CZ	1:M:327:PRO:CD[9_555]	1.85	0.35
1:G:480:LYS:CE	1:P:575:TYR:CE2[9_555]	1.85	0.35
1:O:251:TYR:CZ	1:T:327:PRO:CD[5_555]	1.85	0.35
1:O:272:ARG:N	1:T:276:TYR:OH[5_555]	1.85	0.35
1:C:251:TYR:CZ	1:J:327:PRO:C[9_555]	1.86	0.34
1:C:327:PRO:O	1:E:251:TYR:CE1[9_555]	1.86	0.34
1:F:494:GLY:C	1:F:518:ARG:CG[8_555]	1.86	0.34
1:G:328:PRO:N	1:Q:251:TYR:CZ[9_555]	1.86	0.34
1:H:275:LEU:CD2	1:H:275:LEU:CD2[5_555]	1.86	0.34
1:J:355:TRP:CH2	1:K:390:PRO:CG[5_555]	1.86	0.34
1:N:251:TYR:OH	1:P:327:PRO:C[9_555]	1.86	0.34
1:O:327:PRO:CD	1:S:237:PRO:CD[5_555]	1.86	0.34
1:C:251:TYR:OH	1:J:327:PRO:CG[9_555]	1.87	0.33
1:C:276:TYR:CD1	1:E:272:ARG:C[9_555]	1.87	0.33
1:D:455:ASN:ND2	1:G:638:LYS:NZ[8_555]	1.87	0.33
1:G:324:LEU:CD2	1:Q:271:LEU:CD1[9_555]	1.87	0.33
1:G:578:ARG:CZ	1:P:525:VAL:CG2[9_555]	1.87	0.33
1:H:357:ASP:OD1	1:T:389:ARG:NH1[5_555]	1.87	0.33
1:H:575:TYR:CE1	1:T:480:LYS:CE[5_555]	1.87	0.33
1:I:203:HIS:CD2	1:M:203:HIS:NE2[9_555]	1.87	0.33
1:I:348:LEU:CD2	1:M:387:ARG:CZ[9_555]	1.87	0.33
1:K:327:PRO:CG	1:P:251:TYR:OH[9_555]	1.87	0.33
1:C:275:LEU:CD1	1:E:275:LEU:N[9_555]	1.88	0.32
1:C:328:PRO:CA	1:E:251:TYR:CG[9_555]	1.88	0.32
1:I:390:PRO:CG	1:M:355:TRP:CH2[9_555]	1.88	0.32
1:J:203:HIS:NE2	1:K:203:HIS:CD2[5_555]	1.88	0.32
1:J:575:TYR:CZ	1:K:480:LYS:CE[5_555]	1.88	0.32
1:K:327:PRO:CB	1:P:251:TYR:CZ[9_555]	1.88	0.32
1:L:494:GLY:N	1:M:518:ARG:C[3_555]	1.88	0.32
1:C:276:TYR:CE2	1:E:272:ARG:O[9_555]	1.89	0.31
1:G:327:PRO:CD	1:Q:251:TYR:OH[9_555]	1.89	0.31
1:H:348:LEU:CD2	1:T:387:ARG:CZ[5_555]	1.89	0.31
1:H:480:LYS:CE	1:T:575:TYR:CZ[5_555]	1.89	0.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:208:TYR:CE2	1:K:165:GLU:OE2[5_555]	1.89	0.31
1:J:575:TYR:CB	1:K:480:LYS:NZ[5_555]	1.89	0.31
1:K:327:PRO:C	1:P:251:TYR:CG[9_555]	1.89	0.31
1:N:275:LEU:CA	1:P:275:LEU:CG[9_555]	1.89	0.31
1:R:435:TYR:CG	1:R:519:ASP:CG[11_455]	1.89	0.31
1:C:275:LEU:CG	1:E:275:LEU:CA[9_555]	1.90	0.30
1:C:328:PRO:O	1:E:251:TYR:CB[9_555]	1.90	0.30
1:G:276:TYR:CD2	1:Q:272:ARG:O[9_555]	1.90	0.30
1:H:163:ASP:O	1:T:208:TYR:OH[5_555]	1.90	0.30
1:H:325:LEU:CB	1:T:165:GLU:OE1[5_555]	1.90	0.30
1:H:575:TYR:CD2	1:T:480:LYS:CE[5_555]	1.90	0.30
1:I:165:GLU:CG	1:M:325:LEU:CD2[9_555]	1.90	0.30
1:I:575:TYR:CD2	1:M:480:LYS:CE[9_555]	1.90	0.30
1:J:165:GLU:OE1	1:K:325:LEU:CB[5_555]	1.90	0.30
1:N:251:TYR:CG	1:P:328:PRO:C[9_555]	1.90	0.30
1:O:251:TYR:CZ	1:T:327:PRO:C[5_555]	1.90	0.30
1:O:251:TYR:CZ	1:T:327:PRO:CA[5_555]	1.90	0.30
1:O:276:TYR:CZ	1:S:272:ARG:O[5_555]	1.90	0.30
1:O:327:PRO:C	1:S:251:TYR:OH[5_555]	1.90	0.30
1:C:327:PRO:CG	1:E:235:VAL:O[9_555]	1.91	0.29
1:C:493:GLU:CA	1:C:518:ARG:NE[7_564]	1.91	0.29
1:F:496:ASN:ND2	1:F:518:ARG:NH2[8_555]	1.91	0.29
1:G:275:LEU:CD2	1:M:275:LEU:CD2[9_555]	1.91	0.29
1:G:327:PRO:CD	1:Q:237:PRO:CD[9_555]	1.91	0.29
1:H:355:TRP:CZ3	1:T:390:PRO:CD[5_555]	1.91	0.29
1:I:251:TYR:CE1	1:I:327:PRO:N[5_555]	1.91	0.29
1:J:390:PRO:CD	1:K:355:TRP:CZ3[5_555]	1.91	0.29
1:O:251:TYR:CZ	1:T:327:PRO:N[5_555]	1.91	0.29
1:C:327:PRO:N	1:E:251:TYR:CZ[9_555]	1.92	0.28
1:C:333:THR:CB	1:E:239:GLY:O[9_555]	1.92	0.28
1:G:275:LEU:CG	1:Q:275:LEU:N[9_555]	1.92	0.28
1:H:203:HIS:CD2	1:T:203:HIS:NE2[5_555]	1.92	0.28
1:H:252:PRO:CD	1:H:328:PRO:CD[9_555]	1.92	0.28
1:I:325:LEU:CB	1:M:165:GLU:OE1[9_555]	1.92	0.28
1:K:327:PRO:C	1:P:251:TYR:CZ[9_555]	1.92	0.28
1:N:272:ARG:C	1:P:276:TYR:OH[9_555]	1.92	0.28
1:O:327:PRO:O	1:S:251:TYR:CE1[5_555]	1.92	0.28
1:C:272:ARG:N	1:J:276:TYR:OH[9_555]	1.93	0.27
1:C:480:LYS:CE	1:O:575:TYR:CD2[9_555]	1.93	0.27
1:C:494:GLY:CA	1:C:518:ARG:CG[7_564]	1.93	0.27
1:G:203:HIS:NE2	1:P:203:HIS:NE2[9_555]	1.93	0.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:327:PRO:O	1:Q:251:TYR:CE1[9_555]	1.93	0.27
1:H:165:GLU:OE2	1:T:208:TYR:CE2[5_555]	1.93	0.27
1:H:251:TYR:CZ	1:H:327:PRO:O[9_555]	1.93	0.27
1:H:517:ASN:CA	1:N:498:GLU:OE2[6_556]	1.93	0.27
1:H:519:ASP:CA	1:N:493:GLU:CD[6_556]	1.93	0.27
1:H:638:LYS:NZ	1:K:455:ASN:C[2_565]	1.93	0.27
1:I:165:GLU:OE2	1:M:208:TYR:CE2[9_555]	1.93	0.27
1:N:275:LEU:CD2	1:P:275:LEU:CG[9_555]	1.93	0.27
1:O:251:TYR:CD2	1:T:327:PRO:CB[5_555]	1.93	0.27
1:R:435:TYR:CG	1:R:519:ASP:CB[11_455]	1.93	0.27
1:C:328:PRO:CD	1:E:251:TYR:CG[9_555]	1.94	0.26
1:C:330:SER:OG	1:E:236:VAL:CB[9_555]	1.94	0.26
1:H:480:LYS:NZ	1:T:575:TYR:CA[5_555]	1.94	0.26
1:J:575:TYR:CE2	1:K:480:LYS:CE[5_555]	1.94	0.26
1:N:251:TYR:OH	1:P:327:PRO:O[9_555]	1.94	0.26
1:N:272:ARG:C	1:P:276:TYR:CD2[9_555]	1.94	0.26
1:C:496:ASN:ND2	1:C:520:VAL:CG1[7_564]	1.95	0.25
1:C:575:TYR:C	1:O:480:LYS:NZ[9_555]	1.95	0.25
1:G:251:TYR:OH	1:M:327:PRO:N[9_555]	1.95	0.25
1:G:328:PRO:CA	1:Q:251:TYR:CE1[9_555]	1.95	0.25
1:I:480:LYS:NZ	1:M:575:TYR:CD1[9_555]	1.95	0.25
1:L:496:ASN:CB	1:M:517:ASN:CG[3_555]	1.95	0.25
1:L:496:ASN:O	1:M:517:ASN:CG[3_555]	1.95	0.25
1:N:251:TYR:CD1	1:P:328:PRO:CD[9_555]	1.95	0.25
1:N:251:TYR:CD2	1:P:327:PRO:C[9_555]	1.95	0.25
1:O:251:TYR:CG	1:T:328:PRO:O[5_555]	1.95	0.25
1:O:251:TYR:CD1	1:T:328:PRO:C[5_555]	1.95	0.25
1:C:251:TYR:CG	1:J:327:PRO:C[9_555]	1.96	0.24
1:C:276:TYR:OH	1:E:272:ARG:C[9_555]	1.96	0.24
1:C:276:TYR:OH	1:E:272:ARG:CB[9_555]	1.96	0.24
1:C:494:GLY:CA	1:C:518:ARG:O[7_564]	1.96	0.24
1:C:525:VAL:CG2	1:O:578:ARG:NH1[9_555]	1.96	0.24
1:G:275:LEU:CD1	1:Q:274:THR:C[9_555]	1.96	0.24
1:G:480:LYS:CE	1:P:575:TYR:CD2[9_555]	1.96	0.24
1:I:348:LEU:CG	1:M:387:ARG:NH1[9_555]	1.96	0.24
1:J:387:ARG:CZ	1:K:348:LEU:CD2[5_555]	1.96	0.24
1:N:272:ARG:C	1:P:276:TYR:CD1[9_555]	1.96	0.24
1:O:275:LEU:CD1	1:S:274:THR:O[5_555]	1.96	0.24
1:O:276:TYR:OH	1:S:273:SER:N[5_555]	1.96	0.24
1:O:327:PRO:CD	1:S:251:TYR:OH[5_555]	1.96	0.24
1:C:251:TYR:CD1	1:J:328:PRO:CA[9_555]	1.97	0.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:251:TYR:CZ	1:J:327:PRO:CB[9_555]	1.97	0.23
1:C:327:PRO:CD	1:E:237:PRO:CD[9_555]	1.97	0.23
1:C:327:PRO:O	1:E:251:TYR:CE2[9_555]	1.97	0.23
1:F:495:ASN:ND2	1:F:518:ARG:N[8_555]	1.97	0.23
1:G:328:PRO:CD	1:Q:252:PRO:CD[9_555]	1.97	0.23
1:I:390:PRO:CD	1:M:355:TRP:CH2[9_555]	1.97	0.23
1:J:203:HIS:CD2	1:K:203:HIS:NE2[5_555]	1.97	0.23
1:N:252:PRO:CD	1:P:328:PRO:CG[9_555]	1.97	0.23
1:O:275:LEU:CG	1:S:275:LEU:CA[5_555]	1.97	0.23
1:O:327:PRO:C	1:S:251:TYR:CD1[5_555]	1.97	0.23
1:C:251:TYR:CE1	1:J:327:PRO:CA[9_555]	1.98	0.22
1:C:275:LEU:CG	1:E:275:LEU:CD2[9_555]	1.98	0.22
1:C:276:TYR:CE1	1:E:273:SER:N[9_555]	1.98	0.22
1:C:430:THR:OG1	1:C:479:LYS:NZ[7_564]	1.98	0.22
1:G:275:LEU:CG	1:Q:275:LEU:CA[9_555]	1.98	0.22
1:G:327:PRO:C	1:Q:251:TYR:CD2[9_555]	1.98	0.22
1:G:328:PRO:CA	1:Q:251:TYR:CG[9_555]	1.98	0.22
1:G:575:TYR:O	1:P:480:LYS:CE[9_555]	1.98	0.22
1:H:165:GLU:CG	1:T:325:LEU:CD2[5_555]	1.98	0.22
1:H:251:TYR:CE1	1:H:327:PRO:N[9_555]	1.98	0.22
1:H:517:ASN:C	1:N:498:GLU:OE1[6_556]	1.98	0.22
1:J:165:GLU:OE2	1:K:208:TYR:CE2[5_555]	1.98	0.22
1:N:251:TYR:CZ	1:P:327:PRO:N[9_555]	1.98	0.22
1:O:251:TYR:CZ	1:T:327:PRO:CB[5_555]	1.98	0.22
1:O:275:LEU:CG	1:S:275:LEU:N[5_555]	1.98	0.22
1:O:328:PRO:CA	1:S:251:TYR:CG[5_555]	1.98	0.22
1:O:328:PRO:CD	1:S:252:PRO:CD[5_555]	1.98	0.22
1:C:276:TYR:CD2	1:E:272:ARG:C[9_555]	1.99	0.21
1:C:493:GLU:OE1	1:C:518:ARG:NH1[7_564]	1.99	0.21
1:G:251:TYR:CA	1:M:328:PRO:O[9_555]	1.99	0.21
1:G:276:TYR:CZ	1:Q:272:ARG:O[9_555]	1.99	0.21
1:H:390:PRO:CG	1:T:355:TRP:CH2[5_555]	1.99	0.21
1:I:480:LYS:NZ	1:M:575:TYR:CA[9_555]	1.99	0.21
1:J:355:TRP:CZ3	1:K:390:PRO:CD[5_555]	1.99	0.21
1:O:328:PRO:CG	1:S:251:TYR:CD1[5_555]	1.99	0.21
1:C:203:HIS:NE2	1:O:203:HIS:NE2[9_555]	2.00	0.20
1:C:274:THR:O	1:J:275:LEU:CD1[9_555]	2.00	0.20
1:C:575:TYR:CE2	1:O:480:LYS:CE[9_555]	2.00	0.20
1:G:251:TYR:CD2	1:M:327:PRO:CB[9_555]	2.00	0.20
1:G:251:TYR:CG	1:M:328:PRO:O[9_555]	2.00	0.20
1:G:251:TYR:CD1	1:M:328:PRO:C[9_555]	2.00	0.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:328:PRO:CG	1:Q:251:TYR:CD1[9_555]	2.00	0.20
1:H:251:TYR:CZ	1:H:327:PRO:C[9_555]	2.00	0.20
1:H:348:LEU:CG	1:T:387:ARG:NH1[5_555]	2.00	0.20
1:I:200:TYR:OH	1:M:328:PRO:CG[9_555]	2.00	0.20
1:I:252:PRO:CD	1:I:328:PRO:CD[5_555]	2.00	0.20
1:I:480:LYS:NZ	1:M:575:TYR:CB[9_555]	2.00	0.20
1:J:480:LYS:CE	1:K:575:TYR:CE2[5_555]	2.00	0.20
1:N:272:ARG:CB	1:P:276:TYR:CE1[9_555]	2.00	0.20
1:O:276:TYR:OH	1:S:272:ARG:C[5_555]	2.00	0.20
1:O:328:PRO:O	1:S:251:TYR:CG[5_555]	2.00	0.20
1:C:428:LYS:O	1:C:478:ASP:CG[7_564]	2.01	0.19
1:C:494:GLY:O	1:C:518:ARG:CA[7_564]	2.01	0.19
1:C:575:TYR:CD2	1:O:480:LYS:CE[9_555]	2.01	0.19
1:G:578:ARG:NH1	1:P:525:VAL:CB[9_555]	2.01	0.19
1:I:390:PRO:CD	1:M:355:TRP:CZ3[9_555]	2.01	0.19
1:L:494:GLY:N	1:M:518:ARG:CA[3_555]	2.01	0.19
1:O:328:PRO:C	1:S:251:TYR:CD1[5_555]	2.01	0.19
1:C:208:TYR:CZ	1:O:165:GLU:OE2[9_555]	2.02	0.18
1:C:276:TYR:OH	1:E:273:SER:N[9_555]	2.02	0.18
1:C:327:PRO:O	1:E:251:TYR:OH[9_555]	2.02	0.18
1:C:428:LYS:C	1:C:478:ASP:OD2[7_564]	2.02	0.18
1:C:494:GLY:N	1:C:518:ARG:O[7_564]	2.02	0.18
1:C:495:ASN:CG	1:C:516:VAL:CA[7_564]	2.02	0.18
1:F:495:ASN:N	1:F:518:ARG:CB[8_555]	2.02	0.18
1:G:328:PRO:O	1:Q:251:TYR:CB[9_555]	2.02	0.18
1:H:251:TYR:CG	1:H:327:PRO:C[9_555]	2.02	0.18
1:L:493:GLU:N	1:M:518:ARG:CA[3_555]	2.02	0.18
1:N:251:TYR:CD2	1:P:328:PRO:N[9_555]	2.02	0.18
1:O:251:TYR:CD1	1:T:328:PRO:CA[5_555]	2.02	0.18
1:O:328:PRO:O	1:S:251:TYR:CB[5_555]	2.02	0.18
1:C:251:TYR:CG	1:J:328:PRO:O[9_555]	2.03	0.17
1:C:276:TYR:CE1	1:E:272:ARG:CB[9_555]	2.03	0.17
1:C:327:PRO:C	1:E:251:TYR:CD1[9_555]	2.03	0.17
1:C:327:PRO:CD	1:E:251:TYR:OH[9_555]	2.03	0.17
1:C:494:GLY:C	1:C:518:ARG:N[7_564]	2.03	0.17
1:G:251:TYR:CZ	1:M:327:PRO:N[9_555]	2.03	0.17
1:H:203:HIS:CE1	1:T:203:HIS:NE2[5_555]	2.03	0.17
1:H:517:ASN:OD1	1:N:428:LYS:CE[6_556]	2.03	0.17
1:I:480:LYS:CD	1:M:575:TYR:CE1[9_555]	2.03	0.17
1:J:480:LYS:CE	1:K:575:TYR:CZ[5_555]	2.03	0.17
1:O:276:TYR:CE2	1:S:273:SER:CA[5_555]	2.03	0.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:251:TYR:CD1	1:J:328:PRO:C[9_555]	2.04	0.16
1:C:327:PRO:C	1:E:251:TYR:CD2[9_555]	2.04	0.16
1:G:480:LYS:NZ	1:P:575:TYR:C[9_555]	2.04	0.16
1:G:575:TYR:CE2	1:P:480:LYS:CE[9_555]	2.04	0.16
1:H:480:LYS:CE	1:T:575:TYR:CD2[5_555]	2.04	0.16
1:I:275:LEU:CD2	1:I:275:LEU:CD2[5_555]	2.04	0.16
1:I:348:LEU:CD2	1:M:387:ARG:NH1[9_555]	2.04	0.16
1:J:387:ARG:NH1	1:K:348:LEU:CG[5_555]	2.04	0.16
1:N:251:TYR:CG	1:P:328:PRO:CD[9_555]	2.04	0.16
1:O:276:TYR:CD2	1:S:273:SER:CA[5_555]	2.04	0.16
1:O:324:LEU:CD2	1:S:271:LEU:CD1[5_555]	2.04	0.16
1:C:275:LEU:CG	1:E:275:LEU:N[9_555]	2.05	0.15
1:C:480:LYS:CE	1:O:575:TYR:CE2[9_555]	2.05	0.15
1:C:525:VAL:CG2	1:O:578:ARG:CZ[9_555]	2.05	0.15
1:E:399:GLY:O	1:E:435:TYR:CZ[6_456]	2.05	0.15
1:F:495:ASN:N	1:F:518:ARG:CG[8_555]	2.05	0.15
1:G:333:THR:CB	1:Q:239:GLY:O[9_555]	2.05	0.15
1:I:251:TYR:CG	1:I:327:PRO:C[5_555]	2.05	0.15
1:J:575:TYR:CD2	1:K:480:LYS:NZ[5_555]	2.05	0.15
1:K:328:PRO:CA	1:P:251:TYR:CD1[9_555]	2.05	0.15
1:L:496:ASN:N	1:M:517:ASN:ND2[3_555]	2.05	0.15
1:N:251:TYR:CD1	1:P:327:PRO:C[9_555]	2.05	0.15
1:C:495:ASN:ND2	1:C:517:ASN:N[7_564]	2.06	0.14
1:G:251:TYR:CZ	1:M:327:PRO:CB[9_555]	2.06	0.14
1:G:251:TYR:CZ	1:M:327:PRO:C[9_555]	2.06	0.14
1:G:276:TYR:CE1	1:Q:272:ARG:CB[9_555]	2.06	0.14
1:J:575:TYR:CE1	1:K:480:LYS:CD[5_555]	2.06	0.14
1:N:275:LEU:N	1:P:275:LEU:CD1[9_555]	2.06	0.14
1:O:276:TYR:CE2	1:S:272:ARG:O[5_555]	2.06	0.14
1:O:327:PRO:CG	1:S:235:VAL:O[5_555]	2.06	0.14
1:O:333:THR:CB	1:S:239:GLY:O[5_555]	2.06	0.14
1:R:435:TYR:CD2	1:R:519:ASP:CA[11_455]	2.06	0.14
1:A:478:ASP:OD2	1:E:518:ARG:NH1[12_565]	2.07	0.13
1:C:276:TYR:CE2	1:E:273:SER:CA[9_555]	2.07	0.13
1:C:460:ASN:ND2	1:O:435:TYR:OH[2_564]	2.07	0.13
1:C:495:ASN:CB	1:C:516:VAL:O[7_564]	2.07	0.13
1:G:251:TYR:CZ	1:M:327:PRO:CA[9_555]	2.07	0.13
1:G:276:TYR:OH	1:Q:273:SER:N[9_555]	2.07	0.13
1:H:200:TYR:OH	1:T:328:PRO:CG[5_555]	2.07	0.13
1:H:517:ASN:OD1	1:N:498:GLU:CD[6_556]	2.07	0.13
1:I:203:HIS:CE1	1:M:203:HIS:NE2[9_555]	2.07	0.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:251:TYR:CZ	1:I:327:PRO:O[5_555]	2.07	0.13
1:I:251:TYR:CD1	1:I:327:PRO:CA[5_555]	2.07	0.13
1:I:480:LYS:CE	1:M:575:TYR:CD2[9_555]	2.07	0.13
1:I:575:TYR:CE1	1:M:480:LYS:CD[9_555]	2.07	0.13
1:J:203:HIS:CE1	1:K:203:HIS:CE1[5_555]	2.07	0.13
1:K:276:TYR:OH	1:P:272:ARG:N[9_555]	2.07	0.13
1:K:327:PRO:CA	1:P:251:TYR:CE2[9_555]	2.07	0.13
1:N:235:VAL:O	1:P:327:PRO:CD[9_555]	2.07	0.13
1:O:275:LEU:CD1	1:S:274:THR:C[5_555]	2.07	0.13
1:A:452:ASP:O	1:I:519:ASP:OD1[10_555]	2.08	0.12
1:C:328:PRO:C	1:E:251:TYR:CG[9_555]	2.08	0.12
1:C:328:PRO:CG	1:E:251:TYR:CD1[9_555]	2.08	0.12
1:C:430:THR:CB	1:C:479:LYS:CE[7_564]	2.08	0.12
1:C:495:ASN:N	1:C:518:ARG:CB[7_564]	2.08	0.12
1:G:327:PRO:C	1:Q:251:TYR:OH[9_555]	2.08	0.12
1:H:638:LYS:CG	1:K:455:ASN:OD1[2_565]	2.08	0.12
1:I:250:GLN:O	1:I:328:PRO:CB[5_555]	2.08	0.12
1:I:251:TYR:CD2	1:I:327:PRO:CG[5_555]	2.08	0.12
1:J:208:TYR:OH	1:K:163:ASP:O[5_555]	2.08	0.12
1:N:251:TYR:CE2	1:P:328:PRO:N[9_555]	2.08	0.12
1:O:251:TYR:CE1	1:T:327:PRO:CA[5_555]	2.08	0.12
1:O:327:PRO:C	1:S:251:TYR:CD2[5_555]	2.08	0.12
1:O:330:SER:OG	1:S:236:VAL:CB[5_555]	2.08	0.12
1:R:399:GLY:CA	1:R:435:TYR:CE2[8_555]	2.08	0.12
1:R:435:TYR:CB	1:R:519:ASP:CB[11_455]	2.08	0.12
1:A:449:ARG:NH1	1:I:518:ARG:CA[10_555]	2.09	0.11
1:A:453:SER:OG	1:I:398:LYS:O[10_555]	2.09	0.11
1:C:272:ARG:CA	1:J:276:TYR:CZ[9_555]	2.09	0.11
1:C:275:LEU:CG	1:E:275:LEU:CG[9_555]	2.09	0.11
1:C:276:TYR:CD2	1:E:273:SER:CA[9_555]	2.09	0.11
1:C:328:PRO:N	1:E:251:TYR:CD2[9_555]	2.09	0.11
1:H:348:LEU:CD2	1:T:387:ARG:NH1[5_555]	2.09	0.11
1:H:480:LYS:NZ	1:T:575:TYR:CB[5_555]	2.09	0.11
1:J:480:LYS:CD	1:K:575:TYR:CE1[5_555]	2.09	0.11
1:K:327:PRO:N	1:P:251:TYR:CE1[9_555]	2.09	0.11
1:O:276:TYR:CE1	1:S:272:ARG:CB[5_555]	2.09	0.11
1:C:271:LEU:CB	1:J:324:LEU:CD1[9_555]	2.10	0.10
1:G:275:LEU:CG	1:Q:274:THR:C[9_555]	2.10	0.10
1:G:276:TYR:OH	1:Q:272:ARG:C[9_555]	2.10	0.10
1:G:328:PRO:N	1:Q:251:TYR:CD2[9_555]	2.10	0.10
1:H:517:ASN:CA	1:N:498:GLU:OE1[6_556]	2.10	0.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:518:ARG:O	1:N:493:GLU:OE1[6_556]	2.10	0.10
1:I:355:TRP:CH2	1:M:390:PRO:CD[9_555]	2.10	0.10
1:J:355:TRP:CH2	1:K:390:PRO:CD[5_555]	2.10	0.10
1:L:493:GLU:CB	1:M:518:ARG:N[3_555]	2.10	0.10
1:N:251:TYR:OH	1:P:327:PRO:CD[9_555]	2.10	0.10
1:N:273:SER:N	1:P:276:TYR:OH[9_555]	2.10	0.10
1:O:275:LEU:CG	1:S:275:LEU:CD2[5_555]	2.10	0.10
1:O:276:TYR:CD2	1:S:272:ARG:C[5_555]	2.10	0.10
1:C:275:LEU:CD1	1:E:274:THR:O[9_555]	2.11	0.09
1:G:276:TYR:CD2	1:Q:273:SER:CA[9_555]	2.11	0.09
1:H:480:LYS:CE	1:T:575:TYR:CE2[5_555]	2.11	0.09
1:L:493:GLU:O	1:M:517:ASN:O[3_555]	2.11	0.09
1:L:497:LEU:N	1:M:517:ASN:OD1[3_555]	2.11	0.09
1:N:237:PRO:CG	1:P:326:LYS:CG[9_555]	2.11	0.09
1:N:273:SER:O	1:P:276:TYR:O[9_555]	2.11	0.09
1:O:328:PRO:CD	1:S:251:TYR:CE1[5_555]	2.11	0.09
1:C:275:LEU:CD1	1:E:275:LEU:C[9_555]	2.12	0.08
1:C:326:LYS:CG	1:E:237:PRO:CG[9_555]	2.12	0.08
1:C:480:LYS:CE	1:O:575:TYR:O[9_555]	2.12	0.08
1:G:328:PRO:O	1:Q:251:TYR:CG[9_555]	2.12	0.08
1:H:250:GLN:O	1:H:328:PRO:CB[9_555]	2.12	0.08
1:H:390:PRO:CD	1:T:355:TRP:CZ3[5_555]	2.12	0.08
1:I:165:GLU:OE1	1:M:325:LEU:CA[9_555]	2.12	0.08
1:I:480:LYS:CE	1:M:575:TYR:CE2[9_555]	2.12	0.08
1:J:348:LEU:CD2	1:K:387:ARG:CZ[5_555]	2.12	0.08
1:J:480:LYS:NZ	1:K:575:TYR:CD2[5_555]	2.12	0.08
1:K:328:PRO:CB	1:P:250:GLN:O[9_555]	2.12	0.08
1:N:237:PRO:CD	1:P:327:PRO:CD[9_555]	2.12	0.08
1:O:251:TYR:CA	1:T:328:PRO:O[5_555]	2.12	0.08
1:O:328:PRO:N	1:S:251:TYR:CD2[5_555]	2.12	0.08
1:R:435:TYR:OH	1:R:520:VAL:O[11_455]	2.12	0.08
1:C:251:TYR:CE1	1:J:328:PRO:N[9_555]	2.13	0.07
1:C:251:TYR:CE2	1:J:327:PRO:CA[9_555]	2.13	0.07
1:C:324:LEU:CD2	1:E:271:LEU:CD1[9_555]	2.13	0.07
1:C:328:PRO:N	1:E:251:TYR:CE2[9_555]	2.13	0.07
1:C:495:ASN:CB	1:C:516:VAL:CG2[7_564]	2.13	0.07
1:G:276:TYR:CD2	1:Q:272:ARG:C[9_555]	2.13	0.07
1:H:273:SER:N	1:H:276:TYR:OH[9_555]	2.13	0.07
1:J:357:ASP:OD1	1:K:389:ARG:CZ[5_555]	2.13	0.07
1:K:327:PRO:CD	1:P:251:TYR:CE2[9_555]	2.13	0.07
1:N:275:LEU:CG	1:P:275:LEU:CG[9_555]	2.13	0.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:327:PRO:O	1:S:251:TYR:CE2[5_555]	2.13	0.07
1:C:328:PRO:CG	1:E:252:PRO:CD[9_555]	2.14	0.06
1:C:430:THR:OG1	1:C:479:LYS:CG[7_564]	2.14	0.06
1:C:454:ALA:C	1:O:462:ASN:OD1[2_564]	2.14	0.06
1:C:578:ARG:NH1	1:O:525:VAL:CG2[9_555]	2.14	0.06
1:G:328:PRO:C	1:Q:251:TYR:CD1[9_555]	2.14	0.06
1:G:330:SER:OG	1:Q:236:VAL:CB[9_555]	2.14	0.06
1:H:251:TYR:CD1	1:H:327:PRO:CA[9_555]	2.14	0.06
1:H:390:PRO:CD	1:T:355:TRP:CH2[5_555]	2.14	0.06
1:H:480:LYS:NZ	1:T:575:TYR:CD1[5_555]	2.14	0.06
1:K:276:TYR:CZ	1:P:272:ARG:CA[9_555]	2.14	0.06
1:N:236:VAL:CG1	1:P:330:SER:OG[9_555]	2.14	0.06
1:N:272:ARG:CB	1:P:276:TYR:CZ[9_555]	2.14	0.06
1:N:275:LEU:C	1:P:275:LEU:CD1[9_555]	2.14	0.06
1:O:251:TYR:CG	1:T:327:PRO:C[5_555]	2.14	0.06
1:O:271:LEU:CB	1:T:324:LEU:CD1[5_555]	2.14	0.06
1:C:495:ASN:N	1:C:518:ARG:N[7_564]	2.15	0.05
1:G:272:ARG:O	1:M:276:TYR:OH[9_555]	2.15	0.05
1:G:327:PRO:O	1:Q:251:TYR:CE2[9_555]	2.15	0.05
1:H:251:TYR:CE1	1:H:328:PRO:N[9_555]	2.15	0.05
1:H:251:TYR:CE2	1:H:327:PRO:CA[9_555]	2.15	0.05
1:J:390:PRO:CD	1:K:355:TRP:CH2[5_555]	2.15	0.05
1:K:327:PRO:CG	1:P:251:TYR:CD2[9_555]	2.15	0.05
1:K:328:PRO:N	1:P:251:TYR:CE1[9_555]	2.15	0.05
1:N:273:SER:N	1:P:276:TYR:CE1[9_555]	2.15	0.05
1:N:275:LEU:N	1:P:275:LEU:CG[9_555]	2.15	0.05
1:O:251:TYR:CD1	1:T:328:PRO:O[5_555]	2.15	0.05
1:O:275:LEU:CG	1:S:275:LEU:CG[5_555]	2.15	0.05
1:O:276:TYR:OH	1:S:272:ARG:CB[5_555]	2.15	0.05
1:C:165:GLU:OE2	1:O:208:TYR:CZ[9_555]	2.16	0.04
1:C:525:VAL:CB	1:O:578:ARG:NH1[9_555]	2.16	0.04
1:G:275:LEU:CB	1:Q:274:THR:O[9_555]	2.16	0.04
1:H:203:HIS:NE2	1:T:203:HIS:CD2[5_555]	2.16	0.04
1:I:203:HIS:NE2	1:M:203:HIS:CD2[9_555]	2.16	0.04
1:I:251:TYR:CE2	1:I:327:PRO:CD[5_555]	2.16	0.04
1:N:271:LEU:CD1	1:P:324:LEU:CD2[9_555]	2.16	0.04
1:O:272:ARG:CA	1:T:276:TYR:CZ[5_555]	2.16	0.04
1:O:327:PRO:O	1:S:251:TYR:OH[5_555]	2.16	0.04
1:C:276:TYR:CD2	1:E:273:SER:N[9_555]	2.17	0.03
1:C:327:PRO:CD	1:E:235:VAL:O[9_555]	2.17	0.03
1:C:494:GLY:O	1:C:518:ARG:CG[7_564]	2.17	0.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:495:ASN:OD1	1:C:517:ASN:C[7_564]	2.17	0.03
1:C:495:ASN:C	1:C:516:VAL:CG1[7_564]	2.17	0.03
1:F:495:ASN:N	1:F:518:ARG:CD[8_555]	2.17	0.03
1:G:251:TYR:CD1	1:M:328:PRO:O[9_555]	2.17	0.03
1:G:251:TYR:CE1	1:M:327:PRO:CA[9_555]	2.17	0.03
1:G:251:TYR:CD1	1:M:328:PRO:CA[9_555]	2.17	0.03
1:G:276:TYR:CE2	1:Q:273:SER:CA[9_555]	2.17	0.03
1:G:328:PRO:CD	1:Q:251:TYR:CE1[9_555]	2.17	0.03
1:H:273:SER:N	1:H:276:TYR:CZ[9_555]	2.17	0.03
1:J:325:LEU:CD2	1:K:165:GLU:CG[5_555]	2.17	0.03
1:O:251:TYR:CE1	1:T:328:PRO:N[5_555]	2.17	0.03
1:A:452:ASP:O	1:I:519:ASP:CB[10_555]	2.18	0.02
1:C:251:TYR:CA	1:J:328:PRO:O[9_555]	2.18	0.02
1:C:578:ARG:CZ	1:O:525:VAL:CG2[9_555]	2.18	0.02
1:G:276:TYR:CG	1:Q:272:ARG:C[9_555]	2.18	0.02
1:G:326:LYS:O	1:Q:251:TYR:OH[9_555]	2.18	0.02
1:G:327:PRO:CG	1:Q:251:TYR:CE2[9_555]	2.18	0.02
1:G:327:PRO:C	1:Q:251:TYR:CG[9_555]	2.18	0.02
1:G:525:VAL:CG2	1:P:578:ARG:CZ[9_555]	2.18	0.02
1:I:208:TYR:OH	1:M:166:TRP:CZ3[9_555]	2.18	0.02
1:I:480:LYS:NZ	1:M:575:TYR:CD2[9_555]	2.18	0.02
1:J:575:TYR:CD1	1:K:480:LYS:NZ[5_555]	2.18	0.02
1:N:273:SER:CA	1:P:276:TYR:CE2[9_555]	2.18	0.02
1:O:272:ARG:O	1:T:276:TYR:CE2[5_555]	2.18	0.02
1:O:273:SER:N	1:T:276:TYR:OH[5_555]	2.18	0.02
1:O:274:THR:O	1:T:275:LEU:CD1[5_555]	2.18	0.02
1:O:275:LEU:CD1	1:S:275:LEU:C[5_555]	2.18	0.02
1:O:326:LYS:CG	1:S:237:PRO:CG[5_555]	2.18	0.02
1:C:276:TYR:O	1:E:273:SER:O[9_555]	2.19	0.01
1:C:398:LYS:CE	1:C:517:ASN:CG[7_564]	2.19	0.01
1:G:208:TYR:CZ	1:P:165:GLU:OE2[9_555]	2.19	0.01
1:G:275:LEU:CD1	1:Q:275:LEU:C[9_555]	2.19	0.01
1:G:276:TYR:CE2	1:Q:272:ARG:O[9_555]	2.19	0.01
1:G:327:PRO:CG	1:Q:235:VAL:O[9_555]	2.19	0.01
1:H:208:TYR:CE2	1:T:165:GLU:OE2[5_555]	2.19	0.01
1:H:251:TYR:CD1	1:H:328:PRO:CA[9_555]	2.19	0.01
1:H:251:TYR:CD2	1:H:327:PRO:CG[9_555]	2.19	0.01
1:H:638:LYS:CE	1:K:455:ASN:CG[2_565]	2.19	0.01
1:I:251:TYR:CZ	1:I:327:PRO:C[5_555]	2.19	0.01
1:I:389:ARG:CZ	1:M:357:ASP:OD1[9_555]	2.19	0.01
1:K:324:LEU:CD1	1:P:271:LEU:CB[9_555]	2.19	0.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:328:PRO:O	1:P:251:TYR:CG[9_555]	2.19	0.01
1:N:251:TYR:CG	1:P:328:PRO:CB[9_555]	2.19	0.01
1:N:273:SER:O	1:P:274:THR:OG1[9_555]	2.19	0.01
1:O:276:TYR:CD2	1:S:273:SER:N[5_555]	2.19	0.01

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	498/545 (91%)	316 (64%)	115 (23%)	67 (14%)	0	4
1	B	498/545 (91%)	317 (64%)	114 (23%)	67 (14%)	0	4
1	C	498/545 (91%)	318 (64%)	113 (23%)	67 (14%)	0	4
1	D	498/545 (91%)	316 (64%)	115 (23%)	67 (14%)	0	4
1	E	498/545 (91%)	317 (64%)	114 (23%)	67 (14%)	0	4
1	F	498/545 (91%)	317 (64%)	114 (23%)	67 (14%)	0	4
1	G	498/545 (91%)	317 (64%)	114 (23%)	67 (14%)	0	4
1	H	498/545 (91%)	318 (64%)	113 (23%)	67 (14%)	0	4
1	I	498/545 (91%)	316 (64%)	115 (23%)	67 (14%)	0	4
1	J	498/545 (91%)	317 (64%)	114 (23%)	67 (14%)	0	4
1	K	498/545 (91%)	318 (64%)	113 (23%)	67 (14%)	0	4
1	L	498/545 (91%)	316 (64%)	115 (23%)	67 (14%)	0	4
1	M	498/545 (91%)	316 (64%)	115 (23%)	67 (14%)	0	4
1	N	498/545 (91%)	318 (64%)	113 (23%)	67 (14%)	0	4
1	O	498/545 (91%)	317 (64%)	114 (23%)	67 (14%)	0	4
1	P	498/545 (91%)	318 (64%)	113 (23%)	67 (14%)	0	4
1	Q	498/545 (91%)	317 (64%)	114 (23%)	67 (14%)	0	4
1	R	498/545 (91%)	317 (64%)	114 (23%)	67 (14%)	0	4

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	S	498/545 (91%)	318 (64%)	113 (23%)	67 (14%)	0 4
1	T	498/545 (91%)	317 (64%)	114 (23%)	67 (14%)	0 4
All	All	9960/10900 (91%)	6341 (64%)	2279 (23%)	1340 (14%)	0 4

All (1340) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	294	ASP
1	A	300	ALA
1	A	301	ASN
1	A	303	ALA
1	A	305	SER
1	A	340	ASP
1	A	345	SER
1	A	347	SER
1	A	350	ILE
1	A	421	PRO
1	A	434	ASP
1	A	438	THR
1	A	439	THR
1	A	448	PRO
1	A	449	ARG
1	A	474	ARG
1	A	481	ILE
1	A	482	SER
1	A	523	SER
1	A	524	ASP
1	A	534	GLY
1	A	576	VAL
1	A	580	ILE
1	A	583	PHE
1	B	294	ASP
1	B	300	ALA
1	B	301	ASN
1	B	303	ALA
1	B	305	SER
1	B	340	ASP
1	B	345	SER
1	B	347	SER
1	B	350	ILE
1	B	421	PRO

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Mol	Chain	Res	Type
1	B	434	ASP
1	B	438	THR
1	B	439	THR
1	B	448	PRO
1	B	449	ARG
1	B	474	ARG
1	B	481	ILE
1	B	482	SER
1	B	523	SER
1	B	524	ASP
1	B	534	GLY
1	B	576	VAL
1	B	580	ILE
1	B	583	PHE
1	C	294	ASP
1	C	300	ALA
1	C	301	ASN
1	C	303	ALA
1	C	305	SER
1	C	340	ASP
1	C	345	SER
1	C	347	SER
1	C	350	ILE
1	C	421	PRO
1	C	434	ASP
1	C	438	THR
1	C	439	THR
1	C	448	PRO
1	C	449	ARG
1	C	474	ARG
1	C	481	ILE
1	C	482	SER
1	C	523	SER
1	C	524	ASP
1	C	534	GLY
1	C	576	VAL
1	C	580	ILE
1	C	583	PHE
1	D	294	ASP
1	D	300	ALA
1	D	301	ASN
1	D	303	ALA

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Mol	Chain	Res	Type
1	D	305	SER
1	D	340	ASP
1	D	345	SER
1	D	347	SER
1	D	350	ILE
1	D	421	PRO
1	D	434	ASP
1	D	438	THR
1	D	439	THR
1	D	448	PRO
1	D	449	ARG
1	D	474	ARG
1	D	481	ILE
1	D	482	SER
1	D	523	SER
1	D	524	ASP
1	D	534	GLY
1	D	576	VAL
1	D	580	ILE
1	D	583	PHE
1	E	294	ASP
1	E	300	ALA
1	E	301	ASN
1	E	303	ALA
1	E	305	SER
1	E	340	ASP
1	E	345	SER
1	E	347	SER
1	E	350	ILE
1	E	421	PRO
1	E	434	ASP
1	E	438	THR
1	E	439	THR
1	E	448	PRO
1	E	449	ARG
1	E	474	ARG
1	E	481	ILE
1	E	482	SER
1	E	523	SER
1	E	524	ASP
1	E	534	GLY
1	E	576	VAL

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Mol	Chain	Res	Type
1	E	580	ILE
1	E	583	PHE
1	F	294	ASP
1	F	300	ALA
1	F	301	ASN
1	F	303	ALA
1	F	305	SER
1	F	340	ASP
1	F	345	SER
1	F	347	SER
1	F	350	ILE
1	F	421	PRO
1	F	434	ASP
1	F	438	THR
1	F	439	THR
1	F	448	PRO
1	F	449	ARG
1	F	474	ARG
1	F	481	ILE
1	F	482	SER
1	F	523	SER
1	F	524	ASP
1	F	534	GLY
1	F	576	VAL
1	F	580	ILE
1	F	583	PHE
1	G	294	ASP
1	G	300	ALA
1	G	301	ASN
1	G	303	ALA
1	G	305	SER
1	G	340	ASP
1	G	345	SER
1	G	347	SER
1	G	350	ILE
1	G	421	PRO
1	G	434	ASP
1	G	438	THR
1	G	439	THR
1	G	448	PRO
1	G	449	ARG
1	G	474	ARG

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Mol	Chain	Res	Type
1	G	481	ILE
1	G	482	SER
1	G	523	SER
1	G	524	ASP
1	G	534	GLY
1	G	576	VAL
1	G	580	ILE
1	G	583	PHE
1	H	294	ASP
1	H	300	ALA
1	H	301	ASN
1	H	303	ALA
1	H	305	SER
1	H	340	ASP
1	H	345	SER
1	H	347	SER
1	H	350	ILE
1	H	421	PRO
1	H	434	ASP
1	H	438	THR
1	H	439	THR
1	H	448	PRO
1	H	449	ARG
1	H	474	ARG
1	H	481	ILE
1	H	482	SER
1	H	523	SER
1	H	524	ASP
1	H	534	GLY
1	H	576	VAL
1	H	580	ILE
1	H	583	PHE
1	I	294	ASP
1	I	300	ALA
1	I	301	ASN
1	I	303	ALA
1	I	305	SER
1	I	340	ASP
1	I	345	SER
1	I	347	SER
1	I	350	ILE
1	I	421	PRO

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Mol	Chain	Res	Type
1	I	434	ASP
1	I	438	THR
1	I	439	THR
1	I	448	PRO
1	I	449	ARG
1	I	474	ARG
1	I	481	ILE
1	I	482	SER
1	I	523	SER
1	I	524	ASP
1	I	534	GLY
1	I	576	VAL
1	I	580	ILE
1	I	583	PHE
1	J	294	ASP
1	J	300	ALA
1	J	301	ASN
1	J	303	ALA
1	J	305	SER
1	J	340	ASP
1	J	345	SER
1	J	347	SER
1	J	350	ILE
1	J	421	PRO
1	J	434	ASP
1	J	438	THR
1	J	439	THR
1	J	448	PRO
1	J	449	ARG
1	J	474	ARG
1	J	481	ILE
1	J	482	SER
1	J	523	SER
1	J	524	ASP
1	J	534	GLY
1	J	576	VAL
1	J	580	ILE
1	J	583	PHE
1	K	294	ASP
1	K	300	ALA
1	K	301	ASN
1	K	303	ALA

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Mol	Chain	Res	Type
1	K	305	SER
1	K	340	ASP
1	K	345	SER
1	K	347	SER
1	K	350	ILE
1	K	421	PRO
1	K	434	ASP
1	K	438	THR
1	K	439	THR
1	K	448	PRO
1	K	449	ARG
1	K	474	ARG
1	K	481	ILE
1	K	482	SER
1	K	523	SER
1	K	524	ASP
1	K	534	GLY
1	K	576	VAL
1	K	580	ILE
1	K	583	PHE
1	L	294	ASP
1	L	300	ALA
1	L	301	ASN
1	L	303	ALA
1	L	305	SER
1	L	340	ASP
1	L	345	SER
1	L	347	SER
1	L	350	ILE
1	L	421	PRO
1	L	434	ASP
1	L	438	THR
1	L	439	THR
1	L	448	PRO
1	L	449	ARG
1	L	474	ARG
1	L	481	ILE
1	L	482	SER
1	L	523	SER
1	L	524	ASP
1	L	534	GLY
1	L	576	VAL

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Mol	Chain	Res	Type
1	L	580	ILE
1	L	583	PHE
1	M	294	ASP
1	M	300	ALA
1	M	301	ASN
1	M	303	ALA
1	M	305	SER
1	M	340	ASP
1	M	345	SER
1	M	347	SER
1	M	350	ILE
1	M	421	PRO
1	M	434	ASP
1	M	438	THR
1	M	439	THR
1	M	448	PRO
1	M	449	ARG
1	M	474	ARG
1	M	481	ILE
1	M	482	SER
1	M	523	SER
1	M	524	ASP
1	M	534	GLY
1	M	576	VAL
1	M	580	ILE
1	M	583	PHE
1	N	294	ASP
1	N	300	ALA
1	N	301	ASN
1	N	303	ALA
1	N	305	SER
1	N	340	ASP
1	N	345	SER
1	N	347	SER
1	N	350	ILE
1	N	421	PRO
1	N	434	ASP
1	N	438	THR
1	N	439	THR
1	N	448	PRO
1	N	449	ARG
1	N	474	ARG

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Mol	Chain	Res	Type
1	N	481	ILE
1	N	482	SER
1	N	523	SER
1	N	524	ASP
1	N	534	GLY
1	N	576	VAL
1	N	580	ILE
1	N	583	PHE
1	O	294	ASP
1	O	300	ALA
1	O	301	ASN
1	O	303	ALA
1	O	305	SER
1	O	340	ASP
1	O	345	SER
1	O	347	SER
1	O	350	ILE
1	O	421	PRO
1	O	434	ASP
1	O	438	THR
1	O	439	THR
1	O	448	PRO
1	O	449	ARG
1	O	474	ARG
1	O	481	ILE
1	O	482	SER
1	O	523	SER
1	O	524	ASP
1	O	534	GLY
1	O	576	VAL
1	O	580	ILE
1	O	583	PHE
1	P	294	ASP
1	P	300	ALA
1	P	301	ASN
1	P	303	ALA
1	P	305	SER
1	P	340	ASP
1	P	345	SER
1	P	347	SER
1	P	350	ILE
1	P	421	PRO

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Mol	Chain	Res	Type
1	P	434	ASP
1	P	438	THR
1	P	439	THR
1	P	448	PRO
1	P	449	ARG
1	P	474	ARG
1	P	481	ILE
1	P	482	SER
1	P	523	SER
1	P	524	ASP
1	P	534	GLY
1	P	576	VAL
1	P	580	ILE
1	P	583	PHE
1	Q	294	ASP
1	Q	300	ALA
1	Q	301	ASN
1	Q	303	ALA
1	Q	305	SER
1	Q	340	ASP
1	Q	345	SER
1	Q	347	SER
1	Q	350	ILE
1	Q	421	PRO
1	Q	434	ASP
1	Q	438	THR
1	Q	439	THR
1	Q	448	PRO
1	Q	449	ARG
1	Q	474	ARG
1	Q	481	ILE
1	Q	482	SER
1	Q	523	SER
1	Q	524	ASP
1	Q	534	GLY
1	Q	576	VAL
1	Q	580	ILE
1	Q	583	PHE
1	R	294	ASP
1	R	300	ALA
1	R	301	ASN
1	R	303	ALA

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Mol	Chain	Res	Type
1	R	305	SER
1	R	340	ASP
1	R	345	SER
1	R	347	SER
1	R	350	ILE
1	R	421	PRO
1	R	434	ASP
1	R	438	THR
1	R	439	THR
1	R	448	PRO
1	R	449	ARG
1	R	474	ARG
1	R	481	ILE
1	R	482	SER
1	R	523	SER
1	R	524	ASP
1	R	534	GLY
1	R	576	VAL
1	R	580	ILE
1	R	583	PHE
1	S	294	ASP
1	S	300	ALA
1	S	301	ASN
1	S	303	ALA
1	S	305	SER
1	S	340	ASP
1	S	345	SER
1	S	347	SER
1	S	350	ILE
1	S	421	PRO
1	S	434	ASP
1	S	438	THR
1	S	439	THR
1	S	448	PRO
1	S	449	ARG
1	S	474	ARG
1	S	481	ILE
1	S	482	SER
1	S	523	SER
1	S	524	ASP
1	S	534	GLY
1	S	576	VAL

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Mol	Chain	Res	Type
1	S	580	ILE
1	S	583	PHE
1	T	294	ASP
1	T	300	ALA
1	T	301	ASN
1	T	303	ALA
1	T	305	SER
1	T	340	ASP
1	T	345	SER
1	T	347	SER
1	T	350	ILE
1	T	421	PRO
1	T	434	ASP
1	T	438	THR
1	T	439	THR
1	T	448	PRO
1	T	449	ARG
1	T	474	ARG
1	T	481	ILE
1	T	482	SER
1	T	523	SER
1	T	524	ASP
1	T	534	GLY
1	T	576	VAL
1	T	580	ILE
1	T	583	PHE
1	A	185	GLY
1	A	227	PHE
1	A	247	SER
1	A	322	PHE
1	A	323	HIS
1	A	355	TRP
1	A	400	GLY
1	A	405	ILE
1	A	433	GLY
1	A	460	ASN
1	A	463	PHE
1	A	475	ALA
1	A	479	LYS
1	A	483	ASN
1	A	516	VAL
1	A	551	SER

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Mol	Chain	Res	Type
1	A	577	ILE
1	B	185	GLY
1	B	227	PHE
1	B	247	SER
1	B	322	PHE
1	B	323	HIS
1	B	355	TRP
1	B	400	GLY
1	B	405	ILE
1	B	433	GLY
1	B	460	ASN
1	B	463	PHE
1	B	475	ALA
1	B	479	LYS
1	B	483	ASN
1	B	516	VAL
1	B	551	SER
1	B	577	ILE
1	C	185	GLY
1	C	227	PHE
1	C	247	SER
1	C	322	PHE
1	C	323	HIS
1	C	355	TRP
1	C	400	GLY
1	C	405	ILE
1	C	433	GLY
1	C	460	ASN
1	C	463	PHE
1	C	475	ALA
1	C	479	LYS
1	C	483	ASN
1	C	516	VAL
1	C	551	SER
1	C	577	ILE
1	D	185	GLY
1	D	227	PHE
1	D	247	SER
1	D	322	PHE
1	D	323	HIS
1	D	355	TRP
1	D	400	GLY

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Mol	Chain	Res	Type
1	D	405	ILE
1	D	433	GLY
1	D	460	ASN
1	D	463	PHE
1	D	475	ALA
1	D	479	LYS
1	D	483	ASN
1	D	516	VAL
1	D	551	SER
1	D	577	ILE
1	E	185	GLY
1	E	227	PHE
1	E	247	SER
1	E	322	PHE
1	E	323	HIS
1	E	355	TRP
1	E	400	GLY
1	E	405	ILE
1	E	433	GLY
1	E	460	ASN
1	E	463	PHE
1	E	475	ALA
1	E	479	LYS
1	E	483	ASN
1	E	516	VAL
1	E	551	SER
1	E	577	ILE
1	F	185	GLY
1	F	227	PHE
1	F	247	SER
1	F	322	PHE
1	F	323	HIS
1	F	355	TRP
1	F	400	GLY
1	F	405	ILE
1	F	433	GLY
1	F	460	ASN
1	F	463	PHE
1	F	475	ALA
1	F	479	LYS
1	F	483	ASN
1	F	516	VAL

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Mol	Chain	Res	Type
1	F	551	SER
1	F	577	ILE
1	G	185	GLY
1	G	227	PHE
1	G	247	SER
1	G	322	PHE
1	G	323	HIS
1	G	355	TRP
1	G	400	GLY
1	G	405	ILE
1	G	433	GLY
1	G	460	ASN
1	G	463	PHE
1	G	475	ALA
1	G	479	LYS
1	G	483	ASN
1	G	516	VAL
1	G	551	SER
1	G	577	ILE
1	H	185	GLY
1	H	227	PHE
1	H	247	SER
1	H	322	PHE
1	H	323	HIS
1	H	355	TRP
1	H	400	GLY
1	H	405	ILE
1	H	433	GLY
1	H	460	ASN
1	H	463	PHE
1	H	475	ALA
1	H	479	LYS
1	H	483	ASN
1	H	516	VAL
1	H	551	SER
1	H	577	ILE
1	I	185	GLY
1	I	227	PHE
1	I	247	SER
1	I	322	PHE
1	I	323	HIS
1	I	355	TRP

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Mol	Chain	Res	Type
1	I	400	GLY
1	I	405	ILE
1	I	433	GLY
1	I	460	ASN
1	I	463	PHE
1	I	475	ALA
1	I	479	LYS
1	I	483	ASN
1	I	516	VAL
1	I	551	SER
1	I	577	ILE
1	J	185	GLY
1	J	227	PHE
1	J	247	SER
1	J	322	PHE
1	J	323	HIS
1	J	355	TRP
1	J	400	GLY
1	J	405	ILE
1	J	433	GLY
1	J	460	ASN
1	J	463	PHE
1	J	475	ALA
1	J	479	LYS
1	J	483	ASN
1	J	516	VAL
1	J	551	SER
1	J	577	ILE
1	K	185	GLY
1	K	227	PHE
1	K	247	SER
1	K	322	PHE
1	K	323	HIS
1	K	355	TRP
1	K	400	GLY
1	K	405	ILE
1	K	433	GLY
1	K	460	ASN
1	K	463	PHE
1	K	475	ALA
1	K	479	LYS
1	K	483	ASN

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Mol	Chain	Res	Type
1	K	516	VAL
1	K	551	SER
1	K	577	ILE
1	L	185	GLY
1	L	227	PHE
1	L	247	SER
1	L	322	PHE
1	L	323	HIS
1	L	355	TRP
1	L	400	GLY
1	L	405	ILE
1	L	433	GLY
1	L	460	ASN
1	L	463	PHE
1	L	475	ALA
1	L	479	LYS
1	L	483	ASN
1	L	516	VAL
1	L	551	SER
1	L	577	ILE
1	M	185	GLY
1	M	227	PHE
1	M	247	SER
1	M	322	PHE
1	M	323	HIS
1	M	355	TRP
1	M	400	GLY
1	M	405	ILE
1	M	433	GLY
1	M	460	ASN
1	M	463	PHE
1	M	475	ALA
1	M	479	LYS
1	M	483	ASN
1	M	516	VAL
1	M	551	SER
1	M	577	ILE
1	N	185	GLY
1	N	227	PHE
1	N	247	SER
1	N	322	PHE
1	N	323	HIS

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Mol	Chain	Res	Type
1	N	355	TRP
1	N	400	GLY
1	N	405	ILE
1	N	433	GLY
1	N	460	ASN
1	N	463	PHE
1	N	475	ALA
1	N	479	LYS
1	N	483	ASN
1	N	516	VAL
1	N	551	SER
1	N	577	ILE
1	O	185	GLY
1	O	227	PHE
1	O	247	SER
1	O	322	PHE
1	O	323	HIS
1	O	355	TRP
1	O	400	GLY
1	O	405	ILE
1	O	433	GLY
1	O	460	ASN
1	O	463	PHE
1	O	475	ALA
1	O	479	LYS
1	O	483	ASN
1	O	516	VAL
1	O	551	SER
1	O	577	ILE
1	P	185	GLY
1	P	227	PHE
1	P	247	SER
1	P	322	PHE
1	P	323	HIS
1	P	355	TRP
1	P	400	GLY
1	P	405	ILE
1	P	433	GLY
1	P	460	ASN
1	P	463	PHE
1	P	475	ALA
1	P	479	LYS

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Mol	Chain	Res	Type
1	P	483	ASN
1	P	516	VAL
1	P	551	SER
1	P	577	ILE
1	Q	185	GLY
1	Q	227	PHE
1	Q	247	SER
1	Q	322	PHE
1	Q	323	HIS
1	Q	355	TRP
1	Q	400	GLY
1	Q	405	ILE
1	Q	433	GLY
1	Q	460	ASN
1	Q	463	PHE
1	Q	475	ALA
1	Q	479	LYS
1	Q	483	ASN
1	Q	516	VAL
1	Q	551	SER
1	Q	577	ILE
1	R	185	GLY
1	R	227	PHE
1	R	247	SER
1	R	322	PHE
1	R	323	HIS
1	R	355	TRP
1	R	400	GLY
1	R	405	ILE
1	R	433	GLY
1	R	460	ASN
1	R	463	PHE
1	R	475	ALA
1	R	479	LYS
1	R	483	ASN
1	R	516	VAL
1	R	551	SER
1	R	577	ILE
1	S	185	GLY
1	S	227	PHE
1	S	247	SER
1	S	322	PHE

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Mol	Chain	Res	Type
1	S	323	HIS
1	S	355	TRP
1	S	400	GLY
1	S	405	ILE
1	S	433	GLY
1	S	460	ASN
1	S	463	PHE
1	S	475	ALA
1	S	479	LYS
1	S	483	ASN
1	S	516	VAL
1	S	551	SER
1	S	577	ILE
1	T	185	GLY
1	T	227	PHE
1	T	247	SER
1	T	322	PHE
1	T	323	HIS
1	T	355	TRP
1	T	400	GLY
1	T	405	ILE
1	T	433	GLY
1	T	460	ASN
1	T	463	PHE
1	T	475	ALA
1	T	479	LYS
1	T	483	ASN
1	T	516	VAL
1	T	551	SER
1	T	577	ILE
1	A	281	ASP
1	A	408	ALA
1	A	432	ALA
1	A	540	ILE
1	A	558	ALA
1	A	584	ASN
1	A	606	PHE
1	A	641	PHE
1	B	281	ASP
1	B	408	ALA
1	B	432	ALA
1	B	540	ILE

Continued on next page...

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Mol	Chain	Res	Type
1	B	558	ALA
1	B	584	ASN
1	B	606	PHE
1	B	641	PHE
1	C	281	ASP
1	C	408	ALA
1	C	432	ALA
1	C	540	ILE
1	C	558	ALA
1	C	584	ASN
1	C	606	PHE
1	C	641	PHE
1	D	281	ASP
1	D	408	ALA
1	D	432	ALA
1	D	540	ILE
1	D	558	ALA
1	D	584	ASN
1	D	606	PHE
1	D	641	PHE
1	E	281	ASP
1	E	408	ALA
1	E	432	ALA
1	E	540	ILE
1	E	558	ALA
1	E	584	ASN
1	E	606	PHE
1	E	641	PHE
1	F	281	ASP
1	F	408	ALA
1	F	432	ALA
1	F	540	ILE
1	F	558	ALA
1	F	584	ASN
1	F	606	PHE
1	F	641	PHE
1	G	281	ASP
1	G	408	ALA
1	G	432	ALA
1	G	540	ILE
1	G	558	ALA
1	G	584	ASN

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Mol	Chain	Res	Type
1	G	606	PHE
1	G	641	PHE
1	H	281	ASP
1	H	408	ALA
1	H	432	ALA
1	H	540	ILE
1	H	558	ALA
1	H	584	ASN
1	H	606	PHE
1	H	641	PHE
1	I	281	ASP
1	I	408	ALA
1	I	432	ALA
1	I	540	ILE
1	I	558	ALA
1	I	584	ASN
1	I	606	PHE
1	I	641	PHE
1	J	281	ASP
1	J	408	ALA
1	J	432	ALA
1	J	540	ILE
1	J	558	ALA
1	J	584	ASN
1	J	606	PHE
1	J	641	PHE
1	K	281	ASP
1	K	408	ALA
1	K	432	ALA
1	K	540	ILE
1	K	584	ASN
1	K	606	PHE
1	K	641	PHE
1	L	281	ASP
1	L	408	ALA
1	L	432	ALA
1	L	540	ILE
1	L	584	ASN
1	L	606	PHE
1	L	641	PHE
1	M	281	ASP
1	M	408	ALA

Continued on next page...

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Mol	Chain	Res	Type
1	M	432	ALA
1	M	540	ILE
1	M	558	ALA
1	M	584	ASN
1	M	606	PHE
1	M	641	PHE
1	N	281	ASP
1	N	408	ALA
1	N	432	ALA
1	N	540	ILE
1	N	558	ALA
1	N	584	ASN
1	N	606	PHE
1	N	641	PHE
1	O	281	ASP
1	O	408	ALA
1	O	432	ALA
1	O	540	ILE
1	O	558	ALA
1	O	584	ASN
1	O	606	PHE
1	O	641	PHE
1	P	281	ASP
1	P	408	ALA
1	P	432	ALA
1	P	540	ILE
1	P	558	ALA
1	P	584	ASN
1	P	606	PHE
1	P	641	PHE
1	Q	281	ASP
1	Q	408	ALA
1	Q	432	ALA
1	Q	540	ILE
1	Q	558	ALA
1	Q	584	ASN
1	Q	606	PHE
1	Q	641	PHE
1	R	281	ASP
1	R	408	ALA
1	R	432	ALA
1	R	540	ILE

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Mol	Chain	Res	Type
1	R	558	ALA
1	R	584	ASN
1	R	606	PHE
1	R	641	PHE
1	S	281	ASP
1	S	408	ALA
1	S	432	ALA
1	S	540	ILE
1	S	558	ALA
1	S	584	ASN
1	S	606	PHE
1	S	641	PHE
1	T	281	ASP
1	T	408	ALA
1	T	432	ALA
1	T	540	ILE
1	T	558	ALA
1	T	584	ASN
1	T	606	PHE
1	T	641	PHE
1	A	167	GLU
1	A	197	LEU
1	A	260	GLN
1	A	462	ASN
1	B	167	GLU
1	B	197	LEU
1	B	260	GLN
1	B	462	ASN
1	C	167	GLU
1	C	197	LEU
1	C	260	GLN
1	C	462	ASN
1	D	167	GLU
1	D	197	LEU
1	D	260	GLN
1	D	462	ASN
1	E	167	GLU
1	E	197	LEU
1	E	260	GLN
1	E	462	ASN
1	F	167	GLU
1	F	197	LEU

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Mol	Chain	Res	Type
1	F	260	GLN
1	F	462	ASN
1	G	167	GLU
1	G	197	LEU
1	G	260	GLN
1	G	462	ASN
1	H	167	GLU
1	H	197	LEU
1	H	260	GLN
1	H	462	ASN
1	I	167	GLU
1	I	197	LEU
1	I	260	GLN
1	I	462	ASN
1	J	167	GLU
1	J	197	LEU
1	J	260	GLN
1	J	462	ASN
1	K	167	GLU
1	K	197	LEU
1	K	260	GLN
1	K	462	ASN
1	K	558	ALA
1	L	167	GLU
1	L	197	LEU
1	L	260	GLN
1	L	462	ASN
1	L	558	ALA
1	M	167	GLU
1	M	197	LEU
1	M	260	GLN
1	M	462	ASN
1	N	167	GLU
1	N	197	LEU
1	N	260	GLN
1	N	462	ASN
1	O	167	GLU
1	O	197	LEU
1	O	260	GLN
1	O	462	ASN
1	P	167	GLU
1	P	197	LEU

Continued on next page...

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Mol	Chain	Res	Type
1	P	260	GLN
1	P	462	ASN
1	Q	167	GLU
1	Q	197	LEU
1	Q	260	GLN
1	Q	462	ASN
1	R	167	GLU
1	R	197	LEU
1	R	260	GLN
1	R	462	ASN
1	S	167	GLU
1	S	197	LEU
1	S	260	GLN
1	S	462	ASN
1	T	167	GLU
1	T	197	LEU
1	T	260	GLN
1	T	462	ASN
1	A	386	PRO
1	A	412	ILE
1	A	437	VAL
1	A	488	THR
1	A	616	GLY
1	B	386	PRO
1	B	412	ILE
1	B	428	LYS
1	B	437	VAL
1	B	488	THR
1	B	616	GLY
1	C	386	PRO
1	C	412	ILE
1	C	428	LYS
1	C	437	VAL
1	C	616	GLY
1	D	386	PRO
1	D	412	ILE
1	D	428	LYS
1	D	437	VAL
1	D	488	THR
1	D	616	GLY
1	E	386	PRO
1	E	412	ILE

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Mol	Chain	Res	Type
1	E	428	LYS
1	E	437	VAL
1	E	488	THR
1	E	616	GLY
1	F	386	PRO
1	F	412	ILE
1	F	428	LYS
1	F	437	VAL
1	F	488	THR
1	F	616	GLY
1	G	386	PRO
1	G	412	ILE
1	G	428	LYS
1	G	437	VAL
1	G	488	THR
1	G	616	GLY
1	H	386	PRO
1	H	412	ILE
1	H	428	LYS
1	H	437	VAL
1	H	488	THR
1	H	616	GLY
1	I	386	PRO
1	I	412	ILE
1	I	428	LYS
1	I	437	VAL
1	I	616	GLY
1	J	386	PRO
1	J	412	ILE
1	J	428	LYS
1	J	437	VAL
1	J	488	THR
1	J	616	GLY
1	K	386	PRO
1	K	412	ILE
1	K	428	LYS
1	K	437	VAL
1	K	616	GLY
1	L	386	PRO
1	L	412	ILE
1	L	437	VAL
1	L	488	THR

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Mol	Chain	Res	Type
1	L	616	GLY
1	M	386	PRO
1	M	412	ILE
1	M	428	LYS
1	M	437	VAL
1	M	616	GLY
1	N	386	PRO
1	N	412	ILE
1	N	428	LYS
1	N	437	VAL
1	N	616	GLY
1	O	386	PRO
1	O	412	ILE
1	O	428	LYS
1	O	437	VAL
1	O	616	GLY
1	P	386	PRO
1	P	412	ILE
1	P	437	VAL
1	P	616	GLY
1	Q	386	PRO
1	Q	412	ILE
1	Q	428	LYS
1	Q	437	VAL
1	Q	488	THR
1	Q	616	GLY
1	R	386	PRO
1	R	412	ILE
1	R	428	LYS
1	R	437	VAL
1	R	488	THR
1	R	616	GLY
1	S	386	PRO
1	S	412	ILE
1	S	428	LYS
1	S	437	VAL
1	S	488	THR
1	S	616	GLY
1	T	386	PRO
1	T	412	ILE
1	T	437	VAL
1	T	488	THR

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Mol	Chain	Res	Type
1	T	616	GLY
1	A	428	LYS
1	A	445	ILE
1	A	510	VAL
1	A	603	PRO
1	B	445	ILE
1	B	510	VAL
1	B	603	PRO
1	C	445	ILE
1	C	488	THR
1	C	510	VAL
1	C	603	PRO
1	D	445	ILE
1	D	510	VAL
1	D	603	PRO
1	E	445	ILE
1	E	510	VAL
1	E	603	PRO
1	F	445	ILE
1	F	510	VAL
1	F	603	PRO
1	G	445	ILE
1	G	510	VAL
1	G	603	PRO
1	H	445	ILE
1	H	510	VAL
1	H	603	PRO
1	I	445	ILE
1	I	488	THR
1	I	510	VAL
1	I	603	PRO
1	J	445	ILE
1	J	510	VAL
1	J	603	PRO
1	K	445	ILE
1	K	488	THR
1	K	510	VAL
1	K	603	PRO
1	L	428	LYS
1	L	445	ILE
1	L	510	VAL
1	L	603	PRO

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Mol	Chain	Res	Type
1	M	445	ILE
1	M	488	THR
1	M	510	VAL
1	M	603	PRO
1	N	445	ILE
1	N	488	THR
1	N	510	VAL
1	N	603	PRO
1	O	445	ILE
1	O	488	THR
1	O	510	VAL
1	O	603	PRO
1	P	428	LYS
1	P	445	ILE
1	P	488	THR
1	P	510	VAL
1	P	603	PRO
1	Q	445	ILE
1	Q	510	VAL
1	Q	603	PRO
1	R	445	ILE
1	R	510	VAL
1	R	603	PRO
1	S	445	ILE
1	S	510	VAL
1	S	603	PRO
1	T	428	LYS
1	T	445	ILE
1	T	510	VAL
1	T	603	PRO
1	A	525	VAL
1	A	535	ILE
1	B	525	VAL
1	B	535	ILE
1	C	525	VAL
1	C	535	ILE
1	D	525	VAL
1	D	535	ILE
1	E	525	VAL
1	E	535	ILE
1	F	525	VAL
1	F	535	ILE

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Mol	Chain	Res	Type
1	G	525	VAL
1	G	535	ILE
1	H	525	VAL
1	H	535	ILE
1	I	525	VAL
1	I	535	ILE
1	J	525	VAL
1	J	535	ILE
1	K	525	VAL
1	K	535	ILE
1	L	525	VAL
1	L	535	ILE
1	M	525	VAL
1	M	535	ILE
1	N	525	VAL
1	N	535	ILE
1	O	525	VAL
1	O	535	ILE
1	P	525	VAL
1	P	535	ILE
1	Q	525	VAL
1	Q	535	ILE
1	R	525	VAL
1	R	535	ILE
1	S	525	VAL
1	S	535	ILE
1	T	525	VAL
1	T	535	ILE
1	J	225	GLY
1	O	225	GLY
1	T	225	GLY
1	A	225	GLY
1	A	431	PRO
1	B	225	GLY
1	B	431	PRO
1	C	225	GLY
1	C	431	PRO
1	D	225	GLY
1	D	431	PRO
1	E	225	GLY
1	E	431	PRO
1	F	225	GLY

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Mol	Chain	Res	Type
1	F	431	PRO
1	G	225	GLY
1	G	431	PRO
1	H	225	GLY
1	H	431	PRO
1	I	225	GLY
1	I	431	PRO
1	J	431	PRO
1	K	225	GLY
1	K	431	PRO
1	L	225	GLY
1	L	431	PRO
1	M	225	GLY
1	M	431	PRO
1	N	225	GLY
1	N	431	PRO
1	O	431	PRO
1	P	225	GLY
1	P	431	PRO
1	Q	225	GLY
1	Q	431	PRO
1	R	225	GLY
1	R	431	PRO
1	S	225	GLY
1	S	431	PRO
1	T	431	PRO
1	A	661	ILE
1	B	661	ILE
1	C	661	ILE
1	D	661	ILE
1	E	661	ILE
1	F	661	ILE
1	G	661	ILE
1	H	661	ILE
1	I	661	ILE
1	J	661	ILE
1	K	661	ILE
1	L	661	ILE
1	M	661	ILE
1	N	661	ILE
1	O	661	ILE
1	P	661	ILE

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Mol	Chain	Res	Type
1	Q	661	ILE
1	R	661	ILE
1	S	661	ILE
1	T	661	ILE

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	434/464 (94%)	367 (85%)	67 (15%)	2	12
1	B	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	C	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	D	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	E	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	F	434/464 (94%)	367 (85%)	67 (15%)	2	12
1	G	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	H	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	I	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	J	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	K	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	L	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	M	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	N	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	O	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	P	434/464 (94%)	367 (85%)	67 (15%)	2	12
1	Q	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	R	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	S	434/464 (94%)	368 (85%)	66 (15%)	3	12
1	T	434/464 (94%)	368 (85%)	66 (15%)	3	12

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	8680/9280 (94%)	7357 (85%)	1323 (15%)	3 12

All (1323) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	163	ASP
1	A	165	GLU
1	A	169	PHE
1	A	180	THR
1	A	182	GLU
1	A	183	THR
1	A	202	THR
1	A	207	LEU
1	A	209	VAL
1	A	212	SER
1	A	234	ILE
1	A	246	THR
1	A	266	PHE
1	A	270	ASP
1	A	274	THR
1	A	287	LEU
1	A	299	TYR
1	A	302	ASP
1	A	323	HIS
1	A	336	SER
1	A	342	ILE
1	A	344	LYS
1	A	348	LEU
1	A	357	ASP
1	A	376	PHE
1	A	384	SER
1	A	394	THR
1	A	395	ILE
1	A	403	LEU
1	A	405	ILE
1	A	413	VAL
1	A	418	ASP
1	A	425	ILE
1	A	438	THR
1	A	445	ILE
1	A	447	THR
1	A	450	GLU

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Mol	Chain	Res	Type
1	A	453	SER
1	A	462	ASN
1	A	472	LEU
1	A	473	GLN
1	A	489	THR
1	A	503	ILE
1	A	508	ILE
1	A	512	GLN
1	A	516	VAL
1	A	520	VAL
1	A	521	GLN
1	A	523	SER
1	A	524	ASP
1	A	526	THR
1	A	527	LEU
1	A	535	ILE
1	A	537	GLU
1	A	543	ASP
1	A	549	ARG
1	A	555	GLU
1	A	572	LYS
1	A	580	ILE
1	A	584	ASN
1	A	591	SER
1	A	608	VAL
1	A	624	ASP
1	A	636	ILE
1	A	639	LEU
1	A	641	PHE
1	A	647	TYR
1	B	163	ASP
1	B	165	GLU
1	B	180	THR
1	B	182	GLU
1	B	183	THR
1	B	202	THR
1	B	207	LEU
1	B	209	VAL
1	B	212	SER
1	B	234	ILE
1	B	246	THR
1	B	266	PHE

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Mol	Chain	Res	Type
1	B	270	ASP
1	B	274	THR
1	B	287	LEU
1	B	299	TYR
1	B	302	ASP
1	B	323	HIS
1	B	336	SER
1	B	342	ILE
1	B	344	LYS
1	B	348	LEU
1	B	357	ASP
1	B	376	PHE
1	B	384	SER
1	B	394	THR
1	B	395	ILE
1	B	403	LEU
1	B	405	ILE
1	B	413	VAL
1	B	418	ASP
1	B	425	ILE
1	B	438	THR
1	B	445	ILE
1	B	447	THR
1	B	450	GLU
1	B	453	SER
1	B	462	ASN
1	B	472	LEU
1	B	473	GLN
1	B	489	THR
1	B	503	ILE
1	B	508	ILE
1	B	512	GLN
1	B	516	VAL
1	B	520	VAL
1	B	521	GLN
1	B	523	SER
1	B	524	ASP
1	B	526	THR
1	B	527	LEU
1	B	535	ILE
1	B	537	GLU
1	B	543	ASP

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Mol	Chain	Res	Type
1	B	549	ARG
1	B	555	GLU
1	B	572	LYS
1	B	580	ILE
1	B	584	ASN
1	B	591	SER
1	B	608	VAL
1	B	624	ASP
1	B	636	ILE
1	B	639	LEU
1	B	641	PHE
1	B	647	TYR
1	C	163	ASP
1	C	165	GLU
1	C	180	THR
1	C	182	GLU
1	C	183	THR
1	C	202	THR
1	C	207	LEU
1	C	209	VAL
1	C	212	SER
1	C	234	ILE
1	C	246	THR
1	C	266	PHE
1	C	270	ASP
1	C	274	THR
1	C	287	LEU
1	C	299	TYR
1	C	302	ASP
1	C	323	HIS
1	C	336	SER
1	C	342	ILE
1	C	344	LYS
1	C	348	LEU
1	C	357	ASP
1	C	376	PHE
1	C	384	SER
1	C	394	THR
1	C	395	ILE
1	C	403	LEU
1	C	405	ILE
1	C	413	VAL

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Mol	Chain	Res	Type
1	C	418	ASP
1	C	425	ILE
1	C	438	THR
1	C	445	ILE
1	C	447	THR
1	C	450	GLU
1	C	453	SER
1	C	462	ASN
1	C	472	LEU
1	C	473	GLN
1	C	489	THR
1	C	503	ILE
1	C	508	ILE
1	C	512	GLN
1	C	516	VAL
1	C	520	VAL
1	C	521	GLN
1	C	523	SER
1	C	524	ASP
1	C	526	THR
1	C	527	LEU
1	C	535	ILE
1	C	537	GLU
1	C	543	ASP
1	C	549	ARG
1	C	555	GLU
1	C	572	LYS
1	C	580	ILE
1	C	584	ASN
1	C	591	SER
1	C	608	VAL
1	C	624	ASP
1	C	636	ILE
1	C	639	LEU
1	C	641	PHE
1	C	647	TYR
1	D	163	ASP
1	D	165	GLU
1	D	180	THR
1	D	182	GLU
1	D	183	THR
1	D	202	THR

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Mol	Chain	Res	Type
1	D	207	LEU
1	D	209	VAL
1	D	212	SER
1	D	234	ILE
1	D	246	THR
1	D	266	PHE
1	D	270	ASP
1	D	274	THR
1	D	287	LEU
1	D	299	TYR
1	D	302	ASP
1	D	323	HIS
1	D	336	SER
1	D	342	ILE
1	D	344	LYS
1	D	348	LEU
1	D	357	ASP
1	D	376	PHE
1	D	384	SER
1	D	394	THR
1	D	395	ILE
1	D	403	LEU
1	D	405	ILE
1	D	413	VAL
1	D	418	ASP
1	D	425	ILE
1	D	438	THR
1	D	445	ILE
1	D	447	THR
1	D	450	GLU
1	D	453	SER
1	D	462	ASN
1	D	472	LEU
1	D	473	GLN
1	D	489	THR
1	D	503	ILE
1	D	508	ILE
1	D	512	GLN
1	D	516	VAL
1	D	520	VAL
1	D	521	GLN
1	D	523	SER

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Mol	Chain	Res	Type
1	D	524	ASP
1	D	526	THR
1	D	527	LEU
1	D	535	ILE
1	D	537	GLU
1	D	543	ASP
1	D	549	ARG
1	D	555	GLU
1	D	572	LYS
1	D	580	ILE
1	D	584	ASN
1	D	591	SER
1	D	608	VAL
1	D	624	ASP
1	D	636	ILE
1	D	639	LEU
1	D	641	PHE
1	D	647	TYR
1	E	163	ASP
1	E	165	GLU
1	E	180	THR
1	E	182	GLU
1	E	183	THR
1	E	202	THR
1	E	207	LEU
1	E	209	VAL
1	E	212	SER
1	E	234	ILE
1	E	246	THR
1	E	266	PHE
1	E	270	ASP
1	E	274	THR
1	E	287	LEU
1	E	299	TYR
1	E	302	ASP
1	E	323	HIS
1	E	336	SER
1	E	342	ILE
1	E	344	LYS
1	E	348	LEU
1	E	357	ASP
1	E	376	PHE

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Mol	Chain	Res	Type
1	E	384	SER
1	E	394	THR
1	E	395	ILE
1	E	403	LEU
1	E	405	ILE
1	E	413	VAL
1	E	418	ASP
1	E	425	ILE
1	E	438	THR
1	E	445	ILE
1	E	447	THR
1	E	450	GLU
1	E	453	SER
1	E	462	ASN
1	E	472	LEU
1	E	473	GLN
1	E	489	THR
1	E	503	ILE
1	E	508	ILE
1	E	512	GLN
1	E	516	VAL
1	E	520	VAL
1	E	521	GLN
1	E	523	SER
1	E	524	ASP
1	E	526	THR
1	E	527	LEU
1	E	535	ILE
1	E	537	GLU
1	E	543	ASP
1	E	549	ARG
1	E	555	GLU
1	E	572	LYS
1	E	580	ILE
1	E	584	ASN
1	E	591	SER
1	E	608	VAL
1	E	624	ASP
1	E	636	ILE
1	E	639	LEU
1	E	641	PHE
1	E	647	TYR

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Mol	Chain	Res	Type
1	F	163	ASP
1	F	165	GLU
1	F	169	PHE
1	F	180	THR
1	F	182	GLU
1	F	183	THR
1	F	202	THR
1	F	207	LEU
1	F	209	VAL
1	F	212	SER
1	F	234	ILE
1	F	246	THR
1	F	266	PHE
1	F	270	ASP
1	F	274	THR
1	F	287	LEU
1	F	299	TYR
1	F	302	ASP
1	F	323	HIS
1	F	336	SER
1	F	342	ILE
1	F	344	LYS
1	F	348	LEU
1	F	357	ASP
1	F	376	PHE
1	F	384	SER
1	F	394	THR
1	F	395	ILE
1	F	403	LEU
1	F	405	ILE
1	F	413	VAL
1	F	418	ASP
1	F	425	ILE
1	F	438	THR
1	F	445	ILE
1	F	447	THR
1	F	450	GLU
1	F	453	SER
1	F	462	ASN
1	F	472	LEU
1	F	473	GLN
1	F	489	THR

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Mol	Chain	Res	Type
1	F	503	ILE
1	F	508	ILE
1	F	512	GLN
1	F	516	VAL
1	F	520	VAL
1	F	521	GLN
1	F	523	SER
1	F	524	ASP
1	F	526	THR
1	F	527	LEU
1	F	535	ILE
1	F	537	GLU
1	F	543	ASP
1	F	549	ARG
1	F	555	GLU
1	F	572	LYS
1	F	580	ILE
1	F	584	ASN
1	F	591	SER
1	F	608	VAL
1	F	624	ASP
1	F	636	ILE
1	F	639	LEU
1	F	641	PHE
1	F	647	TYR
1	G	163	ASP
1	G	165	GLU
1	G	180	THR
1	G	182	GLU
1	G	183	THR
1	G	202	THR
1	G	207	LEU
1	G	209	VAL
1	G	212	SER
1	G	234	ILE
1	G	246	THR
1	G	266	PHE
1	G	270	ASP
1	G	274	THR
1	G	287	LEU
1	G	299	TYR
1	G	302	ASP

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Mol	Chain	Res	Type
1	G	323	HIS
1	G	336	SER
1	G	342	ILE
1	G	344	LYS
1	G	348	LEU
1	G	357	ASP
1	G	376	PHE
1	G	384	SER
1	G	394	THR
1	G	395	ILE
1	G	403	LEU
1	G	405	ILE
1	G	413	VAL
1	G	418	ASP
1	G	425	ILE
1	G	438	THR
1	G	445	ILE
1	G	447	THR
1	G	450	GLU
1	G	453	SER
1	G	462	ASN
1	G	472	LEU
1	G	473	GLN
1	G	489	THR
1	G	503	ILE
1	G	508	ILE
1	G	512	GLN
1	G	516	VAL
1	G	520	VAL
1	G	521	GLN
1	G	523	SER
1	G	524	ASP
1	G	526	THR
1	G	527	LEU
1	G	535	ILE
1	G	537	GLU
1	G	543	ASP
1	G	549	ARG
1	G	555	GLU
1	G	572	LYS
1	G	580	ILE
1	G	584	ASN

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Mol	Chain	Res	Type
1	G	591	SER
1	G	608	VAL
1	G	624	ASP
1	G	636	ILE
1	G	639	LEU
1	G	641	PHE
1	G	647	TYR
1	H	163	ASP
1	H	165	GLU
1	H	180	THR
1	H	182	GLU
1	H	183	THR
1	H	202	THR
1	H	207	LEU
1	H	209	VAL
1	H	212	SER
1	H	234	ILE
1	H	246	THR
1	H	266	PHE
1	H	270	ASP
1	H	274	THR
1	H	287	LEU
1	H	299	TYR
1	H	302	ASP
1	H	323	HIS
1	H	336	SER
1	H	342	ILE
1	H	344	LYS
1	H	348	LEU
1	H	357	ASP
1	H	376	PHE
1	H	384	SER
1	H	394	THR
1	H	395	ILE
1	H	403	LEU
1	H	405	ILE
1	H	413	VAL
1	H	418	ASP
1	H	425	ILE
1	H	438	THR
1	H	445	ILE
1	H	447	THR

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Mol	Chain	Res	Type
1	H	450	GLU
1	H	453	SER
1	H	462	ASN
1	H	472	LEU
1	H	473	GLN
1	H	489	THR
1	H	503	ILE
1	H	508	ILE
1	H	512	GLN
1	H	516	VAL
1	H	520	VAL
1	H	521	GLN
1	H	523	SER
1	H	524	ASP
1	H	526	THR
1	H	527	LEU
1	H	535	ILE
1	H	537	GLU
1	H	543	ASP
1	H	549	ARG
1	H	555	GLU
1	H	572	LYS
1	H	580	ILE
1	H	584	ASN
1	H	591	SER
1	H	608	VAL
1	H	624	ASP
1	H	636	ILE
1	H	639	LEU
1	H	641	PHE
1	H	647	TYR
1	I	163	ASP
1	I	165	GLU
1	I	180	THR
1	I	182	GLU
1	I	183	THR
1	I	202	THR
1	I	207	LEU
1	I	209	VAL
1	I	212	SER
1	I	234	ILE
1	I	246	THR

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Mol	Chain	Res	Type
1	I	266	PHE
1	I	270	ASP
1	I	274	THR
1	I	287	LEU
1	I	299	TYR
1	I	302	ASP
1	I	323	HIS
1	I	336	SER
1	I	342	ILE
1	I	344	LYS
1	I	348	LEU
1	I	357	ASP
1	I	376	PHE
1	I	384	SER
1	I	394	THR
1	I	395	ILE
1	I	403	LEU
1	I	405	ILE
1	I	413	VAL
1	I	418	ASP
1	I	425	ILE
1	I	438	THR
1	I	445	ILE
1	I	447	THR
1	I	450	GLU
1	I	453	SER
1	I	462	ASN
1	I	472	LEU
1	I	473	GLN
1	I	489	THR
1	I	503	ILE
1	I	508	ILE
1	I	512	GLN
1	I	516	VAL
1	I	520	VAL
1	I	521	GLN
1	I	523	SER
1	I	524	ASP
1	I	526	THR
1	I	527	LEU
1	I	535	ILE
1	I	537	GLU

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Mol	Chain	Res	Type
1	I	543	ASP
1	I	549	ARG
1	I	555	GLU
1	I	572	LYS
1	I	580	ILE
1	I	584	ASN
1	I	591	SER
1	I	608	VAL
1	I	624	ASP
1	I	636	ILE
1	I	639	LEU
1	I	641	PHE
1	I	647	TYR
1	J	163	ASP
1	J	165	GLU
1	J	180	THR
1	J	182	GLU
1	J	183	THR
1	J	202	THR
1	J	207	LEU
1	J	209	VAL
1	J	212	SER
1	J	234	ILE
1	J	246	THR
1	J	266	PHE
1	J	270	ASP
1	J	274	THR
1	J	287	LEU
1	J	299	TYR
1	J	302	ASP
1	J	323	HIS
1	J	336	SER
1	J	342	ILE
1	J	344	LYS
1	J	348	LEU
1	J	357	ASP
1	J	376	PHE
1	J	384	SER
1	J	394	THR
1	J	395	ILE
1	J	403	LEU
1	J	405	ILE

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Mol	Chain	Res	Type
1	J	413	VAL
1	J	418	ASP
1	J	425	ILE
1	J	438	THR
1	J	445	ILE
1	J	447	THR
1	J	450	GLU
1	J	453	SER
1	J	462	ASN
1	J	472	LEU
1	J	473	GLN
1	J	489	THR
1	J	503	ILE
1	J	508	ILE
1	J	512	GLN
1	J	516	VAL
1	J	520	VAL
1	J	521	GLN
1	J	523	SER
1	J	524	ASP
1	J	526	THR
1	J	527	LEU
1	J	535	ILE
1	J	537	GLU
1	J	543	ASP
1	J	549	ARG
1	J	555	GLU
1	J	572	LYS
1	J	580	ILE
1	J	584	ASN
1	J	591	SER
1	J	608	VAL
1	J	624	ASP
1	J	636	ILE
1	J	639	LEU
1	J	641	PHE
1	J	647	TYR
1	K	163	ASP
1	K	165	GLU
1	K	180	THR
1	K	182	GLU
1	K	183	THR

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Mol	Chain	Res	Type
1	K	202	THR
1	K	207	LEU
1	K	209	VAL
1	K	212	SER
1	K	234	ILE
1	K	246	THR
1	K	266	PHE
1	K	270	ASP
1	K	274	THR
1	K	287	LEU
1	K	299	TYR
1	K	302	ASP
1	K	323	HIS
1	K	336	SER
1	K	342	ILE
1	K	344	LYS
1	K	348	LEU
1	K	357	ASP
1	K	376	PHE
1	K	384	SER
1	K	394	THR
1	K	395	ILE
1	K	403	LEU
1	K	405	ILE
1	K	413	VAL
1	K	418	ASP
1	K	425	ILE
1	K	438	THR
1	K	445	ILE
1	K	447	THR
1	K	450	GLU
1	K	453	SER
1	K	462	ASN
1	K	472	LEU
1	K	473	GLN
1	K	489	THR
1	K	503	ILE
1	K	508	ILE
1	K	512	GLN
1	K	516	VAL
1	K	520	VAL
1	K	521	GLN

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Mol	Chain	Res	Type
1	K	523	SER
1	K	524	ASP
1	K	526	THR
1	K	527	LEU
1	K	535	ILE
1	K	537	GLU
1	K	543	ASP
1	K	549	ARG
1	K	555	GLU
1	K	572	LYS
1	K	580	ILE
1	K	584	ASN
1	K	591	SER
1	K	608	VAL
1	K	624	ASP
1	K	636	ILE
1	K	639	LEU
1	K	641	PHE
1	K	647	TYR
1	L	163	ASP
1	L	165	GLU
1	L	180	THR
1	L	182	GLU
1	L	183	THR
1	L	202	THR
1	L	207	LEU
1	L	209	VAL
1	L	212	SER
1	L	234	ILE
1	L	246	THR
1	L	266	PHE
1	L	270	ASP
1	L	274	THR
1	L	287	LEU
1	L	299	TYR
1	L	302	ASP
1	L	323	HIS
1	L	336	SER
1	L	342	ILE
1	L	344	LYS
1	L	348	LEU
1	L	357	ASP

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Mol	Chain	Res	Type
1	L	376	PHE
1	L	384	SER
1	L	394	THR
1	L	395	ILE
1	L	403	LEU
1	L	405	ILE
1	L	413	VAL
1	L	418	ASP
1	L	425	ILE
1	L	438	THR
1	L	445	ILE
1	L	447	THR
1	L	450	GLU
1	L	453	SER
1	L	462	ASN
1	L	472	LEU
1	L	473	GLN
1	L	489	THR
1	L	503	ILE
1	L	508	ILE
1	L	512	GLN
1	L	516	VAL
1	L	520	VAL
1	L	521	GLN
1	L	523	SER
1	L	524	ASP
1	L	526	THR
1	L	527	LEU
1	L	535	ILE
1	L	537	GLU
1	L	543	ASP
1	L	549	ARG
1	L	555	GLU
1	L	572	LYS
1	L	580	ILE
1	L	584	ASN
1	L	591	SER
1	L	608	VAL
1	L	624	ASP
1	L	636	ILE
1	L	639	LEU
1	L	641	PHE

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Mol	Chain	Res	Type
1	L	647	TYR
1	M	163	ASP
1	M	165	GLU
1	M	180	THR
1	M	182	GLU
1	M	183	THR
1	M	202	THR
1	M	207	LEU
1	M	209	VAL
1	M	212	SER
1	M	234	ILE
1	M	246	THR
1	M	266	PHE
1	M	270	ASP
1	M	274	THR
1	M	287	LEU
1	M	299	TYR
1	M	302	ASP
1	M	323	HIS
1	M	336	SER
1	M	342	ILE
1	M	344	LYS
1	M	348	LEU
1	M	357	ASP
1	M	376	PHE
1	M	384	SER
1	M	394	THR
1	M	395	ILE
1	M	403	LEU
1	M	405	ILE
1	M	413	VAL
1	M	418	ASP
1	M	425	ILE
1	M	438	THR
1	M	445	ILE
1	M	447	THR
1	M	450	GLU
1	M	453	SER
1	M	462	ASN
1	M	472	LEU
1	M	473	GLN
1	M	489	THR

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Mol	Chain	Res	Type
1	M	503	ILE
1	M	508	ILE
1	M	512	GLN
1	M	516	VAL
1	M	520	VAL
1	M	521	GLN
1	M	523	SER
1	M	524	ASP
1	M	526	THR
1	M	527	LEU
1	M	535	ILE
1	M	537	GLU
1	M	543	ASP
1	M	549	ARG
1	M	555	GLU
1	M	572	LYS
1	M	580	ILE
1	M	584	ASN
1	M	591	SER
1	M	608	VAL
1	M	624	ASP
1	M	636	ILE
1	M	639	LEU
1	M	641	PHE
1	M	647	TYR
1	N	163	ASP
1	N	165	GLU
1	N	180	THR
1	N	182	GLU
1	N	183	THR
1	N	202	THR
1	N	207	LEU
1	N	209	VAL
1	N	212	SER
1	N	234	ILE
1	N	246	THR
1	N	266	PHE
1	N	270	ASP
1	N	274	THR
1	N	287	LEU
1	N	299	TYR
1	N	302	ASP

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Mol	Chain	Res	Type
1	N	323	HIS
1	N	336	SER
1	N	342	ILE
1	N	344	LYS
1	N	348	LEU
1	N	357	ASP
1	N	376	PHE
1	N	384	SER
1	N	394	THR
1	N	395	ILE
1	N	403	LEU
1	N	405	ILE
1	N	413	VAL
1	N	418	ASP
1	N	425	ILE
1	N	438	THR
1	N	445	ILE
1	N	447	THR
1	N	450	GLU
1	N	453	SER
1	N	462	ASN
1	N	472	LEU
1	N	473	GLN
1	N	489	THR
1	N	503	ILE
1	N	508	ILE
1	N	512	GLN
1	N	516	VAL
1	N	520	VAL
1	N	521	GLN
1	N	523	SER
1	N	524	ASP
1	N	526	THR
1	N	527	LEU
1	N	535	ILE
1	N	537	GLU
1	N	543	ASP
1	N	549	ARG
1	N	555	GLU
1	N	572	LYS
1	N	580	ILE
1	N	584	ASN

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Mol	Chain	Res	Type
1	N	591	SER
1	N	608	VAL
1	N	624	ASP
1	N	636	ILE
1	N	639	LEU
1	N	641	PHE
1	N	647	TYR
1	O	163	ASP
1	O	165	GLU
1	O	180	THR
1	O	182	GLU
1	O	183	THR
1	O	202	THR
1	O	207	LEU
1	O	209	VAL
1	O	212	SER
1	O	234	ILE
1	O	246	THR
1	O	266	PHE
1	O	270	ASP
1	O	274	THR
1	O	287	LEU
1	O	299	TYR
1	O	302	ASP
1	O	323	HIS
1	O	336	SER
1	O	342	ILE
1	O	344	LYS
1	O	348	LEU
1	O	357	ASP
1	O	376	PHE
1	O	384	SER
1	O	394	THR
1	O	395	ILE
1	O	403	LEU
1	O	405	ILE
1	O	413	VAL
1	O	418	ASP
1	O	425	ILE
1	O	438	THR
1	O	445	ILE
1	O	447	THR

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Mol	Chain	Res	Type
1	O	450	GLU
1	O	453	SER
1	O	462	ASN
1	O	472	LEU
1	O	473	GLN
1	O	489	THR
1	O	503	ILE
1	O	508	ILE
1	O	512	GLN
1	O	516	VAL
1	O	520	VAL
1	O	521	GLN
1	O	523	SER
1	O	524	ASP
1	O	526	THR
1	O	527	LEU
1	O	535	ILE
1	O	537	GLU
1	O	543	ASP
1	O	549	ARG
1	O	555	GLU
1	O	572	LYS
1	O	580	ILE
1	O	584	ASN
1	O	591	SER
1	O	608	VAL
1	O	624	ASP
1	O	636	ILE
1	O	639	LEU
1	O	641	PHE
1	O	647	TYR
1	P	163	ASP
1	P	165	GLU
1	P	169	PHE
1	P	180	THR
1	P	182	GLU
1	P	183	THR
1	P	202	THR
1	P	207	LEU
1	P	209	VAL
1	P	212	SER
1	P	234	ILE

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Mol	Chain	Res	Type
1	P	246	THR
1	P	266	PHE
1	P	270	ASP
1	P	274	THR
1	P	287	LEU
1	P	299	TYR
1	P	302	ASP
1	P	323	HIS
1	P	336	SER
1	P	342	ILE
1	P	344	LYS
1	P	348	LEU
1	P	357	ASP
1	P	376	PHE
1	P	384	SER
1	P	394	THR
1	P	395	ILE
1	P	403	LEU
1	P	405	ILE
1	P	413	VAL
1	P	418	ASP
1	P	425	ILE
1	P	438	THR
1	P	445	ILE
1	P	447	THR
1	P	450	GLU
1	P	453	SER
1	P	462	ASN
1	P	472	LEU
1	P	473	GLN
1	P	489	THR
1	P	503	ILE
1	P	508	ILE
1	P	512	GLN
1	P	516	VAL
1	P	520	VAL
1	P	521	GLN
1	P	523	SER
1	P	524	ASP
1	P	526	THR
1	P	527	LEU
1	P	535	ILE

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Mol	Chain	Res	Type
1	P	537	GLU
1	P	543	ASP
1	P	549	ARG
1	P	555	GLU
1	P	572	LYS
1	P	580	ILE
1	P	584	ASN
1	P	591	SER
1	P	608	VAL
1	P	624	ASP
1	P	636	ILE
1	P	639	LEU
1	P	641	PHE
1	P	647	TYR
1	Q	163	ASP
1	Q	165	GLU
1	Q	180	THR
1	Q	182	GLU
1	Q	183	THR
1	Q	202	THR
1	Q	207	LEU
1	Q	209	VAL
1	Q	212	SER
1	Q	234	ILE
1	Q	246	THR
1	Q	266	PHE
1	Q	270	ASP
1	Q	274	THR
1	Q	287	LEU
1	Q	299	TYR
1	Q	302	ASP
1	Q	323	HIS
1	Q	336	SER
1	Q	342	ILE
1	Q	344	LYS
1	Q	348	LEU
1	Q	357	ASP
1	Q	376	PHE
1	Q	384	SER
1	Q	394	THR
1	Q	395	ILE
1	Q	403	LEU

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Mol	Chain	Res	Type
1	Q	405	ILE
1	Q	413	VAL
1	Q	418	ASP
1	Q	425	ILE
1	Q	438	THR
1	Q	445	ILE
1	Q	447	THR
1	Q	450	GLU
1	Q	453	SER
1	Q	462	ASN
1	Q	472	LEU
1	Q	473	GLN
1	Q	489	THR
1	Q	503	ILE
1	Q	508	ILE
1	Q	512	GLN
1	Q	516	VAL
1	Q	520	VAL
1	Q	521	GLN
1	Q	523	SER
1	Q	524	ASP
1	Q	526	THR
1	Q	527	LEU
1	Q	535	ILE
1	Q	537	GLU
1	Q	543	ASP
1	Q	549	ARG
1	Q	555	GLU
1	Q	572	LYS
1	Q	580	ILE
1	Q	584	ASN
1	Q	591	SER
1	Q	608	VAL
1	Q	624	ASP
1	Q	636	ILE
1	Q	639	LEU
1	Q	641	PHE
1	Q	647	TYR
1	R	163	ASP
1	R	165	GLU
1	R	180	THR
1	R	182	GLU

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Mol	Chain	Res	Type
1	R	183	THR
1	R	202	THR
1	R	207	LEU
1	R	209	VAL
1	R	212	SER
1	R	234	ILE
1	R	246	THR
1	R	266	PHE
1	R	270	ASP
1	R	274	THR
1	R	287	LEU
1	R	299	TYR
1	R	302	ASP
1	R	323	HIS
1	R	336	SER
1	R	342	ILE
1	R	344	LYS
1	R	348	LEU
1	R	357	ASP
1	R	376	PHE
1	R	384	SER
1	R	394	THR
1	R	395	ILE
1	R	403	LEU
1	R	405	ILE
1	R	413	VAL
1	R	418	ASP
1	R	425	ILE
1	R	438	THR
1	R	445	ILE
1	R	447	THR
1	R	450	GLU
1	R	453	SER
1	R	462	ASN
1	R	472	LEU
1	R	473	GLN
1	R	489	THR
1	R	503	ILE
1	R	508	ILE
1	R	512	GLN
1	R	516	VAL
1	R	520	VAL

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Mol	Chain	Res	Type
1	R	521	GLN
1	R	523	SER
1	R	524	ASP
1	R	526	THR
1	R	527	LEU
1	R	535	ILE
1	R	537	GLU
1	R	543	ASP
1	R	549	ARG
1	R	555	GLU
1	R	572	LYS
1	R	580	ILE
1	R	584	ASN
1	R	591	SER
1	R	608	VAL
1	R	624	ASP
1	R	636	ILE
1	R	639	LEU
1	R	641	PHE
1	R	647	TYR
1	S	163	ASP
1	S	165	GLU
1	S	180	THR
1	S	182	GLU
1	S	183	THR
1	S	202	THR
1	S	207	LEU
1	S	209	VAL
1	S	212	SER
1	S	234	ILE
1	S	246	THR
1	S	266	PHE
1	S	270	ASP
1	S	274	THR
1	S	287	LEU
1	S	299	TYR
1	S	302	ASP
1	S	323	HIS
1	S	336	SER
1	S	342	ILE
1	S	344	LYS
1	S	348	LEU

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Mol	Chain	Res	Type
1	S	357	ASP
1	S	376	PHE
1	S	384	SER
1	S	394	THR
1	S	395	ILE
1	S	403	LEU
1	S	405	ILE
1	S	413	VAL
1	S	418	ASP
1	S	425	ILE
1	S	438	THR
1	S	445	ILE
1	S	447	THR
1	S	450	GLU
1	S	453	SER
1	S	462	ASN
1	S	472	LEU
1	S	473	GLN
1	S	489	THR
1	S	503	ILE
1	S	508	ILE
1	S	512	GLN
1	S	516	VAL
1	S	520	VAL
1	S	521	GLN
1	S	523	SER
1	S	524	ASP
1	S	526	THR
1	S	527	LEU
1	S	535	ILE
1	S	537	GLU
1	S	543	ASP
1	S	549	ARG
1	S	555	GLU
1	S	572	LYS
1	S	580	ILE
1	S	584	ASN
1	S	591	SER
1	S	608	VAL
1	S	624	ASP
1	S	636	ILE
1	S	639	LEU

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Mol	Chain	Res	Type
1	S	641	PHE
1	S	647	TYR
1	T	163	ASP
1	T	165	GLU
1	T	180	THR
1	T	182	GLU
1	T	183	THR
1	T	202	THR
1	T	207	LEU
1	T	209	VAL
1	T	212	SER
1	T	234	ILE
1	T	246	THR
1	T	266	PHE
1	T	270	ASP
1	T	274	THR
1	T	287	LEU
1	T	299	TYR
1	T	302	ASP
1	T	323	HIS
1	T	336	SER
1	T	342	ILE
1	T	344	LYS
1	T	348	LEU
1	T	357	ASP
1	T	376	PHE
1	T	384	SER
1	T	394	THR
1	T	395	ILE
1	T	403	LEU
1	T	405	ILE
1	T	413	VAL
1	T	418	ASP
1	T	425	ILE
1	T	438	THR
1	T	445	ILE
1	T	447	THR
1	T	450	GLU
1	T	453	SER
1	T	462	ASN
1	T	472	LEU
1	T	473	GLN

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Mol	Chain	Res	Type
1	T	489	THR
1	T	503	ILE
1	T	508	ILE
1	T	512	GLN
1	T	516	VAL
1	T	520	VAL
1	T	521	GLN
1	T	523	SER
1	T	524	ASP
1	T	526	THR
1	T	527	LEU
1	T	535	ILE
1	T	537	GLU
1	T	543	ASP
1	T	549	ARG
1	T	555	GLU
1	T	572	LYS
1	T	580	ILE
1	T	584	ASN
1	T	591	SER
1	T	608	VAL
1	T	624	ASP
1	T	636	ILE
1	T	639	LEU
1	T	641	PHE
1	T	647	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (290) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	173	HIS
1	A	191	GLN
1	A	244	GLN
1	A	253	HIS
1	A	297	ASN
1	A	352	ASN
1	A	397	GLN
1	A	459	ASN
1	A	462	ASN
1	A	514	ASN
1	A	521	GLN
1	A	584	ASN

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Mol	Chain	Res	Type
1	A	589	HIS
1	A	598	ASN
1	B	173	HIS
1	B	191	GLN
1	B	244	GLN
1	B	253	HIS
1	B	297	ASN
1	B	352	ASN
1	B	397	GLN
1	B	459	ASN
1	B	462	ASN
1	B	514	ASN
1	B	521	GLN
1	B	584	ASN
1	B	589	HIS
1	B	598	ASN
1	C	173	HIS
1	C	191	GLN
1	C	244	GLN
1	C	250	GLN
1	C	253	HIS
1	C	297	ASN
1	C	352	ASN
1	C	397	GLN
1	C	459	ASN
1	C	462	ASN
1	C	514	ASN
1	C	521	GLN
1	C	569	ASN
1	C	584	ASN
1	C	589	HIS
1	C	598	ASN
1	D	173	HIS
1	D	191	GLN
1	D	244	GLN
1	D	253	HIS
1	D	297	ASN
1	D	352	ASN
1	D	397	GLN
1	D	459	ASN
1	D	462	ASN
1	D	514	ASN

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Mol	Chain	Res	Type
1	D	521	GLN
1	D	584	ASN
1	D	589	HIS
1	D	598	ASN
1	E	173	HIS
1	E	191	GLN
1	E	244	GLN
1	E	253	HIS
1	E	297	ASN
1	E	352	ASN
1	E	397	GLN
1	E	459	ASN
1	E	462	ASN
1	E	514	ASN
1	E	521	GLN
1	E	569	ASN
1	E	584	ASN
1	E	589	HIS
1	E	598	ASN
1	F	173	HIS
1	F	191	GLN
1	F	244	GLN
1	F	253	HIS
1	F	297	ASN
1	F	352	ASN
1	F	397	GLN
1	F	459	ASN
1	F	462	ASN
1	F	514	ASN
1	F	521	GLN
1	F	569	ASN
1	F	584	ASN
1	F	589	HIS
1	F	598	ASN
1	G	173	HIS
1	G	191	GLN
1	G	244	GLN
1	G	253	HIS
1	G	297	ASN
1	G	352	ASN
1	G	397	GLN
1	G	459	ASN

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Mol	Chain	Res	Type
1	G	462	ASN
1	G	514	ASN
1	G	521	GLN
1	G	584	ASN
1	G	589	HIS
1	G	598	ASN
1	H	173	HIS
1	H	191	GLN
1	H	244	GLN
1	H	250	GLN
1	H	253	HIS
1	H	297	ASN
1	H	352	ASN
1	H	397	GLN
1	H	459	ASN
1	H	462	ASN
1	H	514	ASN
1	H	521	GLN
1	H	569	ASN
1	H	584	ASN
1	H	589	HIS
1	H	598	ASN
1	I	173	HIS
1	I	191	GLN
1	I	244	GLN
1	I	297	ASN
1	I	352	ASN
1	I	397	GLN
1	I	459	ASN
1	I	462	ASN
1	I	514	ASN
1	I	521	GLN
1	I	569	ASN
1	I	584	ASN
1	I	589	HIS
1	I	598	ASN
1	J	173	HIS
1	J	191	GLN
1	J	244	GLN
1	J	297	ASN
1	J	352	ASN
1	J	397	GLN

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Mol	Chain	Res	Type
1	J	459	ASN
1	J	462	ASN
1	J	514	ASN
1	J	521	GLN
1	J	569	ASN
1	J	584	ASN
1	J	589	HIS
1	J	598	ASN
1	K	173	HIS
1	K	191	GLN
1	K	244	GLN
1	K	297	ASN
1	K	352	ASN
1	K	397	GLN
1	K	459	ASN
1	K	462	ASN
1	K	514	ASN
1	K	521	GLN
1	K	584	ASN
1	K	589	HIS
1	K	598	ASN
1	L	173	HIS
1	L	191	GLN
1	L	244	GLN
1	L	297	ASN
1	L	352	ASN
1	L	397	GLN
1	L	459	ASN
1	L	462	ASN
1	L	514	ASN
1	L	521	GLN
1	L	569	ASN
1	L	584	ASN
1	L	589	HIS
1	L	598	ASN
1	M	173	HIS
1	M	191	GLN
1	M	244	GLN
1	M	253	HIS
1	M	297	ASN
1	M	352	ASN
1	M	397	GLN

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Mol	Chain	Res	Type
1	M	459	ASN
1	M	462	ASN
1	M	514	ASN
1	M	521	GLN
1	M	584	ASN
1	M	589	HIS
1	M	598	ASN
1	N	173	HIS
1	N	191	GLN
1	N	244	GLN
1	N	250	GLN
1	N	253	HIS
1	N	297	ASN
1	N	352	ASN
1	N	397	GLN
1	N	459	ASN
1	N	514	ASN
1	N	521	GLN
1	N	584	ASN
1	N	589	HIS
1	N	598	ASN
1	O	173	HIS
1	O	191	GLN
1	O	244	GLN
1	O	253	HIS
1	O	297	ASN
1	O	352	ASN
1	O	397	GLN
1	O	459	ASN
1	O	462	ASN
1	O	514	ASN
1	O	521	GLN
1	O	584	ASN
1	O	589	HIS
1	O	598	ASN
1	P	173	HIS
1	P	191	GLN
1	P	244	GLN
1	P	253	HIS
1	P	297	ASN
1	P	352	ASN
1	P	397	GLN

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Mol	Chain	Res	Type
1	P	459	ASN
1	P	462	ASN
1	P	514	ASN
1	P	521	GLN
1	P	584	ASN
1	P	589	HIS
1	P	598	ASN
1	Q	173	HIS
1	Q	191	GLN
1	Q	244	GLN
1	Q	250	GLN
1	Q	253	HIS
1	Q	297	ASN
1	Q	352	ASN
1	Q	397	GLN
1	Q	459	ASN
1	Q	462	ASN
1	Q	514	ASN
1	Q	521	GLN
1	Q	584	ASN
1	Q	589	HIS
1	Q	598	ASN
1	R	173	HIS
1	R	191	GLN
1	R	244	GLN
1	R	253	HIS
1	R	297	ASN
1	R	352	ASN
1	R	397	GLN
1	R	459	ASN
1	R	462	ASN
1	R	514	ASN
1	R	521	GLN
1	R	569	ASN
1	R	584	ASN
1	R	589	HIS
1	R	598	ASN
1	S	173	HIS
1	S	191	GLN
1	S	244	GLN
1	S	250	GLN
1	S	253	HIS

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Mol	Chain	Res	Type
1	S	297	ASN
1	S	352	ASN
1	S	397	GLN
1	S	459	ASN
1	S	462	ASN
1	S	514	ASN
1	S	521	GLN
1	S	584	ASN
1	S	589	HIS
1	S	598	ASN
1	T	173	HIS
1	T	191	GLN
1	T	244	GLN
1	T	250	GLN
1	T	253	HIS
1	T	297	ASN
1	T	352	ASN
1	T	397	GLN
1	T	459	ASN
1	T	462	ASN
1	T	514	ASN
1	T	521	GLN
1	T	569	ASN
1	T	584	ASN
1	T	589	HIS
1	T	598	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	1
1	B	1
1	C	1
1	D	1
1	E	1
1	F	1
1	G	1
1	H	1
1	I	1
1	J	1
1	K	1
1	L	1
1	M	1
1	N	1
1	O	1
1	P	1
1	Q	1
1	R	1
1	S	1
1	T	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	330:SER	C	331:MET	N	3.54
1	B	330:SER	C	331:MET	N	3.54
1	C	330:SER	C	331:MET	N	3.54
1	D	330:SER	C	331:MET	N	3.54
1	E	330:SER	C	331:MET	N	3.54
1	F	330:SER	C	331:MET	N	3.54

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	G	330:SER	C	331:MET	N	3.54
1	H	330:SER	C	331:MET	N	3.54
1	I	330:SER	C	331:MET	N	3.54
1	J	330:SER	C	331:MET	N	3.54
1	K	330:SER	C	331:MET	N	3.54
1	L	330:SER	C	331:MET	N	3.54
1	M	330:SER	C	331:MET	N	3.54
1	N	330:SER	C	331:MET	N	3.54
1	O	330:SER	C	331:MET	N	3.54
1	P	330:SER	C	331:MET	N	3.54
1	Q	330:SER	C	331:MET	N	3.54
1	R	330:SER	C	331:MET	N	3.54
1	S	330:SER	C	331:MET	N	3.54
1	T	330:SER	C	331:MET	N	3.54

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	A	502/545 (92%)	0.64	72 (14%)	6	14	95, 95, 95, 95	0
1	B	502/545 (92%)	0.64	68 (13%)	7	15	95, 95, 95, 95	0
1	C	502/545 (92%)	0.80	80 (15%)	5	13	95, 95, 95, 95	0
1	D	502/545 (92%)	0.58	73 (14%)	6	14	95, 95, 95, 95	0
1	E	502/545 (92%)	0.74	72 (14%)	6	14	95, 95, 95, 95	0
1	F	502/545 (92%)	0.65	69 (13%)	6	15	95, 95, 95, 95	0
1	G	502/545 (92%)	0.58	67 (13%)	7	15	95, 95, 95, 95	0
1	H	502/545 (92%)	0.42	52 (10%)	11	19	95, 95, 95, 95	0
1	I	502/545 (92%)	0.70	77 (15%)	5	14	95, 95, 95, 95	0
1	J	502/545 (92%)	0.58	65 (12%)	7	16	95, 95, 95, 95	0
1	K	502/545 (92%)	0.75	79 (15%)	5	13	95, 95, 95, 95	0
1	L	502/545 (92%)	0.65	73 (14%)	6	14	95, 95, 95, 95	0
1	M	502/545 (92%)	0.54	70 (13%)	6	15	95, 95, 95, 95	0
1	N	502/545 (92%)	0.75	65 (12%)	7	16	95, 95, 95, 95	0
1	O	502/545 (92%)	0.56	72 (14%)	6	14	95, 95, 95, 95	0
1	P	502/545 (92%)	0.92	82 (16%)	4	12	95, 95, 95, 95	0
1	Q	502/545 (92%)	0.64	71 (14%)	6	15	95, 95, 95, 95	0
1	R	502/545 (92%)	0.71	83 (16%)	4	12	95, 95, 95, 95	0
1	S	502/545 (92%)	0.82	69 (13%)	6	15	95, 95, 95, 95	0
1	T	502/545 (92%)	0.60	65 (12%)	7	16	95, 95, 95, 95	0
All	All	10040/10900 (92%)	0.66	1424 (14%)	6	15	95, 95, 95, 95	0

All (1424) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	S	404	GLY	31.3
1	N	492	VAL	24.2
1	P	463	PHE	20.6
1	T	273	SER	19.7
1	L	522	THR	19.4
1	L	394	THR	19.2
1	I	225	GLY	18.2
1	F	396	SER	17.9
1	S	586	GLN	17.1
1	K	517	ASN	16.7
1	B	187	ILE	15.9
1	J	380	THR	15.0
1	F	454	ALA	14.8
1	M	639	LEU	14.6
1	N	405	ILE	14.6
1	B	632	GLY	14.4
1	E	522	THR	14.1
1	S	548	VAL	13.8
1	E	429	LEU	13.6
1	G	173	HIS	13.6
1	K	443	THR	13.5
1	S	423	THR	13.3
1	C	246	THR	13.1
1	S	627	GLY	13.1
1	P	461	THR	12.9
1	P	487	ILE	12.9
1	O	244	GLN	12.8
1	F	273	SER	12.7
1	N	452	ASP	12.7
1	K	301	ASN	12.6
1	G	613	ASP	12.6
1	O	433	GLY	12.6
1	D	242	PRO	12.4
1	K	440	SER	12.1
1	I	485	ALA	11.9
1	I	406	GLY	11.9
1	F	194	GLY	11.7
1	L	249	LEU	11.7
1	T	621	ILE	11.6
1	P	615	ASN	11.6
1	P	466	MET	11.5
1	E	330	SER	11.5
1	S	621	ILE	11.4

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Mol	Chain	Res	Type	RSRZ
1	E	242	PRO	11.4
1	Q	255	LEU	11.2
1	R	399	GLY	11.1
1	P	464	LYS	11.0
1	A	245	SER	11.0
1	P	467	TYR	10.9
1	J	431	PRO	10.8
1	E	444	ASP	10.6
1	O	242	PRO	10.5
1	M	225	GLY	10.5
1	E	349	TRP	10.5
1	J	470	GLY	10.5
1	N	398	LYS	10.5
1	P	445	ILE	10.4
1	Q	369	GLN	10.4
1	S	587	ILE	10.4
1	J	469	CYS	10.4
1	M	632	GLY	10.3
1	L	407	ILE	10.3
1	E	342	ILE	10.2
1	T	248	MET	10.2
1	C	297	ASN	10.2
1	S	424	THR	10.1
1	M	427	SER	10.1
1	T	205	ALA	10.0
1	P	581	ASP	9.9
1	D	445	ILE	9.9
1	P	458	VAL	9.8
1	C	166	TRP	9.7
1	B	365	PRO	9.7
1	P	486	PHE	9.6
1	P	616	GLY	9.4
1	F	521	GLN	9.4
1	E	215	ILE	9.4
1	Q	314	THR	9.3
1	G	233	ALA	9.3
1	G	427	SER	9.3
1	Q	526	THR	9.3
1	L	396	SER	9.2
1	P	619	PHE	9.2
1	O	241	ASP	9.2
1	R	268	ILE	9.2

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Mol	Chain	Res	Type	RSRZ
1	M	226	VAL	9.1
1	B	394	THR	9.1
1	L	524	ASP	9.1
1	S	492	VAL	9.0
1	L	523	SER	9.0
1	N	602	PRO	9.0
1	A	244	GLN	9.0
1	B	631	VAL	9.0
1	C	191	GLN	8.9
1	S	342	ILE	8.8
1	M	312	VAL	8.8
1	R	522	THR	8.8
1	B	316	PRO	8.8
1	M	174	THR	8.7
1	Q	524	ASP	8.7
1	I	330	SER	8.6
1	A	166	TRP	8.6
1	E	209	VAL	8.6
1	N	497	LEU	8.6
1	K	412	ILE	8.6
1	R	174	THR	8.6
1	G	234	ILE	8.5
1	N	255	LEU	8.5
1	O	432	ALA	8.5
1	N	494	GLY	8.5
1	K	379	GLU	8.4
1	R	193	LEU	8.3
1	M	657	LEU	8.3
1	N	604	ASP	8.2
1	I	395	ILE	8.2
1	I	188	LEU	8.2
1	C	554	PRO	8.2
1	F	176	VAL	8.2
1	G	171	SER	8.1
1	Q	246	THR	8.1
1	R	415	GLY	8.1
1	Q	173	HIS	8.1
1	Q	171	SER	8.0
1	K	492	VAL	8.0
1	H	543	ASP	8.0
1	L	469	CYS	8.0
1	G	235	VAL	8.0

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Mol	Chain	Res	Type	RSRZ
1	G	443	THR	7.9
1	J	166	TRP	7.9
1	R	278	LEU	7.9
1	S	347	SER	7.8
1	E	278	LEU	7.8
1	T	390	PRO	7.8
1	A	194	GLY	7.8
1	G	232	ALA	7.8
1	L	485	ALA	7.8
1	S	503	ILE	7.7
1	K	516	VAL	7.7
1	N	522	THR	7.7
1	P	323	HIS	7.7
1	H	607	ALA	7.7
1	O	570	THR	7.6
1	G	288	VAL	7.6
1	H	249	LEU	7.6
1	N	509	ALA	7.6
1	J	254	VAL	7.6
1	H	396	SER	7.6
1	C	649	GLY	7.6
1	H	253	HIS	7.6
1	A	396	SER	7.5
1	E	233	ALA	7.5
1	H	254	VAL	7.4
1	S	403	LEU	7.4
1	E	576	VAL	7.4
1	G	287	LEU	7.4
1	P	459	ASN	7.4
1	O	243	VAL	7.3
1	E	498	GLU	7.2
1	M	311	THR	7.2
1	J	237	PRO	7.2
1	A	393	VAL	7.2
1	M	337	VAL	7.2
1	F	173	HIS	7.2
1	S	354	TYR	7.2
1	P	354	TYR	7.2
1	R	224	SER	7.1
1	B	242	PRO	7.1
1	F	434	ASP	7.1
1	C	258	ALA	7.1

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Mol	Chain	Res	Type	RSRZ
1	C	525	VAL	7.0
1	E	269	PRO	7.0
1	I	359	THR	7.0
1	L	386	PRO	7.0
1	S	255	LEU	7.0
1	P	485	ALA	7.0
1	T	204	LEU	6.9
1	H	244	GLN	6.9
1	S	447	THR	6.9
1	B	531	GLY	6.9
1	M	621	ILE	6.9
1	P	429	LEU	6.9
1	C	623	ILE	6.8
1	N	545	ASP	6.8
1	Q	185	GLY	6.8
1	G	491	THR	6.8
1	B	273	SER	6.8
1	T	245	SER	6.8
1	J	537	GLU	6.8
1	R	409	THR	6.8
1	R	552	VAL	6.8
1	P	434	ASP	6.8
1	I	242	PRO	6.8
1	T	367	VAL	6.7
1	S	308	CYS	6.7
1	T	268	ILE	6.7
1	P	308	CYS	6.7
1	N	471	ALA	6.7
1	S	491	THR	6.7
1	B	358	ILE	6.7
1	F	482	SER	6.7
1	C	552	VAL	6.6
1	A	636	ILE	6.6
1	H	258	ALA	6.6
1	D	433	GLY	6.6
1	R	435	TYR	6.6
1	E	524	ASP	6.6
1	I	239	GLY	6.6
1	G	385	THR	6.6
1	L	327	PRO	6.5
1	K	452	ASP	6.5
1	K	445	ILE	6.5

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Mol	Chain	Res	Type	RSRZ
1	O	250	GLN	6.5
1	L	323	HIS	6.5
1	F	471	ALA	6.5
1	K	456	GLU	6.5
1	M	172	PHE	6.5
1	F	395	ILE	6.5
1	T	657	LEU	6.4
1	I	176	VAL	6.4
1	S	324	LEU	6.4
1	P	622	GLY	6.4
1	N	250	GLN	6.4
1	H	339	SER	6.4
1	J	385	THR	6.4
1	C	402	LYS	6.3
1	K	324	LEU	6.3
1	I	405	ILE	6.3
1	N	434	ASP	6.3
1	S	422	ASP	6.3
1	L	409	THR	6.3
1	N	448	PRO	6.3
1	G	237	PRO	6.3
1	P	269	PRO	6.3
1	N	485	ALA	6.3
1	M	343	PRO	6.3
1	K	482	SER	6.3
1	N	495	ASN	6.3
1	B	572	LYS	6.2
1	G	404	GLY	6.2
1	N	433	GLY	6.2
1	N	605	SER	6.2
1	K	242	PRO	6.2
1	I	224	SER	6.2
1	K	463	PHE	6.2
1	R	412	ILE	6.2
1	J	253	HIS	6.2
1	I	414	PRO	6.2
1	T	191	GLN	6.2
1	N	650	ILE	6.2
1	L	408	ALA	6.2
1	M	620	ASP	6.2
1	Q	195	PRO	6.1
1	I	178	TRP	6.1

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Mol	Chain	Res	Type	RSRZ
1	E	191	GLN	6.1
1	K	646	SER	6.1
1	L	330	SER	6.1
1	D	401	GLU	6.1
1	S	463	PHE	6.1
1	F	245	SER	6.1
1	Q	292	TYR	6.1
1	L	626	ASP	6.1
1	I	488	THR	6.1
1	K	629	SER	6.1
1	C	381	ALA	6.0
1	D	175	SER	6.0
1	P	347	SER	6.0
1	F	316	PRO	6.0
1	P	617	SER	6.0
1	D	519	ASP	6.0
1	K	302	ASP	6.0
1	O	266	PHE	6.0
1	E	268	ILE	6.0
1	K	519	ASP	6.0
1	T	541	GLY	6.0
1	O	571	VAL	6.0
1	K	446	THR	5.9
1	T	297	ASN	5.9
1	K	453	SER	5.9
1	S	547	VAL	5.9
1	J	488	THR	5.9
1	E	445	ILE	5.9
1	R	242	PRO	5.9
1	B	349	TRP	5.9
1	A	657	LEU	5.9
1	E	416	ILE	5.9
1	F	637	GLY	5.9
1	S	505	PRO	5.9
1	C	401	GLU	5.9
1	P	621	ILE	5.9
1	C	524	ASP	5.8
1	K	470	GLY	5.8
1	O	325	LEU	5.8
1	A	650	ILE	5.8
1	C	546	LYS	5.8
1	Q	283	ASP	5.8

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Mol	Chain	Res	Type	RSRZ
1	M	330	SER	5.8
1	H	215	ILE	5.8
1	G	269	PRO	5.7
1	J	215	ILE	5.7
1	R	192	ALA	5.7
1	T	600	LEU	5.7
1	J	240	VAL	5.7
1	F	638	LYS	5.7
1	H	355	TRP	5.7
1	I	633	VAL	5.7
1	F	452	ASP	5.7
1	C	366	PHE	5.7
1	D	166	TRP	5.7
1	M	228	GLY	5.7
1	D	251	TYR	5.7
1	P	271	LEU	5.7
1	P	400	GLY	5.6
1	M	175	SER	5.6
1	A	204	LEU	5.6
1	Q	198	ASN	5.6
1	H	621	ILE	5.6
1	S	425	ILE	5.6
1	S	325	LEU	5.6
1	I	632	GLY	5.6
1	A	518	ARG	5.6
1	C	470	GLY	5.6
1	O	485	ALA	5.5
1	K	551	SER	5.5
1	O	625	SER	5.5
1	M	342	ILE	5.5
1	K	376	PHE	5.5
1	D	192	ALA	5.5
1	D	616	GLY	5.5
1	F	255	LEU	5.5
1	T	192	ALA	5.5
1	D	330	SER	5.5
1	N	585	SER	5.5
1	D	601	LEU	5.5
1	T	303	ALA	5.5
1	H	619	PHE	5.5
1	I	493	GLU	5.5
1	R	498	GLU	5.5

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Mol	Chain	Res	Type	RSRZ
1	D	220	SER	5.4
1	E	415	GLY	5.4
1	K	241	ASP	5.4
1	M	658	ALA	5.4
1	F	324	LEU	5.4
1	Q	447	THR	5.4
1	I	196	LEU	5.4
1	Q	266	PHE	5.4
1	B	188	LEU	5.4
1	C	504	ASN	5.4
1	Q	215	ILE	5.4
1	C	303	ALA	5.4
1	I	404	GLY	5.4
1	P	614	ALA	5.4
1	S	176	VAL	5.3
1	B	459	ASN	5.3
1	J	204	LEU	5.3
1	G	308	CYS	5.3
1	H	233	ALA	5.3
1	I	619	PHE	5.3
1	M	249	LEU	5.3
1	H	298	PRO	5.3
1	I	175	SER	5.3
1	R	288	VAL	5.3
1	H	202	THR	5.3
1	T	376	PHE	5.3
1	L	387	ARG	5.3
1	K	582	VAL	5.3
1	C	215	ILE	5.3
1	E	314	THR	5.3
1	C	455	ASN	5.3
1	O	227	PHE	5.3
1	L	329	GLY	5.2
1	D	618	TRP	5.2
1	P	447	THR	5.2
1	J	432	ALA	5.2
1	S	590	THR	5.2
1	D	498	GLU	5.2
1	L	395	ILE	5.2
1	T	215	ILE	5.2
1	Q	373	HIS	5.2
1	F	310	VAL	5.2

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Mol	Chain	Res	Type	RSRZ
1	I	634	SER	5.2
1	B	232	ALA	5.2
1	R	397	GLN	5.2
1	Q	393	VAL	5.2
1	C	257	ASP	5.2
1	B	204	LEU	5.1
1	D	255	LEU	5.1
1	D	504	ASN	5.1
1	L	392	THR	5.1
1	D	524	ASP	5.1
1	S	609	TYR	5.1
1	R	396	SER	5.1
1	A	619	PHE	5.1
1	T	233	ALA	5.1
1	E	232	ALA	5.0
1	P	394	THR	5.0
1	F	576	VAL	5.0
1	C	376	PHE	5.0
1	N	196	LEU	5.0
1	T	246	THR	5.0
1	L	255	LEU	5.0
1	E	384	SER	5.0
1	O	238	PRO	5.0
1	D	530	LEU	5.0
1	C	506	THR	5.0
1	J	238	PRO	5.0
1	T	299	TYR	5.0
1	B	342	ILE	4.9
1	J	414	PRO	4.9
1	G	416	ILE	4.9
1	M	173	HIS	4.9
1	R	434	ASP	4.9
1	A	637	GLY	4.9
1	D	246	THR	4.9
1	L	189	PHE	4.9
1	C	660	ASN	4.9
1	G	314	THR	4.9
1	A	217	VAL	4.9
1	C	273	SER	4.9
1	C	505	PRO	4.9
1	Q	201	LEU	4.9
1	C	249	LEU	4.8

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Mol	Chain	Res	Type	RSRZ
1	D	249	LEU	4.8
1	H	242	PRO	4.8
1	Q	497	LEU	4.8
1	R	287	LEU	4.8
1	K	636	ILE	4.8
1	N	526	THR	4.8
1	C	426	PRO	4.8
1	T	540	ILE	4.8
1	I	509	ALA	4.8
1	B	567	TYR	4.8
1	B	289	ILE	4.8
1	I	303	ALA	4.8
1	O	292	TYR	4.8
1	A	242	PRO	4.8
1	N	619	PHE	4.8
1	P	511	PHE	4.8
1	J	542	ALA	4.8
1	A	175	SER	4.7
1	P	174	THR	4.7
1	C	541	GLY	4.7
1	E	354	TYR	4.7
1	Q	296	ILE	4.7
1	Q	611	ILE	4.7
1	G	406	GLY	4.7
1	M	227	PHE	4.7
1	K	479	LYS	4.7
1	E	559	ARG	4.7
1	H	541	GLY	4.7
1	G	437	VAL	4.7
1	K	273	SER	4.7
1	M	429	LEU	4.7
1	D	266	PHE	4.7
1	B	406	GLY	4.6
1	D	517	ASN	4.6
1	N	553	LEU	4.6
1	I	232	ALA	4.6
1	E	312	VAL	4.6
1	G	264	VAL	4.6
1	S	209	VAL	4.6
1	E	287	LEU	4.6
1	A	205	ALA	4.6
1	G	289	ILE	4.6

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Mol	Chain	Res	Type	RSRZ
1	T	594	LEU	4.6
1	F	196	LEU	4.6
1	S	643	LEU	4.6
1	G	217	VAL	4.6
1	F	308	CYS	4.6
1	S	506	THR	4.6
1	N	451	TYR	4.6
1	B	416	ILE	4.6
1	J	289	ILE	4.6
1	R	225	GLY	4.6
1	E	173	HIS	4.6
1	M	617	SER	4.6
1	R	273	SER	4.6
1	M	307	GLY	4.6
1	R	366	PHE	4.6
1	T	659	SER	4.6
1	M	613	ASP	4.5
1	C	527	LEU	4.5
1	I	635	ASN	4.5
1	H	199	PRO	4.5
1	L	398	LYS	4.5
1	N	635	ASN	4.5
1	B	582	VAL	4.5
1	J	412	ILE	4.5
1	K	497	LEU	4.5
1	O	246	THR	4.5
1	I	385	THR	4.5
1	L	434	ASP	4.5
1	B	315	LYS	4.5
1	P	348	LEU	4.5
1	G	236	VAL	4.5
1	J	239	GLY	4.5
1	N	652	LEU	4.5
1	P	524	ASP	4.5
1	G	318	SER	4.5
1	Q	472	LEU	4.4
1	T	526	THR	4.4
1	J	301	ASN	4.4
1	K	529	LEU	4.4
1	P	426	PRO	4.4
1	Q	178	TRP	4.4
1	Q	197	LEU	4.4

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Mol	Chain	Res	Type	RSRZ
1	H	224	SER	4.4
1	M	474	ARG	4.4
1	E	571	VAL	4.4
1	R	342	ILE	4.4
1	Q	256	PHE	4.4
1	S	511	PHE	4.4
1	C	659	SER	4.4
1	H	644	SER	4.4
1	A	188	LEU	4.4
1	F	639	LEU	4.4
1	K	499	PRO	4.4
1	J	545	ASP	4.4
1	D	568	LYS	4.4
1	T	249	LEU	4.4
1	B	256	PHE	4.4
1	Q	403	LEU	4.4
1	L	478	ASP	4.4
1	G	307	GLY	4.4
1	K	623	ILE	4.4
1	G	648	MET	4.4
1	E	385	THR	4.4
1	O	342	ILE	4.4
1	K	530	LEU	4.4
1	Q	525	VAL	4.3
1	E	241	ASP	4.3
1	K	235	VAL	4.3
1	G	166	TRP	4.3
1	J	576	VAL	4.3
1	F	376	PHE	4.3
1	O	196	LEU	4.3
1	R	271	LEU	4.3
1	S	646	SER	4.3
1	D	254	VAL	4.3
1	L	287	LEU	4.3
1	P	491	THR	4.3
1	D	432	ALA	4.3
1	J	302	ASP	4.3
1	P	283	ASP	4.3
1	K	325	LEU	4.3
1	Q	536	GLY	4.3
1	K	518	ARG	4.3
1	J	635	ASN	4.3

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Mol	Chain	Res	Type	RSRZ
1	L	292	TYR	4.2
1	R	194	GLY	4.2
1	B	460	ASN	4.2
1	I	592	ARG	4.2
1	E	490	ALA	4.2
1	R	285	THR	4.2
1	A	426	PRO	4.2
1	H	166	TRP	4.2
1	M	450	GLU	4.2
1	M	232	ALA	4.2
1	M	387	ARG	4.2
1	R	380	THR	4.2
1	G	255	LEU	4.2
1	P	462	ASN	4.2
1	I	394	THR	4.2
1	S	489	THR	4.2
1	I	386	PRO	4.1
1	Q	446	THR	4.1
1	K	296	ILE	4.1
1	M	559	ARG	4.1
1	L	511	PHE	4.1
1	A	404	GLY	4.1
1	J	198	ASN	4.1
1	E	244	GLN	4.1
1	E	497	LEU	4.1
1	G	407	ILE	4.1
1	Q	315	LYS	4.1
1	J	381	ALA	4.1
1	K	414	PRO	4.1
1	P	640	GLU	4.1
1	L	385	THR	4.1
1	J	241	ASP	4.0
1	C	407	ILE	4.0
1	O	176	VAL	4.0
1	E	219	PHE	4.0
1	S	355	TRP	4.0
1	F	615	ASN	4.0
1	N	254	VAL	4.0
1	E	189	PHE	4.0
1	D	311	THR	4.0
1	R	246	THR	4.0
1	G	186	LYS	4.0

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Mol	Chain	Res	Type	RSRZ
1	A	347	SER	4.0
1	F	197	LEU	4.0
1	S	282	THR	4.0
1	A	649	GLY	4.0
1	R	517	ASN	4.0
1	S	396	SER	4.0
1	E	350	ILE	4.0
1	Q	267	THR	4.0
1	F	346	SER	4.0
1	G	639	LEU	4.0
1	L	271	LEU	4.0
1	A	395	ILE	4.0
1	T	262	GLU	3.9
1	Q	395	ILE	3.9
1	J	249	LEU	3.9
1	A	567	TYR	3.9
1	E	234	ILE	3.9
1	E	205	ALA	3.9
1	F	486	PHE	3.9
1	K	635	ASN	3.9
1	N	219	PHE	3.9
1	P	436	ALA	3.9
1	S	348	LEU	3.9
1	G	425	ILE	3.9
1	K	333	THR	3.9
1	B	511	PHE	3.9
1	O	217	VAL	3.9
1	F	455	ASN	3.9
1	R	541	GLY	3.9
1	F	203	HIS	3.9
1	H	232	ALA	3.9
1	K	471	ALA	3.9
1	O	255	LEU	3.9
1	E	464	LYS	3.9
1	J	487	ILE	3.9
1	M	289	ILE	3.9
1	P	346	SER	3.9
1	L	265	VAL	3.9
1	L	475	ALA	3.9
1	A	615	ASN	3.9
1	M	615	ASN	3.9
1	H	248	MET	3.8

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Mol	Chain	Res	Type	RSRZ
1	H	186	LYS	3.8
1	T	196	LEU	3.8
1	C	598	ASN	3.8
1	I	189	PHE	3.8
1	C	245	SER	3.8
1	H	282	THR	3.8
1	H	491	THR	3.8
1	P	397	GLN	3.8
1	E	363	ILE	3.8
1	O	178	TRP	3.8
1	O	650	ILE	3.8
1	C	433	GLY	3.8
1	B	413	VAL	3.8
1	C	619	PHE	3.8
1	C	165	GLU	3.8
1	S	551	SER	3.8
1	D	476	TRP	3.8
1	F	287	LEU	3.8
1	A	504	ASN	3.8
1	L	555	GLU	3.8
1	Q	396	SER	3.8
1	M	522	THR	3.8
1	Q	219	PHE	3.8
1	A	620	ASP	3.8
1	I	258	ALA	3.8
1	O	607	ALA	3.8
1	T	177	ASN	3.8
1	A	439	THR	3.8
1	T	385	THR	3.8
1	L	525	VAL	3.8
1	A	517	ASN	3.8
1	I	387	ARG	3.8
1	M	659	SER	3.8
1	N	400	GLY	3.8
1	R	195	PRO	3.8
1	L	484	THR	3.8
1	C	396	SER	3.7
1	I	166	TRP	3.7
1	J	619	PHE	3.7
1	S	493	GLU	3.7
1	G	387	ARG	3.7
1	D	402	LYS	3.7

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Mol	Chain	Res	Type	RSRZ
1	D	264	VAL	3.7
1	E	577	ILE	3.7
1	Q	183	THR	3.7
1	M	219	PHE	3.7
1	P	576	VAL	3.7
1	C	287	LEU	3.7
1	M	215	ILE	3.7
1	N	621	ILE	3.7
1	L	282	THR	3.7
1	A	658	ALA	3.7
1	I	282	THR	3.7
1	B	643	LEU	3.7
1	T	328	PRO	3.7
1	G	306	SER	3.6
1	R	537	GLU	3.6
1	D	512	GLN	3.6
1	G	519	ASP	3.6
1	G	196	LEU	3.6
1	R	280	SER	3.6
1	T	631	VAL	3.6
1	J	324	LEU	3.6
1	A	423	THR	3.6
1	P	639	LEU	3.6
1	J	440	SER	3.6
1	C	430	THR	3.6
1	R	282	THR	3.6
1	G	498	GLU	3.6
1	O	231	LEU	3.6
1	R	201	LEU	3.6
1	R	611	ILE	3.6
1	F	204	LEU	3.6
1	Q	166	TRP	3.6
1	G	621	ILE	3.6
1	A	339	SER	3.6
1	I	220	SER	3.6
1	N	462	ASN	3.6
1	O	341	LEU	3.6
1	O	267	THR	3.6
1	A	268	ILE	3.6
1	B	636	ILE	3.6
1	I	250	GLN	3.6
1	O	248	MET	3.5

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Mol	Chain	Res	Type	RSRZ
1	P	465	SER	3.5
1	T	234	ILE	3.5
1	H	485	ALA	3.5
1	I	302	ASP	3.5
1	R	598	ASN	3.5
1	R	615	ASN	3.5
1	M	503	ILE	3.5
1	S	350	ILE	3.5
1	N	527	LEU	3.5
1	R	226	VAL	3.5
1	A	546	LYS	3.5
1	D	232	ALA	3.5
1	I	292	TYR	3.5
1	F	478	ASP	3.5
1	A	195	PRO	3.5
1	E	386	PRO	3.5
1	B	575	TYR	3.5
1	H	342	ILE	3.5
1	D	204	LEU	3.5
1	K	295	LEU	3.5
1	Q	527	LEU	3.5
1	G	172	PHE	3.5
1	J	169	PHE	3.5
1	G	298	PRO	3.5
1	I	190	LYS	3.5
1	C	432	ALA	3.5
1	C	319	ASP	3.5
1	D	219	PHE	3.5
1	B	469	CYS	3.5
1	R	602	PRO	3.5
1	L	325	LEU	3.4
1	H	565	ILE	3.4
1	L	623	ILE	3.4
1	N	426	PRO	3.4
1	N	504	ASN	3.4
1	T	282	THR	3.4
1	G	204	LEU	3.4
1	E	217	VAL	3.4
1	S	631	VAL	3.4
1	K	245	SER	3.4
1	L	246	THR	3.4
1	P	533	THR	3.4

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Mol	Chain	Res	Type	RSRZ
1	A	406	GLY	3.4
1	L	502	VAL	3.4
1	S	166	TRP	3.4
1	A	412	ILE	3.4
1	C	274	THR	3.4
1	Q	619	PHE	3.4
1	I	489	THR	3.4
1	N	491	THR	3.4
1	M	348	LEU	3.4
1	S	497	LEU	3.4
1	T	658	ALA	3.4
1	N	269	PRO	3.4
1	P	238	PRO	3.4
1	J	650	ILE	3.4
1	B	166	TRP	3.4
1	D	173	HIS	3.4
1	I	337	VAL	3.4
1	N	217	VAL	3.4
1	P	623	ILE	3.4
1	B	645	ALA	3.3
1	K	166	TRP	3.3
1	D	292	TYR	3.3
1	H	241	ASP	3.3
1	R	553	LEU	3.3
1	H	496	ASN	3.3
1	M	648	MET	3.3
1	F	527	LEU	3.3
1	E	346	SER	3.3
1	B	438	THR	3.3
1	L	256	PHE	3.3
1	K	571	VAL	3.3
1	N	510	VAL	3.3
1	H	407	ILE	3.3
1	Q	480	LYS	3.3
1	L	459	ASN	3.3
1	Q	217	VAL	3.3
1	S	201	LEU	3.3
1	D	244	GLN	3.3
1	E	602	PRO	3.3
1	F	271	LEU	3.3
1	G	278	LEU	3.3
1	K	196	LEU	3.3

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Mol	Chain	Res	Type	RSRZ
1	Q	188	LEU	3.3
1	H	187	ILE	3.3
1	D	484	THR	3.3
1	J	199	PRO	3.3
1	I	495	ASN	3.3
1	M	562	ASN	3.3
1	N	537	GLU	3.3
1	B	471	ALA	3.3
1	I	559	ARG	3.3
1	J	485	ALA	3.3
1	M	592	ARG	3.3
1	R	312	VAL	3.3
1	R	289	ILE	3.3
1	S	628	PHE	3.2
1	A	327	PRO	3.2
1	F	617	SER	3.2
1	P	488	THR	3.2
1	A	345	SER	3.2
1	D	617	SER	3.2
1	E	245	SER	3.2
1	O	202	THR	3.2
1	G	271	LEU	3.2
1	R	544	ARG	3.2
1	I	638	LYS	3.2
1	S	567	TYR	3.2
1	H	223	GLY	3.2
1	I	283	ASP	3.2
1	G	394	THR	3.2
1	L	625	SER	3.2
1	N	394	THR	3.2
1	S	488	THR	3.2
1	P	643	LEU	3.2
1	I	490	ALA	3.2
1	A	266	PHE	3.2
1	J	376	PHE	3.2
1	O	282	THR	3.2
1	P	498	GLU	3.2
1	Q	268	ILE	3.2
1	R	608	VAL	3.2
1	T	620	ASP	3.2
1	A	246	THR	3.2
1	B	644	SER	3.2

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Mol	Chain	Res	Type	RSRZ
1	D	314	THR	3.2
1	D	440	SER	3.2
1	N	161	SER	3.2
1	J	479	LYS	3.2
1	R	428	LYS	3.2
1	G	383	TRP	3.2
1	O	649	GLY	3.2
1	E	248	MET	3.2
1	B	380	THR	3.1
1	E	394	THR	3.1
1	A	255	LEU	3.1
1	D	615	ASN	3.1
1	F	238	PRO	3.1
1	G	426	PRO	3.1
1	H	312	VAL	3.1
1	N	364	ARG	3.1
1	I	231	LEU	3.1
1	K	278	LEU	3.1
1	D	198	ASN	3.1
1	Q	456	GLU	3.1
1	B	260	GLN	3.1
1	Q	245	SER	3.1
1	R	319	ASP	3.1
1	T	366	PHE	3.1
1	I	505	PRO	3.1
1	G	405	ILE	3.1
1	G	266	PHE	3.1
1	D	265	VAL	3.1
1	F	195	PRO	3.1
1	K	195	PRO	3.1
1	P	609	TYR	3.1
1	T	302	ASP	3.1
1	A	215	ILE	3.1
1	C	268	ILE	3.1
1	D	645	ALA	3.1
1	F	621	ILE	3.1
1	H	611	ILE	3.1
1	N	396	SER	3.1
1	C	279	MET	3.1
1	O	187	ILE	3.1
1	O	611	ILE	3.1
1	T	426	PRO	3.0

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Mol	Chain	Res	Type	RSRZ
1	O	409	THR	3.0
1	O	600	LEU	3.0
1	J	528	ALA	3.0
1	T	178	TRP	3.0
1	Q	194	GLY	3.0
1	D	324	LEU	3.0
1	L	174	THR	3.0
1	P	444	ASP	3.0
1	J	266	PHE	3.0
1	C	190	LYS	3.0
1	J	428	LYS	3.0
1	F	328	PRO	3.0
1	O	165	GLU	3.0
1	K	434	ASP	3.0
1	B	308	CYS	3.0
1	K	201	LEU	3.0
1	L	348	LEU	3.0
1	H	622	GLY	3.0
1	R	379	GLU	3.0
1	Q	370	ALA	3.0
1	P	452	ASP	3.0
1	Q	481	ILE	3.0
1	C	421	PRO	3.0
1	G	219	PHE	3.0
1	I	344	LYS	3.0
1	P	217	VAL	3.0
1	G	268	ILE	3.0
1	J	621	ILE	3.0
1	M	196	LEU	3.0
1	F	292	TYR	3.0
1	Q	316	PRO	3.0
1	C	543	ASP	3.0
1	F	306	SER	3.0
1	C	242	PRO	3.0
1	I	554	PRO	3.0
1	A	584	ASN	3.0
1	A	219	PHE	3.0
1	M	258	ALA	3.0
1	M	619	PHE	3.0
1	Q	168	ALA	3.0
1	M	656	ARG	3.0
1	T	503	ILE	2.9

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Mol	Chain	Res	Type	RSRZ
1	E	325	LEU	2.9
1	T	197	LEU	2.9
1	A	340	ASP	2.9
1	G	174	THR	2.9
1	H	302	ASP	2.9
1	L	294	ASP	2.9
1	J	341	LEU	2.9
1	P	345	SER	2.9
1	S	345	SER	2.9
1	T	534	GLY	2.9
1	S	221	ILE	2.9
1	A	172	PHE	2.9
1	C	471	ALA	2.9
1	D	201	LEU	2.9
1	I	332	LEU	2.9
1	I	348	LEU	2.9
1	D	480	LYS	2.9
1	C	194	GLY	2.9
1	F	256	PHE	2.9
1	M	199	PRO	2.9
1	P	359	THR	2.9
1	K	648	MET	2.9
1	R	165	GLU	2.9
1	C	367	VAL	2.9
1	D	236	VAL	2.9
1	G	323	HIS	2.9
1	G	619	PHE	2.9
1	C	329	GLY	2.9
1	N	639	LEU	2.9
1	I	520	VAL	2.9
1	R	310	VAL	2.9
1	K	461	THR	2.9
1	F	315	LYS	2.9
1	B	366	PHE	2.9
1	O	228	GLY	2.9
1	Q	291	ILE	2.8
1	D	248	MET	2.8
1	J	273	SER	2.8
1	O	434	ASP	2.8
1	K	552	VAL	2.8
1	Q	621	ILE	2.8
1	J	607	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
1	G	197	LEU	2.8
1	M	324	LEU	2.8
1	K	624	ASP	2.8
1	B	382	GLY	2.8
1	C	235	VAL	2.8
1	J	611	ILE	2.8
1	T	550	ILE	2.8
1	G	290	MET	2.8
1	N	253	HIS	2.8
1	O	256	PHE	2.8
1	C	650	ILE	2.8
1	L	393	VAL	2.8
1	P	262	GLU	2.8
1	R	601	LEU	2.8
1	I	240	VAL	2.8
1	I	310	VAL	2.8
1	L	456	GLU	2.8
1	S	574	GLY	2.8
1	F	283	ASP	2.8
1	B	542	ALA	2.8
1	D	505	PRO	2.8
1	B	278	LEU	2.8
1	C	196	LEU	2.8
1	N	324	LEU	2.8
1	C	320	PHE	2.8
1	R	583	PHE	2.8
1	F	347	SER	2.8
1	S	591	SER	2.8
1	E	192	ALA	2.8
1	P	421	PRO	2.8
1	S	626	ASP	2.8
1	H	231	LEU	2.8
1	T	368	PHE	2.8
1	A	289	ILE	2.8
1	N	576	VAL	2.8
1	P	433	GLY	2.8
1	M	420	TRP	2.8
1	A	354	TYR	2.8
1	N	247	SER	2.8
1	N	314	THR	2.8
1	B	360	ASP	2.8
1	N	583	PHE	2.8

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Mol	Chain	Res	Type	RSRZ
1	E	405	ILE	2.7
1	H	367	VAL	2.7
1	K	243	VAL	2.7
1	O	495	ASN	2.7
1	F	175	SER	2.7
1	K	282	THR	2.7
1	M	282	THR	2.7
1	Q	184	GLN	2.7
1	N	453	SER	2.7
1	O	247	SER	2.7
1	T	209	VAL	2.7
1	G	225	GLY	2.7
1	M	308	CYS	2.7
1	A	467	TYR	2.7
1	B	262	GLU	2.7
1	L	273	SER	2.7
1	R	330	SER	2.7
1	F	407	ILE	2.7
1	R	502	VAL	2.7
1	M	607	ALA	2.7
1	L	268	ILE	2.7
1	L	487	ILE	2.7
1	P	181	SER	2.7
1	L	638	LYS	2.7
1	H	545	ASP	2.7
1	L	293	ASN	2.7
1	B	539	ALA	2.7
1	L	173	HIS	2.7
1	M	386	PRO	2.7
1	L	397	GLN	2.7
1	I	578	ARG	2.7
1	A	202	THR	2.7
1	D	430	THR	2.7
1	S	585	SER	2.7
1	B	637	GLY	2.7
1	P	534	GLY	2.7
1	R	204	LEU	2.7
1	E	560	GLY	2.7
1	R	574	GLY	2.7
1	C	604	ASP	2.7
1	P	549	ARG	2.7
1	R	413	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
1	O	207	LEU	2.7
1	L	285	THR	2.7
1	N	404	GLY	2.7
1	I	641	PHE	2.7
1	F	342	ILE	2.6
1	H	268	ILE	2.6
1	P	611	ILE	2.6
1	R	166	TRP	2.6
1	T	217	VAL	2.6
1	D	462	ASN	2.6
1	K	204	LEU	2.6
1	B	359	THR	2.6
1	I	174	THR	2.6
1	O	619	PHE	2.6
1	C	558	ALA	2.6
1	R	523	SER	2.6
1	B	452	ASP	2.6
1	C	217	VAL	2.6
1	L	474	ARG	2.6
1	M	204	LEU	2.6
1	N	505	PRO	2.6
1	T	341	LEU	2.6
1	Q	177	ASN	2.6
1	D	191	GLN	2.6
1	D	361	PHE	2.6
1	F	534	GLY	2.6
1	B	447	THR	2.6
1	C	551	SER	2.6
1	D	306	SER	2.6
1	H	629	SER	2.6
1	Q	662	ARG	2.6
1	S	310	VAL	2.6
1	T	547	VAL	2.6
1	I	316	PRO	2.6
1	F	268	ILE	2.6
1	I	611	ILE	2.6
1	J	168	ALA	2.6
1	L	342	ILE	2.6
1	E	333	THR	2.6
1	D	529	LEU	2.6
1	H	435	TYR	2.6
1	K	247	SER	2.6

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Mol	Chain	Res	Type	RSRZ
1	K	354	TYR	2.6
1	H	642	PRO	2.6
1	T	238	PRO	2.6
1	D	256	PHE	2.6
1	D	612	ILE	2.6
1	K	413	VAL	2.6
1	O	510	VAL	2.6
1	P	520	VAL	2.6
1	F	166	TRP	2.6
1	L	452	ASP	2.6
1	A	165	GLU	2.6
1	O	651	GLN	2.6
1	R	250	GLN	2.6
1	N	363	ILE	2.6
1	O	296	ILE	2.6
1	R	400	GLY	2.6
1	A	300	ALA	2.6
1	C	314	THR	2.6
1	F	601	LEU	2.6
1	I	643	LEU	2.6
1	O	226	VAL	2.6
1	S	217	VAL	2.6
1	K	451	TYR	2.6
1	J	484	THR	2.6
1	K	246	THR	2.6
1	T	506	THR	2.6
1	C	219	PHE	2.5
1	N	486	PHE	2.5
1	L	253	HIS	2.5
1	F	278	LEU	2.5
1	A	466	MET	2.5
1	R	455	ASN	2.5
1	P	423	THR	2.5
1	T	590	THR	2.5
1	B	271	LEU	2.5
1	G	396	SER	2.5
1	Q	312	VAL	2.5
1	Q	513	ASP	2.5
1	Q	230	LYS	2.5
1	T	227	PHE	2.5
1	A	337	VAL	2.5
1	M	217	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
1	M	622	GLY	2.5
1	P	427	SER	2.5
1	Q	399	GLY	2.5
1	M	241	ASP	2.5
1	I	504	ASN	2.5
1	J	398	LYS	2.5
1	J	361	PHE	2.5
1	O	504	ASN	2.5
1	A	656	ARG	2.5
1	N	362	VAL	2.5
1	B	551	SER	2.5
1	G	408	ALA	2.5
1	R	621	ILE	2.5
1	I	259	ARG	2.5
1	T	592	ARG	2.5
1	B	556	THR	2.5
1	E	489	THR	2.5
1	F	430	THR	2.5
1	I	306	SER	2.5
1	K	396	SER	2.5
1	N	215	ILE	2.5
1	S	400	GLY	2.5
1	Q	308	CYS	2.5
1	R	538	GLU	2.5
1	E	337	VAL	2.5
1	P	166	TRP	2.5
1	P	239	GLY	2.5
1	P	460	ASN	2.5
1	S	349	TRP	2.5
1	N	192	ALA	2.5
1	O	638	LYS	2.5
1	R	219	PHE	2.4
1	B	571	VAL	2.4
1	C	310	VAL	2.4
1	F	265	VAL	2.4
1	L	217	VAL	2.4
1	N	490	ALA	2.4
1	C	256	PHE	2.4
1	A	333	THR	2.4
1	I	623	ILE	2.4
1	I	650	ILE	2.4
1	S	405	ILE	2.4

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Mol	Chain	Res	Type	RSRZ
1	O	397	GLN	2.4
1	F	223	GLY	2.4
1	L	476	TRP	2.4
1	S	204	LEU	2.4
1	A	342	ILE	2.4
1	H	334	HIS	2.4
1	L	234	ILE	2.4
1	J	282	THR	2.4
1	A	633	VAL	2.4
1	T	521	GLN	2.4
1	O	541	GLY	2.4
1	B	189	PHE	2.4
1	B	395	ILE	2.4
1	D	495	ASN	2.4
1	O	612	ILE	2.4
1	D	502	VAL	2.4
1	R	217	VAL	2.4
1	M	380	THR	2.4
1	R	408	ALA	2.4
1	E	266	PHE	2.4
1	F	524	ASP	2.4
1	I	486	PHE	2.4
1	J	405	ILE	2.4
1	P	342	ILE	2.4
1	D	515	HIS	2.4
1	K	315	LYS	2.4
1	M	242	PRO	2.4
1	P	642	PRO	2.4
1	T	242	PRO	2.4
1	T	369	GLN	2.4
1	H	204	LEU	2.4
1	E	534	GLY	2.4
1	I	305	SER	2.4
1	Q	231	LEU	2.4
1	T	539	ALA	2.4
1	D	309	ILE	2.4
1	F	215	ILE	2.4
1	P	357	ASP	2.4
1	P	613	ASP	2.4
1	P	620	ASP	2.4
1	T	253	HIS	2.4
1	O	572	LYS	2.4

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Mol	Chain	Res	Type	RSRZ
1	T	586	GLN	2.4
1	Q	551	SER	2.4
1	A	176	VAL	2.4
1	C	576	VAL	2.4
1	E	310	VAL	2.4
1	G	254	VAL	2.4
1	L	312	VAL	2.4
1	M	519	ASP	2.4
1	R	410	ASP	2.4
1	B	565	ILE	2.3
1	D	233	ALA	2.3
1	E	172	PHE	2.3
1	O	259	ARG	2.3
1	P	312	VAL	2.3
1	S	552	VAL	2.3
1	C	648	MET	2.3
1	K	643	LEU	2.3
1	D	307	GLY	2.3
1	R	561	GLY	2.3
1	C	621	ILE	2.3
1	D	444	ASP	2.3
1	R	241	ASP	2.3
1	F	249	LEU	2.3
1	P	422	ASP	2.3
1	E	296	ILE	2.3
1	F	221	ILE	2.3
1	J	574	GLY	2.3
1	M	268	ILE	2.3
1	M	304	ASN	2.3
1	D	571	VAL	2.3
1	O	186	LYS	2.3
1	C	292	TYR	2.3
1	O	339	SER	2.3
1	K	361	PHE	2.3
1	M	189	PHE	2.3
1	B	412	ILE	2.3
1	H	448	PRO	2.3
1	E	516	VAL	2.3
1	N	341	LEU	2.3
1	O	262	GLU	2.3
1	O	264	VAL	2.3
1	C	231	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	R	656	ARG	2.3
1	B	384	SER	2.3
1	K	342	ILE	2.3
1	P	536	GLY	2.3
1	K	300	ALA	2.3
1	P	315	LYS	2.3
1	P	607	ALA	2.3
1	S	402	LYS	2.3
1	G	389	ARG	2.3
1	R	648	MET	2.3
1	A	660	ASN	2.3
1	J	219	PHE	2.3
1	P	446	THR	2.3
1	J	421	PRO	2.3
1	J	603	PRO	2.3
1	K	238	PRO	2.3
1	T	437	VAL	2.3
1	D	518	ARG	2.3
1	S	648	MET	2.3
1	L	521	GLN	2.3
1	A	506	THR	2.2
1	C	550	ILE	2.2
1	A	386	PRO	2.2
1	A	398	LYS	2.2
1	R	559	ARG	2.2
1	B	583	PHE	2.2
1	P	350	ILE	2.2
1	F	406	GLY	2.2
1	K	239	GLY	2.2
1	B	373	HIS	2.2
1	J	323	HIS	2.2
1	M	624	ASP	2.2
1	O	354	TYR	2.2
1	E	197	LEU	2.2
1	A	316	PRO	2.2
1	B	443	THR	2.2
1	B	536	GLY	2.2
1	F	590	THR	2.2
1	O	426	PRO	2.2
1	Q	330	SER	2.2
1	S	612	ILE	2.2
1	A	543	ASP	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	654	LYS	2.2
1	C	545	ASP	2.2
1	M	344	LYS	2.2
1	R	530	LEU	2.2
1	D	660	ASN	2.2
1	G	490	ALA	2.2
1	F	274	THR	2.2
1	J	246	THR	2.2
1	D	323	HIS	2.2
1	I	346	SER	2.2
1	I	368	PHE	2.2
1	L	219	PHE	2.2
1	O	191	GLN	2.2
1	J	310	VAL	2.2
1	G	474	ARG	2.2
1	O	387	ARG	2.2
1	E	195	PRO	2.2
1	S	490	ALA	2.2
1	E	430	THR	2.2
1	L	439	THR	2.2
1	A	403	LEU	2.2
1	F	201	LEU	2.2
1	H	191	GLN	2.2
1	Q	260	GLN	2.2
1	F	241	ASP	2.2
1	G	364	ARG	2.2
1	S	316	PRO	2.2
1	C	611	ILE	2.2
1	O	385	THR	2.2
1	I	581	ASP	2.1
1	S	192	ALA	2.1
1	A	600	LEU	2.1
1	E	204	LEU	2.1
1	E	611	ILE	2.1
1	K	197	LEU	2.1
1	L	402	LYS	2.1
1	O	380	THR	2.1
1	S	323	HIS	2.1
1	K	306	SER	2.1
1	K	449	ARG	2.1
1	R	276	TYR	2.1
1	R	549	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
1	C	298	PRO	2.1
1	R	431	PRO	2.1
1	M	501	ASN	2.1
1	B	274	THR	2.1
1	I	312	VAL	2.1
1	C	248	MET	2.1
1	A	653	ALA	2.1
1	G	182	GLU	2.1
1	O	498	GLU	2.1
1	B	568	LYS	2.1
1	Q	186	LYS	2.1
1	R	238	PRO	2.1
1	C	308	CYS	2.1
1	K	550	ILE	2.1
1	O	215	ILE	2.1
1	T	619	PHE	2.1
1	E	301	ASN	2.1
1	L	576	VAL	2.1
1	E	610	ARG	2.1
1	F	161	SER	2.1
1	S	617	SER	2.1
1	J	539	ALA	2.1
1	T	622	GLY	2.1
1	O	425	ILE	2.1
1	F	337	VAL	2.1
1	Q	176	VAL	2.1
1	O	441	ASN	2.1
1	H	527	LEU	2.1
1	O	184	GLN	2.1
1	B	407	ILE	2.1
1	N	395	ILE	2.1
1	D	253	HIS	2.1
1	A	536	GLY	2.1
1	L	341	LEU	2.1
1	M	314	THR	2.1
1	O	503	ILE	2.1
1	R	169	PHE	2.1
1	R	521	GLN	2.1
1	G	642	PRO	2.1
1	K	217	VAL	2.1
1	M	209	VAL	2.1
1	B	324	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	C	599	TYR	2.1
1	D	486	PHE	2.1
1	K	334	HIS	2.1
1	O	219	PHE	2.1
1	A	267	THR	2.1
1	C	526	THR	2.1
1	D	439	THR	2.1
1	N	484	THR	2.1
1	L	237	PRO	2.1
1	Q	512	GLN	2.1
1	R	269	PRO	2.1
1	C	247	SER	2.1
1	I	396	SER	2.1
1	J	264	VAL	2.1
1	E	196	LEU	2.0
1	L	239	GLY	2.0
1	L	471	ALA	2.0
1	Q	511	PHE	2.0
1	M	262	GLU	2.0
1	J	320	PHE	2.0
1	M	194	GLY	2.0
1	R	626	ASP	2.0
1	Q	253	HIS	2.0
1	B	633	VAL	2.0
1	F	447	THR	2.0
1	J	489	THR	2.0
1	K	483	ASN	2.0
1	T	377	ASN	2.0
1	E	171	SER	2.0
1	K	345	SER	2.0
1	T	307	GLY	2.0
1	E	243	VAL	2.0
1	Q	349	TRP	2.0
1	H	359	THR	2.0
1	I	501	ASN	2.0
1	Q	364	ARG	2.0
1	I	347	SER	2.0

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

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

6.3 Carbohydrates (i)

There are no oligosaccharides in this entry.

6.4 Ligands (i)

There are no ligands in this entry.

6.5 Other polymers (i)

There are no such residues in this entry.