Full wwPDB EM Validation Report

Mar 9, 2026 – 05:08 AM UTC

PDB ID	:	7BP0 / pdb_00007bp0
EMDB ID	:	EMD-30138
Title	:	Packing Bacteriophage T7 portal protein GP8
Authors	:	Chen, W.Y.; Xiao, H.
Deposited on	:	2020-03-20
Resolution	:	4.60 Å(reported)

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

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

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

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

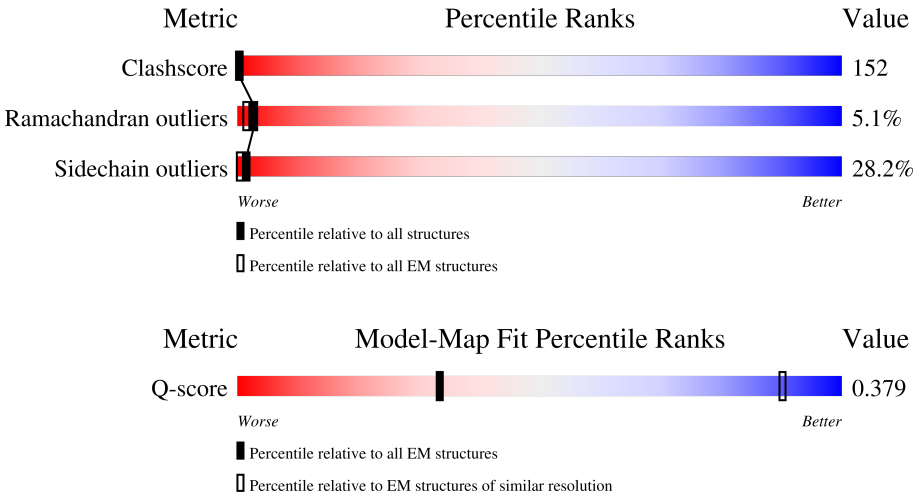
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance

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

The reported resolution of this entry is 4.60 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	2407 (4.10 - 5.10)

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

Mol	Chain	Length	Quality of chain
1	a	536	14% 40% 21% 6% 18%
1	b	536	15% 40% 21% 6% 18%
1	c	536	14% 41% 20% 6% 18%
1	d	536	15% 40% 20% 6% 18%

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Mol	Chain	Length	Quality of chain
1	e	536	
1	f	536	
1	g	536	
1	h	536	
1	i	536	
1	j	536	
1	k	536	
1	l	536	

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 41388 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Portal protein.

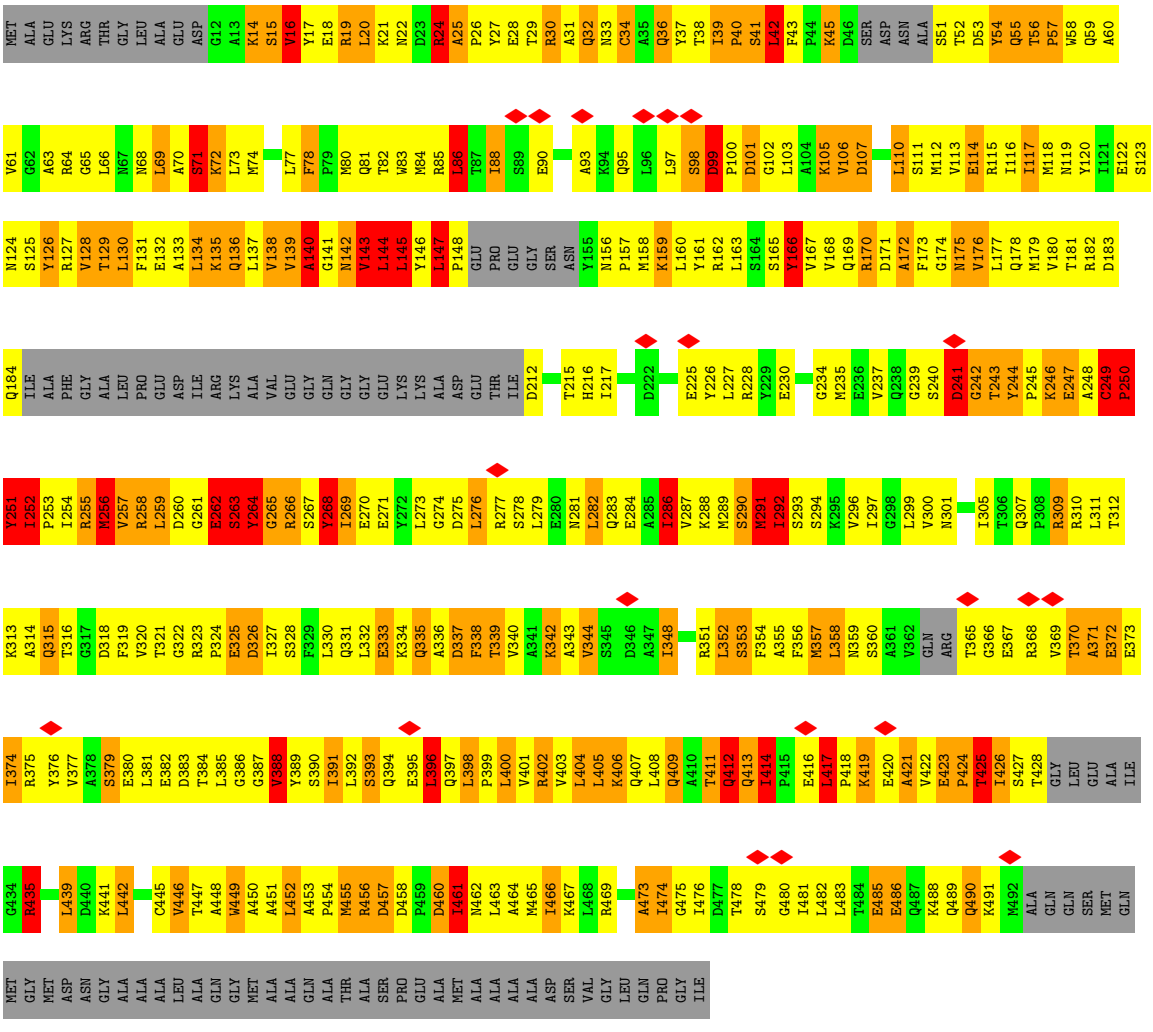
Mol	Chain	Residues	Atoms					AltConf	Trace
1	a	437	Total	C	N	O	S	0	0
			3449	2180	580	671	18		
1	b	437	Total	C	N	O	S	0	0
			3449	2180	580	671	18		
1	c	437	Total	C	N	O	S	0	0
			3449	2180	580	671	18		
1	d	437	Total	C	N	O	S	0	0
			3449	2180	580	671	18		
1	e	437	Total	C	N	O	S	0	0
			3449	2180	580	671	18		
1	f	437	Total	C	N	O	S	0	0
			3449	2180	580	671	18		
1	g	437	Total	C	N	O	S	0	0
			3449	2180	580	671	18		
1	h	437	Total	C	N	O	S	0	0
			3449	2180	580	671	18		
1	i	437	Total	C	N	O	S	0	0
			3449	2180	580	671	18		
1	j	437	Total	C	N	O	S	0	0
			3449	2180	580	671	18		
1	k	437	Total	C	N	O	S	0	0
			3449	2180	580	671	18		
1	l	437	Total	C	N	O	S	0	0
			3449	2180	580	671	18		

3 Residue-property plots (i)

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

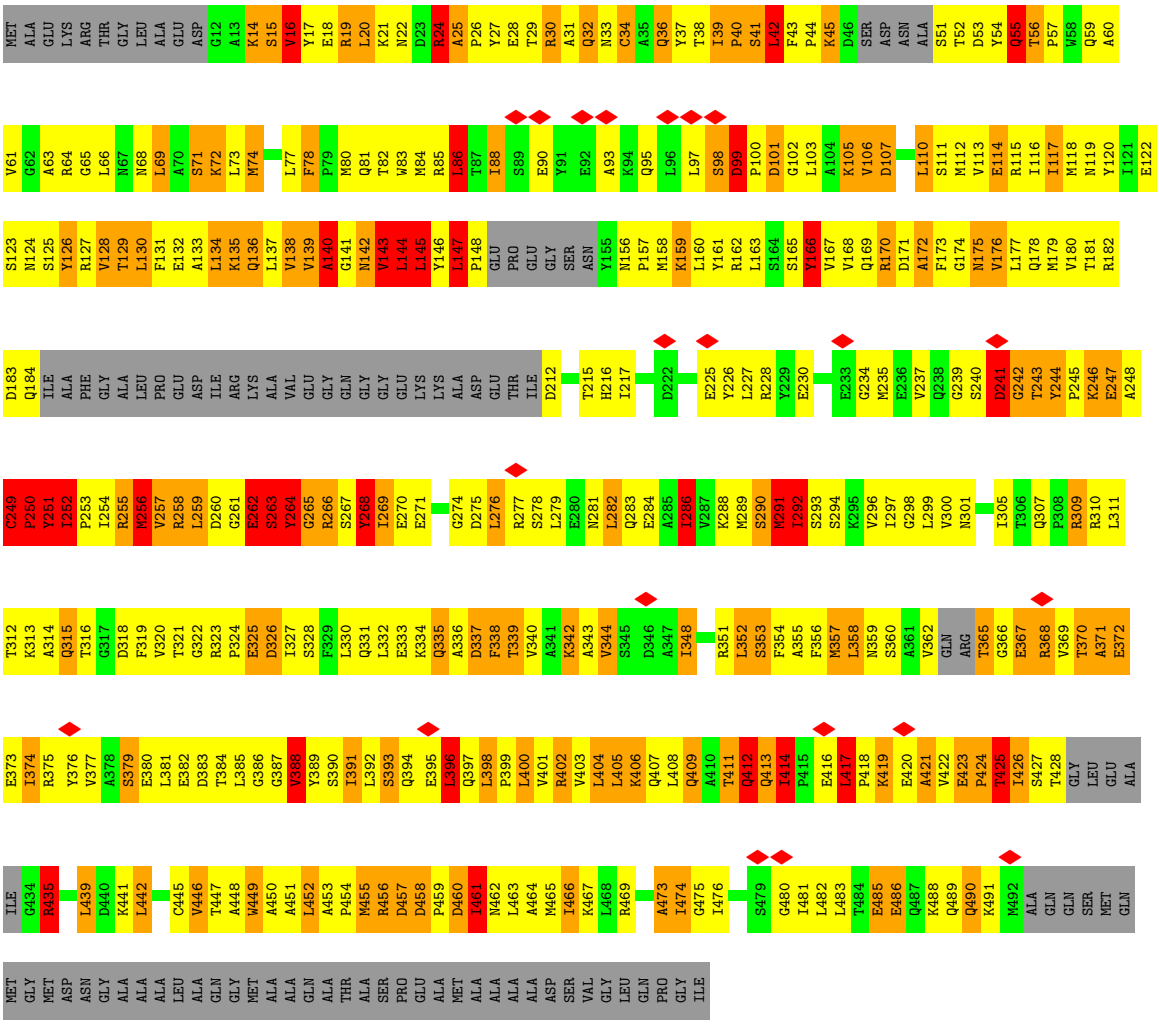
• Molecule 1: Portal protein

Chain a:



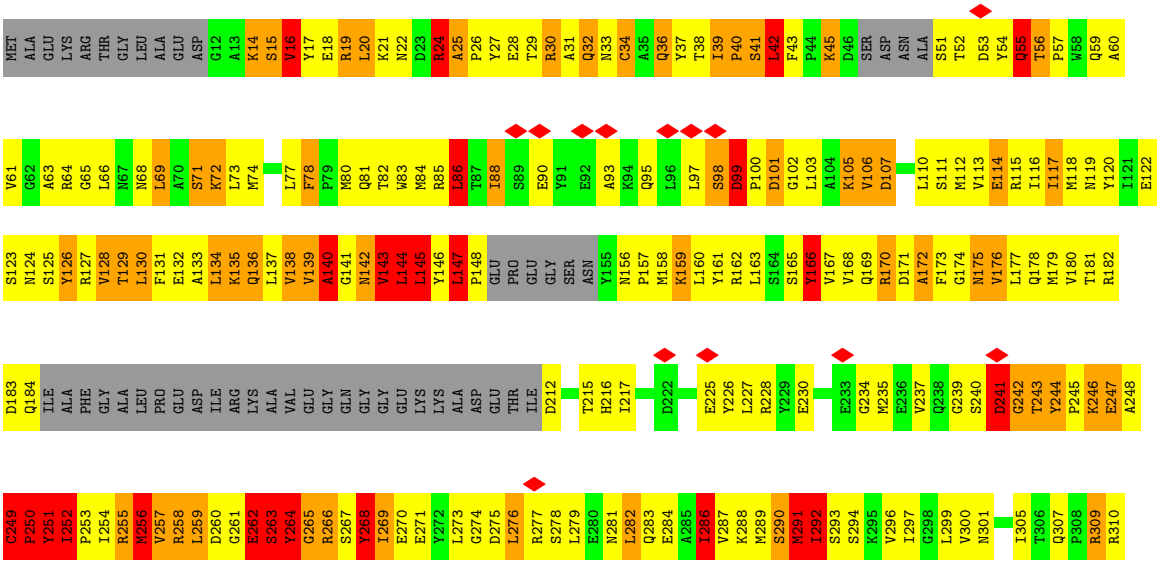
• Molecule 1: Portal protein

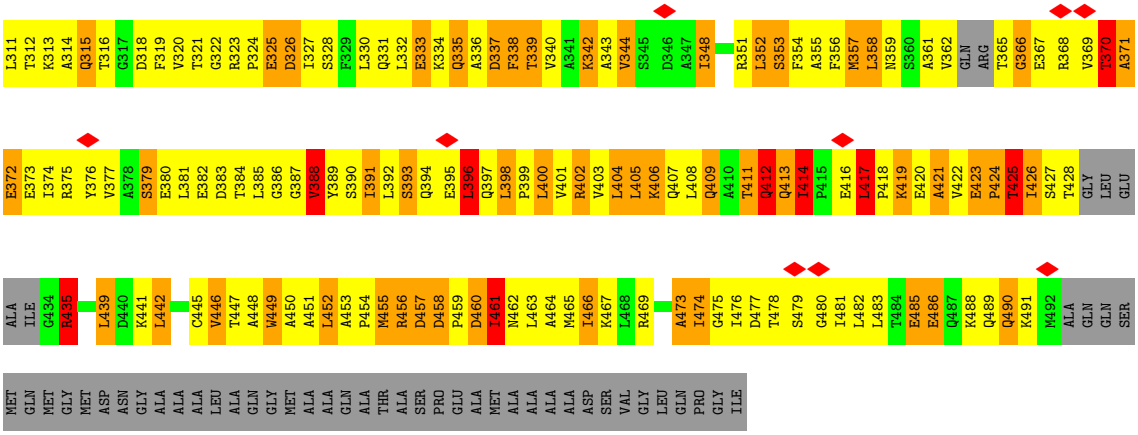
Chain b:



• Molecule 1: Portal protein

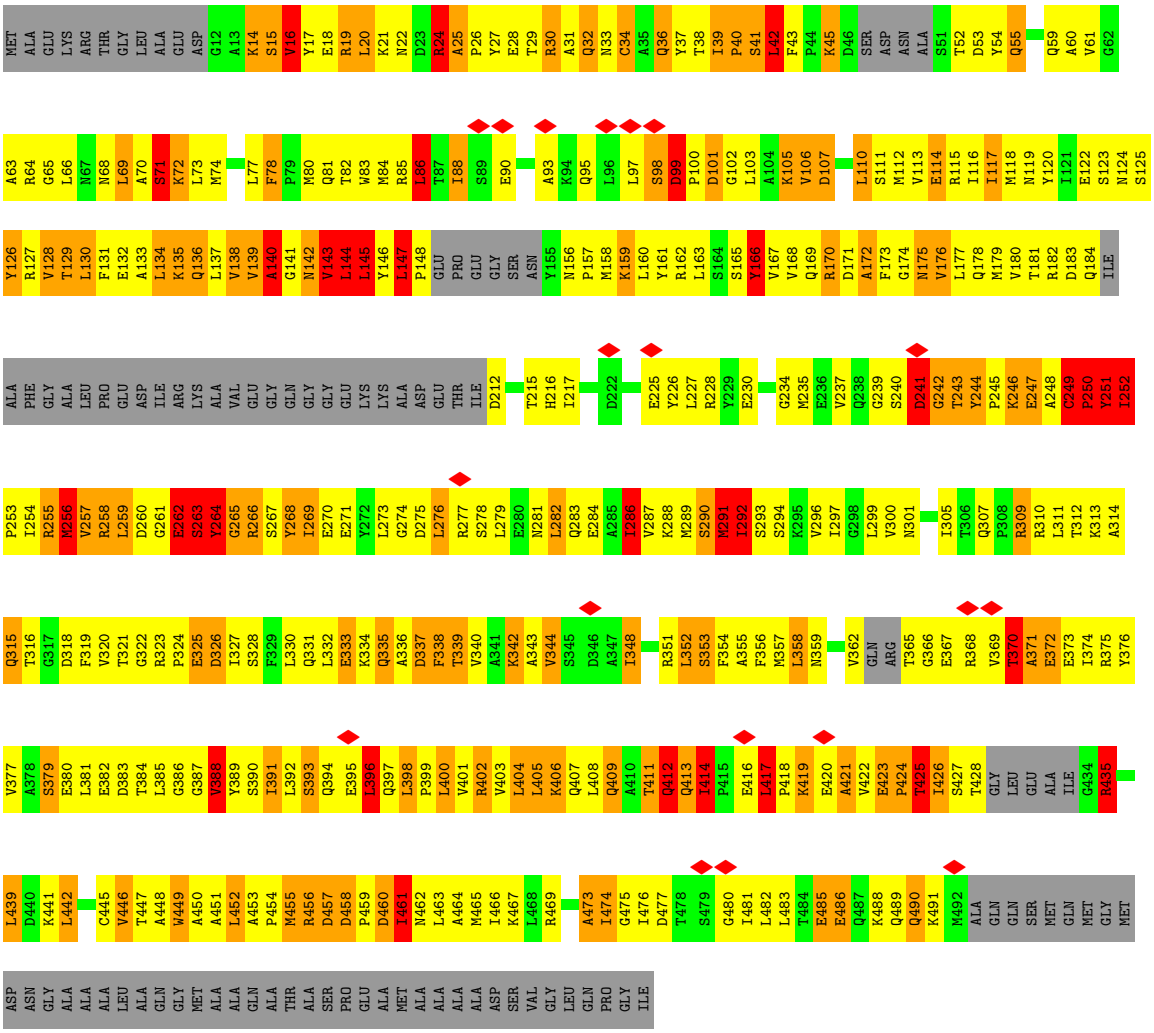
Chain c:





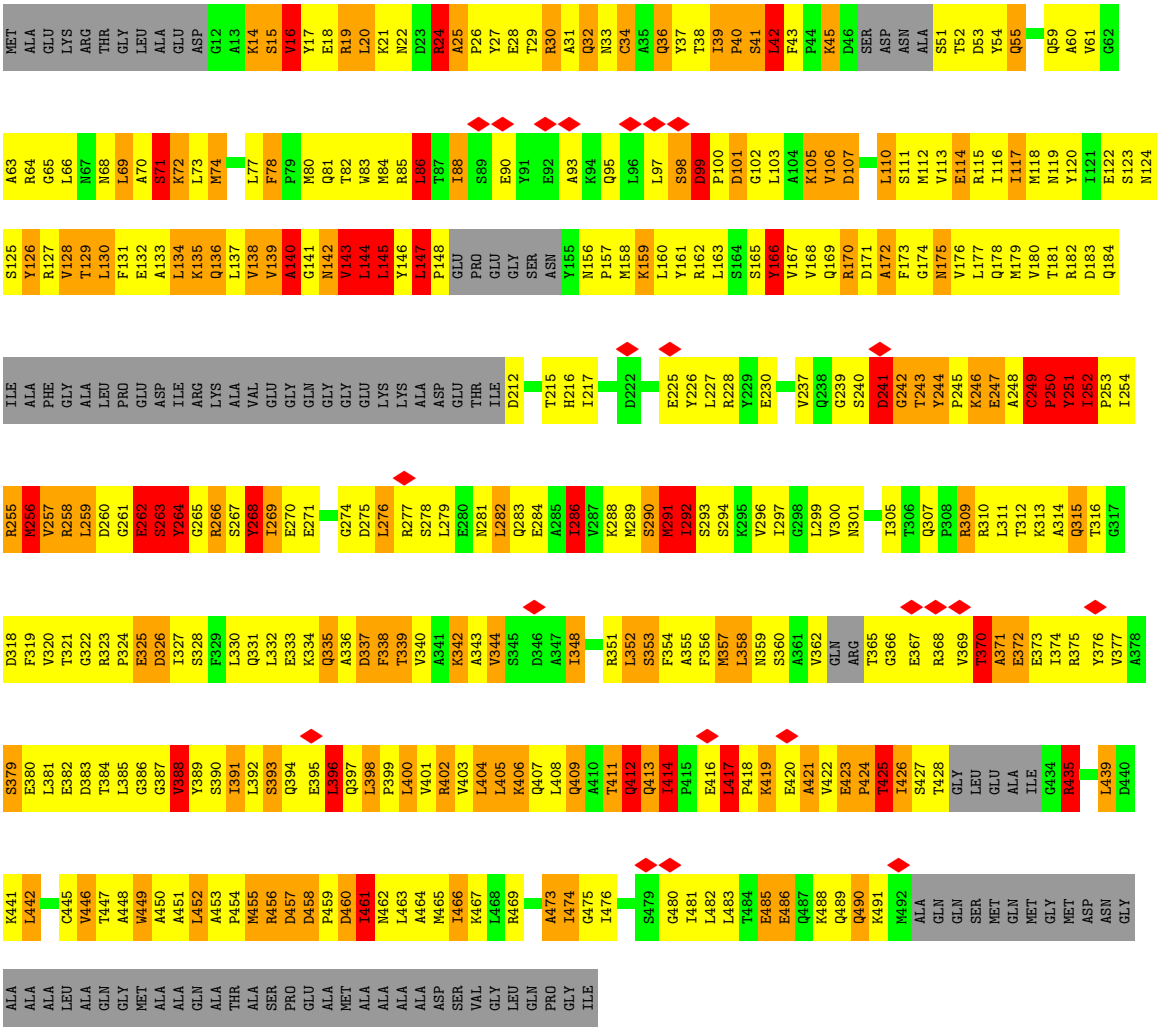
• Molecule 1: Portal protein

Chain d:



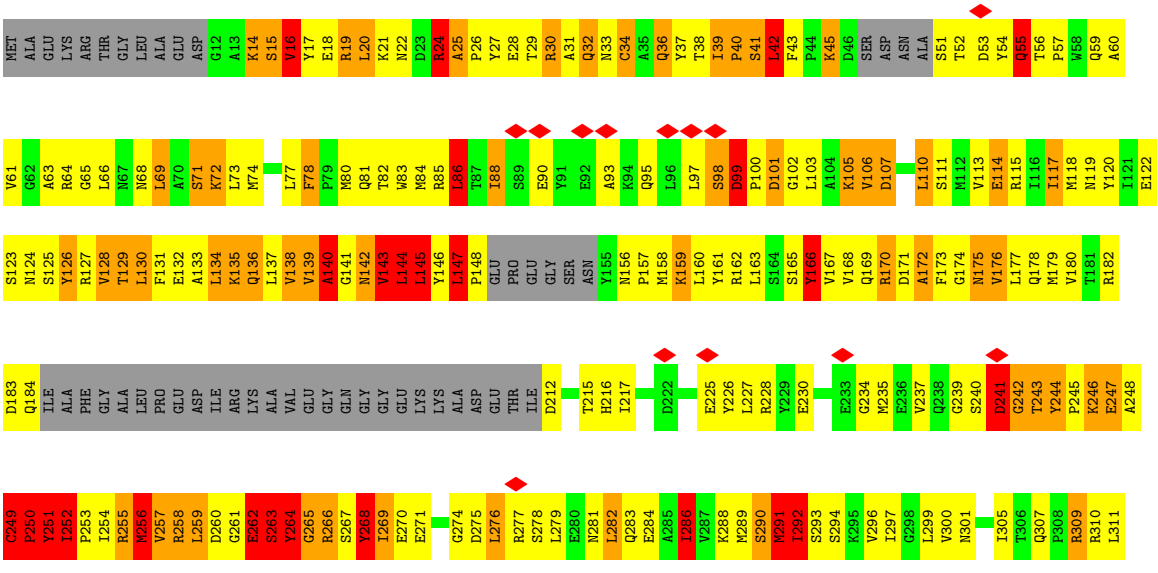
• Molecule 1: Portal protein

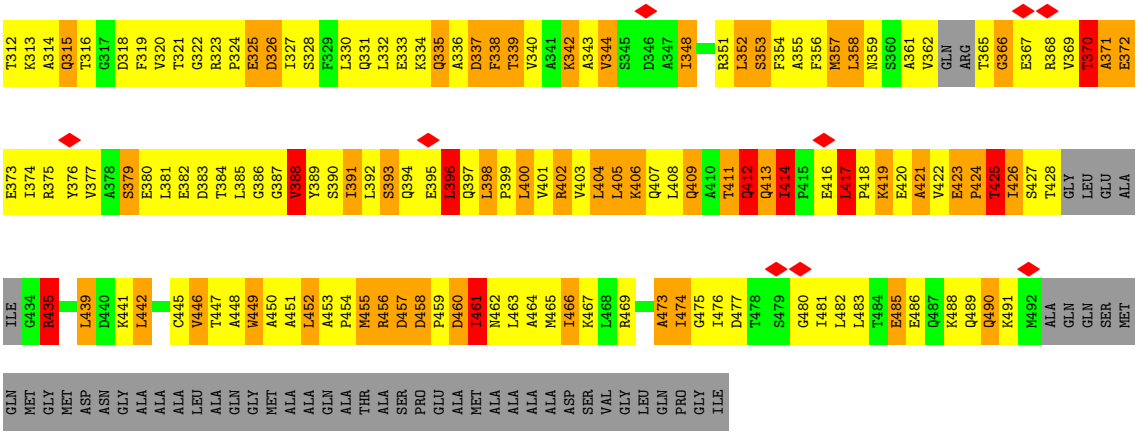
Chain e:



• Molecule 1: Portal protein

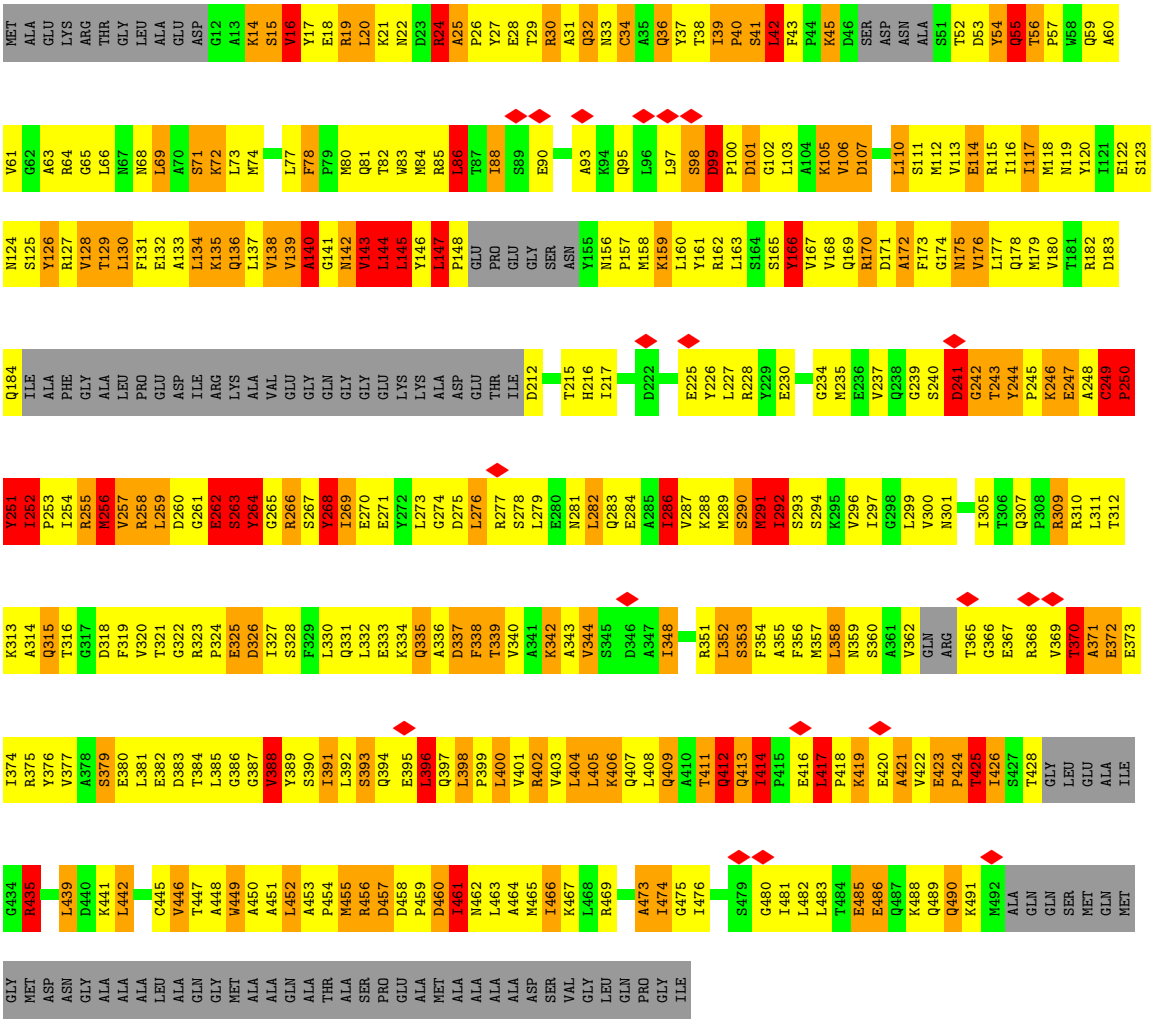
Chain f:





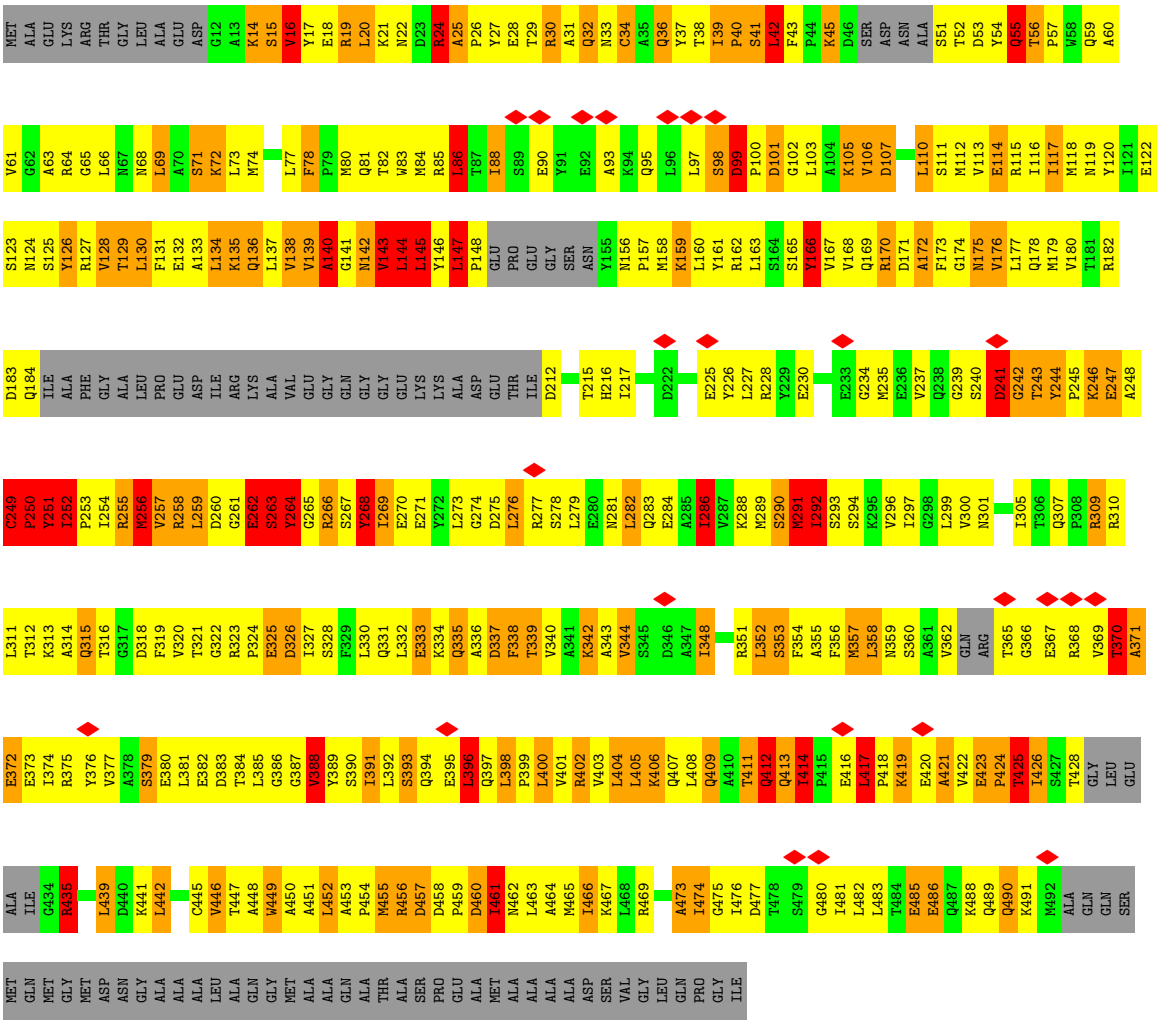
• Molecule 1: Portal protein

Chain g:



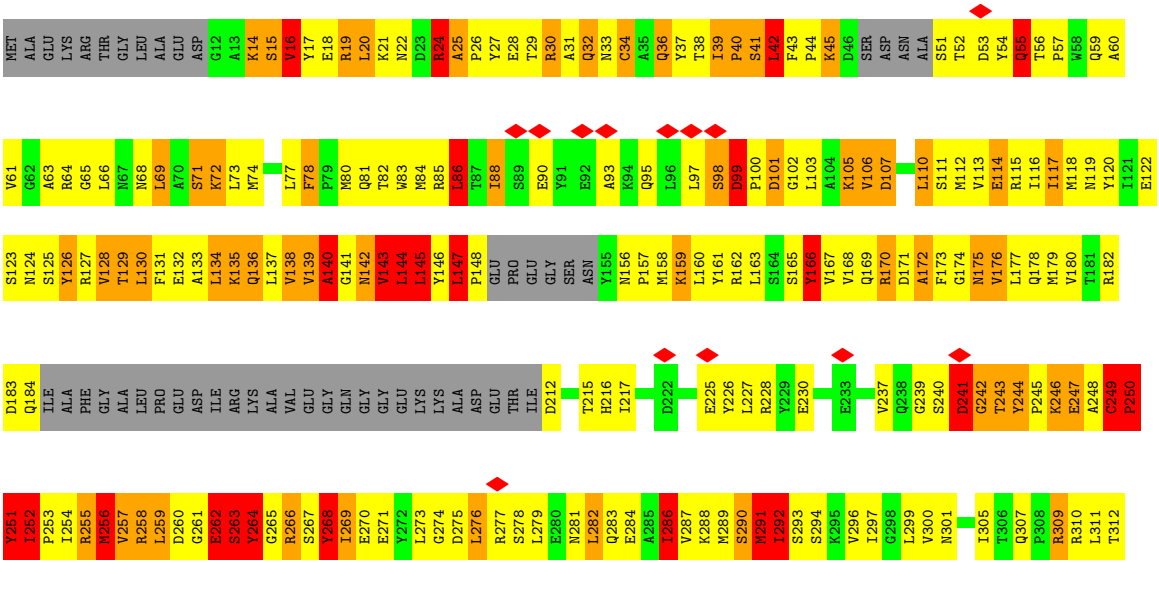
• Molecule 1: Portal protein

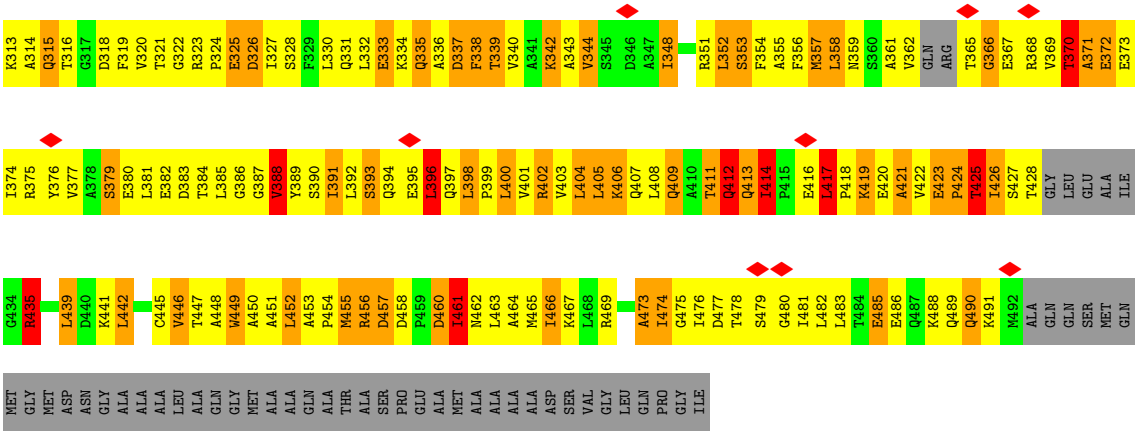
Chain h:



• Molecule 1: Portal protein

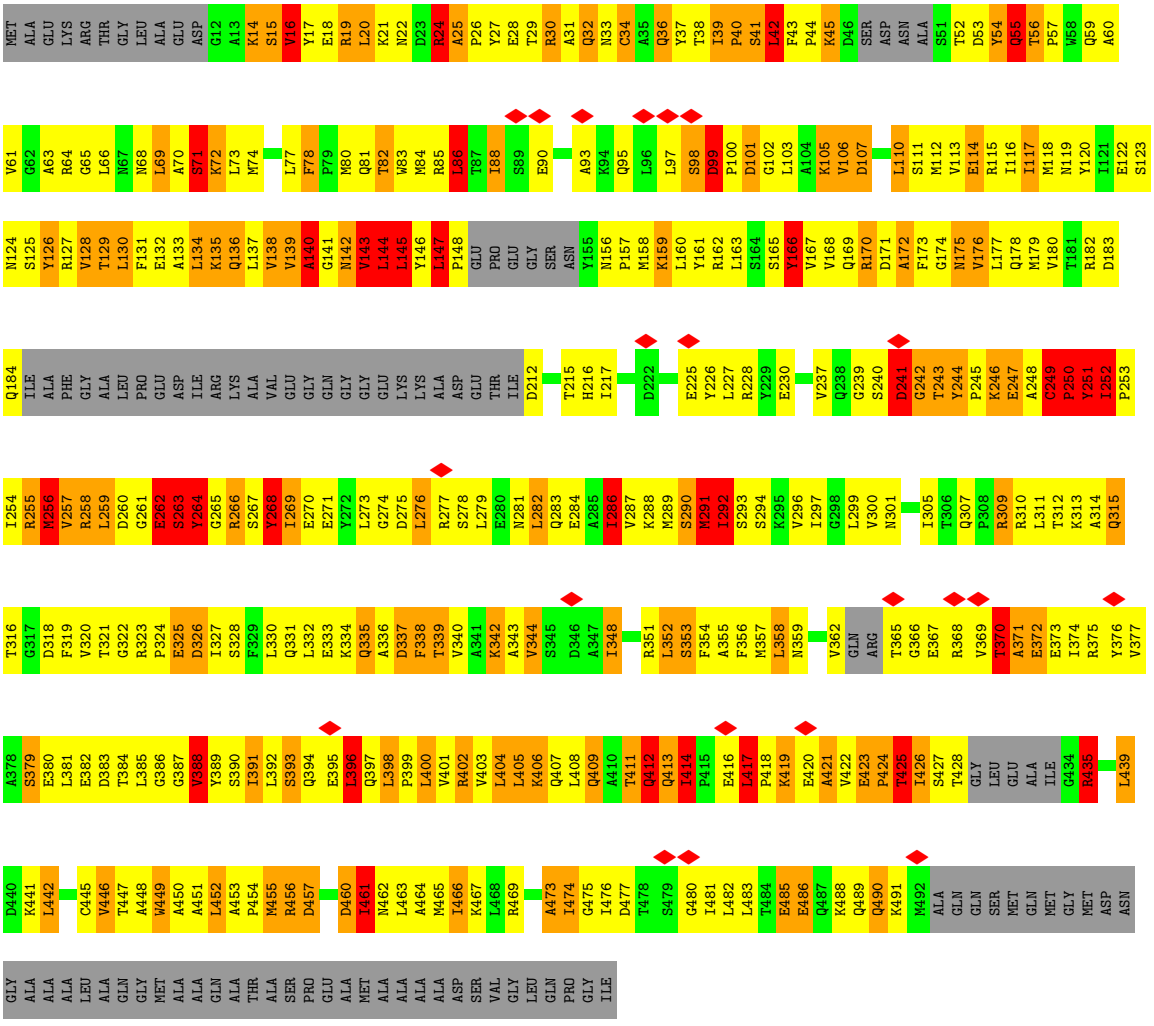
Chain i:





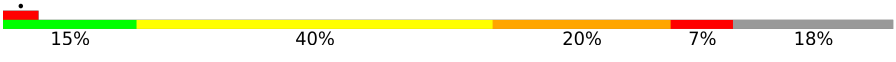
• Molecule 1: Portal protein

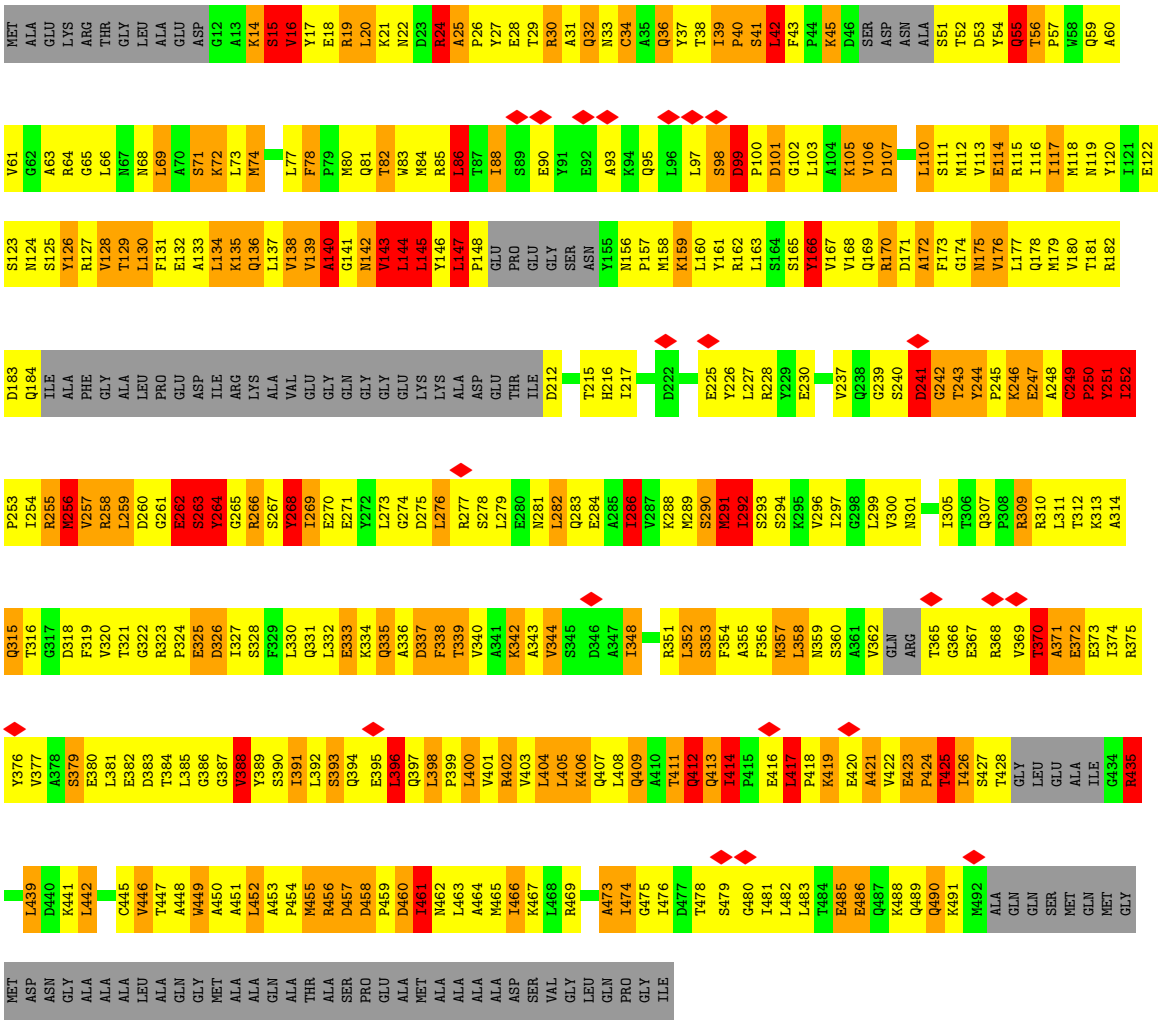
Chain j:



• Molecule 1: Portal protein

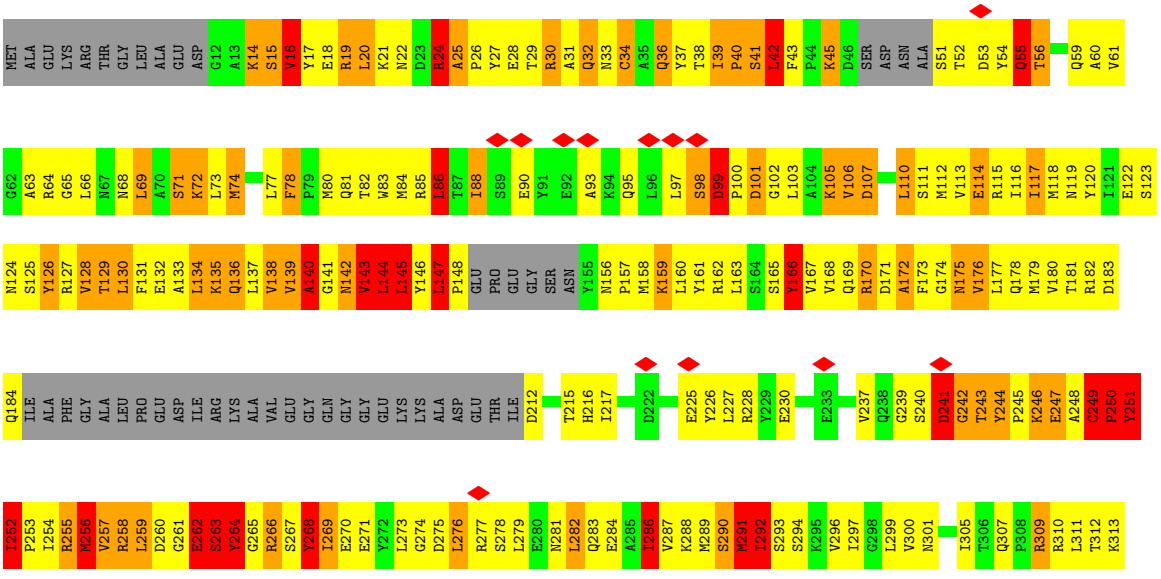
Chain k:

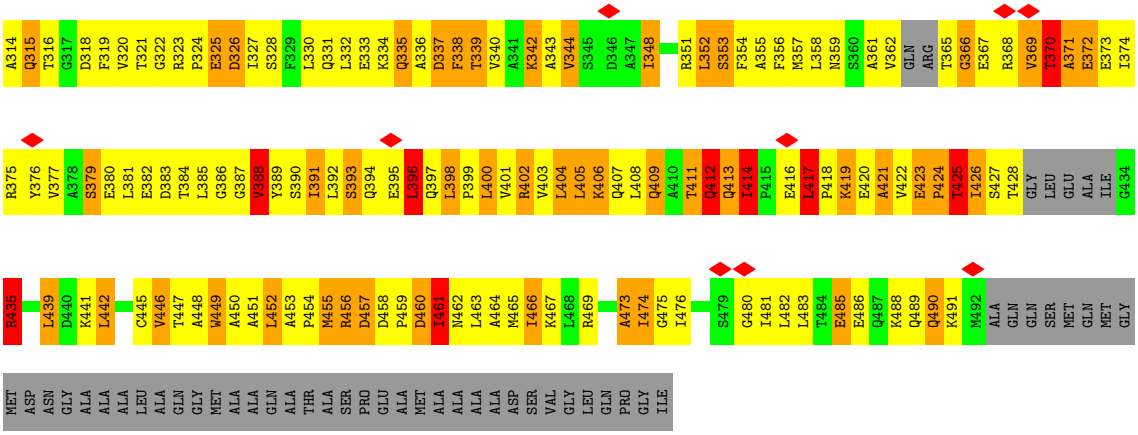




• Molecule 1: Portal protein

Chain l:




A314 Q315 T316 G317 D318 F319 V320 T321 G322 R323 P324 E325 D326 I327 S328 F329 L330 Q331 L332 E333 K334 Q335 A336 D337 F338 T339 V340 A341 K342 A343 V344 S345 D346 A347 I348 R351 L352 S353 F354 A355 F356 M357 L358 N359 S360 A361 V362 GLN ARG T365 G366 E367 R368 V369 T370 A371 E372 E373 I374
R375 Y376 V377 A378 S379 E380 L381 E382 D383 T384 L385 G386 G387 Y388 Y389 S390 I391 L392 S393 Q394 E395 L396 Q397 L398 P399 L400 V401 R402 V403 L404 L405 K406 Q407 L408 Q409 A410 T411 Q412 Q413 T414 P415 E416 L417 P418 K419 E420 A421 V422 E423 P424 T425 I426 S427 T428 GLY LEU GLU ALA ILE G434
R435 L439 D440 K441 L442 C445 V446 T447 A448 W449 A450 A451 L452 A453 P454 M455 R456 D457 D458 P459 D460 Y461 N462 L463 A464 M465 I466 K467 L468 R469 A473 I474 G475 I476 S479 G480 I481 L482 L483 T484 E485 E486 Q487 K488 Q489 Q490 K491 M492 ALA GLN GLN SER MET GLN MET GLY
MET ASP ASN GLY ALA ALA ALA LEU ALA GLN GLY MET ALA ALA GLN ALA THR ALA SER PRO GLU ALA MET ALA ALA ALA ALA ASP SER VAL GLY LEU GLN PRO GLY ILE

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	84318	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TECNAI ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	27	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	34.251	Depositor
Minimum map value	-25.084	Depositor
Average map value	0.038	Depositor
Map value standard deviation	1.852	Depositor
Recommended contour level	7	Depositor
Map size (Å)	406.4, 406.4, 406.4	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.27, 1.27, 1.27	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	a	0.98	5/3501 (0.1%)	1.63	89/4735 (1.9%)
1	b	0.98	4/3501 (0.1%)	1.64	87/4735 (1.8%)
1	c	0.97	4/3501 (0.1%)	1.64	89/4735 (1.9%)
1	d	0.97	4/3501 (0.1%)	1.63	86/4735 (1.8%)
1	e	0.97	4/3501 (0.1%)	1.63	86/4735 (1.8%)
1	f	0.97	4/3501 (0.1%)	1.63	88/4735 (1.9%)
1	g	0.98	4/3501 (0.1%)	1.64	86/4735 (1.8%)
1	h	0.97	4/3501 (0.1%)	1.64	86/4735 (1.8%)
1	i	0.97	4/3501 (0.1%)	1.63	88/4735 (1.9%)
1	j	0.98	4/3501 (0.1%)	1.64	88/4735 (1.9%)
1	k	0.98	4/3501 (0.1%)	1.64	89/4735 (1.9%)
1	l	0.97	4/3501 (0.1%)	1.64	87/4735 (1.8%)
All	All	0.97	49/42012 (0.1%)	1.64	1049/56820 (1.8%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	a	0	17
1	b	0	18
1	c	0	17
1	d	0	17
1	e	0	17
1	f	0	17
1	g	0	17
1	h	0	17
1	i	0	17
1	j	0	17
1	k	0	18
1	l	0	18
All	All	0	207

All (49) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h	16	VAL	CA-C	9.89	1.64	1.52
1	c	16	VAL	CA-C	9.84	1.64	1.52
1	e	16	VAL	CA-C	9.83	1.64	1.52
1	f	16	VAL	CA-C	9.79	1.64	1.52
1	i	16	VAL	CA-C	9.78	1.64	1.52
1	d	16	VAL	CA-C	9.78	1.64	1.52
1	a	16	VAL	CA-C	9.77	1.64	1.52
1	j	16	VAL	CA-C	9.77	1.64	1.52
1	g	16	VAL	CA-C	9.76	1.64	1.52
1	l	16	VAL	CA-C	9.75	1.64	1.52
1	k	16	VAL	CA-C	9.73	1.64	1.52
1	b	16	VAL	CA-C	9.67	1.64	1.52
1	d	16	VAL	C-O	8.97	1.33	1.24
1	j	16	VAL	C-O	8.97	1.33	1.24
1	e	16	VAL	C-O	8.95	1.33	1.24
1	c	16	VAL	C-O	8.94	1.33	1.24
1	k	16	VAL	C-O	8.92	1.33	1.24
1	h	16	VAL	C-O	8.90	1.33	1.24
1	b	16	VAL	C-O	8.90	1.33	1.24
1	f	16	VAL	C-O	8.87	1.33	1.24
1	l	16	VAL	C-O	8.87	1.33	1.24
1	i	16	VAL	C-O	8.84	1.33	1.24
1	g	16	VAL	C-O	8.83	1.33	1.24
1	a	16	VAL	C-O	8.81	1.33	1.24
1	b	139	VAL	CA-C	5.48	1.59	1.52
1	k	139	VAL	CA-C	5.46	1.59	1.52
1	h	139	VAL	CA-C	5.45	1.59	1.52
1	c	139	VAL	CA-C	5.45	1.59	1.52
1	i	139	VAL	CA-C	5.45	1.59	1.52
1	l	139	VAL	CA-C	5.45	1.59	1.52
1	a	57	PRO	N-CD	5.44	1.55	1.47
1	e	139	VAL	CA-C	5.43	1.59	1.52
1	f	139	VAL	CA-C	5.39	1.58	1.52
1	j	139	VAL	CA-C	5.39	1.59	1.52
1	a	139	VAL	CA-C	5.38	1.58	1.52
1	d	139	VAL	CA-C	5.36	1.58	1.52
1	g	139	VAL	CA-C	5.33	1.58	1.52
1	l	16	VAL	N-CA	5.18	1.52	1.46
1	e	16	VAL	N-CA	5.15	1.52	1.46
1	k	16	VAL	N-CA	5.14	1.52	1.46
1	g	16	VAL	N-CA	5.11	1.52	1.46
1	i	16	VAL	N-CA	5.10	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d	16	VAL	N-CA	5.10	1.52	1.46
1	b	16	VAL	N-CA	5.08	1.52	1.46
1	j	16	VAL	N-CA	5.06	1.52	1.46
1	c	16	VAL	N-CA	5.05	1.52	1.46
1	h	16	VAL	N-CA	5.03	1.52	1.46
1	a	16	VAL	N-CA	5.01	1.52	1.46
1	f	16	VAL	N-CA	5.01	1.52	1.46

All (1049) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	86	LEU	O-C-N	-14.73	103.67	122.82
1	j	86	LEU	O-C-N	-14.72	103.68	122.82
1	g	86	LEU	O-C-N	-14.70	103.71	122.82
1	d	86	LEU	O-C-N	-14.69	103.72	122.82
1	e	86	LEU	O-C-N	-14.69	103.73	122.82
1	i	86	LEU	O-C-N	-14.68	103.73	122.82
1	h	86	LEU	O-C-N	-14.67	103.75	122.82
1	a	86	LEU	O-C-N	-14.66	103.76	122.82
1	l	86	LEU	O-C-N	-14.66	103.75	122.82
1	b	86	LEU	O-C-N	-14.66	103.76	122.82
1	f	86	LEU	O-C-N	-14.66	103.76	122.82
1	k	86	LEU	O-C-N	-14.63	103.80	122.82
1	g	16	VAL	N-CA-C	14.60	129.53	107.78
1	f	16	VAL	N-CA-C	14.58	129.51	107.78
1	c	16	VAL	N-CA-C	14.58	129.50	107.78
1	j	16	VAL	N-CA-C	14.57	129.50	107.78
1	b	16	VAL	N-CA-C	14.57	129.49	107.78
1	i	16	VAL	N-CA-C	14.57	129.49	107.78
1	k	16	VAL	N-CA-C	14.56	129.48	107.78
1	h	16	VAL	N-CA-C	14.56	129.47	107.78
1	a	16	VAL	N-CA-C	14.55	129.46	107.78
1	l	16	VAL	N-CA-C	14.55	129.45	107.78
1	e	16	VAL	N-CA-C	14.54	129.45	107.78
1	d	16	VAL	N-CA-C	14.52	129.41	107.78
1	k	255	ARG	N-CA-C	13.19	125.73	111.36
1	i	255	ARG	N-CA-C	13.12	125.66	111.36
1	g	255	ARG	N-CA-C	13.11	125.65	111.36
1	d	255	ARG	N-CA-C	13.11	125.65	111.36
1	j	255	ARG	N-CA-C	13.11	125.65	111.36
1	f	255	ARG	N-CA-C	13.10	125.64	111.36
1	b	255	ARG	N-CA-C	13.10	125.64	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e	255	ARG	N-CA-C	13.09	125.63	111.36
1	l	255	ARG	N-CA-C	13.07	125.61	111.36
1	h	255	ARG	N-CA-C	13.05	125.59	111.36
1	a	255	ARG	N-CA-C	13.00	125.53	111.36
1	c	255	ARG	N-CA-C	12.94	125.47	111.36
1	j	252	ILE	N-CA-C	12.67	122.77	108.96
1	e	252	ILE	N-CA-C	12.65	122.75	108.96
1	g	252	ILE	N-CA-C	12.65	122.75	108.96
1	a	252	ILE	N-CA-C	12.64	122.74	108.96
1	d	252	ILE	N-CA-C	12.64	122.74	108.96
1	i	252	ILE	N-CA-C	12.63	122.73	108.96
1	b	252	ILE	N-CA-C	12.63	122.73	108.96
1	f	252	ILE	N-CA-C	12.62	122.72	108.96
1	h	252	ILE	N-CA-C	12.61	122.70	108.96
1	k	252	ILE	N-CA-C	12.61	122.70	108.96
1	c	252	ILE	N-CA-C	12.60	122.70	108.96
1	l	252	ILE	N-CA-C	12.56	122.65	108.96
1	i	166	TYR	N-CA-C	11.62	127.67	110.48
1	l	166	TYR	N-CA-C	11.60	127.65	110.48
1	k	166	TYR	N-CA-C	11.60	127.64	110.48
1	h	166	TYR	N-CA-C	11.59	127.63	110.48
1	b	166	TYR	N-CA-C	11.58	127.62	110.48
1	e	166	TYR	N-CA-C	11.58	127.62	110.48
1	c	166	TYR	N-CA-C	11.58	127.62	110.48
1	j	166	TYR	N-CA-C	11.57	127.61	110.48
1	g	166	TYR	N-CA-C	11.56	127.59	110.48
1	f	166	TYR	N-CA-C	11.54	127.56	110.48
1	d	166	TYR	N-CA-C	11.53	127.55	110.48
1	a	166	TYR	N-CA-C	11.52	127.53	110.48
1	k	147	LEU	N-CA-C	11.36	127.47	110.10
1	f	147	LEU	N-CA-C	11.35	127.46	110.10
1	a	147	LEU	N-CA-C	11.33	127.44	110.10
1	l	147	LEU	N-CA-C	11.33	127.44	110.10
1	d	147	LEU	N-CA-C	11.33	127.43	110.10
1	g	147	LEU	N-CA-C	11.30	127.39	110.10
1	c	147	LEU	N-CA-C	11.30	127.39	110.10
1	e	147	LEU	N-CA-C	11.30	127.39	110.10
1	h	147	LEU	N-CA-C	11.30	127.39	110.10
1	b	147	LEU	N-CA-C	11.28	127.35	110.10
1	i	147	LEU	N-CA-C	11.26	127.33	110.10
1	j	147	LEU	N-CA-C	11.25	127.31	110.10
1	h	488	LYS	N-CA-C	10.82	123.07	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g	264	TYR	N-CA-C	-10.81	89.71	108.20
1	k	488	LYS	N-CA-C	10.80	123.06	111.28
1	d	488	LYS	N-CA-C	10.80	123.05	111.28
1	b	264	TYR	N-CA-C	-10.79	89.75	108.20
1	b	488	LYS	N-CA-C	10.78	123.03	111.28
1	l	264	TYR	N-CA-C	-10.78	89.76	108.20
1	e	488	LYS	N-CA-C	10.78	123.03	111.28
1	i	488	LYS	N-CA-C	10.77	123.02	111.28
1	e	264	TYR	N-CA-C	-10.77	89.78	108.20
1	a	488	LYS	N-CA-C	10.77	123.02	111.28
1	g	488	LYS	N-CA-C	10.77	123.02	111.28
1	k	264	TYR	N-CA-C	-10.77	89.79	108.20
1	l	488	LYS	N-CA-C	10.77	123.02	111.28
1	i	264	TYR	N-CA-C	-10.77	89.79	108.20
1	f	488	LYS	N-CA-C	10.76	123.01	111.28
1	c	264	TYR	N-CA-C	-10.75	89.81	108.20
1	f	264	TYR	N-CA-C	-10.75	89.82	108.20
1	d	264	TYR	N-CA-C	-10.75	89.82	108.20
1	h	264	TYR	N-CA-C	-10.75	89.82	108.20
1	a	264	TYR	N-CA-C	-10.74	89.83	108.20
1	c	488	LYS	N-CA-C	10.74	122.99	111.28
1	j	488	LYS	N-CA-C	10.74	122.99	111.28
1	j	264	TYR	N-CA-C	-10.73	89.85	108.20
1	b	371	ALA	CA-C-N	-10.61	105.85	120.38
1	b	371	ALA	C-N-CA	-10.61	105.85	120.38
1	e	16	VAL	CA-C-O	10.25	130.40	120.25
1	g	16	VAL	CA-C-O	10.22	130.37	120.25
1	a	16	VAL	CA-C-O	10.21	130.36	120.25
1	j	16	VAL	CA-C-O	10.20	130.34	120.25
1	k	16	VAL	CA-C-O	10.19	130.34	120.25
1	d	16	VAL	CA-C-O	10.18	130.33	120.25
1	l	16	VAL	CA-C-O	10.16	130.31	120.25
1	i	16	VAL	CA-C-O	10.15	130.30	120.25
1	f	16	VAL	CA-C-O	10.15	130.30	120.25
1	c	16	VAL	CA-C-O	10.14	130.29	120.25
1	b	16	VAL	CA-C-O	10.14	130.29	120.25
1	h	16	VAL	CA-C-O	10.11	130.25	120.25
1	b	290	SER	N-CA-C	10.05	122.00	111.14
1	e	290	SER	N-CA-C	10.05	121.99	111.14
1	a	290	SER	N-CA-C	10.04	121.98	111.14
1	g	290	SER	N-CA-C	10.02	121.97	111.14
1	l	290	SER	N-CA-C	10.02	121.96	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i	290	SER	N-CA-C	10.02	121.96	111.14
1	k	290	SER	N-CA-C	10.01	121.95	111.14
1	h	290	SER	N-CA-C	10.01	121.95	111.14
1	k	239	GLY	N-CA-C	-10.01	89.47	113.18
1	d	290	SER	N-CA-C	10.00	121.94	111.14
1	l	30	ARG	N-CA-C	-10.00	100.18	112.38
1	f	239	GLY	N-CA-C	-9.99	89.50	113.18
1	e	239	GLY	N-CA-C	-9.98	89.53	113.18
1	j	239	GLY	N-CA-C	-9.98	89.53	113.18
1	c	239	GLY	N-CA-C	-9.97	89.54	113.18
1	d	30	ARG	N-CA-C	-9.97	100.21	112.38
1	h	239	GLY	N-CA-C	-9.97	89.54	113.18
1	k	30	ARG	N-CA-C	-9.97	100.21	112.38
1	a	239	GLY	N-CA-C	-9.97	89.56	113.18
1	d	239	GLY	N-CA-C	-9.97	89.56	113.18
1	l	239	GLY	N-CA-C	-9.97	89.56	113.18
1	c	290	SER	N-CA-C	9.96	121.90	111.14
1	g	239	GLY	N-CA-C	-9.96	89.58	113.18
1	i	239	GLY	N-CA-C	-9.96	89.58	113.18
1	i	417	LEU	N-CA-C	-9.96	90.64	108.47
1	b	239	GLY	N-CA-C	-9.95	89.61	113.18
1	c	417	LEU	N-CA-C	-9.94	90.68	108.47
1	j	290	SER	N-CA-C	9.94	121.88	111.14
1	f	290	SER	N-CA-C	9.93	121.87	111.14
1	c	30	ARG	N-CA-C	-9.93	100.27	112.38
1	a	417	LEU	N-CA-C	-9.93	90.70	108.47
1	b	30	ARG	N-CA-C	-9.92	100.28	112.38
1	j	417	LEU	N-CA-C	-9.92	90.71	108.47
1	d	417	LEU	N-CA-C	-9.92	90.72	108.47
1	g	417	LEU	N-CA-C	-9.91	90.72	108.47
1	i	30	ARG	N-CA-C	-9.90	100.31	112.38
1	a	30	ARG	N-CA-C	-9.89	100.31	112.38
1	f	30	ARG	N-CA-C	-9.89	100.31	112.38
1	e	417	LEU	N-CA-C	-9.89	90.76	108.47
1	f	417	LEU	N-CA-C	-9.89	90.77	108.47
1	h	417	LEU	N-CA-C	-9.89	90.77	108.47
1	g	30	ARG	N-CA-C	-9.88	100.33	112.38
1	l	417	LEU	N-CA-C	-9.88	90.78	108.47
1	b	417	LEU	N-CA-C	-9.88	90.79	108.47
1	e	30	ARG	N-CA-C	-9.88	100.33	112.38
1	k	417	LEU	N-CA-C	-9.88	90.79	108.47
1	h	30	ARG	N-CA-C	-9.88	100.33	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j	30	ARG	N-CA-C	-9.82	100.40	112.38
1	a	371	ALA	CA-C-N	-9.79	102.84	121.54
1	a	371	ALA	C-N-CA	-9.79	102.84	121.54
1	l	286	ILE	N-CA-C	9.64	119.59	110.53
1	l	265	GLY	N-CA-C	9.61	122.61	111.36
1	c	265	GLY	N-CA-C	9.60	122.59	111.36
1	c	286	ILE	N-CA-C	9.60	119.55	110.53
1	e	265	GLY	N-CA-C	9.59	122.58	111.36
1	h	286	ILE	N-CA-C	9.58	119.54	110.53
1	f	286	ILE	N-CA-C	9.58	119.54	110.53
1	d	265	GLY	N-CA-C	9.58	122.57	111.36
1	h	265	GLY	N-CA-C	9.58	122.57	111.36
1	e	286	ILE	N-CA-C	9.57	119.52	110.53
1	j	265	GLY	N-CA-C	9.57	122.55	111.36
1	b	265	GLY	N-CA-C	9.56	122.55	111.36
1	j	286	ILE	N-CA-C	9.56	119.52	110.53
1	a	265	GLY	N-CA-C	9.56	122.54	111.36
1	k	286	ILE	N-CA-C	9.55	119.51	110.53
1	i	265	GLY	N-CA-C	9.55	122.53	111.36
1	d	286	ILE	N-CA-C	9.55	119.51	110.53
1	b	286	ILE	N-CA-C	9.55	119.50	110.53
1	g	286	ILE	N-CA-C	9.55	119.50	110.53
1	k	265	GLY	N-CA-C	9.55	122.53	111.36
1	g	265	GLY	N-CA-C	9.54	122.52	111.36
1	i	286	ILE	N-CA-C	9.53	119.48	110.53
1	f	265	GLY	N-CA-C	9.47	122.44	111.36
1	a	286	ILE	N-CA-C	9.47	119.43	110.53
1	g	15	SER	CA-C-N	8.93	136.36	122.70
1	g	15	SER	C-N-CA	8.93	136.36	122.70
1	k	15	SER	CA-C-N	8.93	136.36	122.70
1	k	15	SER	C-N-CA	8.93	136.36	122.70
1	f	15	SER	CA-C-N	8.91	136.33	122.70
1	f	15	SER	C-N-CA	8.91	136.33	122.70
1	h	15	SER	CA-C-N	8.90	136.32	122.70
1	h	15	SER	C-N-CA	8.90	136.32	122.70
1	a	15	SER	CA-C-N	8.90	136.31	122.70
1	a	15	SER	C-N-CA	8.90	136.31	122.70
1	b	15	SER	CA-C-N	8.89	136.31	122.70
1	b	15	SER	C-N-CA	8.89	136.31	122.70
1	e	15	SER	CA-C-N	8.89	136.31	122.70
1	e	15	SER	C-N-CA	8.89	136.31	122.70
1	c	15	SER	CA-C-N	8.87	136.27	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	15	SER	C-N-CA	8.87	136.27	122.70
1	l	15	SER	CA-C-N	8.87	136.27	122.70
1	l	15	SER	C-N-CA	8.87	136.27	122.70
1	j	15	SER	CA-C-N	8.86	136.25	122.70
1	j	15	SER	C-N-CA	8.86	136.25	122.70
1	d	15	SER	CA-C-N	8.85	136.24	122.70
1	d	15	SER	C-N-CA	8.85	136.24	122.70
1	i	15	SER	CA-C-N	8.85	136.24	122.70
1	i	15	SER	C-N-CA	8.85	136.24	122.70
1	j	414	ILE	CA-C-N	8.79	128.81	119.05
1	j	414	ILE	C-N-CA	8.79	128.81	119.05
1	c	414	ILE	CA-C-N	8.78	128.79	119.05
1	c	414	ILE	C-N-CA	8.78	128.79	119.05
1	d	99	ASP	C-N-CD	8.75	139.86	120.60
1	b	414	ILE	CA-C-N	8.75	128.76	119.05
1	b	414	ILE	C-N-CA	8.75	128.76	119.05
1	i	99	ASP	C-N-CD	8.73	139.80	120.60
1	h	414	ILE	CA-C-N	8.72	128.73	119.05
1	h	414	ILE	C-N-CA	8.72	128.73	119.05
1	a	414	ILE	CA-C-N	8.72	128.73	119.05
1	a	414	ILE	C-N-CA	8.72	128.73	119.05
1	e	414	ILE	CA-C-N	8.72	128.73	119.05
1	e	414	ILE	C-N-CA	8.72	128.73	119.05
1	j	99	ASP	C-N-CD	8.71	139.76	120.60
1	l	99	ASP	C-N-CD	8.71	139.76	120.60
1	f	99	ASP	C-N-CD	8.71	139.75	120.60
1	k	99	ASP	C-N-CD	8.70	139.74	120.60
1	a	99	ASP	C-N-CD	8.70	139.73	120.60
1	i	414	ILE	CA-C-N	8.69	128.70	119.05
1	i	414	ILE	C-N-CA	8.69	128.70	119.05
1	l	414	ILE	CA-C-N	8.69	128.70	119.05
1	l	414	ILE	C-N-CA	8.69	128.70	119.05
1	h	99	ASP	C-N-CD	8.69	139.72	120.60
1	k	414	ILE	CA-C-N	8.69	128.70	119.05
1	k	414	ILE	C-N-CA	8.69	128.70	119.05
1	b	99	ASP	C-N-CD	8.69	139.71	120.60
1	g	414	ILE	CA-C-N	8.68	128.69	119.05
1	g	414	ILE	C-N-CA	8.68	128.69	119.05
1	e	99	ASP	C-N-CD	8.68	139.70	120.60
1	f	414	ILE	CA-C-N	8.67	128.67	119.05
1	f	414	ILE	C-N-CA	8.67	128.67	119.05
1	g	99	ASP	C-N-CD	8.67	139.67	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	99	ASP	C-N-CD	8.67	139.66	120.60
1	d	414	ILE	CA-C-N	8.64	128.65	119.05
1	d	414	ILE	C-N-CA	8.64	128.65	119.05
1	c	56	THR	N-CA-C	8.60	118.03	108.14
1	l	56	THR	N-CA-C	8.58	118.01	108.14
1	d	140	ALA	N-CA-C	8.47	121.88	110.35
1	h	140	ALA	N-CA-C	8.44	121.83	110.35
1	a	140	ALA	N-CA-C	8.43	121.82	110.35
1	b	140	ALA	N-CA-C	8.43	121.82	110.35
1	i	140	ALA	N-CA-C	8.43	121.81	110.35
1	f	140	ALA	N-CA-C	8.42	121.80	110.35
1	g	140	ALA	N-CA-C	8.42	121.80	110.35
1	k	140	ALA	N-CA-C	8.41	121.79	110.35
1	e	140	ALA	N-CA-C	8.41	121.78	110.35
1	c	140	ALA	N-CA-C	8.40	121.78	110.35
1	l	140	ALA	N-CA-C	8.40	121.78	110.35
1	j	140	ALA	N-CA-C	8.38	121.75	110.35
1	f	417	LEU	CA-C-N	8.30	130.22	119.84
1	f	417	LEU	C-N-CA	8.30	130.22	119.84
1	h	417	LEU	CA-C-N	8.29	130.21	119.84
1	h	417	LEU	C-N-CA	8.29	130.21	119.84
1	f	24	ARG	N-CA-C	8.28	122.96	113.02
1	i	24	ARG	N-CA-C	8.28	122.96	113.02
1	j	417	LEU	CA-C-N	8.28	130.19	119.84
1	j	417	LEU	C-N-CA	8.28	130.19	119.84
1	l	417	LEU	CA-C-N	8.28	130.19	119.84
1	l	417	LEU	C-N-CA	8.28	130.19	119.84
1	a	417	LEU	CA-C-N	8.27	130.18	119.84
1	a	417	LEU	C-N-CA	8.27	130.18	119.84
1	i	417	LEU	CA-C-N	8.27	130.18	119.84
1	i	417	LEU	C-N-CA	8.27	130.18	119.84
1	d	417	LEU	CA-C-N	8.26	130.16	119.84
1	d	417	LEU	C-N-CA	8.26	130.16	119.84
1	l	24	ARG	N-CA-C	8.26	122.93	113.02
1	g	417	LEU	CA-C-N	8.25	130.15	119.84
1	g	417	LEU	C-N-CA	8.25	130.15	119.84
1	k	24	ARG	N-CA-C	8.25	122.92	113.02
1	b	417	LEU	CA-C-N	8.24	130.14	119.84
1	b	417	LEU	C-N-CA	8.24	130.14	119.84
1	h	24	ARG	N-CA-C	8.24	122.91	113.02
1	c	417	LEU	CA-C-N	8.24	130.14	119.84
1	c	417	LEU	C-N-CA	8.24	130.14	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	417	LEU	CA-C-N	8.24	130.14	119.84
1	k	417	LEU	C-N-CA	8.24	130.14	119.84
1	g	24	ARG	N-CA-C	8.21	122.88	113.02
1	b	24	ARG	N-CA-C	8.21	122.87	113.02
1	j	24	ARG	N-CA-C	8.21	122.87	113.02
1	e	417	LEU	CA-C-N	8.20	130.09	119.84
1	e	417	LEU	C-N-CA	8.20	130.09	119.84
1	c	24	ARG	N-CA-C	8.19	122.85	113.02
1	e	24	ARG	N-CA-C	8.19	122.85	113.02
1	d	24	ARG	N-CA-C	8.16	122.81	113.02
1	a	24	ARG	N-CA-C	8.14	122.79	113.02
1	h	370	THR	CA-C-N	-8.13	109.24	120.38
1	h	370	THR	C-N-CA	-8.13	109.24	120.38
1	f	370	THR	CA-C-N	-8.07	109.32	120.38
1	f	370	THR	C-N-CA	-8.07	109.32	120.38
1	i	370	THR	CA-C-N	-8.06	109.34	120.38
1	i	370	THR	C-N-CA	-8.06	109.34	120.38
1	g	370	THR	CA-C-N	-8.02	109.40	120.38
1	g	370	THR	C-N-CA	-8.02	109.40	120.38
1	b	261	GLY	CA-C-N	7.90	136.63	121.54
1	b	261	GLY	C-N-CA	7.90	136.63	121.54
1	e	261	GLY	CA-C-N	7.89	136.62	121.54
1	e	261	GLY	C-N-CA	7.89	136.62	121.54
1	c	261	GLY	CA-C-N	7.89	136.61	121.54
1	c	261	GLY	C-N-CA	7.89	136.61	121.54
1	f	261	GLY	CA-C-N	7.89	136.60	121.54
1	f	261	GLY	C-N-CA	7.89	136.60	121.54
1	j	370	THR	CA-C-N	-7.88	109.59	120.38
1	j	370	THR	C-N-CA	-7.88	109.59	120.38
1	h	261	GLY	CA-C-N	7.87	136.57	121.54
1	h	261	GLY	C-N-CA	7.87	136.57	121.54
1	i	144	LEU	N-CA-C	7.87	120.09	108.60
1	l	144	LEU	N-CA-C	7.87	120.08	108.60
1	j	261	GLY	CA-C-N	7.87	136.56	121.54
1	j	261	GLY	C-N-CA	7.87	136.56	121.54
1	e	370	THR	CA-C-N	-7.86	109.61	120.38
1	e	370	THR	C-N-CA	-7.86	109.61	120.38
1	g	261	GLY	CA-C-N	7.86	136.56	121.54
1	g	261	GLY	C-N-CA	7.86	136.56	121.54
1	k	261	GLY	CA-C-N	7.86	136.55	121.54
1	k	261	GLY	C-N-CA	7.86	136.55	121.54
1	l	261	GLY	CA-C-N	7.85	136.54	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	261	GLY	C-N-CA	7.85	136.54	121.54
1	i	261	GLY	CA-C-N	7.85	136.54	121.54
1	i	261	GLY	C-N-CA	7.85	136.54	121.54
1	c	144	LEU	N-CA-C	7.85	120.06	108.60
1	e	144	LEU	N-CA-C	7.85	120.06	108.60
1	d	396	LEU	N-CA-C	7.85	123.04	111.34
1	j	396	LEU	N-CA-C	7.85	123.03	111.34
1	d	144	LEU	N-CA-C	7.84	120.05	108.60
1	b	144	LEU	N-CA-C	7.83	120.03	108.60
1	d	261	GLY	CA-C-N	7.83	136.50	121.54
1	d	261	GLY	C-N-CA	7.83	136.50	121.54
1	c	396	LEU	N-CA-C	7.83	123.00	111.34
1	a	261	GLY	CA-C-N	7.82	136.48	121.54
1	a	261	GLY	C-N-CA	7.82	136.48	121.54
1	k	396	LEU	N-CA-C	7.82	123.00	111.34
1	a	56	THR	N-CA-C	7.82	117.31	108.25
1	k	144	LEU	N-CA-C	7.82	120.01	108.60
1	j	144	LEU	N-CA-C	7.81	120.01	108.60
1	i	396	LEU	N-CA-C	7.81	122.97	111.34
1	g	396	LEU	N-CA-C	7.80	122.97	111.34
1	b	396	LEU	N-CA-C	7.80	122.97	111.34
1	h	144	LEU	N-CA-C	7.80	119.99	108.60
1	h	396	LEU	N-CA-C	7.80	122.97	111.34
1	a	396	LEU	N-CA-C	7.80	122.96	111.34
1	g	144	LEU	N-CA-C	7.79	119.98	108.60
1	f	396	LEU	N-CA-C	7.79	122.95	111.34
1	a	144	LEU	N-CA-C	7.79	119.97	108.60
1	f	144	LEU	N-CA-C	7.78	119.95	108.60
1	e	396	LEU	N-CA-C	7.77	122.92	111.34
1	l	396	LEU	N-CA-C	7.77	122.92	111.34
1	c	370	THR	CA-C-N	-7.75	109.76	120.38
1	c	370	THR	C-N-CA	-7.75	109.76	120.38
1	k	370	THR	CA-C-N	-7.73	109.79	120.38
1	k	370	THR	C-N-CA	-7.73	109.79	120.38
1	d	370	THR	CA-C-N	-7.71	109.81	120.38
1	d	370	THR	C-N-CA	-7.71	109.81	120.38
1	l	370	THR	CA-C-N	-7.65	109.90	120.38
1	l	370	THR	C-N-CA	-7.65	109.90	120.38
1	g	56	THR	N-CA-C	7.63	116.92	108.14
1	j	371	ALA	N-CA-C	7.62	120.54	111.33
1	j	56	THR	N-CA-C	7.60	116.88	108.14
1	c	371	ALA	N-CA-C	7.60	120.53	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f	371	ALA	N-CA-C	7.60	120.53	111.33
1	l	371	ALA	N-CA-C	7.58	120.50	111.33
1	e	371	ALA	N-CA-C	7.57	120.49	111.33
1	g	371	ALA	N-CA-C	7.57	120.49	111.33
1	h	371	ALA	N-CA-C	7.54	120.46	111.33
1	k	371	ALA	N-CA-C	7.54	120.45	111.33
1	e	86	LEU	CA-C-N	7.54	137.22	122.07
1	e	86	LEU	C-N-CA	7.54	137.22	122.07
1	c	86	LEU	CA-C-N	7.53	137.21	122.07
1	c	86	LEU	C-N-CA	7.53	137.21	122.07
1	j	86	LEU	CA-C-N	7.53	137.21	122.07
1	j	86	LEU	C-N-CA	7.53	137.21	122.07
1	a	86	LEU	CA-C-N	7.53	137.20	122.07
1	a	86	LEU	C-N-CA	7.53	137.20	122.07
1	h	86	LEU	CA-C-N	7.52	137.19	122.07
1	h	86	LEU	C-N-CA	7.52	137.19	122.07
1	d	86	LEU	CA-C-N	7.52	137.18	122.07
1	d	86	LEU	C-N-CA	7.52	137.18	122.07
1	b	86	LEU	CA-C-N	7.51	137.16	122.07
1	b	86	LEU	C-N-CA	7.51	137.16	122.07
1	i	86	LEU	CA-C-N	7.50	137.15	122.07
1	i	86	LEU	C-N-CA	7.50	137.15	122.07
1	l	86	LEU	CA-C-N	7.50	137.14	122.07
1	l	86	LEU	C-N-CA	7.50	137.14	122.07
1	d	371	ALA	N-CA-C	7.49	120.39	111.33
1	f	86	LEU	CA-C-N	7.49	137.12	122.07
1	f	86	LEU	C-N-CA	7.49	137.12	122.07
1	i	371	ALA	N-CA-C	7.49	120.39	111.33
1	g	86	LEU	CA-C-N	7.49	137.12	122.07
1	g	86	LEU	C-N-CA	7.49	137.12	122.07
1	k	86	LEU	CA-C-N	7.48	137.11	122.07
1	k	86	LEU	C-N-CA	7.48	137.11	122.07
1	h	56	THR	N-CA-C	7.47	116.73	108.14
1	k	56	THR	N-CA-C	7.46	116.72	108.14
1	a	54	TYR	N-CA-C	7.45	120.39	109.07
1	b	56	THR	N-CA-C	7.45	116.71	108.14
1	j	145	LEU	N-CA-C	7.28	126.31	110.80
1	e	145	LEU	N-CA-C	7.28	126.30	110.80
1	c	145	LEU	N-CA-C	7.27	126.28	110.80
1	h	145	LEU	N-CA-C	7.26	126.27	110.80
1	d	145	LEU	N-CA-C	7.26	126.26	110.80
1	f	145	LEU	N-CA-C	7.25	126.24	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	145	LEU	N-CA-C	7.24	126.23	110.80
1	b	145	LEU	N-CA-C	7.24	126.22	110.80
1	l	145	LEU	N-CA-C	7.24	126.22	110.80
1	a	145	LEU	N-CA-C	7.23	126.20	110.80
1	i	145	LEU	N-CA-C	7.23	126.20	110.80
1	g	145	LEU	N-CA-C	7.23	126.20	110.80
1	c	19	ARG	CA-C-N	-7.16	110.68	120.28
1	c	19	ARG	C-N-CA	-7.16	110.68	120.28
1	a	19	ARG	CA-C-N	-7.15	110.69	120.28
1	a	19	ARG	C-N-CA	-7.15	110.69	120.28
1	d	19	ARG	CA-C-N	-7.15	110.70	120.28
1	d	19	ARG	C-N-CA	-7.15	110.70	120.28
1	i	19	ARG	CA-C-N	-7.15	110.70	120.28
1	i	19	ARG	C-N-CA	-7.15	110.70	120.28
1	g	19	ARG	CA-C-N	-7.14	110.71	120.28
1	g	19	ARG	C-N-CA	-7.14	110.71	120.28
1	f	19	ARG	CA-C-N	-7.13	110.72	120.28
1	f	19	ARG	C-N-CA	-7.13	110.72	120.28
1	k	19	ARG	CA-C-N	-7.11	110.76	120.28
1	k	19	ARG	C-N-CA	-7.11	110.76	120.28
1	b	19	ARG	CA-C-N	-7.10	110.76	120.28
1	b	19	ARG	C-N-CA	-7.10	110.76	120.28
1	e	19	ARG	CA-C-N	-7.10	110.76	120.28
1	e	19	ARG	C-N-CA	-7.10	110.76	120.28
1	j	19	ARG	CA-C-N	-7.09	110.78	120.28
1	j	19	ARG	C-N-CA	-7.09	110.78	120.28
1	l	19	ARG	CA-C-N	-7.08	110.79	120.28
1	l	19	ARG	C-N-CA	-7.08	110.79	120.28
1	h	19	ARG	CA-C-N	-7.07	110.81	120.28
1	h	19	ARG	C-N-CA	-7.07	110.81	120.28
1	i	256	MET	N-CA-C	7.04	125.80	110.80
1	k	256	MET	N-CA-C	7.04	125.79	110.80
1	a	256	MET	N-CA-C	7.03	125.78	110.80
1	g	256	MET	N-CA-C	7.03	125.78	110.80
1	i	71	SER	N-CA-C	-7.03	103.62	111.28
1	l	71	SER	N-CA-C	-7.02	103.62	111.28
1	e	71	SER	N-CA-C	-7.02	103.62	111.28
1	j	256	MET	N-CA-C	7.02	125.76	110.80
1	d	256	MET	N-CA-C	7.02	125.75	110.80
1	h	256	MET	N-CA-C	7.02	125.75	110.80
1	e	256	MET	N-CA-C	7.01	125.73	110.80
1	d	71	SER	N-CA-C	-7.01	103.64	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	256	MET	N-CA-C	7.00	125.72	110.80
1	b	256	MET	N-CA-C	7.00	125.71	110.80
1	l	256	MET	N-CA-C	7.00	125.70	110.80
1	j	403	VAL	N-CA-C	6.98	117.09	110.53
1	f	256	MET	N-CA-C	6.98	125.66	110.80
1	k	34	CYS	N-CA-C	-6.98	103.67	111.28
1	a	71	SER	N-CA-C	-6.97	103.68	111.28
1	g	71	SER	N-CA-C	-6.96	103.69	111.28
1	d	403	VAL	N-CA-C	6.96	117.07	110.53
1	b	71	SER	N-CA-C	-6.95	103.70	111.28
1	c	403	VAL	N-CA-C	6.95	117.07	110.53
1	f	71	SER	N-CA-C	-6.95	103.70	111.28
1	f	403	VAL	N-CA-C	6.95	117.07	110.53
1	e	34	CYS	N-CA-C	-6.95	103.70	111.28
1	d	34	CYS	N-CA-C	-6.94	103.72	111.28
1	h	403	VAL	N-CA-C	6.94	117.05	110.53
1	h	71	SER	N-CA-C	-6.93	103.72	111.28
1	i	34	CYS	N-CA-C	-6.93	103.72	111.28
1	i	403	VAL	N-CA-C	6.93	117.04	110.53
1	b	403	VAL	N-CA-C	6.93	117.04	110.53
1	e	403	VAL	N-CA-C	6.92	117.04	110.53
1	c	71	SER	N-CA-C	-6.92	103.73	111.28
1	g	20	LEU	N-CA-C	6.92	118.82	111.28
1	k	71	SER	N-CA-C	-6.92	103.74	111.28
1	k	403	VAL	N-CA-C	6.92	117.03	110.53
1	l	403	VAL	N-CA-C	6.91	117.03	110.53
1	a	20	LEU	N-CA-C	6.91	118.81	111.28
1	j	71	SER	N-CA-C	-6.91	103.75	111.28
1	h	34	CYS	N-CA-C	-6.90	103.76	111.28
1	l	34	CYS	N-CA-C	-6.89	103.77	111.28
1	f	20	LEU	N-CA-C	6.89	118.79	111.28
1	d	20	LEU	N-CA-C	6.88	118.78	111.28
1	d	353	SER	N-CA-C	6.88	118.43	111.07
1	f	34	CYS	N-CA-C	-6.88	103.78	111.28
1	h	20	LEU	N-CA-C	6.88	118.77	111.28
1	c	34	CYS	N-CA-C	-6.87	103.80	111.28
1	j	20	LEU	N-CA-C	6.87	118.76	111.28
1	b	34	CYS	N-CA-C	-6.86	103.80	111.28
1	i	20	LEU	N-CA-C	6.86	118.76	111.28
1	j	34	CYS	N-CA-C	-6.86	103.80	111.28
1	b	20	LEU	N-CA-C	6.85	118.75	111.28
1	c	20	LEU	N-CA-C	6.85	118.75	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	20	LEU	N-CA-C	6.85	118.74	111.28
1	k	412	GLN	N-CA-C	-6.84	99.69	109.96
1	l	20	LEU	N-CA-C	6.84	118.74	111.28
1	l	412	GLN	N-CA-C	-6.84	99.69	109.96
1	c	353	SER	N-CA-C	6.84	118.39	111.07
1	g	34	CYS	N-CA-C	-6.84	103.82	111.28
1	a	403	VAL	N-CA-C	6.84	116.96	110.53
1	a	412	GLN	N-CA-C	-6.84	99.70	109.96
1	f	353	SER	N-CA-C	6.84	118.39	111.07
1	a	34	CYS	N-CA-C	-6.84	103.83	111.28
1	j	412	GLN	N-CA-C	-6.83	99.72	109.96
1	i	412	GLN	N-CA-C	-6.83	99.72	109.96
1	b	353	SER	N-CA-C	6.83	118.37	111.07
1	l	353	SER	N-CA-C	6.83	118.37	111.07
1	g	403	VAL	N-CA-C	6.82	116.94	110.53
1	e	412	GLN	N-CA-C	-6.81	99.74	109.96
1	k	353	SER	N-CA-C	6.81	118.36	111.07
1	j	353	SER	N-CA-C	6.81	118.36	111.07
1	g	412	GLN	N-CA-C	-6.81	99.75	109.96
1	i	353	SER	N-CA-C	6.80	118.35	111.07
1	e	353	SER	N-CA-C	6.80	118.35	111.07
1	a	353	SER	N-CA-C	6.80	118.35	111.07
1	b	412	GLN	N-CA-C	-6.80	99.76	109.96
1	g	353	SER	N-CA-C	6.80	118.34	111.07
1	f	143	VAL	N-CA-C	6.79	119.22	108.89
1	h	252	ILE	CB-CA-C	-6.79	102.87	110.68
1	h	412	GLN	N-CA-C	-6.79	99.78	109.96
1	c	252	ILE	CB-CA-C	-6.79	102.88	110.68
1	j	252	ILE	CB-CA-C	-6.78	102.88	110.68
1	l	143	VAL	N-CA-C	6.78	119.20	108.89
1	f	252	ILE	CB-CA-C	-6.77	102.89	110.68
1	c	412	GLN	N-CA-C	-6.76	99.81	109.96
1	h	353	SER	N-CA-C	6.76	118.31	111.07
1	e	20	LEU	N-CA-C	6.76	118.65	111.28
1	f	412	GLN	N-CA-C	-6.76	99.82	109.96
1	k	36	GLN	N-CA-C	6.76	118.64	111.28
1	g	143	VAL	N-CA-C	6.75	119.16	108.89
1	b	252	ILE	CB-CA-C	-6.75	102.92	110.68
1	d	412	GLN	N-CA-C	-6.75	99.84	109.96
1	i	143	VAL	N-CA-C	6.75	119.15	108.89
1	j	143	VAL	N-CA-C	6.74	119.14	108.89
1	h	143	VAL	N-CA-C	6.73	119.12	108.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	252	ILE	CB-CA-C	-6.73	102.94	110.68
1	j	313	LYS	N-CA-C	6.73	118.61	111.28
1	l	36	GLN	N-CA-C	6.73	118.62	111.28
1	f	313	LYS	N-CA-C	6.73	118.61	111.28
1	a	143	VAL	N-CA-C	6.72	119.10	108.89
1	a	36	GLN	N-CA-C	6.72	118.60	111.28
1	d	143	VAL	N-CA-C	6.72	119.10	108.89
1	e	143	VAL	N-CA-C	6.72	119.10	108.89
1	g	252	ILE	CB-CA-C	-6.72	102.96	110.68
1	j	36	GLN	N-CA-C	6.71	118.60	111.28
1	a	313	LYS	N-CA-C	6.71	118.59	111.28
1	b	313	LYS	N-CA-C	6.71	118.59	111.28
1	c	36	GLN	N-CA-C	6.71	118.59	111.28
1	b	143	VAL	N-CA-C	6.70	119.07	108.89
1	k	313	LYS	N-CA-C	6.70	118.58	111.28
1	e	313	LYS	N-CA-C	6.70	118.58	111.28
1	g	313	LYS	N-CA-C	6.70	118.58	111.28
1	l	252	ILE	CB-CA-C	-6.69	102.98	110.68
1	c	143	VAL	N-CA-C	6.69	119.06	108.89
1	b	36	GLN	N-CA-C	6.69	118.57	111.28
1	d	313	LYS	N-CA-C	6.69	118.57	111.28
1	h	36	GLN	N-CA-C	6.69	118.57	111.28
1	i	313	LYS	N-CA-C	6.69	118.57	111.28
1	e	252	ILE	CB-CA-C	-6.69	102.99	110.68
1	k	143	VAL	N-CA-C	6.69	119.05	108.89
1	d	252	ILE	CB-CA-C	-6.68	103.00	110.68
1	c	313	LYS	N-CA-C	6.67	118.56	111.28
1	e	36	GLN	N-CA-C	6.67	118.56	111.28
1	g	36	GLN	N-CA-C	6.67	118.56	111.28
1	a	252	ILE	CB-CA-C	-6.67	103.01	110.68
1	h	313	LYS	N-CA-C	6.67	118.55	111.28
1	i	252	ILE	CB-CA-C	-6.66	103.02	110.68
1	l	313	LYS	N-CA-C	6.66	118.54	111.28
1	f	36	GLN	N-CA-C	6.65	118.53	111.28
1	g	240	SER	N-CA-C	6.58	120.56	110.36
1	b	240	SER	N-CA-C	6.58	120.55	110.36
1	f	240	SER	N-CA-C	6.57	120.54	110.36
1	i	240	SER	N-CA-C	6.56	120.53	110.36
1	d	339	THR	N-CA-C	6.55	118.08	111.07
1	b	339	THR	N-CA-C	6.54	118.07	111.07
1	l	240	SER	N-CA-C	6.54	120.49	110.36
1	e	240	SER	N-CA-C	6.53	120.48	110.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	240	SER	N-CA-C	6.53	120.48	110.36
1	j	339	THR	N-CA-C	6.53	118.05	111.07
1	i	339	THR	N-CA-C	6.52	118.05	111.07
1	j	240	SER	N-CA-C	6.52	120.47	110.36
1	k	240	SER	N-CA-C	6.51	120.45	110.36
1	c	106	VAL	N-CA-C	-6.51	104.15	110.72
1	d	240	SER	N-CA-C	6.51	120.45	110.36
1	h	240	SER	N-CA-C	6.51	120.45	110.36
1	g	257	VAL	N-CA-C	6.50	120.04	113.47
1	a	240	SER	N-CA-C	6.50	120.43	110.36
1	e	106	VAL	N-CA-C	-6.49	104.16	110.72
1	e	339	THR	N-CA-C	6.49	118.02	111.07
1	c	257	VAL	N-CA-C	6.49	120.03	113.47
1	h	106	VAL	N-CA-C	-6.49	104.17	110.72
1	g	106	VAL	N-CA-C	-6.48	104.17	110.72
1	i	257	VAL	N-CA-C	6.48	120.02	113.47
1	b	106	VAL	N-CA-C	-6.48	104.18	110.72
1	a	106	VAL	N-CA-C	-6.48	104.18	110.72
1	g	339	THR	N-CA-C	6.48	118.00	111.07
1	c	339	THR	N-CA-C	6.47	118.00	111.07
1	f	339	THR	N-CA-C	6.47	117.99	111.07
1	e	257	VAL	N-CA-C	6.46	120.00	113.47
1	k	257	VAL	N-CA-C	6.46	120.00	113.47
1	h	339	THR	N-CA-C	6.46	117.98	111.07
1	i	292	ILE	N-CA-C	6.45	117.23	110.72
1	l	106	VAL	N-CA-C	-6.44	104.21	110.72
1	f	106	VAL	N-CA-C	-6.44	104.22	110.72
1	k	106	VAL	N-CA-C	-6.43	104.22	110.72
1	a	339	THR	N-CA-C	6.43	117.95	111.07
1	k	339	THR	N-CA-C	6.42	117.94	111.07
1	f	257	VAL	N-CA-C	6.42	119.95	113.47
1	l	257	VAL	N-CA-C	6.42	119.95	113.47
1	j	106	VAL	N-CA-C	-6.41	104.25	110.72
1	h	257	VAL	N-CA-C	6.41	119.94	113.47
1	l	339	THR	N-CA-C	6.40	117.92	111.07
1	b	257	VAL	N-CA-C	6.40	119.93	113.47
1	d	292	ILE	N-CA-C	6.40	117.18	110.72
1	d	106	VAL	N-CA-C	-6.38	104.28	110.72
1	d	257	VAL	N-CA-C	6.38	119.91	113.47
1	l	15	SER	O-C-N	6.36	130.46	123.27
1	i	106	VAL	N-CA-C	-6.36	104.30	110.72
1	j	257	VAL	N-CA-C	6.36	119.89	113.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j	15	SER	O-C-N	6.36	130.45	123.27
1	h	292	ILE	N-CA-C	6.34	117.13	110.72
1	g	292	ILE	N-CA-C	6.33	117.12	110.72
1	a	292	ILE	N-CA-C	6.33	117.11	110.72
1	j	292	ILE	N-CA-C	6.31	117.09	110.72
1	l	292	ILE	N-CA-C	6.31	117.10	110.72
1	a	257	VAL	N-CA-C	6.31	119.84	113.47
1	f	292	ILE	N-CA-C	6.30	117.09	110.72
1	b	292	ILE	N-CA-C	6.30	117.08	110.72
1	c	15	SER	O-C-N	6.29	130.38	123.27
1	f	15	SER	O-C-N	6.28	130.37	123.27
1	a	15	SER	O-C-N	6.28	130.36	123.27
1	b	15	SER	O-C-N	6.28	130.36	123.27
1	i	15	SER	O-C-N	6.28	130.36	123.27
1	e	292	ILE	N-CA-C	6.27	117.05	110.72
1	c	292	ILE	N-CA-C	6.26	117.04	110.72
1	d	15	SER	O-C-N	6.26	130.34	123.27
1	g	15	SER	O-C-N	6.25	130.33	123.27
1	h	15	SER	O-C-N	6.25	130.33	123.27
1	k	292	ILE	N-CA-C	6.23	117.02	110.72
1	e	15	SER	O-C-N	6.22	130.29	123.27
1	k	15	SER	O-C-N	6.21	130.29	123.27
1	a	25	ALA	N-CA-C	6.21	121.19	112.75
1	b	25	ALA	N-CA-C	6.20	121.18	112.75
1	d	25	ALA	N-CA-C	6.19	121.17	112.75
1	f	25	ALA	N-CA-C	6.17	121.15	112.75
1	i	25	ALA	N-CA-C	6.17	121.14	112.75
1	j	25	ALA	N-CA-C	6.17	121.14	112.75
1	k	25	ALA	N-CA-C	6.16	121.13	112.75
1	h	25	ALA	N-CA-C	6.14	121.10	112.75
1	l	25	ALA	N-CA-C	6.14	121.09	112.75
1	a	40	PRO	N-CA-C	-6.13	101.55	110.80
1	c	25	ALA	N-CA-C	6.13	121.08	112.75
1	i	242	GLY	N-CA-C	-6.10	98.72	113.18
1	k	242	GLY	N-CA-C	-6.10	98.72	113.18
1	j	40	PRO	N-CA-C	-6.10	101.59	110.80
1	a	262	GLU	N-CA-C	-6.10	97.81	110.80
1	h	242	GLY	N-CA-C	-6.10	98.73	113.18
1	g	25	ALA	N-CA-C	6.10	121.04	112.75
1	d	262	GLU	N-CA-C	-6.09	97.82	110.80
1	h	262	GLU	N-CA-C	-6.09	97.82	110.80
1	a	242	GLY	N-CA-C	-6.09	98.75	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g	262	GLU	N-CA-C	-6.09	97.83	110.80
1	e	25	ALA	N-CA-C	6.08	121.02	112.75
1	g	242	GLY	N-CA-C	-6.08	98.76	113.18
1	f	262	GLU	N-CA-C	-6.08	97.85	110.80
1	l	242	GLY	N-CA-C	-6.08	98.78	113.18
1	e	262	GLU	N-CA-C	-6.08	97.86	110.80
1	e	242	GLY	N-CA-C	-6.07	98.79	113.18
1	l	262	GLU	N-CA-C	-6.07	97.87	110.80
1	b	242	GLY	N-CA-C	-6.07	98.80	113.18
1	c	262	GLU	N-CA-C	-6.07	97.88	110.80
1	d	40	PRO	N-CA-C	-6.07	101.64	110.80
1	j	242	GLY	N-CA-C	-6.07	98.81	113.18
1	k	262	GLU	N-CA-C	-6.07	97.88	110.80
1	c	242	GLY	N-CA-C	-6.06	98.81	113.18
1	d	242	GLY	N-CA-C	-6.06	98.81	113.18
1	f	242	GLY	N-CA-C	-6.06	98.81	113.18
1	b	262	GLU	N-CA-C	-6.06	97.89	110.80
1	j	262	GLU	N-CA-C	-6.04	97.92	110.80
1	e	40	PRO	N-CA-C	-6.04	101.68	110.80
1	k	40	PRO	N-CA-C	-6.04	101.67	110.80
1	i	40	PRO	N-CA-C	-6.04	101.69	110.80
1	g	40	PRO	N-CA-C	-6.03	101.69	110.80
1	l	40	PRO	N-CA-C	-6.03	101.69	110.80
1	i	425	THR	N-CA-C	6.03	121.01	108.53
1	i	262	GLU	N-CA-C	-6.02	97.97	110.80
1	l	425	THR	N-CA-C	6.02	120.99	108.53
1	h	40	PRO	N-CA-C	-6.02	101.71	110.80
1	b	40	PRO	N-CA-C	-6.02	101.71	110.80
1	b	425	THR	N-CA-C	6.02	120.98	108.53
1	g	425	THR	N-CA-C	6.02	120.99	108.53
1	j	425	THR	N-CA-C	6.02	120.99	108.53
1	f	425	THR	N-CA-C	6.02	120.98	108.53
1	c	425	THR	N-CA-C	6.01	120.98	108.53
1	c	40	PRO	N-CA-C	-6.01	101.72	110.80
1	h	425	THR	N-CA-C	6.01	120.97	108.53
1	k	55	GLN	N-CA-C	-6.01	100.20	109.52
1	e	425	THR	N-CA-C	6.00	120.95	108.53
1	f	40	PRO	N-CA-C	-5.99	101.75	110.80
1	a	425	THR	N-CA-C	5.99	120.93	108.53
1	h	377	VAL	CB-CA-C	-5.98	104.07	112.14
1	d	36	GLN	N-CA-C	5.97	118.58	111.71
1	k	425	THR	N-CA-C	5.97	120.90	108.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d	425	THR	N-CA-C	5.97	120.89	108.53
1	i	36	GLN	N-CA-C	5.95	118.55	111.71
1	a	413	GLN	N-CA-C	5.93	123.44	110.80
1	h	413	GLN	N-CA-C	5.93	123.43	110.80
1	g	413	GLN	N-CA-C	5.92	123.41	110.80
1	j	377	VAL	CB-CA-C	-5.92	104.15	112.14
1	h	55	GLN	N-CA-C	-5.92	100.34	109.52
1	c	413	GLN	N-CA-C	5.92	123.41	110.80
1	e	413	GLN	N-CA-C	5.91	123.39	110.80
1	k	413	GLN	N-CA-C	5.91	123.38	110.80
1	i	413	GLN	N-CA-C	5.90	123.37	110.80
1	l	413	GLN	N-CA-C	5.90	123.37	110.80
1	b	413	GLN	N-CA-C	5.90	123.36	110.80
1	d	413	GLN	N-CA-C	5.89	123.36	110.80
1	e	377	VAL	CB-CA-C	-5.89	104.18	112.14
1	j	413	GLN	N-CA-C	5.89	123.36	110.80
1	d	377	VAL	CB-CA-C	-5.89	104.19	112.14
1	b	377	VAL	CB-CA-C	-5.89	104.19	112.14
1	f	413	GLN	N-CA-C	5.89	123.34	110.80
1	g	377	VAL	CB-CA-C	-5.88	104.20	112.14
1	l	377	VAL	CB-CA-C	-5.88	104.21	112.14
1	c	377	VAL	CB-CA-C	-5.87	104.21	112.14
1	g	276	LEU	N-CA-C	-5.87	104.89	111.28
1	i	377	VAL	CB-CA-C	-5.86	104.23	112.14
1	b	55	GLN	N-CA-C	-5.86	100.44	109.52
1	c	33	ASN	O-C-N	5.86	128.10	122.07
1	a	33	ASN	O-C-N	5.86	128.10	122.07
1	c	276	LEU	N-CA-C	-5.86	104.90	111.28
1	f	377	VAL	CB-CA-C	-5.85	104.24	112.14
1	l	366	GLY	N-CA-C	5.85	130.27	113.30
1	a	377	VAL	CB-CA-C	-5.84	104.25	112.14
1	h	276	LEU	N-CA-C	-5.84	104.91	111.28
1	e	33	ASN	O-C-N	5.84	128.09	122.07
1	i	33	ASN	O-C-N	5.84	128.09	122.07
1	j	276	LEU	N-CA-C	-5.83	104.92	111.28
1	k	377	VAL	CB-CA-C	-5.83	104.26	112.14
1	e	276	LEU	N-CA-C	-5.83	104.92	111.28
1	l	423	GLU	CA-C-N	5.83	127.13	119.84
1	l	423	GLU	C-N-CA	5.83	127.13	119.84
1	b	33	ASN	O-C-N	5.83	128.07	122.07
1	d	33	ASN	O-C-N	5.83	128.07	122.07
1	k	33	ASN	O-C-N	5.83	128.07	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	366	GLY	N-CA-C	5.83	130.20	113.30
1	a	423	GLU	CA-C-N	5.83	127.12	119.84
1	a	423	GLU	C-N-CA	5.83	127.12	119.84
1	b	276	LEU	N-CA-C	-5.83	104.93	111.28
1	c	366	GLY	N-CA-C	5.83	130.20	113.30
1	e	423	GLU	CA-C-N	5.83	127.12	119.84
1	e	423	GLU	C-N-CA	5.83	127.12	119.84
1	d	366	GLY	N-CA-C	5.82	130.19	113.30
1	l	276	LEU	N-CA-C	-5.82	104.93	111.28
1	i	366	GLY	N-CA-C	5.82	130.18	113.30
1	j	366	GLY	N-CA-C	5.82	130.17	113.30
1	j	33	ASN	O-C-N	5.82	128.06	122.07
1	k	276	LEU	N-CA-C	-5.82	104.94	111.28
1	f	366	GLY	N-CA-C	5.81	130.16	113.30
1	g	366	GLY	N-CA-C	5.81	130.16	113.30
1	i	276	LEU	N-CA-C	-5.81	104.95	111.28
1	b	366	GLY	N-CA-C	5.80	130.13	113.30
1	g	33	ASN	O-C-N	5.80	128.05	122.07
1	h	366	GLY	N-CA-C	5.80	130.13	113.30
1	e	366	GLY	N-CA-C	5.80	130.11	113.30
1	g	55	GLN	N-CA-C	-5.79	100.54	109.52
1	f	276	LEU	N-CA-C	-5.79	104.97	111.28
1	f	33	ASN	O-C-N	5.79	128.03	122.07
1	l	33	ASN	O-C-N	5.79	128.03	122.07
1	a	276	LEU	N-CA-C	-5.79	104.97	111.28
1	k	423	GLU	CA-C-N	5.79	127.08	119.84
1	k	423	GLU	C-N-CA	5.79	127.08	119.84
1	b	423	GLU	CA-C-N	5.78	127.06	119.84
1	b	423	GLU	C-N-CA	5.78	127.06	119.84
1	g	423	GLU	CA-C-N	5.78	127.06	119.84
1	g	423	GLU	C-N-CA	5.78	127.06	119.84
1	j	55	GLN	N-CA-C	-5.78	100.57	109.52
1	d	276	LEU	N-CA-C	-5.77	104.99	111.28
1	a	366	GLY	N-CA-C	5.77	130.02	113.30
1	c	423	GLU	CA-C-N	5.77	127.05	119.84
1	c	423	GLU	C-N-CA	5.77	127.05	119.84
1	d	423	GLU	CA-C-N	5.76	127.05	119.84
1	d	423	GLU	C-N-CA	5.76	127.05	119.84
1	i	423	GLU	CA-C-N	5.76	127.04	119.84
1	i	423	GLU	C-N-CA	5.76	127.04	119.84
1	h	423	GLU	CA-C-N	5.74	127.01	119.84
1	h	423	GLU	C-N-CA	5.74	127.01	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	33	ASN	O-C-N	5.73	127.97	122.07
1	j	423	GLU	CA-C-N	5.73	127.00	119.84
1	j	423	GLU	C-N-CA	5.73	127.00	119.84
1	f	423	GLU	CA-C-N	5.72	126.99	119.84
1	f	423	GLU	C-N-CA	5.72	126.99	119.84
1	l	88	ILE	CA-C-N	5.68	131.93	121.70
1	l	88	ILE	C-N-CA	5.68	131.93	121.70
1	g	88	ILE	CA-C-N	5.68	131.92	121.70
1	g	88	ILE	C-N-CA	5.68	131.92	121.70
1	d	365	THR	CA-C-N	5.67	131.90	121.70
1	d	365	THR	C-N-CA	5.67	131.90	121.70
1	f	88	ILE	CA-C-N	5.66	131.88	121.70
1	f	88	ILE	C-N-CA	5.66	131.88	121.70
1	l	55	GLN	N-CA-C	-5.65	100.76	109.52
1	c	88	ILE	CA-C-N	5.64	131.86	121.70
1	c	88	ILE	C-N-CA	5.64	131.86	121.70
1	h	365	THR	CA-C-N	5.64	131.85	121.70
1	h	365	THR	C-N-CA	5.64	131.85	121.70
1	b	88	ILE	CA-C-N	5.64	131.85	121.70
1	b	88	ILE	C-N-CA	5.64	131.85	121.70
1	i	88	ILE	CA-C-N	5.64	131.85	121.70
1	i	88	ILE	C-N-CA	5.64	131.85	121.70
1	k	365	THR	CA-C-N	5.64	131.85	121.70
1	k	365	THR	C-N-CA	5.64	131.85	121.70
1	c	365	THR	CA-C-N	5.63	131.84	121.70
1	c	365	THR	C-N-CA	5.63	131.84	121.70
1	j	88	ILE	CA-C-N	5.63	131.83	121.70
1	j	88	ILE	C-N-CA	5.63	131.83	121.70
1	e	88	ILE	CA-C-N	5.62	131.82	121.70
1	e	88	ILE	C-N-CA	5.62	131.82	121.70
1	k	88	ILE	CA-C-N	5.62	131.81	121.70
1	k	88	ILE	C-N-CA	5.62	131.81	121.70
1	c	55	GLN	N-CA-C	-5.61	100.82	109.52
1	g	365	THR	CA-C-N	5.61	131.81	121.70
1	g	365	THR	C-N-CA	5.61	131.81	121.70
1	h	88	ILE	CA-C-N	5.61	131.80	121.70
1	h	88	ILE	C-N-CA	5.61	131.80	121.70
1	a	88	ILE	CA-C-N	5.61	131.80	121.70
1	a	88	ILE	C-N-CA	5.61	131.80	121.70
1	b	365	THR	CA-C-N	5.61	131.79	121.70
1	b	365	THR	C-N-CA	5.61	131.79	121.70
1	l	365	THR	CA-C-N	5.61	131.79	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	365	THR	C-N-CA	5.61	131.79	121.70
1	i	365	THR	CA-C-N	5.59	131.77	121.70
1	i	365	THR	C-N-CA	5.59	131.77	121.70
1	f	55	GLN	N-CA-C	-5.59	100.86	109.52
1	f	365	THR	CA-C-N	5.59	131.76	121.70
1	f	365	THR	C-N-CA	5.59	131.76	121.70
1	d	88	ILE	CA-C-N	5.59	131.76	121.70
1	d	88	ILE	C-N-CA	5.59	131.76	121.70
1	e	365	THR	CA-C-N	5.59	131.75	121.70
1	e	365	THR	C-N-CA	5.59	131.75	121.70
1	a	365	THR	CA-C-N	5.58	131.75	121.70
1	a	365	THR	C-N-CA	5.58	131.75	121.70
1	b	139	VAL	N-CA-C	-5.58	100.45	108.48
1	f	473	ALA	CA-C-N	-5.58	116.03	122.95
1	f	473	ALA	C-N-CA	-5.58	116.03	122.95
1	i	55	GLN	N-CA-C	-5.57	100.88	109.52
1	i	139	VAL	N-CA-C	-5.57	100.47	108.48
1	j	365	THR	CA-C-N	5.56	131.72	121.70
1	j	365	THR	C-N-CA	5.56	131.72	121.70
1	l	139	VAL	N-CA-C	-5.56	100.47	108.48
1	f	263	SER	CB-CA-C	-5.56	99.36	110.42
1	d	263	SER	CB-CA-C	-5.55	99.37	110.42
1	e	139	VAL	N-CA-C	-5.55	100.48	108.48
1	k	139	VAL	N-CA-C	-5.55	100.49	108.48
1	c	263	SER	CB-CA-C	-5.55	99.38	110.42
1	e	473	ALA	CA-C-N	-5.55	116.07	122.95
1	e	473	ALA	C-N-CA	-5.55	116.07	122.95
1	g	379	SER	N-CA-C	5.55	117.33	111.28
1	f	139	VAL	N-CA-C	-5.55	100.49	108.48
1	g	139	VAL	N-CA-C	-5.54	100.50	108.48
1	f	379	SER	N-CA-C	5.54	117.32	111.28
1	a	473	ALA	CA-C-N	-5.54	116.08	122.95
1	a	473	ALA	C-N-CA	-5.54	116.08	122.95
1	h	139	VAL	N-CA-C	-5.53	100.52	108.48
1	k	263	SER	CB-CA-C	-5.53	99.42	110.42
1	l	473	ALA	CA-C-N	-5.53	116.10	122.95
1	l	473	ALA	C-N-CA	-5.53	116.10	122.95
1	c	139	VAL	N-CA-C	-5.52	100.53	108.48
1	d	139	VAL	N-CA-C	-5.52	100.53	108.48
1	h	473	ALA	CA-C-N	-5.52	116.10	122.95
1	h	473	ALA	C-N-CA	-5.52	116.10	122.95
1	l	82	THR	N-CA-C	5.52	119.19	111.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b	263	SER	CB-CA-C	-5.52	99.44	110.42
1	d	473	ALA	CA-C-N	-5.52	116.11	122.95
1	d	473	ALA	C-N-CA	-5.52	116.11	122.95
1	e	82	THR	N-CA-C	5.52	119.19	111.74
1	h	263	SER	CB-CA-C	-5.52	99.44	110.42
1	j	139	VAL	N-CA-C	-5.52	100.53	108.48
1	j	263	SER	CB-CA-C	-5.52	99.44	110.42
1	b	473	ALA	CA-C-N	-5.51	116.11	122.95
1	b	473	ALA	C-N-CA	-5.51	116.11	122.95
1	a	263	SER	CB-CA-C	-5.51	99.45	110.42
1	i	473	ALA	CA-C-N	-5.51	116.11	122.95
1	i	473	ALA	C-N-CA	-5.51	116.11	122.95
1	e	263	SER	CB-CA-C	-5.51	99.45	110.42
1	a	139	VAL	N-CA-C	-5.51	100.55	108.48
1	i	263	SER	CB-CA-C	-5.51	99.46	110.42
1	e	379	SER	N-CA-C	5.50	117.28	111.28
1	j	473	ALA	CA-C-N	-5.50	116.13	122.95
1	j	473	ALA	C-N-CA	-5.50	116.13	122.95
1	l	263	SER	CB-CA-C	-5.50	99.47	110.42
1	c	473	ALA	CA-C-N	-5.50	116.13	122.95
1	c	473	ALA	C-N-CA	-5.50	116.13	122.95
1	i	379	SER	N-CA-C	5.50	117.27	111.28
1	b	82	THR	N-CA-C	5.50	119.16	111.74
1	k	473	ALA	CA-C-N	-5.50	116.13	122.95
1	k	473	ALA	C-N-CA	-5.50	116.13	122.95
1	h	379	SER	N-CA-C	5.49	117.27	111.28
1	c	82	THR	N-CA-C	5.48	119.14	111.74
1	g	263	SER	CB-CA-C	-5.48	99.51	110.42
1	g	473	ALA	CA-C-N	-5.48	116.15	122.95
1	g	473	ALA	C-N-CA	-5.48	116.15	122.95
1	d	82	THR	N-CA-C	5.48	119.14	111.74
1	c	379	SER	N-CA-C	5.48	117.25	111.28
1	f	82	THR	N-CA-C	5.48	119.13	111.74
1	h	82	THR	N-CA-C	5.47	119.13	111.74
1	j	379	SER	N-CA-C	5.47	117.24	111.28
1	j	82	THR	N-CA-C	5.46	119.11	111.74
1	c	291	MET	N-CA-C	5.43	117.28	111.36
1	k	82	THR	N-CA-C	5.43	119.07	111.74
1	e	291	MET	N-CA-C	5.42	117.27	111.36
1	a	82	THR	N-CA-C	5.42	119.05	111.74
1	b	379	SER	N-CA-C	5.42	117.26	111.36
1	d	291	MET	N-CA-C	5.42	117.27	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	291	MET	N-CA-C	5.42	117.26	111.36
1	i	82	THR	N-CA-C	5.41	119.05	111.74
1	b	291	MET	N-CA-C	5.40	117.25	111.36
1	a	291	MET	N-CA-C	5.39	117.23	111.36
1	g	291	MET	N-CA-C	5.38	117.23	111.36
1	f	291	MET	N-CA-C	5.38	117.22	111.36
1	g	82	THR	N-CA-C	5.38	119.00	111.74
1	j	291	MET	N-CA-C	5.37	117.21	111.36
1	k	370	THR	N-CA-C	-5.37	95.97	111.00
1	l	379	SER	N-CA-C	5.37	117.21	111.36
1	d	379	SER	N-CA-C	5.36	117.20	111.36
1	j	69	LEU	N-CA-C	-5.34	105.45	111.28
1	k	291	MET	N-CA-C	5.34	117.18	111.36
1	d	69	LEU	N-CA-C	-5.33	105.47	111.28
1	a	379	SER	N-CA-C	5.33	117.17	111.36
1	g	54	TYR	N-CA-C	5.33	117.92	109.50
1	a	69	LEU	N-CA-C	-5.32	105.48	111.28
1	l	69	LEU	N-CA-C	-5.32	105.48	111.28
1	j	54	TYR	N-CA-C	5.32	117.90	109.50
1	i	69	LEU	N-CA-C	-5.32	105.48	111.28
1	i	291	MET	N-CA-C	5.32	117.16	111.36
1	k	379	SER	N-CA-C	5.31	117.14	111.36
1	f	69	LEU	N-CA-C	-5.29	105.51	111.28
1	h	291	MET	N-CA-C	5.29	117.12	111.36
1	h	370	THR	N-CA-C	-5.28	96.22	111.00
1	g	69	LEU	N-CA-C	-5.26	105.54	111.28
1	c	241	ASP	N-CA-C	5.25	117.85	110.23
1	i	370	THR	N-CA-C	-5.25	96.29	111.00
1	k	69	LEU	N-CA-C	-5.25	105.56	111.28
1	j	241	ASP	N-CA-C	5.24	117.83	110.23
1	b	69	LEU	N-CA-C	-5.24	105.57	111.28
1	h	69	LEU	N-CA-C	-5.24	105.57	111.28
1	i	241	ASP	N-CA-C	5.24	117.82	110.23
1	a	241	ASP	N-CA-C	5.23	117.82	110.23
1	l	370	THR	N-CA-C	-5.23	96.34	111.00
1	c	370	THR	N-CA-C	-5.23	96.35	111.00
1	e	69	LEU	N-CA-C	-5.23	105.58	111.28
1	e	370	THR	N-CA-C	-5.23	96.36	111.00
1	k	241	ASP	N-CA-C	5.22	117.81	110.23
1	c	69	LEU	N-CA-C	-5.22	105.59	111.28
1	l	241	ASP	N-CA-C	5.22	117.80	110.23
1	e	455	MET	N-CA-C	5.22	118.77	112.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a	460	ASP	N-CA-C	5.21	117.04	111.36
1	h	241	ASP	N-CA-C	5.21	117.79	110.23
1	d	241	ASP	N-CA-C	5.20	117.77	110.23
1	c	460	ASP	N-CA-C	5.19	117.02	111.36
1	j	460	ASP	N-CA-C	5.19	117.02	111.36
1	e	460	ASP	N-CA-C	5.18	117.01	111.36
1	l	388	VAL	CB-CA-C	-5.18	105.07	112.22
1	k	388	VAL	CB-CA-C	-5.18	105.07	112.22
1	a	388	VAL	CB-CA-C	-5.17	105.08	112.22
1	f	241	ASP	N-CA-C	5.17	117.73	110.23
1	i	455	MET	N-CA-C	5.17	118.72	112.93
1	i	460	ASP	N-CA-C	5.17	117.00	111.36
1	f	370	THR	N-CA-C	-5.17	96.52	111.00
1	b	241	ASP	N-CA-C	5.17	117.72	110.23
1	e	241	ASP	N-CA-C	5.17	117.72	110.23
1	g	241	ASP	N-CA-C	5.17	117.72	110.23
1	h	461	ILE	N-CA-C	5.17	115.92	108.48
1	g	460	ASP	N-CA-C	5.16	116.99	111.36
1	j	455	MET	N-CA-C	5.16	118.71	112.93
1	k	460	ASP	N-CA-C	5.16	116.98	111.36
1	d	460	ASP	N-CA-C	5.16	116.98	111.36
1	j	388	VAL	CB-CA-C	-5.16	105.11	112.22
1	b	455	MET	N-CA-C	5.15	118.70	112.93
1	g	388	VAL	CB-CA-C	-5.15	105.11	112.22
1	j	461	ILE	N-CA-C	5.15	115.90	108.48
1	c	461	ILE	N-CA-C	5.15	115.89	108.48
1	f	455	MET	N-CA-C	5.15	118.70	112.93
1	c	455	MET	N-CA-C	5.14	118.69	112.93
1	h	455	MET	N-CA-C	5.14	118.69	112.93
1	b	461	ILE	N-CA-C	5.14	115.88	108.48
1	b	460	ASP	N-CA-C	5.13	116.96	111.36
1	b	388	VAL	CB-CA-C	-5.13	105.14	112.22
1	e	461	ILE	N-CA-C	5.13	115.87	108.48
1	f	388	VAL	CB-CA-C	-5.13	105.14	112.22
1	k	461	ILE	N-CA-C	5.13	115.87	108.48
1	f	460	ASP	N-CA-C	5.12	116.94	111.36
1	e	458	ASP	CA-C-N	5.12	125.95	120.47
1	e	458	ASP	C-N-CA	5.12	125.95	120.47
1	a	461	ILE	N-CA-C	5.12	115.85	108.48
1	f	461	ILE	N-CA-C	5.12	115.85	108.48
1	h	460	ASP	N-CA-C	5.12	116.94	111.36
1	a	455	MET	N-CA-C	5.12	118.66	112.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d	388	VAL	CB-CA-C	-5.11	105.16	112.22
1	h	388	VAL	CB-CA-C	-5.11	105.16	112.22
1	l	461	ILE	N-CA-C	5.11	115.84	108.48
1	g	461	ILE	N-CA-C	5.11	115.84	108.48
1	i	388	VAL	CB-CA-C	-5.11	105.17	112.22
1	d	461	ILE	N-CA-C	5.10	115.83	108.48
1	a	56	THR	CA-C-N	-5.10	113.47	119.84
1	a	56	THR	C-N-CA	-5.10	113.47	119.84
1	d	176	VAL	N-CA-C	5.10	115.19	107.80
1	l	460	ASP	N-CA-C	5.10	116.92	111.36
1	k	455	MET	N-CA-C	5.09	118.64	112.93
1	e	388	VAL	CB-CA-C	-5.09	105.19	112.22
1	c	388	VAL	CB-CA-C	-5.09	105.20	112.22
1	d	455	MET	N-CA-C	5.09	118.63	112.93
1	e	427	SER	CB-CA-C	-5.08	110.69	116.54
1	j	370	THR	N-CA-C	-5.08	96.77	111.00
1	i	461	ILE	N-CA-C	5.08	115.80	108.48
1	k	427	SER	CB-CA-C	-5.08	110.70	116.54
1	i	427	SER	CB-CA-C	-5.07	110.71	116.54
1	j	176	VAL	N-CA-C	5.07	115.15	107.80
1	l	176	VAL	N-CA-C	5.06	115.14	107.80
1	g	455	MET	N-CA-C	5.05	118.59	112.93
1	a	458	ASP	CA-C-N	5.05	125.88	120.47
1	a	458	ASP	C-N-CA	5.05	125.88	120.47
1	c	176	VAL	N-CA-C	5.05	115.12	107.80
1	b	458	ASP	CA-C-N	5.04	125.87	120.47
1	b	458	ASP	C-N-CA	5.04	125.87	120.47
1	h	176	VAL	N-CA-C	5.04	115.11	107.80
1	k	176	VAL	N-CA-C	5.04	115.11	107.80
1	g	176	VAL	N-CA-C	5.04	115.10	107.80
1	k	458	ASP	CA-C-N	5.04	125.86	120.47
1	k	458	ASP	C-N-CA	5.04	125.86	120.47
1	i	458	ASP	CA-C-N	5.03	125.85	120.47
1	i	458	ASP	C-N-CA	5.03	125.85	120.47
1	l	455	MET	N-CA-C	5.03	118.57	112.93
1	b	427	SER	CB-CA-C	-5.03	110.76	116.54
1	f	427	SER	CB-CA-C	-5.03	110.76	116.54
1	a	427	SER	CB-CA-C	-5.03	110.76	116.54
1	b	176	VAL	N-CA-C	5.02	115.08	107.80
1	d	427	SER	CB-CA-C	-5.02	110.77	116.54
1	i	176	VAL	N-CA-C	5.02	115.08	107.80
1	l	427	SER	CB-CA-C	-5.02	110.77	116.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f	176	VAL	N-CA-C	5.01	115.06	107.80
1	c	427	SER	CB-CA-C	-5.01	110.78	116.54
1	a	176	VAL	N-CA-C	5.01	115.06	107.80
1	c	458	ASP	CA-C-N	5.01	125.83	120.47
1	c	458	ASP	C-N-CA	5.01	125.83	120.47
1	d	458	ASP	CA-C-N	5.01	125.83	120.47
1	d	458	ASP	C-N-CA	5.01	125.83	120.47
1	f	458	ASP	CA-C-N	5.01	125.83	120.47
1	f	458	ASP	C-N-CA	5.01	125.83	120.47
1	j	427	SER	CB-CA-C	-5.00	110.78	116.54

There are no chirality outliers.

All (207) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	a	138	VAL	Mainchain
1	a	14	LYS	Peptide
1	a	140	ALA	Peptide
1	a	141	GLY	Peptide
1	a	159	LYS	Peptide
1	a	169	GLN	Peptide
1	a	171	ASP	Peptide
1	a	249	CYS	Peptide
1	a	250	PRO	Peptide
1	a	41	SER	Peptide
1	a	414	ILE	Peptide
1	a	421	ALA	Peptide
1	a	425	THR	Peptide
1	a	435	ARG	Peptide
1	a	86	LEU	Mainchain
1	a	88	ILE	Peptide
1	a	98	SER	Peptide
1	b	138	VAL	Mainchain
1	b	14	LYS	Peptide
1	b	140	ALA	Peptide
1	b	141	GLY	Peptide
1	b	159	LYS	Peptide
1	b	169	GLN	Peptide
1	b	171	ASP	Peptide
1	b	249	CYS	Peptide
1	b	250	PRO	Peptide
1	b	367	GLU	Mainchain

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Mol	Chain	Res	Type	Group
1	b	41	SER	Peptide
1	b	414	ILE	Peptide
1	b	421	ALA	Peptide
1	b	425	THR	Peptide
1	b	435	ARG	Peptide
1	b	86	LEU	Mainchain
1	b	88	ILE	Peptide
1	b	98	SER	Peptide
1	c	138	VAL	Mainchain
1	c	14	LYS	Peptide
1	c	140	ALA	Peptide
1	c	141	GLY	Peptide
1	c	159	LYS	Peptide
1	c	169	GLN	Peptide
1	c	171	ASP	Peptide
1	c	249	CYS	Peptide
1	c	250	PRO	Peptide
1	c	41	SER	Peptide
1	c	414	ILE	Peptide
1	c	421	ALA	Peptide
1	c	425	THR	Peptide
1	c	435	ARG	Peptide
1	c	86	LEU	Mainchain
1	c	88	ILE	Peptide
1	c	98	SER	Peptide
1	d	138	VAL	Mainchain
1	d	14	LYS	Peptide
1	d	140	ALA	Peptide
1	d	141	GLY	Peptide
1	d	159	LYS	Peptide
1	d	169	GLN	Peptide
1	d	171	ASP	Peptide
1	d	249	CYS	Peptide
1	d	250	PRO	Peptide
1	d	41	SER	Peptide
1	d	414	ILE	Peptide
1	d	421	ALA	Peptide
1	d	425	THR	Peptide
1	d	435	ARG	Peptide
1	d	86	LEU	Mainchain
1	d	88	ILE	Peptide
1	d	98	SER	Peptide

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Mol	Chain	Res	Type	Group
1	e	138	VAL	Mainchain
1	e	14	LYS	Peptide
1	e	140	ALA	Peptide
1	e	141	GLY	Peptide
1	e	159	LYS	Peptide
1	e	169	GLN	Peptide
1	e	171	ASP	Peptide
1	e	249	CYS	Peptide
1	e	250	PRO	Peptide
1	e	41	SER	Peptide
1	e	414	ILE	Peptide
1	e	421	ALA	Peptide
1	e	425	THR	Peptide
1	e	435	ARG	Peptide
1	e	86	LEU	Mainchain
1	e	88	ILE	Peptide
1	e	98	SER	Peptide
1	f	138	VAL	Mainchain
1	f	14	LYS	Peptide
1	f	140	ALA	Peptide
1	f	141	GLY	Peptide
1	f	159	LYS	Peptide
1	f	169	GLN	Peptide
1	f	171	ASP	Peptide
1	f	249	CYS	Peptide
1	f	250	PRO	Peptide
1	f	41	SER	Peptide
1	f	414	ILE	Peptide
1	f	421	ALA	Peptide
1	f	425	THR	Peptide
1	f	435	ARG	Peptide
1	f	86	LEU	Mainchain
1	f	88	ILE	Peptide
1	f	98	SER	Peptide
1	g	138	VAL	Mainchain
1	g	14	LYS	Peptide
1	g	140	ALA	Peptide
1	g	141	GLY	Peptide
1	g	159	LYS	Peptide
1	g	169	GLN	Peptide
1	g	171	ASP	Peptide
1	g	249	CYS	Peptide

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Mol	Chain	Res	Type	Group
1	g	250	PRO	Peptide
1	g	41	SER	Peptide
1	g	414	ILE	Peptide
1	g	421	ALA	Peptide
1	g	425	THR	Peptide
1	g	435	ARG	Peptide
1	g	86	LEU	Mainchain
1	g	88	ILE	Peptide
1	g	98	SER	Peptide
1	h	138	VAL	Mainchain
1	h	14	LYS	Peptide
1	h	140	ALA	Peptide
1	h	141	GLY	Peptide
1	h	159	LYS	Peptide
1	h	169	GLN	Peptide
1	h	171	ASP	Peptide
1	h	249	CYS	Peptide
1	h	250	PRO	Peptide
1	h	41	SER	Peptide
1	h	414	ILE	Peptide
1	h	421	ALA	Peptide
1	h	425	THR	Peptide
1	h	435	ARG	Peptide
1	h	86	LEU	Mainchain
1	h	88	ILE	Peptide
1	h	98	SER	Peptide
1	i	138	VAL	Mainchain
1	i	14	LYS	Peptide
1	i	140	ALA	Peptide
1	i	141	GLY	Peptide
1	i	159	LYS	Peptide
1	i	169	GLN	Peptide
1	i	171	ASP	Peptide
1	i	249	CYS	Peptide
1	i	250	PRO	Peptide
1	i	41	SER	Peptide
1	i	414	ILE	Peptide
1	i	421	ALA	Peptide
1	i	425	THR	Peptide
1	i	435	ARG	Peptide
1	i	86	LEU	Mainchain
1	i	88	ILE	Peptide

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Mol	Chain	Res	Type	Group
1	i	98	SER	Peptide
1	j	138	VAL	Mainchain
1	j	14	LYS	Peptide
1	j	140	ALA	Peptide
1	j	141	GLY	Peptide
1	j	159	LYS	Peptide
1	j	169	GLN	Peptide
1	j	171	ASP	Peptide
1	j	249	CYS	Peptide
1	j	250	PRO	Peptide
1	j	41	SER	Peptide
1	j	414	ILE	Peptide
1	j	421	ALA	Peptide
1	j	425	THR	Peptide
1	j	435	ARG	Peptide
1	j	86	LEU	Mainchain
1	j	88	ILE	Peptide
1	j	98	SER	Peptide
1	k	138	VAL	Mainchain
1	k	14	LYS	Peptide
1	k	140	ALA	Peptide
1	k	141	GLY	Peptide
1	k	15	SER	Mainchain
1	k	159	LYS	Peptide
1	k	169	GLN	Peptide
1	k	171	ASP	Peptide
1	k	249	CYS	Peptide
1	k	250	PRO	Peptide
1	k	41	SER	Peptide
1	k	414	ILE	Peptide
1	k	421	ALA	Peptide
1	k	425	THR	Peptide
1	k	435	ARG	Peptide
1	k	86	LEU	Mainchain
1	k	88	ILE	Peptide
1	k	98	SER	Peptide
1	l	138	VAL	Mainchain
1	l	14	LYS	Peptide
1	l	140	ALA	Peptide
1	l	141	GLY	Peptide
1	l	159	LYS	Peptide
1	l	169	GLN	Peptide

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Mol	Chain	Res	Type	Group
1	l	171	ASP	Peptide
1	l	249	CYS	Peptide
1	l	250	PRO	Peptide
1	l	369	VAL	Peptide
1	l	41	SER	Peptide
1	l	414	ILE	Peptide
1	l	421	ALA	Peptide
1	l	425	THR	Peptide
1	l	435	ARG	Peptide
1	l	86	LEU	Mainchain
1	l	88	ILE	Peptide
1	l	98	SER	Peptide

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	3449	0	3451	1303	0
1	b	3449	0	3452	1288	0
1	c	3449	0	3452	1288	0
1	d	3449	0	3452	1268	0
1	e	3449	0	3452	1283	0
1	f	3449	0	3452	1296	0
1	g	3449	0	3452	1289	0
1	h	3449	0	3452	1295	0
1	i	3449	0	3452	1294	0
1	j	3449	0	3452	1293	0
1	k	3449	0	3452	1293	0
1	l	3449	0	3452	1296	0
All	All	41388	0	41423	12563	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 152.

All (12563) 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:g:86:LEU:CD2	1:g:424:PRO:HB3	1.26	1.66
1:i:86:LEU:CD2	1:i:424:PRO:HB3	1.26	1.66
1:e:86:LEU:CD2	1:e:424:PRO:HB3	1.26	1.64
1:g:481:ILE:CD1	1:h:466:ILE:CD1	1.74	1.64
1:a:357:MET:CE	1:a:381:LEU:HD11	1.17	1.64
1:h:481:ILE:CD1	1:i:466:ILE:CD1	1.74	1.64
1:l:126:TYR:CE1	1:l:158:MET:HE3	1.13	1.64
1:i:126:TYR:CE1	1:i:158:MET:HE3	1.13	1.63
1:a:357:MET:SD	1:a:381:LEU:HG	1.36	1.62
1:i:481:ILE:CD1	1:j:466:ILE:CD1	1.74	1.61
1:k:126:TYR:CE1	1:k:158:MET:HE3	1.13	1.61
1:b:481:ILE:CD1	1:c:466:ILE:CD1	1.75	1.61
1:d:481:ILE:CD1	1:e:466:ILE:CD1	1.76	1.61
1:j:300:VAL:CG1	1:j:327:ILE:HG21	1.25	1.61
1:k:300:VAL:CG1	1:k:327:ILE:HG21	1.25	1.61
1:a:126:TYR:CE1	1:a:158:MET:HE3	1.13	1.61
1:j:126:TYR:CE1	1:j:158:MET:HE3	1.13	1.61
1:k:86:LEU:CD2	1:k:424:PRO:HB3	1.26	1.61
1:l:300:VAL:CG1	1:l:327:ILE:HG21	1.25	1.61
1:c:126:TYR:CE1	1:c:158:MET:HE3	1.13	1.61
1:d:126:TYR:CE1	1:d:158:MET:HE3	1.13	1.60
1:h:126:TYR:CE1	1:h:158:MET:HE3	1.13	1.60
1:i:300:VAL:CG1	1:i:327:ILE:HG21	1.25	1.60
1:a:300:VAL:CG1	1:a:327:ILE:HG21	1.25	1.60
1:a:319:PHE:CE2	1:b:311:LEU:CD1	1.84	1.59
1:b:126:TYR:CE1	1:b:158:MET:HE3	1.13	1.59
1:b:300:VAL:CG1	1:b:327:ILE:HG21	1.25	1.59
1:d:319:PHE:CE2	1:e:311:LEU:CD1	1.81	1.59
1:f:319:PHE:CE2	1:g:311:LEU:CD1	1.81	1.59
1:l:86:LEU:CD2	1:l:424:PRO:HB3	1.26	1.59
1:e:126:TYR:CE1	1:e:158:MET:HE3	1.13	1.59
1:h:300:VAL:CG1	1:h:327:ILE:HG21	1.25	1.59
1:h:319:PHE:CE2	1:i:311:LEU:CD1	1.84	1.59
1:k:481:ILE:CD1	1:l:466:ILE:HD11	1.11	1.59
1:b:86:LEU:CD2	1:b:424:PRO:HB3	1.26	1.59
1:c:86:LEU:CD2	1:c:424:PRO:HB3	1.26	1.58
1:c:300:VAL:CG1	1:c:327:ILE:HG21	1.26	1.58
1:i:319:PHE:CE2	1:j:311:LEU:CD1	1.82	1.58
1:a:311:LEU:CD1	1:l:319:PHE:CE2	1.83	1.58
1:a:466:ILE:CD1	1:l:481:ILE:CD1	1.74	1.58
1:a:481:ILE:CD1	1:b:466:ILE:HD11	1.11	1.58
1:c:319:PHE:CE2	1:d:311:LEU:CD1	1.83	1.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:300:VAL:CG1	1:g:327:ILE:HG21	1.25	1.58
1:j:86:LEU:CD2	1:j:424:PRO:HB3	1.26	1.58
1:e:319:PHE:CE2	1:f:311:LEU:CD1	1.85	1.58
1:f:126:TYR:CE1	1:f:158:MET:HE3	1.13	1.58
1:g:319:PHE:CE2	1:h:311:LEU:CD1	1.85	1.57
1:j:319:PHE:CE2	1:k:311:LEU:CD1	1.82	1.57
1:g:126:TYR:CE1	1:g:158:MET:HE3	1.13	1.57
1:i:481:ILE:CD1	1:j:466:ILE:HD11	1.10	1.57
1:d:86:LEU:CD2	1:d:424:PRO:HB3	1.26	1.57
1:h:86:LEU:CD2	1:h:424:PRO:HB3	1.26	1.57
1:f:300:VAL:CG1	1:f:327:ILE:HG21	1.25	1.57
1:a:481:ILE:CD1	1:b:466:ILE:CD1	1.75	1.56
1:e:481:ILE:CD1	1:f:466:ILE:CD1	1.74	1.56
1:f:86:LEU:CD2	1:f:424:PRO:HB3	1.26	1.56
1:b:319:PHE:CE2	1:c:311:LEU:CD1	1.83	1.56
1:d:300:VAL:CG1	1:d:327:ILE:HG21	1.25	1.56
1:g:481:ILE:CD1	1:h:466:ILE:HD11	1.11	1.56
1:k:481:ILE:CD1	1:l:466:ILE:CD1	1.74	1.56
1:e:300:VAL:CG1	1:e:327:ILE:HG21	1.25	1.56
1:h:481:ILE:CD1	1:i:466:ILE:HD11	1.11	1.55
1:j:481:ILE:CD1	1:k:466:ILE:CD1	1.75	1.55
1:e:481:ILE:CD1	1:f:466:ILE:HD11	1.12	1.55
1:b:481:ILE:CD1	1:c:466:ILE:HD11	1.11	1.55
1:j:300:VAL:CA	1:j:327:ILE:HG22	1.36	1.55
1:k:319:PHE:CE2	1:l:311:LEU:CD1	1.84	1.55
1:f:481:ILE:CD1	1:g:466:ILE:CD1	1.75	1.54
1:a:466:ILE:HD11	1:l:481:ILE:CD1	1.10	1.54
1:g:300:VAL:CA	1:g:327:ILE:HG22	1.36	1.54
1:h:248:ALA:HB1	1:h:406:LYS:CG	1.38	1.54
1:h:300:VAL:CA	1:h:327:ILE:HG22	1.36	1.54
1:d:248:ALA:HB1	1:d:406:LYS:CG	1.38	1.54
1:e:319:PHE:CE2	1:f:311:LEU:HD13	1.41	1.54
1:f:248:ALA:HB1	1:f:406:LYS:CG	1.38	1.54
1:b:248:ALA:HB1	1:b:406:LYS:CG	1.38	1.53
1:d:481:ILE:CD1	1:e:466:ILE:HD11	1.10	1.53
1:j:481:ILE:CD1	1:k:466:ILE:HD11	1.10	1.53
1:g:248:ALA:CB	1:g:406:LYS:HG2	1.39	1.53
1:a:86:LEU:CD2	1:a:424:PRO:HB3	1.26	1.53
1:h:248:ALA:CB	1:h:406:LYS:HG2	1.39	1.53
1:b:319:PHE:CE2	1:c:311:LEU:HD13	1.39	1.53
1:f:248:ALA:CB	1:f:406:LYS:HG2	1.39	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:481:ILE:CD1	1:g:466:ILE:HD11	1.10	1.53
1:k:248:ALA:HB1	1:k:406:LYS:CG	1.38	1.52
1:e:300:VAL:CA	1:e:327:ILE:HG22	1.36	1.52
1:i:248:ALA:CB	1:i:406:LYS:HG2	1.39	1.52
1:a:248:ALA:HB1	1:a:406:LYS:CG	1.38	1.52
1:i:300:VAL:CA	1:i:327:ILE:HG22	1.36	1.52
1:j:319:PHE:CE2	1:k:311:LEU:HD13	1.40	1.52
1:e:248:ALA:CB	1:e:406:LYS:HG2	1.39	1.51
1:c:300:VAL:CA	1:c:327:ILE:HG22	1.36	1.51
1:j:248:ALA:HB1	1:j:406:LYS:CG	1.38	1.51
1:j:248:ALA:CB	1:j:406:LYS:HG2	1.39	1.51
1:a:300:VAL:CA	1:a:327:ILE:HG22	1.36	1.51
1:b:15:SER:CB	1:b:216:HIS:NE2	1.73	1.51
1:k:319:PHE:CE2	1:l:311:LEU:HD13	1.40	1.51
1:l:300:VAL:CA	1:l:327:ILE:HG22	1.36	1.51
1:d:319:PHE:CE2	1:e:311:LEU:HD13	1.40	1.51
1:f:319:PHE:CE2	1:g:311:LEU:HD13	1.40	1.51
1:g:15:SER:CB	1:g:216:HIS:NE2	1.73	1.51
1:i:248:ALA:HB1	1:i:406:LYS:CG	1.38	1.51
1:c:359:ASN:ND2	1:d:380:GLU:HB3	1.23	1.50
1:f:300:VAL:CA	1:f:327:ILE:HG22	1.36	1.50
1:i:319:PHE:CE2	1:j:311:LEU:HD13	1.41	1.50
1:k:248:ALA:CB	1:k:406:LYS:HG2	1.39	1.50
1:a:357:MET:HE1	1:a:381:LEU:CD1	1.03	1.50
1:c:248:ALA:HB1	1:c:406:LYS:CG	1.38	1.50
1:i:15:SER:CB	1:i:216:HIS:NE2	1.73	1.50
1:a:248:ALA:CB	1:a:406:LYS:HG2	1.39	1.50
1:b:248:ALA:CB	1:b:406:LYS:HG2	1.39	1.50
1:c:319:PHE:CE2	1:d:311:LEU:HD13	1.41	1.50
1:l:248:ALA:CB	1:l:406:LYS:HG2	1.39	1.50
1:e:248:ALA:HB1	1:e:406:LYS:CG	1.38	1.50
1:h:446:VAL:CG2	1:i:452:LEU:HD21	1.41	1.50
1:d:248:ALA:CB	1:d:406:LYS:HG2	1.39	1.50
1:d:300:VAL:CA	1:d:327:ILE:HG22	1.36	1.50
1:b:446:VAL:CG2	1:c:452:LEU:HD21	1.42	1.49
1:g:248:ALA:HB1	1:g:406:LYS:CG	1.38	1.49
1:g:446:VAL:CG2	1:h:452:LEU:HD21	1.41	1.49
1:k:300:VAL:CA	1:k:327:ILE:HG22	1.36	1.49
1:f:300:VAL:HG12	1:f:327:ILE:CG2	1.41	1.49
1:g:319:PHE:CE2	1:h:311:LEU:HD13	1.42	1.49
1:e:446:VAL:CG2	1:f:452:LEU:HD21	1.40	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:248:ALA:HB1	1:l:406:LYS:CG	1.38	1.49
1:a:15:SER:CB	1:a:216:HIS:NE2	1.73	1.49
1:a:311:LEU:HD13	1:l:319:PHE:CE2	1.41	1.49
1:c:248:ALA:CB	1:c:406:LYS:HG2	1.39	1.49
1:a:300:VAL:HG12	1:a:327:ILE:CG2	1.41	1.48
1:a:452:LEU:HD21	1:l:446:VAL:CG2	1.43	1.48
1:h:300:VAL:HG12	1:h:327:ILE:CG2	1.41	1.48
1:e:15:SER:CB	1:e:216:HIS:NE2	1.73	1.48
1:f:359:ASN:ND2	1:g:380:GLU:HB3	1.26	1.48
1:h:15:SER:CB	1:h:216:HIS:NE2	1.73	1.48
1:h:319:PHE:CE2	1:i:311:LEU:HD13	1.40	1.48
1:c:15:SER:CB	1:c:216:HIS:NE2	1.73	1.48
1:b:300:VAL:HG12	1:b:327:ILE:CG2	1.41	1.48
1:d:300:VAL:HG12	1:d:327:ILE:CG2	1.41	1.48
1:b:300:VAL:CA	1:b:327:ILE:HG22	1.36	1.47
1:k:15:SER:CB	1:k:216:HIS:NE2	1.73	1.47
1:c:446:VAL:CG2	1:d:452:LEU:HD21	1.43	1.47
1:j:300:VAL:HG12	1:j:327:ILE:CG2	1.41	1.47
1:d:15:SER:CB	1:d:216:HIS:NE2	1.73	1.47
1:j:15:SER:CB	1:j:216:HIS:NE2	1.73	1.47
1:f:15:SER:CB	1:f:216:HIS:NE2	1.73	1.47
1:j:446:VAL:CG2	1:k:452:LEU:HD21	1.44	1.47
1:l:277:ARG:NH1	1:l:351:ARG:NH2	1.63	1.47
1:a:446:VAL:CG2	1:b:452:LEU:HD21	1.44	1.47
1:c:86:LEU:HD23	1:c:424:PRO:CB	1.45	1.47
1:e:300:VAL:HG12	1:e:327:ILE:CG2	1.41	1.47
1:k:300:VAL:HG12	1:k:327:ILE:CG2	1.41	1.47
1:l:15:SER:CB	1:l:216:HIS:NE2	1.73	1.47
1:a:86:LEU:HD23	1:a:424:PRO:CB	1.45	1.46
1:e:86:LEU:HD23	1:e:424:PRO:CB	1.45	1.46
1:l:300:VAL:HG12	1:l:327:ILE:CG2	1.41	1.46
1:a:277:ARG:NH1	1:a:351:ARG:NH2	1.64	1.46
1:g:300:VAL:HG12	1:g:327:ILE:CG2	1.41	1.46
1:k:277:ARG:NH1	1:k:351:ARG:NH2	1.63	1.46
1:c:277:ARG:NH1	1:c:351:ARG:NH2	1.64	1.46
1:g:86:LEU:HD23	1:g:424:PRO:CB	1.45	1.46
1:h:86:LEU:HD23	1:h:424:PRO:CB	1.45	1.46
1:i:86:LEU:HD23	1:i:424:PRO:CB	1.45	1.46
1:k:86:LEU:HD23	1:k:424:PRO:CB	1.45	1.46
1:i:300:VAL:HG12	1:i:327:ILE:CG2	1.41	1.46
1:k:446:VAL:CG2	1:l:452:LEU:HD21	1.41	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:147:LEU:CD1	1:b:407:GLN:HE22	1.29	1.45
1:a:147:LEU:CD1	1:a:407:GLN:HE22	1.29	1.45
1:b:277:ARG:NH1	1:b:351:ARG:NH2	1.64	1.45
1:c:257:VAL:HG23	1:c:267:SER:CB	1.47	1.45
1:c:300:VAL:HG12	1:c:327:ILE:CG2	1.41	1.45
1:d:277:ARG:NH1	1:d:351:ARG:NH2	1.65	1.45
1:d:398:LEU:CD1	1:d:402:ARG:HH21	1.28	1.45
1:g:257:VAL:HG23	1:g:267:SER:CB	1.47	1.45
1:h:257:VAL:HG23	1:h:267:SER:CB	1.47	1.45
1:l:147:LEU:CD1	1:l:407:GLN:HE22	1.29	1.45
1:a:319:PHE:CE2	1:b:311:LEU:HD13	1.43	1.45
1:a:481:ILE:HD13	1:b:466:ILE:CD1	1.38	1.45
1:b:257:VAL:HG23	1:b:267:SER:CB	1.47	1.45
1:c:147:LEU:CD1	1:c:407:GLN:HE22	1.29	1.45
1:c:398:LEU:CD1	1:c:402:ARG:HH21	1.28	1.45
1:e:277:ARG:NH1	1:e:351:ARG:NH2	1.64	1.45
1:j:86:LEU:HD23	1:j:424:PRO:CB	1.45	1.45
1:k:147:LEU:CD1	1:k:407:GLN:HE22	1.29	1.45
1:d:86:LEU:HD23	1:d:424:PRO:CB	1.45	1.45
1:f:446:VAL:CG2	1:g:452:LEU:HD21	1.47	1.45
1:d:147:LEU:CD1	1:d:407:GLN:HE22	1.29	1.44
1:d:257:VAL:HG23	1:d:267:SER:CB	1.46	1.44
1:d:446:VAL:CG2	1:e:452:LEU:HD21	1.47	1.44
1:e:398:LEU:CD1	1:e:402:ARG:HH21	1.28	1.44
1:i:147:LEU:CD1	1:i:407:GLN:HE22	1.29	1.44
1:j:147:LEU:CD1	1:j:407:GLN:HE22	1.29	1.44
1:i:446:VAL:CG2	1:j:452:LEU:HD21	1.45	1.44
1:e:147:LEU:CD1	1:e:407:GLN:HE22	1.29	1.44
1:f:86:LEU:HD23	1:f:424:PRO:CB	1.45	1.44
1:h:147:LEU:CD1	1:h:407:GLN:HE22	1.29	1.44
1:i:290:SER:CA	1:j:284:GLU:HG3	1.48	1.44
1:b:86:LEU:HD23	1:b:424:PRO:CB	1.45	1.44
1:b:290:SER:CA	1:c:284:GLU:HG3	1.47	1.44
1:b:398:LEU:CD1	1:b:402:ARG:HH21	1.28	1.44
1:f:257:VAL:HG23	1:f:267:SER:CB	1.47	1.44
1:g:147:LEU:CD1	1:g:407:GLN:HE22	1.29	1.44
1:h:398:LEU:CD1	1:h:402:ARG:HH21	1.28	1.44
1:i:257:VAL:HG23	1:i:267:SER:CB	1.47	1.44
1:a:257:VAL:HG23	1:a:267:SER:CB	1.46	1.44
1:f:398:LEU:CD1	1:f:402:ARG:HH21	1.28	1.44
1:g:398:LEU:CD1	1:g:402:ARG:HH21	1.28	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:277:ARG:NH1	1:j:351:ARG:NH2	1.64	1.44
1:f:147:LEU:CD1	1:f:407:GLN:HE22	1.29	1.43
1:i:359:ASN:ND2	1:j:380:GLU:HB3	1.24	1.43
1:i:398:LEU:CD1	1:i:402:ARG:HH21	1.28	1.43
1:k:290:SER:CA	1:l:284:GLU:HG3	1.48	1.43
1:a:284:GLU:HG3	1:l:290:SER:CA	1.48	1.43
1:e:257:VAL:CG2	1:e:267:SER:HB3	1.49	1.43
1:g:290:SER:CA	1:h:284:GLU:HG3	1.48	1.43
1:h:257:VAL:CG2	1:h:267:SER:HB3	1.49	1.43
1:i:257:VAL:CG2	1:i:267:SER:HB3	1.49	1.43
1:j:257:VAL:HG23	1:j:267:SER:CB	1.47	1.43
1:b:257:VAL:CG2	1:b:267:SER:HB3	1.49	1.42
1:h:290:SER:CA	1:i:284:GLU:HG3	1.47	1.42
1:a:398:LEU:CD1	1:a:402:ARG:HH21	1.28	1.42
1:c:20:LEU:HB3	1:c:167:VAL:CG1	1.49	1.42
1:f:277:ARG:NH1	1:f:351:ARG:NH2	1.64	1.42
1:k:257:VAL:CG2	1:k:267:SER:HB3	1.49	1.42
1:l:86:LEU:HD23	1:l:424:PRO:CB	1.45	1.42
1:b:20:LEU:HB3	1:b:167:VAL:CG1	1.49	1.42
1:e:290:SER:CA	1:f:284:GLU:HG3	1.47	1.42
1:f:257:VAL:CG2	1:f:267:SER:HB3	1.49	1.42
1:j:398:LEU:CD1	1:j:402:ARG:HH21	1.28	1.42
1:a:20:LEU:HB3	1:a:167:VAL:CG1	1.50	1.42
1:a:290:SER:CA	1:b:284:GLU:HG3	1.48	1.42
1:f:290:SER:CA	1:g:284:GLU:HG3	1.48	1.42
1:g:277:ARG:NH1	1:g:351:ARG:NH2	1.65	1.42
1:l:257:VAL:HG23	1:l:267:SER:CB	1.47	1.42
1:d:20:LEU:HB3	1:d:167:VAL:CG1	1.50	1.42
1:e:257:VAL:HG23	1:e:267:SER:CB	1.47	1.42
1:c:257:VAL:CG2	1:c:267:SER:HB3	1.49	1.41
1:d:257:VAL:CG2	1:d:267:SER:HB3	1.49	1.41
1:h:277:ARG:NH1	1:h:351:ARG:NH2	1.64	1.41
1:j:290:SER:CA	1:k:284:GLU:HG3	1.48	1.41
1:k:257:VAL:HG23	1:k:267:SER:CB	1.47	1.41
1:e:20:LEU:HB3	1:e:167:VAL:CG1	1.49	1.41
1:k:398:LEU:CD1	1:k:402:ARG:HH21	1.28	1.41
1:l:20:LEU:HB3	1:l:167:VAL:CG1	1.49	1.41
1:l:257:VAL:CG2	1:l:267:SER:HB3	1.49	1.41
1:l:398:LEU:CD1	1:l:402:ARG:HH21	1.28	1.41
1:e:398:LEU:HD12	1:e:402:ARG:NH2	1.10	1.41
1:f:398:LEU:HD12	1:f:402:ARG:NH2	1.10	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:481:ILE:HD13	1:g:466:ILE:CD1	1.40	1.41
1:i:277:ARG:NH1	1:i:351:ARG:NH2	1.64	1.41
1:l:398:LEU:HD12	1:l:402:ARG:NH2	1.10	1.41
1:a:257:VAL:CG2	1:a:267:SER:HB3	1.48	1.40
1:k:20:LEU:HB3	1:k:167:VAL:CG1	1.49	1.40
1:c:290:SER:CA	1:d:284:GLU:HG3	1.47	1.40
1:f:20:LEU:HB3	1:f:167:VAL:CG1	1.49	1.40
1:g:257:VAL:CG2	1:g:267:SER:HB3	1.49	1.40
1:a:398:LEU:HD12	1:a:402:ARG:NH2	1.10	1.40
1:d:290:SER:CA	1:e:284:GLU:HG3	1.49	1.40
1:d:398:LEU:HD12	1:d:402:ARG:NH2	1.10	1.40
1:g:398:LEU:HD12	1:g:402:ARG:NH2	1.10	1.40
1:k:398:LEU:HD12	1:k:402:ARG:NH2	1.10	1.40
1:j:257:VAL:CG2	1:j:267:SER:HB3	1.49	1.39
1:k:481:ILE:HD13	1:l:466:ILE:CD1	1.39	1.39
1:g:20:LEU:HB3	1:g:167:VAL:CG1	1.50	1.39
1:j:20:LEU:HB3	1:j:167:VAL:CG1	1.50	1.39
1:h:20:LEU:HB3	1:h:167:VAL:CG1	1.49	1.39
1:b:398:LEU:HD12	1:b:402:ARG:NH2	1.10	1.39
1:f:293:SER:O	1:g:288:LYS:HB2	1.23	1.38
1:i:481:ILE:HD13	1:j:466:ILE:CD1	1.38	1.38
1:c:398:LEU:HD12	1:c:402:ARG:NH2	1.10	1.38
1:i:20:LEU:HB3	1:i:167:VAL:CG1	1.50	1.38
1:j:17:TYR:HB2	1:j:180:VAL:CG1	1.53	1.38
1:k:17:TYR:HB2	1:k:180:VAL:CG1	1.53	1.38
1:d:17:TYR:HB2	1:d:180:VAL:CG1	1.53	1.37
1:e:17:TYR:HB2	1:e:180:VAL:CG1	1.53	1.37
1:i:17:TYR:HB2	1:i:180:VAL:CG1	1.53	1.37
1:j:398:LEU:HD12	1:j:402:ARG:NH2	1.10	1.37
1:d:481:ILE:HD13	1:e:466:ILE:CD1	1.40	1.37
1:g:126:TYR:CE1	1:g:158:MET:CE	2.08	1.37
1:h:126:TYR:CE1	1:h:158:MET:CE	2.08	1.37
1:l:17:TYR:HB2	1:l:180:VAL:CG1	1.53	1.37
1:a:20:LEU:CB	1:a:167:VAL:HG11	1.55	1.37
1:d:20:LEU:CB	1:d:167:VAL:HG11	1.55	1.37
1:h:398:LEU:HD12	1:h:402:ARG:NH2	1.10	1.37
1:c:17:TYR:HB2	1:c:180:VAL:CG1	1.53	1.36
1:f:17:TYR:HB2	1:f:180:VAL:CG1	1.53	1.36
1:f:126:TYR:CE1	1:f:158:MET:CE	2.08	1.36
1:i:126:TYR:CE1	1:i:158:MET:CE	2.08	1.36
1:h:17:TYR:HB2	1:h:180:VAL:CG1	1.53	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:398:LEU:HD12	1:i:402:ARG:NH2	1.10	1.36
1:a:126:TYR:CE1	1:a:158:MET:CE	2.08	1.36
1:b:126:TYR:CE1	1:b:158:MET:CE	2.08	1.36
1:a:17:TYR:HB2	1:a:180:VAL:CG1	1.53	1.36
1:b:20:LEU:CB	1:b:167:VAL:HG11	1.55	1.36
1:c:20:LEU:CB	1:c:167:VAL:HG11	1.55	1.36
1:c:300:VAL:HA	1:c:327:ILE:CG2	1.56	1.36
1:d:293:SER:O	1:e:288:LYS:HB2	1.23	1.36
1:e:126:TYR:CE1	1:e:158:MET:CE	2.08	1.36
1:j:126:TYR:CE1	1:j:158:MET:CE	2.08	1.36
1:l:126:TYR:CE1	1:l:158:MET:CE	2.08	1.36
1:g:17:TYR:HB2	1:g:180:VAL:CG1	1.53	1.35
1:k:126:TYR:CE1	1:k:158:MET:CE	2.08	1.35
1:a:466:ILE:CD1	1:l:481:ILE:HD13	1.39	1.35
1:b:17:TYR:HB2	1:b:180:VAL:CG1	1.53	1.35
1:f:300:VAL:HA	1:f:327:ILE:CG2	1.56	1.35
1:d:300:VAL:HA	1:d:327:ILE:CG2	1.56	1.35
1:j:20:LEU:CB	1:j:167:VAL:HG11	1.55	1.35
1:k:20:LEU:CB	1:k:167:VAL:HG11	1.55	1.35
1:a:300:VAL:HA	1:a:327:ILE:CG2	1.56	1.35
1:d:126:TYR:CE1	1:d:158:MET:CE	2.08	1.35
1:e:293:SER:O	1:f:288:LYS:HB2	1.17	1.35
1:g:293:SER:O	1:h:288:LYS:HB2	1.19	1.35
1:c:126:TYR:CE1	1:c:158:MET:CE	2.08	1.34
1:e:20:LEU:CB	1:e:167:VAL:HG11	1.55	1.34
1:g:20:LEU:CB	1:g:167:VAL:HG11	1.55	1.34
1:j:481:ILE:HD13	1:k:466:ILE:CD1	1.40	1.34
1:l:20:LEU:CB	1:l:167:VAL:HG11	1.55	1.34
1:c:293:SER:O	1:d:288:LYS:HB2	1.21	1.34
1:f:20:LEU:CB	1:f:167:VAL:HG11	1.55	1.34
1:l:300:VAL:HA	1:l:327:ILE:CG2	1.56	1.34
1:a:357:MET:SD	1:a:381:LEU:CG	2.16	1.34
1:i:293:SER:O	1:j:288:LYS:HB2	1.22	1.34
1:b:274:GLY:O	1:b:277:ARG:HG2	1.18	1.34
1:h:20:LEU:CB	1:h:167:VAL:HG11	1.55	1.34
1:f:15:SER:HB2	1:f:216:HIS:NE2	1.00	1.33
1:h:293:SER:O	1:i:288:LYS:HB2	1.18	1.33
1:k:416:GLU:OE1	1:k:419:LYS:NZ	1.61	1.33
1:a:147:LEU:HD12	1:a:407:GLN:NE2	1.02	1.33
1:a:293:SER:O	1:b:288:LYS:HB2	1.22	1.33
1:e:15:SER:HB2	1:e:216:HIS:NE2	1.01	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:300:VAL:HA	1:e:327:ILE:CG2	1.57	1.33
1:j:15:SER:HB2	1:j:216:HIS:NE2	1.01	1.33
1:j:416:GLU:OE1	1:j:419:LYS:NZ	1.61	1.33
1:k:15:SER:HB2	1:k:216:HIS:NE2	1.01	1.33
1:g:300:VAL:HA	1:g:327:ILE:CG2	1.56	1.33
1:l:147:LEU:HD12	1:l:407:GLN:NE2	1.01	1.33
1:b:300:VAL:HA	1:b:327:ILE:CG2	1.56	1.33
1:g:15:SER:HB2	1:g:216:HIS:NE2	1.01	1.33
1:i:20:LEU:CB	1:i:167:VAL:HG11	1.55	1.33
1:i:300:VAL:HA	1:i:327:ILE:CG2	1.56	1.33
1:i:416:GLU:OE1	1:i:419:LYS:NZ	1.61	1.33
1:l:416:GLU:OE1	1:l:419:LYS:NZ	1.61	1.33
1:b:147:LEU:HD12	1:b:407:GLN:NE2	1.01	1.32
1:d:15:SER:HB2	1:d:216:HIS:NE2	1.01	1.32
1:h:147:LEU:HD12	1:h:407:GLN:NE2	1.02	1.32
1:k:147:LEU:HD12	1:k:407:GLN:NE2	1.01	1.32
1:b:481:ILE:HD13	1:c:466:ILE:CD1	1.40	1.32
1:e:320:VAL:HG11	1:f:297:ILE:CG2	1.58	1.32
1:g:147:LEU:HD12	1:g:407:GLN:NE2	1.01	1.32
1:j:300:VAL:HA	1:j:327:ILE:CG2	1.56	1.32
1:k:300:VAL:HA	1:k:327:ILE:CG2	1.56	1.32
1:a:268:TYR:O	1:a:270:GLU:N	1.63	1.32
1:a:416:GLU:OE1	1:a:419:LYS:NZ	1.61	1.32
1:i:15:SER:HB2	1:i:216:HIS:NE2	1.01	1.32
1:l:15:SER:HB2	1:l:216:HIS:NE2	1.00	1.32
1:c:15:SER:HB2	1:c:216:HIS:NE2	1.01	1.32
1:h:300:VAL:HA	1:h:327:ILE:CG2	1.56	1.32
1:k:320:VAL:HG11	1:l:297:ILE:CG2	1.59	1.32
1:a:288:LYS:HB2	1:l:293:SER:O	1.20	1.32
1:c:268:TYR:O	1:c:270:GLU:N	1.63	1.32
1:g:481:ILE:HD13	1:h:466:ILE:CD1	1.39	1.32
1:h:268:TYR:O	1:h:270:GLU:N	1.63	1.32
1:h:398:LEU:CD1	1:h:402:ARG:NH2	1.87	1.32
1:i:147:LEU:HD12	1:i:407:GLN:NE2	1.02	1.32
1:i:398:LEU:CD1	1:i:402:ARG:NH2	1.87	1.32
1:k:268:TYR:O	1:k:270:GLU:N	1.63	1.32
1:a:17:TYR:OH	1:a:24:ARG:NH2	1.62	1.31
1:d:147:LEU:HD12	1:d:407:GLN:NE2	1.01	1.31
1:e:147:LEU:HD12	1:e:407:GLN:NE2	1.01	1.31
1:f:147:LEU:HD12	1:f:407:GLN:NE2	1.01	1.31
1:g:17:TYR:OH	1:g:24:ARG:NH2	1.62	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:416:GLU:OE1	1:h:419:LYS:NZ	1.61	1.31
1:j:147:LEU:HD12	1:j:407:GLN:NE2	1.01	1.31
1:j:293:SER:O	1:k:288:LYS:HB2	1.21	1.31
1:b:15:SER:HB2	1:b:216:HIS:NE2	1.00	1.31
1:b:17:TYR:OH	1:b:24:ARG:NH2	1.62	1.31
1:b:416:GLU:OE1	1:b:419:LYS:NZ	1.61	1.31
1:e:416:GLU:OE1	1:e:419:LYS:NZ	1.61	1.31
1:h:17:TYR:OH	1:h:24:ARG:NH2	1.62	1.31
1:c:274:GLY:O	1:c:277:ARG:HG2	1.18	1.31
1:d:416:GLU:OE1	1:d:419:LYS:NZ	1.61	1.31
1:a:274:GLY:O	1:a:277:ARG:HG2	1.18	1.31
1:b:290:SER:HA	1:c:284:GLU:CG	1.60	1.31
1:b:320:VAL:HG11	1:c:297:ILE:CG2	1.59	1.31
1:c:416:GLU:OE1	1:c:419:LYS:NZ	1.61	1.31
1:e:268:TYR:O	1:e:270:GLU:N	1.63	1.31
1:f:416:GLU:OE1	1:f:419:LYS:NZ	1.61	1.31
1:g:320:VAL:HG11	1:h:297:ILE:CG2	1.60	1.31
1:g:398:LEU:CD1	1:g:402:ARG:NH2	1.87	1.31
1:h:320:VAL:HG11	1:i:297:ILE:CG2	1.59	1.31
1:h:481:ILE:HD13	1:i:466:ILE:CD1	1.39	1.31
1:i:268:TYR:O	1:i:270:GLU:N	1.63	1.31
1:k:293:SER:O	1:l:288:LYS:HB2	1.19	1.31
1:b:293:SER:O	1:c:288:LYS:HB2	1.18	1.31
1:c:147:LEU:HD12	1:c:407:GLN:NE2	1.01	1.31
1:g:268:TYR:O	1:g:270:GLU:N	1.63	1.31
1:h:15:SER:HB2	1:h:216:HIS:NE2	1.01	1.31
1:a:15:SER:HB2	1:a:216:HIS:NE2	1.01	1.30
1:j:398:LEU:CD1	1:j:402:ARG:NH2	1.87	1.30
1:l:17:TYR:OH	1:l:24:ARG:NH2	1.62	1.30
1:d:290:SER:HA	1:e:284:GLU:CG	1.61	1.30
1:e:80:MET:HG3	1:e:127:ARG:NH2	1.46	1.30
1:e:290:SER:HA	1:f:284:GLU:CG	1.60	1.30
1:f:268:TYR:O	1:f:270:GLU:N	1.63	1.30
1:g:80:MET:HG3	1:g:127:ARG:NH2	1.47	1.30
1:g:416:GLU:OE1	1:g:419:LYS:NZ	1.61	1.30
1:j:80:MET:HG3	1:j:127:ARG:NH2	1.46	1.30
1:k:446:VAL:HG22	1:l:452:LEU:CD2	1.62	1.30
1:f:17:TYR:OH	1:f:24:ARG:NH2	1.62	1.30
1:f:290:SER:HA	1:g:284:GLU:CG	1.60	1.30
1:j:268:TYR:O	1:j:270:GLU:N	1.63	1.30
1:l:80:MET:HG3	1:l:127:ARG:NH2	1.46	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:80:MET:HG3	1:a:127:ARG:NH2	1.46	1.30
1:c:290:SER:HA	1:d:284:GLU:CG	1.59	1.30
1:i:17:TYR:OH	1:i:24:ARG:NH2	1.62	1.30
1:i:290:SER:HA	1:j:284:GLU:CG	1.60	1.30
1:b:268:TYR:O	1:b:270:GLU:N	1.63	1.29
1:c:17:TYR:OH	1:c:24:ARG:NH2	1.62	1.29
1:c:80:MET:HG3	1:c:127:ARG:NH2	1.46	1.29
1:a:284:GLU:CG	1:l:290:SER:HA	1.60	1.29
1:b:42:LEU:O	1:b:162:ARG:NH2	1.65	1.29
1:e:42:LEU:O	1:e:162:ARG:NH2	1.65	1.29
1:i:42:LEU:O	1:i:162:ARG:NH2	1.65	1.29
1:k:290:SER:HA	1:l:284:GLU:CG	1.61	1.29
1:l:42:LEU:O	1:l:162:ARG:NH2	1.65	1.29
1:a:83:TRP:CD1	1:a:118:MET:HE1	1.67	1.29
1:e:446:VAL:HG22	1:f:452:LEU:CD2	1.61	1.29
1:f:42:LEU:O	1:f:162:ARG:NH2	1.65	1.29
1:f:110:LEU:HD12	1:f:111:SER:N	1.47	1.29
1:f:398:LEU:CD1	1:f:402:ARG:NH2	1.87	1.29
1:g:290:SER:HA	1:h:284:GLU:CG	1.60	1.29
1:h:42:LEU:O	1:h:162:ARG:NH2	1.65	1.29
1:j:42:LEU:O	1:j:162:ARG:NH2	1.65	1.29
1:j:290:SER:HA	1:k:284:GLU:CG	1.60	1.29
1:b:80:MET:HG3	1:b:127:ARG:NH2	1.46	1.29
1:d:80:MET:HG3	1:d:127:ARG:NH2	1.46	1.29
1:h:110:LEU:HD12	1:h:111:SER:N	1.47	1.29
1:l:83:TRP:CD1	1:l:118:MET:HE1	1.67	1.29
1:a:290:SER:HA	1:b:284:GLU:CG	1.60	1.29
1:b:83:TRP:CD1	1:b:118:MET:HE1	1.67	1.29
1:h:83:TRP:CD1	1:h:118:MET:HE1	1.67	1.28
1:i:80:MET:HG3	1:i:127:ARG:NH2	1.46	1.28
1:l:268:TYR:O	1:l:270:GLU:N	1.63	1.28
1:c:83:TRP:CD1	1:c:118:MET:HE1	1.67	1.28
1:f:80:MET:HG3	1:f:127:ARG:NH2	1.46	1.28
1:f:83:TRP:CD1	1:f:118:MET:HE1	1.67	1.28
1:k:83:TRP:CD1	1:k:118:MET:HE1	1.67	1.28
1:k:398:LEU:CD1	1:k:402:ARG:NH2	1.87	1.28
1:b:78:PHE:HZ	1:b:130:LEU:CD1	1.46	1.28
1:h:80:MET:HG3	1:h:127:ARG:NH2	1.46	1.28
1:j:78:PHE:HZ	1:j:130:LEU:CD1	1.47	1.28
1:a:297:ILE:CG2	1:l:320:VAL:HG11	1.61	1.28
1:d:268:TYR:O	1:d:270:GLU:N	1.63	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:147:LEU:CD1	1:e:407:GLN:NE2	1.91	1.28
1:k:17:TYR:OH	1:k:24:ARG:NH2	1.62	1.28
1:f:37:TYR:HE2	1:f:276:LEU:CD1	1.47	1.28
1:g:37:TYR:HE2	1:g:276:LEU:CD1	1.47	1.28
1:h:290:SER:HA	1:i:284:GLU:CG	1.60	1.28
1:j:274:GLY:O	1:j:277:ARG:HG2	1.18	1.28
1:k:78:PHE:HZ	1:k:130:LEU:CD1	1.47	1.28
1:k:80:MET:HG3	1:k:127:ARG:NH2	1.46	1.28
1:k:147:LEU:CD1	1:k:407:GLN:NE2	1.90	1.28
1:k:274:GLY:O	1:k:277:ARG:HG2	1.18	1.28
1:a:320:VAL:HG11	1:b:297:ILE:CG2	1.63	1.27
1:c:147:LEU:CD1	1:c:407:GLN:NE2	1.90	1.27
1:e:17:TYR:OH	1:e:24:ARG:NH2	1.62	1.27
1:e:37:TYR:HE2	1:e:276:LEU:CD1	1.47	1.27
1:e:110:LEU:HD12	1:e:111:SER:N	1.47	1.27
1:g:446:VAL:HG22	1:h:452:LEU:CD2	1.62	1.27
1:h:37:TYR:HE2	1:h:276:LEU:CD1	1.47	1.27
1:h:446:VAL:HG22	1:i:452:LEU:CD2	1.62	1.27
1:i:37:TYR:HE2	1:i:276:LEU:CD1	1.47	1.27
1:k:481:ILE:CD1	1:l:466:ILE:CG1	2.12	1.27
1:b:446:VAL:HG22	1:c:452:LEU:CD2	1.64	1.27
1:c:78:PHE:HZ	1:c:130:LEU:CD1	1.47	1.27
1:i:78:PHE:HZ	1:i:130:LEU:CD1	1.46	1.27
1:j:83:TRP:CD1	1:j:118:MET:HE1	1.67	1.27
1:a:42:LEU:O	1:a:162:ARG:NH2	1.65	1.27
1:a:110:LEU:HD12	1:a:111:SER:N	1.47	1.27
1:a:452:LEU:CD2	1:l:446:VAL:HG22	1.64	1.27
1:c:42:LEU:O	1:c:162:ARG:NH2	1.65	1.27
1:c:110:LEU:HD12	1:c:111:SER:N	1.47	1.27
1:d:37:TYR:HE2	1:d:276:LEU:CD1	1.47	1.27
1:d:83:TRP:CD1	1:d:118:MET:HE1	1.67	1.27
1:d:110:LEU:HD12	1:d:111:SER:N	1.47	1.27
1:d:319:PHE:HE2	1:e:311:LEU:CD1	1.28	1.27
1:g:147:LEU:CD1	1:g:407:GLN:NE2	1.91	1.27
1:h:274:GLY:O	1:h:277:ARG:HG2	1.18	1.27
1:a:78:PHE:HZ	1:a:130:LEU:CD1	1.47	1.27
1:a:147:LEU:CD1	1:a:407:GLN:NE2	1.91	1.27
1:a:385:LEU:O	1:a:388:VAL:HG23	1.11	1.27
1:c:37:TYR:HE2	1:c:276:LEU:CD1	1.47	1.27
1:c:446:VAL:HG22	1:d:452:LEU:CD2	1.64	1.27
1:g:274:GLY:O	1:g:277:ARG:HG2	1.18	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:17:TYR:OH	1:j:24:ARG:NH2	1.62	1.27
1:j:37:TYR:HE2	1:j:276:LEU:CD1	1.47	1.27
1:a:481:ILE:CD1	1:b:466:ILE:CG1	2.11	1.27
1:c:320:VAL:HG11	1:d:297:ILE:CG2	1.62	1.27
1:d:42:LEU:O	1:d:162:ARG:NH2	1.65	1.27
1:f:320:VAL:HG11	1:g:297:ILE:CG2	1.64	1.27
1:b:359:ASN:ND2	1:c:380:GLU:HB3	1.47	1.26
1:d:17:TYR:OH	1:d:24:ARG:NH2	1.62	1.26
1:d:274:GLY:O	1:d:277:ARG:HG2	1.18	1.26
1:e:398:LEU:CD1	1:e:402:ARG:NH2	1.87	1.26
1:i:83:TRP:CD1	1:i:118:MET:HE1	1.67	1.26
1:i:320:VAL:HG11	1:j:297:ILE:CG2	1.63	1.26
1:l:78:PHE:HZ	1:l:130:LEU:CD1	1.46	1.26
1:b:257:VAL:CG2	1:b:267:SER:CB	2.10	1.26
1:b:385:LEU:O	1:b:388:VAL:HG23	1.11	1.26
1:c:244:TYR:CG	1:c:249:CYS:O	1.89	1.26
1:d:481:ILE:CD1	1:e:466:ILE:CG1	2.13	1.26
1:e:83:TRP:CD1	1:e:118:MET:HE1	1.67	1.26
1:e:481:ILE:CD1	1:f:466:ILE:CG1	2.12	1.26
1:f:78:PHE:HZ	1:f:130:LEU:CD1	1.46	1.26
1:i:481:ILE:CD1	1:j:466:ILE:CG1	2.12	1.26
1:k:37:TYR:HE2	1:k:276:LEU:CD1	1.47	1.26
1:k:110:LEU:HD12	1:k:111:SER:N	1.47	1.26
1:f:481:ILE:CD1	1:g:466:ILE:CG1	2.14	1.26
1:g:42:LEU:O	1:g:162:ARG:NH2	1.65	1.26
1:g:83:TRP:CD1	1:g:118:MET:HE1	1.67	1.26
1:j:110:LEU:HD12	1:j:111:SER:N	1.47	1.26
1:j:147:LEU:CD1	1:j:407:GLN:NE2	1.91	1.26
1:j:244:TYR:CG	1:j:249:CYS:O	1.89	1.26
1:j:359:ASN:ND2	1:k:380:GLU:HB3	1.48	1.26
1:j:446:VAL:HG22	1:k:452:LEU:CD2	1.66	1.26
1:k:244:TYR:CG	1:k:249:CYS:O	1.89	1.26
1:k:359:ASN:ND2	1:l:380:GLU:HB3	1.47	1.26
1:l:274:GLY:O	1:l:277:ARG:HG2	1.18	1.26
1:l:385:LEU:O	1:l:388:VAL:HG23	1.11	1.26
1:a:446:VAL:HG22	1:b:452:LEU:CD2	1.65	1.26
1:b:37:TYR:HE2	1:b:276:LEU:CD1	1.47	1.26
1:b:244:TYR:CG	1:b:249:CYS:O	1.89	1.26
1:f:385:LEU:O	1:f:388:VAL:HG23	1.11	1.26
1:g:110:LEU:HD12	1:g:111:SER:N	1.47	1.26
1:g:359:ASN:ND2	1:h:380:GLU:HB3	1.47	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:385:LEU:O	1:g:388:VAL:HG23	1.11	1.26
1:j:320:VAL:HG11	1:k:297:ILE:CG2	1.62	1.26
1:a:37:TYR:HE2	1:a:276:LEU:CD1	1.47	1.26
1:a:466:ILE:CG1	1:l:481:ILE:CD1	2.12	1.26
1:d:244:TYR:CG	1:d:249:CYS:O	1.89	1.26
1:f:244:TYR:CG	1:f:249:CYS:O	1.89	1.26
1:g:244:TYR:CG	1:g:249:CYS:O	1.89	1.26
1:h:244:TYR:CG	1:h:249:CYS:O	1.89	1.26
1:h:385:LEU:O	1:h:388:VAL:HG23	1.11	1.26
1:i:110:LEU:HD12	1:i:111:SER:N	1.47	1.26
1:i:274:GLY:O	1:i:277:ARG:HG2	1.18	1.26
1:l:37:TYR:HE2	1:l:276:LEU:CD1	1.47	1.26
1:l:398:LEU:CD1	1:l:402:ARG:NH2	1.87	1.26
1:g:78:PHE:HZ	1:g:130:LEU:CD1	1.47	1.25
1:h:481:ILE:CD1	1:i:466:ILE:CG1	2.12	1.25
1:k:320:VAL:CG1	1:l:297:ILE:HG22	1.66	1.25
1:d:78:PHE:HZ	1:d:130:LEU:CD1	1.46	1.25
1:e:274:GLY:O	1:e:277:ARG:HG2	1.18	1.25
1:f:274:GLY:O	1:f:277:ARG:HG2	1.18	1.25
1:g:481:ILE:CD1	1:h:466:ILE:CG1	2.12	1.25
1:a:244:TYR:CG	1:a:249:CYS:O	1.89	1.25
1:e:78:PHE:HZ	1:e:130:LEU:CD1	1.47	1.25
1:e:481:ILE:HD13	1:f:466:ILE:CD1	1.39	1.25
1:h:359:ASN:ND2	1:i:380:GLU:HB3	1.47	1.25
1:i:446:VAL:HG22	1:j:452:LEU:CD2	1.65	1.25
1:d:320:VAL:HG11	1:e:297:ILE:CG2	1.64	1.25
1:g:257:VAL:CG2	1:g:267:SER:CB	2.10	1.25
1:l:244:TYR:CG	1:l:249:CYS:O	1.89	1.25
1:d:359:ASN:ND2	1:e:380:GLU:HB3	1.49	1.25
1:e:385:LEU:O	1:e:388:VAL:HG23	1.11	1.25
1:h:78:PHE:HZ	1:h:130:LEU:CD1	1.46	1.25
1:k:42:LEU:O	1:k:162:ARG:NH2	1.65	1.25
1:l:110:LEU:HD12	1:l:111:SER:N	1.47	1.25
1:e:244:TYR:CG	1:e:249:CYS:O	1.89	1.25
1:i:385:LEU:O	1:i:388:VAL:HG23	1.11	1.25
1:b:481:ILE:CD1	1:c:466:ILE:CG1	2.13	1.24
1:e:359:ASN:ND2	1:f:380:GLU:HB3	1.46	1.24
1:e:480:GLY:CA	1:f:465:MET:HG2	1.67	1.24
1:i:244:TYR:CG	1:i:249:CYS:O	1.89	1.24
1:c:319:PHE:HE2	1:d:311:LEU:CD1	1.31	1.24
1:d:398:LEU:CD1	1:d:402:ARG:NH2	1.87	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:37:TYR:CE2	1:g:276:LEU:CD1	2.21	1.24
1:k:257:VAL:CG2	1:k:267:SER:CB	2.10	1.24
1:k:385:LEU:O	1:k:388:VAL:HG23	1.11	1.24
1:l:257:VAL:CG2	1:l:267:SER:CB	2.10	1.24
1:c:385:LEU:O	1:c:388:VAL:HG23	1.11	1.24
1:a:398:LEU:CD1	1:a:402:ARG:NH2	1.87	1.24
1:b:110:LEU:HD12	1:b:111:SER:N	1.47	1.24
1:d:37:TYR:CE2	1:d:276:LEU:CD1	2.21	1.24
1:i:37:TYR:CE2	1:i:276:LEU:CD1	2.21	1.24
1:k:480:GLY:CA	1:l:465:MET:HG2	1.67	1.24
1:a:257:VAL:CG2	1:a:267:SER:CB	2.10	1.24
1:e:37:TYR:CE2	1:e:276:LEU:CD1	2.21	1.24
1:g:320:VAL:CG1	1:h:297:ILE:CG2	2.16	1.24
1:j:481:ILE:CD1	1:k:466:ILE:CG1	2.14	1.24
1:b:78:PHE:CZ	1:b:130:LEU:CD1	2.21	1.23
1:f:37:TYR:CE2	1:f:276:LEU:CD1	2.21	1.23
1:f:319:PHE:HE2	1:g:311:LEU:CD1	1.28	1.23
1:h:320:VAL:CG1	1:i:297:ILE:HG22	1.66	1.23
1:k:78:PHE:CZ	1:k:130:LEU:CD1	2.22	1.23
1:a:465:MET:HG2	1:l:480:GLY:CA	1.68	1.23
1:b:319:PHE:HE2	1:c:311:LEU:CD1	1.32	1.23
1:l:78:PHE:CZ	1:l:130:LEU:CD1	2.21	1.23
1:a:311:LEU:CD1	1:l:319:PHE:HE2	1.31	1.23
1:c:257:VAL:CG2	1:c:267:SER:CB	2.10	1.23
1:c:398:LEU:CD1	1:c:402:ARG:NH2	1.87	1.23
1:c:480:GLY:CA	1:d:465:MET:HG2	1.67	1.23
1:d:385:LEU:O	1:d:388:VAL:HG23	1.11	1.23
1:h:37:TYR:CE2	1:h:276:LEU:CD1	2.21	1.23
1:i:147:LEU:CD1	1:i:407:GLN:NE2	1.91	1.23
1:a:78:PHE:CZ	1:a:130:LEU:CD1	2.22	1.23
1:a:297:ILE:CG2	1:l:320:VAL:CG1	2.17	1.23
1:a:319:PHE:HE2	1:b:311:LEU:CD1	1.31	1.23
1:b:37:TYR:CE2	1:b:276:LEU:CD1	2.21	1.23
1:e:257:VAL:CG2	1:e:267:SER:CB	2.10	1.23
1:h:480:GLY:CA	1:i:465:MET:HG2	1.67	1.23
1:j:257:VAL:CG2	1:j:267:SER:CB	2.10	1.23
1:b:254:ILE:HD11	1:b:396:LEU:CD2	1.69	1.22
1:b:398:LEU:CD1	1:b:402:ARG:NH2	1.87	1.22
1:d:254:ILE:HD11	1:d:396:LEU:CD2	1.69	1.22
1:e:320:VAL:CG1	1:f:297:ILE:CG2	2.15	1.22
1:j:385:LEU:O	1:j:388:VAL:HG23	1.11	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:320:VAL:CG1	1:l:297:ILE:CG2	2.16	1.22
1:l:37:TYR:CE2	1:l:276:LEU:CD1	2.21	1.22
1:l:254:ILE:HD11	1:l:396:LEU:CD2	1.69	1.22
1:d:300:VAL:CG1	1:d:327:ILE:CG2	2.08	1.22
1:d:446:VAL:HG22	1:e:452:LEU:CD2	1.68	1.22
1:f:78:PHE:CZ	1:f:130:LEU:CD1	2.21	1.22
1:h:257:VAL:CG2	1:h:267:SER:CB	2.10	1.22
1:i:78:PHE:CZ	1:i:130:LEU:CD1	2.21	1.22
1:j:37:TYR:CE2	1:j:276:LEU:CD1	2.21	1.22
1:b:320:VAL:CG1	1:c:297:ILE:HG22	1.66	1.22
1:j:254:ILE:HD11	1:j:396:LEU:CD2	1.69	1.22
1:a:37:TYR:CE2	1:a:276:LEU:CD1	2.21	1.22
1:b:320:VAL:CG1	1:c:297:ILE:CG2	2.16	1.22
1:d:78:PHE:CZ	1:d:130:LEU:CD1	2.21	1.22
1:g:320:VAL:CG1	1:h:297:ILE:HG22	1.67	1.22
1:g:480:GLY:CA	1:h:465:MET:HG2	1.67	1.22
1:j:320:VAL:CG1	1:k:297:ILE:CG2	2.18	1.22
1:k:37:TYR:CE2	1:k:276:LEU:CD1	2.21	1.22
1:c:37:TYR:CE2	1:c:276:LEU:CD1	2.21	1.22
1:e:254:ILE:HD11	1:e:396:LEU:CD2	1.69	1.22
1:e:464:ALA:CB	1:f:460:ASP:OD2	1.88	1.22
1:g:78:PHE:CZ	1:g:130:LEU:CD1	2.22	1.22
1:g:254:ILE:HD11	1:g:396:LEU:CD2	1.69	1.22
1:l:147:LEU:CD1	1:l:407:GLN:NE2	1.91	1.22
1:c:254:ILE:HD11	1:c:396:LEU:CD2	1.69	1.21
1:i:320:VAL:CG1	1:j:297:ILE:HG22	1.70	1.21
1:j:78:PHE:CZ	1:j:130:LEU:CD1	2.21	1.21
1:k:464:ALA:CB	1:l:460:ASP:OD2	1.88	1.21
1:a:254:ILE:HD11	1:a:396:LEU:CD2	1.69	1.21
1:a:320:VAL:CG1	1:b:297:ILE:HG22	1.70	1.21
1:b:480:GLY:CA	1:c:465:MET:HG2	1.68	1.21
1:d:59:GLN:NE2	1:d:278:SER:HB3	1.56	1.21
1:e:319:PHE:HE2	1:f:311:LEU:CD1	1.34	1.21
1:e:320:VAL:CG1	1:f:297:ILE:HG22	1.65	1.21
1:h:78:PHE:CZ	1:h:130:LEU:CD1	2.21	1.21
1:j:320:VAL:CG1	1:k:297:ILE:HG22	1.68	1.21
1:a:59:GLN:NE2	1:a:278:SER:HB3	1.56	1.21
1:e:78:PHE:CZ	1:e:130:LEU:CD1	2.22	1.21
1:h:464:ALA:CB	1:i:460:ASP:OD2	1.88	1.21
1:i:320:VAL:CG1	1:j:297:ILE:CG2	2.19	1.21
1:i:480:GLY:CA	1:j:465:MET:HG2	1.69	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:297:ILE:HG22	1:l:320:VAL:CG1	1.68	1.21
1:a:480:GLY:CA	1:b:465:MET:HG2	1.68	1.21
1:c:59:GLN:NE2	1:c:278:SER:HB3	1.56	1.21
1:c:78:PHE:CZ	1:c:130:LEU:CD1	2.22	1.21
1:d:126:TYR:CZ	1:d:158:MET:HE3	1.76	1.21
1:e:300:VAL:CG1	1:e:327:ILE:CG2	2.08	1.21
1:f:446:VAL:HG22	1:g:452:LEU:CD2	1.68	1.21
1:k:59:GLN:NE2	1:k:278:SER:HB3	1.56	1.21
1:c:359:ASN:HB3	1:d:380:GLU:OE1	1.40	1.21
1:f:254:ILE:HD11	1:f:396:LEU:CD2	1.69	1.21
1:h:59:GLN:NE2	1:h:278:SER:HB3	1.56	1.21
1:i:254:ILE:HD11	1:i:396:LEU:CD2	1.69	1.21
1:k:126:TYR:CZ	1:k:158:MET:HE3	1.76	1.21
1:a:126:TYR:CZ	1:a:158:MET:HE3	1.76	1.20
1:b:126:TYR:CZ	1:b:158:MET:HE3	1.76	1.20
1:c:320:VAL:CG1	1:d:297:ILE:HG22	1.69	1.20
1:f:59:GLN:NE2	1:f:278:SER:HB3	1.56	1.20
1:h:126:TYR:CZ	1:h:158:MET:HE3	1.76	1.20
1:h:300:VAL:CB	1:h:327:ILE:CG2	2.20	1.20
1:h:320:VAL:CG1	1:i:297:ILE:CG2	2.16	1.20
1:i:257:VAL:CG2	1:i:267:SER:CB	2.10	1.20
1:j:59:GLN:NE2	1:j:278:SER:HB3	1.56	1.20
1:j:126:TYR:CZ	1:j:158:MET:HE3	1.76	1.20
1:k:254:ILE:HD11	1:k:396:LEU:CD2	1.69	1.20
1:b:464:ALA:CB	1:c:460:ASP:OD2	1.89	1.20
1:f:126:TYR:CZ	1:f:158:MET:HE3	1.76	1.20
1:g:300:VAL:CB	1:g:327:ILE:CG2	2.20	1.20
1:g:464:ALA:CB	1:h:460:ASP:OD2	1.88	1.20
1:h:254:ILE:HD11	1:h:396:LEU:CD2	1.69	1.20
1:i:59:GLN:NE2	1:i:278:SER:HB3	1.56	1.20
1:j:480:GLY:CA	1:k:465:MET:HG2	1.70	1.20
1:c:320:VAL:CG1	1:d:297:ILE:CG2	2.18	1.20
1:f:480:GLY:CA	1:g:465:MET:HG2	1.71	1.20
1:i:300:VAL:CB	1:i:327:ILE:CG2	2.20	1.20
1:c:464:ALA:CB	1:d:460:ASP:OD2	1.88	1.20
1:d:132:GLU:OE2	1:e:259:LEU:HB2	1.41	1.20
1:e:300:VAL:CB	1:e:327:ILE:CG2	2.20	1.20
1:f:300:VAL:CB	1:f:327:ILE:CG2	2.20	1.20
1:i:289:MET:HE3	1:j:340:VAL:HG12	1.23	1.20
1:i:359:ASN:HB3	1:j:380:GLU:OE1	1.42	1.20
1:i:416:GLU:HB3	1:i:419:LYS:HE2	1.21	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:464:ALA:CB	1:j:460:ASP:OD2	1.89	1.20
1:b:147:LEU:CD1	1:b:407:GLN:NE2	1.91	1.20
1:b:293:SER:O	1:c:288:LYS:CB	1.90	1.20
1:d:464:ALA:CB	1:e:460:ASP:OD2	1.90	1.20
1:a:320:VAL:CG1	1:b:297:ILE:CG2	2.18	1.19
1:a:368:ARG:HA	1:b:373:GLU:OE2	1.42	1.19
1:e:59:GLN:NE2	1:e:278:SER:HB3	1.56	1.19
1:f:257:VAL:CG2	1:f:267:SER:CB	2.10	1.19
1:i:126:TYR:CZ	1:i:158:MET:HE3	1.76	1.19
1:j:300:VAL:CB	1:j:327:ILE:CG2	2.20	1.19
1:b:59:GLN:NE2	1:b:278:SER:HB3	1.56	1.19
1:c:126:TYR:CZ	1:c:158:MET:HE3	1.76	1.19
1:d:257:VAL:CG2	1:d:267:SER:CB	2.10	1.19
1:d:300:VAL:CB	1:d:327:ILE:CG2	2.20	1.19
1:h:416:GLU:HB3	1:h:419:LYS:HE2	1.21	1.19
1:i:132:GLU:OE2	1:j:259:LEU:HB2	1.42	1.19
1:j:464:ALA:CB	1:k:460:ASP:OD2	1.90	1.19
1:a:460:ASP:OD2	1:l:464:ALA:CB	1.89	1.19
1:a:464:ALA:CB	1:b:460:ASP:OD2	1.89	1.19
1:b:68:ASN:ND2	1:b:358:LEU:HD22	1.56	1.19
1:c:37:TYR:CE2	1:c:276:LEU:HD11	1.78	1.19
1:d:147:LEU:CD1	1:d:407:GLN:NE2	1.91	1.19
1:d:320:VAL:CG1	1:e:297:ILE:HG22	1.71	1.19
1:e:126:TYR:CZ	1:e:158:MET:HE3	1.76	1.19
1:f:147:LEU:CD1	1:f:407:GLN:NE2	1.91	1.19
1:k:37:TYR:CE2	1:k:276:LEU:HD11	1.78	1.19
1:a:259:LEU:HB2	1:l:132:GLU:OE2	1.42	1.19
1:a:300:VAL:CB	1:a:327:ILE:CG2	2.20	1.19
1:a:416:GLU:HB3	1:a:419:LYS:HE2	1.21	1.19
1:b:37:TYR:CE2	1:b:276:LEU:HD11	1.78	1.19
1:e:34:CYS:SG	1:e:270:GLU:HG2	1.82	1.19
1:f:320:VAL:CG1	1:g:297:ILE:HG22	1.71	1.19
1:g:319:PHE:HE2	1:h:311:LEU:CD1	1.33	1.19
1:h:37:TYR:CE2	1:h:276:LEU:HD11	1.78	1.19
1:h:68:ASN:ND2	1:h:358:LEU:HD22	1.55	1.19
1:k:319:PHE:HE2	1:l:311:LEU:CD1	1.32	1.19
1:l:59:GLN:NE2	1:l:278:SER:HB3	1.55	1.19
1:a:34:CYS:SG	1:a:270:GLU:HG2	1.82	1.19
1:b:132:GLU:OE2	1:c:259:LEU:HB2	1.43	1.19
1:b:300:VAL:CB	1:b:327:ILE:CG2	2.20	1.19
1:d:289:MET:HE3	1:e:340:VAL:CG1	1.73	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:37:TYR:CE2	1:e:276:LEU:HD11	1.78	1.19
1:g:126:TYR:CZ	1:g:158:MET:HE3	1.76	1.19
1:j:34:CYS:SG	1:j:270:GLU:HG2	1.83	1.19
1:l:34:CYS:SG	1:l:270:GLU:HG2	1.82	1.19
1:l:37:TYR:CE2	1:l:276:LEU:HD11	1.78	1.19
1:d:480:GLY:CA	1:e:465:MET:HG2	1.71	1.18
1:f:132:GLU:OE2	1:g:259:LEU:HB2	1.41	1.18
1:i:37:TYR:CE2	1:i:276:LEU:HD11	1.78	1.18
1:j:416:GLU:HB3	1:j:419:LYS:HE2	1.21	1.18
1:k:300:VAL:CB	1:k:327:ILE:CG2	2.20	1.18
1:l:126:TYR:CZ	1:l:158:MET:HE3	1.76	1.18
1:c:300:VAL:CB	1:c:327:ILE:CG2	2.20	1.18
1:f:37:TYR:CE2	1:f:276:LEU:HD11	1.78	1.18
1:f:359:ASN:HB3	1:g:380:GLU:OE1	1.44	1.18
1:g:34:CYS:SG	1:g:270:GLU:HG2	1.83	1.18
1:h:289:MET:HE3	1:i:340:VAL:HG12	1.21	1.18
1:i:319:PHE:HE2	1:j:311:LEU:CD1	1.30	1.18
1:a:132:GLU:OE2	1:b:259:LEU:HB2	1.42	1.18
1:d:34:CYS:SG	1:d:270:GLU:HG2	1.82	1.18
1:d:320:VAL:CG1	1:e:297:ILE:CG2	2.20	1.18
1:e:293:SER:O	1:f:288:LYS:CB	1.90	1.18
1:f:319:PHE:CE2	1:g:311:LEU:HD12	1.60	1.18
1:f:464:ALA:CB	1:g:460:ASP:OD2	1.90	1.18
1:h:60:ALA:HB2	1:i:274:GLY:HA3	1.18	1.18
1:b:59:GLN:NE2	1:b:275:ASP:OD1	1.77	1.18
1:b:289:MET:HE3	1:c:340:VAL:CG1	1.73	1.18
1:c:59:GLN:NE2	1:c:275:ASP:OD1	1.77	1.18
1:f:300:VAL:CG1	1:f:327:ILE:CG2	2.08	1.18
1:g:59:GLN:NE2	1:g:278:SER:HB3	1.56	1.18
1:g:289:MET:HE3	1:h:340:VAL:CG1	1.73	1.18
1:j:37:TYR:CE2	1:j:276:LEU:HD11	1.78	1.18
1:k:289:MET:HE3	1:l:340:VAL:CG1	1.72	1.18
1:k:293:SER:O	1:l:288:LYS:CB	1.91	1.18
1:l:300:VAL:CB	1:l:327:ILE:CG2	2.20	1.18
1:l:416:GLU:HB3	1:l:419:LYS:HE2	1.21	1.18
1:c:132:GLU:OE2	1:d:259:LEU:HB2	1.42	1.18
1:c:385:LEU:O	1:c:388:VAL:CG2	1.92	1.18
1:g:132:GLU:OE2	1:h:259:LEU:HB2	1.43	1.18
1:j:132:GLU:OE2	1:k:259:LEU:HB2	1.42	1.18
1:k:34:CYS:SG	1:k:270:GLU:HG2	1.82	1.18
1:k:132:GLU:OE2	1:l:259:LEU:HB2	1.43	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:300:VAL:CG1	1:a:327:ILE:CG2	2.08	1.17
1:a:319:PHE:CE2	1:b:311:LEU:HD12	1.62	1.17
1:c:34:CYS:SG	1:c:270:GLU:HG2	1.82	1.17
1:i:34:CYS:SG	1:i:270:GLU:HG2	1.83	1.17
1:i:59:GLN:NE2	1:i:275:ASP:OD1	1.77	1.17
1:j:289:MET:HE3	1:k:340:VAL:CG1	1.73	1.17
1:j:319:PHE:HE2	1:k:311:LEU:CD1	1.30	1.17
1:j:385:LEU:O	1:j:388:VAL:CG2	1.92	1.17
1:l:385:LEU:O	1:l:388:VAL:CG2	1.92	1.17
1:a:37:TYR:CE2	1:a:276:LEU:HD11	1.78	1.17
1:a:288:LYS:CB	1:l:293:SER:O	1.92	1.17
1:b:34:CYS:SG	1:b:270:GLU:HG2	1.82	1.17
1:b:416:GLU:HB3	1:b:419:LYS:HE2	1.21	1.17
1:e:289:MET:HE3	1:f:340:VAL:CG1	1.73	1.17
1:f:289:MET:HE3	1:g:340:VAL:CG1	1.74	1.17
1:g:37:TYR:CE2	1:g:276:LEU:HD11	1.78	1.17
1:h:289:MET:HE3	1:i:340:VAL:CG1	1.73	1.17
1:i:359:ASN:CB	1:j:380:GLU:OE1	1.93	1.17
1:a:274:GLY:HA3	1:l:60:ALA:HB2	1.18	1.17
1:a:289:MET:HE3	1:b:340:VAL:CG1	1.73	1.17
1:c:293:SER:O	1:d:288:LYS:CB	1.93	1.17
1:d:37:TYR:CE2	1:d:276:LEU:HD11	1.78	1.17
1:d:59:GLN:NE2	1:d:275:ASP:OD1	1.77	1.17
1:g:60:ALA:HB2	1:h:274:GLY:HA3	1.19	1.17
1:h:59:GLN:NE2	1:h:275:ASP:OD1	1.77	1.17
1:h:319:PHE:HE2	1:i:311:LEU:CD1	1.32	1.17
1:a:59:GLN:NE2	1:a:275:ASP:OD1	1.77	1.17
1:a:385:LEU:O	1:a:388:VAL:CG2	1.93	1.17
1:e:385:LEU:O	1:e:388:VAL:CG2	1.92	1.17
1:f:34:CYS:SG	1:f:270:GLU:HG2	1.82	1.17
1:h:34:CYS:SG	1:h:270:GLU:HG2	1.83	1.17
1:h:147:LEU:CD1	1:h:407:GLN:NE2	1.91	1.17
1:h:293:SER:O	1:i:288:LYS:CB	1.90	1.17
1:i:319:PHE:CE2	1:j:311:LEU:HD12	1.62	1.17
1:j:293:SER:O	1:k:288:LYS:CB	1.92	1.17
1:b:385:LEU:O	1:b:388:VAL:CG2	1.92	1.17
1:c:289:MET:HE3	1:d:340:VAL:CG1	1.74	1.17
1:c:359:ASN:CB	1:d:380:GLU:OE1	1.92	1.17
1:d:128:VAL:HG12	1:e:390:SER:OG	1.45	1.17
1:b:300:VAL:CG1	1:b:327:ILE:CG2	2.08	1.16
1:h:385:LEU:O	1:h:388:VAL:CG2	1.92	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:60:ALA:HB2	1:j:274:GLY:HA3	1.17	1.16
1:j:289:MET:HE3	1:k:340:VAL:HG12	1.23	1.16
1:k:60:ALA:HB2	1:l:274:GLY:HA3	1.19	1.16
1:k:132:GLU:HG2	1:l:258:ARG:O	1.45	1.16
1:a:258:ARG:O	1:l:132:GLU:HG2	1.44	1.16
1:e:68:ASN:ND2	1:e:358:LEU:HD22	1.58	1.16
1:e:446:VAL:CG2	1:f:452:LEU:CD2	2.19	1.16
1:f:320:VAL:CG1	1:g:297:ILE:CG2	2.20	1.16
1:g:412:GLN:O	1:g:414:ILE:HD12	0.99	1.16
1:k:59:GLN:NE2	1:k:275:ASP:OD1	1.77	1.16
1:f:59:GLN:NE2	1:f:275:ASP:OD1	1.77	1.16
1:f:412:GLN:O	1:f:414:ILE:HD12	0.99	1.16
1:g:59:GLN:NE2	1:g:275:ASP:OD1	1.77	1.16
1:g:293:SER:O	1:h:288:LYS:CB	1.92	1.16
1:g:416:GLU:HB3	1:g:419:LYS:HE2	1.21	1.16
1:j:59:GLN:NE2	1:j:275:ASP:OD1	1.77	1.16
1:j:60:ALA:HB2	1:k:274:GLY:HA3	1.18	1.16
1:k:385:LEU:O	1:k:388:VAL:CG2	1.92	1.16
1:d:385:LEU:O	1:d:388:VAL:CG2	1.93	1.16
1:e:80:MET:CE	1:e:122:GLU:OE2	1.94	1.16
1:f:481:ILE:HD11	1:g:466:ILE:HD11	1.25	1.16
1:g:80:MET:CE	1:g:122:GLU:OE2	1.94	1.16
1:k:68:ASN:ND2	1:k:358:LEU:HD22	1.58	1.16
1:k:289:MET:HE3	1:l:340:VAL:HG12	1.21	1.16
1:a:60:ALA:HB2	1:b:274:GLY:HA3	1.18	1.16
1:d:80:MET:CE	1:d:122:GLU:OE2	1.94	1.16
1:f:385:LEU:O	1:f:388:VAL:CG2	1.92	1.16
1:g:385:LEU:O	1:g:388:VAL:CG2	1.92	1.16
1:h:412:GLN:O	1:h:414:ILE:HD12	0.99	1.16
1:j:446:VAL:CG2	1:k:452:LEU:CD2	2.23	1.16
1:l:17:TYR:CB	1:l:180:VAL:HG11	1.76	1.16
1:a:293:SER:O	1:b:288:LYS:CB	1.94	1.15
1:a:340:VAL:HG12	1:l:289:MET:HE3	1.22	1.15
1:b:132:GLU:HG2	1:c:258:ARG:O	1.45	1.15
1:c:359:ASN:OD1	1:d:380:GLU:CD	1.89	1.15
1:e:412:GLN:O	1:e:414:ILE:HD12	0.99	1.15
1:f:359:ASN:CB	1:g:380:GLU:OE1	1.94	1.15
1:h:446:VAL:CG2	1:i:452:LEU:CD2	2.20	1.15
1:i:132:GLU:HG2	1:j:258:ARG:O	1.45	1.15
1:j:80:MET:CE	1:j:122:GLU:OE2	1.94	1.15
1:k:17:TYR:CB	1:k:180:VAL:HG11	1.76	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:59:GLN:NE2	1:l:275:ASP:OD1	1.77	1.15
1:a:380:GLU:HB3	1:l:359:ASN:ND2	1.62	1.15
1:b:80:MET:CE	1:b:122:GLU:OE2	1.94	1.15
1:e:59:GLN:NE2	1:e:275:ASP:OD1	1.77	1.15
1:e:132:GLU:HG2	1:f:258:ARG:O	1.45	1.15
1:h:80:MET:CE	1:h:122:GLU:OE2	1.94	1.15
1:h:300:VAL:CB	1:h:327:ILE:HG21	1.77	1.15
1:i:80:MET:CE	1:i:122:GLU:OE2	1.94	1.15
1:i:385:LEU:O	1:i:388:VAL:CG2	1.92	1.15
1:j:17:TYR:CB	1:j:180:VAL:HG11	1.76	1.15
1:j:128:VAL:HG12	1:k:390:SER:OG	1.46	1.15
1:k:416:GLU:HB3	1:k:419:LYS:HE2	1.21	1.15
1:a:17:TYR:CB	1:a:180:VAL:HG11	1.76	1.15
1:a:340:VAL:CG1	1:l:289:MET:HE3	1.73	1.15
1:i:289:MET:HE3	1:j:340:VAL:CG1	1.74	1.15
1:i:300:VAL:CB	1:i:327:ILE:HG21	1.77	1.15
1:j:68:ASN:HD22	1:j:358:LEU:HD22	1.04	1.15
1:i:446:VAL:CG2	1:j:452:LEU:CD2	2.23	1.15
1:k:80:MET:CE	1:k:122:GLU:OE2	1.94	1.15
1:k:412:GLN:O	1:k:414:ILE:HD12	0.99	1.15
1:k:442:LEU:HD21	1:k:476:ILE:HD13	1.16	1.15
1:l:80:MET:CE	1:l:122:GLU:OE2	1.94	1.15
1:l:412:GLN:O	1:l:414:ILE:HD12	0.99	1.15
1:a:311:LEU:HD12	1:l:319:PHE:CE2	1.64	1.15
1:a:412:GLN:O	1:a:414:ILE:HD12	0.99	1.15
1:b:17:TYR:CB	1:b:180:VAL:HG11	1.76	1.15
1:c:80:MET:CE	1:c:122:GLU:OE2	1.94	1.15
1:c:408:LEU:CB	1:c:414:ILE:HG12	1.78	1.15
1:e:300:VAL:CB	1:e:327:ILE:HG21	1.77	1.15
1:e:412:GLN:O	1:e:414:ILE:CD1	1.94	1.15
1:f:17:TYR:CB	1:f:180:VAL:HG11	1.76	1.15
1:f:300:VAL:CB	1:f:327:ILE:HG21	1.77	1.15
1:f:412:GLN:O	1:f:414:ILE:CD1	1.94	1.15
1:g:412:GLN:O	1:g:414:ILE:CD1	1.94	1.15
1:i:17:TYR:CB	1:i:180:VAL:HG11	1.76	1.15
1:j:442:LEU:HD21	1:j:476:ILE:HD13	1.16	1.15
1:a:449:TRP:CB	1:b:455:MET:HE1	1.77	1.14
1:b:60:ALA:HB2	1:c:274:GLY:HA3	1.18	1.14
1:c:416:GLU:HB3	1:c:419:LYS:HE2	1.21	1.14
1:d:412:GLN:O	1:d:414:ILE:CD1	1.94	1.14
1:d:412:GLN:O	1:d:414:ILE:HD12	0.99	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:132:GLU:OE2	1:f:259:LEU:HB2	1.43	1.14
1:f:128:VAL:HG12	1:g:390:SER:OG	1.46	1.14
1:g:17:TYR:CB	1:g:180:VAL:HG11	1.76	1.14
1:g:408:LEU:CB	1:g:414:ILE:HG12	1.77	1.14
1:h:132:GLU:OE2	1:i:259:LEU:HB2	1.43	1.14
1:h:412:GLN:O	1:h:414:ILE:CD1	1.94	1.14
1:i:293:SER:O	1:j:288:LYS:CB	1.94	1.14
1:i:408:LEU:CB	1:i:414:ILE:HG12	1.77	1.14
1:k:300:VAL:CB	1:k:327:ILE:HG21	1.77	1.14
1:a:128:VAL:HG12	1:b:390:SER:OG	1.48	1.14
1:a:466:ILE:HD11	1:l:481:ILE:HD11	1.23	1.14
1:d:293:SER:O	1:e:288:LYS:CB	1.95	1.14
1:e:408:LEU:CB	1:e:414:ILE:HG12	1.77	1.14
1:f:132:GLU:HG2	1:g:258:ARG:O	1.45	1.14
1:g:132:GLU:HG2	1:h:258:ARG:O	1.44	1.14
1:i:128:VAL:HG12	1:j:390:SER:OG	1.47	1.14
1:i:412:GLN:O	1:i:414:ILE:CD1	1.94	1.14
1:j:412:GLN:O	1:j:414:ILE:HD12	0.99	1.14
1:l:408:LEU:CB	1:l:414:ILE:HG12	1.77	1.14
1:a:132:GLU:HG2	1:b:258:ARG:O	1.45	1.14
1:a:289:MET:HE3	1:b:340:VAL:HG12	1.22	1.14
1:a:481:ILE:HD11	1:b:466:ILE:HD11	1.25	1.14
1:d:68:ASN:HD22	1:d:358:LEU:HD22	1.03	1.14
1:e:68:ASN:HD22	1:e:358:LEU:HD22	0.98	1.14
1:f:80:MET:CE	1:f:122:GLU:OE2	1.94	1.14
1:i:412:GLN:O	1:i:414:ILE:HD12	0.99	1.14
1:j:132:GLU:HG2	1:k:258:ARG:O	1.45	1.14
1:j:408:LEU:CB	1:j:414:ILE:HG12	1.77	1.14
1:j:412:GLN:O	1:j:414:ILE:CD1	1.94	1.14
1:l:300:VAL:CB	1:l:327:ILE:HG21	1.77	1.14
1:l:412:GLN:O	1:l:414:ILE:CD1	1.94	1.14
1:a:412:GLN:O	1:a:414:ILE:CD1	1.94	1.14
1:c:17:TYR:CB	1:c:180:VAL:HG11	1.76	1.14
1:c:132:GLU:HG2	1:d:258:ARG:O	1.44	1.14
1:d:17:TYR:CB	1:d:180:VAL:HG11	1.76	1.14
1:h:17:TYR:CB	1:h:180:VAL:HG11	1.76	1.14
1:a:408:LEU:CB	1:a:414:ILE:HG12	1.77	1.14
1:a:446:VAL:CG2	1:b:452:LEU:CD2	2.22	1.14
1:b:412:GLN:O	1:b:414:ILE:HD12	0.99	1.14
1:c:412:GLN:O	1:c:414:ILE:CD1	1.94	1.14
1:a:277:ARG:HD3	1:a:348:ILE:HG12	1.30	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:390:SER:OG	1:l:128:VAL:HG12	1.48	1.13
1:b:408:LEU:CB	1:b:414:ILE:HG12	1.77	1.13
1:c:449:TRP:CB	1:d:455:MET:HE1	1.78	1.13
1:e:60:ALA:HB2	1:f:274:GLY:HA3	1.19	1.13
1:g:300:VAL:CB	1:g:327:ILE:HG21	1.77	1.13
1:h:132:GLU:HG2	1:i:258:ARG:O	1.45	1.13
1:k:412:GLN:O	1:k:414:ILE:CD1	1.94	1.13
1:b:277:ARG:HD3	1:b:348:ILE:HG12	1.31	1.13
1:b:300:VAL:CB	1:b:327:ILE:HG21	1.77	1.13
1:b:446:VAL:CG2	1:c:452:LEU:CD2	2.22	1.13
1:c:300:VAL:CB	1:c:327:ILE:HG21	1.77	1.13
1:d:319:PHE:CZ	1:e:311:LEU:HD13	1.83	1.13
1:f:289:MET:HE3	1:g:340:VAL:HG12	1.23	1.13
1:g:446:VAL:CG2	1:h:452:LEU:CD2	2.20	1.13
1:i:442:LEU:HD21	1:i:476:ILE:HD13	1.16	1.13
1:j:162:ARG:HH12	1:k:259:LEU:HD21	1.04	1.13
1:k:481:ILE:HD11	1:l:466:ILE:HD11	1.23	1.13
1:a:80:MET:CE	1:a:122:GLU:OE2	1.94	1.13
1:b:78:PHE:HZ	1:b:130:LEU:HD11	0.96	1.13
1:c:128:VAL:HG12	1:d:390:SER:OG	1.48	1.13
1:c:412:GLN:O	1:c:414:ILE:HD12	0.99	1.13
1:e:17:TYR:CB	1:e:180:VAL:HG11	1.76	1.13
1:i:359:ASN:OD1	1:j:380:GLU:CD	1.90	1.13
1:k:408:LEU:CB	1:k:414:ILE:HG12	1.77	1.13
1:a:452:LEU:CD2	1:l:446:VAL:CG2	2.22	1.13
1:d:132:GLU:HG2	1:e:258:ARG:O	1.45	1.13
1:d:300:VAL:CB	1:d:327:ILE:HG21	1.77	1.13
1:h:162:ARG:HH12	1:i:259:LEU:HD21	1.03	1.13
1:h:408:LEU:CB	1:h:414:ILE:HG12	1.77	1.13
1:j:68:ASN:ND2	1:j:358:LEU:HD22	1.64	1.13
1:k:449:TRP:CB	1:l:455:MET:HE1	1.79	1.13
1:l:78:PHE:HZ	1:l:130:LEU:HD11	0.96	1.13
1:a:481:ILE:HD11	1:b:466:ILE:CD1	1.76	1.12
1:b:412:GLN:O	1:b:414:ILE:CD1	1.94	1.12
1:d:416:GLU:HB3	1:d:419:LYS:HE2	1.21	1.12
1:d:449:TRP:CB	1:e:455:MET:HE1	1.79	1.13
1:f:277:ARG:HD3	1:f:348:ILE:HG12	1.31	1.13
1:f:293:SER:O	1:g:288:LYS:CB	1.95	1.12
1:f:319:PHE:CZ	1:g:311:LEU:HD13	1.82	1.12
1:f:359:ASN:OD1	1:g:380:GLU:CD	1.91	1.12
1:f:416:GLU:HB3	1:f:419:LYS:HE2	1.21	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:277:ARG:HD3	1:g:348:ILE:HG12	1.31	1.12
1:i:162:ARG:HH12	1:j:259:LEU:HD21	1.02	1.13
1:j:300:VAL:CB	1:j:327:ILE:HG21	1.77	1.12
1:j:319:PHE:CZ	1:k:311:LEU:HD13	1.83	1.13
1:h:277:ARG:HD3	1:h:348:ILE:HG12	1.31	1.12
1:i:449:TRP:CB	1:j:455:MET:HE1	1.78	1.12
1:a:455:MET:HE1	1:l:449:TRP:CB	1.79	1.12
1:c:277:ARG:CD	1:c:348:ILE:HG12	1.79	1.12
1:c:359:ASN:CG	1:d:380:GLU:OE1	1.92	1.12
1:d:289:MET:HE3	1:e:340:VAL:HG12	1.23	1.12
1:d:408:LEU:CB	1:d:414:ILE:HG12	1.78	1.12
1:e:320:VAL:HG11	1:f:297:ILE:HG21	1.31	1.12
1:e:354:PHE:O	1:e:357:MET:CE	1.98	1.12
1:f:408:LEU:CB	1:f:414:ILE:HG12	1.77	1.12
1:f:449:TRP:CB	1:g:455:MET:HE1	1.80	1.12
1:g:319:PHE:CE2	1:h:311:LEU:HD12	1.65	1.12
1:i:397:GLN:HG2	1:i:426:ILE:CG2	1.80	1.12
1:j:368:ARG:O	1:j:370:THR:HB	1.49	1.12
1:l:277:ARG:HD3	1:l:348:ILE:HG12	1.30	1.12
1:a:259:LEU:HD21	1:l:162:ARG:NH1	1.64	1.12
1:b:15:SER:HB2	1:b:216:HIS:CE1	1.85	1.12
1:c:277:ARG:HD3	1:c:348:ILE:HG12	1.30	1.12
1:d:78:PHE:HZ	1:d:130:LEU:HD11	0.96	1.12
1:e:319:PHE:CE2	1:f:311:LEU:HD12	1.67	1.12
1:f:359:ASN:CG	1:g:380:GLU:OE1	1.92	1.12
1:h:162:ARG:NH1	1:i:259:LEU:HD21	1.64	1.12
1:h:368:ARG:O	1:h:370:THR:HB	1.49	1.12
1:h:397:GLN:HG2	1:h:426:ILE:CG2	1.80	1.12
1:j:162:ARG:NH1	1:k:259:LEU:HD21	1.65	1.12
1:j:397:GLN:HG2	1:j:426:ILE:CG2	1.79	1.12
1:k:446:VAL:CG2	1:l:452:LEU:CD2	2.20	1.12
1:l:442:LEU:HD21	1:l:476:ILE:HD13	1.16	1.12
1:a:15:SER:HB2	1:a:216:HIS:CE1	1.85	1.12
1:e:416:GLU:HB3	1:e:419:LYS:HE2	1.21	1.12
1:g:162:ARG:HH12	1:h:259:LEU:HD21	1.04	1.12
1:j:319:PHE:CE2	1:k:311:LEU:HD12	1.63	1.12
1:k:277:ARG:HD3	1:k:348:ILE:CG1	1.78	1.12
1:c:60:ALA:HB2	1:d:274:GLY:HA3	1.17	1.12
1:c:319:PHE:CE2	1:d:311:LEU:HD12	1.63	1.12
1:c:397:GLN:HG2	1:c:426:ILE:CG2	1.80	1.12
1:d:397:GLN:HG2	1:d:426:ILE:CG2	1.80	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:277:ARG:CD	1:f:348:ILE:HG12	1.79	1.12
1:g:449:TRP:CB	1:h:455:MET:HE1	1.79	1.12
1:h:449:TRP:CB	1:i:455:MET:HE1	1.79	1.12
1:i:162:ARG:NH1	1:j:259:LEU:HD21	1.64	1.12
1:i:255:ARG:H	1:i:395:GLU:HG3	1.14	1.12
1:i:277:ARG:HD3	1:i:348:ILE:HG12	1.31	1.12
1:i:359:ASN:CG	1:j:380:GLU:OE1	1.92	1.12
1:i:481:ILE:HD11	1:j:466:ILE:HD11	1.24	1.12
1:k:319:PHE:CE2	1:l:311:LEU:HD12	1.65	1.12
1:k:397:GLN:HG2	1:k:426:ILE:CG2	1.79	1.12
1:a:319:PHE:CZ	1:b:311:LEU:HD13	1.85	1.11
1:c:15:SER:HB2	1:c:216:HIS:CE1	1.85	1.11
1:d:319:PHE:CE2	1:e:311:LEU:HD12	1.60	1.11
1:g:15:SER:HB2	1:g:216:HIS:CE1	1.85	1.11
1:i:277:ARG:HD3	1:i:348:ILE:CG1	1.79	1.11
1:k:277:ARG:CD	1:k:348:ILE:HG12	1.79	1.11
1:l:15:SER:HB2	1:l:216:HIS:CE1	1.85	1.11
1:a:300:VAL:CB	1:a:327:ILE:HG21	1.77	1.11
1:b:17:TYR:HE1	1:b:167:VAL:CG2	1.64	1.11
1:b:277:ARG:CD	1:b:348:ILE:HG12	1.79	1.11
1:b:397:GLN:HG2	1:b:426:ILE:CG2	1.80	1.11
1:e:162:ARG:NH1	1:f:259:LEU:HD21	1.65	1.11
1:h:15:SER:HB2	1:h:216:HIS:CE1	1.84	1.11
1:i:17:TYR:HE1	1:i:167:VAL:CG2	1.64	1.11
1:i:319:PHE:CZ	1:j:311:LEU:HD13	1.84	1.11
1:j:277:ARG:HD3	1:j:348:ILE:CG1	1.80	1.11
1:l:277:ARG:HD3	1:l:348:ILE:CG1	1.79	1.11
1:l:277:ARG:CD	1:l:348:ILE:HG12	1.79	1.11
1:a:17:TYR:HE1	1:a:167:VAL:CG2	1.64	1.11
1:a:277:ARG:CD	1:a:348:ILE:HG12	1.79	1.11
1:b:128:VAL:HG12	1:c:390:SER:OG	1.48	1.11
1:c:446:VAL:CG2	1:d:452:LEU:CD2	2.22	1.11
1:e:442:LEU:HD21	1:e:476:ILE:HD13	1.16	1.11
1:f:15:SER:HB2	1:f:216:HIS:CE1	1.85	1.11
1:g:289:MET:HE3	1:h:340:VAL:HG12	1.21	1.11
1:h:319:PHE:CZ	1:i:311:LEU:HD13	1.85	1.11
1:h:442:LEU:HD21	1:h:476:ILE:HD13	1.16	1.11
1:k:162:ARG:HH12	1:l:259:LEU:HD21	1.04	1.11
1:k:277:ARG:HD3	1:k:348:ILE:HG12	1.30	1.11
1:k:354:PHE:O	1:k:357:MET:CE	1.98	1.11
1:k:481:ILE:HD12	1:l:466:ILE:HG12	1.29	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:162:ARG:HD2	1:d:260:ASP:HB2	1.33	1.11
1:d:277:ARG:CD	1:d:348:ILE:HG12	1.79	1.11
1:e:277:ARG:HD3	1:e:348:ILE:HG12	1.30	1.11
1:e:449:TRP:CB	1:f:455:MET:HE1	1.80	1.11
1:g:162:ARG:NH1	1:h:259:LEU:HD21	1.66	1.11
1:g:397:GLN:HG2	1:g:426:ILE:CG2	1.80	1.11
1:h:17:TYR:HE1	1:h:167:VAL:CG2	1.64	1.11
1:h:68:ASN:HD22	1:h:358:LEU:HD22	0.95	1.11
1:i:15:SER:HB2	1:i:216:HIS:CE1	1.85	1.11
1:j:17:TYR:HE1	1:j:167:VAL:CG2	1.64	1.11
1:j:449:TRP:CB	1:k:455:MET:HE1	1.80	1.11
1:l:397:GLN:HG2	1:l:426:ILE:CG2	1.80	1.11
1:a:311:LEU:HD13	1:l:319:PHE:CZ	1.84	1.11
1:d:15:SER:HB2	1:d:216:HIS:CE1	1.85	1.11
1:d:68:ASN:ND2	1:d:358:LEU:HD22	1.63	1.11
1:e:17:TYR:HE1	1:e:167:VAL:CG2	1.63	1.11
1:e:397:GLN:HG2	1:e:426:ILE:CG2	1.80	1.11
1:g:128:VAL:HG12	1:h:390:SER:OG	1.49	1.11
1:h:277:ARG:HD3	1:h:348:ILE:CG1	1.80	1.11
1:h:319:PHE:CE2	1:i:311:LEU:HD12	1.66	1.11
1:k:315:GLN:N	1:k:318:ASP:OD2	1.84	1.11
1:a:297:ILE:HG21	1:l:320:VAL:HG11	1.33	1.10
1:a:397:GLN:HG2	1:a:426:ILE:CG2	1.80	1.10
1:b:319:PHE:CZ	1:c:311:LEU:HD13	1.85	1.10
1:c:162:ARG:NH1	1:d:259:LEU:HD21	1.64	1.10
1:d:162:ARG:HH12	1:e:259:LEU:HD21	1.04	1.10
1:d:442:LEU:HD21	1:d:476:ILE:HD13	1.16	1.10
1:e:15:SER:HB2	1:e:216:HIS:CE1	1.84	1.10
1:f:277:ARG:HD3	1:f:348:ILE:CG1	1.79	1.10
1:f:368:ARG:O	1:f:370:THR:HB	1.52	1.10
1:g:68:ASN:HD22	1:g:358:LEU:HD22	1.06	1.10
1:g:277:ARG:CD	1:g:348:ILE:HG12	1.80	1.10
1:g:368:ARG:O	1:g:370:THR:HB	1.49	1.10
1:h:315:GLN:N	1:h:318:ASP:OD2	1.84	1.10
1:i:137:LEU:HD13	1:i:256:MET:SD	1.91	1.10
1:j:277:ARG:CD	1:j:348:ILE:HG12	1.80	1.10
1:k:137:LEU:HD13	1:k:256:MET:SD	1.92	1.10
1:b:162:ARG:NH1	1:c:259:LEU:HD21	1.64	1.10
1:c:277:ARG:HD3	1:c:348:ILE:CG1	1.79	1.10
1:c:319:PHE:CZ	1:d:311:LEU:HD13	1.84	1.10
1:e:277:ARG:CD	1:e:348:ILE:HG12	1.79	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:17:TYR:HE1	1:f:167:VAL:CG2	1.64	1.10
1:f:60:ALA:HB2	1:g:274:GLY:HA3	1.17	1.10
1:f:162:ARG:NH1	1:g:259:LEU:HD21	1.64	1.10
1:f:315:GLN:N	1:f:318:ASP:OD2	1.84	1.10
1:f:397:GLN:HG2	1:f:426:ILE:HG23	1.11	1.10
1:g:277:ARG:HD3	1:g:348:ILE:CG1	1.80	1.10
1:h:277:ARG:CD	1:h:348:ILE:HG12	1.80	1.10
1:i:277:ARG:CD	1:i:348:ILE:HG12	1.79	1.10
1:j:78:PHE:HZ	1:j:130:LEU:HD11	0.96	1.10
1:k:15:SER:HB2	1:k:216:HIS:CE1	1.84	1.10
1:l:17:TYR:HE1	1:l:167:VAL:CG2	1.64	1.10
1:a:137:LEU:HD13	1:a:256:MET:SD	1.92	1.10
1:a:259:LEU:HD21	1:l:162:ARG:HH12	1.03	1.10
1:a:277:ARG:HD3	1:a:348:ILE:CG1	1.79	1.10
1:a:315:GLN:N	1:a:318:ASP:OD2	1.84	1.10
1:b:137:LEU:HD13	1:b:256:MET:SD	1.92	1.10
1:b:277:ARG:HD3	1:b:348:ILE:CG1	1.80	1.10
1:b:449:TRP:CB	1:c:455:MET:HE1	1.80	1.10
1:e:170:ARG:HD3	1:e:177:LEU:CD1	1.82	1.10
1:g:170:ARG:HD3	1:g:177:LEU:CD1	1.82	1.10
1:i:292:ILE:HD13	1:i:335:GLN:HE21	1.16	1.10
1:j:15:SER:HB2	1:j:216:HIS:CE1	1.85	1.10
1:j:481:ILE:HD11	1:k:466:ILE:CD1	1.76	1.10
1:k:128:VAL:HG12	1:l:390:SER:OG	1.49	1.10
1:l:126:TYR:CE1	1:l:158:MET:HB2	1.87	1.10
1:b:126:TYR:CE1	1:b:158:MET:HB2	1.87	1.10
1:b:319:PHE:CE2	1:c:311:LEU:HD12	1.65	1.10
1:b:320:VAL:HG11	1:c:297:ILE:HG21	1.33	1.10
1:c:17:TYR:HE1	1:c:167:VAL:CG2	1.64	1.10
1:c:289:MET:HE3	1:d:340:VAL:HG12	1.23	1.10
1:d:368:ARG:O	1:d:370:THR:HB	1.49	1.10
1:e:277:ARG:HD3	1:e:348:ILE:CG1	1.79	1.10
1:g:397:GLN:HG2	1:g:426:ILE:HG23	1.11	1.10
1:g:481:ILE:HD11	1:h:466:ILE:HD11	1.23	1.10
1:h:292:ILE:HD13	1:h:335:GLN:HE21	1.16	1.10
1:j:170:ARG:HD3	1:j:177:LEU:CD1	1.82	1.10
1:l:170:ARG:HD3	1:l:177:LEU:CD1	1.82	1.10
1:b:162:ARG:HD2	1:c:260:ASP:HB2	1.34	1.10
1:b:170:ARG:HD3	1:b:177:LEU:CD1	1.82	1.10
1:d:17:TYR:HE1	1:d:167:VAL:CG2	1.64	1.10
1:d:137:LEU:HD13	1:d:256:MET:SD	1.92	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:126:TYR:CE1	1:e:158:MET:HB2	1.87	1.10
1:e:162:ARG:HD2	1:f:260:ASP:HB2	1.34	1.10
1:f:277:ARG:HD3	1:f:348:ILE:CD1	1.82	1.10
1:f:442:LEU:HD21	1:f:476:ILE:HD13	1.16	1.10
1:h:354:PHE:O	1:h:357:MET:CE	1.99	1.10
1:i:170:ARG:HD3	1:i:177:LEU:CD1	1.82	1.10
1:i:481:ILE:HD12	1:j:466:ILE:HG12	1.29	1.10
1:j:126:TYR:CE1	1:j:158:MET:HB2	1.87	1.10
1:j:292:ILE:HD13	1:j:335:GLN:HE21	1.16	1.10
1:j:315:GLN:N	1:j:318:ASP:OD2	1.84	1.10
1:j:323:ARG:CG	1:j:324:PRO:HD2	1.82	1.10
1:j:481:ILE:HD11	1:k:466:ILE:HD11	1.23	1.10
1:a:323:ARG:CG	1:a:324:PRO:HD2	1.82	1.09
1:d:170:ARG:HD3	1:d:177:LEU:CD1	1.82	1.09
1:d:277:ARG:HD3	1:d:348:ILE:CG1	1.79	1.09
1:e:315:GLN:N	1:e:318:ASP:OD2	1.84	1.09
1:i:315:GLN:N	1:i:318:ASP:OD2	1.84	1.09
1:j:34:CYS:SG	1:j:270:GLU:CG	2.41	1.09
1:k:17:TYR:HE1	1:k:167:VAL:CG2	1.64	1.09
1:k:126:TYR:CE1	1:k:158:MET:HB2	1.87	1.09
1:k:162:ARG:NH1	1:l:259:LEU:HD21	1.65	1.09
1:l:137:LEU:HD13	1:l:256:MET:SD	1.91	1.09
1:a:126:TYR:CE1	1:a:158:MET:HB2	1.87	1.09
1:a:162:ARG:NH1	1:b:259:LEU:HD21	1.65	1.09
1:a:162:ARG:HH12	1:b:259:LEU:HD21	1.04	1.09
1:b:481:ILE:HD12	1:c:466:ILE:HG12	1.30	1.09
1:c:170:ARG:HD3	1:c:177:LEU:CD1	1.82	1.09
1:c:315:GLN:N	1:c:318:ASP:OD2	1.84	1.09
1:c:323:ARG:CG	1:c:324:PRO:HD2	1.82	1.09
1:d:277:ARG:HD3	1:d:348:ILE:CD1	1.82	1.09
1:e:137:LEU:HD13	1:e:256:MET:SD	1.92	1.09
1:e:162:ARG:HH12	1:f:259:LEU:HD21	1.03	1.09
1:e:449:TRP:C	1:f:455:MET:HE1	1.77	1.09
1:f:137:LEU:HD13	1:f:256:MET:SD	1.92	1.09
1:f:397:GLN:HB3	1:f:426:ILE:HG12	1.33	1.09
1:f:481:ILE:HD12	1:g:466:ILE:HG12	1.30	1.09
1:g:137:LEU:HD13	1:g:256:MET:SD	1.91	1.09
1:h:137:LEU:HD13	1:h:256:MET:SD	1.91	1.09
1:h:320:VAL:HG11	1:i:297:ILE:HG21	1.32	1.09
1:h:397:GLN:HG2	1:h:426:ILE:HG23	1.11	1.09
1:i:126:TYR:CE1	1:i:158:MET:HB2	1.87	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:244:TYR:CE2	1:i:250:PRO:HD3	1.88	1.09
1:i:277:ARG:HD3	1:i:348:ILE:CD1	1.83	1.09
1:i:397:GLN:HB3	1:i:426:ILE:HG12	1.33	1.09
1:k:34:CYS:SG	1:k:270:GLU:CG	2.41	1.09
1:k:68:ASN:HD22	1:k:358:LEU:HD22	0.98	1.09
1:l:277:ARG:HD3	1:l:348:ILE:CD1	1.82	1.09
1:b:289:MET:HE3	1:c:340:VAL:HG12	1.22	1.09
1:c:137:LEU:HD13	1:c:256:MET:SD	1.92	1.09
1:d:323:ARG:CG	1:d:324:PRO:HD2	1.82	1.09
1:e:397:GLN:HG2	1:e:426:ILE:HG23	1.11	1.09
1:e:449:TRP:C	1:f:455:MET:CE	2.25	1.09
1:f:162:ARG:HH12	1:g:259:LEU:HD21	1.03	1.09
1:f:244:TYR:CE2	1:f:250:PRO:HD3	1.88	1.09
1:f:397:GLN:HG2	1:f:426:ILE:CG2	1.80	1.09
1:g:68:ASN:ND2	1:g:358:LEU:HD22	1.66	1.09
1:g:78:PHE:HZ	1:g:130:LEU:HD11	0.96	1.09
1:g:315:GLN:N	1:g:318:ASP:OD2	1.84	1.09
1:g:319:PHE:CZ	1:h:311:LEU:HD13	1.86	1.09
1:g:320:VAL:HG11	1:h:297:ILE:HG21	1.32	1.09
1:g:481:ILE:HD11	1:h:466:ILE:CG1	1.80	1.09
1:h:34:CYS:SG	1:h:270:GLU:CG	2.41	1.09
1:h:128:VAL:HG12	1:i:390:SER:OG	1.49	1.09
1:i:34:CYS:SG	1:i:270:GLU:CG	2.41	1.09
1:j:277:ARG:HD3	1:j:348:ILE:HG12	1.31	1.09
1:k:277:ARG:HD3	1:k:348:ILE:CD1	1.82	1.09
1:k:320:VAL:HG11	1:l:297:ILE:HG21	1.32	1.09
1:l:244:TYR:CE2	1:l:250:PRO:HD3	1.88	1.09
1:l:323:ARG:CG	1:l:324:PRO:HD2	1.82	1.09
1:b:315:GLN:N	1:b:318:ASP:OD2	1.84	1.09
1:c:244:TYR:CE2	1:c:250:PRO:HD3	1.88	1.09
1:c:320:VAL:HG11	1:d:297:ILE:HG21	1.34	1.09
1:d:126:TYR:CE1	1:d:158:MET:HB2	1.87	1.09
1:d:315:GLN:N	1:d:318:ASP:OD2	1.84	1.09
1:f:383:ASP:O	1:f:386:GLY:N	1.86	1.09
1:g:17:TYR:HE1	1:g:167:VAL:CG2	1.64	1.09
1:g:277:ARG:HD3	1:g:348:ILE:CD1	1.83	1.09
1:g:323:ARG:CG	1:g:324:PRO:HD2	1.82	1.09
1:g:383:ASP:O	1:g:386:GLY:N	1.86	1.09
1:h:170:ARG:HD3	1:h:177:LEU:CD1	1.82	1.09
1:h:244:TYR:CE2	1:h:250:PRO:HD3	1.88	1.09
1:h:255:ARG:H	1:h:395:GLU:HG3	1.14	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:78:PHE:HZ	1:i:130:LEU:HD11	0.96	1.09
1:i:397:GLN:HG2	1:i:426:ILE:HG23	1.11	1.09
1:j:277:ARG:HD3	1:j:348:ILE:CD1	1.82	1.09
1:j:481:ILE:HD12	1:k:466:ILE:HG12	1.31	1.09
1:k:170:ARG:HD3	1:k:177:LEU:CD1	1.82	1.09
1:l:34:CYS:SG	1:l:270:GLU:CG	2.40	1.09
1:l:255:ARG:H	1:l:395:GLU:HG3	1.14	1.09
1:b:128:VAL:HG12	1:c:390:SER:HG	0.96	1.09
1:b:277:ARG:HD3	1:b:348:ILE:CD1	1.83	1.09
1:d:60:ALA:HB2	1:e:274:GLY:HA3	1.17	1.09
1:d:97:LEU:HA	1:d:99:ASP:O	1.53	1.09
1:d:446:VAL:CG2	1:e:452:LEU:CD2	2.25	1.09
1:e:244:TYR:CE2	1:e:250:PRO:HD3	1.88	1.09
1:e:255:ARG:N	1:e:395:GLU:HG3	1.68	1.09
1:e:368:ARG:O	1:e:370:THR:HB	1.52	1.09
1:g:255:ARG:N	1:g:395:GLU:HG3	1.68	1.09
1:g:292:ILE:HD13	1:g:335:GLN:HE21	1.16	1.09
1:g:449:TRP:C	1:h:455:MET:HE1	1.78	1.09
1:h:449:TRP:C	1:i:455:MET:HE1	1.78	1.09
1:h:481:ILE:HD12	1:i:466:ILE:HG12	1.30	1.09
1:i:97:LEU:HA	1:i:99:ASP:O	1.53	1.09
1:i:255:ARG:N	1:i:395:GLU:HG3	1.68	1.09
1:i:323:ARG:CG	1:i:324:PRO:HD2	1.82	1.09
1:k:244:TYR:CE2	1:k:250:PRO:HD3	1.87	1.09
1:k:255:ARG:H	1:k:395:GLU:HG3	1.14	1.09
1:l:315:GLN:N	1:l:318:ASP:OD2	1.84	1.09
1:a:466:ILE:CG1	1:l:481:ILE:HD11	1.80	1.08
1:b:162:ARG:HH12	1:c:259:LEU:HD21	1.03	1.08
1:c:255:ARG:N	1:c:395:GLU:HG3	1.68	1.08
1:c:442:LEU:HD21	1:c:476:ILE:HD13	1.16	1.08
1:e:78:PHE:HZ	1:e:130:LEU:HD11	0.96	1.08
1:e:162:ARG:HD2	1:f:260:ASP:CB	1.83	1.08
1:e:319:PHE:CZ	1:f:311:LEU:HD13	1.87	1.08
1:f:255:ARG:H	1:f:395:GLU:HG3	1.14	1.08
1:g:126:TYR:CE1	1:g:158:MET:HB2	1.87	1.08
1:g:397:GLN:HB3	1:g:426:ILE:HG12	1.33	1.08
1:g:442:LEU:HD21	1:g:476:ILE:HD13	1.16	1.08
1:j:137:LEU:HD13	1:j:256:MET:SD	1.92	1.08
1:j:244:TYR:CE2	1:j:250:PRO:HD3	1.88	1.08
1:k:255:ARG:N	1:k:395:GLU:HG3	1.68	1.08
1:k:292:ILE:HD13	1:k:335:GLN:HE21	1.16	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:323:ARG:CG	1:k:324:PRO:HD2	1.82	1.08
1:a:255:ARG:N	1:a:395:GLU:HG3	1.68	1.08
1:b:354:PHE:O	1:b:357:MET:CE	1.99	1.08
1:e:289:MET:HE3	1:f:340:VAL:HG12	1.21	1.08
1:e:331:GLN:HE22	1:f:335:GLN:CB	1.66	1.08
1:f:126:TYR:CE1	1:f:158:MET:HB2	1.87	1.08
1:f:170:ARG:HD3	1:f:177:LEU:CD1	1.82	1.08
1:f:323:ARG:CG	1:f:324:PRO:HD2	1.83	1.08
1:h:162:ARG:HD2	1:i:260:ASP:HB2	1.34	1.08
1:h:162:ARG:HD2	1:i:260:ASP:CB	1.83	1.08
1:h:383:ASP:O	1:h:386:GLY:N	1.86	1.08
1:a:170:ARG:HD3	1:a:177:LEU:CD1	1.82	1.08
1:a:244:TYR:CE2	1:a:250:PRO:HD3	1.88	1.08
1:a:277:ARG:HD3	1:a:348:ILE:CD1	1.82	1.08
1:b:68:ASN:HD22	1:b:358:LEU:HD22	0.96	1.08
1:c:34:CYS:SG	1:c:270:GLU:CG	2.41	1.08
1:c:277:ARG:HD3	1:c:348:ILE:CD1	1.82	1.08
1:d:397:GLN:HG2	1:d:426:ILE:HG23	1.11	1.08
1:d:481:ILE:HD11	1:e:466:ILE:HD11	1.25	1.08
1:f:97:LEU:HA	1:f:99:ASP:O	1.53	1.08
1:h:126:TYR:CE1	1:h:158:MET:HB2	1.87	1.08
1:l:255:ARG:N	1:l:395:GLU:HG3	1.68	1.08
1:a:34:CYS:SG	1:a:270:GLU:CG	2.41	1.08
1:a:442:LEU:HD21	1:a:476:ILE:HD13	1.16	1.08
1:b:34:CYS:SG	1:b:270:GLU:CG	2.41	1.08
1:b:97:LEU:HA	1:b:99:ASP:O	1.53	1.08
1:b:244:TYR:CE2	1:b:250:PRO:HD3	1.88	1.08
1:b:244:TYR:CZ	1:b:250:PRO:HD3	1.89	1.08
1:b:323:ARG:CG	1:b:324:PRO:HD2	1.82	1.08
1:c:244:TYR:CZ	1:c:250:PRO:HD3	1.89	1.08
1:e:128:VAL:HG12	1:f:390:SER:OG	1.50	1.08
1:e:383:ASP:O	1:e:386:GLY:N	1.86	1.08
1:e:481:ILE:HD12	1:f:466:ILE:HG12	1.30	1.08
1:h:97:LEU:HA	1:h:99:ASP:O	1.53	1.08
1:j:255:ARG:N	1:j:395:GLU:HG3	1.68	1.08
1:j:320:VAL:HG12	1:k:297:ILE:HG22	1.31	1.08
1:k:78:PHE:HZ	1:k:130:LEU:HD11	0.96	1.08
1:k:97:LEU:HA	1:k:99:ASP:O	1.53	1.08
1:k:319:PHE:CZ	1:l:311:LEU:HD13	1.86	1.08
1:a:244:TYR:CZ	1:a:250:PRO:HD3	1.89	1.08
1:b:249:CYS:SG	1:b:407:GLN:HG2	1.94	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:126:TYR:CE1	1:c:158:MET:HB2	1.87	1.08
1:d:34:CYS:SG	1:d:270:GLU:CG	2.41	1.08
1:d:255:ARG:N	1:d:395:GLU:HG3	1.68	1.08
1:d:481:ILE:HD12	1:e:466:ILE:HG12	1.30	1.08
1:e:277:ARG:HD3	1:e:348:ILE:CD1	1.82	1.08
1:f:17:TYR:CE1	1:f:167:VAL:HG23	1.89	1.08
1:f:78:PHE:HZ	1:f:130:LEU:HD11	0.96	1.08
1:f:162:ARG:HD2	1:g:260:ASP:HB2	1.35	1.08
1:g:34:CYS:SG	1:g:270:GLU:CG	2.41	1.08
1:g:244:TYR:CE2	1:g:250:PRO:HD3	1.88	1.08
1:h:277:ARG:HD3	1:h:348:ILE:CD1	1.83	1.08
1:h:323:ARG:CG	1:h:324:PRO:HD2	1.82	1.08
1:i:162:ARG:HD2	1:j:260:ASP:HB2	1.34	1.08
1:j:78:PHE:CZ	1:j:130:LEU:HD11	1.88	1.08
1:j:244:TYR:CZ	1:j:250:PRO:HD3	1.89	1.08
1:j:255:ARG:H	1:j:395:GLU:HG3	1.14	1.08
1:k:320:VAL:HG12	1:l:297:ILE:HG22	1.29	1.08
1:l:244:TYR:CZ	1:l:250:PRO:HD3	1.89	1.08
1:b:162:ARG:HD2	1:c:260:ASP:CB	1.84	1.07
1:c:78:PHE:HZ	1:c:130:LEU:HD11	0.96	1.07
1:c:162:ARG:HD2	1:d:260:ASP:CB	1.83	1.07
1:c:320:VAL:HG12	1:d:297:ILE:HG22	1.32	1.07
1:e:244:TYR:CZ	1:e:250:PRO:HD3	1.89	1.07
1:e:323:ARG:CG	1:e:324:PRO:HD2	1.82	1.07
1:f:244:TYR:CZ	1:f:250:PRO:HD3	1.89	1.07
1:f:255:ARG:N	1:f:395:GLU:HG3	1.68	1.07
1:f:446:VAL:CG2	1:g:452:LEU:CD2	2.26	1.07
1:g:255:ARG:H	1:g:395:GLU:HG3	1.14	1.07
1:h:244:TYR:CZ	1:h:250:PRO:HD3	1.89	1.07
1:h:249:CYS:SG	1:h:407:GLN:HG2	1.94	1.07
1:h:449:TRP:C	1:i:455:MET:CE	2.26	1.07
1:i:128:VAL:HG12	1:j:390:SER:HG	1.17	1.07
1:i:320:VAL:HG12	1:j:297:ILE:HG22	1.32	1.07
1:k:162:ARG:HD2	1:l:260:ASP:CB	1.83	1.07
1:l:17:TYR:CE1	1:l:167:VAL:HG23	1.90	1.07
1:a:260:ASP:HB2	1:l:162:ARG:HD2	1.34	1.07
1:a:371:ALA:HA	1:a:374:ILE:HB	1.24	1.07
1:a:383:ASP:O	1:a:386:GLY:N	1.86	1.07
1:a:481:ILE:HD11	1:b:466:ILE:CG1	1.81	1.07
1:b:17:TYR:CE1	1:b:167:VAL:HG23	1.90	1.07
1:c:397:GLN:HG2	1:c:426:ILE:HG23	1.11	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:162:ARG:HD2	1:e:260:ASP:HB2	1.36	1.07
1:d:162:ARG:NH1	1:e:259:LEU:HD21	1.65	1.07
1:d:244:TYR:CE2	1:d:250:PRO:HD3	1.87	1.07
1:d:244:TYR:CZ	1:d:250:PRO:HD3	1.89	1.07
1:e:249:CYS:SG	1:e:407:GLN:HG2	1.94	1.07
1:g:162:ARG:HD2	1:h:260:ASP:CB	1.85	1.07
1:g:162:ARG:HD2	1:h:260:ASP:HB2	1.35	1.07
1:g:481:ILE:HD12	1:h:466:ILE:HG12	1.29	1.07
1:j:397:GLN:HG2	1:j:426:ILE:HG23	1.11	1.07
1:k:249:CYS:SG	1:k:407:GLN:HG2	1.94	1.07
1:k:449:TRP:C	1:l:455:MET:CE	2.26	1.07
1:a:78:PHE:HZ	1:a:130:LEU:HD11	0.96	1.07
1:a:357:MET:CE	1:a:381:LEU:CD1	1.91	1.07
1:c:162:ARG:HH12	1:d:259:LEU:HD21	1.02	1.07
1:c:368:ARG:O	1:c:370:THR:HB	1.55	1.07
1:e:17:TYR:CE1	1:e:167:VAL:HG23	1.89	1.07
1:h:55:GLN:OE1	1:h:55:GLN:N	1.88	1.07
1:i:249:CYS:SG	1:i:407:GLN:HG2	1.94	1.07
1:j:55:GLN:OE1	1:j:55:GLN:N	1.88	1.07
1:k:162:ARG:HH12	1:l:259:LEU:CD2	1.67	1.07
1:k:244:TYR:CZ	1:k:250:PRO:HD3	1.89	1.07
1:l:249:CYS:SG	1:l:407:GLN:HG2	1.94	1.07
1:l:292:ILE:HD13	1:l:335:GLN:HE21	1.16	1.07
1:a:97:LEU:HA	1:a:99:ASP:O	1.53	1.07
1:a:259:LEU:CD2	1:l:162:ARG:HH12	1.67	1.07
1:a:466:ILE:HG12	1:l:481:ILE:HD12	1.29	1.07
1:b:78:PHE:CZ	1:b:130:LEU:HD11	1.88	1.07
1:b:383:ASP:O	1:b:386:GLY:N	1.86	1.07
1:e:34:CYS:SG	1:e:270:GLU:CG	2.41	1.07
1:f:292:ILE:HD13	1:f:335:GLN:HE21	1.16	1.07
1:g:17:TYR:CE1	1:g:167:VAL:HG23	1.90	1.07
1:g:331:GLN:HE22	1:h:335:GLN:CB	1.68	1.07
1:g:449:TRP:C	1:h:455:MET:CE	2.26	1.07
1:h:397:GLN:HB3	1:h:426:ILE:HG12	1.33	1.07
1:i:244:TYR:CE2	1:i:250:PRO:CD	2.38	1.07
1:i:383:ASP:O	1:i:386:GLY:N	1.86	1.07
1:j:17:TYR:CE1	1:j:167:VAL:HG23	1.89	1.07
1:l:78:PHE:CZ	1:l:130:LEU:HD11	1.88	1.07
1:l:97:LEU:HA	1:l:99:ASP:O	1.53	1.07
1:l:383:ASP:O	1:l:386:GLY:N	1.86	1.07
1:a:80:MET:CG	1:a:127:ARG:NH2	2.18	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:255:ARG:N	1:b:395:GLU:HG3	1.68	1.07
1:b:449:TRP:C	1:c:455:MET:CE	2.28	1.07
1:c:359:ASN:ND2	1:d:380:GLU:CB	2.18	1.07
1:c:449:TRP:C	1:d:455:MET:CE	2.28	1.07
1:f:17:TYR:HE1	1:f:167:VAL:HG23	1.19	1.07
1:f:34:CYS:SG	1:f:270:GLU:CG	2.41	1.07
1:f:80:MET:CG	1:f:127:ARG:NH2	2.18	1.07
1:f:320:VAL:HG11	1:g:297:ILE:HG21	1.35	1.07
1:g:55:GLN:OE1	1:g:55:GLN:N	1.88	1.07
1:g:244:TYR:CE2	1:g:250:PRO:CD	2.38	1.07
1:i:162:ARG:HH12	1:j:259:LEU:CD2	1.67	1.07
1:j:320:VAL:HG11	1:k:297:ILE:HG21	1.34	1.07
1:j:383:ASP:O	1:j:386:GLY:N	1.86	1.07
1:k:383:ASP:O	1:k:386:GLY:N	1.86	1.07
1:k:449:TRP:C	1:l:455:MET:HE1	1.78	1.07
1:a:292:ILE:HD13	1:a:335:GLN:HE21	1.16	1.06
1:a:320:VAL:HG12	1:b:297:ILE:HG22	1.31	1.06
1:b:331:GLN:HE22	1:c:335:GLN:CB	1.68	1.06
1:d:80:MET:CG	1:d:127:ARG:NH2	2.18	1.06
1:d:397:GLN:HB3	1:d:426:ILE:HG12	1.33	1.06
1:e:320:VAL:HG12	1:f:297:ILE:HG22	1.29	1.06
1:f:244:TYR:CE2	1:f:250:PRO:CD	2.38	1.06
1:g:17:TYR:HE1	1:g:167:VAL:HG23	1.19	1.06
1:g:244:TYR:CZ	1:g:250:PRO:HD3	1.89	1.06
1:h:17:TYR:HE1	1:h:167:VAL:HG23	1.19	1.06
1:i:17:TYR:CE1	1:i:167:VAL:HG23	1.89	1.06
1:i:368:ARG:O	1:i:370:THR:HB	1.51	1.06
1:j:244:TYR:CE2	1:j:250:PRO:CD	2.38	1.06
1:k:244:TYR:CE2	1:k:250:PRO:CD	2.38	1.06
1:k:397:GLN:HB3	1:k:426:ILE:HG12	1.33	1.06
1:a:162:ARG:HD2	1:b:260:ASP:CB	1.85	1.06
1:a:260:ASP:CB	1:l:162:ARG:HD2	1.83	1.06
1:b:442:LEU:HD21	1:b:476:ILE:HD13	1.15	1.06
1:d:86:LEU:CD2	1:d:424:PRO:CB	2.17	1.06
1:d:383:ASP:O	1:d:386:GLY:N	1.86	1.06
1:e:97:LEU:HA	1:e:99:ASP:O	1.53	1.06
1:g:78:PHE:CZ	1:g:130:LEU:HD11	1.88	1.06
1:g:97:LEU:HA	1:g:99:ASP:O	1.53	1.06
1:h:162:ARG:HH12	1:i:259:LEU:CD2	1.67	1.06
1:h:244:TYR:CE2	1:h:250:PRO:CD	2.38	1.06
1:h:255:ARG:N	1:h:395:GLU:HG3	1.68	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:97:LEU:HA	1:j:99:ASP:O	1.53	1.06
1:j:162:ARG:HD2	1:k:260:ASP:HB2	1.36	1.06
1:k:17:TYR:CE1	1:k:167:VAL:HG23	1.89	1.06
1:k:55:GLN:OE1	1:k:55:GLN:N	1.88	1.06
1:a:17:TYR:CE1	1:a:167:VAL:HG23	1.89	1.06
1:a:397:GLN:HB3	1:a:426:ILE:HG12	1.33	1.06
1:a:455:MET:CE	1:l:449:TRP:C	2.28	1.06
1:b:320:VAL:HG12	1:c:297:ILE:HG22	1.31	1.06
1:c:17:TYR:CE1	1:c:167:VAL:HG23	1.89	1.06
1:c:80:MET:CG	1:c:127:ARG:NH2	2.18	1.06
1:d:78:PHE:CZ	1:d:130:LEU:HD11	1.88	1.06
1:i:55:GLN:N	1:i:55:GLN:OE1	1.89	1.06
1:i:162:ARG:HD2	1:j:260:ASP:CB	1.84	1.06
1:k:80:MET:CG	1:k:127:ARG:NH2	2.18	1.06
1:k:331:GLN:HE22	1:l:335:GLN:CB	1.68	1.06
1:l:55:GLN:N	1:l:55:GLN:OE1	1.89	1.06
1:a:162:ARG:HD2	1:b:260:ASP:HB2	1.35	1.06
1:b:39:ILE:HD12	1:b:42:LEU:HD23	1.36	1.06
1:b:244:TYR:CE2	1:b:250:PRO:CD	2.38	1.06
1:b:397:GLN:HB3	1:b:426:ILE:HG12	1.33	1.06
1:c:244:TYR:CE2	1:c:250:PRO:CD	2.38	1.06
1:c:255:ARG:H	1:c:395:GLU:HG3	1.14	1.06
1:d:17:TYR:CE1	1:d:167:VAL:HG23	1.90	1.06
1:d:249:CYS:SG	1:d:407:GLN:HG2	1.94	1.06
1:e:17:TYR:HE1	1:e:167:VAL:HG23	1.19	1.06
1:e:162:ARG:HD2	1:f:260:ASP:CG	1.80	1.06
1:e:244:TYR:CE2	1:e:250:PRO:CD	2.38	1.06
1:f:249:CYS:SG	1:f:407:GLN:HG2	1.94	1.06
1:g:249:CYS:SG	1:g:407:GLN:HG2	1.94	1.06
1:h:80:MET:CG	1:h:127:ARG:NH2	2.18	1.06
1:i:39:ILE:HD12	1:i:42:LEU:HD23	1.36	1.06
1:j:80:MET:CG	1:j:127:ARG:NH2	2.18	1.06
1:j:289:MET:HE3	1:k:340:VAL:CB	1.84	1.06
1:l:80:MET:CG	1:l:127:ARG:NH2	2.18	1.06
1:a:297:ILE:HG22	1:l:320:VAL:HG12	1.31	1.06
1:a:320:VAL:HG11	1:b:297:ILE:HG21	1.33	1.06
1:a:442:LEU:CD2	1:a:476:ILE:HG21	1.86	1.06
1:b:292:ILE:HD13	1:b:335:GLN:HE21	1.16	1.06
1:b:397:GLN:HG2	1:b:426:ILE:HG23	1.11	1.06
1:c:162:ARG:HH12	1:d:259:LEU:CD2	1.67	1.06
1:g:80:MET:CG	1:g:127:ARG:NH2	2.18	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:17:TYR:CE1	1:h:167:VAL:HG23	1.89	1.06
1:h:331:GLN:HE22	1:i:335:GLN:CB	1.67	1.06
1:i:80:MET:CG	1:i:127:ARG:NH2	2.18	1.06
1:i:244:TYR:CZ	1:i:250:PRO:HD3	1.89	1.06
1:i:359:ASN:ND2	1:j:380:GLU:CB	2.19	1.06
1:j:39:ILE:HD12	1:j:42:LEU:HD23	1.36	1.06
1:j:249:CYS:SG	1:j:407:GLN:HG2	1.94	1.06
1:j:397:GLN:HB3	1:j:426:ILE:HG12	1.33	1.06
1:k:162:ARG:HD2	1:l:260:ASP:HB2	1.34	1.06
1:k:442:LEU:CD2	1:k:476:ILE:HG21	1.86	1.06
1:a:244:TYR:CE2	1:a:250:PRO:CD	2.38	1.05
1:a:449:TRP:C	1:b:455:MET:CE	2.29	1.05
1:a:481:ILE:HD12	1:b:466:ILE:HG12	1.28	1.05
1:b:449:TRP:C	1:c:455:MET:HE1	1.79	1.05
1:c:162:ARG:HD2	1:d:260:ASP:CG	1.81	1.05
1:c:249:CYS:SG	1:c:407:GLN:HG2	1.94	1.05
1:c:292:ILE:HD13	1:c:335:GLN:HE21	1.16	1.05
1:d:244:TYR:CE2	1:d:250:PRO:CD	2.38	1.05
1:d:255:ARG:H	1:d:395:GLU:HG3	1.14	1.05
1:e:162:ARG:HH12	1:f:259:LEU:CD2	1.67	1.05
1:h:162:ARG:HD2	1:i:260:ASP:CG	1.81	1.05
1:i:17:TYR:HE1	1:i:167:VAL:HG23	1.19	1.05
1:i:442:LEU:CD2	1:i:476:ILE:HG21	1.86	1.05
1:k:397:GLN:HG2	1:k:426:ILE:HG23	1.11	1.05
1:l:244:TYR:CE2	1:l:250:PRO:CD	2.38	1.05
1:l:442:LEU:CD2	1:l:476:ILE:HG21	1.86	1.05
1:a:17:TYR:CE1	1:a:167:VAL:CG2	2.40	1.05
1:a:249:CYS:SG	1:a:407:GLN:HG2	1.94	1.05
1:a:408:LEU:HB3	1:a:414:ILE:CG1	1.87	1.05
1:b:80:MET:CG	1:b:127:ARG:NH2	2.18	1.05
1:b:442:LEU:CD2	1:b:476:ILE:HG21	1.86	1.05
1:e:292:ILE:HD13	1:e:335:GLN:HE21	1.16	1.05
1:h:78:PHE:HZ	1:h:130:LEU:HD11	0.96	1.05
1:l:17:TYR:CE1	1:l:167:VAL:CG2	2.40	1.05
1:a:145:LEU:HB2	1:a:158:MET:HE2	1.39	1.05
1:a:162:ARG:HH12	1:b:259:LEU:CD2	1.69	1.05
1:a:398:LEU:HD22	1:a:426:ILE:CD1	1.87	1.05
1:b:17:TYR:CE1	1:b:167:VAL:CG2	2.40	1.05
1:b:162:ARG:HH12	1:c:259:LEU:CD2	1.68	1.05
1:b:408:LEU:HB3	1:b:414:ILE:CG1	1.87	1.05
1:c:97:LEU:HA	1:c:99:ASP:O	1.53	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:289:MET:HE3	1:d:340:VAL:CB	1.86	1.05
1:c:383:ASP:O	1:c:386:GLY:N	1.86	1.05
1:d:320:VAL:HG12	1:e:297:ILE:HG22	1.32	1.05
1:e:39:ILE:HD12	1:e:42:LEU:HD23	1.36	1.05
1:e:80:MET:CG	1:e:127:ARG:NH2	2.18	1.05
1:e:255:ARG:H	1:e:395:GLU:HG3	1.14	1.05
1:e:481:ILE:HD11	1:f:466:ILE:HD11	1.22	1.05
1:f:55:GLN:OE1	1:f:55:GLN:N	1.89	1.05
1:f:145:LEU:HB2	1:f:158:MET:HE2	1.39	1.05
1:g:162:ARG:HD2	1:h:260:ASP:CG	1.81	1.05
1:h:320:VAL:HG12	1:i:297:ILE:HG22	1.30	1.05
1:j:17:TYR:CE1	1:j:167:VAL:CG2	2.40	1.05
1:j:162:ARG:HD2	1:k:260:ASP:CB	1.86	1.05
1:j:449:TRP:C	1:k:455:MET:HE1	1.82	1.05
1:k:17:TYR:CE1	1:k:167:VAL:CG2	2.40	1.05
1:a:162:ARG:HD2	1:b:260:ASP:CG	1.82	1.05
1:a:260:ASP:CG	1:l:162:ARG:HD2	1.81	1.05
1:a:455:MET:HE1	1:l:449:TRP:C	1.80	1.05
1:b:55:GLN:OE1	1:b:55:GLN:N	1.87	1.05
1:b:145:LEU:HB2	1:b:158:MET:HE2	1.39	1.05
1:b:398:LEU:HD22	1:b:426:ILE:CD1	1.87	1.05
1:c:397:GLN:HB3	1:c:426:ILE:HG12	1.33	1.05
1:c:449:TRP:C	1:d:455:MET:HE1	1.80	1.05
1:e:397:GLN:HB3	1:e:426:ILE:HG12	1.33	1.05
1:g:480:GLY:O	1:h:465:MET:HB3	1.56	1.05
1:i:17:TYR:CE1	1:i:167:VAL:CG2	2.40	1.05
1:i:408:LEU:HB3	1:i:414:ILE:CG1	1.87	1.05
1:j:408:LEU:HB3	1:j:414:ILE:CG1	1.87	1.05
1:l:397:GLN:HG2	1:l:426:ILE:HG23	1.11	1.05
1:a:397:GLN:HG2	1:a:426:ILE:HG23	1.11	1.05
1:c:17:TYR:CE1	1:c:167:VAL:CG2	2.40	1.05
1:d:292:ILE:HD13	1:d:335:GLN:HE21	1.16	1.05
1:e:397:GLN:HB2	1:e:426:ILE:HD13	1.39	1.05
1:g:398:LEU:HD22	1:g:426:ILE:CD1	1.87	1.05
1:g:442:LEU:CD2	1:g:476:ILE:HG21	1.86	1.05
1:h:398:LEU:HD22	1:h:426:ILE:CD1	1.87	1.05
1:h:408:LEU:HB3	1:h:414:ILE:CG1	1.87	1.05
1:h:481:ILE:HD11	1:i:466:ILE:HD11	1.22	1.05
1:i:398:LEU:HD22	1:i:426:ILE:CD1	1.87	1.05
1:j:162:ARG:HH12	1:k:259:LEU:CD2	1.69	1.05
1:j:442:LEU:CD2	1:j:476:ILE:HG21	1.86	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:398:LEU:HD22	1:k:426:ILE:CD1	1.87	1.05
1:l:145:LEU:HB2	1:l:158:MET:HE2	1.39	1.05
1:l:398:LEU:HD22	1:l:426:ILE:CD1	1.87	1.05
1:a:289:MET:HE3	1:b:340:VAL:CB	1.86	1.04
1:b:255:ARG:H	1:b:395:GLU:HG3	1.14	1.04
1:c:398:LEU:HD22	1:c:426:ILE:CD1	1.87	1.04
1:d:17:TYR:HE1	1:d:167:VAL:HG23	1.19	1.04
1:d:128:VAL:CG1	1:e:390:SER:OG	2.05	1.04
1:f:162:ARG:HD2	1:g:260:ASP:CB	1.86	1.04
1:f:397:GLN:HB2	1:f:426:ILE:HD13	1.39	1.04
1:f:398:LEU:HD22	1:f:426:ILE:CD1	1.87	1.04
1:h:17:TYR:CE1	1:h:167:VAL:CG2	2.40	1.04
1:h:39:ILE:HD12	1:h:42:LEU:HD23	1.36	1.04
1:h:289:MET:HE3	1:i:340:VAL:CB	1.85	1.04
1:h:481:ILE:HD11	1:i:466:ILE:CG1	1.79	1.04
1:i:320:VAL:HG11	1:j:297:ILE:HG21	1.34	1.04
1:i:481:ILE:HD11	1:j:466:ILE:CG1	1.82	1.04
1:j:398:LEU:HD22	1:j:426:ILE:CD1	1.87	1.04
1:k:39:ILE:HD12	1:k:42:LEU:HD23	1.36	1.04
1:k:162:ARG:HD2	1:l:260:ASP:CG	1.80	1.04
1:l:408:LEU:HB3	1:l:414:ILE:CG1	1.87	1.04
1:a:397:GLN:HB2	1:a:426:ILE:HD13	1.39	1.04
1:c:145:LEU:HB2	1:c:158:MET:HE2	1.39	1.04
1:d:39:ILE:HD12	1:d:42:LEU:HD23	1.36	1.04
1:d:77:LEU:HD22	1:d:78:PHE:CE1	1.93	1.04
1:d:145:LEU:HB2	1:d:158:MET:HE2	1.39	1.04
1:d:162:ARG:HD2	1:e:260:ASP:CB	1.87	1.04
1:d:398:LEU:HD22	1:d:426:ILE:CD1	1.87	1.04
1:e:145:LEU:HB2	1:e:158:MET:HE2	1.39	1.04
1:e:398:LEU:HD22	1:e:426:ILE:CD1	1.87	1.04
1:e:480:GLY:HA3	1:f:465:MET:HG2	1.40	1.04
1:e:480:GLY:O	1:f:465:MET:HB3	1.56	1.04
1:f:359:ASN:ND2	1:g:380:GLU:CB	2.20	1.04
1:g:77:LEU:HD22	1:g:78:PHE:CE1	1.93	1.04
1:g:145:LEU:HB2	1:g:158:MET:HE2	1.39	1.04
1:g:162:ARG:HH12	1:h:259:LEU:CD2	1.68	1.04
1:h:68:ASN:HD22	1:h:358:LEU:CD2	1.70	1.04
1:i:77:LEU:HD22	1:i:78:PHE:CE1	1.92	1.04
1:l:397:GLN:HB3	1:l:426:ILE:HG12	1.33	1.04
1:a:449:TRP:C	1:b:455:MET:HE1	1.82	1.04
1:b:77:LEU:HD22	1:b:78:PHE:CE1	1.93	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:331:GLN:NE2	1:c:335:GLN:CB	2.21	1.04
1:c:227:LEU:HD23	1:c:243:THR:HA	1.37	1.04
1:c:408:LEU:HB3	1:c:414:ILE:CG1	1.87	1.04
1:d:17:TYR:CE1	1:d:167:VAL:CG2	2.40	1.04
1:e:331:GLN:NE2	1:f:335:GLN:CB	2.19	1.04
1:h:145:LEU:HB2	1:h:158:MET:HE2	1.39	1.04
1:i:162:ARG:HD2	1:j:260:ASP:CG	1.82	1.04
1:j:227:LEU:HD23	1:j:243:THR:HA	1.37	1.04
1:j:319:PHE:CD2	1:k:311:LEU:HD12	1.93	1.04
1:k:86:LEU:CD2	1:k:424:PRO:CB	2.17	1.04
1:a:335:GLN:CB	1:l:331:GLN:HE22	1.70	1.04
1:b:289:MET:HE3	1:c:340:VAL:CB	1.84	1.04
1:b:319:PHE:CD2	1:c:311:LEU:HD12	1.92	1.04
1:b:397:GLN:HB2	1:b:426:ILE:HD13	1.39	1.04
1:c:55:GLN:OE1	1:c:55:GLN:N	1.89	1.04
1:c:331:GLN:HE22	1:d:335:GLN:CB	1.70	1.04
1:d:319:PHE:CD2	1:e:311:LEU:HD12	1.92	1.04
1:d:442:LEU:CD2	1:d:476:ILE:HG21	1.86	1.04
1:e:17:TYR:CE1	1:e:167:VAL:CG2	2.40	1.04
1:f:77:LEU:HD22	1:f:78:PHE:CE1	1.93	1.04
1:f:162:ARG:HH12	1:g:259:LEU:CD2	1.69	1.04
1:g:17:TYR:CE1	1:g:167:VAL:CG2	2.40	1.04
1:g:408:LEU:HB3	1:g:414:ILE:CG1	1.87	1.04
1:h:442:LEU:CD2	1:h:476:ILE:HG21	1.86	1.04
1:i:449:TRP:C	1:j:455:MET:HE1	1.82	1.04
1:k:145:LEU:HB2	1:k:158:MET:HE2	1.39	1.04
1:k:227:LEU:HD23	1:k:243:THR:HA	1.37	1.04
1:k:408:LEU:HB3	1:k:414:ILE:CG1	1.87	1.04
1:k:480:GLY:O	1:l:465:MET:HB3	1.56	1.04
1:l:397:GLN:HB2	1:l:426:ILE:HD13	1.39	1.04
1:a:255:ARG:H	1:a:395:GLU:HG3	1.14	1.04
1:c:39:ILE:HD12	1:c:42:LEU:HD23	1.36	1.04
1:c:86:LEU:CD2	1:c:424:PRO:CB	2.17	1.04
1:f:17:TYR:CE1	1:f:167:VAL:CG2	2.40	1.04
1:f:128:VAL:CG1	1:g:390:SER:OG	2.06	1.04
1:f:442:LEU:CD2	1:f:476:ILE:HG21	1.86	1.04
1:g:289:MET:HE3	1:h:340:VAL:CB	1.85	1.04
1:g:320:VAL:HG12	1:h:297:ILE:HG22	1.30	1.04
1:i:145:LEU:HB2	1:i:158:MET:HE2	1.39	1.04
1:j:128:VAL:CG1	1:k:390:SER:OG	2.06	1.04
1:j:145:LEU:HB2	1:j:158:MET:HE2	1.39	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:449:TRP:C	1:k:455:MET:CE	2.30	1.04
1:a:77:LEU:HD22	1:a:78:PHE:CE1	1.93	1.03
1:d:320:VAL:HG11	1:e:297:ILE:HG21	1.35	1.03
1:e:442:LEU:CD2	1:e:476:ILE:HG21	1.86	1.03
1:f:408:LEU:HB3	1:f:414:ILE:CG1	1.87	1.03
1:g:39:ILE:HD12	1:g:42:LEU:HD23	1.36	1.03
1:i:449:TRP:C	1:j:455:MET:CE	2.30	1.03
1:j:17:TYR:HE1	1:j:167:VAL:HG23	1.19	1.03
1:k:77:LEU:HD22	1:k:78:PHE:CE1	1.93	1.03
1:l:77:LEU:HD22	1:l:78:PHE:CE1	1.93	1.03
1:b:369:VAL:HA	1:b:370:THR:HB	1.37	1.03
1:c:442:LEU:CD2	1:c:476:ILE:HG21	1.86	1.03
1:c:480:GLY:O	1:d:465:MET:HB3	1.57	1.03
1:d:227:LEU:HD23	1:d:243:THR:HA	1.37	1.03
1:e:77:LEU:HD22	1:e:78:PHE:CE1	1.93	1.03
1:i:78:PHE:CZ	1:i:130:LEU:HD11	1.88	1.03
1:i:331:GLN:HE22	1:j:335:GLN:CB	1.71	1.03
1:k:481:ILE:HD11	1:l:466:ILE:CG1	1.79	1.03
1:b:227:LEU:HD23	1:b:243:THR:HA	1.37	1.03
1:c:17:TYR:HE1	1:c:167:VAL:HG23	1.19	1.03
1:c:323:ARG:HG3	1:c:324:PRO:HD2	1.03	1.03
1:d:449:TRP:C	1:e:455:MET:HE1	1.84	1.03
1:e:408:LEU:HB3	1:e:414:ILE:CG1	1.87	1.03
1:h:331:GLN:NE2	1:i:335:GLN:CB	2.21	1.03
1:i:227:LEU:HD23	1:i:243:THR:HA	1.37	1.03
1:i:319:PHE:CD2	1:j:311:LEU:HD12	1.94	1.03
1:a:323:ARG:HG3	1:a:324:PRO:HD2	1.03	1.03
1:d:397:GLN:HB2	1:d:426:ILE:HD13	1.39	1.03
1:d:408:LEU:HB3	1:d:414:ILE:CG1	1.87	1.03
1:f:78:PHE:CZ	1:f:130:LEU:HD11	1.88	1.03
1:f:319:PHE:CD2	1:g:311:LEU:HD12	1.92	1.03
1:h:77:LEU:HD22	1:h:78:PHE:CE1	1.93	1.03
1:h:244:TYR:CD2	1:h:249:CYS:O	2.12	1.03
1:h:480:GLY:O	1:i:465:MET:HB3	1.56	1.03
1:j:323:ARG:HG3	1:j:324:PRO:HD2	1.03	1.03
1:k:331:GLN:NE2	1:l:335:GLN:CB	2.21	1.03
1:a:331:GLN:HE22	1:b:335:GLN:CB	1.71	1.03
1:a:340:VAL:CB	1:l:289:MET:HE3	1.85	1.03
1:a:480:GLY:O	1:b:465:MET:HB3	1.58	1.03
1:b:244:TYR:CD2	1:b:249:CYS:O	2.12	1.03
1:b:480:GLY:O	1:c:465:MET:HB3	1.57	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:319:PHE:CD2	1:d:311:LEU:HD12	1.94	1.03
1:c:480:GLY:HA3	1:d:465:MET:HG2	1.41	1.03
1:d:162:ARG:HH12	1:e:259:LEU:CD2	1.70	1.03
1:d:449:TRP:C	1:e:455:MET:CE	2.32	1.03
1:e:397:GLN:HB3	1:e:426:ILE:CG1	1.89	1.03
1:f:320:VAL:HG12	1:g:297:ILE:HG22	1.33	1.03
1:f:323:ARG:HG3	1:f:324:PRO:HD2	1.04	1.03
1:f:397:GLN:HB3	1:f:426:ILE:CG1	1.89	1.03
1:h:78:PHE:CZ	1:h:130:LEU:HD11	1.88	1.03
1:j:162:ARG:HD2	1:k:260:ASP:CG	1.84	1.03
1:k:17:TYR:HE1	1:k:167:VAL:HG23	1.19	1.03
1:l:39:ILE:HD12	1:l:42:LEU:HD23	1.36	1.03
1:c:77:LEU:HD22	1:c:78:PHE:CE1	1.93	1.02
1:d:323:ARG:HG3	1:d:324:PRO:HD2	1.03	1.02
1:g:244:TYR:CD2	1:g:249:CYS:O	2.12	1.02
1:g:331:GLN:NE2	1:h:335:GLN:CB	2.22	1.02
1:i:244:TYR:CD2	1:i:249:CYS:O	2.12	1.02
1:j:77:LEU:HD22	1:j:78:PHE:CE1	1.93	1.02
1:j:331:GLN:HE22	1:k:335:GLN:CB	1.70	1.02
1:k:319:PHE:CD2	1:l:311:LEU:HD12	1.94	1.02
1:k:397:GLN:HB2	1:k:426:ILE:HD13	1.39	1.02
1:l:244:TYR:CD2	1:l:249:CYS:O	2.12	1.02
1:l:323:ARG:HG3	1:l:324:PRO:HD2	1.03	1.02
1:a:357:MET:HE1	1:a:381:LEU:HD12	1.38	1.02
1:b:17:TYR:HE1	1:b:167:VAL:HG23	1.19	1.02
1:b:162:ARG:HD2	1:c:260:ASP:CG	1.83	1.02
1:c:244:TYR:CD2	1:c:249:CYS:O	2.12	1.02
1:d:481:ILE:HD11	1:e:466:ILE:CG1	1.84	1.02
1:f:37:TYR:HE2	1:f:276:LEU:HD11	0.87	1.02
1:f:162:ARG:HD2	1:g:260:ASP:CG	1.84	1.02
1:g:397:GLN:HB2	1:g:426:ILE:HD13	1.39	1.02
1:h:319:PHE:CD2	1:i:311:LEU:HD12	1.94	1.02
1:i:128:VAL:CG1	1:j:390:SER:OG	2.07	1.02
1:i:258:ARG:HH11	1:i:258:ARG:HG3	1.21	1.02
1:i:323:ARG:HG3	1:i:324:PRO:HD2	1.03	1.02
1:i:480:GLY:O	1:j:465:MET:HB3	1.58	1.02
1:k:78:PHE:CZ	1:k:130:LEU:HD11	1.88	1.02
1:l:227:LEU:HD23	1:l:243:THR:HA	1.37	1.02
1:a:39:ILE:HD12	1:a:42:LEU:HD23	1.36	1.02
1:a:335:GLN:CB	1:l:331:GLN:NE2	2.23	1.02
1:b:258:ARG:HG3	1:b:258:ARG:HH11	1.21	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:397:GLN:HB3	1:c:426:ILE:CG1	1.89	1.02
1:e:335:GLN:HE22	1:f:336:ALA:HB3	1.25	1.02
1:e:481:ILE:HD11	1:f:466:ILE:CG1	1.79	1.02
1:g:37:TYR:HE2	1:g:276:LEU:HD11	0.86	1.02
1:g:323:ARG:HG3	1:g:324:PRO:HD2	1.03	1.02
1:h:37:TYR:HE2	1:h:276:LEU:HD11	0.86	1.02
1:i:254:ILE:CD1	1:i:396:LEU:CD2	2.38	1.02
1:j:258:ARG:HG3	1:j:258:ARG:HH11	1.21	1.02
1:k:480:GLY:HA3	1:l:465:MET:HG2	1.40	1.02
1:l:86:LEU:CD2	1:l:424:PRO:CB	2.17	1.02
1:l:368:ARG:O	1:l:370:THR:HB	1.59	1.02
1:b:68:ASN:HD22	1:b:358:LEU:CD2	1.72	1.02
1:c:225:GLU:HB2	1:c:243:THR:HB	1.42	1.02
1:d:162:ARG:HD2	1:e:260:ASP:CG	1.85	1.02
1:d:331:GLN:HE22	1:e:335:GLN:CB	1.73	1.02
1:f:227:LEU:HD23	1:f:243:THR:HA	1.37	1.02
1:g:227:LEU:HD23	1:g:243:THR:HA	1.37	1.02
1:g:254:ILE:CD1	1:g:396:LEU:CD2	2.38	1.02
1:h:397:GLN:HB3	1:h:426:ILE:CG1	1.89	1.02
1:j:225:GLU:HB2	1:j:243:THR:HB	1.42	1.02
1:j:254:ILE:CD1	1:j:396:LEU:CD2	2.37	1.02
1:a:128:VAL:CG1	1:b:390:SER:OG	2.07	1.02
1:a:244:TYR:CD2	1:a:249:CYS:O	2.12	1.02
1:a:258:ARG:HH11	1:a:258:ARG:HG3	1.21	1.02
1:a:390:SER:OG	1:l:128:VAL:CG1	2.08	1.02
1:a:465:MET:HB3	1:l:480:GLY:O	1.57	1.02
1:b:86:LEU:CD2	1:b:424:PRO:CB	2.17	1.02
1:b:254:ILE:CD1	1:b:396:LEU:CD2	2.38	1.02
1:d:289:MET:HE3	1:e:340:VAL:CB	1.84	1.02
1:e:37:TYR:HE2	1:e:276:LEU:HD11	0.86	1.02
1:f:39:ILE:HD12	1:f:42:LEU:HD23	1.36	1.02
1:g:225:GLU:HB2	1:g:243:THR:HB	1.42	1.02
1:g:481:ILE:HD11	1:h:466:ILE:CD1	1.74	1.02
1:j:244:TYR:CD2	1:j:249:CYS:O	2.12	1.02
1:k:128:VAL:CG1	1:l:390:SER:OG	2.08	1.02
1:a:17:TYR:HE1	1:a:167:VAL:HG23	1.19	1.01
1:a:227:LEU:HD23	1:a:243:THR:HA	1.37	1.01
1:a:254:ILE:CD1	1:a:396:LEU:CD2	2.38	1.01
1:a:311:LEU:HD12	1:l:319:PHE:CD2	1.94	1.01
1:a:397:GLN:HB3	1:a:426:ILE:CG1	1.89	1.01
1:c:254:ILE:CD1	1:c:396:LEU:CD2	2.37	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:225:GLU:HB2	1:d:243:THR:HB	1.42	1.01
1:d:480:GLY:O	1:e:465:MET:HB3	1.60	1.01
1:f:137:LEU:CD1	1:f:256:MET:SD	2.48	1.01
1:f:244:TYR:CD2	1:f:249:CYS:O	2.12	1.01
1:f:449:TRP:C	1:g:455:MET:HE1	1.84	1.01
1:f:480:GLY:O	1:g:465:MET:HB3	1.60	1.01
1:g:480:GLY:HA3	1:h:465:MET:HG2	1.40	1.01
1:h:86:LEU:CD2	1:h:424:PRO:CB	2.17	1.01
1:i:37:TYR:HE2	1:i:276:LEU:HD11	0.86	1.01
1:j:397:GLN:HB2	1:j:426:ILE:HD13	1.39	1.01
1:j:480:GLY:O	1:k:465:MET:HB3	1.59	1.01
1:l:17:TYR:HE1	1:l:167:VAL:HG23	1.19	1.01
1:a:225:GLU:HB2	1:a:243:THR:HB	1.42	1.01
1:a:480:GLY:HA3	1:b:465:MET:HG2	1.41	1.01
1:b:397:GLN:HB3	1:b:426:ILE:CG1	1.89	1.01
1:b:480:GLY:HA3	1:c:465:MET:HG2	1.41	1.01
1:c:128:VAL:CG1	1:d:390:SER:OG	2.08	1.01
1:c:258:ARG:HH11	1:c:258:ARG:HG3	1.21	1.01
1:c:331:GLN:NE2	1:d:335:GLN:CB	2.23	1.01
1:d:17:TYR:CE2	1:d:182:ARG:CD	2.44	1.01
1:d:244:TYR:CD2	1:d:249:CYS:O	2.12	1.01
1:e:137:LEU:CD1	1:e:256:MET:SD	2.48	1.01
1:e:319:PHE:CD2	1:f:311:LEU:HD12	1.95	1.01
1:f:17:TYR:CE2	1:f:182:ARG:CD	2.44	1.01
1:f:331:GLN:HE22	1:g:335:GLN:CB	1.73	1.01
1:f:449:TRP:C	1:g:455:MET:CE	2.32	1.01
1:f:481:ILE:HD11	1:g:466:ILE:CD1	1.77	1.01
1:h:137:LEU:CD1	1:h:256:MET:SD	2.49	1.01
1:h:227:LEU:HD23	1:h:243:THR:HA	1.37	1.01
1:a:86:LEU:CD2	1:a:424:PRO:CB	2.17	1.01
1:c:17:TYR:CE2	1:c:182:ARG:CD	2.44	1.01
1:d:37:TYR:HE2	1:d:276:LEU:HD11	0.87	1.01
1:d:137:LEU:CD1	1:d:256:MET:SD	2.49	1.01
1:d:397:GLN:HB3	1:d:426:ILE:CG1	1.89	1.01
1:e:128:VAL:CG1	1:f:390:SER:OG	2.09	1.01
1:e:227:LEU:HD23	1:e:243:THR:HA	1.37	1.01
1:e:258:ARG:HH11	1:e:258:ARG:HG3	1.21	1.01
1:e:464:ALA:HA	1:f:460:ASP:OD2	1.61	1.01
1:f:481:ILE:HD11	1:g:466:ILE:CG1	1.84	1.01
1:g:17:TYR:CE2	1:g:182:ARG:CD	2.44	1.01
1:i:289:MET:HE3	1:j:340:VAL:CB	1.85	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:397:GLN:HB3	1:k:426:ILE:CG1	1.89	1.01
1:l:397:GLN:HB3	1:l:426:ILE:CG1	1.89	1.01
1:a:466:ILE:CG1	1:l:481:ILE:HD12	1.86	1.01
1:b:17:TYR:CE2	1:b:182:ARG:CD	2.44	1.01
1:b:128:VAL:CG1	1:c:390:SER:OG	2.07	1.01
1:e:244:TYR:CD2	1:e:249:CYS:O	2.12	1.01
1:f:481:ILE:HD12	1:g:466:ILE:CG1	1.85	1.01
1:g:137:LEU:CD1	1:g:256:MET:SD	2.48	1.01
1:i:397:GLN:HB3	1:i:426:ILE:CG1	1.89	1.01
1:i:480:GLY:HA3	1:j:465:MET:HG2	1.42	1.01
1:k:323:ARG:HG3	1:k:324:PRO:HD2	1.03	1.01
1:l:225:GLU:HB2	1:l:243:THR:HB	1.42	1.01
1:a:78:PHE:CZ	1:a:130:LEU:HD11	1.88	1.01
1:c:137:LEU:CD1	1:c:256:MET:SD	2.49	1.01
1:e:17:TYR:CE2	1:e:182:ARG:CD	2.44	1.01
1:f:225:GLU:HB2	1:f:243:THR:HB	1.42	1.01
1:f:254:ILE:CD1	1:f:396:LEU:CD2	2.38	1.01
1:f:258:ARG:HH11	1:f:258:ARG:HG3	1.21	1.01
1:g:319:PHE:CD2	1:h:311:LEU:HD12	1.95	1.01
1:g:397:GLN:HB3	1:g:426:ILE:CG1	1.89	1.01
1:h:254:ILE:CD1	1:h:396:LEU:CD2	2.38	1.01
1:h:300:VAL:CG1	1:h:327:ILE:CG2	2.08	1.01
1:h:335:GLN:HE22	1:i:336:ALA:HB3	1.26	1.01
1:i:17:TYR:CE2	1:i:182:ARG:CD	2.44	1.01
1:i:86:LEU:CD2	1:i:424:PRO:CB	2.17	1.01
1:i:137:LEU:CD1	1:i:256:MET:SD	2.48	1.01
1:j:37:TYR:HE2	1:j:276:LEU:HD11	0.87	1.01
1:j:331:GLN:NE2	1:k:335:GLN:CB	2.23	1.01
1:k:128:VAL:CB	1:l:390:SER:OG	2.09	1.01
1:k:254:ILE:CD1	1:k:396:LEU:CD2	2.38	1.01
1:k:368:ARG:O	1:k:370:THR:HB	1.59	1.01
1:l:254:ILE:CD1	1:l:396:LEU:CD2	2.38	1.01
1:a:259:LEU:CD2	1:l:162:ARG:NH1	2.24	1.00
1:a:331:GLN:NE2	1:b:335:GLN:CB	2.25	1.00
1:c:78:PHE:CZ	1:c:130:LEU:HD11	1.88	1.00
1:c:397:GLN:HB2	1:c:426:ILE:HD13	1.40	1.00
1:d:254:ILE:CD1	1:d:396:LEU:CD2	2.38	1.00
1:e:448:ALA:O	1:e:451:ALA:N	1.94	1.00
1:g:86:LEU:CD2	1:g:424:PRO:CB	2.17	1.00
1:g:258:ARG:HG3	1:g:258:ARG:HH11	1.21	1.00
1:g:335:GLN:HE22	1:h:336:ALA:HB3	1.26	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:354:PHE:O	1:g:357:MET:CE	2.09	1.00
1:i:225:GLU:HB2	1:i:243:THR:HB	1.42	1.00
1:i:397:GLN:HB2	1:i:426:ILE:HD13	1.39	1.00
1:k:244:TYR:CD2	1:k:249:CYS:O	2.12	1.00
1:k:464:ALA:CA	1:l:460:ASP:OD2	2.09	1.00
1:l:258:ARG:HH11	1:l:258:ARG:HG3	1.21	1.00
1:a:17:TYR:CE2	1:a:182:ARG:CD	2.44	1.00
1:a:448:ALA:O	1:a:451:ALA:N	1.94	1.00
1:b:83:TRP:HD1	1:b:118:MET:HE1	1.26	1.00
1:d:258:ARG:HH11	1:d:258:ARG:HG3	1.21	1.00
1:e:254:ILE:CD1	1:e:396:LEU:CD2	2.37	1.00
1:e:323:ARG:HG3	1:e:324:PRO:HD2	1.03	1.00
1:e:464:ALA:CA	1:f:460:ASP:OD2	2.08	1.00
1:j:128:VAL:HG12	1:k:390:SER:HG	0.89	1.00
1:j:397:GLN:HB3	1:j:426:ILE:CG1	1.89	1.00
1:k:137:LEU:CD1	1:k:256:MET:SD	2.49	1.00
1:l:137:LEU:CD1	1:l:256:MET:SD	2.49	1.00
1:l:448:ALA:O	1:l:451:ALA:N	1.95	1.00
1:a:83:TRP:HD1	1:a:118:MET:HE1	1.26	1.00
1:a:137:LEU:CD1	1:a:256:MET:SD	2.49	1.00
1:b:37:TYR:HE2	1:b:276:LEU:HD11	0.87	1.00
1:b:481:ILE:HD11	1:c:466:ILE:HD11	1.23	1.00
1:c:37:TYR:HE2	1:c:276:LEU:HD11	0.86	1.00
1:e:162:ARG:NH1	1:f:259:LEU:CD2	2.23	1.00
1:f:448:ALA:O	1:f:451:ALA:N	1.94	1.00
1:g:128:VAL:CG1	1:h:390:SER:OG	2.08	1.00
1:h:17:TYR:CE2	1:h:182:ARG:CD	2.44	1.00
1:i:162:ARG:NH1	1:j:259:LEU:CD2	2.24	1.00
1:i:448:ALA:O	1:i:451:ALA:N	1.94	1.00
1:k:162:ARG:NH1	1:l:259:LEU:CD2	2.24	1.00
1:a:37:TYR:HE2	1:a:276:LEU:HD11	0.87	1.00
1:a:128:VAL:CB	1:b:390:SER:OG	2.09	1.00
1:b:323:ARG:HG3	1:b:324:PRO:HD2	1.03	1.00
1:h:128:VAL:CG1	1:i:390:SER:OG	2.08	1.00
1:h:162:ARG:NH1	1:i:259:LEU:CD2	2.23	1.00
1:i:331:GLN:NE2	1:j:335:GLN:CB	2.25	1.00
1:b:128:VAL:CB	1:c:390:SER:OG	2.10	1.00
1:b:162:ARG:NH1	1:c:259:LEU:CD2	2.24	1.00
1:b:170:ARG:HD3	1:b:177:LEU:HD12	1.00	1.00
1:d:128:VAL:CB	1:e:390:SER:OG	2.10	1.00
1:h:464:ALA:CA	1:i:460:ASP:OD2	2.09	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:17:TYR:CE2	1:j:182:ARG:CD	2.44	1.00
1:g:135:LYS:O	1:g:138:VAL:HG12	1.62	1.00
1:h:258:ARG:HH11	1:h:258:ARG:HG3	1.21	1.00
1:h:323:ARG:HG3	1:h:324:PRO:HD2	1.03	1.00
1:h:331:GLN:NE2	1:i:335:GLN:HB3	1.77	1.00
1:h:397:GLN:HB2	1:h:426:ILE:HD13	1.39	1.00
1:i:128:VAL:CB	1:j:390:SER:OG	2.09	1.00
1:k:68:ASN:HD22	1:k:358:LEU:CD2	1.74	1.00
1:b:137:LEU:CD1	1:b:256:MET:SD	2.49	1.00
1:c:170:ARG:HD3	1:c:177:LEU:HD12	1.00	1.00
1:d:448:ALA:O	1:d:451:ALA:N	1.94	1.00
1:h:448:ALA:O	1:h:451:ALA:N	1.94	1.00
1:i:481:ILE:HD12	1:j:466:ILE:CG1	1.85	1.00
1:j:137:LEU:CD1	1:j:256:MET:SD	2.49	1.00
1:k:170:ARG:HD3	1:k:177:LEU:HD12	1.00	1.00
1:k:258:ARG:HH11	1:k:258:ARG:HG3	1.21	1.00
1:l:17:TYR:CE2	1:l:182:ARG:CD	2.44	1.00
1:a:135:LYS:O	1:a:138:VAL:HG12	1.62	0.99
1:a:170:ARG:HD3	1:a:177:LEU:HD12	1.00	0.99
1:a:358:LEU:HD22	1:a:359:ASN:H	1.23	0.99
1:c:56:THR:HG21	1:d:273:LEU:HD12	1.44	0.99
1:c:162:ARG:NH1	1:d:259:LEU:CD2	2.23	0.99
1:d:170:ARG:HD3	1:d:177:LEU:HD12	1.00	0.99
1:d:277:ARG:HD3	1:d:348:ILE:HG12	1.31	0.99
1:d:480:GLY:HA3	1:e:465:MET:HG2	1.44	0.99
1:g:481:ILE:HD12	1:h:466:ILE:CG1	1.87	0.99
1:j:448:ALA:O	1:j:451:ALA:N	1.94	0.99
1:k:37:TYR:HE2	1:k:276:LEU:HD11	0.87	0.99
1:h:225:GLU:HB2	1:h:243:THR:HB	1.42	0.99
1:j:170:ARG:HD3	1:j:177:LEU:HD12	1.00	0.99
1:k:17:TYR:CE2	1:k:182:ARG:CD	2.44	0.99
1:b:448:ALA:O	1:b:451:ALA:N	1.95	0.99
1:b:481:ILE:HD11	1:c:466:ILE:CG1	1.81	0.99
1:d:481:ILE:HD12	1:e:466:ILE:CG1	1.85	0.99
1:e:359:ASN:CG	1:f:380:GLU:HB3	1.87	0.99
1:h:128:VAL:CB	1:i:390:SER:OG	2.09	0.99
1:h:135:LYS:O	1:h:138:VAL:HG12	1.62	0.99
1:l:170:ARG:HD3	1:l:177:LEU:HD12	1.00	0.99
1:j:480:GLY:HA3	1:k:465:MET:HG2	1.43	0.99
1:l:37:TYR:HE2	1:l:276:LEU:HD11	0.86	0.99
1:a:162:ARG:NH1	1:b:259:LEU:CD2	2.25	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:319:PHE:CD2	1:b:311:LEU:HD12	1.95	0.99
1:a:390:SER:OG	1:l:128:VAL:CB	2.10	0.99
1:d:128:VAL:HG12	1:e:390:SER:HG	1.27	0.99
1:e:68:ASN:HD22	1:e:358:LEU:CD2	1.74	0.99
1:e:170:ARG:HD3	1:e:177:LEU:HD12	1.00	0.99
1:h:464:ALA:HA	1:i:460:ASP:OD2	1.63	0.99
1:k:254:ILE:HG12	1:k:395:GLU:HB3	1.43	0.99
1:c:128:VAL:CB	1:d:390:SER:OG	2.10	0.99
1:e:289:MET:HE3	1:f:340:VAL:CB	1.85	0.99
1:f:128:VAL:CB	1:g:390:SER:OG	2.10	0.99
1:g:162:ARG:NH1	1:h:259:LEU:CD2	2.25	0.99
1:i:170:ARG:HD3	1:i:177:LEU:HD12	1.00	0.99
1:k:448:ALA:O	1:k:451:ALA:N	1.94	0.99
1:d:274:GLY:O	1:d:277:ARG:CG	2.11	0.99
1:f:170:ARG:HD3	1:f:177:LEU:HD12	1.00	0.99
1:j:128:VAL:CB	1:k:390:SER:OG	2.10	0.99
1:j:162:ARG:NH1	1:k:259:LEU:CD2	2.25	0.99
1:a:465:MET:HG2	1:l:480:GLY:HA3	1.41	0.99
1:a:481:ILE:HD12	1:b:466:ILE:CG1	1.85	0.99
1:g:128:VAL:CB	1:h:390:SER:OG	2.10	0.99
1:h:480:GLY:HA3	1:i:465:MET:HG2	1.40	0.99
1:j:254:ILE:HG12	1:j:395:GLU:HB3	1.44	0.99
1:k:274:GLY:O	1:k:277:ARG:CG	2.11	0.99
1:c:147:LEU:HD12	1:c:407:GLN:CD	1.87	0.99
1:c:274:GLY:O	1:c:277:ARG:CG	2.11	0.99
1:e:128:VAL:CB	1:f:390:SER:OG	2.09	0.99
1:e:331:GLN:NE2	1:f:335:GLN:HB3	1.76	0.99
1:f:289:MET:HE3	1:g:340:VAL:CB	1.85	0.99
1:h:170:ARG:HD3	1:h:177:LEU:HD12	1.00	0.99
1:k:289:MET:HE3	1:l:340:VAL:CB	1.85	0.99
1:b:147:LEU:HD12	1:b:407:GLN:CD	1.87	0.99
1:c:335:GLN:HE22	1:d:336:ALA:HB3	1.28	0.99
1:e:78:PHE:CZ	1:e:130:LEU:HD11	1.88	0.99
1:e:135:LYS:O	1:e:138:VAL:HG12	1.62	0.99
1:e:254:ILE:HG12	1:e:395:GLU:HB3	1.44	0.99
1:g:464:ALA:CA	1:h:460:ASP:OD2	2.10	0.99
1:j:274:GLY:O	1:j:277:ARG:CG	2.11	0.99
1:b:335:GLN:HE22	1:c:336:ALA:HB3	1.26	0.98
1:f:162:ARG:NH1	1:g:259:LEU:CD2	2.25	0.98
1:f:446:VAL:HG22	1:g:452:LEU:HD21	0.99	0.98
1:g:170:ARG:HD3	1:g:177:LEU:HD12	1.00	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:274:GLY:O	1:g:277:ARG:CG	2.11	0.98
1:g:448:ALA:O	1:g:451:ALA:N	1.94	0.98
1:j:147:LEU:HD12	1:j:407:GLN:CD	1.88	0.98
1:k:135:LYS:O	1:k:138:VAL:HG12	1.62	0.98
1:k:464:ALA:HA	1:l:460:ASP:OD2	1.62	0.98
1:l:300:VAL:CG1	1:l:327:ILE:CG2	2.08	0.98
1:d:147:LEU:HD12	1:d:407:GLN:CD	1.88	0.98
1:g:293:SER:HB2	1:h:284:GLU:OE2	1.64	0.98
1:i:147:LEU:HD12	1:i:407:GLN:CD	1.87	0.98
1:k:147:LEU:HD12	1:k:407:GLN:CD	1.87	0.98
1:k:170:ARG:CD	1:k:177:LEU:HD12	1.93	0.98
1:l:254:ILE:HG12	1:l:395:GLU:HB3	1.43	0.98
1:a:273:LEU:HD12	1:l:56:THR:HG21	1.45	0.98
1:e:274:GLY:O	1:e:277:ARG:CG	2.11	0.98
1:j:170:ARG:CD	1:j:177:LEU:HD12	1.93	0.98
1:k:335:GLN:HE22	1:l:336:ALA:HB3	1.26	0.98
1:a:460:ASP:OD2	1:l:464:ALA:CA	2.12	0.98
1:c:135:LYS:O	1:c:138:VAL:HG12	1.62	0.98
1:d:254:ILE:HG12	1:d:395:GLU:HB3	1.44	0.98
1:e:225:GLU:HB2	1:e:243:THR:HB	1.42	0.98
1:e:367:GLU:O	1:f:373:GLU:OE2	1.81	0.98
1:f:86:LEU:CD2	1:f:424:PRO:CB	2.17	0.98
1:k:225:GLU:HB2	1:k:243:THR:HB	1.42	0.98
1:l:135:LYS:O	1:l:138:VAL:HG12	1.62	0.98
1:l:274:GLY:O	1:l:277:ARG:CG	2.11	0.98
1:b:225:GLU:HB2	1:b:243:THR:HB	1.42	0.98
1:c:159:LYS:HE2	1:c:161:TYR:HE1	1.27	0.98
1:c:448:ALA:O	1:c:451:ALA:N	1.94	0.98
1:f:331:GLN:NE2	1:g:335:GLN:CB	2.26	0.98
1:i:170:ARG:CD	1:i:177:LEU:HD12	1.94	0.98
1:i:254:ILE:HG12	1:i:395:GLU:HB3	1.43	0.98
1:j:86:LEU:CD2	1:j:424:PRO:CB	2.17	0.98
1:b:464:ALA:CA	1:c:460:ASP:OD2	2.11	0.98
1:c:464:ALA:CA	1:d:460:ASP:OD2	2.12	0.98
1:d:331:GLN:NE2	1:e:335:GLN:CB	2.26	0.98
1:f:449:TRP:HB3	1:g:455:MET:HE1	1.45	0.98
1:h:170:ARG:CD	1:h:177:LEU:HD12	1.93	0.98
1:h:274:GLY:O	1:h:277:ARG:CG	2.11	0.98
1:i:449:TRP:HB3	1:j:455:MET:HE1	1.45	0.98
1:a:147:LEU:HD12	1:a:407:GLN:CD	1.88	0.98
1:e:147:LEU:HD12	1:e:407:GLN:CD	1.87	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:170:ARG:CD	1:g:177:LEU:HD12	1.93	0.98
1:j:135:LYS:O	1:j:138:VAL:HG12	1.62	0.98
1:j:481:ILE:HD12	1:k:466:ILE:CG1	1.87	0.98
1:l:170:ARG:CD	1:l:177:LEU:HD12	1.93	0.98
1:a:397:GLN:HB3	1:a:426:ILE:CD1	1.94	0.98
1:b:274:GLY:O	1:b:277:ARG:CG	2.11	0.98
1:d:126:TYR:O	1:d:129:THR:HG23	1.63	0.98
1:d:446:VAL:HG22	1:e:452:LEU:HD21	0.99	0.98
1:f:135:LYS:O	1:f:138:VAL:HG12	1.62	0.98
1:f:170:ARG:CD	1:f:177:LEU:HD12	1.93	0.98
1:f:254:ILE:HG12	1:f:395:GLU:HB3	1.44	0.98
1:j:354:PHE:O	1:j:357:MET:CE	2.11	0.98
1:l:147:LEU:HD12	1:l:407:GLN:CD	1.88	0.98
1:a:293:SER:HB2	1:b:284:GLU:OE2	1.64	0.98
1:a:335:GLN:HB3	1:l:331:GLN:NE2	1.79	0.98
1:b:367:GLU:O	1:c:373:GLU:OE2	1.81	0.98
1:c:126:TYR:O	1:c:129:THR:HG23	1.63	0.98
1:c:254:ILE:HG12	1:c:395:GLU:HB3	1.43	0.98
1:g:246:LYS:HA	1:g:246:LYS:HE3	1.46	0.98
1:h:334:LYS:H	1:h:334:LYS:HD2	1.29	0.98
1:l:246:LYS:HA	1:l:246:LYS:HE3	1.46	0.98
1:e:126:TYR:O	1:e:129:THR:HG23	1.64	0.98
1:f:274:GLY:O	1:f:277:ARG:CG	2.11	0.98
1:f:480:GLY:HA3	1:g:465:MET:HG2	1.44	0.98
1:h:147:LEU:HD12	1:h:407:GLN:CD	1.88	0.98
1:h:397:GLN:HB3	1:h:426:ILE:CD1	1.94	0.98
1:j:142:ASN:HA	1:j:166:TYR:OH	1.64	0.98
1:k:246:LYS:HE3	1:k:246:LYS:HA	1.46	0.98
1:d:135:LYS:O	1:d:138:VAL:HG12	1.62	0.97
1:e:83:TRP:HD1	1:e:118:MET:HE1	1.26	0.97
1:e:170:ARG:CD	1:e:177:LEU:HD12	1.93	0.97
1:g:331:GLN:NE2	1:h:335:GLN:HB3	1.77	0.97
1:j:397:GLN:HB3	1:j:426:ILE:CD1	1.94	0.97
1:k:359:ASN:CG	1:l:380:GLU:HB3	1.88	0.97
1:k:397:GLN:HB3	1:k:426:ILE:CD1	1.94	0.97
1:b:126:TYR:O	1:b:129:THR:HG23	1.64	0.97
1:b:359:ASN:CG	1:c:380:GLU:HB3	1.87	0.97
1:b:397:GLN:CB	1:b:426:ILE:HD13	1.95	0.97
1:c:331:GLN:NE2	1:d:335:GLN:HB3	1.79	0.97
1:d:293:SER:HB2	1:e:284:GLU:OE2	1.65	0.97
1:e:86:LEU:CD2	1:e:424:PRO:CB	2.17	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:83:TRP:HD1	1:f:118:MET:HE1	1.26	0.97
1:f:246:LYS:HA	1:f:246:LYS:HE3	1.46	0.97
1:h:254:ILE:HD11	1:h:396:LEU:HD22	1.46	0.97
1:i:254:ILE:HD11	1:i:396:LEU:HD22	1.46	0.97
1:i:334:LYS:H	1:i:334:LYS:HD2	1.29	0.97
1:a:170:ARG:CD	1:a:177:LEU:HD12	1.94	0.97
1:f:126:TYR:O	1:f:129:THR:HG23	1.64	0.97
1:g:334:LYS:H	1:g:334:LYS:HD2	1.29	0.97
1:g:397:GLN:HB3	1:g:426:ILE:CD1	1.94	0.97
1:j:398:LEU:CG	1:j:402:ARG:NH2	2.28	0.97
1:a:254:ILE:HG12	1:a:395:GLU:HB3	1.44	0.97
1:b:397:GLN:HB3	1:b:426:ILE:CD1	1.94	0.97
1:e:398:LEU:CG	1:e:402:ARG:NH2	2.28	0.97
1:f:398:LEU:CG	1:f:402:ARG:NH2	2.28	0.97
1:f:481:ILE:HD12	1:g:466:ILE:CD1	1.93	0.97
1:g:126:TYR:O	1:g:129:THR:HG23	1.63	0.97
1:g:398:LEU:CG	1:g:402:ARG:NH2	2.28	0.97
1:h:246:LYS:HA	1:h:246:LYS:HE3	1.46	0.97
1:i:142:ASN:HA	1:i:166:TYR:OH	1.64	0.97
1:k:142:ASN:HA	1:k:166:TYR:OH	1.64	0.97
1:k:398:LEU:CG	1:k:402:ARG:NH2	2.28	0.97
1:a:246:LYS:HA	1:a:246:LYS:HE3	1.46	0.97
1:b:135:LYS:O	1:b:138:VAL:HG12	1.62	0.97
1:b:331:GLN:NE2	1:c:335:GLN:HB3	1.78	0.97
1:d:80:MET:HE1	1:d:122:GLU:OE2	1.65	0.97
1:e:226:TYR:HB2	1:e:244:TYR:HB2	1.47	0.97
1:e:397:GLN:CB	1:e:426:ILE:HD13	1.95	0.97
1:h:398:LEU:CG	1:h:402:ARG:NH2	2.28	0.97
1:i:274:GLY:O	1:i:277:ARG:CG	2.11	0.97
1:j:293:SER:HB2	1:k:284:GLU:OE2	1.64	0.97
1:k:481:ILE:HD12	1:l:466:ILE:CG1	1.86	0.97
1:l:59:GLN:NE2	1:l:278:SER:CB	2.28	0.97
1:l:142:ASN:HA	1:l:166:TYR:OH	1.64	0.97
1:a:336:ALA:HB3	1:l:335:GLN:HE22	1.28	0.97
1:b:170:ARG:CD	1:b:177:LEU:HD12	1.93	0.97
1:c:80:MET:HE1	1:c:122:GLU:OE2	1.65	0.97
1:d:398:LEU:CG	1:d:402:ARG:NH2	2.28	0.97
1:f:226:TYR:HB2	1:f:244:TYR:HB2	1.47	0.97
1:g:147:LEU:HD12	1:g:407:GLN:CD	1.88	0.97
1:g:254:ILE:HG12	1:g:395:GLU:HB3	1.43	0.97
1:h:397:GLN:CB	1:h:426:ILE:HD13	1.95	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:398:LEU:CG	1:i:402:ARG:NH2	2.28	0.97
1:j:254:ILE:HD11	1:j:396:LEU:HD22	1.46	0.97
1:j:335:GLN:HE22	1:k:336:ALA:HB3	1.28	0.97
1:j:481:ILE:HD11	1:k:466:ILE:CG1	1.83	0.97
1:k:397:GLN:CB	1:k:426:ILE:HD13	1.95	0.97
1:a:449:TRP:HB3	1:b:455:MET:HE1	1.44	0.97
1:d:159:LYS:HE2	1:d:161:TYR:HE1	1.27	0.97
1:d:162:ARG:NH1	1:e:259:LEU:CD2	2.26	0.97
1:d:170:ARG:CD	1:d:177:LEU:HD12	1.93	0.97
1:d:226:TYR:HB2	1:d:244:TYR:HB2	1.47	0.97
1:e:293:SER:HB2	1:f:284:GLU:OE2	1.64	0.97
1:e:397:GLN:HB3	1:e:426:ILE:CD1	1.94	0.97
1:g:464:ALA:HA	1:h:460:ASP:OD2	1.63	0.97
1:i:335:GLN:HE22	1:j:336:ALA:HB3	1.29	0.97
1:i:359:ASN:CG	1:j:380:GLU:CD	2.31	0.97
1:i:397:GLN:CB	1:i:426:ILE:HD13	1.95	0.97
1:j:80:MET:HE1	1:j:122:GLU:OE2	1.65	0.97
1:j:246:LYS:HA	1:j:246:LYS:HE3	1.47	0.97
1:j:331:GLN:NE2	1:k:335:GLN:HB3	1.80	0.97
1:j:334:LYS:HD2	1:j:334:LYS:H	1.29	0.97
1:k:293:SER:HB2	1:l:284:GLU:OE2	1.63	0.97
1:l:398:LEU:CG	1:l:402:ARG:NH2	2.28	0.97
1:a:59:GLN:NE2	1:a:278:SER:CB	2.28	0.97
1:b:59:GLN:NE2	1:b:278:SER:CB	2.28	0.97
1:d:397:GLN:HB3	1:d:426:ILE:CD1	1.94	0.97
1:f:147:LEU:HD12	1:f:407:GLN:CD	1.88	0.97
1:f:397:GLN:CB	1:f:426:ILE:HD13	1.95	0.97
1:g:254:ILE:HD11	1:g:396:LEU:HD22	1.46	0.97
1:h:126:TYR:O	1:h:129:THR:HG23	1.64	0.97
1:h:293:SER:HB2	1:i:284:GLU:OE2	1.64	0.97
1:a:126:TYR:O	1:a:129:THR:HG23	1.64	0.97
1:a:274:GLY:O	1:a:277:ARG:CG	2.11	0.97
1:a:331:GLN:NE2	1:b:335:GLN:HB3	1.80	0.97
1:c:293:SER:HB2	1:d:284:GLU:OE2	1.65	0.97
1:c:398:LEU:CG	1:c:402:ARG:NH2	2.28	0.97
1:i:80:MET:HE1	1:i:122:GLU:OE2	1.65	0.97
1:i:126:TYR:O	1:i:129:THR:HG23	1.63	0.97
1:k:59:GLN:NE2	1:k:278:SER:CB	2.28	0.97
1:a:398:LEU:CG	1:a:402:ARG:NH2	2.28	0.97
1:e:80:MET:HE1	1:e:122:GLU:OE2	1.65	0.97
1:h:254:ILE:HG12	1:h:395:GLU:HB3	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:331:GLN:HE22	1:i:335:GLN:CG	1.77	0.97
1:i:135:LYS:O	1:i:138:VAL:HG12	1.62	0.97
1:i:246:LYS:HA	1:i:246:LYS:HE3	1.47	0.97
1:j:481:ILE:HD12	1:k:466:ILE:CD1	1.94	0.97
1:k:254:ILE:HD11	1:k:396:LEU:HD22	1.46	0.97
1:a:284:GLU:OE2	1:l:293:SER:HB2	1.65	0.96
1:b:398:LEU:CG	1:b:402:ARG:NH2	2.28	0.96
1:c:59:GLN:NE2	1:c:278:SER:CB	2.28	0.96
1:c:397:GLN:CB	1:c:426:ILE:HD13	1.95	0.96
1:d:59:GLN:NE2	1:d:278:SER:CB	2.28	0.96
1:d:323:ARG:HG3	1:d:324:PRO:CD	1.95	0.96
1:d:354:PHE:O	1:d:357:MET:CE	2.12	0.96
1:e:246:LYS:HA	1:e:246:LYS:HE3	1.46	0.96
1:e:331:GLN:HE22	1:f:335:GLN:CG	1.76	0.96
1:g:142:ASN:HA	1:g:166:TYR:OH	1.64	0.96
1:g:226:TYR:HB2	1:g:244:TYR:HB2	1.47	0.96
1:j:59:GLN:NE2	1:j:278:SER:CB	2.28	0.96
1:j:323:ARG:HG3	1:j:324:PRO:CD	1.95	0.96
1:k:277:ARG:HH21	1:k:344:VAL:HG13	1.29	0.96
1:a:357:MET:CE	1:a:381:LEU:CG	2.43	0.96
1:b:254:ILE:HG12	1:b:395:GLU:HB3	1.43	0.96
1:b:331:GLN:HE22	1:c:335:GLN:CG	1.77	0.96
1:c:323:ARG:HG3	1:c:324:PRO:CD	1.95	0.96
1:d:39:ILE:CD1	1:d:42:LEU:HD23	1.96	0.96
1:e:39:ILE:CD1	1:e:42:LEU:HD23	1.96	0.96
1:g:331:GLN:HE22	1:h:335:GLN:CG	1.78	0.96
1:k:481:ILE:HD12	1:l:466:ILE:CD1	1.95	0.96
1:l:397:GLN:CB	1:l:426:ILE:HD13	1.95	0.96
1:a:323:ARG:HG3	1:a:324:PRO:CD	1.96	0.96
1:c:367:GLU:O	1:d:373:GLU:OE2	1.82	0.96
1:k:331:GLN:NE2	1:l:335:GLN:HB3	1.77	0.96
1:k:359:ASN:HB3	1:l:380:GLU:OE1	1.65	0.96
1:l:126:TYR:O	1:l:129:THR:HG23	1.64	0.96
1:l:397:GLN:HB3	1:l:426:ILE:CD1	1.94	0.96
1:a:397:GLN:CB	1:a:426:ILE:HD13	1.95	0.96
1:d:367:GLU:O	1:e:373:GLU:OE2	1.81	0.96
1:e:142:ASN:HA	1:e:166:TYR:OH	1.64	0.96
1:e:159:LYS:HE2	1:e:161:TYR:HE1	1.27	0.96
1:f:39:ILE:CD1	1:f:42:LEU:HD23	1.96	0.96
1:f:254:ILE:HD11	1:f:396:LEU:HD22	1.46	0.96
1:f:334:LYS:H	1:f:334:LYS:HD2	1.29	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:397:GLN:HB3	1:i:426:ILE:CD1	1.94	0.96
1:l:323:ARG:HG3	1:l:324:PRO:CD	1.95	0.96
1:d:335:GLN:HE22	1:e:336:ALA:HB3	1.31	0.96
1:f:159:LYS:HE2	1:f:161:TYR:HE1	1.27	0.96
1:h:80:MET:HE1	1:h:122:GLU:OE2	1.65	0.96
1:k:80:MET:HE1	1:k:122:GLU:OE2	1.65	0.96
1:b:80:MET:HE1	1:b:122:GLU:OE2	1.65	0.96
1:b:246:LYS:HA	1:b:246:LYS:HE3	1.46	0.96
1:b:464:ALA:HA	1:c:460:ASP:OD2	1.64	0.96
1:c:39:ILE:CD1	1:c:42:LEU:HD23	1.96	0.96
1:c:170:ARG:CD	1:c:177:LEU:HD12	1.93	0.96
1:f:80:MET:HE1	1:f:122:GLU:OE2	1.65	0.96
1:f:335:GLN:HE22	1:g:336:ALA:HB3	1.31	0.96
1:h:481:ILE:HD12	1:i:466:ILE:CG1	1.87	0.96
1:i:59:GLN:NE2	1:i:278:SER:CB	2.28	0.96
1:j:126:TYR:O	1:j:129:THR:HG23	1.63	0.96
1:b:159:LYS:HE2	1:b:161:TYR:HE1	1.27	0.96
1:c:397:GLN:HB3	1:c:426:ILE:CD1	1.94	0.96
1:g:39:ILE:CD1	1:g:42:LEU:HD23	1.95	0.96
1:k:449:TRP:HB3	1:l:455:MET:HE1	1.48	0.96
1:a:335:GLN:HE22	1:b:336:ALA:HB3	1.29	0.96
1:a:460:ASP:OD2	1:l:464:ALA:HA	1.65	0.96
1:d:246:LYS:HA	1:d:246:LYS:HE3	1.46	0.96
1:d:397:GLN:CB	1:d:426:ILE:HD13	1.95	0.96
1:e:59:GLN:NE2	1:e:278:SER:CB	2.28	0.96
1:f:323:ARG:HG3	1:f:324:PRO:CD	1.96	0.96
1:g:227:LEU:HA	1:g:242:GLY:O	1.66	0.96
1:g:323:ARG:HG3	1:g:324:PRO:CD	1.95	0.96
1:i:293:SER:HB2	1:j:284:GLU:OE2	1.64	0.96
1:j:331:GLN:HE22	1:k:335:GLN:CG	1.78	0.96
1:k:126:TYR:O	1:k:129:THR:HG23	1.64	0.96
1:a:367:GLU:O	1:b:373:GLU:OE2	1.84	0.96
1:b:359:ASN:HB3	1:c:380:GLU:OE1	1.66	0.96
1:c:226:TYR:HB2	1:c:244:TYR:HB2	1.47	0.96
1:c:227:LEU:HA	1:c:242:GLY:O	1.66	0.96
1:c:359:ASN:CG	1:d:380:GLU:CD	2.31	0.96
1:d:142:ASN:HA	1:d:166:TYR:OH	1.64	0.96
1:f:293:SER:HB2	1:g:284:GLU:OE2	1.65	0.96
1:g:111:SER:O	1:g:115:ARG:N	1.99	0.96
1:h:39:ILE:CD1	1:h:42:LEU:HD23	1.95	0.96
1:h:449:TRP:HB3	1:i:455:MET:HE1	1.48	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:323:ARG:HG3	1:i:324:PRO:CD	1.95	0.96
1:b:111:SER:O	1:b:115:ARG:N	1.99	0.96
1:c:142:ASN:HA	1:c:166:TYR:OH	1.64	0.96
1:g:80:MET:HE1	1:g:122:GLU:OE2	1.65	0.96
1:h:142:ASN:HA	1:h:166:TYR:OH	1.64	0.96
1:k:331:GLN:HE22	1:l:335:GLN:CG	1.78	0.96
1:k:334:LYS:H	1:k:334:LYS:HD2	1.29	0.96
1:b:39:ILE:CD1	1:b:42:LEU:HD23	1.96	0.95
1:c:331:GLN:HE22	1:d:335:GLN:CG	1.78	0.95
1:d:17:TYR:CE2	1:d:182:ARG:HD3	2.01	0.95
1:e:227:LEU:HA	1:e:242:GLY:O	1.66	0.95
1:g:397:GLN:CB	1:g:426:ILE:HD13	1.95	0.95
1:i:111:SER:O	1:i:115:ARG:N	1.99	0.95
1:l:227:LEU:HA	1:l:242:GLY:O	1.66	0.95
1:l:254:ILE:HD11	1:l:396:LEU:HD22	1.46	0.95
1:a:455:MET:HE1	1:l:449:TRP:HB3	1.46	0.95
1:b:293:SER:HB2	1:c:284:GLU:OE2	1.64	0.95
1:f:397:GLN:HB3	1:f:426:ILE:CD1	1.94	0.95
1:g:80:MET:SD	1:g:122:GLU:HG3	2.06	0.95
1:i:39:ILE:CD1	1:i:42:LEU:HD23	1.96	0.95
1:j:39:ILE:CD1	1:j:42:LEU:HD23	1.96	0.95
1:k:39:ILE:CD1	1:k:42:LEU:HD23	1.96	0.95
1:l:111:SER:O	1:l:115:ARG:N	1.99	0.95
1:a:227:LEU:HA	1:a:242:GLY:O	1.66	0.95
1:a:357:MET:HE2	1:a:381:LEU:HD11	1.47	0.95
1:b:142:ASN:HA	1:b:166:TYR:OH	1.64	0.95
1:f:56:THR:HG21	1:g:273:LEU:HD12	1.47	0.95
1:g:83:TRP:HD1	1:g:118:MET:HE1	1.26	0.95
1:h:359:ASN:CG	1:i:380:GLU:HB3	1.92	0.95
1:i:277:ARG:HH21	1:i:344:VAL:HG13	1.29	0.95
1:j:277:ARG:HH21	1:j:344:VAL:HG13	1.30	0.95
1:k:323:ARG:HG3	1:k:324:PRO:CD	1.95	0.95
1:l:83:TRP:HD1	1:l:118:MET:HE1	1.26	0.95
1:l:277:ARG:HH21	1:l:344:VAL:HG13	1.30	0.95
1:a:17:TYR:CE2	1:a:182:ARG:HD3	2.02	0.95
1:a:277:ARG:HH21	1:a:344:VAL:HG13	1.29	0.95
1:c:246:LYS:HE3	1:c:246:LYS:HA	1.46	0.95
1:c:449:TRP:HB3	1:d:455:MET:HE1	1.46	0.95
1:e:254:ILE:HD11	1:e:396:LEU:HD22	1.46	0.95
1:g:17:TYR:CE2	1:g:182:ARG:HD3	2.02	0.95
1:g:367:GLU:O	1:h:373:GLU:OE2	1.84	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:397:GLN:CB	1:j:426:ILE:HD13	1.95	0.95
1:j:449:TRP:HB3	1:k:455:MET:HE1	1.46	0.95
1:l:39:ILE:CD1	1:l:42:LEU:HD23	1.95	0.95
1:l:159:LYS:HE2	1:l:161:TYR:HE1	1.27	0.95
1:b:449:TRP:HB3	1:c:455:MET:HE1	1.48	0.95
1:e:80:MET:SD	1:e:122:GLU:HG3	2.07	0.95
1:f:17:TYR:CE2	1:f:182:ARG:HD3	2.02	0.95
1:h:59:GLN:NE2	1:h:278:SER:CB	2.28	0.95
1:i:227:LEU:HA	1:i:242:GLY:O	1.66	0.95
1:i:446:VAL:HG22	1:j:452:LEU:HD21	0.96	0.95
1:k:159:LYS:HE2	1:k:161:TYR:HE1	1.27	0.95
1:a:464:ALA:CA	1:b:460:ASP:OD2	2.14	0.95
1:b:227:LEU:HA	1:b:242:GLY:O	1.66	0.95
1:c:80:MET:SD	1:c:122:GLU:HG3	2.07	0.95
1:e:111:SER:O	1:e:115:ARG:N	1.99	0.95
1:g:147:LEU:H	1:g:147:LEU:HD22	1.31	0.95
1:h:226:TYR:HB2	1:h:244:TYR:HB2	1.47	0.95
1:i:56:THR:HG21	1:j:273:LEU:HD12	1.46	0.95
1:i:147:LEU:HD22	1:i:147:LEU:H	1.32	0.95
1:i:464:ALA:CA	1:j:460:ASP:OD2	2.14	0.95
1:j:147:LEU:H	1:j:147:LEU:HD22	1.31	0.95
1:j:227:LEU:HA	1:j:242:GLY:O	1.66	0.95
1:b:323:ARG:HG3	1:b:324:PRO:CD	1.95	0.95
1:c:83:TRP:HD1	1:c:118:MET:HE1	1.25	0.95
1:e:282:LEU:HD21	1:f:277:ARG:CZ	1.96	0.95
1:e:481:ILE:HD11	1:f:466:ILE:CD1	1.73	0.95
1:i:17:TYR:CE2	1:i:182:ARG:HD3	2.01	0.95
1:i:159:LYS:HE2	1:i:161:TYR:HE1	1.27	0.95
1:j:17:TYR:CE2	1:j:182:ARG:HD3	2.02	0.95
1:k:111:SER:O	1:k:115:ARG:N	1.99	0.95
1:a:254:ILE:HD11	1:a:396:LEU:HD22	1.47	0.95
1:a:446:VAL:HG22	1:b:452:LEU:HD21	0.96	0.95
1:c:480:GLY:HA2	1:d:465:MET:HG2	1.48	0.95
1:d:111:SER:O	1:d:115:ARG:N	1.99	0.95
1:f:59:GLN:NE2	1:f:278:SER:CB	2.28	0.95
1:f:60:ALA:HB2	1:g:274:GLY:CA	1.96	0.95
1:f:227:LEU:HA	1:f:242:GLY:O	1.66	0.95
1:i:60:ALA:HB2	1:j:274:GLY:CA	1.96	0.95
1:i:80:MET:SD	1:i:122:GLU:HG3	2.06	0.95
1:i:331:GLN:NE2	1:j:335:GLN:HB3	1.81	0.95
1:j:80:MET:SD	1:j:122:GLU:HG3	2.07	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:464:ALA:CA	1:k:460:ASP:OD2	2.14	0.95
1:k:227:LEU:HA	1:k:242:GLY:O	1.66	0.95
1:a:39:ILE:CD1	1:a:42:LEU:HD23	1.96	0.95
1:a:128:VAL:CG2	1:b:258:ARG:HH12	1.80	0.95
1:a:258:ARG:HH12	1:l:128:VAL:CG2	1.80	0.95
1:c:111:SER:O	1:c:115:ARG:N	1.99	0.95
1:d:227:LEU:HA	1:d:242:GLY:O	1.66	0.95
1:d:254:ILE:HD11	1:d:396:LEU:HD22	1.46	0.95
1:h:80:MET:SD	1:h:122:GLU:HG3	2.07	0.95
1:h:147:LEU:H	1:h:147:LEU:HD22	1.32	0.95
1:h:159:LYS:HE2	1:h:161:TYR:HE1	1.27	0.95
1:a:111:SER:O	1:a:115:ARG:N	1.99	0.95
1:a:159:LYS:HE2	1:a:161:TYR:HE1	1.27	0.95
1:b:254:ILE:HD11	1:b:396:LEU:HD22	1.46	0.95
1:b:368:ARG:HA	1:c:373:GLU:OE2	1.66	0.95
1:d:68:ASN:HD22	1:d:358:LEU:CD2	1.78	0.95
1:e:334:LYS:H	1:e:334:LYS:HD2	1.29	0.95
1:e:359:ASN:HB3	1:f:380:GLU:OE1	1.65	0.95
1:f:354:PHE:O	1:f:357:MET:CE	2.15	0.95
1:c:60:ALA:HB2	1:d:274:GLY:CA	1.96	0.94
1:c:254:ILE:HD11	1:c:396:LEU:HD22	1.46	0.94
1:d:80:MET:SD	1:d:122:GLU:HG3	2.07	0.94
1:g:159:LYS:HE2	1:g:161:TYR:HE1	1.27	0.94
1:j:68:ASN:HD22	1:j:358:LEU:CD2	1.79	0.94
1:j:159:LYS:HE2	1:j:161:TYR:HE1	1.27	0.94
1:a:27:TYR:CD2	1:a:264:TYR:O	2.20	0.94
1:b:80:MET:SD	1:b:122:GLU:HG3	2.07	0.94
1:d:480:GLY:HA2	1:e:465:MET:HG2	1.50	0.94
1:e:323:ARG:HG3	1:e:324:PRO:CD	1.95	0.94
1:j:27:TYR:CD2	1:j:264:TYR:O	2.20	0.94
1:k:80:MET:SD	1:k:122:GLU:HG3	2.07	0.94
1:l:80:MET:SD	1:l:122:GLU:HG3	2.07	0.94
1:a:60:ALA:HB2	1:b:274:GLY:CA	1.97	0.94
1:a:406:LYS:HA	1:a:406:LYS:NZ	1.83	0.94
1:b:406:LYS:HA	1:b:406:LYS:NZ	1.82	0.94
1:c:27:TYR:CD2	1:c:264:TYR:O	2.20	0.94
1:e:17:TYR:CE2	1:e:182:ARG:HD3	2.02	0.94
1:e:277:ARG:HH21	1:e:344:VAL:HG13	1.30	0.94
1:e:449:TRP:HB3	1:f:455:MET:HE1	1.49	0.94
1:f:277:ARG:HH21	1:f:344:VAL:HG13	1.30	0.94
1:f:406:LYS:HA	1:f:406:LYS:NZ	1.83	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:59:GLN:NE2	1:g:278:SER:CB	2.28	0.94
1:j:111:SER:O	1:j:115:ARG:N	1.99	0.94
1:a:80:MET:HE1	1:a:122:GLU:OE2	1.65	0.94
1:a:274:GLY:CA	1:l:60:ALA:HB2	1.97	0.94
1:b:17:TYR:CE2	1:b:182:ARG:HD3	2.02	0.94
1:g:59:GLN:CD	1:g:279:LEU:N	2.22	0.94
1:g:449:TRP:HB3	1:h:455:MET:HE1	1.47	0.94
1:h:323:ARG:HG3	1:h:324:PRO:CD	1.95	0.94
1:i:354:PHE:O	1:i:357:MET:CE	2.15	0.94
1:k:226:TYR:HB2	1:k:244:TYR:HB2	1.47	0.94
1:l:80:MET:HE1	1:l:122:GLU:OE2	1.65	0.94
1:a:371:ALA:O	1:a:372:GLU:C	2.02	0.94
1:b:128:VAL:CG2	1:c:258:ARG:HH12	1.80	0.94
1:c:354:PHE:O	1:c:357:MET:CE	2.15	0.94
1:e:128:VAL:CG2	1:f:258:ARG:HH12	1.79	0.94
1:f:359:ASN:CG	1:g:380:GLU:CD	2.33	0.94
1:j:257:VAL:CG2	1:j:267:SER:HB2	1.98	0.94
1:k:147:LEU:HD22	1:k:147:LEU:H	1.32	0.94
1:a:142:ASN:HA	1:a:166:TYR:OH	1.64	0.94
1:f:111:SER:O	1:f:115:ARG:N	1.99	0.94
1:h:111:SER:O	1:h:115:ARG:N	1.99	0.94
1:h:277:ARG:HH21	1:h:344:VAL:HG13	1.30	0.94
1:l:334:LYS:H	1:l:334:LYS:HD2	1.29	0.94
1:a:17:TYR:HB2	1:a:180:VAL:HG11	0.94	0.94
1:a:55:GLN:N	1:a:55:GLN:OE1	2.00	0.94
1:a:369:VAL:HA	1:a:370:THR:HB	1.49	0.94
1:e:128:VAL:HG12	1:f:390:SER:HG	1.28	0.94
1:g:277:ARG:HH21	1:g:344:VAL:HG13	1.30	0.94
1:h:406:LYS:NZ	1:h:406:LYS:HA	1.82	0.94
1:i:331:GLN:HE22	1:j:335:GLN:CG	1.80	0.94
1:j:446:VAL:HG22	1:k:452:LEU:HD21	0.95	0.94
1:a:257:VAL:CG2	1:a:267:SER:HB2	1.98	0.94
1:a:335:GLN:CG	1:l:331:GLN:HE22	1.78	0.94
1:b:60:ALA:HB2	1:c:274:GLY:CA	1.98	0.94
1:c:464:ALA:HA	1:d:460:ASP:OD2	1.66	0.94
1:d:27:TYR:CD2	1:d:264:TYR:O	2.20	0.94
1:d:277:ARG:HH21	1:d:344:VAL:HG13	1.30	0.94
1:d:449:TRP:HB3	1:e:455:MET:HE1	1.44	0.94
1:e:27:TYR:CD2	1:e:264:TYR:O	2.21	0.94
1:g:406:LYS:HA	1:g:406:LYS:NZ	1.82	0.94
1:g:480:GLY:HA2	1:h:465:MET:HG2	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:83:TRP:HD1	1:h:118:MET:HE1	1.26	0.94
1:k:480:GLY:CA	1:l:465:MET:CG	2.46	0.94
1:l:226:TYR:HB2	1:l:244:TYR:HB2	1.47	0.94
1:b:17:TYR:HB2	1:b:180:VAL:HG11	0.94	0.94
1:b:282:LEU:HD21	1:c:277:ARG:CZ	1.98	0.94
1:b:370:THR:O	1:b:374:ILE:N	1.99	0.94
1:d:83:TRP:HD1	1:d:118:MET:HE1	1.26	0.94
1:f:80:MET:SD	1:f:122:GLU:HG3	2.07	0.94
1:f:142:ASN:HA	1:f:166:TYR:OH	1.64	0.94
1:g:128:VAL:CG2	1:h:258:ARG:HH12	1.79	0.94
1:h:60:ALA:HB2	1:i:274:GLY:CA	1.98	0.94
1:h:128:VAL:CG2	1:i:258:ARG:HH12	1.79	0.94
1:i:406:LYS:HA	1:i:406:LYS:NZ	1.83	0.94
1:l:257:VAL:CG2	1:l:267:SER:HB2	1.98	0.94
1:a:331:GLN:HE22	1:b:335:GLN:CG	1.80	0.94
1:b:226:TYR:HB2	1:b:244:TYR:HB2	1.47	0.94
1:e:147:LEU:H	1:e:147:LEU:HD22	1.32	0.94
1:f:27:TYR:CD2	1:f:264:TYR:O	2.21	0.94
1:k:27:TYR:CD2	1:k:264:TYR:O	2.20	0.94
1:k:128:VAL:CG2	1:l:258:ARG:HH12	1.80	0.94
1:l:27:TYR:CD2	1:l:264:TYR:O	2.21	0.94
1:h:17:TYR:CE2	1:h:182:ARG:HD3	2.02	0.93
1:j:226:TYR:HB2	1:j:244:TYR:HB2	1.47	0.93
1:j:406:LYS:HA	1:j:406:LYS:NZ	1.82	0.93
1:l:17:TYR:HB2	1:l:180:VAL:HG11	0.94	0.93
1:a:80:MET:SD	1:a:122:GLU:HG3	2.07	0.93
1:a:452:LEU:HD21	1:l:446:VAL:HG22	0.94	0.93
1:c:480:GLY:HA3	1:d:465:MET:CG	1.98	0.93
1:e:406:LYS:HA	1:e:406:LYS:NZ	1.83	0.93
1:h:227:LEU:HA	1:h:242:GLY:O	1.66	0.93
1:h:282:LEU:HD21	1:i:277:ARG:CZ	1.97	0.93
1:h:367:GLU:O	1:i:373:GLU:OE2	1.86	0.93
1:k:17:TYR:CE2	1:k:182:ARG:HD3	2.02	0.93
1:a:464:ALA:HA	1:b:460:ASP:OD2	1.68	0.93
1:c:17:TYR:HB2	1:c:180:VAL:HG11	0.94	0.93
1:d:418:PRO:HA	1:d:419:LYS:HE3	1.51	0.93
1:f:331:GLN:NE2	1:g:335:GLN:HB3	1.82	0.93
1:g:60:ALA:HB2	1:h:274:GLY:CA	1.98	0.93
1:g:368:ARG:O	1:g:370:THR:CB	2.16	0.93
1:h:293:SER:C	1:i:288:LYS:HB2	1.94	0.93
1:h:396:LEU:C	1:h:399:PRO:HD2	1.94	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:480:GLY:CA	1:i:465:MET:CG	2.46	0.93
1:j:368:ARG:O	1:j:370:THR:CB	2.16	0.93
1:a:370:THR:OG1	1:b:373:GLU:OE1	1.87	0.93
1:a:396:LEU:C	1:a:399:PRO:HD2	1.94	0.93
1:c:128:VAL:CG2	1:d:258:ARG:HH12	1.79	0.93
1:c:396:LEU:C	1:c:399:PRO:HD2	1.94	0.93
1:c:418:PRO:HA	1:c:419:LYS:HE3	1.51	0.93
1:d:60:ALA:HB2	1:e:274:GLY:CA	1.97	0.93
1:e:396:LEU:C	1:e:399:PRO:HD2	1.94	0.93
1:e:418:PRO:HA	1:e:419:LYS:HE3	1.51	0.93
1:f:59:GLN:CD	1:f:279:LEU:N	2.22	0.93
1:h:27:TYR:CD2	1:h:264:TYR:O	2.21	0.93
1:h:368:ARG:O	1:h:370:THR:CB	2.16	0.93
1:i:27:TYR:CD2	1:i:264:TYR:O	2.20	0.93
1:j:60:ALA:HB2	1:k:274:GLY:CA	1.97	0.93
1:k:396:LEU:C	1:k:399:PRO:HD2	1.94	0.93
1:l:17:TYR:CE2	1:l:182:ARG:HD3	2.02	0.93
1:a:226:TYR:HB2	1:a:244:TYR:HB2	1.47	0.93
1:f:128:VAL:CG2	1:g:258:ARG:HH12	1.80	0.93
1:g:282:LEU:HD21	1:h:277:ARG:CZ	1.97	0.93
1:i:128:VAL:CG2	1:j:258:ARG:HH12	1.80	0.93
1:l:406:LYS:HA	1:l:406:LYS:NZ	1.83	0.93
1:a:358:LEU:HD22	1:a:359:ASN:N	1.83	0.93
1:b:277:ARG:HH21	1:b:344:VAL:HG13	1.30	0.93
1:d:300:VAL:CB	1:d:327:ILE:HG22	1.94	0.93
1:d:334:LYS:H	1:d:334:LYS:HD2	1.29	0.93
1:f:147:LEU:HD22	1:f:147:LEU:H	1.32	0.93
1:g:27:TYR:CD2	1:g:264:TYR:O	2.21	0.93
1:g:68:ASN:HD22	1:g:358:LEU:CD2	1.82	0.93
1:g:257:VAL:CG2	1:g:267:SER:HB2	1.98	0.93
1:i:83:TRP:HD1	1:i:118:MET:HE1	1.26	0.93
1:i:257:VAL:CG2	1:i:267:SER:HB2	1.98	0.93
1:l:147:LEU:HD22	1:l:147:LEU:H	1.32	0.93
1:e:481:ILE:HD12	1:f:466:ILE:CD1	1.96	0.93
1:f:396:LEU:C	1:f:399:PRO:HD2	1.94	0.93
1:i:464:ALA:HA	1:j:460:ASP:OD2	1.68	0.93
1:k:17:TYR:CE2	1:k:182:ARG:HD2	2.04	0.93
1:k:480:GLY:HA2	1:l:465:MET:HG2	1.49	0.93
1:c:396:LEU:O	1:c:399:PRO:HD2	1.69	0.93
1:c:406:LYS:HA	1:c:406:LYS:NZ	1.83	0.93
1:g:39:ILE:CD1	1:g:42:LEU:CD2	2.47	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:39:ILE:CD1	1:h:42:LEU:CD2	2.47	0.93
1:i:480:GLY:CA	1:j:465:MET:CG	2.47	0.93
1:j:464:ALA:HA	1:k:460:ASP:OD2	1.67	0.93
1:k:17:TYR:HB2	1:k:180:VAL:HG11	0.94	0.93
1:a:480:GLY:HA2	1:b:465:MET:HG2	1.49	0.93
1:d:464:ALA:CA	1:e:460:ASP:OD2	2.16	0.93
1:e:396:LEU:O	1:e:399:PRO:HD2	1.69	0.93
1:j:128:VAL:CG2	1:k:258:ARG:HH12	1.80	0.93
1:a:464:ALA:HB1	1:b:460:ASP:OD2	1.69	0.93
1:a:480:GLY:CA	1:b:465:MET:CG	2.47	0.93
1:c:17:TYR:CE2	1:c:182:ARG:HD3	2.02	0.93
1:c:132:GLU:CD	1:d:257:VAL:O	2.12	0.93
1:c:277:ARG:HH21	1:c:344:VAL:HG13	1.30	0.93
1:d:331:GLN:NE2	1:e:335:GLN:HB3	1.82	0.93
1:e:480:GLY:HA3	1:f:465:MET:CG	1.99	0.93
1:f:396:LEU:O	1:f:399:PRO:HD2	1.69	0.93
1:f:480:GLY:HA2	1:g:465:MET:HG2	1.49	0.93
1:j:39:ILE:CD1	1:j:42:LEU:CD2	2.47	0.93
1:j:396:LEU:C	1:j:399:PRO:HD2	1.94	0.93
1:l:396:LEU:C	1:l:399:PRO:HD2	1.94	0.93
1:a:460:ASP:OD2	1:l:464:ALA:HB1	1.69	0.92
1:b:27:TYR:CD2	1:b:264:TYR:O	2.21	0.92
1:b:293:SER:C	1:c:288:LYS:HB2	1.94	0.92
1:b:418:PRO:HA	1:b:419:LYS:HE3	1.51	0.92
1:c:282:LEU:HD21	1:d:277:ARG:CZ	1.99	0.92
1:c:446:VAL:HG22	1:d:452:LEU:HD21	0.94	0.92
1:e:293:SER:C	1:f:288:LYS:HB2	1.93	0.92
1:f:17:TYR:HB2	1:f:180:VAL:HG11	0.94	0.92
1:f:39:ILE:CD1	1:f:42:LEU:CD2	2.47	0.92
1:f:314:ALA:HB1	1:f:318:ASP:HB2	1.52	0.92
1:f:331:GLN:HE22	1:g:335:GLN:CG	1.81	0.92
1:i:39:ILE:CD1	1:i:42:LEU:CD2	2.47	0.92
1:a:17:TYR:CE2	1:a:182:ARG:HD2	2.04	0.92
1:a:334:LYS:H	1:a:334:LYS:HD2	1.29	0.92
1:a:480:GLY:HA3	1:b:465:MET:CG	1.99	0.92
1:h:396:LEU:O	1:h:399:PRO:HD2	1.69	0.92
1:i:441:LYS:O	1:i:474:ILE:HG21	1.70	0.92
1:k:282:LEU:HD21	1:l:277:ARG:CZ	1.98	0.92
1:k:441:LYS:O	1:k:474:ILE:HG21	1.70	0.92
1:k:480:GLY:HA3	1:l:465:MET:CG	1.98	0.92
1:a:396:LEU:O	1:a:399:PRO:HD2	1.69	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:465:MET:CG	1:l:480:GLY:CA	2.47	0.92
1:c:39:ILE:CD1	1:c:42:LEU:CD2	2.47	0.92
1:d:396:LEU:O	1:d:399:PRO:HD2	1.69	0.92
1:f:418:PRO:HA	1:f:419:LYS:HE3	1.51	0.92
1:h:17:TYR:HB2	1:h:180:VAL:HG11	0.94	0.92
1:h:257:VAL:CG2	1:h:267:SER:HB2	1.98	0.92
1:h:314:ALA:HB1	1:h:318:ASP:HB2	1.52	0.92
1:h:464:ALA:HB1	1:i:460:ASP:OD2	1.70	0.92
1:k:39:ILE:CD1	1:k:42:LEU:CD2	2.47	0.92
1:k:406:LYS:HA	1:k:406:LYS:NZ	1.83	0.92
1:b:481:ILE:HD12	1:c:466:ILE:CG1	1.87	0.92
1:d:331:GLN:HE22	1:e:335:GLN:CG	1.81	0.92
1:d:396:LEU:C	1:d:399:PRO:HD2	1.94	0.92
1:d:406:LYS:HA	1:d:406:LYS:NZ	1.83	0.92
1:f:128:VAL:HG12	1:g:390:SER:HG	1.34	0.92
1:i:17:TYR:HB2	1:i:180:VAL:HG11	0.94	0.92
1:i:132:GLU:CD	1:j:257:VAL:O	2.13	0.92
1:i:226:TYR:HB2	1:i:244:TYR:HB2	1.47	0.92
1:i:300:VAL:CG1	1:i:327:ILE:CG2	2.08	0.92
1:k:60:ALA:HB2	1:l:274:GLY:CA	1.98	0.92
1:a:128:VAL:HG12	1:b:390:SER:HG	1.30	0.92
1:a:147:LEU:HD22	1:a:147:LEU:H	1.32	0.92
1:a:282:LEU:HD21	1:b:277:ARG:CZ	1.99	0.92
1:b:300:VAL:CB	1:b:327:ILE:HG22	1.94	0.92
1:d:17:TYR:HB2	1:d:180:VAL:HG11	0.94	0.92
1:e:17:TYR:HB2	1:e:180:VAL:HG11	0.94	0.92
1:e:314:ALA:HB1	1:e:318:ASP:HB2	1.52	0.92
1:g:17:TYR:HB2	1:g:180:VAL:HG11	0.94	0.92
1:g:314:ALA:HB1	1:g:318:ASP:HB2	1.52	0.92
1:h:132:GLU:CD	1:i:257:VAL:O	2.13	0.92
1:i:300:VAL:CB	1:i:327:ILE:HG22	1.94	0.92
1:i:314:ALA:HB1	1:i:318:ASP:HB2	1.52	0.92
1:j:83:TRP:HD1	1:j:118:MET:HE1	1.26	0.92
1:l:17:TYR:CE2	1:l:182:ARG:HD2	2.04	0.92
1:b:441:LYS:O	1:b:474:ILE:HG21	1.70	0.92
1:b:446:VAL:HG22	1:c:452:LEU:HD21	0.93	0.92
1:c:334:LYS:H	1:c:334:LYS:HD2	1.29	0.92
1:d:128:VAL:CG2	1:e:258:ARG:HH12	1.80	0.92
1:f:17:TYR:CE2	1:f:182:ARG:HD2	2.04	0.92
1:f:68:ASN:ND2	1:f:358:LEU:HD22	1.85	0.92
1:i:464:ALA:HB1	1:j:460:ASP:OD2	1.69	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:17:TYR:CE2	1:j:182:ARG:HD2	2.04	0.92
1:k:396:LEU:O	1:k:399:PRO:HD2	1.69	0.92
1:l:408:LEU:HB3	1:l:414:ILE:HG12	0.93	0.92
1:l:441:LYS:O	1:l:474:ILE:HG21	1.70	0.92
1:a:39:ILE:CD1	1:a:42:LEU:CD2	2.47	0.92
1:a:416:GLU:HB3	1:a:419:LYS:CE	2.00	0.92
1:b:396:LEU:C	1:b:399:PRO:HD2	1.94	0.92
1:d:140:ALA:HB2	1:d:267:SER:H	1.35	0.92
1:e:140:ALA:HB2	1:e:267:SER:H	1.35	0.92
1:f:464:ALA:CA	1:g:460:ASP:OD2	2.17	0.92
1:g:396:LEU:O	1:g:399:PRO:HD2	1.69	0.92
1:j:396:LEU:O	1:j:399:PRO:HD2	1.69	0.92
1:l:396:LEU:O	1:l:399:PRO:HD2	1.69	0.92
1:a:373:GLU:OE2	1:l:367:GLU:O	1.88	0.92
1:a:408:LEU:HB3	1:a:414:ILE:HG12	0.92	0.92
1:c:359:ASN:HD21	1:d:380:GLU:HB3	1.30	0.92
1:c:480:GLY:CA	1:d:465:MET:CG	2.46	0.92
1:d:17:TYR:CE2	1:d:182:ARG:HD2	2.04	0.92
1:e:39:ILE:CG2	1:e:63:ALA:HB1	2.00	0.92
1:g:17:TYR:CE2	1:g:182:ARG:HD2	2.04	0.92
1:g:293:SER:C	1:h:288:LYS:HB2	1.95	0.92
1:g:396:LEU:C	1:g:399:PRO:HD2	1.94	0.92
1:g:480:GLY:CA	1:h:465:MET:CG	2.47	0.92
1:h:480:GLY:HA3	1:i:465:MET:CG	1.98	0.92
1:k:293:SER:C	1:l:288:LYS:HB2	1.95	0.92
1:k:416:GLU:HB3	1:k:419:LYS:CE	2.00	0.92
1:a:288:LYS:HB2	1:l:293:SER:C	1.95	0.92
1:a:418:PRO:HA	1:a:419:LYS:HE3	1.51	0.92
1:a:465:MET:CG	1:l:480:GLY:HA3	1.99	0.92
1:b:480:GLY:CA	1:c:465:MET:CG	2.47	0.92
1:f:140:ALA:HB2	1:f:267:SER:H	1.35	0.92
1:f:367:GLU:O	1:g:373:GLU:OE2	1.87	0.92
1:g:441:LYS:O	1:g:474:ILE:HG21	1.70	0.92
1:k:39:ILE:CG2	1:k:63:ALA:HB1	2.00	0.92
1:l:15:SER:CB	1:l:216:HIS:CD2	2.53	0.92
1:b:39:ILE:CD1	1:b:42:LEU:CD2	2.47	0.92
1:b:39:ILE:CG2	1:b:63:ALA:HB1	2.00	0.92
1:b:132:GLU:CD	1:c:257:VAL:O	2.13	0.92
1:e:39:ILE:CD1	1:e:42:LEU:CD2	2.47	0.92
1:f:15:SER:CB	1:f:216:HIS:CD2	2.53	0.92
1:f:74:MET:SD	1:f:131:PHE:CD2	2.63	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:39:ILE:CG2	1:g:63:ALA:HB1	2.00	0.92
1:g:446:VAL:HG22	1:h:452:LEU:HD21	0.92	0.92
1:j:17:TYR:HB2	1:j:180:VAL:HG11	0.94	0.92
1:j:314:ALA:HB1	1:j:318:ASP:HB2	1.52	0.92
1:j:441:LYS:O	1:j:474:ILE:HG21	1.70	0.92
1:k:257:VAL:CG2	1:k:267:SER:HB2	1.98	0.92
1:k:408:LEU:HB3	1:k:414:ILE:HG12	0.92	0.92
1:l:39:ILE:CD1	1:l:42:LEU:CD2	2.47	0.92
1:a:15:SER:CB	1:a:216:HIS:CD2	2.54	0.91
1:a:277:ARG:CZ	1:l:282:LEU:HD21	1.99	0.91
1:b:408:LEU:HB3	1:b:414:ILE:HG12	0.93	0.91
1:c:257:VAL:CG2	1:c:267:SER:HB2	1.98	0.91
1:d:39:ILE:CD1	1:d:42:LEU:CD2	2.47	0.91
1:d:481:ILE:HD12	1:e:466:ILE:CD1	1.94	0.91
1:e:15:SER:CB	1:e:216:HIS:CD2	2.53	0.91
1:g:418:PRO:HA	1:g:419:LYS:HE3	1.51	0.91
1:h:416:GLU:HB3	1:h:419:LYS:CE	2.00	0.91
1:h:446:VAL:HG22	1:i:452:LEU:HD21	0.92	0.91
1:i:396:LEU:C	1:i:399:PRO:HD2	1.94	0.91
1:i:416:GLU:HB3	1:i:419:LYS:CE	2.00	0.91
1:i:480:GLY:HA3	1:j:465:MET:CG	1.99	0.91
1:j:480:GLY:HA2	1:k:465:MET:HG2	1.50	0.91
1:a:257:VAL:O	1:l:132:GLU:CD	2.13	0.91
1:a:466:ILE:CD1	1:l:481:ILE:HD11	1.74	0.91
1:b:15:SER:CB	1:b:216:HIS:CD2	2.53	0.91
1:d:314:ALA:HB1	1:d:318:ASP:HB2	1.52	0.91
1:g:480:GLY:HA3	1:h:465:MET:CG	1.99	0.91
1:h:39:ILE:CG2	1:h:63:ALA:HB1	2.00	0.91
1:h:128:VAL:HG12	1:i:390:SER:HG	1.26	0.91
1:k:15:SER:CB	1:k:216:HIS:CD2	2.53	0.91
1:a:465:MET:HG2	1:l:480:GLY:HA2	1.48	0.91
1:b:17:TYR:CE2	1:b:182:ARG:HD2	2.04	0.91
1:c:140:ALA:HB2	1:c:267:SER:H	1.35	0.91
1:d:15:SER:CB	1:d:216:HIS:CD2	2.53	0.91
1:e:17:TYR:CE2	1:e:182:ARG:HD2	2.04	0.91
1:e:60:ALA:HB2	1:f:274:GLY:CA	1.99	0.91
1:e:132:GLU:CD	1:f:257:VAL:O	2.13	0.91
1:g:15:SER:CB	1:g:216:HIS:CD2	2.54	0.91
1:g:77:LEU:HD22	1:g:78:PHE:CZ	2.06	0.91
1:h:74:MET:SD	1:h:131:PHE:CD2	2.63	0.91
1:i:368:ARG:O	1:i:370:THR:CB	2.18	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:39:ILE:CG2	1:j:63:ALA:HB1	2.00	0.91
1:j:367:GLU:O	1:k:373:GLU:OE2	1.88	0.91
1:j:408:LEU:HB3	1:j:414:ILE:HG12	0.92	0.91
1:b:147:LEU:H	1:b:147:LEU:HD22	1.32	0.91
1:b:371:ALA:HA	1:b:374:ILE:HB	1.50	0.91
1:b:396:LEU:O	1:b:399:PRO:HD2	1.69	0.91
1:b:416:GLU:HB3	1:b:419:LYS:CE	2.00	0.91
1:c:15:SER:CB	1:c:216:HIS:CD2	2.53	0.91
1:d:257:VAL:CG2	1:d:267:SER:HB2	1.98	0.91
1:e:74:MET:SD	1:e:131:PHE:CD2	2.64	0.91
1:g:140:ALA:HB2	1:g:267:SER:H	1.35	0.91
1:g:300:VAL:CG1	1:g:327:ILE:CG2	2.08	0.91
1:i:17:TYR:CE2	1:i:182:ARG:HD2	2.04	0.91
1:k:80:MET:HE3	1:k:122:GLU:OE2	1.71	0.91
1:a:39:ILE:CG2	1:a:63:ALA:HB1	2.00	0.91
1:d:416:GLU:HB3	1:d:419:LYS:CE	2.00	0.91
1:d:480:GLY:HA3	1:e:465:MET:CG	2.01	0.91
1:e:77:LEU:HD22	1:e:78:PHE:CZ	2.06	0.91
1:e:480:GLY:HA2	1:f:465:MET:HG2	1.49	0.91
1:f:416:GLU:HB3	1:f:419:LYS:CE	2.00	0.91
1:j:416:GLU:HB3	1:j:419:LYS:CE	2.00	0.91
1:l:80:MET:HE3	1:l:122:GLU:OE2	1.70	0.91
1:b:480:GLY:HA3	1:c:465:MET:CG	2.00	0.91
1:c:416:GLU:HB3	1:c:419:LYS:CE	2.00	0.91
1:d:74:MET:SD	1:d:131:PHE:CD2	2.64	0.91
1:d:441:LYS:O	1:d:474:ILE:HG21	1.70	0.91
1:d:464:ALA:HA	1:e:460:ASP:OD2	1.71	0.91
1:e:480:GLY:CA	1:f:465:MET:CG	2.47	0.91
1:f:39:ILE:CG2	1:f:63:ALA:HB1	2.00	0.91
1:i:74:MET:SD	1:i:131:PHE:CD2	2.63	0.91
1:i:480:GLY:HA2	1:j:465:MET:HG2	1.48	0.91
1:a:441:LYS:O	1:a:474:ILE:HG21	1.70	0.91
1:b:334:LYS:HD2	1:b:334:LYS:H	1.29	0.91
1:c:39:ILE:CG2	1:c:63:ALA:HB1	2.00	0.91
1:d:257:VAL:HG21	1:d:267:SER:CB	2.01	0.91
1:e:257:VAL:HG23	1:e:267:SER:HB2	1.52	0.91
1:f:257:VAL:CG2	1:f:267:SER:HB2	1.98	0.91
1:f:480:GLY:HA3	1:g:465:MET:CG	2.01	0.91
1:g:464:ALA:HB1	1:h:460:ASP:OD2	1.70	0.91
1:h:480:GLY:HA2	1:i:465:MET:HG2	1.49	0.91
1:i:408:LEU:HB3	1:i:414:ILE:HG12	0.93	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:128:VAL:CG1	1:k:390:SER:HG	1.76	0.91
1:j:142:ASN:CA	1:j:166:TYR:OH	2.19	0.91
1:k:289:MET:CE	1:l:340:VAL:CB	2.49	0.91
1:k:314:ALA:HB1	1:k:318:ASP:HB2	1.52	0.91
1:b:77:LEU:HD22	1:b:78:PHE:CZ	2.06	0.91
1:d:39:ILE:CG2	1:d:63:ALA:HB1	2.00	0.91
1:e:80:MET:HE3	1:e:122:GLU:OE2	1.70	0.91
1:e:450:ALA:N	1:f:455:MET:CE	2.34	0.91
1:h:15:SER:CB	1:h:216:HIS:CD2	2.53	0.91
1:j:77:LEU:HD22	1:j:78:PHE:CZ	2.06	0.91
1:j:80:MET:HE3	1:j:122:GLU:OE2	1.70	0.91
1:k:132:GLU:CD	1:l:257:VAL:O	2.13	0.91
1:c:17:TYR:CE2	1:c:182:ARG:HD2	2.04	0.91
1:c:128:VAL:HG12	1:d:390:SER:HG	1.30	0.91
1:d:77:LEU:HD22	1:d:78:PHE:CZ	2.06	0.91
1:e:293:SER:CB	1:f:284:GLU:OE2	2.18	0.91
1:e:441:LYS:O	1:e:474:ILE:HG21	1.70	0.91
1:h:17:TYR:CE2	1:h:182:ARG:HD2	2.04	0.91
1:h:359:ASN:HB3	1:i:380:GLU:OE1	1.70	0.91
1:h:418:PRO:HA	1:h:419:LYS:HE3	1.51	0.91
1:i:77:LEU:HD22	1:i:78:PHE:CZ	2.06	0.91
1:i:140:ALA:HB2	1:i:267:SER:H	1.35	0.91
1:i:142:ASN:CA	1:i:166:TYR:OH	2.19	0.91
1:j:289:MET:CE	1:k:340:VAL:CB	2.49	0.91
1:k:83:TRP:HD1	1:k:118:MET:HE1	1.26	0.91
1:l:418:PRO:HA	1:l:419:LYS:HE3	1.51	0.91
1:a:80:MET:HE3	1:a:122:GLU:OE2	1.71	0.91
1:a:442:LEU:CD2	1:a:476:ILE:HD13	2.01	0.91
1:c:68:ASN:ND2	1:c:358:LEU:HD22	1.85	0.91
1:c:74:MET:SD	1:c:131:PHE:CD2	2.64	0.91
1:c:147:LEU:HD22	1:c:147:LEU:H	1.32	0.91
1:c:293:SER:C	1:d:288:LYS:HB2	1.95	0.91
1:c:408:LEU:HB3	1:c:414:ILE:HG12	0.93	0.91
1:d:147:LEU:HD22	1:d:147:LEU:H	1.31	0.91
1:j:74:MET:SD	1:j:131:PHE:CD2	2.63	0.91
1:k:126:TYR:HE1	1:k:158:MET:HB2	1.34	0.91
1:l:314:ALA:HB1	1:l:318:ASP:HB2	1.52	0.91
1:b:142:ASN:CA	1:b:166:TYR:OH	2.19	0.90
1:c:77:LEU:HD22	1:c:78:PHE:CZ	2.06	0.90
1:d:289:MET:CE	1:e:340:VAL:CB	2.48	0.90
1:g:132:GLU:CD	1:h:257:VAL:O	2.14	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:142:ASN:CA	1:g:166:TYR:OH	2.19	0.90
1:h:77:LEU:HD22	1:h:78:PHE:CZ	2.06	0.90
1:h:257:VAL:HG21	1:h:267:SER:CB	2.01	0.90
1:i:68:ASN:ND2	1:i:358:LEU:HD22	1.85	0.90
1:j:15:SER:CB	1:j:216:HIS:CD2	2.53	0.90
1:l:39:ILE:CG2	1:l:63:ALA:HB1	2.00	0.90
1:l:278:SER:HB2	1:l:348:ILE:HG21	1.53	0.90
1:a:314:ALA:HB1	1:a:318:ASP:HB2	1.52	0.90
1:b:140:ALA:HB2	1:b:267:SER:H	1.35	0.90
1:b:257:VAL:CG2	1:b:267:SER:HB2	1.98	0.90
1:b:442:LEU:HD21	1:b:476:ILE:CD1	2.01	0.90
1:d:257:VAL:HG23	1:d:267:SER:HB2	1.52	0.90
1:d:442:LEU:CD2	1:d:476:ILE:HD13	2.01	0.90
1:d:480:GLY:CA	1:e:465:MET:CG	2.49	0.90
1:f:257:VAL:HG21	1:f:267:SER:CB	2.01	0.90
1:f:319:PHE:HE2	1:g:311:LEU:CG	1.84	0.90
1:f:441:LYS:O	1:f:474:ILE:HG21	1.70	0.90
1:g:442:LEU:CD2	1:g:476:ILE:HD13	2.01	0.90
1:h:140:ALA:HB2	1:h:267:SER:H	1.35	0.90
1:i:257:VAL:HG21	1:i:267:SER:CB	2.01	0.90
1:j:126:TYR:HE1	1:j:158:MET:HB2	1.34	0.90
1:k:74:MET:SD	1:k:131:PHE:CD2	2.63	0.90
1:k:293:SER:CB	1:l:284:GLU:OE2	2.18	0.90
1:k:464:ALA:HB1	1:l:460:ASP:OD2	1.70	0.90
1:l:77:LEU:HD22	1:l:78:PHE:CZ	2.06	0.90
1:b:74:MET:SD	1:b:131:PHE:CD2	2.63	0.90
1:b:480:GLY:HA2	1:c:465:MET:HG2	1.49	0.90
1:c:314:ALA:HB1	1:c:318:ASP:HB2	1.52	0.90
1:c:441:LYS:O	1:c:474:ILE:HG21	1.70	0.90
1:c:442:LEU:HD21	1:c:476:ILE:CD1	2.01	0.90
1:c:464:ALA:HB1	1:d:460:ASP:OD2	1.69	0.90
1:d:80:MET:HE3	1:d:122:GLU:OE2	1.70	0.90
1:d:282:LEU:HD21	1:e:277:ARG:CZ	2.02	0.90
1:d:368:ARG:O	1:d:370:THR:CB	2.18	0.90
1:e:464:ALA:HB1	1:f:460:ASP:OD2	1.71	0.90
1:f:80:MET:HE3	1:f:122:GLU:OE2	1.71	0.90
1:f:142:ASN:CA	1:f:166:TYR:OH	2.19	0.90
1:f:442:LEU:CD2	1:f:476:ILE:HD13	2.01	0.90
1:i:418:PRO:HA	1:i:419:LYS:HE3	1.51	0.90
1:j:480:GLY:CA	1:k:465:MET:CG	2.49	0.90
1:k:142:ASN:CA	1:k:166:TYR:OH	2.19	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:74:MET:SD	1:l:131:PHE:CD2	2.63	0.90
1:l:416:GLU:HB3	1:l:419:LYS:CE	2.00	0.90
1:a:74:MET:SD	1:a:131:PHE:CD2	2.64	0.90
1:a:132:GLU:CD	1:b:257:VAL:O	2.14	0.90
1:b:257:VAL:HG23	1:b:267:SER:HB2	1.52	0.90
1:b:289:MET:CE	1:c:340:VAL:CB	2.49	0.90
1:d:126:TYR:HE1	1:d:158:MET:HB2	1.34	0.90
1:e:290:SER:C	1:f:284:GLU:HG3	1.97	0.90
1:f:282:LEU:HD21	1:g:277:ARG:CZ	2.00	0.90
1:h:293:SER:CB	1:i:284:GLU:OE2	2.19	0.90
1:i:60:ALA:CB	1:j:274:GLY:HA3	2.02	0.90
1:i:396:LEU:O	1:i:399:PRO:HD2	1.69	0.90
1:i:442:LEU:CD2	1:i:476:ILE:HD13	2.01	0.90
1:j:418:PRO:HA	1:j:419:LYS:HE3	1.51	0.90
1:k:128:VAL:HG12	1:l:390:SER:HG	1.36	0.90
1:k:418:PRO:HA	1:k:419:LYS:HE3	1.51	0.90
1:k:442:LEU:CD2	1:k:476:ILE:HD13	2.02	0.90
1:k:446:VAL:HG22	1:l:452:LEU:HD21	0.92	0.90
1:a:278:SER:HB2	1:a:348:ILE:HG21	1.53	0.90
1:d:55:GLN:N	1:d:55:GLN:OE1	2.05	0.90
1:g:300:VAL:CB	1:g:327:ILE:HG22	1.94	0.90
1:i:39:ILE:CG2	1:i:63:ALA:HB1	2.00	0.90
1:j:282:LEU:HD21	1:k:277:ARG:CZ	2.00	0.90
1:a:257:VAL:HG21	1:a:267:SER:CB	2.01	0.90
1:a:293:SER:C	1:b:288:LYS:HB2	1.97	0.90
1:f:480:GLY:CA	1:g:465:MET:CG	2.49	0.90
1:g:293:SER:CB	1:h:284:GLU:OE2	2.19	0.90
1:i:282:LEU:HD21	1:j:277:ARG:CZ	1.99	0.90
1:i:293:SER:C	1:j:288:LYS:HB2	1.97	0.90
1:j:132:GLU:CD	1:k:257:VAL:O	2.15	0.90
1:a:142:ASN:CA	1:a:166:TYR:OH	2.19	0.90
1:b:314:ALA:HB1	1:b:318:ASP:HB2	1.52	0.90
1:b:331:GLN:HE22	1:c:335:GLN:HG3	1.36	0.90
1:d:474:ILE:O	1:d:476:ILE:N	2.05	0.90
1:e:331:GLN:HE22	1:f:335:GLN:HG3	1.37	0.90
1:g:416:GLU:HB3	1:g:419:LYS:CE	2.00	0.90
1:i:289:MET:CE	1:j:340:VAL:CB	2.50	0.90
1:i:293:SER:CB	1:j:284:GLU:OE2	2.20	0.90
1:i:367:GLU:O	1:j:373:GLU:OE2	1.90	0.90
1:k:257:VAL:HG23	1:k:267:SER:HB2	1.52	0.90
1:l:300:VAL:CB	1:l:327:ILE:HG22	1.94	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:474:ILE:O	1:l:476:ILE:N	2.05	0.90
1:b:257:VAL:HG21	1:b:267:SER:CB	2.01	0.90
1:c:278:SER:HB2	1:c:348:ILE:HG21	1.53	0.90
1:f:300:VAL:HG12	1:f:327:ILE:CB	2.02	0.90
1:g:80:MET:HE3	1:g:122:GLU:OE2	1.70	0.90
1:h:408:LEU:HB3	1:h:414:ILE:HG12	0.92	0.90
1:a:289:MET:CE	1:b:340:VAL:CB	2.50	0.90
1:b:442:LEU:CD2	1:b:476:ILE:HD13	2.01	0.90
1:c:442:LEU:CD2	1:c:476:ILE:HD13	2.01	0.90
1:e:128:VAL:HG11	1:f:394:GLN:HG2	1.53	0.90
1:e:416:GLU:HB3	1:e:419:LYS:CE	2.00	0.90
1:f:368:ARG:O	1:f:370:THR:CB	2.19	0.90
1:h:441:LYS:O	1:h:474:ILE:HG21	1.70	0.90
1:j:293:SER:C	1:k:288:LYS:HB2	1.96	0.90
1:b:319:PHE:HE2	1:c:311:LEU:CG	1.85	0.90
1:d:142:ASN:CA	1:d:166:TYR:OH	2.19	0.90
1:e:446:VAL:HG22	1:f:452:LEU:HD21	0.90	0.90
1:f:77:LEU:HD22	1:f:78:PHE:CZ	2.06	0.90
1:g:128:VAL:HG11	1:h:394:GLN:HG2	1.54	0.90
1:g:359:ASN:HD21	1:h:380:GLU:HB3	1.36	0.90
1:h:142:ASN:CA	1:h:166:TYR:OH	2.19	0.90
1:h:289:MET:CE	1:i:340:VAL:CB	2.49	0.90
1:i:15:SER:CB	1:i:216:HIS:CD2	2.54	0.90
1:k:257:VAL:HG21	1:k:267:SER:CB	2.01	0.90
1:l:142:ASN:CA	1:l:166:TYR:OH	2.19	0.90
1:a:77:LEU:HD22	1:a:78:PHE:CZ	2.06	0.89
1:a:257:VAL:HG23	1:a:267:SER:HB2	1.52	0.89
1:a:268:TYR:C	1:a:270:GLU:N	2.30	0.89
1:c:257:VAL:HG21	1:c:267:SER:CB	2.01	0.89
1:c:474:ILE:O	1:c:476:ILE:N	2.05	0.89
1:d:39:ILE:HD12	1:d:42:LEU:CD2	2.03	0.89
1:d:408:LEU:HB3	1:d:414:ILE:HG12	0.93	0.89
1:f:289:MET:CE	1:g:340:VAL:CB	2.49	0.89
1:h:300:VAL:HG12	1:h:327:ILE:CB	2.02	0.89
1:h:474:ILE:O	1:h:476:ILE:N	2.05	0.89
1:i:78:PHE:CZ	1:i:130:LEU:HD13	2.08	0.89
1:k:474:ILE:O	1:k:476:ILE:N	2.05	0.89
1:l:126:TYR:HE1	1:l:158:MET:HB2	1.34	0.89
1:l:442:LEU:HD21	1:l:476:ILE:CD1	2.02	0.89
1:l:442:LEU:CD2	1:l:476:ILE:HD13	2.01	0.89
1:a:78:PHE:CZ	1:a:130:LEU:HD13	2.08	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:254:ILE:HD11	1:a:396:LEU:HD21	1.53	0.89
1:b:39:ILE:HD12	1:b:42:LEU:CD2	2.02	0.89
1:b:80:MET:HE3	1:b:122:GLU:OE2	1.71	0.89
1:e:442:LEU:HD21	1:e:476:ILE:CD1	2.02	0.89
1:e:442:LEU:CD2	1:e:476:ILE:HD13	2.01	0.89
1:f:132:GLU:CD	1:g:257:VAL:O	2.14	0.89
1:f:442:LEU:HD21	1:f:476:ILE:CD1	2.02	0.89
1:g:474:ILE:O	1:g:476:ILE:N	2.05	0.89
1:h:450:ALA:N	1:i:455:MET:CE	2.35	0.89
1:i:80:MET:HE3	1:i:122:GLU:OE2	1.70	0.89
1:k:77:LEU:HD22	1:k:78:PHE:CZ	2.06	0.89
1:a:140:ALA:HB2	1:a:267:SER:H	1.35	0.89
1:a:293:SER:CB	1:b:284:GLU:OE2	2.20	0.89
1:c:142:ASN:CA	1:c:166:TYR:OH	2.19	0.89
1:d:268:TYR:CD1	1:d:269:ILE:N	2.41	0.89
1:d:464:ALA:HB1	1:e:460:ASP:OD2	1.69	0.89
1:e:257:VAL:CG2	1:e:267:SER:HB2	1.98	0.89
1:f:359:ASN:HD21	1:g:380:GLU:HB3	1.31	0.89
1:i:474:ILE:O	1:i:476:ILE:N	2.05	0.89
1:j:278:SER:HB2	1:j:348:ILE:HG21	1.53	0.89
1:k:78:PHE:CZ	1:k:130:LEU:HD13	2.08	0.89
1:k:442:LEU:HD21	1:k:476:ILE:CD1	2.02	0.89
1:a:340:VAL:CB	1:l:289:MET:CE	2.50	0.89
1:a:474:ILE:O	1:a:476:ILE:N	2.05	0.89
1:b:464:ALA:HB1	1:c:460:ASP:OD2	1.71	0.89
1:c:268:TYR:CD1	1:c:269:ILE:N	2.41	0.89
1:c:319:PHE:HE2	1:d:311:LEU:CG	1.85	0.89
1:e:142:ASN:CA	1:e:166:TYR:OH	2.19	0.89
1:e:159:LYS:HE2	1:e:161:TYR:CE1	2.08	0.89
1:e:268:TYR:CD1	1:e:269:ILE:N	2.41	0.89
1:j:359:ASN:HD21	1:k:380:GLU:HB3	1.36	0.89
1:a:284:GLU:OE2	1:l:293:SER:CB	2.20	0.89
1:a:300:VAL:HG12	1:a:327:ILE:CB	2.02	0.89
1:b:254:ILE:HD11	1:b:396:LEU:HD21	1.54	0.89
1:c:80:MET:HE3	1:c:122:GLU:OE2	1.70	0.89
1:d:319:PHE:HE2	1:e:311:LEU:CG	1.84	0.89
1:e:474:ILE:O	1:e:476:ILE:N	2.05	0.89
1:g:257:VAL:HG21	1:g:267:SER:CB	2.01	0.89
1:h:128:VAL:HG11	1:i:394:GLN:HG2	1.53	0.89
1:k:140:ALA:HB2	1:k:267:SER:H	1.35	0.89
1:l:268:TYR:C	1:l:270:GLU:N	2.30	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:39:ILE:HD12	1:a:42:LEU:CD2	2.02	0.89
1:c:293:SER:CB	1:d:284:GLU:OE2	2.20	0.89
1:d:300:VAL:HG12	1:d:327:ILE:CB	2.02	0.89
1:d:442:LEU:HD21	1:d:476:ILE:CD1	2.02	0.89
1:e:126:TYR:HE1	1:e:158:MET:HB2	1.34	0.89
1:f:464:ALA:HA	1:g:460:ASP:OD2	1.71	0.89
1:g:126:TYR:HE1	1:g:158:MET:HB2	1.34	0.89
1:g:249:CYS:SG	1:g:407:GLN:CG	2.61	0.89
1:g:408:LEU:HB3	1:g:414:ILE:HG12	0.92	0.89
1:h:290:SER:C	1:i:284:GLU:HG3	1.98	0.89
1:j:60:ALA:CB	1:k:274:GLY:HA3	2.03	0.89
1:k:481:ILE:CD1	1:l:466:ILE:HG12	1.91	0.89
1:a:442:LEU:HD21	1:a:476:ILE:CD1	2.01	0.89
1:b:293:SER:CB	1:c:284:GLU:OE2	2.20	0.89
1:c:60:ALA:CB	1:d:274:GLY:HA3	2.02	0.89
1:d:132:GLU:CD	1:e:257:VAL:O	2.15	0.89
1:f:268:TYR:CD1	1:f:269:ILE:N	2.41	0.89
1:g:159:LYS:HE2	1:g:161:TYR:CE1	2.08	0.89
1:g:278:SER:HB2	1:g:348:ILE:HG21	1.53	0.89
1:g:450:ALA:N	1:h:455:MET:CE	2.36	0.89
1:h:268:TYR:C	1:h:270:GLU:N	2.30	0.89
1:j:480:GLY:HA3	1:k:465:MET:CG	2.01	0.89
1:l:59:GLN:CD	1:l:279:LEU:N	2.22	0.89
1:c:159:LYS:HE2	1:c:161:TYR:CE1	2.08	0.89
1:d:246:LYS:HA	1:d:246:LYS:CE	2.02	0.89
1:j:268:TYR:CD1	1:j:269:ILE:N	2.41	0.89
1:k:59:GLN:CD	1:k:279:LEU:N	2.22	0.89
1:k:289:MET:CE	1:l:340:VAL:HG12	2.02	0.89
1:a:289:MET:CE	1:b:340:VAL:HG12	2.03	0.89
1:f:39:ILE:HD12	1:f:42:LEU:CD2	2.02	0.89
1:g:300:VAL:HG12	1:g:327:ILE:CB	2.02	0.89
1:h:80:MET:HE3	1:h:122:GLU:OE2	1.71	0.89
1:i:300:VAL:HG12	1:i:327:ILE:CB	2.02	0.89
1:j:319:PHE:HE2	1:k:311:LEU:CG	1.85	0.89
1:j:464:ALA:HB1	1:k:460:ASP:OD2	1.70	0.89
1:a:59:GLN:CD	1:a:279:LEU:N	2.22	0.89
1:b:249:CYS:SG	1:b:407:GLN:CG	2.61	0.89
1:b:268:TYR:CD1	1:b:269:ILE:N	2.41	0.89
1:c:254:ILE:HD11	1:c:396:LEU:HD21	1.53	0.89
1:e:162:ARG:CD	1:f:260:ASP:OD2	2.21	0.89
1:e:249:CYS:SG	1:e:407:GLN:CG	2.61	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:278:SER:HB2	1:f:348:ILE:HG21	1.53	0.89
1:f:474:ILE:O	1:f:476:ILE:N	2.05	0.89
1:g:254:ILE:HD11	1:g:396:LEU:HD21	1.53	0.89
1:i:80:MET:HB2	1:i:127:ARG:CZ	2.03	0.89
1:k:128:VAL:HG11	1:l:394:GLN:HG2	1.53	0.89
1:k:268:TYR:CD1	1:k:269:ILE:N	2.41	0.89
1:k:300:VAL:HG12	1:k:327:ILE:CB	2.02	0.89
1:c:331:GLN:HE22	1:d:335:GLN:HG3	1.37	0.88
1:d:289:MET:CE	1:e:340:VAL:HG12	2.03	0.88
1:g:290:SER:C	1:h:284:GLU:HG3	1.98	0.88
1:h:60:ALA:CB	1:i:274:GLY:HA3	2.03	0.88
1:j:257:VAL:HG21	1:j:267:SER:CB	2.01	0.88
1:k:39:ILE:HD12	1:k:42:LEU:CD2	2.03	0.88
1:k:249:CYS:SG	1:k:407:GLN:CG	2.61	0.88
1:l:249:CYS:SG	1:l:407:GLN:CG	2.61	0.88
1:l:254:ILE:HD11	1:l:396:LEU:HD21	1.54	0.88
1:b:278:SER:HB2	1:b:348:ILE:HG21	1.53	0.88
1:e:39:ILE:HD12	1:e:42:LEU:CD2	2.03	0.88
1:e:289:MET:CE	1:f:340:VAL:HG12	2.03	0.88
1:e:368:ARG:O	1:e:370:THR:CB	2.20	0.88
1:e:476:ILE:HD11	1:f:469:ARG:HH11	1.37	0.88
1:f:254:ILE:HD11	1:f:396:LEU:HD21	1.54	0.88
1:f:293:SER:CB	1:g:284:GLU:OE2	2.21	0.88
1:g:39:ILE:HD12	1:g:42:LEU:CD2	2.02	0.88
1:i:126:TYR:HE1	1:i:158:MET:HB2	1.34	0.88
1:i:278:SER:HB2	1:i:348:ILE:HG21	1.53	0.88
1:j:255:ARG:H	1:j:395:GLU:CG	1.87	0.88
1:j:293:SER:CB	1:k:284:GLU:OE2	2.21	0.88
1:j:474:ILE:O	1:j:476:ILE:N	2.05	0.88
1:k:290:SER:C	1:l:284:GLU:HG3	1.98	0.88
1:k:397:GLN:CB	1:k:426:ILE:CD1	2.51	0.88
1:b:159:LYS:HE2	1:b:161:TYR:CE1	2.08	0.88
1:f:293:SER:C	1:g:288:LYS:HB2	1.98	0.88
1:f:408:LEU:HB3	1:f:414:ILE:HG12	0.92	0.88
1:g:268:TYR:CD1	1:g:269:ILE:N	2.41	0.88
1:h:255:ARG:H	1:h:395:GLU:CG	1.86	0.88
1:h:278:SER:HB2	1:h:348:ILE:HG21	1.53	0.88
1:h:442:LEU:HD21	1:h:476:ILE:CD1	2.01	0.88
1:i:268:TYR:CD1	1:i:269:ILE:N	2.41	0.88
1:i:359:ASN:HD21	1:j:380:GLU:HB3	1.31	0.88
1:j:80:MET:HB2	1:j:127:ARG:CZ	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:382:GLU:OE2	1:k:389:TYR:CE2	2.27	0.88
1:l:39:ILE:HD12	1:l:42:LEU:CD2	2.02	0.88
1:l:159:LYS:HE2	1:l:161:TYR:CE1	2.08	0.88
1:a:335:GLN:HG3	1:l:331:GLN:HE22	1.38	0.88
1:b:59:GLN:CD	1:b:279:LEU:N	2.22	0.88
1:d:249:CYS:SG	1:d:407:GLN:CG	2.61	0.88
1:f:257:VAL:HG23	1:f:267:SER:HB2	1.52	0.88
1:g:162:ARG:CD	1:h:260:ASP:OD2	2.22	0.88
1:h:80:MET:HB2	1:h:127:ARG:CZ	2.03	0.88
1:i:249:CYS:SG	1:i:407:GLN:CG	2.61	0.88
1:j:319:PHE:HE2	1:k:311:LEU:CB	1.87	0.88
1:j:382:GLU:OE2	1:j:389:TYR:CE2	2.27	0.88
1:k:268:TYR:C	1:k:270:GLU:N	2.30	0.88
1:k:278:SER:HB2	1:k:348:ILE:HG21	1.53	0.88
1:l:140:ALA:HB2	1:l:267:SER:H	1.35	0.88
1:a:80:MET:HB2	1:a:127:ARG:CZ	2.03	0.88
1:b:300:VAL:HG12	1:b:327:ILE:CB	2.02	0.88
1:b:474:ILE:O	1:b:476:ILE:N	2.05	0.88
1:c:39:ILE:HD12	1:c:42:LEU:CD2	2.03	0.88
1:d:159:LYS:HE2	1:d:161:TYR:CE1	2.08	0.88
1:d:268:TYR:C	1:d:270:GLU:N	2.30	0.88
1:d:398:LEU:O	1:d:402:ARG:HB2	1.74	0.88
1:f:60:ALA:CB	1:g:274:GLY:HA3	2.01	0.88
1:f:382:GLU:OE2	1:f:389:TYR:CE2	2.27	0.88
1:h:159:LYS:HE2	1:h:161:TYR:CE1	2.08	0.88
1:h:162:ARG:CD	1:i:260:ASP:OD2	2.22	0.88
1:i:442:LEU:HD21	1:i:476:ILE:CD1	2.02	0.88
1:k:246:LYS:HA	1:k:246:LYS:CE	2.02	0.88
1:l:255:ARG:H	1:l:395:GLU:CG	1.87	0.88
1:l:268:TYR:CD1	1:l:269:ILE:N	2.41	0.88
1:a:249:CYS:SG	1:a:407:GLN:CG	2.61	0.88
1:a:311:LEU:CG	1:l:319:PHE:HE2	1.86	0.88
1:a:394:GLN:HG2	1:l:128:VAL:HG11	1.54	0.88
1:c:78:PHE:CZ	1:c:130:LEU:HD13	2.08	0.88
1:c:257:VAL:HG23	1:c:267:SER:HB2	1.52	0.88
1:c:289:MET:CE	1:d:340:VAL:HG12	2.04	0.88
1:e:254:ILE:HD11	1:e:396:LEU:HD21	1.53	0.88
1:e:300:VAL:HG12	1:e:327:ILE:CB	2.02	0.88
1:e:408:LEU:HB3	1:e:414:ILE:HG12	0.93	0.88
1:e:481:ILE:HD12	1:f:466:ILE:CG1	1.88	0.88
1:f:159:LYS:HE2	1:f:161:TYR:CE1	2.08	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:464:ALA:HB1	1:g:460:ASP:OD2	1.70	0.88
1:g:255:ARG:H	1:g:395:GLU:CG	1.87	0.88
1:h:289:MET:CE	1:i:340:VAL:HG12	2.03	0.88
1:i:319:PHE:HE2	1:j:311:LEU:CG	1.85	0.88
1:j:140:ALA:HB2	1:j:267:SER:H	1.35	0.88
1:k:476:ILE:HD11	1:l:469:ARG:NH1	1.89	0.88
1:c:398:LEU:O	1:c:402:ARG:HB2	1.74	0.88
1:e:255:ARG:H	1:e:395:GLU:CG	1.87	0.88
1:e:398:LEU:O	1:e:402:ARG:HB2	1.74	0.88
1:e:476:ILE:CD1	1:f:469:ARG:HH11	1.87	0.88
1:e:476:ILE:HD11	1:f:469:ARG:NH1	1.87	0.88
1:g:289:MET:CE	1:h:340:VAL:CB	2.50	0.88
1:h:319:PHE:HE2	1:i:311:LEU:CB	1.87	0.88
1:i:319:PHE:HE2	1:j:311:LEU:CB	1.87	0.88
1:i:382:GLU:OE2	1:i:389:TYR:CE2	2.27	0.88
1:j:398:LEU:HD12	1:j:402:ARG:CZ	2.04	0.88
1:k:450:ALA:N	1:l:455:MET:CE	2.35	0.88
1:a:128:VAL:HG11	1:b:394:GLN:HG2	1.55	0.88
1:a:159:LYS:HE2	1:a:161:TYR:CE1	2.08	0.88
1:a:268:TYR:CD1	1:a:269:ILE:N	2.41	0.88
1:a:398:LEU:O	1:a:402:ARG:HB2	1.74	0.88
1:b:398:LEU:O	1:b:402:ARG:HB2	1.74	0.88
1:c:300:VAL:HG12	1:c:327:ILE:CB	2.02	0.88
1:d:398:LEU:HD12	1:d:402:ARG:CZ	2.04	0.88
1:e:268:TYR:C	1:e:270:GLU:N	2.30	0.88
1:f:289:MET:CE	1:g:340:VAL:HG12	2.04	0.88
1:g:398:LEU:HD12	1:g:402:ARG:CZ	2.04	0.88
1:h:268:TYR:CD1	1:h:269:ILE:N	2.41	0.88
1:h:331:GLN:HE22	1:i:335:GLN:HG3	1.37	0.88
1:i:39:ILE:HD12	1:i:42:LEU:CD2	2.03	0.88
1:i:159:LYS:HE2	1:i:161:TYR:CE1	2.08	0.88
1:j:159:LYS:HE2	1:j:161:TYR:CE1	2.08	0.88
1:k:476:ILE:HD11	1:l:469:ARG:HH11	1.39	0.88
1:c:289:MET:CE	1:d:340:VAL:CB	2.50	0.88
1:d:382:GLU:OE2	1:d:389:TYR:CE2	2.27	0.88
1:e:80:MET:HB2	1:e:127:ARG:CZ	2.03	0.88
1:e:278:SER:HB2	1:e:348:ILE:HG21	1.53	0.88
1:f:249:CYS:SG	1:f:407:GLN:CG	2.61	0.88
1:g:78:PHE:CZ	1:g:130:LEU:HD13	2.08	0.88
1:g:382:GLU:OE2	1:g:389:TYR:CE2	2.27	0.88
1:g:442:LEU:HD21	1:g:476:ILE:CD1	2.02	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:333:GLU:OE1	1:i:333:GLU:N	2.07	0.88
1:j:249:CYS:SG	1:j:407:GLN:CG	2.61	0.88
1:l:398:LEU:O	1:l:402:ARG:HB2	1.74	0.88
1:b:60:ALA:CB	1:c:274:GLY:HA3	2.03	0.88
1:b:80:MET:HB2	1:b:127:ARG:CZ	2.04	0.88
1:b:255:ARG:H	1:b:395:GLU:CG	1.87	0.88
1:b:397:GLN:CB	1:b:426:ILE:CD1	2.51	0.88
1:c:249:CYS:SG	1:c:407:GLN:CG	2.61	0.88
1:c:359:ASN:CG	1:d:380:GLU:HB3	1.99	0.88
1:c:397:GLN:CB	1:c:426:ILE:CD1	2.51	0.88
1:d:60:ALA:CB	1:e:274:GLY:HA3	2.02	0.88
1:d:397:GLN:CB	1:d:426:ILE:CD1	2.51	0.88
1:e:257:VAL:HG21	1:e:267:SER:CB	2.01	0.88
1:g:80:MET:HB2	1:g:127:ARG:CZ	2.03	0.88
1:g:257:VAL:HG23	1:g:267:SER:HB2	1.52	0.88
1:g:289:MET:CE	1:h:340:VAL:HG12	2.02	0.88
1:g:333:GLU:OE1	1:g:333:GLU:N	2.07	0.88
1:g:359:ASN:HB3	1:h:380:GLU:OE1	1.74	0.88
1:g:476:ILE:HD11	1:h:469:ARG:HH11	1.39	0.88
1:h:39:ILE:HD12	1:h:42:LEU:CD2	2.03	0.88
1:h:268:TYR:C	1:h:270:GLU:H	1.82	0.88
1:i:442:LEU:HD22	1:i:476:ILE:HG21	1.56	0.88
1:j:300:VAL:HG12	1:j:327:ILE:CB	2.02	0.88
1:k:367:GLU:O	1:l:373:GLU:OE2	1.92	0.88
1:a:17:TYR:CB	1:a:180:VAL:CG1	2.45	0.87
1:a:60:ALA:CB	1:b:274:GLY:HA3	2.03	0.87
1:b:476:ILE:HD11	1:c:469:ARG:NH1	1.89	0.87
1:c:268:TYR:C	1:c:270:GLU:N	2.30	0.87
1:c:290:SER:C	1:d:284:GLU:HG3	1.99	0.87
1:d:278:SER:HB2	1:d:348:ILE:HG21	1.53	0.87
1:d:293:SER:CB	1:e:284:GLU:OE2	2.21	0.87
1:f:37:TYR:CE2	1:f:276:LEU:HD13	2.09	0.87
1:f:255:ARG:H	1:f:395:GLU:CG	1.87	0.87
1:h:249:CYS:SG	1:h:407:GLN:CG	2.61	0.87
1:h:254:ILE:HD11	1:h:396:LEU:HD21	1.53	0.87
1:h:257:VAL:HG23	1:h:267:SER:HB2	1.52	0.87
1:j:442:LEU:HD21	1:j:476:ILE:CD1	2.01	0.87
1:l:300:VAL:HG12	1:l:327:ILE:CB	2.02	0.87
1:a:398:LEU:HD12	1:a:402:ARG:CZ	2.04	0.87
1:b:290:SER:C	1:c:284:GLU:HG3	1.98	0.87
1:d:254:ILE:HD11	1:d:396:LEU:HD21	1.53	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:300:VAL:CB	1:e:327:ILE:HG22	1.93	0.87
1:f:80:MET:HB2	1:f:127:ARG:CZ	2.03	0.87
1:f:268:TYR:C	1:f:270:GLU:H	1.82	0.87
1:g:331:GLN:HE22	1:h:335:GLN:HG3	1.38	0.87
1:h:442:LEU:CD2	1:h:476:ILE:HD13	2.01	0.87
1:i:257:VAL:HG23	1:i:267:SER:HB3	0.87	0.87
1:k:398:LEU:HD12	1:k:402:ARG:CZ	2.04	0.87
1:l:442:LEU:HD22	1:l:476:ILE:HG21	1.56	0.87
1:a:382:GLU:OE2	1:a:389:TYR:CE2	2.27	0.87
1:b:450:ALA:N	1:c:455:MET:CE	2.37	0.87
1:d:255:ARG:H	1:d:395:GLU:CG	1.87	0.87
1:e:37:TYR:CE2	1:e:276:LEU:HD13	2.09	0.87
1:e:268:TYR:C	1:e:270:GLU:H	1.82	0.87
1:e:397:GLN:CB	1:e:426:ILE:CD1	2.51	0.87
1:f:78:PHE:CZ	1:f:130:LEU:HD13	2.07	0.87
1:f:331:GLN:HE22	1:g:335:GLN:HG3	1.38	0.87
1:f:333:GLU:N	1:f:333:GLU:OE1	2.07	0.87
1:f:398:LEU:O	1:f:402:ARG:HB2	1.74	0.87
1:g:60:ALA:CB	1:h:274:GLY:HA3	2.04	0.87
1:g:319:PHE:HE2	1:h:311:LEU:CB	1.87	0.87
1:h:476:ILE:HD11	1:i:469:ARG:HH11	1.39	0.87
1:j:59:GLN:CD	1:j:279:LEU:N	2.22	0.87
1:j:442:LEU:CD2	1:j:476:ILE:HD13	2.01	0.87
1:k:398:LEU:O	1:k:402:ARG:HB2	1.74	0.87
1:l:80:MET:HB2	1:l:127:ARG:CZ	2.04	0.87
1:l:257:VAL:HG21	1:l:267:SER:CB	2.01	0.87
1:a:319:PHE:HE2	1:b:311:LEU:CG	1.87	0.87
1:b:289:MET:CE	1:c:340:VAL:HG12	2.03	0.87
1:b:382:GLU:OE2	1:b:389:TYR:CE2	2.27	0.87
1:c:382:GLU:OE2	1:c:389:TYR:CE2	2.27	0.87
1:c:397:GLN:CG	1:c:426:ILE:HG23	2.03	0.87
1:d:293:SER:C	1:e:288:LYS:HB2	1.98	0.87
1:e:257:VAL:HG23	1:e:267:SER:HB3	0.87	0.87
1:f:397:GLN:CB	1:f:426:ILE:CD1	2.51	0.87
1:f:398:LEU:HD12	1:f:402:ARG:CZ	2.04	0.87
1:f:442:LEU:HD22	1:f:476:ILE:HG21	1.56	0.87
1:h:126:TYR:HE1	1:h:158:MET:HB2	1.34	0.87
1:h:382:GLU:OE2	1:h:389:TYR:CE2	2.27	0.87
1:i:255:ARG:H	1:i:395:GLU:CG	1.87	0.87
1:j:268:TYR:C	1:j:270:GLU:N	2.30	0.87
1:j:397:GLN:CG	1:j:426:ILE:HG23	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:284:GLU:HG3	1:l:290:SER:C	1.99	0.87
1:c:80:MET:HB2	1:c:127:ARG:CZ	2.03	0.87
1:c:255:ARG:H	1:c:395:GLU:CG	1.87	0.87
1:c:257:VAL:HG23	1:c:267:SER:HB3	0.87	0.87
1:c:406:LYS:HA	1:c:406:LYS:HZ3	1.36	0.87
1:f:268:TYR:C	1:f:270:GLU:N	2.30	0.87
1:g:268:TYR:C	1:g:270:GLU:H	1.82	0.87
1:h:78:PHE:CZ	1:h:130:LEU:HD13	2.08	0.87
1:j:333:GLU:OE1	1:j:333:GLU:N	2.07	0.87
1:k:80:MET:HB2	1:k:127:ARG:CZ	2.03	0.87
1:k:162:ARG:CD	1:l:260:ASP:OD2	2.21	0.87
1:k:319:PHE:HE2	1:l:311:LEU:CG	1.87	0.87
1:k:354:PHE:O	1:k:357:MET:HE2	1.74	0.87
1:l:78:PHE:CZ	1:l:130:LEU:HD13	2.08	0.87
1:a:268:TYR:C	1:a:270:GLU:H	1.82	0.87
1:a:274:GLY:HA3	1:l:60:ALA:CB	2.02	0.87
1:a:331:GLN:HE22	1:b:335:GLN:HG3	1.39	0.87
1:a:340:VAL:HG12	1:l:289:MET:CE	2.03	0.87
1:a:390:SER:HG	1:l:128:VAL:HG12	1.36	0.87
1:c:398:LEU:HD12	1:c:402:ARG:CZ	2.04	0.87
1:d:78:PHE:CZ	1:d:130:LEU:HD13	2.08	0.87
1:e:382:GLU:OE2	1:e:389:TYR:CE2	2.27	0.87
1:f:257:VAL:HG23	1:f:267:SER:HB3	0.87	0.87
1:g:80:MET:SD	1:g:122:GLU:CG	2.63	0.87
1:h:246:LYS:HA	1:h:246:LYS:CE	2.02	0.87
1:h:257:VAL:HG23	1:h:267:SER:HB3	0.87	0.87
1:i:398:LEU:HD12	1:i:402:ARG:CZ	2.04	0.87
1:j:257:VAL:HG23	1:j:267:SER:HB3	0.87	0.87
1:j:290:SER:C	1:k:284:GLU:HG3	2.00	0.87
1:k:442:LEU:HD22	1:k:476:ILE:HG21	1.57	0.87
1:a:80:MET:SD	1:a:122:GLU:CG	2.63	0.87
1:a:255:ARG:H	1:a:395:GLU:CG	1.87	0.87
1:a:311:LEU:CB	1:l:319:PHE:HE2	1.87	0.87
1:a:469:ARG:HH11	1:l:476:ILE:HD11	1.40	0.87
1:b:442:LEU:HD22	1:b:476:ILE:HG21	1.56	0.87
1:c:39:ILE:HD11	1:c:42:LEU:HD21	1.57	0.87
1:c:268:TYR:C	1:c:270:GLU:H	1.82	0.87
1:d:39:ILE:HD11	1:d:42:LEU:HD21	1.57	0.87
1:d:333:GLU:OE1	1:d:333:GLU:N	2.07	0.87
1:f:319:PHE:HE2	1:g:311:LEU:CB	1.87	0.87
1:h:476:ILE:HD11	1:i:469:ARG:NH1	1.89	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:481:ILE:CD1	1:i:466:ILE:HG12	1.92	0.87
1:i:162:ARG:CD	1:j:260:ASP:OD2	2.23	0.87
1:j:331:GLN:HE22	1:k:335:GLN:HG3	1.37	0.87
1:j:397:GLN:CB	1:j:426:ILE:CD1	2.51	0.87
1:k:333:GLU:N	1:k:333:GLU:OE1	2.07	0.87
1:l:268:TYR:C	1:l:270:GLU:H	1.82	0.87
1:a:354:PHE:O	1:a:357:MET:CE	2.23	0.87
1:b:476:ILE:HD11	1:c:469:ARG:HH11	1.39	0.87
1:e:319:PHE:HE2	1:f:311:LEU:CB	1.87	0.87
1:e:319:PHE:HE2	1:f:311:LEU:CG	1.87	0.87
1:g:257:VAL:HG23	1:g:267:SER:HB3	0.87	0.87
1:h:442:LEU:HD22	1:h:476:ILE:HG21	1.56	0.87
1:k:80:MET:SD	1:k:122:GLU:CG	2.63	0.87
1:k:257:VAL:HG23	1:k:267:SER:HB3	0.87	0.87
1:k:331:GLN:HE22	1:l:335:GLN:HG3	1.38	0.87
1:l:59:GLN:HE22	1:l:278:SER:HB3	1.39	0.87
1:a:397:GLN:CB	1:a:426:ILE:CD1	2.51	0.87
1:b:257:VAL:HG23	1:b:267:SER:HB3	0.87	0.87
1:c:59:GLN:HE22	1:c:278:SER:HB3	1.40	0.87
1:c:442:LEU:HD22	1:c:476:ILE:HG21	1.56	0.87
1:e:333:GLU:OE1	1:e:333:GLU:N	2.07	0.87
1:f:126:TYR:HE1	1:f:158:MET:HB2	1.34	0.87
1:j:398:LEU:O	1:j:402:ARG:HB2	1.74	0.87
1:k:254:ILE:HD11	1:k:396:LEU:HD21	1.54	0.87
1:k:255:ARG:H	1:k:395:GLU:CG	1.87	0.87
1:k:268:TYR:C	1:k:270:GLU:H	1.82	0.87
1:l:257:VAL:HG23	1:l:267:SER:HB3	0.87	0.87
1:l:333:GLU:OE1	1:l:333:GLU:N	2.07	0.87
1:l:382:GLU:OE2	1:l:389:TYR:CE2	2.27	0.87
1:b:39:ILE:HD11	1:b:42:LEU:HD21	1.57	0.86
1:b:268:TYR:C	1:b:270:GLU:H	1.82	0.86
1:b:418:PRO:CA	1:b:419:LYS:HE3	2.05	0.86
1:c:126:TYR:HE1	1:c:158:MET:HB2	1.34	0.86
1:e:55:GLN:OE1	1:e:55:GLN:N	2.08	0.86
1:g:225:GLU:CB	1:g:243:THR:HB	2.05	0.86
1:g:246:LYS:HA	1:g:246:LYS:CE	2.02	0.86
1:g:397:GLN:CB	1:g:426:ILE:CD1	2.51	0.86
1:j:78:PHE:CZ	1:j:130:LEU:HD13	2.08	0.86
1:j:225:GLU:CB	1:j:243:THR:HB	2.05	0.86
1:k:319:PHE:HE2	1:l:311:LEU:CB	1.88	0.86
1:a:39:ILE:HD11	1:a:42:LEU:HD21	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:59:GLN:HE22	1:a:278:SER:HB3	1.40	0.86
1:a:290:SER:C	1:b:284:GLU:HG3	2.00	0.86
1:a:418:PRO:CA	1:a:419:LYS:HE3	2.05	0.86
1:b:80:MET:SD	1:b:122:GLU:CG	2.63	0.86
1:b:128:VAL:HG11	1:c:394:GLN:HG2	1.55	0.86
1:b:398:LEU:HD12	1:b:402:ARG:CZ	2.04	0.86
1:e:80:MET:SD	1:e:122:GLU:CG	2.63	0.86
1:g:128:VAL:HG12	1:h:390:SER:HG	1.38	0.86
1:g:398:LEU:O	1:g:402:ARG:HB2	1.74	0.86
1:h:319:PHE:HE2	1:i:311:LEU:CG	1.86	0.86
1:h:398:LEU:CG	1:h:402:ARG:HH22	1.88	0.86
1:i:418:PRO:CA	1:i:419:LYS:HE3	2.05	0.86
1:j:476:ILE:HD11	1:k:469:ARG:HH11	1.40	0.86
1:k:159:LYS:HE2	1:k:161:TYR:CE1	2.08	0.86
1:k:476:ILE:CD1	1:l:469:ARG:HH11	1.89	0.86
1:l:398:LEU:HD12	1:l:402:ARG:CZ	2.04	0.86
1:a:455:MET:CE	1:l:450:ALA:N	2.38	0.86
1:b:78:PHE:CZ	1:b:130:LEU:HD13	2.07	0.86
1:b:268:TYR:C	1:b:270:GLU:N	2.30	0.86
1:b:397:GLN:CG	1:b:426:ILE:HG23	2.03	0.86
1:c:418:PRO:CA	1:c:419:LYS:HE3	2.05	0.86
1:d:225:GLU:CB	1:d:243:THR:HB	2.06	0.86
1:d:257:VAL:HG23	1:d:267:SER:HB3	0.87	0.86
1:d:331:GLN:HE22	1:e:335:GLN:HG3	1.39	0.86
1:e:39:ILE:HD11	1:e:42:LEU:HD21	1.57	0.86
1:e:331:GLN:NE2	1:f:335:GLN:CA	2.38	0.86
1:f:398:LEU:CG	1:f:402:ARG:HH22	1.88	0.86
1:g:418:PRO:CA	1:g:419:LYS:HE3	2.05	0.86
1:g:476:ILE:HD11	1:h:469:ARG:NH1	1.89	0.86
1:h:80:MET:SD	1:h:122:GLU:CG	2.63	0.86
1:h:354:PHE:O	1:h:357:MET:HE2	1.75	0.86
1:i:254:ILE:HD11	1:i:396:LEU:HD21	1.54	0.86
1:j:39:ILE:HD12	1:j:42:LEU:CD2	2.03	0.86
1:j:80:MET:SD	1:j:122:GLU:CG	2.63	0.86
1:a:260:ASP:OD2	1:l:162:ARG:CD	2.22	0.86
1:b:319:PHE:HE2	1:c:311:LEU:CB	1.87	0.86
1:c:37:TYR:CE2	1:c:276:LEU:HD13	2.09	0.86
1:c:128:VAL:HG11	1:d:394:GLN:HG2	1.54	0.86
1:e:480:GLY:O	1:f:465:MET:CB	2.22	0.86
1:h:292:ILE:HD12	1:i:288:LYS:HZ2	1.39	0.86
1:h:333:GLU:OE1	1:h:333:GLU:N	2.07	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:254:ILE:HD11	1:j:396:LEU:HD21	1.53	0.86
1:l:39:ILE:HD11	1:l:42:LEU:HD21	1.57	0.86
1:a:162:ARG:CD	1:b:260:ASP:OD2	2.22	0.86
1:a:398:LEU:CG	1:a:402:ARG:HH22	1.88	0.86
1:b:333:GLU:OE1	1:b:333:GLU:N	2.07	0.86
1:b:398:LEU:CG	1:b:402:ARG:HH22	1.89	0.86
1:c:59:GLN:CD	1:c:279:LEU:N	2.22	0.86
1:c:162:ARG:CD	1:d:260:ASP:OD2	2.22	0.86
1:c:225:GLU:CB	1:c:243:THR:HB	2.05	0.86
1:d:80:MET:HB2	1:d:127:ARG:CZ	2.03	0.86
1:e:289:MET:CE	1:f:340:VAL:CB	2.50	0.86
1:f:128:VAL:HG11	1:g:394:GLN:HG2	1.57	0.86
1:f:418:PRO:CA	1:f:419:LYS:HE3	2.05	0.86
1:h:476:ILE:CD1	1:i:469:ARG:HH11	1.89	0.86
1:a:333:GLU:OE1	1:a:333:GLU:N	2.07	0.86
1:b:140:ALA:HB2	1:b:267:SER:O	1.76	0.86
1:d:268:TYR:C	1:d:270:GLU:H	1.82	0.86
1:j:257:VAL:HG23	1:j:267:SER:HB2	1.52	0.86
1:j:418:PRO:CA	1:j:419:LYS:HE3	2.05	0.86
1:l:418:PRO:CA	1:l:419:LYS:HE3	2.05	0.86
1:a:257:VAL:HG23	1:a:267:SER:HB3	0.87	0.86
1:c:319:PHE:HE2	1:d:311:LEU:CB	1.86	0.86
1:f:80:MET:SD	1:f:122:GLU:CG	2.63	0.86
1:f:225:GLU:CB	1:f:243:THR:HB	2.06	0.86
1:g:319:PHE:HE2	1:h:311:LEU:CG	1.87	0.86
1:i:37:TYR:CE2	1:i:276:LEU:HD13	2.09	0.86
1:k:39:ILE:HD11	1:k:42:LEU:HD21	1.57	0.86
1:k:126:TYR:HE1	1:k:158:MET:HE3	1.03	0.86
1:k:397:GLN:CG	1:k:426:ILE:HG23	2.03	0.86
1:l:126:TYR:HE1	1:l:158:MET:HE3	1.03	0.86
1:a:225:GLU:CB	1:a:243:THR:HB	2.06	0.86
1:c:333:GLU:N	1:c:333:GLU:OE1	2.07	0.86
1:c:476:ILE:HD11	1:d:469:ARG:NH1	1.90	0.86
1:c:476:ILE:HD11	1:d:469:ARG:HH11	1.40	0.86
1:d:418:PRO:CA	1:d:419:LYS:HE3	2.05	0.86
1:g:37:TYR:CE2	1:g:276:LEU:HD13	2.10	0.86
1:g:74:MET:SD	1:g:131:PHE:CD2	2.63	0.86
1:i:268:TYR:C	1:i:270:GLU:H	1.82	0.86
1:i:398:LEU:O	1:i:402:ARG:HB2	1.74	0.86
1:j:268:TYR:C	1:j:270:GLU:H	1.82	0.86
1:l:17:TYR:CB	1:l:180:VAL:CG1	2.45	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:466:ILE:HG12	1:l:481:ILE:CD1	1.92	0.86
1:c:300:VAL:CG1	1:c:327:ILE:CG2	2.08	0.86
1:e:15:SER:OG	1:e:216:HIS:NE2	2.09	0.86
1:e:442:LEU:HD22	1:e:476:ILE:HG21	1.57	0.86
1:f:15:SER:OG	1:f:216:HIS:NE2	2.09	0.86
1:g:268:TYR:C	1:g:270:GLU:N	2.30	0.86
1:i:225:GLU:CB	1:i:243:THR:HB	2.06	0.86
1:i:289:MET:CE	1:j:340:VAL:HG12	2.04	0.86
1:i:331:GLN:HE22	1:j:335:GLN:HG3	1.38	0.86
1:i:359:ASN:CG	1:j:380:GLU:HB3	2.00	0.86
1:j:359:ASN:HB3	1:k:380:GLU:OE1	1.76	0.86
1:k:300:VAL:CB	1:k:327:ILE:HG22	1.94	0.86
1:d:69:LEU:HG	1:d:73:LEU:HD23	1.58	0.86
1:f:314:ALA:HB1	1:f:318:ASP:CB	2.06	0.86
1:g:476:ILE:CD1	1:h:469:ARG:HH11	1.89	0.86
1:h:225:GLU:CB	1:h:243:THR:HB	2.05	0.86
1:l:140:ALA:HB2	1:l:267:SER:O	1.76	0.86
1:a:397:GLN:CG	1:a:426:ILE:HG23	2.03	0.85
1:b:331:GLN:NE2	1:c:335:GLN:CA	2.39	0.85
1:c:368:ARG:O	1:c:370:THR:CB	2.23	0.85
1:d:80:MET:SD	1:d:122:GLU:CG	2.63	0.85
1:d:359:ASN:HD21	1:e:380:GLU:HB3	1.37	0.85
1:h:37:TYR:CE2	1:h:276:LEU:HD13	2.10	0.85
1:h:418:PRO:CA	1:h:419:LYS:HE3	2.05	0.85
1:i:128:VAL:HG11	1:j:394:GLN:HG2	1.55	0.85
1:j:289:MET:CE	1:k:340:VAL:HG12	2.03	0.85
1:k:480:GLY:O	1:l:465:MET:CB	2.23	0.85
1:l:80:MET:SD	1:l:122:GLU:CG	2.63	0.85
1:l:225:GLU:CB	1:l:243:THR:HB	2.05	0.85
1:l:398:LEU:CG	1:l:402:ARG:HH22	1.88	0.85
1:e:140:ALA:HB2	1:e:267:SER:O	1.76	0.85
1:e:257:VAL:O	1:e:257:VAL:HG12	1.76	0.85
1:f:39:ILE:HD11	1:f:42:LEU:HD21	1.57	0.85
1:g:442:LEU:HD22	1:g:476:ILE:HG21	1.56	0.85
1:g:480:GLY:O	1:h:465:MET:CB	2.24	0.85
1:h:397:GLN:CB	1:h:426:ILE:CD1	2.51	0.85
1:j:246:LYS:HA	1:j:246:LYS:CE	2.02	0.85
1:j:314:ALA:HB1	1:j:318:ASP:CB	2.06	0.85
1:l:37:TYR:CE2	1:l:276:LEU:HD13	2.10	0.85
1:l:397:GLN:CB	1:l:426:ILE:CD1	2.51	0.85
1:a:15:SER:OG	1:a:216:HIS:NE2	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:126:TYR:HE1	1:a:158:MET:HE3	1.04	0.85
1:b:86:LEU:HD21	1:b:424:PRO:HB3	1.56	0.85
1:b:162:ARG:CD	1:c:260:ASP:OD2	2.23	0.85
1:c:69:LEU:HG	1:c:73:LEU:HD23	1.58	0.85
1:c:80:MET:SD	1:c:122:GLU:CG	2.63	0.85
1:c:86:LEU:HD21	1:c:424:PRO:HB3	1.56	0.85
1:d:59:GLN:HE22	1:d:278:SER:HB3	1.40	0.85
1:d:140:ALA:HB2	1:d:267:SER:O	1.76	0.85
1:g:314:ALA:HB1	1:g:318:ASP:CB	2.06	0.85
1:h:15:SER:OG	1:h:216:HIS:CD2	2.30	0.85
1:k:277:ARG:NH1	1:k:348:ILE:HD13	1.91	0.85
1:l:15:SER:OG	1:l:216:HIS:NE2	2.09	0.85
1:e:398:LEU:HD12	1:e:402:ARG:CZ	2.04	0.85
1:f:162:ARG:CD	1:g:260:ASP:OD2	2.25	0.85
1:h:331:GLN:NE2	1:i:335:GLN:CA	2.39	0.85
1:i:290:SER:C	1:j:284:GLU:HG3	2.00	0.85
1:i:314:ALA:HB1	1:i:318:ASP:CB	2.07	0.85
1:i:481:ILE:CD1	1:j:466:ILE:HG12	1.93	0.85
1:k:225:GLU:CB	1:k:243:THR:HB	2.06	0.85
1:k:398:LEU:CG	1:k:402:ARG:HH22	1.88	0.85
1:k:418:PRO:CA	1:k:419:LYS:HE3	2.05	0.85
1:k:481:ILE:HD13	1:l:466:ILE:HD13	1.59	0.85
1:l:397:GLN:CG	1:l:426:ILE:HG23	2.03	0.85
1:a:314:ALA:HB1	1:a:318:ASP:CB	2.06	0.85
1:b:37:TYR:CE2	1:b:276:LEU:HD13	2.10	0.85
1:e:69:LEU:HG	1:e:73:LEU:HD23	1.59	0.85
1:e:225:GLU:CB	1:e:243:THR:HB	2.06	0.85
1:e:418:PRO:CA	1:e:419:LYS:HE3	2.05	0.85
1:f:17:TYR:CB	1:f:180:VAL:CG1	2.45	0.85
1:h:398:LEU:O	1:h:402:ARG:HB2	1.74	0.85
1:i:69:LEU:HG	1:i:73:LEU:HD23	1.59	0.85
1:j:442:LEU:HD22	1:j:476:ILE:HG21	1.57	0.85
1:l:15:SER:OG	1:l:216:HIS:CD2	2.30	0.85
1:l:86:LEU:HD21	1:l:424:PRO:HB3	1.56	0.85
1:a:37:TYR:CE2	1:a:276:LEU:HD13	2.10	0.85
1:a:469:ARG:NH1	1:l:476:ILE:HD11	1.90	0.85
1:b:225:GLU:CB	1:b:243:THR:HB	2.05	0.85
1:b:354:PHE:O	1:b:357:MET:HE2	1.75	0.85
1:b:476:ILE:CD1	1:c:469:ARG:HH11	1.90	0.85
1:c:257:VAL:O	1:c:257:VAL:HG12	1.77	0.85
1:e:162:ARG:HG3	1:f:260:ASP:OD2	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:69:LEU:HG	1:f:73:LEU:HD23	1.58	0.85
1:g:15:SER:OG	1:g:216:HIS:NE2	2.09	0.85
1:h:110:LEU:CD1	1:h:111:SER:N	2.39	0.85
1:j:39:ILE:HD11	1:j:42:LEU:HD21	1.57	0.85
1:j:69:LEU:HG	1:j:73:LEU:HD23	1.58	0.85
1:j:126:TYR:HE1	1:j:158:MET:HE3	1.03	0.85
1:l:257:VAL:HG23	1:l:267:SER:HB2	1.52	0.85
1:a:140:ALA:HB2	1:a:267:SER:O	1.76	0.85
1:a:319:PHE:HE2	1:b:311:LEU:CB	1.88	0.85
1:c:162:ARG:HG3	1:d:260:ASP:OD2	1.76	0.85
1:e:15:SER:OG	1:e:216:HIS:CD2	2.30	0.85
1:g:69:LEU:HG	1:g:73:LEU:HD23	1.58	0.85
1:j:59:GLN:HE22	1:j:278:SER:HB3	1.40	0.85
1:j:398:LEU:CG	1:j:402:ARG:HH22	1.88	0.85
1:j:476:ILE:HD11	1:k:469:ARG:NH1	1.91	0.85
1:b:257:VAL:O	1:b:257:VAL:HG12	1.77	0.85
1:c:140:ALA:HB2	1:c:267:SER:O	1.76	0.85
1:d:37:TYR:CE2	1:d:276:LEU:HD13	2.10	0.85
1:e:354:PHE:O	1:e:357:MET:HE2	1.74	0.85
1:f:15:SER:OG	1:f:216:HIS:CD2	2.30	0.85
1:h:69:LEU:HG	1:h:73:LEU:HD23	1.59	0.85
1:j:17:TYR:CE1	1:j:167:VAL:HG21	2.12	0.85
1:k:69:LEU:HG	1:k:73:LEU:HD23	1.59	0.85
1:l:17:TYR:CE1	1:l:167:VAL:HG21	2.12	0.85
1:l:69:LEU:HG	1:l:73:LEU:HD23	1.59	0.85
1:a:450:ALA:N	1:b:455:MET:CE	2.40	0.85
1:b:15:SER:OG	1:b:216:HIS:CD2	2.30	0.85
1:c:334:LYS:HD2	1:c:334:LYS:N	1.92	0.85
1:f:334:LYS:HD2	1:f:334:LYS:N	1.92	0.85
1:g:110:LEU:CD1	1:g:111:SER:N	2.39	0.85
1:g:140:ALA:HB2	1:g:267:SER:O	1.76	0.85
1:i:17:TYR:CB	1:i:180:VAL:CG1	2.45	0.85
1:i:80:MET:SD	1:i:122:GLU:CG	2.63	0.85
1:j:15:SER:OG	1:j:216:HIS:CD2	2.30	0.85
1:j:15:SER:OG	1:j:216:HIS:NE2	2.09	0.85
1:l:334:LYS:HD2	1:l:334:LYS:N	1.92	0.85
1:a:69:LEU:HG	1:a:73:LEU:HD23	1.59	0.85
1:a:277:ARG:NH1	1:a:348:ILE:HD13	1.92	0.85
1:a:476:ILE:HD11	1:b:469:ARG:NH1	1.92	0.85
1:c:314:ALA:HB1	1:c:318:ASP:CB	2.06	0.85
1:d:314:ALA:HB1	1:d:318:ASP:CB	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:359:ASN:CG	1:g:380:GLU:HB3	2.02	0.85
1:k:17:TYR:CB	1:k:180:VAL:CG1	2.45	0.85
1:k:37:TYR:CE2	1:k:276:LEU:HD13	2.10	0.85
1:k:140:ALA:HB2	1:k:267:SER:O	1.76	0.85
1:l:314:ALA:HB1	1:l:318:ASP:CB	2.06	0.85
1:a:442:LEU:HD22	1:a:476:ILE:HG21	1.56	0.84
1:b:69:LEU:HG	1:b:73:LEU:HD23	1.59	0.84
1:c:15:SER:OG	1:c:216:HIS:CD2	2.30	0.84
1:c:450:ALA:N	1:d:455:MET:CE	2.39	0.84
1:d:319:PHE:HE2	1:e:311:LEU:CB	1.88	0.84
1:i:257:VAL:HG23	1:i:267:SER:HB2	1.52	0.84
1:i:397:GLN:CB	1:i:426:ILE:CD1	2.51	0.84
1:i:398:LEU:CG	1:i:402:ARG:HH22	1.89	0.84
1:k:60:ALA:CB	1:l:274:GLY:HA3	2.04	0.84
1:a:126:TYR:HE1	1:a:158:MET:HB2	1.34	0.84
1:c:279:LEU:O	1:c:279:LEU:HD13	1.78	0.84
1:e:78:PHE:CZ	1:e:130:LEU:HD13	2.08	0.84
1:f:59:GLN:HE22	1:f:278:SER:HB3	1.40	0.84
1:g:15:SER:OG	1:g:216:HIS:CD2	2.30	0.84
1:h:398:LEU:HD12	1:h:402:ARG:CZ	2.04	0.84
1:h:480:GLY:O	1:i:465:MET:CB	2.23	0.84
1:j:300:VAL:CB	1:j:327:ILE:HG22	1.94	0.84
1:k:368:ARG:O	1:k:370:THR:CB	2.25	0.84
1:a:257:VAL:O	1:a:257:VAL:HG12	1.76	0.84
1:a:465:MET:CB	1:l:480:GLY:O	2.25	0.84
1:a:469:ARG:HH11	1:l:476:ILE:CD1	1.90	0.84
1:a:476:ILE:HD11	1:b:469:ARG:HH11	1.42	0.84
1:b:126:TYR:HE1	1:b:158:MET:HB2	1.34	0.84
1:b:279:LEU:HD13	1:b:279:LEU:O	1.78	0.84
1:c:292:ILE:HD12	1:d:288:LYS:HZ2	1.40	0.84
1:c:300:VAL:CA	1:c:327:ILE:CG2	2.22	0.84
1:d:15:SER:OG	1:d:216:HIS:NE2	2.09	0.84
1:e:277:ARG:NH1	1:e:348:ILE:HD13	1.92	0.84
1:i:59:GLN:CD	1:i:279:LEU:N	2.22	0.84
1:i:476:ILE:HD11	1:j:469:ARG:HH11	1.42	0.84
1:k:331:GLN:NE2	1:l:335:GLN:CA	2.40	0.84
1:a:86:LEU:HD21	1:a:424:PRO:HB3	1.56	0.84
1:d:279:LEU:O	1:d:279:LEU:HD13	1.78	0.84
1:f:110:LEU:CD1	1:f:111:SER:N	2.39	0.84
1:g:257:VAL:O	1:g:257:VAL:HG12	1.76	0.84
1:i:15:SER:OG	1:i:216:HIS:NE2	2.09	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:39:ILE:HD11	1:i:42:LEU:HD21	1.57	0.84
1:i:140:ALA:HB2	1:i:267:SER:O	1.76	0.84
1:j:17:TYR:CB	1:j:180:VAL:CG1	2.45	0.84
1:k:314:ALA:HB1	1:k:318:ASP:CB	2.06	0.84
1:l:257:VAL:O	1:l:257:VAL:HG12	1.77	0.84
1:l:277:ARG:NH1	1:l:348:ILE:HD13	1.91	0.84
1:c:15:SER:OG	1:c:216:HIS:NE2	2.09	0.84
1:d:15:SER:OG	1:d:216:HIS:CD2	2.30	0.84
1:d:334:LYS:HD2	1:d:334:LYS:N	1.92	0.84
1:e:314:ALA:HB1	1:e:318:ASP:CB	2.06	0.84
1:e:398:LEU:CG	1:e:402:ARG:HH22	1.88	0.84
1:g:39:ILE:HD11	1:g:42:LEU:HD21	1.57	0.84
1:i:279:LEU:O	1:i:279:LEU:HD13	1.78	0.84
1:i:334:LYS:HD2	1:i:334:LYS:N	1.92	0.84
1:j:128:VAL:HG11	1:k:394:GLN:HG2	1.57	0.84
1:j:162:ARG:CD	1:k:260:ASP:OD2	2.25	0.84
1:k:279:LEU:O	1:k:279:LEU:HD13	1.78	0.84
1:l:86:LEU:HD13	1:l:422:VAL:CG1	2.08	0.84
1:d:442:LEU:HD22	1:d:476:ILE:HG21	1.56	0.84
1:f:83:TRP:CD1	1:f:118:MET:CE	2.59	0.84
1:h:15:SER:OG	1:h:216:HIS:NE2	2.09	0.84
1:h:17:TYR:CE1	1:h:167:VAL:HG21	2.12	0.84
1:j:279:LEU:HD13	1:j:279:LEU:O	1.78	0.84
1:k:334:LYS:HD2	1:k:334:LYS:N	1.92	0.84
1:l:279:LEU:O	1:l:279:LEU:HD13	1.78	0.84
1:b:246:LYS:HA	1:b:246:LYS:CE	2.02	0.84
1:c:476:ILE:CD1	1:d:469:ARG:HH11	1.91	0.84
1:d:17:TYR:CB	1:d:180:VAL:CG1	2.45	0.84
1:d:162:ARG:CD	1:e:260:ASP:OD2	2.25	0.84
1:f:140:ALA:HB2	1:f:267:SER:O	1.76	0.84
1:f:277:ARG:NH1	1:f:348:ILE:HD13	1.93	0.84
1:f:290:SER:C	1:g:284:GLU:HG3	2.01	0.84
1:h:39:ILE:HD11	1:h:42:LEU:HD21	1.57	0.84
1:h:314:ALA:HB1	1:h:318:ASP:CB	2.06	0.84
1:i:59:GLN:HE22	1:i:278:SER:HB3	1.40	0.84
1:j:140:ALA:HB2	1:j:267:SER:O	1.76	0.84
1:j:450:ALA:N	1:k:455:MET:CE	2.39	0.84
1:k:86:LEU:HD13	1:k:422:VAL:CG1	2.08	0.84
1:a:15:SER:OG	1:a:216:HIS:CD2	2.30	0.84
1:a:370:THR:O	1:a:374:ILE:N	2.10	0.84
1:d:83:TRP:CD1	1:d:118:MET:CE	2.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:292:ILE:HD12	1:h:288:LYS:HZ2	1.41	0.84
1:g:331:GLN:NE2	1:h:335:GLN:CA	2.41	0.84
1:g:334:LYS:HD2	1:g:334:LYS:N	1.92	0.84
1:i:15:SER:OG	1:i:216:HIS:CD2	2.30	0.84
1:i:86:LEU:HD13	1:i:422:VAL:CG1	2.08	0.84
1:j:268:TYR:HD1	1:j:269:ILE:N	1.76	0.84
1:l:277:ARG:CZ	1:l:351:ARG:NH2	2.41	0.84
1:b:17:TYR:CE1	1:b:167:VAL:HG21	2.12	0.84
1:b:334:LYS:HD2	1:b:334:LYS:N	1.92	0.84
1:b:480:GLY:O	1:c:465:MET:CB	2.25	0.84
1:c:17:TYR:HH	1:c:24:ARG:NH2	1.73	0.84
1:d:476:ILE:HD11	1:e:469:ARG:NH1	1.93	0.84
1:e:60:ALA:CB	1:f:274:GLY:HA3	2.04	0.84
1:g:162:ARG:HG3	1:h:260:ASP:OD2	1.78	0.84
1:h:140:ALA:HB2	1:h:267:SER:O	1.76	0.84
1:i:476:ILE:HD11	1:j:469:ARG:NH1	1.92	0.84
1:a:260:ASP:OD2	1:l:162:ARG:HG3	1.77	0.84
1:a:357:MET:HE1	1:a:381:LEU:CG	2.04	0.84
1:b:126:TYR:HE1	1:b:158:MET:HE3	1.03	0.84
1:c:277:ARG:NH1	1:c:348:ILE:HD13	1.92	0.84
1:d:257:VAL:O	1:d:257:VAL:HG12	1.76	0.84
1:d:277:ARG:NH1	1:d:348:ILE:HD13	1.93	0.84
1:d:359:ASN:HB3	1:e:380:GLU:OE1	1.77	0.84
1:g:86:LEU:HD13	1:g:422:VAL:CG1	2.08	0.84
1:g:279:LEU:O	1:g:279:LEU:HD13	1.78	0.84
1:i:450:ALA:N	1:j:455:MET:CE	2.41	0.84
1:j:334:LYS:HD2	1:j:334:LYS:N	1.92	0.84
1:a:277:ARG:CZ	1:a:351:ARG:NH2	2.41	0.83
1:b:59:GLN:HE22	1:b:278:SER:HB3	1.40	0.83
1:c:480:GLY:O	1:d:465:MET:CB	2.25	0.83
1:e:110:LEU:CD1	1:e:111:SER:N	2.39	0.83
1:e:279:LEU:HD13	1:e:279:LEU:O	1.78	0.83
1:e:334:LYS:HD2	1:e:334:LYS:N	1.92	0.83
1:g:406:LYS:HA	1:g:406:LYS:HZ3	1.40	0.83
1:k:15:SER:OG	1:k:216:HIS:NE2	2.09	0.83
1:a:17:TYR:CE1	1:a:167:VAL:HG21	2.12	0.83
1:c:277:ARG:CZ	1:c:351:ARG:NH2	2.41	0.83
1:f:257:VAL:O	1:f:257:VAL:HG12	1.76	0.83
1:f:476:ILE:HD11	1:g:469:ARG:NH1	1.93	0.83
1:i:126:TYR:HE1	1:i:158:MET:HE3	1.03	0.83
1:k:15:SER:OG	1:k:216:HIS:CD2	2.30	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:268:TYR:HD1	1:k:269:ILE:N	1.76	0.83
1:b:15:SER:OG	1:b:216:HIS:NE2	2.09	0.83
1:d:17:TYR:HH	1:d:24:ARG:NH2	1.73	0.83
1:h:268:TYR:HD1	1:h:269:ILE:N	1.76	0.83
1:h:334:LYS:HD2	1:h:334:LYS:N	1.92	0.83
1:i:268:TYR:C	1:i:270:GLU:N	2.30	0.83
1:i:277:ARG:NH1	1:i:348:ILE:HD13	1.93	0.83
1:j:277:ARG:CZ	1:j:351:ARG:NH2	2.42	0.83
1:k:266:ARG:NE	1:k:270:GLU:OE1	2.11	0.83
1:a:279:LEU:O	1:a:279:LEU:HD13	1.78	0.83
1:a:335:GLN:CA	1:l:331:GLN:NE2	2.42	0.83
1:b:69:LEU:HD22	1:b:138:VAL:HG21	1.61	0.83
1:c:69:LEU:HD22	1:c:138:VAL:HG21	1.61	0.83
1:e:446:VAL:HG21	1:f:452:LEU:CD2	2.09	0.83
1:h:162:ARG:HG3	1:i:260:ASP:OD2	1.76	0.83
1:j:86:LEU:HD13	1:j:422:VAL:CG1	2.08	0.83
1:j:481:ILE:CD1	1:k:466:ILE:HG12	1.94	0.83
1:c:17:TYR:CE1	1:c:167:VAL:HG21	2.12	0.83
1:e:86:LEU:HD21	1:e:424:PRO:HB3	1.56	0.83
1:e:325:GLU:HA	1:f:299:LEU:CD1	2.08	0.83
1:k:277:ARG:CZ	1:k:351:ARG:NH2	2.41	0.83
1:l:266:ARG:NE	1:l:270:GLU:OE1	2.11	0.83
1:a:69:LEU:HD22	1:a:138:VAL:HG21	1.61	0.83
1:a:480:GLY:O	1:b:465:MET:CB	2.26	0.83
1:a:481:ILE:CD1	1:b:466:ILE:HG12	1.92	0.83
1:b:162:ARG:HG3	1:c:260:ASP:OD2	1.78	0.83
1:b:314:ALA:HB1	1:b:318:ASP:CB	2.06	0.83
1:b:368:ARG:CA	1:c:373:GLU:OE2	2.26	0.83
1:d:69:LEU:HD22	1:d:138:VAL:HG21	1.61	0.83
1:d:128:VAL:HG11	1:e:394:GLN:HG2	1.58	0.83
1:f:86:LEU:HD13	1:f:422:VAL:CG1	2.08	0.83
1:g:266:ARG:NE	1:g:270:GLU:OE1	2.11	0.83
1:h:266:ARG:NE	1:h:270:GLU:OE1	2.11	0.83
1:j:266:ARG:NE	1:j:270:GLU:OE1	2.11	0.83
1:j:331:GLN:NE2	1:k:335:GLN:CA	2.41	0.83
1:k:162:ARG:HG3	1:l:260:ASP:OD2	1.77	0.83
1:a:86:LEU:HD13	1:a:422:VAL:CG1	2.08	0.83
1:a:466:ILE:CD1	1:l:481:ILE:HD12	1.94	0.83
1:b:37:TYR:CD2	1:b:276:LEU:CD1	2.62	0.83
1:c:244:TYR:CE2	1:c:250:PRO:HD2	2.14	0.83
1:c:300:VAL:CB	1:c:327:ILE:HG22	1.94	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:59:GLN:HE22	1:e:278:SER:HB3	1.40	0.83
1:f:279:LEU:O	1:f:279:LEU:HD13	1.78	0.83
1:g:481:ILE:HD12	1:h:466:ILE:CD1	1.95	0.83
1:i:148:PRO:CD	1:i:156:ASN:ND2	2.42	0.83
1:i:162:ARG:HG3	1:j:260:ASP:OD2	1.77	0.83
1:j:476:ILE:CD1	1:k:469:ARG:HH11	1.92	0.83
1:k:257:VAL:O	1:k:257:VAL:HG12	1.76	0.83
1:c:246:LYS:HA	1:c:246:LYS:CE	2.02	0.83
1:g:59:GLN:HE22	1:g:278:SER:HB3	1.40	0.83
1:j:37:TYR:CD2	1:j:276:LEU:CD1	2.62	0.83
1:j:300:VAL:CG1	1:j:327:ILE:CG2	2.08	0.83
1:l:69:LEU:HD22	1:l:138:VAL:HG21	1.61	0.83
1:l:244:TYR:CE2	1:l:250:PRO:HD2	2.14	0.83
1:a:37:TYR:CD2	1:a:276:LEU:CD1	2.62	0.83
1:b:86:LEU:HD13	1:b:422:VAL:CG1	2.08	0.83
1:c:331:GLN:NE2	1:d:335:GLN:CA	2.42	0.83
1:d:59:GLN:CD	1:d:279:LEU:N	2.22	0.83
1:f:266:ARG:NE	1:f:270:GLU:OE1	2.11	0.83
1:g:17:TYR:CE1	1:g:167:VAL:HG21	2.12	0.83
1:i:17:TYR:CE1	1:i:167:VAL:HG21	2.12	0.83
1:j:37:TYR:CE2	1:j:276:LEU:HD13	2.09	0.83
1:d:86:LEU:HD13	1:d:422:VAL:CG1	2.08	0.83
1:d:110:LEU:CD1	1:d:111:SER:N	2.39	0.83
1:d:290:SER:C	1:e:284:GLU:HG3	2.02	0.83
1:d:398:LEU:CG	1:d:402:ARG:HH22	1.88	0.83
1:e:277:ARG:CZ	1:e:351:ARG:NH2	2.41	0.83
1:e:481:ILE:HD13	1:f:466:ILE:HD13	1.58	0.83
1:h:86:LEU:HD13	1:h:422:VAL:CG1	2.08	0.83
1:h:148:PRO:CD	1:h:156:ASN:ND2	2.42	0.83
1:h:279:LEU:O	1:h:279:LEU:HD13	1.78	0.83
1:j:148:PRO:CD	1:j:156:ASN:ND2	2.42	0.83
1:k:37:TYR:CD2	1:k:276:LEU:CD1	2.62	0.83
1:l:368:ARG:O	1:l:370:THR:CB	2.26	0.83
1:c:69:LEU:HG	1:c:73:LEU:CD2	2.09	0.82
1:d:69:LEU:HG	1:d:73:LEU:CD2	2.09	0.82
1:k:17:TYR:CE1	1:k:167:VAL:HG21	2.12	0.82
1:c:37:TYR:CD2	1:c:276:LEU:CD1	2.62	0.82
1:d:86:LEU:HD21	1:d:424:PRO:HB3	1.56	0.82
1:f:148:PRO:CD	1:f:156:ASN:ND2	2.42	0.82
1:g:148:PRO:CD	1:g:156:ASN:ND2	2.42	0.82
1:g:398:LEU:CG	1:g:402:ARG:HH22	1.88	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:277:ARG:CZ	1:h:351:ARG:NH2	2.42	0.82
1:j:257:VAL:O	1:j:257:VAL:HG12	1.76	0.82
1:j:277:ARG:NH1	1:j:348:ILE:HD13	1.93	0.82
1:a:266:ARG:NE	1:a:270:GLU:OE1	2.11	0.82
1:b:27:TYR:HD2	1:b:264:TYR:O	1.62	0.82
1:d:476:ILE:HD11	1:e:469:ARG:HH11	1.43	0.82
1:e:69:LEU:HG	1:e:73:LEU:CD2	2.10	0.82
1:g:277:ARG:NH1	1:g:348:ILE:HD13	1.94	0.82
1:h:481:ILE:HD12	1:i:466:ILE:CD1	1.95	0.82
1:i:37:TYR:CD2	1:i:276:LEU:CD1	2.62	0.82
1:i:257:VAL:O	1:i:257:VAL:HG12	1.77	0.82
1:l:69:LEU:HG	1:l:73:LEU:CD2	2.09	0.82
1:b:148:PRO:CD	1:b:156:ASN:ND2	2.42	0.82
1:b:398:LEU:HD22	1:b:426:ILE:HD12	1.61	0.82
1:c:126:TYR:HE1	1:c:158:MET:HE3	1.04	0.82
1:e:17:TYR:CE1	1:e:167:VAL:HG21	2.12	0.82
1:f:36:GLN:OE1	1:f:45:LYS:HD2	1.79	0.82
1:g:36:GLN:OE1	1:g:45:LYS:HD2	1.80	0.82
1:g:37:TYR:CD2	1:g:276:LEU:CD1	2.62	0.82
1:g:359:ASN:CG	1:h:380:GLU:HB3	2.04	0.82
1:h:325:GLU:HA	1:i:299:LEU:CD1	2.09	0.82
1:k:36:GLN:OE1	1:k:45:LYS:HD2	1.80	0.82
1:k:80:MET:HG3	1:k:127:ARG:HH21	1.45	0.82
1:k:148:PRO:CD	1:k:156:ASN:ND2	2.42	0.82
1:a:36:GLN:OE1	1:a:45:LYS:HD2	1.80	0.82
1:a:148:PRO:CD	1:a:156:ASN:ND2	2.42	0.82
1:b:36:GLN:OE1	1:b:45:LYS:HD2	1.80	0.82
1:e:69:LEU:HD22	1:e:138:VAL:HG21	1.61	0.82
1:e:244:TYR:CE2	1:e:250:PRO:HD2	2.14	0.82
1:e:266:ARG:NE	1:e:270:GLU:OE1	2.11	0.82
1:f:37:TYR:CD2	1:f:276:LEU:CD1	2.62	0.82
1:f:323:ARG:CG	1:f:324:PRO:CD	2.57	0.82
1:g:83:TRP:CD1	1:g:118:MET:CE	2.59	0.82
1:g:408:LEU:O	1:g:414:ILE:CB	2.28	0.82
1:h:69:LEU:HD22	1:h:138:VAL:HG21	1.61	0.82
1:i:266:ARG:NE	1:i:270:GLU:OE1	2.11	0.82
1:i:277:ARG:CZ	1:i:351:ARG:NH2	2.42	0.82
1:i:480:GLY:O	1:j:465:MET:CB	2.26	0.82
1:k:69:LEU:HG	1:k:73:LEU:CD2	2.09	0.82
1:l:80:MET:HG3	1:l:127:ARG:HH21	1.44	0.82
1:l:148:PRO:CD	1:l:156:ASN:ND2	2.42	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:244:TYR:CE2	1:b:250:PRO:HD2	2.14	0.82
1:b:277:ARG:CZ	1:b:351:ARG:NH2	2.42	0.82
1:b:481:ILE:HD13	1:c:466:ILE:HD13	1.60	0.82
1:c:148:PRO:CD	1:c:156:ASN:ND2	2.42	0.82
1:c:338:PHE:HA	1:d:340:VAL:CG2	2.10	0.82
1:d:266:ARG:NE	1:d:270:GLU:OE1	2.11	0.82
1:d:398:LEU:HD22	1:d:426:ILE:HD12	1.61	0.82
1:h:59:GLN:CD	1:h:279:LEU:N	2.21	0.82
1:h:126:TYR:HE1	1:h:158:MET:HE3	1.04	0.82
1:i:69:LEU:HD22	1:i:138:VAL:HG21	1.61	0.82
1:i:476:ILE:CD1	1:j:469:ARG:HH11	1.93	0.82
1:j:80:MET:HG3	1:j:127:ARG:HH21	1.44	0.82
1:j:398:LEU:HD22	1:j:426:ILE:HD12	1.61	0.82
1:l:408:LEU:O	1:l:414:ILE:HG21	1.80	0.82
1:a:406:LYS:HA	1:a:406:LYS:HZ3	1.44	0.82
1:a:408:LEU:O	1:a:414:ILE:HG21	1.80	0.82
1:b:266:ARG:NE	1:b:270:GLU:OE1	2.11	0.82
1:b:277:ARG:NH1	1:b:348:ILE:HD13	1.93	0.82
1:c:268:TYR:HD1	1:c:269:ILE:N	1.76	0.82
1:c:398:LEU:CG	1:c:402:ARG:HH22	1.89	0.82
1:c:402:ARG:HG2	1:c:402:ARG:HH11	1.45	0.82
1:d:227:LEU:HD23	1:d:243:THR:CA	2.10	0.82
1:e:37:TYR:CD2	1:e:276:LEU:CD1	2.62	0.82
1:e:86:LEU:HD13	1:e:422:VAL:CG1	2.08	0.82
1:f:69:LEU:HG	1:f:73:LEU:CD2	2.09	0.82
1:f:80:MET:HG3	1:f:127:ARG:HH21	1.44	0.82
1:f:408:LEU:O	1:f:414:ILE:CB	2.28	0.82
1:h:17:TYR:CB	1:h:180:VAL:CG1	2.45	0.82
1:h:408:LEU:O	1:h:414:ILE:CB	2.28	0.82
1:k:449:TRP:C	1:l:455:MET:HE2	2.04	0.82
1:l:408:LEU:O	1:l:414:ILE:CB	2.28	0.82
1:a:244:TYR:CE2	1:a:250:PRO:HD2	2.14	0.82
1:b:227:LEU:HD23	1:b:243:THR:CA	2.10	0.82
1:b:365:THR:O	1:b:368:ARG:HD2	1.80	0.82
1:d:148:PRO:CD	1:d:156:ASN:ND2	2.42	0.82
1:e:408:LEU:O	1:e:414:ILE:CB	2.28	0.82
1:f:162:ARG:HG3	1:g:260:ASP:OD2	1.78	0.82
1:f:277:ARG:CZ	1:f:351:ARG:NH2	2.42	0.82
1:i:398:LEU:HD22	1:i:426:ILE:HD12	1.60	0.82
1:j:86:LEU:HD21	1:j:424:PRO:HB3	1.56	0.82
1:j:227:LEU:HD23	1:j:243:THR:CA	2.10	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:277:ARG:HD3	1:j:348:ILE:HD11	1.62	0.82
1:j:480:GLY:O	1:k:465:MET:CB	2.27	0.82
1:k:402:ARG:HG2	1:k:402:ARG:HH11	1.45	0.82
1:l:36:GLN:OE1	1:l:45:LYS:HD2	1.80	0.82
1:l:37:TYR:CD2	1:l:276:LEU:CD1	2.62	0.82
1:l:227:LEU:HD23	1:l:243:THR:CA	2.10	0.82
1:a:69:LEU:HG	1:a:73:LEU:CD2	2.10	0.82
1:a:359:ASN:ND2	1:b:380:GLU:HB3	1.95	0.82
1:a:476:ILE:CD1	1:b:469:ARG:HH11	1.93	0.82
1:b:69:LEU:HG	1:b:73:LEU:CD2	2.10	0.82
1:c:323:ARG:CG	1:c:324:PRO:CD	2.57	0.82
1:e:449:TRP:C	1:f:455:MET:HE2	2.03	0.82
1:i:277:ARG:HD3	1:i:348:ILE:HD11	1.62	0.82
1:i:331:GLN:NE2	1:j:335:GLN:CA	2.43	0.82
1:i:408:LEU:O	1:i:414:ILE:CB	2.28	0.82
1:j:69:LEU:HG	1:j:73:LEU:CD2	2.09	0.82
1:k:59:GLN:HE22	1:k:278:SER:HB3	1.40	0.82
1:a:334:LYS:HD2	1:a:334:LYS:N	1.92	0.82
1:a:380:GLU:OE1	1:l:359:ASN:HB3	1.79	0.82
1:d:162:ARG:HG3	1:e:260:ASP:OD2	1.80	0.82
1:d:268:TYR:HD1	1:d:269:ILE:N	1.76	0.82
1:d:408:LEU:O	1:d:414:ILE:HG21	1.80	0.82
1:e:17:TYR:CB	1:e:180:VAL:CG1	2.45	0.82
1:g:227:LEU:HD23	1:g:243:THR:CA	2.10	0.82
1:h:37:TYR:CD2	1:h:276:LEU:CD1	2.62	0.82
1:k:86:LEU:HD21	1:k:424:PRO:HB3	1.56	0.82
1:a:246:LYS:HA	1:a:246:LYS:CE	2.02	0.81
1:a:408:LEU:O	1:a:414:ILE:CB	2.28	0.81
1:b:56:THR:HG21	1:c:273:LEU:HD12	1.62	0.81
1:c:36:GLN:OE1	1:c:45:LYS:HD2	1.80	0.81
1:e:246:LYS:HA	1:e:246:LYS:CE	2.02	0.81
1:g:69:LEU:HD22	1:g:138:VAL:HG21	1.61	0.81
1:g:277:ARG:CZ	1:g:351:ARG:NH2	2.42	0.81
1:g:382:GLU:OE2	1:g:389:TYR:HE2	1.63	0.81
1:g:446:VAL:HG21	1:h:452:LEU:CD2	2.10	0.81
1:j:382:GLU:OE2	1:j:389:TYR:HE2	1.63	0.81
1:k:406:LYS:HA	1:k:406:LYS:HZ3	1.43	0.81
1:l:382:GLU:OE2	1:l:389:TYR:HE2	1.63	0.81
1:a:380:GLU:OE1	1:l:359:ASN:CG	2.23	0.81
1:b:408:LEU:O	1:b:414:ILE:CB	2.28	0.81
1:c:110:LEU:CD1	1:c:111:SER:N	2.39	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:292:ILE:HD12	1:g:288:LYS:HZ2	1.42	0.81
1:f:450:ALA:N	1:g:455:MET:CE	2.43	0.81
1:j:408:LEU:O	1:j:414:ILE:HG21	1.80	0.81
1:l:83:TRP:CD1	1:l:118:MET:CE	2.59	0.81
1:a:80:MET:HG3	1:a:127:ARG:HH21	1.44	0.81
1:a:83:TRP:CD1	1:a:118:MET:CE	2.60	0.81
1:a:466:ILE:HD13	1:l:481:ILE:HD13	1.60	0.81
1:b:402:ARG:HG2	1:b:402:ARG:HH11	1.45	0.81
1:c:266:ARG:NE	1:c:270:GLU:OE1	2.11	0.81
1:d:277:ARG:CZ	1:d:351:ARG:NH2	2.41	0.81
1:d:331:GLN:NE2	1:e:335:GLN:CA	2.43	0.81
1:d:382:GLU:OE2	1:d:389:TYR:HE2	1.63	0.81
1:d:402:ARG:HH11	1:d:402:ARG:HG2	1.45	0.81
1:d:408:LEU:O	1:d:414:ILE:CB	2.28	0.81
1:e:59:GLN:CD	1:e:279:LEU:N	2.22	0.81
1:e:80:MET:HG3	1:e:127:ARG:HH21	1.44	0.81
1:e:148:PRO:CD	1:e:156:ASN:ND2	2.42	0.81
1:e:227:LEU:HD23	1:e:243:THR:CA	2.10	0.81
1:e:268:TYR:O	1:e:269:ILE:C	2.23	0.81
1:e:402:ARG:HG2	1:e:402:ARG:HH11	1.45	0.81
1:g:80:MET:HG3	1:g:127:ARG:HH21	1.45	0.81
1:g:368:ARG:HA	1:h:373:GLU:OE2	1.79	0.81
1:h:36:GLN:OE1	1:h:45:LYS:HD2	1.80	0.81
1:h:277:ARG:HD3	1:h:348:ILE:HD11	1.62	0.81
1:h:359:ASN:HD21	1:i:380:GLU:HB3	1.44	0.81
1:h:368:ARG:HA	1:i:373:GLU:OE2	1.80	0.81
1:h:402:ARG:HG2	1:h:402:ARG:HH11	1.45	0.81
1:h:449:TRP:C	1:i:455:MET:HE2	2.04	0.81
1:i:338:PHE:HA	1:j:340:VAL:CG2	2.11	0.81
1:j:36:GLN:OE1	1:j:45:LYS:HD2	1.80	0.81
1:j:244:TYR:CE2	1:j:250:PRO:HD2	2.14	0.81
1:j:408:LEU:O	1:j:414:ILE:CB	2.28	0.81
1:k:69:LEU:HD22	1:k:138:VAL:HG21	1.61	0.81
1:k:408:LEU:O	1:k:414:ILE:HG21	1.80	0.81
1:l:323:ARG:CG	1:l:324:PRO:CD	2.57	0.81
1:l:398:LEU:HD22	1:l:426:ILE:HD12	1.61	0.81
1:c:86:LEU:HD13	1:c:422:VAL:CG1	2.08	0.81
1:c:408:LEU:O	1:c:414:ILE:CB	2.28	0.81
1:d:27:TYR:HD2	1:d:264:TYR:O	1.62	0.81
1:e:382:GLU:OE2	1:e:389:TYR:HE2	1.63	0.81
1:g:325:GLU:HA	1:h:299:LEU:CD1	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:338:PHE:HA	1:h:340:VAL:CG2	2.11	0.81
1:g:481:ILE:CD1	1:h:466:ILE:HG12	1.92	0.81
1:h:277:ARG:NH1	1:h:348:ILE:HD13	1.94	0.81
1:i:227:LEU:HD23	1:i:243:THR:CA	2.10	0.81
1:j:69:LEU:HD22	1:j:138:VAL:HG21	1.61	0.81
1:j:148:PRO:HD3	1:j:156:ASN:HD21	1.46	0.81
1:l:402:ARG:HH11	1:l:402:ARG:HG2	1.45	0.81
1:c:268:TYR:O	1:c:269:ILE:C	2.23	0.81
1:c:408:LEU:O	1:c:414:ILE:HG21	1.80	0.81
1:d:36:GLN:OE1	1:d:45:LYS:HD2	1.80	0.81
1:d:37:TYR:CD2	1:d:276:LEU:CD1	2.62	0.81
1:d:450:ALA:N	1:e:455:MET:CE	2.43	0.81
1:e:338:PHE:HA	1:f:340:VAL:CG2	2.11	0.81
1:e:408:LEU:O	1:e:414:ILE:HG21	1.80	0.81
1:f:17:TYR:CE1	1:f:167:VAL:HG21	2.12	0.81
1:h:69:LEU:HG	1:h:73:LEU:CD2	2.10	0.81
1:h:300:VAL:CB	1:h:327:ILE:HG22	1.94	0.81
1:h:446:VAL:HG21	1:i:452:LEU:CD2	2.09	0.81
1:i:148:PRO:HD3	1:i:156:ASN:HD21	1.45	0.81
1:k:277:ARG:HD3	1:k:348:ILE:HD11	1.62	0.81
1:b:325:GLU:HA	1:c:299:LEU:CD1	2.09	0.81
1:d:126:TYR:HE1	1:d:158:MET:HE3	1.03	0.81
1:f:227:LEU:HD23	1:f:243:THR:CA	2.10	0.81
1:f:476:ILE:HD11	1:g:469:ARG:HH11	1.42	0.81
1:g:69:LEU:HG	1:g:73:LEU:CD2	2.10	0.81
1:g:277:ARG:HD3	1:g:348:ILE:HD11	1.62	0.81
1:g:398:LEU:HD22	1:g:426:ILE:HD12	1.61	0.81
1:h:148:PRO:HD3	1:h:156:ASN:HD21	1.46	0.81
1:h:227:LEU:HD23	1:h:243:THR:CA	2.10	0.81
1:h:257:VAL:O	1:h:257:VAL:HG12	1.77	0.81
1:l:148:PRO:HD3	1:l:156:ASN:HD21	1.45	0.81
1:a:338:PHE:HA	1:b:340:VAL:CG2	2.10	0.81
1:a:340:VAL:CG2	1:l:338:PHE:HA	2.11	0.81
1:a:357:MET:SD	1:a:381:LEU:CD2	2.68	0.81
1:b:80:MET:HG3	1:b:127:ARG:HH21	1.44	0.81
1:c:227:LEU:HD23	1:c:243:THR:CA	2.10	0.81
1:d:17:TYR:CE1	1:d:167:VAL:HG21	2.12	0.81
1:f:39:ILE:HG22	1:f:63:ALA:HB1	1.62	0.81
1:f:119:ASN:O	1:f:123:SER:HB2	1.81	0.81
1:h:309:ARG:HH11	1:h:309:ARG:HG3	1.46	0.81
1:h:408:LEU:O	1:h:414:ILE:HG21	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:148:PRO:HD3	1:k:156:ASN:HD21	1.46	0.81
1:k:300:VAL:CG1	1:k:327:ILE:CG2	2.08	0.81
1:k:325:GLU:HA	1:l:299:LEU:CD1	2.10	0.81
1:k:359:ASN:HD21	1:l:380:GLU:HB3	1.45	0.81
1:a:331:GLN:NE2	1:b:335:GLN:CA	2.44	0.81
1:b:268:TYR:HD1	1:b:269:ILE:N	1.76	0.81
1:d:480:GLY:O	1:e:465:MET:CB	2.29	0.81
1:e:368:ARG:HA	1:f:373:GLU:OE2	1.80	0.81
1:f:268:TYR:HD1	1:f:269:ILE:N	1.76	0.81
1:f:398:LEU:HD22	1:f:426:ILE:HD12	1.61	0.81
1:f:402:ARG:HG2	1:f:402:ARG:HH11	1.45	0.81
1:f:480:GLY:O	1:g:465:MET:CB	2.29	0.81
1:g:323:ARG:CG	1:g:324:PRO:CD	2.57	0.81
1:g:402:ARG:HG2	1:g:402:ARG:HH11	1.45	0.81
1:h:481:ILE:HD13	1:i:466:ILE:HD13	1.59	0.81
1:i:119:ASN:O	1:i:123:SER:HB2	1.81	0.81
1:i:268:TYR:HD1	1:i:269:ILE:N	1.76	0.81
1:i:408:LEU:O	1:i:414:ILE:HG21	1.80	0.81
1:j:325:GLU:HA	1:k:299:LEU:CD1	2.10	0.81
1:k:54:TYR:CE2	1:k:56:THR:HG22	2.16	0.81
1:a:455:MET:HE2	1:l:449:TRP:C	2.06	0.81
1:a:481:ILE:HD12	1:b:466:ILE:CD1	1.94	0.81
1:b:17:TYR:HH	1:b:24:ARG:NH2	1.78	0.81
1:b:128:VAL:CG1	1:c:390:SER:HG	1.82	0.81
1:b:408:LEU:O	1:b:414:ILE:HG21	1.80	0.81
1:c:325:GLU:HA	1:d:299:LEU:CD1	2.10	0.81
1:e:119:ASN:O	1:e:123:SER:HB2	1.81	0.81
1:f:382:GLU:OE2	1:f:389:TYR:HE2	1.63	0.81
1:g:54:TYR:CE2	1:g:56:THR:HG22	2.15	0.81
1:g:309:ARG:HH11	1:g:309:ARG:HG3	1.46	0.81
1:k:83:TRP:CD1	1:k:118:MET:CE	2.59	0.81
1:k:119:ASN:O	1:k:123:SER:HB2	1.81	0.81
1:k:446:VAL:HG21	1:l:452:LEU:CD2	2.09	0.81
1:k:481:ILE:HD11	1:l:466:ILE:CD1	1.74	0.81
1:a:17:TYR:HH	1:a:24:ARG:NH2	1.77	0.81
1:a:119:ASN:O	1:a:123:SER:HB2	1.81	0.81
1:a:227:LEU:HD23	1:a:243:THR:CA	2.10	0.81
1:a:449:TRP:HB3	1:b:455:MET:CE	2.11	0.81
1:b:309:ARG:HH11	1:b:309:ARG:HG3	1.46	0.81
1:b:319:PHE:CE2	1:c:311:LEU:HB3	2.16	0.81
1:b:446:VAL:HG21	1:c:452:LEU:CD2	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:17:TYR:HH	1:e:24:ARG:NH2	1.76	0.81
1:h:39:ILE:HG22	1:h:63:ALA:HB1	1.62	0.81
1:i:69:LEU:HG	1:i:73:LEU:CD2	2.10	0.81
1:i:402:ARG:HG2	1:i:402:ARG:HH11	1.45	0.81
1:k:398:LEU:HD22	1:k:426:ILE:HD12	1.61	0.81
1:k:408:LEU:O	1:k:414:ILE:CB	2.28	0.81
1:b:83:TRP:CD1	1:b:118:MET:CE	2.59	0.80
1:b:110:LEU:CD1	1:b:111:SER:N	2.39	0.80
1:e:36:GLN:OE1	1:e:45:LYS:HD2	1.79	0.80
1:f:227:LEU:CD2	1:f:243:THR:HA	2.11	0.80
1:f:309:ARG:HG3	1:f:309:ARG:HH11	1.46	0.80
1:g:268:TYR:HD1	1:g:269:ILE:N	1.76	0.80
1:g:481:ILE:HD13	1:h:466:ILE:HD13	1.59	0.80
1:h:244:TYR:CE2	1:h:250:PRO:HD2	2.14	0.80
1:h:338:PHE:HA	1:i:340:VAL:CG2	2.11	0.80
1:j:54:TYR:CE2	1:j:56:THR:HG22	2.16	0.80
1:j:323:ARG:CG	1:j:324:PRO:CD	2.56	0.80
1:k:227:LEU:HD23	1:k:243:THR:CA	2.10	0.80
1:l:277:ARG:HD3	1:l:348:ILE:HD11	1.62	0.80
1:c:398:LEU:HD22	1:c:426:ILE:HD12	1.61	0.80
1:f:244:TYR:CE2	1:f:250:PRO:HD2	2.14	0.80
1:g:86:LEU:HD21	1:g:424:PRO:HB3	1.56	0.80
1:i:397:GLN:CG	1:i:426:ILE:HG23	2.03	0.80
1:e:268:TYR:HD1	1:e:269:ILE:N	1.76	0.80
1:f:476:ILE:CD1	1:g:469:ARG:HH11	1.95	0.80
1:g:119:ASN:O	1:g:123:SER:HB2	1.81	0.80
1:g:227:LEU:CD2	1:g:243:THR:HA	2.12	0.80
1:g:449:TRP:C	1:h:455:MET:HE2	2.04	0.80
1:h:59:GLN:HE22	1:h:278:SER:HB3	1.40	0.80
1:h:227:LEU:CD2	1:h:243:THR:HA	2.11	0.80
1:i:17:TYR:HB2	1:i:180:VAL:HG13	1.63	0.80
1:k:56:THR:HG21	1:l:273:LEU:HD12	1.63	0.80
1:k:244:TYR:CE2	1:k:250:PRO:HD2	2.14	0.80
1:l:27:TYR:HD2	1:l:264:TYR:O	1.62	0.80
1:a:110:LEU:CD1	1:a:111:SER:N	2.39	0.80
1:a:148:PRO:HD3	1:a:156:ASN:HD21	1.46	0.80
1:a:292:ILE:HD12	1:b:288:LYS:HZ2	1.46	0.80
1:a:299:LEU:CD1	1:l:325:GLU:HA	2.10	0.80
1:c:128:VAL:CA	1:d:390:SER:OG	2.30	0.80
1:c:446:VAL:HG21	1:d:452:LEU:CD2	2.11	0.80
1:d:244:TYR:CE2	1:d:250:PRO:HD2	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:476:ILE:CD1	1:e:469:ARG:HH11	1.95	0.80
1:i:86:LEU:HD21	1:i:424:PRO:HB3	1.56	0.80
1:j:162:ARG:HG3	1:k:260:ASP:OD2	1.79	0.80
1:j:359:ASN:CG	1:k:380:GLU:HB3	2.05	0.80
1:j:402:ARG:HG2	1:j:402:ARG:HH11	1.45	0.80
1:k:309:ARG:HH11	1:k:309:ARG:HG3	1.46	0.80
1:l:119:ASN:O	1:l:123:SER:HB2	1.81	0.80
1:a:27:TYR:HD2	1:a:264:TYR:O	1.62	0.80
1:a:162:ARG:HG3	1:b:260:ASP:OD2	1.78	0.80
1:a:382:GLU:OE2	1:a:389:TYR:HE2	1.63	0.80
1:a:390:SER:OG	1:l:128:VAL:CA	2.30	0.80
1:b:481:ILE:HD12	1:c:466:ILE:CD1	1.95	0.80
1:c:382:GLU:OE2	1:c:389:TYR:HE2	1.63	0.80
1:d:38:THR:HG22	1:d:63:ALA:HA	1.64	0.80
1:d:359:ASN:CG	1:e:380:GLU:HB3	2.06	0.80
1:e:83:TRP:CD1	1:e:118:MET:CE	2.59	0.80
1:e:128:VAL:CA	1:f:390:SER:OG	2.29	0.80
1:e:449:TRP:CA	1:f:455:MET:HE1	2.12	0.80
1:f:69:LEU:HD22	1:f:138:VAL:HG21	1.61	0.80
1:i:27:TYR:HD2	1:i:264:TYR:O	1.62	0.80
1:i:227:LEU:CD2	1:i:243:THR:HA	2.12	0.80
1:i:449:TRP:HB3	1:j:455:MET:CE	2.12	0.80
1:j:119:ASN:O	1:j:123:SER:HB2	1.81	0.80
1:k:128:VAL:CA	1:l:390:SER:OG	2.30	0.80
1:a:402:ARG:HG2	1:a:402:ARG:HH11	1.45	0.80
1:a:449:TRP:C	1:b:455:MET:HE2	2.06	0.80
1:b:382:GLU:OE2	1:b:389:TYR:HE2	1.63	0.80
1:c:38:THR:HG22	1:c:63:ALA:HA	1.64	0.80
1:c:80:MET:HG3	1:c:127:ARG:HH21	1.44	0.80
1:e:398:LEU:HD22	1:e:426:ILE:HD12	1.61	0.80
1:e:439:LEU:HB2	1:f:473:ALA:HB1	1.63	0.80
1:f:86:LEU:HD21	1:f:424:PRO:HB3	1.56	0.80
1:f:277:ARG:HD3	1:f:348:ILE:HD11	1.62	0.80
1:g:39:ILE:HG22	1:g:63:ALA:HB1	1.63	0.80
1:g:148:PRO:HD3	1:g:156:ASN:HD21	1.45	0.80
1:g:408:LEU:O	1:g:414:ILE:HG21	1.80	0.80
1:i:36:GLN:OE1	1:i:45:LYS:HD2	1.80	0.80
1:i:39:ILE:HG22	1:i:63:ALA:HB1	1.63	0.80
1:j:309:ARG:HH11	1:j:309:ARG:HG3	1.46	0.80
1:k:382:GLU:OE2	1:k:389:TYR:HE2	1.63	0.80
1:b:119:ASN:O	1:b:123:SER:HB2	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:370:THR:H	1:b:373:GLU:HB3	1.47	0.80
1:c:83:TRP:CD1	1:c:118:MET:CE	2.59	0.80
1:d:17:TYR:CD2	1:d:182:ARG:HD2	2.17	0.80
1:e:227:LEU:CD2	1:e:243:THR:HA	2.12	0.80
1:g:126:TYR:HE1	1:g:158:MET:HE3	1.03	0.80
1:g:359:ASN:CB	1:h:380:GLU:OE1	2.30	0.80
1:h:54:TYR:CE2	1:h:56:THR:HG22	2.16	0.80
1:h:56:THR:HG21	1:i:273:LEU:HD12	1.63	0.80
1:i:268:TYR:O	1:i:269:ILE:C	2.23	0.80
1:i:481:ILE:HD12	1:j:466:ILE:CD1	1.94	0.80
1:j:289:MET:HE3	1:k:340:VAL:HB	1.64	0.80
1:k:17:TYR:CD2	1:k:182:ARG:HD2	2.17	0.80
1:k:359:ASN:CB	1:l:380:GLU:OE1	2.30	0.80
1:l:17:TYR:CD2	1:l:182:ARG:HD2	2.17	0.80
1:a:309:ARG:HG3	1:a:309:ARG:HH11	1.46	0.80
1:a:342:LYS:NZ	1:b:343:ALA:HB1	1.97	0.80
1:b:338:PHE:HA	1:c:340:VAL:CG2	2.12	0.80
1:d:119:ASN:O	1:d:123:SER:HB2	1.81	0.80
1:e:126:TYR:HE1	1:e:158:MET:HE3	1.03	0.80
1:f:36:GLN:OE1	1:f:45:LYS:CD	2.30	0.80
1:f:289:MET:HE3	1:g:340:VAL:HB	1.63	0.80
1:g:244:TYR:CE2	1:g:250:PRO:HD2	2.14	0.80
1:h:319:PHE:CE2	1:i:311:LEU:HB3	2.17	0.80
1:h:335:GLN:NE2	1:i:336:ALA:HB3	1.96	0.80
1:i:36:GLN:OE1	1:i:45:LYS:CD	2.30	0.80
1:i:309:ARG:HG3	1:i:309:ARG:HH11	1.46	0.80
1:i:382:GLU:OE2	1:i:389:TYR:HE2	1.63	0.80
1:j:36:GLN:OE1	1:j:45:LYS:CD	2.30	0.80
1:a:277:ARG:HD3	1:a:348:ILE:HD11	1.62	0.80
1:b:277:ARG:HD3	1:b:348:ILE:HD11	1.62	0.80
1:c:27:TYR:HD2	1:c:264:TYR:O	1.62	0.80
1:d:39:ILE:HG22	1:d:63:ALA:HB1	1.63	0.80
1:e:27:TYR:HD2	1:e:264:TYR:O	1.62	0.80
1:e:36:GLN:OE1	1:e:45:LYS:CD	2.30	0.80
1:f:126:TYR:HE1	1:f:158:MET:HE3	1.03	0.80
1:f:408:LEU:O	1:f:414:ILE:HG21	1.80	0.80
1:h:17:TYR:HB2	1:h:180:VAL:HG13	1.63	0.80
1:h:86:LEU:HD21	1:h:424:PRO:HB3	1.56	0.80
1:h:382:GLU:OE2	1:h:389:TYR:HE2	1.63	0.80
1:j:27:TYR:HD2	1:j:264:TYR:O	1.62	0.80
1:a:39:ILE:HG22	1:a:63:ALA:HB1	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:54:TYR:CE2	1:b:56:THR:HG22	2.17	0.80
1:d:323:ARG:CG	1:d:324:PRO:CD	2.57	0.80
1:d:449:TRP:HB3	1:e:455:MET:CE	2.12	0.80
1:e:319:PHE:CE2	1:f:311:LEU:HB3	2.16	0.80
1:h:268:TYR:O	1:h:269:ILE:C	2.23	0.80
1:h:398:LEU:HD22	1:h:426:ILE:HD12	1.61	0.80
1:i:244:TYR:CE2	1:i:250:PRO:HD2	2.14	0.80
1:j:83:TRP:CD1	1:j:118:MET:CE	2.59	0.80
1:j:227:LEU:CD2	1:j:243:THR:HA	2.12	0.80
1:k:39:ILE:HG22	1:k:63:ALA:HB1	1.62	0.80
1:l:268:TYR:HD1	1:l:269:ILE:N	1.76	0.80
1:a:268:TYR:HD1	1:a:269:ILE:N	1.76	0.79
1:a:325:GLU:HA	1:b:299:LEU:CD1	2.11	0.79
1:a:398:LEU:HD22	1:a:426:ILE:HD12	1.61	0.79
1:b:17:TYR:CB	1:b:180:VAL:CG1	2.45	0.79
1:b:39:ILE:HG22	1:b:63:ALA:HB1	1.63	0.79
1:d:227:LEU:CD2	1:d:243:THR:HA	2.11	0.79
1:e:335:GLN:NE2	1:f:336:ALA:HB3	1.96	0.79
1:g:36:GLN:OE1	1:g:45:LYS:CD	2.30	0.79
1:g:359:ASN:CG	1:h:380:GLU:OE1	2.24	0.79
1:h:439:LEU:HB2	1:i:473:ALA:HB1	1.65	0.79
1:i:325:GLU:HA	1:j:299:LEU:CD1	2.11	0.79
1:j:39:ILE:HG22	1:j:63:ALA:HB1	1.62	0.79
1:j:338:PHE:HA	1:k:340:VAL:CG2	2.12	0.79
1:k:36:GLN:OE1	1:k:45:LYS:CD	2.30	0.79
1:a:38:THR:HG22	1:a:63:ALA:HA	1.64	0.79
1:a:128:VAL:CA	1:b:390:SER:OG	2.30	0.79
1:b:38:THR:HG22	1:b:63:ALA:HA	1.64	0.79
1:b:148:PRO:HD3	1:b:156:ASN:HD21	1.46	0.79
1:c:17:TYR:CB	1:c:180:VAL:CG1	2.45	0.79
1:c:119:ASN:O	1:c:123:SER:HB2	1.81	0.79
1:c:132:GLU:HG2	1:d:258:ARG:C	2.06	0.79
1:c:309:ARG:HH11	1:c:309:ARG:HG3	1.46	0.79
1:e:322:GLY:O	1:f:300:VAL:O	2.01	0.79
1:f:338:PHE:HA	1:g:340:VAL:CG2	2.11	0.79
1:i:289:MET:HE3	1:j:340:VAL:HB	1.64	0.79
1:k:268:TYR:O	1:k:269:ILE:C	2.23	0.79
1:a:227:LEU:CD2	1:a:243:THR:HA	2.12	0.79
1:e:38:THR:HG22	1:e:63:ALA:HA	1.64	0.79
1:f:406:LYS:HA	1:f:406:LYS:HZ3	1.47	0.79
1:g:335:GLN:NE2	1:h:336:ALA:HB3	1.97	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:80:MET:HG3	1:h:127:ARG:HH21	1.45	0.79
1:h:83:TRP:CD1	1:h:118:MET:CE	2.59	0.79
1:h:128:VAL:CA	1:i:390:SER:OG	2.30	0.79
1:i:66:LEU:HD21	1:i:135:LYS:HG3	1.64	0.79
1:l:36:GLN:OE1	1:l:45:LYS:CD	2.30	0.79
1:l:59:GLN:HE21	1:l:278:SER:HB3	1.47	0.79
1:l:110:LEU:CD1	1:l:111:SER:N	2.39	0.79
1:a:277:ARG:CZ	1:a:348:ILE:HD13	2.13	0.79
1:a:452:LEU:CD2	1:l:446:VAL:HG21	2.11	0.79
1:b:128:VAL:CA	1:c:390:SER:OG	2.30	0.79
1:b:322:GLY:O	1:c:300:VAL:O	2.00	0.79
1:c:17:TYR:HH	1:c:24:ARG:HH21	1.27	0.79
1:c:277:ARG:HD3	1:c:348:ILE:HD11	1.62	0.79
1:d:36:GLN:OE1	1:d:45:LYS:CD	2.30	0.79
1:e:17:TYR:CD2	1:e:182:ARG:HD2	2.17	0.79
1:e:309:ARG:HH11	1:e:309:ARG:HG3	1.46	0.79
1:e:359:ASN:CB	1:f:380:GLU:OE1	2.30	0.79
1:e:368:ARG:CA	1:f:373:GLU:OE2	2.30	0.79
1:e:400:LEU:HD13	1:e:400:LEU:O	1.83	0.79
1:f:17:TYR:CD2	1:f:182:ARG:HD2	2.17	0.79
1:f:148:PRO:HD3	1:f:156:ASN:HD21	1.46	0.79
1:f:397:GLN:CG	1:f:426:ILE:HG23	2.03	0.79
1:g:397:GLN:CG	1:g:426:ILE:HG23	2.03	0.79
1:h:39:ILE:HD11	1:h:42:LEU:CD2	2.12	0.79
1:h:66:LEU:HD21	1:h:135:LYS:HG3	1.64	0.79
1:j:17:TYR:CD2	1:j:182:ARG:HD2	2.17	0.79
1:j:359:ASN:CG	1:k:380:GLU:OE1	2.24	0.79
1:a:258:ARG:C	1:l:132:GLU:HG2	2.07	0.79
1:a:323:ARG:CG	1:a:324:PRO:CD	2.57	0.79
1:b:17:TYR:CD2	1:b:182:ARG:HD2	2.17	0.79
1:c:342:LYS:NZ	1:d:343:ALA:HB1	1.97	0.79
1:e:126:TYR:HE1	1:e:158:MET:CE	1.70	0.79
1:f:331:GLN:NE2	1:g:335:GLN:CA	2.44	0.79
1:f:449:TRP:HB3	1:g:455:MET:CE	2.13	0.79
1:g:17:TYR:CB	1:g:180:VAL:CG1	2.45	0.79
1:g:17:TYR:CD2	1:g:182:ARG:HD2	2.17	0.79
1:g:128:VAL:CA	1:h:390:SER:OG	2.31	0.79
1:g:439:LEU:HB2	1:h:473:ALA:HB1	1.65	0.79
1:h:17:TYR:CD2	1:h:182:ARG:HD2	2.17	0.79
1:h:119:ASN:O	1:h:123:SER:HB2	1.81	0.79
1:i:17:TYR:CD2	1:i:182:ARG:HD2	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:39:ILE:HD11	1:i:42:LEU:CD2	2.12	0.79
1:i:132:GLU:HG2	1:j:258:ARG:C	2.07	0.79
1:j:66:LEU:HD21	1:j:135:LYS:HG3	1.64	0.79
1:l:268:TYR:O	1:l:269:ILE:C	2.23	0.79
1:a:59:GLN:HE21	1:a:278:SER:HB3	1.48	0.79
1:a:446:VAL:HG21	1:b:452:LEU:CD2	2.11	0.79
1:a:455:MET:CE	1:l:449:TRP:HB3	2.12	0.79
1:c:39:ILE:HD11	1:c:42:LEU:CD2	2.12	0.79
1:d:359:ASN:CG	1:e:380:GLU:OE1	2.26	0.79
1:d:400:LEU:O	1:d:400:LEU:HD13	1.83	0.79
1:e:110:LEU:HD12	1:e:111:SER:CA	2.13	0.79
1:j:319:PHE:CE2	1:k:311:LEU:HB3	2.18	0.79
1:k:227:LEU:CD2	1:k:243:THR:HA	2.11	0.79
1:l:227:LEU:CD2	1:l:243:THR:HA	2.12	0.79
1:b:292:ILE:HD12	1:c:288:LYS:NZ	1.97	0.79
1:b:359:ASN:CB	1:c:380:GLU:OE1	2.31	0.79
1:b:400:LEU:HD13	1:b:400:LEU:O	1.83	0.79
1:c:110:LEU:HD12	1:c:111:SER:CA	2.13	0.79
1:c:227:LEU:CD2	1:c:243:THR:HA	2.11	0.79
1:f:128:VAL:CA	1:g:390:SER:OG	2.31	0.79
1:h:36:GLN:OE1	1:h:45:LYS:CD	2.30	0.79
1:h:132:GLU:HG2	1:i:258:ARG:C	2.07	0.79
1:k:335:GLN:NE2	1:l:336:ALA:HB3	1.97	0.79
1:a:66:LEU:CD2	1:a:135:LYS:HD2	2.13	0.79
1:a:400:LEU:O	1:a:400:LEU:HD13	1.83	0.79
1:b:369:VAL:HA	1:b:370:THR:CB	2.09	0.79
1:c:36:GLN:OE1	1:c:45:LYS:CD	2.30	0.79
1:c:148:PRO:HD3	1:c:156:ASN:HD21	1.46	0.79
1:d:66:LEU:CD2	1:d:135:LYS:HD2	2.13	0.79
1:e:476:ILE:CD1	1:f:469:ARG:NH1	2.44	0.79
1:g:110:LEU:HD12	1:g:111:SER:CA	2.13	0.79
1:k:27:TYR:HD2	1:k:264:TYR:O	1.62	0.79
1:k:338:PHE:HA	1:l:340:VAL:CG2	2.12	0.79
1:l:39:ILE:HG22	1:l:63:ALA:HB1	1.63	0.79
1:l:277:ARG:CZ	1:l:348:ILE:HD13	2.12	0.79
1:l:309:ARG:HH11	1:l:309:ARG:HG3	1.46	0.79
1:a:17:TYR:CD2	1:a:182:ARG:HD2	2.17	0.79
1:c:39:ILE:HG22	1:c:63:ALA:HB1	1.63	0.79
1:c:400:LEU:O	1:c:400:LEU:HD13	1.83	0.79
1:d:289:MET:HE3	1:e:340:VAL:HB	1.63	0.79
1:e:148:PRO:HD3	1:e:156:ASN:HD21	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:38:THR:O	1:f:63:ALA:HB2	1.83	0.79
1:f:325:GLU:HA	1:g:299:LEU:CD1	2.12	0.79
1:g:17:TYR:HB2	1:g:180:VAL:HG13	1.63	0.79
1:g:368:ARG:CA	1:h:373:GLU:OE2	2.31	0.79
1:i:446:VAL:HG21	1:j:452:LEU:CD2	2.12	0.79
1:j:66:LEU:CD2	1:j:135:LYS:HD2	2.13	0.79
1:j:268:TYR:O	1:j:269:ILE:C	2.23	0.79
1:k:449:TRP:HB3	1:l:455:MET:CE	2.13	0.79
1:l:17:TYR:HH	1:l:24:ARG:NH2	1.78	0.79
1:l:38:THR:HG22	1:l:63:ALA:HA	1.64	0.79
1:b:17:TYR:HB2	1:b:180:VAL:HG13	1.63	0.79
1:b:110:LEU:HD12	1:b:111:SER:CA	2.13	0.79
1:b:289:MET:HE3	1:c:340:VAL:HB	1.64	0.79
1:c:277:ARG:CZ	1:c:348:ILE:HD13	2.13	0.79
1:c:305:ILE:HD12	1:c:323:ARG:HE	1.49	0.79
1:c:449:TRP:HB3	1:d:455:MET:CE	2.12	0.79
1:d:325:GLU:HA	1:e:299:LEU:CD1	2.13	0.79
1:d:338:PHE:HA	1:e:340:VAL:CG2	2.12	0.79
1:d:342:LYS:NZ	1:e:343:ALA:HB1	1.98	0.79
1:e:292:ILE:HD12	1:f:288:LYS:NZ	1.97	0.79
1:f:446:VAL:HG21	1:g:452:LEU:CD2	2.13	0.79
1:g:56:THR:HG21	1:h:273:LEU:HD12	1.65	0.79
1:g:66:LEU:CD2	1:g:135:LYS:HD2	2.13	0.79
1:g:449:TRP:HB3	1:h:455:MET:CE	2.13	0.79
1:h:292:ILE:HD12	1:i:288:LYS:NZ	1.97	0.79
1:h:323:ARG:CG	1:h:324:PRO:CD	2.57	0.79
1:i:128:VAL:CA	1:j:390:SER:OG	2.30	0.79
1:j:110:LEU:HD12	1:j:111:SER:CA	2.13	0.79
1:k:38:THR:HG22	1:k:63:ALA:HA	1.63	0.79
1:k:132:GLU:HG2	1:l:258:ARG:C	2.07	0.79
1:k:449:TRP:CA	1:l:455:MET:HE1	2.12	0.79
1:l:110:LEU:HD12	1:l:111:SER:H	1.48	0.79
1:a:17:TYR:HB2	1:a:180:VAL:HG13	1.63	0.78
1:a:110:LEU:HD12	1:a:111:SER:H	1.48	0.78
1:a:352:LEU:O	1:a:352:LEU:HD13	1.83	0.78
1:a:368:ARG:CA	1:b:373:GLU:OE2	2.26	0.78
1:a:460:ASP:OD2	1:l:464:ALA:HB2	1.83	0.78
1:b:36:GLN:OE1	1:b:45:LYS:CD	2.30	0.78
1:b:352:LEU:O	1:b:352:LEU:HD13	1.83	0.78
1:b:481:ILE:CD1	1:c:466:ILE:HG12	1.93	0.78
1:c:449:TRP:CA	1:d:455:MET:HE1	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:277:ARG:CZ	1:d:348:ILE:HD13	2.13	0.78
1:f:38:THR:HG22	1:f:63:ALA:HA	1.64	0.78
1:f:66:LEU:CD2	1:f:135:LYS:HD2	2.13	0.78
1:f:126:TYR:HE1	1:f:158:MET:CE	1.70	0.78
1:g:66:LEU:HD21	1:g:135:LYS:HG3	1.64	0.78
1:g:132:GLU:HG2	1:h:258:ARG:C	2.08	0.78
1:g:352:LEU:O	1:g:352:LEU:HD13	1.83	0.78
1:g:419:LYS:HE3	1:g:419:LYS:N	1.99	0.78
1:h:110:LEU:HD12	1:h:111:SER:CA	2.13	0.78
1:h:322:GLY:O	1:i:300:VAL:O	2.01	0.78
1:j:359:ASN:CB	1:k:380:GLU:OE1	2.31	0.78
1:b:132:GLU:HG2	1:c:258:ARG:C	2.08	0.78
1:b:449:TRP:C	1:c:455:MET:HE2	2.06	0.78
1:d:38:THR:O	1:d:63:ALA:HB2	1.84	0.78
1:e:132:GLU:HG2	1:f:258:ARG:C	2.07	0.78
1:g:342:LYS:NZ	1:h:343:ALA:HB1	1.99	0.78
1:g:400:LEU:O	1:g:400:LEU:HD13	1.83	0.78
1:g:449:TRP:CA	1:h:455:MET:HE1	2.12	0.78
1:h:397:GLN:CG	1:h:426:ILE:HG23	2.03	0.78
1:i:66:LEU:CD2	1:i:135:LYS:HD2	2.13	0.78
1:i:292:ILE:HD12	1:j:288:LYS:NZ	1.98	0.78
1:j:59:GLN:HE21	1:j:278:SER:HB3	1.47	0.78
1:j:132:GLU:HG2	1:k:258:ARG:C	2.08	0.78
1:k:110:LEU:HD12	1:k:111:SER:H	1.48	0.78
1:k:277:ARG:CZ	1:k:348:ILE:HD13	2.13	0.78
1:k:352:LEU:O	1:k:352:LEU:HD13	1.83	0.78
1:l:110:LEU:HD12	1:l:111:SER:CA	2.13	0.78
1:b:66:LEU:CD2	1:b:135:LYS:HD2	2.13	0.78
1:c:17:TYR:CD2	1:c:182:ARG:HD2	2.17	0.78
1:c:292:ILE:HD12	1:d:288:LYS:NZ	1.98	0.78
1:c:319:PHE:CE2	1:d:311:LEU:HB3	2.18	0.78
1:d:39:ILE:HD11	1:d:42:LEU:CD2	2.12	0.78
1:d:148:PRO:HD3	1:d:156:ASN:HD21	1.46	0.78
1:d:277:ARG:HD3	1:d:348:ILE:HD11	1.62	0.78
1:e:38:THR:O	1:e:63:ALA:HB2	1.83	0.78
1:e:39:ILE:HG22	1:e:63:ALA:HB1	1.62	0.78
1:e:359:ASN:HD21	1:f:380:GLU:HB3	1.45	0.78
1:e:397:GLN:CG	1:e:426:ILE:HG23	2.03	0.78
1:f:132:GLU:HG2	1:g:258:ARG:C	2.07	0.78
1:f:342:LYS:NZ	1:g:343:ALA:HB1	1.98	0.78
1:h:38:THR:O	1:h:63:ALA:HB2	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:74:MET:SD	1:h:131:PHE:HD2	2.06	0.78
1:i:59:GLN:HE21	1:i:278:SER:HB3	1.47	0.78
1:i:342:LYS:NZ	1:j:343:ALA:HB1	1.97	0.78
1:i:449:TRP:C	1:j:455:MET:HE2	2.08	0.78
1:j:38:THR:O	1:j:63:ALA:HB2	1.84	0.78
1:j:292:ILE:HD12	1:k:288:LYS:HZ2	1.46	0.78
1:k:66:LEU:HD21	1:k:135:LYS:HG3	1.64	0.78
1:k:110:LEU:CD1	1:k:111:SER:N	2.39	0.78
1:l:352:LEU:HD13	1:l:352:LEU:O	1.83	0.78
1:a:36:GLN:OE1	1:a:45:LYS:CD	2.30	0.78
1:a:320:VAL:HG12	1:b:297:ILE:CG2	2.02	0.78
1:b:110:LEU:HD12	1:b:111:SER:H	1.48	0.78
1:b:335:GLN:NE2	1:c:336:ALA:HB3	1.96	0.78
1:b:419:LYS:HE3	1:b:419:LYS:N	1.99	0.78
1:b:449:TRP:HB3	1:c:455:MET:CE	2.14	0.78
1:c:38:THR:O	1:c:63:ALA:HB2	1.84	0.78
1:d:446:VAL:HG21	1:e:452:LEU:CD2	2.13	0.78
1:e:277:ARG:CZ	1:e:348:ILE:HD13	2.13	0.78
1:f:27:TYR:HD2	1:f:264:TYR:O	1.62	0.78
1:f:268:TYR:O	1:f:269:ILE:C	2.23	0.78
1:f:352:LEU:O	1:f:352:LEU:HD13	1.83	0.78
1:g:39:ILE:HD11	1:g:42:LEU:CD2	2.12	0.78
1:h:289:MET:HE3	1:i:340:VAL:HB	1.65	0.78
1:h:305:ILE:HD12	1:h:323:ARG:HE	1.49	0.78
1:h:400:LEU:O	1:h:400:LEU:HD13	1.83	0.78
1:i:38:THR:HG22	1:i:63:ALA:HA	1.64	0.78
1:i:74:MET:SD	1:i:131:PHE:HD2	2.06	0.78
1:i:258:ARG:HG3	1:i:258:ARG:NH1	1.94	0.78
1:i:305:ILE:HD12	1:i:323:ARG:HE	1.48	0.78
1:j:419:LYS:HE3	1:j:419:LYS:N	1.98	0.78
1:a:132:GLU:HG2	1:b:258:ARG:C	2.08	0.78
1:a:343:ALA:HB1	1:l:342:LYS:NZ	1.98	0.78
1:d:86:LEU:HD13	1:d:422:VAL:HG11	1.65	0.78
1:d:442:LEU:HD13	1:d:442:LEU:O	1.84	0.78
1:f:144:LEU:HD22	1:f:144:LEU:H	1.49	0.78
1:g:319:PHE:CE2	1:h:311:LEU:HB3	2.18	0.78
1:h:319:PHE:CE2	1:i:311:LEU:CB	2.67	0.78
1:i:17:TYR:HE2	1:i:182:ARG:CD	1.96	0.78
1:i:144:LEU:H	1:i:144:LEU:HD22	1.49	0.78
1:j:56:THR:HG21	1:k:273:LEU:HD12	1.65	0.78
1:j:342:LYS:NZ	1:k:343:ALA:HB1	1.99	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:258:ARG:NH1	1:k:391:ILE:CD1	2.47	0.78
1:k:292:ILE:HD12	1:l:288:LYS:NZ	1.98	0.78
1:k:439:LEU:HB2	1:l:473:ALA:HB1	1.64	0.78
1:k:442:LEU:O	1:k:442:LEU:HD13	1.84	0.78
1:l:66:LEU:CD2	1:l:135:LYS:HD2	2.13	0.78
1:l:259:LEU:HD22	1:l:260:ASP:HA	1.66	0.78
1:a:68:ASN:HD21	1:a:358:LEU:HA	1.48	0.78
1:b:277:ARG:CZ	1:b:348:ILE:HD13	2.14	0.78
1:c:66:LEU:CD2	1:c:135:LYS:HD2	2.13	0.78
1:c:352:LEU:O	1:c:352:LEU:HD13	1.83	0.78
1:d:80:MET:HG3	1:d:127:ARG:HH21	1.44	0.78
1:e:64:ARG:HD2	1:e:64:ARG:C	2.09	0.78
1:f:74:MET:SD	1:f:131:PHE:HD2	2.06	0.78
1:h:17:TYR:HE2	1:h:182:ARG:CD	1.96	0.78
1:h:352:LEU:O	1:h:352:LEU:HD13	1.83	0.78
1:i:481:ILE:HD13	1:j:466:ILE:HD13	1.61	0.78
1:j:38:THR:HG22	1:j:63:ALA:HA	1.64	0.78
1:k:476:ILE:CD1	1:l:469:ARG:NH1	2.46	0.78
1:l:442:LEU:HD13	1:l:442:LEU:O	1.84	0.78
1:a:259:LEU:HD22	1:a:260:ASP:HA	1.66	0.78
1:b:464:ALA:HB2	1:c:460:ASP:OD2	1.84	0.78
1:c:17:TYR:HB2	1:c:180:VAL:HG13	1.63	0.78
1:c:442:LEU:O	1:c:442:LEU:HD13	1.84	0.78
1:d:309:ARG:HH11	1:d:309:ARG:HG3	1.46	0.78
1:d:419:LYS:HE3	1:d:419:LYS:N	1.99	0.78
1:e:258:ARG:NH1	1:e:391:ILE:CD1	2.47	0.78
1:e:419:LYS:HE3	1:e:419:LYS:N	1.99	0.78
1:e:480:GLY:O	1:f:465:MET:CG	2.31	0.78
1:f:400:LEU:O	1:f:400:LEU:HD13	1.83	0.78
1:g:259:LEU:HD22	1:g:260:ASP:HA	1.66	0.78
1:g:292:ILE:HD12	1:h:288:LYS:NZ	1.98	0.78
1:h:38:THR:HG22	1:h:63:ALA:HA	1.64	0.78
1:h:342:LYS:NZ	1:i:343:ALA:HB1	1.99	0.78
1:h:419:LYS:HE3	1:h:419:LYS:N	1.99	0.78
1:h:449:TRP:HB3	1:i:455:MET:CE	2.13	0.78
1:i:400:LEU:O	1:i:400:LEU:HD13	1.83	0.78
1:j:39:ILE:HD11	1:j:42:LEU:CD2	2.12	0.78
1:j:352:LEU:O	1:j:352:LEU:HD13	1.83	0.78
1:j:400:LEU:O	1:j:400:LEU:HD13	1.83	0.78
1:k:259:LEU:HD22	1:k:260:ASP:HA	1.66	0.78
1:k:400:LEU:O	1:k:400:LEU:HD13	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:464:ALA:HB2	1:l:460:ASP:OD2	1.84	0.78
1:a:110:LEU:HD12	1:a:111:SER:CA	2.13	0.78
1:a:258:ARG:NH1	1:a:391:ILE:CD1	2.47	0.78
1:a:311:LEU:HB3	1:l:319:PHE:CE2	2.18	0.78
1:a:340:VAL:HB	1:l:289:MET:HE3	1.65	0.78
1:b:259:LEU:HD22	1:b:260:ASP:HA	1.66	0.78
1:c:66:LEU:HD21	1:c:135:LYS:HG3	1.64	0.78
1:d:110:LEU:HD12	1:d:111:SER:CA	2.13	0.78
1:e:66:LEU:CD2	1:e:135:LYS:HD2	2.13	0.78
1:e:259:LEU:HD22	1:e:260:ASP:HA	1.66	0.78
1:e:305:ILE:HD12	1:e:323:ARG:HE	1.49	0.78
1:f:110:LEU:HD12	1:f:111:SER:CA	2.13	0.78
1:f:259:LEU:HD22	1:f:260:ASP:HA	1.66	0.78
1:f:319:PHE:CE2	1:g:311:LEU:HB3	2.19	0.78
1:g:74:MET:SD	1:g:131:PHE:HD2	2.06	0.78
1:g:258:ARG:HG3	1:g:258:ARG:NH1	1.95	0.78
1:g:258:ARG:NH1	1:g:391:ILE:CD1	2.47	0.78
1:g:305:ILE:HD12	1:g:323:ARG:HE	1.49	0.78
1:i:110:LEU:HD12	1:i:111:SER:CA	2.13	0.78
1:j:335:GLN:NE2	1:k:336:ALA:HB3	1.98	0.78
1:k:419:LYS:HE3	1:k:419:LYS:N	1.99	0.78
1:l:258:ARG:NH1	1:l:391:ILE:CD1	2.47	0.78
1:l:419:LYS:HE3	1:l:419:LYS:N	1.99	0.78
1:a:38:THR:O	1:a:63:ALA:HB2	1.84	0.78
1:a:370:THR:O	1:a:373:GLU:HB3	1.84	0.78
1:a:419:LYS:HE3	1:a:419:LYS:N	1.99	0.78
1:b:66:LEU:HD21	1:b:135:LYS:HG3	1.64	0.78
1:b:449:TRP:CA	1:c:455:MET:HE1	2.14	0.78
1:c:259:LEU:HD22	1:c:260:ASP:HA	1.66	0.78
1:d:128:VAL:CA	1:e:390:SER:OG	2.32	0.78
1:d:259:LEU:HD22	1:d:260:ASP:HA	1.66	0.78
1:e:352:LEU:O	1:e:352:LEU:HD13	1.83	0.78
1:f:17:TYR:HB2	1:f:180:VAL:HG13	1.63	0.78
1:f:354:PHE:O	1:f:357:MET:HE2	1.83	0.78
1:g:38:THR:HG22	1:g:63:ALA:HA	1.64	0.78
1:g:268:TYR:O	1:g:269:ILE:C	2.23	0.78
1:h:449:TRP:CA	1:i:455:MET:HE1	2.12	0.78
1:i:323:ARG:CG	1:i:324:PRO:CD	2.57	0.78
1:j:74:MET:SD	1:j:131:PHE:HD2	2.06	0.78
1:j:277:ARG:CZ	1:j:348:ILE:HD13	2.14	0.78
1:j:319:PHE:CE2	1:k:311:LEU:CB	2.67	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:446:VAL:HG21	1:k:452:LEU:CD2	2.12	0.78
1:j:449:TRP:C	1:k:455:MET:HE2	2.08	0.78
1:k:38:THR:O	1:k:63:ALA:HB2	1.83	0.78
1:k:66:LEU:CD2	1:k:135:LYS:HD2	2.13	0.78
1:k:289:MET:HE3	1:l:340:VAL:HB	1.66	0.78
1:l:17:TYR:HB2	1:l:180:VAL:HG13	1.63	0.78
1:l:38:THR:O	1:l:63:ALA:HB2	1.83	0.78
1:a:289:MET:HE3	1:b:340:VAL:HB	1.65	0.78
1:a:305:ILE:HD12	1:a:323:ARG:HE	1.48	0.78
1:b:258:ARG:NH1	1:b:391:ILE:CD1	2.47	0.78
1:c:59:GLN:HE21	1:c:278:SER:HB3	1.47	0.78
1:c:335:GLN:NE2	1:d:336:ALA:HB3	1.99	0.78
1:d:64:ARG:HD2	1:d:64:ARG:C	2.09	0.78
1:d:72:LYS:HA	1:d:72:LYS:HZ2	1.47	0.78
1:d:126:TYR:HE1	1:d:158:MET:CE	1.70	0.78
1:d:258:ARG:NH1	1:d:391:ILE:CD1	2.47	0.78
1:g:476:ILE:CD1	1:h:469:ARG:NH1	2.46	0.78
1:h:64:ARG:HD2	1:h:64:ARG:C	2.09	0.78
1:h:258:ARG:NH1	1:h:391:ILE:CD1	2.47	0.78
1:h:442:LEU:O	1:h:442:LEU:HD13	1.84	0.78
1:i:277:ARG:CZ	1:i:348:ILE:HD13	2.13	0.78
1:j:17:TYR:HE2	1:j:182:ARG:CD	1.96	0.78
1:j:305:ILE:HD12	1:j:323:ARG:HE	1.49	0.78
1:j:442:LEU:O	1:j:442:LEU:HD13	1.84	0.78
1:k:305:ILE:HD12	1:k:323:ARG:HE	1.49	0.78
1:a:66:LEU:HD21	1:a:135:LYS:HG3	1.64	0.77
1:b:38:THR:O	1:b:63:ALA:HB2	1.84	0.77
1:b:227:LEU:CD2	1:b:243:THR:HA	2.12	0.77
1:c:354:PHE:O	1:c:357:MET:HE2	1.83	0.77
1:c:449:TRP:C	1:d:455:MET:HE2	2.06	0.77
1:d:144:LEU:H	1:d:144:LEU:HD22	1.49	0.77
1:e:442:LEU:O	1:e:442:LEU:HD13	1.84	0.77
1:g:144:LEU:H	1:g:144:LEU:HD22	1.49	0.77
1:i:442:LEU:O	1:i:442:LEU:HD13	1.84	0.77
1:j:128:VAL:CA	1:k:390:SER:OG	2.31	0.77
1:j:292:ILE:HD12	1:k:288:LYS:NZ	1.98	0.77
1:j:322:GLY:O	1:k:300:VAL:O	2.02	0.77
1:k:64:ARG:HD2	1:k:64:ARG:C	2.09	0.77
1:k:319:PHE:CE2	1:l:311:LEU:HB3	2.18	0.77
1:a:86:LEU:HD13	1:a:422:VAL:HG11	1.66	0.77
1:c:86:LEU:HD13	1:c:422:VAL:HG11	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:132:GLU:HG2	1:e:258:ARG:C	2.08	0.77
1:d:268:TYR:O	1:d:269:ILE:C	2.23	0.77
1:f:277:ARG:CZ	1:f:348:ILE:HD13	2.13	0.77
1:h:66:LEU:CD2	1:h:135:LYS:HD2	2.13	0.77
1:h:259:LEU:HD22	1:h:260:ASP:HA	1.66	0.77
1:h:480:GLY:O	1:i:465:MET:CG	2.33	0.77
1:i:259:LEU:HD22	1:i:260:ASP:HA	1.66	0.77
1:j:64:ARG:HD2	1:j:64:ARG:C	2.09	0.77
1:j:258:ARG:NH1	1:j:391:ILE:CD1	2.47	0.77
1:j:259:LEU:HD22	1:j:260:ASP:HA	1.66	0.77
1:j:449:TRP:HB3	1:k:455:MET:CE	2.13	0.77
1:a:288:LYS:NZ	1:l:292:ILE:HD12	1.98	0.77
1:a:300:VAL:O	1:l:322:GLY:O	2.03	0.77
1:c:64:ARG:HD2	1:c:64:ARG:C	2.09	0.77
1:c:258:ARG:NH1	1:c:391:ILE:CD1	2.47	0.77
1:c:464:ALA:HB2	1:d:460:ASP:OD2	1.83	0.77
1:e:39:ILE:HD11	1:e:42:LEU:CD2	2.12	0.77
1:e:86:LEU:HD13	1:e:422:VAL:HG11	1.66	0.77
1:e:368:ARG:C	1:f:373:GLU:OE2	2.27	0.77
1:f:64:ARG:HD2	1:f:64:ARG:C	2.09	0.77
1:f:66:LEU:HD21	1:f:135:LYS:HG3	1.64	0.77
1:f:368:ARG:HA	1:g:373:GLU:OE2	1.85	0.77
1:g:17:TYR:HE2	1:g:182:ARG:CD	1.96	0.77
1:g:38:THR:O	1:g:63:ALA:HB2	1.83	0.77
1:g:289:MET:HE3	1:h:340:VAL:HB	1.66	0.77
1:i:83:TRP:CD1	1:i:118:MET:CE	2.59	0.77
1:i:370:THR:OG1	1:i:371:ALA:N	2.16	0.77
1:j:406:LYS:HA	1:j:406:LYS:HZ3	1.47	0.77
1:l:305:ILE:HD12	1:l:323:ARG:HE	1.49	0.77
1:a:292:ILE:HD12	1:b:288:LYS:NZ	1.99	0.77
1:a:369:VAL:CA	1:a:370:THR:HB	2.12	0.77
1:b:64:ARG:HD2	1:b:64:ARG:C	2.09	0.77
1:b:305:ILE:HD12	1:b:323:ARG:HE	1.49	0.77
1:d:66:LEU:HD21	1:d:135:LYS:HG3	1.64	0.77
1:d:292:ILE:HD12	1:e:288:LYS:NZ	1.99	0.77
1:f:258:ARG:NH1	1:f:391:ILE:CD1	2.47	0.77
1:g:322:GLY:O	1:h:300:VAL:O	2.03	0.77
1:g:442:LEU:HD13	1:g:442:LEU:O	1.84	0.77
1:i:54:TYR:CE2	1:i:56:THR:HG22	2.20	0.77
1:a:336:ALA:HB3	1:l:335:GLN:NE2	1.98	0.77
1:b:86:LEU:HD13	1:b:422:VAL:HG11	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:162:ARG:CD	1:f:260:ASP:CG	2.58	0.77
1:f:305:ILE:HD12	1:f:323:ARG:HE	1.49	0.77
1:f:419:LYS:HE3	1:f:419:LYS:N	1.99	0.77
1:h:27:TYR:CE2	1:h:263:SER:HB3	2.20	0.77
1:i:419:LYS:HE3	1:i:419:LYS:N	1.99	0.77
1:j:144:LEU:H	1:j:144:LEU:HD22	1.49	0.77
1:j:464:ALA:HB2	1:k:460:ASP:OD2	1.84	0.77
1:k:39:ILE:HD11	1:k:42:LEU:CD2	2.12	0.77
1:k:342:LYS:NZ	1:l:343:ALA:HB1	1.99	0.77
1:l:64:ARG:HD2	1:l:64:ARG:C	2.09	0.77
1:l:400:LEU:O	1:l:400:LEU:HD13	1.83	0.77
1:a:449:TRP:CA	1:b:455:MET:HE1	2.14	0.77
1:a:464:ALA:HB2	1:b:460:ASP:OD2	1.84	0.77
1:b:342:LYS:NZ	1:c:343:ALA:HB1	1.99	0.77
1:e:342:LYS:NZ	1:f:343:ALA:HB1	2.00	0.77
1:g:359:ASN:ND2	1:h:380:GLU:CB	2.41	0.77
1:g:480:GLY:O	1:h:465:MET:CG	2.33	0.77
1:i:319:PHE:CE2	1:j:311:LEU:HB3	2.19	0.77
1:i:368:ARG:HA	1:j:373:GLU:OE2	1.85	0.77
1:i:395:GLU:C	1:i:399:PRO:HG2	2.10	0.77
1:k:322:GLY:O	1:l:300:VAL:O	2.03	0.77
1:l:74:MET:SD	1:l:131:PHE:HD2	2.06	0.77
1:l:86:LEU:HD13	1:l:422:VAL:HG11	1.65	0.77
1:a:442:LEU:O	1:a:442:LEU:HD13	1.84	0.77
1:c:322:GLY:O	1:d:300:VAL:O	2.02	0.77
1:d:397:GLN:CG	1:d:426:ILE:HG23	2.03	0.77
1:e:17:TYR:HB2	1:e:180:VAL:HG13	1.63	0.77
1:e:74:MET:SD	1:e:131:PHE:HD2	2.06	0.77
1:f:464:ALA:HB2	1:g:460:ASP:OD2	1.83	0.77
1:g:27:TYR:HD2	1:g:264:TYR:O	1.62	0.77
1:g:395:GLU:C	1:g:399:PRO:HG2	2.10	0.77
1:h:395:GLU:C	1:h:399:PRO:HG2	2.10	0.77
1:i:27:TYR:CE2	1:i:263:SER:HB3	2.20	0.77
1:i:38:THR:O	1:i:63:ALA:HB2	1.83	0.77
1:i:64:ARG:HD2	1:i:64:ARG:C	2.09	0.77
1:j:110:LEU:CD1	1:j:111:SER:N	2.39	0.77
1:j:481:ILE:HD13	1:k:466:ILE:HD13	1.62	0.77
1:k:110:LEU:HD12	1:k:111:SER:CA	2.13	0.77
1:l:54:TYR:CE2	1:l:56:THR:HG22	2.20	0.77
1:a:244:TYR:CD1	1:a:249:CYS:O	2.38	0.77
1:a:288:LYS:HZ2	1:l:292:ILE:HD12	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:455:MET:HE1	1:l:449:TRP:CA	2.13	0.77
1:b:442:LEU:O	1:b:442:LEU:HD13	1.84	0.77
1:c:289:MET:HE3	1:d:340:VAL:HB	1.65	0.77
1:d:17:TYR:HB2	1:d:180:VAL:HG13	1.63	0.77
1:d:359:ASN:CB	1:e:380:GLU:OE1	2.33	0.77
1:h:86:LEU:HD13	1:h:422:VAL:HG11	1.66	0.77
1:h:368:ARG:CA	1:i:373:GLU:OE2	2.33	0.77
1:i:258:ARG:NH1	1:i:391:ILE:CD1	2.47	0.77
1:j:395:GLU:C	1:j:399:PRO:HG2	2.10	0.77
1:k:319:PHE:CE2	1:l:311:LEU:CB	2.68	0.77
1:k:323:ARG:CG	1:k:324:PRO:CD	2.57	0.77
1:b:268:TYR:O	1:b:269:ILE:C	2.23	0.77
1:d:481:ILE:HD13	1:e:466:ILE:HD13	1.63	0.77
1:e:61:VAL:HB	1:f:351:ARG:HD2	1.67	0.77
1:e:277:ARG:HD3	1:e:348:ILE:HD11	1.62	0.77
1:f:395:GLU:C	1:f:399:PRO:HG2	2.10	0.77
1:f:442:LEU:O	1:f:442:LEU:HD13	1.84	0.77
1:g:359:ASN:OD1	1:h:380:GLU:CD	2.28	0.77
1:j:359:ASN:OD1	1:k:380:GLU:CD	2.28	0.77
1:k:74:MET:SD	1:k:131:PHE:HD2	2.06	0.77
1:a:148:PRO:CG	1:a:156:ASN:ND2	2.48	0.77
1:a:319:PHE:CE2	1:b:311:LEU:HB3	2.20	0.77
1:b:148:PRO:CG	1:b:156:ASN:ND2	2.48	0.77
1:b:395:GLU:C	1:b:399:PRO:HG2	2.10	0.77
1:c:162:ARG:CD	1:d:260:ASP:HB2	2.14	0.77
1:c:277:ARG:NH1	1:c:351:ARG:HH22	1.83	0.77
1:c:370:THR:OG1	1:c:371:ALA:N	2.16	0.77
1:c:419:LYS:HE3	1:c:419:LYS:N	1.99	0.77
1:d:146:TYR:HH	1:d:251:TYR:HE2	1.33	0.77
1:d:319:PHE:CE2	1:e:311:LEU:HB3	2.20	0.77
1:e:66:LEU:HD21	1:e:135:LYS:HG3	1.64	0.77
1:e:319:PHE:CE2	1:f:311:LEU:CB	2.67	0.77
1:e:323:ARG:CG	1:e:324:PRO:CD	2.57	0.77
1:e:449:TRP:HB3	1:f:455:MET:CE	2.14	0.77
1:e:485:GLU:OE1	1:e:485:GLU:N	2.17	0.77
1:f:39:ILE:HD11	1:f:42:LEU:CD2	2.12	0.77
1:h:144:LEU:HD22	1:h:144:LEU:H	1.49	0.77
1:h:476:ILE:CD1	1:i:469:ARG:NH1	2.46	0.77
1:i:352:LEU:O	1:i:352:LEU:HD13	1.83	0.77
1:b:61:VAL:HB	1:c:351:ARG:HD2	1.68	0.76
1:b:128:VAL:HG22	1:c:258:ARG:HH12	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:244:TYR:CD1	1:b:249:CYS:O	2.38	0.76
1:c:476:ILE:CD1	1:d:469:ARG:NH1	2.48	0.76
1:d:289:MET:CE	1:e:340:VAL:HB	2.16	0.76
1:d:352:LEU:HD13	1:d:352:LEU:O	1.83	0.76
1:e:162:ARG:CG	1:f:260:ASP:OD2	2.33	0.76
1:f:86:LEU:HD13	1:f:422:VAL:HG11	1.66	0.76
1:f:292:ILE:HD12	1:g:288:LYS:NZ	1.99	0.76
1:f:485:GLU:OE1	1:f:485:GLU:N	2.17	0.76
1:g:64:ARG:HD2	1:g:64:ARG:C	2.09	0.76
1:h:277:ARG:CZ	1:h:348:ILE:HD13	2.14	0.76
1:h:359:ASN:CB	1:i:380:GLU:OE1	2.33	0.76
1:i:354:PHE:O	1:i:357:MET:HE2	1.83	0.76
1:j:354:PHE:O	1:j:357:MET:HE2	1.85	0.76
1:k:17:TYR:HB2	1:k:180:VAL:HG13	1.63	0.76
1:k:17:TYR:HE2	1:k:182:ARG:CD	1.96	0.76
1:l:66:LEU:HD21	1:l:135:LYS:HG3	1.64	0.76
1:l:244:TYR:CD1	1:l:249:CYS:O	2.38	0.76
1:a:64:ARG:HD2	1:a:64:ARG:C	2.09	0.76
1:b:485:GLU:OE1	1:b:485:GLU:N	2.17	0.76
1:d:290:SER:HA	1:e:284:GLU:HG3	0.78	0.76
1:d:305:ILE:HD12	1:d:323:ARG:HE	1.49	0.76
1:e:292:ILE:HD12	1:f:288:LYS:HZ2	1.48	0.76
1:e:395:GLU:C	1:e:399:PRO:HG2	2.10	0.76
1:f:54:TYR:CE2	1:f:56:THR:HG22	2.20	0.76
1:g:126:TYR:O	1:g:129:THR:CG2	2.34	0.76
1:g:126:TYR:HE1	1:g:158:MET:CE	1.70	0.76
1:i:80:MET:HG3	1:i:127:ARG:HH21	1.44	0.76
1:i:464:ALA:HB2	1:j:460:ASP:OD2	1.84	0.76
1:j:27:TYR:CE2	1:j:263:SER:HB3	2.20	0.76
1:j:290:SER:HA	1:k:284:GLU:HG3	0.77	0.76
1:a:395:GLU:C	1:a:399:PRO:HG2	2.10	0.76
1:c:148:PRO:CG	1:c:156:ASN:ND2	2.49	0.76
1:c:395:GLU:C	1:c:399:PRO:HG2	2.10	0.76
1:c:485:GLU:OE1	1:c:485:GLU:N	2.17	0.76
1:e:325:GLU:H	1:f:299:LEU:HD13	1.49	0.76
1:e:383:ASP:O	1:e:384:THR:C	2.28	0.76
1:g:27:TYR:CE2	1:g:263:SER:HB3	2.20	0.76
1:g:354:PHE:O	1:g:357:MET:HE2	1.84	0.76
1:g:446:VAL:HG21	1:h:452:LEU:HD21	1.62	0.76
1:l:144:LEU:H	1:l:144:LEU:HD22	1.49	0.76
1:l:148:PRO:CG	1:l:156:ASN:ND2	2.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:348:ILE:HD13	1:l:351:ARG:NH2	2.01	0.76
1:a:258:ARG:HH12	1:l:128:VAL:HG22	1.50	0.76
1:b:144:LEU:H	1:b:144:LEU:HD22	1.49	0.76
1:b:476:ILE:CD1	1:c:469:ARG:NH1	2.47	0.76
1:d:148:PRO:CG	1:d:156:ASN:ND2	2.48	0.76
1:e:126:TYR:O	1:e:129:THR:CG2	2.34	0.76
1:f:148:PRO:CG	1:f:156:ASN:ND2	2.48	0.76
1:g:368:ARG:C	1:h:373:GLU:OE2	2.29	0.76
1:h:464:ALA:HB2	1:i:460:ASP:OD2	1.84	0.76
1:h:481:ILE:HD11	1:i:466:ILE:CD1	1.73	0.76
1:i:68:ASN:HD22	1:i:358:LEU:CD2	1.98	0.76
1:i:148:PRO:CG	1:i:156:ASN:ND2	2.48	0.76
1:k:59:GLN:HE21	1:k:278:SER:HB3	1.48	0.76
1:a:485:GLU:OE1	1:a:485:GLU:N	2.17	0.76
1:g:277:ARG:CZ	1:g:348:ILE:HD13	2.14	0.76
1:g:319:PHE:CE2	1:h:311:LEU:CB	2.68	0.76
1:h:27:TYR:HD2	1:h:264:TYR:O	1.62	0.76
1:i:126:TYR:O	1:i:129:THR:CG2	2.34	0.76
1:i:128:VAL:HG22	1:j:258:ARG:HH12	1.51	0.76
1:k:335:GLN:OE1	1:k:335:GLN:N	2.19	0.76
1:k:395:GLU:C	1:k:399:PRO:HG2	2.10	0.76
1:a:335:GLN:NE2	1:b:336:ALA:HB3	2.00	0.76
1:a:469:ARG:NH1	1:l:476:ILE:CD1	2.48	0.76
1:b:359:ASN:HD21	1:c:380:GLU:HB3	1.45	0.76
1:b:439:LEU:HB2	1:c:473:ALA:HB1	1.66	0.76
1:c:54:TYR:CE2	1:c:56:THR:HG22	2.20	0.76
1:c:61:VAL:HB	1:d:351:ARG:HD2	1.68	0.76
1:c:74:MET:SD	1:c:131:PHE:HD2	2.06	0.76
1:c:244:TYR:CD1	1:c:249:CYS:O	2.38	0.76
1:d:368:ARG:HA	1:e:373:GLU:OE2	1.85	0.76
1:e:481:ILE:CD1	1:f:466:ILE:HG12	1.92	0.76
1:f:319:PHE:CE2	1:g:311:LEU:CB	2.67	0.76
1:f:368:ARG:C	1:g:373:GLU:OE2	2.28	0.76
1:g:290:SER:HA	1:h:284:GLU:HG3	0.77	0.76
1:g:485:GLU:N	1:g:485:GLU:OE1	2.17	0.76
1:h:148:PRO:CG	1:h:156:ASN:ND2	2.48	0.76
1:i:258:ARG:NH1	1:i:391:ILE:HD12	2.01	0.76
1:i:322:GLY:O	1:j:300:VAL:O	2.04	0.76
1:j:277:ARG:CG	1:j:348:ILE:HG12	2.16	0.76
1:k:86:LEU:HD13	1:k:422:VAL:HG11	1.66	0.76
1:a:260:ASP:OD2	1:l:162:ARG:CG	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:323:ARG:CG	1:b:324:PRO:CD	2.57	0.76
1:c:144:LEU:HD22	1:c:144:LEU:H	1.49	0.76
1:d:277:ARG:NH1	1:d:351:ARG:HH22	1.84	0.76
1:e:277:ARG:CG	1:e:348:ILE:HG12	2.16	0.76
1:g:277:ARG:CG	1:g:348:ILE:HG12	2.16	0.76
1:h:162:ARG:CG	1:i:260:ASP:OD2	2.33	0.76
1:i:162:ARG:CG	1:j:260:ASP:OD2	2.34	0.76
1:k:144:LEU:HD22	1:k:144:LEU:H	1.49	0.76
1:k:277:ARG:CG	1:k:348:ILE:HG12	2.16	0.76
1:a:311:LEU:CB	1:l:319:PHE:CE2	2.67	0.76
1:a:380:GLU:CD	1:l:359:ASN:OD1	2.28	0.76
1:c:439:LEU:HB2	1:d:473:ALA:HB1	1.66	0.76
1:d:383:ASP:O	1:d:384:THR:C	2.28	0.76
1:d:485:GLU:OE1	1:d:485:GLU:N	2.17	0.76
1:e:17:TYR:HH	1:e:24:ARG:HH21	1.31	0.76
1:e:144:LEU:HD22	1:e:144:LEU:H	1.49	0.76
1:h:277:ARG:CG	1:h:348:ILE:HG12	2.16	0.76
1:i:406:LYS:HA	1:i:406:LYS:HZ3	1.48	0.76
1:k:258:ARG:NH1	1:k:391:ILE:HD12	2.01	0.76
1:k:290:SER:HA	1:l:284:GLU:HG3	0.78	0.76
1:l:17:TYR:HE2	1:l:182:ARG:CD	1.96	0.76
1:a:277:ARG:CG	1:a:348:ILE:HG12	2.16	0.76
1:a:473:ALA:HB1	1:l:439:LEU:HB2	1.66	0.76
1:c:162:ARG:CD	1:d:260:ASP:CG	2.59	0.76
1:c:385:LEU:HD12	1:c:388:VAL:HG21	1.68	0.76
1:d:385:LEU:HD12	1:d:388:VAL:HG21	1.68	0.76
1:d:395:GLU:C	1:d:399:PRO:HG2	2.10	0.76
1:e:331:GLN:NE2	1:f:335:GLN:HA	2.01	0.76
1:f:258:ARG:NH1	1:f:391:ILE:HD12	2.01	0.76
1:j:86:LEU:HD13	1:j:422:VAL:HG11	1.66	0.76
1:j:485:GLU:OE1	1:j:485:GLU:N	2.17	0.76
1:k:27:TYR:CE2	1:k:263:SER:HB3	2.20	0.76
1:k:128:VAL:CG1	1:l:394:GLN:HG2	2.16	0.76
1:k:128:VAL:HG22	1:l:258:ARG:HH12	1.51	0.76
1:a:351:ARG:HD2	1:l:61:VAL:HB	1.68	0.76
1:a:354:PHE:O	1:a:357:MET:HE2	1.83	0.76
1:c:126:TYR:O	1:c:129:THR:CG2	2.34	0.76
1:c:126:TYR:HE1	1:c:158:MET:CE	1.71	0.76
1:d:449:TRP:CA	1:e:455:MET:HE1	2.16	0.76
1:g:148:PRO:CG	1:g:156:ASN:ND2	2.48	0.76
1:h:244:TYR:CD1	1:h:249:CYS:O	2.38	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:335:GLN:NE2	1:j:336:ALA:HB3	1.99	0.76
1:i:348:ILE:HD13	1:i:351:ARG:NH2	2.01	0.76
1:j:128:VAL:HG22	1:k:258:ARG:HH12	1.51	0.76
1:j:157:PRO:CG	1:k:173:PHE:HB2	2.16	0.76
1:k:162:ARG:CG	1:l:260:ASP:OD2	2.33	0.76
1:l:395:GLU:C	1:l:399:PRO:HG2	2.10	0.76
1:a:17:TYR:HE2	1:a:182:ARG:CD	1.96	0.75
1:a:481:ILE:HD13	1:b:466:ILE:HD13	1.61	0.75
1:b:258:ARG:NH1	1:b:391:ILE:HD12	2.01	0.75
1:b:348:ILE:HD13	1:b:351:ARG:NH2	2.01	0.75
1:c:27:TYR:CE2	1:c:263:SER:HB3	2.20	0.75
1:c:162:ARG:CG	1:d:260:ASP:OD2	2.33	0.75
1:e:148:PRO:CG	1:e:156:ASN:ND2	2.48	0.75
1:e:258:ARG:HG3	1:e:258:ARG:NH1	1.94	0.75
1:g:128:VAL:HG22	1:h:258:ARG:HH12	1.51	0.75
1:g:258:ARG:NH1	1:g:391:ILE:HD12	2.01	0.75
1:i:86:LEU:HD13	1:i:422:VAL:HG11	1.66	0.75
1:i:319:PHE:CE2	1:j:311:LEU:CB	2.67	0.75
1:i:439:LEU:HB2	1:j:473:ALA:HB1	1.68	0.75
1:j:368:ARG:HA	1:k:373:GLU:OE2	1.85	0.75
1:k:148:PRO:CG	1:k:156:ASN:ND2	2.48	0.75
1:k:162:ARG:CD	1:l:260:ASP:CG	2.58	0.75
1:l:39:ILE:HD11	1:l:42:LEU:CD2	2.12	0.75
1:l:258:ARG:NH1	1:l:391:ILE:HD12	2.01	0.75
1:b:290:SER:HA	1:c:284:GLU:HG3	0.78	0.75
1:c:17:TYR:HE2	1:c:182:ARG:CD	1.96	0.75
1:c:277:ARG:CG	1:c:348:ILE:HG12	2.16	0.75
1:d:27:TYR:CE2	1:d:263:SER:HB3	2.20	0.75
1:d:258:ARG:NH1	1:d:391:ILE:HD12	2.01	0.75
1:f:335:GLN:OE1	1:f:335:GLN:N	2.19	0.75
1:g:385:LEU:HD12	1:g:388:VAL:HG21	1.68	0.75
1:h:325:GLU:H	1:i:299:LEU:HD13	1.50	0.75
1:i:110:LEU:CD1	1:i:111:SER:N	2.39	0.75
1:j:335:GLN:OE1	1:j:335:GLN:N	2.18	0.75
1:j:348:ILE:HD13	1:j:351:ARG:NH2	2.01	0.75
1:k:227:LEU:HD21	1:k:243:THR:HG23	1.69	0.75
1:k:348:ILE:HD13	1:k:351:ARG:NH2	2.01	0.75
1:l:27:TYR:CE2	1:l:263:SER:HB3	2.20	0.75
1:a:57:PRO:O	1:a:279:LEU:HD21	1.80	0.75
1:b:27:TYR:CE2	1:b:263:SER:HB3	2.20	0.75
1:b:480:GLY:O	1:c:465:MET:CG	2.33	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:68:ASN:HD22	1:c:358:LEU:CD2	1.98	0.75
1:c:383:ASP:O	1:c:384:THR:C	2.28	0.75
1:d:128:VAL:HG22	1:e:258:ARG:HH12	1.51	0.75
1:f:322:GLY:O	1:g:300:VAL:O	2.04	0.75
1:g:244:TYR:CD1	1:g:249:CYS:O	2.38	0.75
1:h:126:TYR:O	1:h:129:THR:CG2	2.34	0.75
1:h:319:PHE:HE2	1:i:311:LEU:HB3	1.51	0.75
1:h:348:ILE:HD13	1:h:351:ARG:NH2	2.01	0.75
1:j:126:TYR:O	1:j:129:THR:CG2	2.34	0.75
1:k:98:SER:HA	1:k:99:ASP:C	2.11	0.75
1:a:61:VAL:HB	1:b:351:ARG:HD2	1.69	0.75
1:a:128:VAL:HG22	1:b:258:ARG:HH12	1.51	0.75
1:a:144:LEU:H	1:a:144:LEU:HD22	1.49	0.75
1:a:162:ARG:CG	1:b:260:ASP:OD2	2.35	0.75
1:a:380:GLU:OE1	1:l:359:ASN:CB	2.34	0.75
1:b:17:TYR:HE2	1:b:182:ARG:CD	1.96	0.75
1:b:277:ARG:NH1	1:b:351:ARG:HH22	1.84	0.75
1:c:128:VAL:HG22	1:d:258:ARG:HH12	1.50	0.75
1:e:162:ARG:CD	1:f:260:ASP:HB2	2.14	0.75
1:h:110:LEU:HD12	1:h:111:SER:H	1.48	0.75
1:h:290:SER:HA	1:i:284:GLU:HG3	0.77	0.75
1:h:300:VAL:CA	1:h:327:ILE:CG2	2.22	0.75
1:i:244:TYR:CD1	1:i:249:CYS:O	2.38	0.75
1:j:227:LEU:HD21	1:j:243:THR:HG23	1.69	0.75
1:k:480:GLY:O	1:l:465:MET:CG	2.33	0.75
1:l:277:ARG:CG	1:l:348:ILE:HG12	2.16	0.75
1:a:74:MET:SD	1:a:131:PHE:HD2	2.06	0.75
1:a:258:ARG:NH1	1:a:391:ILE:HD12	2.01	0.75
1:a:394:GLN:HG2	1:l:128:VAL:CG1	2.17	0.75
1:a:481:ILE:HD11	1:b:466:ILE:HG13	1.67	0.75
1:b:371:ALA:O	1:b:372:GLU:C	2.25	0.75
1:c:335:GLN:OE1	1:c:335:GLN:N	2.19	0.75
1:d:126:TYR:O	1:d:129:THR:CG2	2.34	0.75
1:e:27:TYR:CE2	1:e:263:SER:HB3	2.20	0.75
1:f:17:TYR:HH	1:f:24:ARG:NH2	1.84	0.75
1:f:27:TYR:CE2	1:f:263:SER:HB3	2.20	0.75
1:f:126:TYR:O	1:f:129:THR:CG2	2.34	0.75
1:f:385:LEU:HD12	1:f:388:VAL:HG21	1.68	0.75
1:g:59:GLN:HE21	1:g:278:SER:HB3	1.47	0.75
1:g:325:GLU:H	1:h:299:LEU:HD13	1.50	0.75
1:h:258:ARG:HG3	1:h:258:ARG:NH1	1.95	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:258:ARG:NH1	1:h:391:ILE:HD12	2.01	0.75
1:i:383:ASP:O	1:i:384:THR:C	2.28	0.75
1:i:449:TRP:CA	1:j:455:MET:HE1	2.15	0.75
1:j:17:TYR:HB2	1:j:180:VAL:HG13	1.63	0.75
1:l:17:TYR:HH	1:l:24:ARG:HH21	1.34	0.75
1:l:227:LEU:HD21	1:l:243:THR:HG23	1.69	0.75
1:l:485:GLU:OE1	1:l:485:GLU:N	2.17	0.75
1:a:385:LEU:HD12	1:a:388:VAL:HG21	1.68	0.75
1:b:39:ILE:HD11	1:b:42:LEU:CD2	2.12	0.75
1:e:128:VAL:CG1	1:f:394:GLN:HG2	2.16	0.75
1:f:289:MET:CE	1:g:340:VAL:HB	2.17	0.75
1:g:28:GLU:O	1:g:31:ALA:N	2.20	0.75
1:g:133:ALA:HB2	1:g:160:LEU:HD22	1.68	0.75
1:h:28:GLU:O	1:h:31:ALA:N	2.20	0.75
1:h:128:VAL:CG1	1:i:394:GLN:HG2	2.16	0.75
1:i:481:ILE:HD11	1:j:466:ILE:CD1	1.76	0.75
1:j:359:ASN:ND2	1:k:380:GLU:CB	2.42	0.75
1:j:370:THR:OG1	1:j:371:ALA:N	2.17	0.75
1:k:325:GLU:H	1:l:299:LEU:HD13	1.51	0.75
1:a:27:TYR:CE2	1:a:263:SER:HB3	2.20	0.75
1:a:268:TYR:O	1:a:269:ILE:C	2.23	0.75
1:d:370:THR:OG1	1:d:371:ALA:N	2.16	0.75
1:e:446:VAL:HG21	1:f:452:LEU:HD21	1.61	0.75
1:e:464:ALA:HB2	1:f:460:ASP:OD2	1.84	0.75
1:f:335:GLN:NE2	1:g:336:ALA:HB3	2.01	0.75
1:h:59:GLN:HE21	1:h:278:SER:HB3	1.47	0.75
1:j:148:PRO:CG	1:j:156:ASN:ND2	2.48	0.75
1:j:244:TYR:CD1	1:j:249:CYS:O	2.38	0.75
1:j:258:ARG:HG3	1:j:258:ARG:NH1	1.94	0.75
1:k:370:THR:OG1	1:k:371:ALA:N	2.18	0.75
1:l:385:LEU:HD12	1:l:388:VAL:HG21	1.68	0.75
1:a:227:LEU:HD21	1:a:243:THR:HG23	1.68	0.75
1:b:126:TYR:O	1:b:129:THR:CG2	2.34	0.75
1:b:162:ARG:CG	1:c:260:ASP:OD2	2.35	0.75
1:c:348:ILE:HD13	1:c:351:ARG:NH2	2.01	0.75
1:d:277:ARG:CG	1:d:348:ILE:HG12	2.16	0.75
1:d:481:ILE:HD11	1:e:466:ILE:HG13	1.69	0.75
1:e:77:LEU:HD22	1:e:78:PHE:CD1	2.22	0.75
1:e:98:SER:HA	1:e:99:ASP:C	2.12	0.75
1:e:319:PHE:HE2	1:f:311:LEU:HB3	1.49	0.75
1:f:28:GLU:O	1:f:31:ALA:N	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:68:ASN:HD22	1:f:358:LEU:CD2	1.98	0.75
1:f:77:LEU:HD22	1:f:78:PHE:CD1	2.22	0.75
1:f:277:ARG:CG	1:f:348:ILE:HG12	2.16	0.75
1:g:110:LEU:HD12	1:g:111:SER:H	1.48	0.75
1:i:227:LEU:HD21	1:i:243:THR:HG23	1.68	0.75
1:l:126:TYR:O	1:l:129:THR:CG2	2.34	0.75
1:a:39:ILE:HD11	1:a:42:LEU:CD2	2.12	0.75
1:a:260:ASP:CG	1:l:162:ARG:CD	2.59	0.75
1:a:277:ARG:NH1	1:a:351:ARG:HH22	1.83	0.75
1:b:59:GLN:HE21	1:b:278:SER:HB3	1.47	0.75
1:b:126:TYR:HE1	1:b:158:MET:CE	1.71	0.75
1:b:300:VAL:HB	1:b:327:ILE:CG2	2.16	0.75
1:c:319:PHE:CE2	1:d:311:LEU:CB	2.66	0.75
1:c:480:GLY:O	1:d:465:MET:CG	2.34	0.75
1:d:244:TYR:CD1	1:d:249:CYS:O	2.38	0.75
1:e:290:SER:HA	1:f:284:GLU:HG3	0.78	0.75
1:e:348:ILE:HD13	1:e:351:ARG:NH2	2.01	0.75
1:f:162:ARG:CD	1:g:260:ASP:HB2	2.16	0.75
1:f:449:TRP:C	1:g:455:MET:HE2	2.10	0.75
1:g:86:LEU:HD13	1:g:422:VAL:HG11	1.66	0.75
1:g:464:ALA:HB2	1:h:460:ASP:OD2	1.84	0.75
1:h:485:GLU:OE1	1:h:485:GLU:N	2.17	0.75
1:k:126:TYR:O	1:k:129:THR:CG2	2.34	0.75
1:l:98:SER:HA	1:l:99:ASP:C	2.11	0.75
1:a:290:SER:HA	1:b:284:GLU:HG3	0.76	0.74
1:a:319:PHE:CE2	1:b:311:LEU:CB	2.68	0.74
1:b:98:SER:HA	1:b:99:ASP:C	2.12	0.74
1:b:289:MET:CE	1:c:340:VAL:HB	2.17	0.74
1:b:383:ASP:O	1:b:384:THR:C	2.28	0.74
1:c:300:VAL:HB	1:c:327:ILE:CG2	2.17	0.74
1:d:74:MET:SD	1:d:131:PHE:HD2	2.06	0.74
1:f:157:PRO:CG	1:g:173:PHE:HB2	2.17	0.74
1:f:368:ARG:CA	1:g:373:GLU:OE2	2.35	0.74
1:f:449:TRP:CA	1:g:455:MET:HE1	2.17	0.74
1:g:162:ARG:CG	1:h:260:ASP:OD2	2.34	0.74
1:h:331:GLN:NE2	1:i:335:GLN:HA	2.02	0.74
1:h:368:ARG:C	1:i:373:GLU:OE2	2.30	0.74
1:h:406:LYS:HA	1:h:406:LYS:HZ3	1.50	0.74
1:j:383:ASP:O	1:j:384:THR:C	2.28	0.74
1:j:449:TRP:CA	1:k:455:MET:HE1	2.15	0.74
1:j:476:ILE:CD1	1:k:469:ARG:NH1	2.49	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:481:ILE:HD11	1:l:466:ILE:HG13	1.68	0.74
1:a:322:GLY:O	1:b:300:VAL:O	2.05	0.74
1:b:277:ARG:CG	1:b:348:ILE:HG12	2.16	0.74
1:c:128:VAL:CG1	1:d:394:GLN:HG2	2.16	0.74
1:c:325:GLU:H	1:d:299:LEU:HD13	1.51	0.74
1:d:17:TYR:HE2	1:d:182:ARG:CD	1.96	0.74
1:d:157:PRO:CG	1:e:173:PHE:HB2	2.16	0.74
1:d:368:ARG:C	1:e:373:GLU:OE2	2.29	0.74
1:e:244:TYR:CD1	1:e:249:CYS:O	2.38	0.74
1:f:61:VAL:HB	1:g:351:ARG:HD2	1.69	0.74
1:f:128:VAL:HG22	1:g:258:ARG:HH12	1.50	0.74
1:f:133:ALA:HB2	1:f:160:LEU:HD22	1.69	0.74
1:g:61:VAL:HB	1:h:351:ARG:HD2	1.68	0.74
1:g:98:SER:HA	1:g:99:ASP:C	2.12	0.74
1:g:348:ILE:HD13	1:g:351:ARG:NH2	2.01	0.74
1:h:98:SER:HA	1:h:99:ASP:C	2.12	0.74
1:h:133:ALA:HB2	1:h:160:LEU:HD22	1.69	0.74
1:j:258:ARG:NH1	1:j:391:ILE:HD12	2.01	0.74
1:j:439:LEU:HB2	1:k:473:ALA:HB1	1.68	0.74
1:k:61:VAL:HB	1:l:351:ARG:HD2	1.68	0.74
1:k:292:ILE:HD12	1:l:288:LYS:HZ2	1.52	0.74
1:k:448:ALA:O	1:k:449:TRP:C	2.30	0.74
1:l:133:ALA:HB2	1:l:160:LEU:HD22	1.68	0.74
1:a:465:MET:CG	1:l:480:GLY:O	2.34	0.74
1:b:28:GLU:O	1:b:31:ALA:N	2.20	0.74
1:d:98:SER:HA	1:d:99:ASP:C	2.12	0.74
1:d:359:ASN:OD1	1:e:380:GLU:CD	2.30	0.74
1:g:77:LEU:HD22	1:g:78:PHE:CD1	2.22	0.74
1:h:61:VAL:HB	1:i:351:ARG:HD2	1.67	0.74
1:i:485:GLU:OE1	1:i:485:GLU:N	2.17	0.74
1:k:77:LEU:HD22	1:k:78:PHE:CD1	2.22	0.74
1:a:383:ASP:O	1:a:384:THR:C	2.28	0.74
1:b:74:MET:SD	1:b:131:PHE:HD2	2.06	0.74
1:e:406:LYS:HA	1:e:406:LYS:HZ3	1.53	0.74
1:e:448:ALA:O	1:e:449:TRP:C	2.30	0.74
1:f:59:GLN:HE21	1:f:278:SER:HB3	1.47	0.74
1:h:128:VAL:HG22	1:i:258:ARG:HH12	1.50	0.74
1:i:277:ARG:CG	1:i:348:ILE:HG12	2.16	0.74
1:i:481:ILE:HD11	1:j:466:ILE:HG13	1.68	0.74
1:j:77:LEU:HD22	1:j:78:PHE:CD1	2.22	0.74
1:k:244:TYR:CD1	1:k:249:CYS:O	2.38	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:300:VAL:HB	1:a:327:ILE:CG2	2.17	0.74
1:b:17:TYR:HH	1:b:24:ARG:HH21	1.35	0.74
1:b:393:SER:HB3	1:b:394:GLN:NE2	2.03	0.74
1:c:290:SER:HA	1:d:284:GLU:HG3	0.76	0.74
1:d:61:VAL:HB	1:e:351:ARG:HD2	1.70	0.74
1:d:77:LEU:HD22	1:d:78:PHE:CD1	2.22	0.74
1:d:449:TRP:C	1:e:455:MET:HE2	2.10	0.74
1:e:128:VAL:HG22	1:f:258:ARG:HH12	1.51	0.74
1:e:258:ARG:NH1	1:e:391:ILE:HD12	2.01	0.74
1:e:385:LEU:HD12	1:e:388:VAL:HG21	1.68	0.74
1:e:393:SER:HB3	1:e:394:GLN:NE2	2.03	0.74
1:f:244:TYR:CD1	1:f:249:CYS:O	2.38	0.74
1:f:483:LEU:HB2	1:g:460:ASP:O	1.86	0.74
1:h:126:TYR:HE1	1:h:158:MET:CE	1.71	0.74
1:i:110:LEU:HD12	1:i:111:SER:H	1.48	0.74
1:i:335:GLN:OE1	1:i:335:GLN:N	2.19	0.74
1:a:98:SER:HA	1:a:99:ASP:C	2.12	0.74
1:a:393:SER:HB3	1:a:394:GLN:NE2	2.03	0.74
1:a:439:LEU:HB2	1:b:473:ALA:HB1	1.67	0.74
1:a:448:ALA:O	1:a:449:TRP:C	2.31	0.74
1:a:466:ILE:HG13	1:l:481:ILE:HD11	1.68	0.74
1:b:335:GLN:OE1	1:b:335:GLN:N	2.19	0.74
1:c:448:ALA:O	1:c:449:TRP:C	2.31	0.74
1:d:348:ILE:HD13	1:d:351:ARG:NH2	2.02	0.74
1:f:98:SER:HA	1:f:99:ASP:C	2.12	0.74
1:g:331:GLN:NE2	1:h:335:GLN:HA	2.03	0.74
1:h:227:LEU:HD21	1:h:243:THR:HG23	1.69	0.74
1:j:98:SER:HA	1:j:99:ASP:C	2.12	0.74
1:j:319:PHE:HE2	1:k:311:LEU:HB3	1.52	0.74
1:k:174:GLY:O	1:k:255:ARG:NH1	2.21	0.74
1:k:319:PHE:HE2	1:l:311:LEU:HB3	1.52	0.74
1:k:383:ASP:O	1:k:384:THR:C	2.28	0.74
1:l:383:ASP:O	1:l:384:THR:C	2.28	0.74
1:a:126:TYR:O	1:a:129:THR:CG2	2.34	0.74
1:a:133:ALA:HB2	1:a:160:LEU:HD22	1.69	0.74
1:a:162:ARG:CD	1:b:260:ASP:CG	2.60	0.74
1:b:162:ARG:CD	1:c:260:ASP:CG	2.60	0.74
1:b:227:LEU:HD21	1:b:243:THR:HG23	1.69	0.74
1:c:28:GLU:O	1:c:31:ALA:N	2.20	0.74
1:d:300:VAL:HB	1:d:327:ILE:CG2	2.16	0.74
1:d:354:PHE:O	1:d:357:MET:HE2	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:133:ALA:HB2	1:e:160:LEU:HD22	1.69	0.74
1:f:290:SER:HA	1:g:284:GLU:HG3	0.77	0.74
1:f:348:ILE:HD13	1:f:351:ARG:NH2	2.01	0.74
1:g:319:PHE:HE2	1:h:311:LEU:HB3	1.51	0.74
1:i:133:ALA:HB2	1:i:160:LEU:HD22	1.68	0.74
1:a:28:GLU:O	1:a:31:ALA:N	2.20	0.74
1:a:77:LEU:HD22	1:a:78:PHE:CD1	2.22	0.74
1:c:174:GLY:O	1:c:255:ARG:NH1	2.21	0.74
1:c:258:ARG:NH1	1:c:391:ILE:HD12	2.01	0.74
1:c:393:SER:HB3	1:c:394:GLN:NE2	2.03	0.74
1:d:174:GLY:O	1:d:255:ARG:NH1	2.21	0.74
1:d:483:LEU:HB2	1:e:460:ASP:O	1.86	0.74
1:g:174:GLY:O	1:g:255:ARG:NH1	2.21	0.74
1:g:393:SER:HB3	1:g:394:GLN:NE2	2.03	0.74
1:h:77:LEU:HD22	1:h:78:PHE:CD1	2.22	0.74
1:h:174:GLY:O	1:h:255:ARG:NH1	2.21	0.74
1:i:157:PRO:CG	1:j:173:PHE:HB2	2.18	0.74
1:j:331:GLN:NE2	1:k:335:GLN:HA	2.03	0.74
1:j:385:LEU:HD12	1:j:388:VAL:HG21	1.68	0.74
1:a:72:LYS:HB2	1:a:72:LYS:HZ3	1.52	0.74
1:a:144:LEU:HD22	1:a:144:LEU:N	2.03	0.74
1:a:260:ASP:HB2	1:l:162:ARG:CD	2.15	0.74
1:a:299:LEU:HD13	1:l:325:GLU:H	1.51	0.74
1:b:157:PRO:CG	1:c:173:PHE:HB2	2.17	0.74
1:b:385:LEU:HD12	1:b:388:VAL:HG21	1.68	0.74
1:c:145:LEU:C	1:c:145:LEU:HD13	2.13	0.74
1:g:145:LEU:C	1:g:145:LEU:HD13	2.13	0.74
1:i:61:VAL:HB	1:j:351:ARG:HD2	1.68	0.74
1:i:98:SER:HA	1:i:99:ASP:C	2.12	0.74
1:i:385:LEU:HD12	1:i:388:VAL:HG21	1.68	0.74
1:j:448:ALA:O	1:j:449:TRP:C	2.30	0.74
1:k:144:LEU:HD22	1:k:144:LEU:N	2.02	0.74
1:l:300:VAL:HB	1:l:327:ILE:CG2	2.17	0.74
1:a:145:LEU:C	1:a:145:LEU:HD13	2.13	0.74
1:a:277:ARG:CD	1:a:348:ILE:CD1	2.66	0.74
1:b:77:LEU:HD22	1:b:78:PHE:CD1	2.22	0.74
1:b:162:ARG:CD	1:c:260:ASP:HB2	2.15	0.74
1:b:174:GLY:O	1:b:255:ARG:NH1	2.21	0.74
1:b:325:GLU:H	1:c:299:LEU:HD13	1.52	0.74
1:d:322:GLY:O	1:e:300:VAL:O	2.05	0.74
1:e:145:LEU:HD13	1:e:145:LEU:C	2.13	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:110:LEU:HD12	1:f:111:SER:H	1.48	0.74
1:h:370:THR:OG1	1:h:371:ALA:N	2.17	0.74
1:j:325:GLU:H	1:k:299:LEU:HD13	1.52	0.74
1:k:28:GLU:O	1:k:31:ALA:N	2.20	0.74
1:k:34:CYS:SG	1:k:270:GLU:HG3	2.28	0.74
1:a:325:GLU:H	1:b:299:LEU:HD13	1.51	0.73
1:b:128:VAL:CG1	1:c:394:GLN:HG2	2.18	0.73
1:b:277:ARG:CD	1:b:348:ILE:CD1	2.66	0.73
1:b:319:PHE:CE2	1:c:311:LEU:CB	2.66	0.73
1:c:133:ALA:HB2	1:c:160:LEU:HD22	1.68	0.73
1:c:277:ARG:CD	1:c:348:ILE:CD1	2.66	0.73
1:d:145:LEU:C	1:d:145:LEU:HD13	2.13	0.73
1:d:227:LEU:HD21	1:d:243:THR:HG23	1.69	0.73
1:d:368:ARG:CA	1:e:373:GLU:OE2	2.35	0.73
1:e:28:GLU:O	1:e:31:ALA:N	2.20	0.73
1:f:37:TYR:CD2	1:f:276:LEU:HD13	2.23	0.73
1:f:128:VAL:CG2	1:g:258:ARG:NH1	2.51	0.73
1:f:227:LEU:HD21	1:f:243:THR:HG23	1.68	0.73
1:g:227:LEU:HD21	1:g:243:THR:HG23	1.68	0.73
1:h:145:LEU:HD13	1:h:145:LEU:C	2.13	0.73
1:i:145:LEU:C	1:i:145:LEU:HD13	2.13	0.73
1:i:162:ARG:CD	1:j:260:ASP:HB2	2.15	0.73
1:i:480:GLY:O	1:j:465:MET:CG	2.36	0.73
1:j:34:CYS:SG	1:j:270:GLU:HG3	2.28	0.73
1:j:145:LEU:HD13	1:j:145:LEU:C	2.13	0.73
1:k:145:LEU:HD13	1:k:145:LEU:C	2.13	0.73
1:k:485:GLU:OE1	1:k:485:GLU:N	2.17	0.73
1:l:77:LEU:HD22	1:l:78:PHE:CD1	2.22	0.73
1:l:393:SER:HB3	1:l:394:GLN:NE2	2.03	0.73
1:a:273:LEU:CD1	1:l:56:THR:HG21	2.18	0.73
1:a:335:GLN:HA	1:l:331:GLN:NE2	2.03	0.73
1:a:380:GLU:HB3	1:l:359:ASN:HD21	1.50	0.73
1:b:145:LEU:HD13	1:b:145:LEU:C	2.13	0.73
1:b:331:GLN:NE2	1:c:335:GLN:HA	2.01	0.73
1:c:289:MET:CE	1:d:340:VAL:HB	2.19	0.73
1:d:144:LEU:HD22	1:d:144:LEU:N	2.02	0.73
1:e:37:TYR:CD2	1:e:276:LEU:HD13	2.23	0.73
1:f:145:LEU:C	1:f:145:LEU:HD13	2.13	0.73
1:h:157:PRO:CG	1:i:173:PHE:HB2	2.18	0.73
1:h:162:ARG:CD	1:i:260:ASP:HB2	2.14	0.73
1:h:448:ALA:O	1:h:449:TRP:C	2.30	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:128:VAL:CG1	1:j:394:GLN:HG2	2.17	0.73
1:i:174:GLY:O	1:i:255:ARG:NH1	2.21	0.73
1:i:325:GLU:H	1:j:299:LEU:HD13	1.53	0.73
1:l:145:LEU:C	1:l:145:LEU:HD13	2.13	0.73
1:l:174:GLY:O	1:l:255:ARG:NH1	2.21	0.73
1:a:173:PHE:HB2	1:l:157:PRO:CG	2.18	0.73
1:a:476:ILE:CD1	1:b:469:ARG:NH1	2.50	0.73
1:c:77:LEU:HD22	1:c:78:PHE:CD1	2.22	0.73
1:c:227:LEU:HD21	1:c:243:THR:HG23	1.68	0.73
1:d:133:ALA:HB2	1:d:160:LEU:HD22	1.69	0.73
1:d:393:SER:HB3	1:d:394:GLN:NE2	2.03	0.73
1:d:481:ILE:HD11	1:e:466:ILE:CD1	1.77	0.73
1:e:370:THR:OG1	1:e:371:ALA:N	2.17	0.73
1:f:162:ARG:CD	1:g:260:ASP:CG	2.62	0.73
1:g:481:ILE:HD11	1:h:466:ILE:HG13	1.68	0.73
1:h:128:VAL:CG2	1:i:258:ARG:NH1	2.52	0.73
1:h:385:LEU:HD12	1:h:388:VAL:HG21	1.68	0.73
1:i:77:LEU:HD22	1:i:78:PHE:CD1	2.22	0.73
1:j:268:TYR:HD1	1:j:269:ILE:H	1.37	0.73
1:j:289:MET:CE	1:k:340:VAL:HB	2.17	0.73
1:k:359:ASN:OD1	1:l:380:GLU:CD	2.32	0.73
1:l:34:CYS:SG	1:l:270:GLU:HG3	2.28	0.73
1:l:72:LYS:HB2	1:l:72:LYS:HZ3	1.53	0.73
1:l:246:LYS:HA	1:l:246:LYS:CE	2.02	0.73
1:a:348:ILE:HD13	1:a:351:ARG:NH2	2.02	0.73
1:d:37:TYR:CD2	1:d:276:LEU:HD13	2.23	0.73
1:d:335:GLN:NE2	1:e:336:ALA:HB3	2.01	0.73
1:e:174:GLY:O	1:e:255:ARG:NH1	2.21	0.73
1:e:227:LEU:HD21	1:e:243:THR:HG23	1.69	0.73
1:f:174:GLY:O	1:f:255:ARG:NH1	2.21	0.73
1:i:300:VAL:CA	1:i:327:ILE:CG2	2.22	0.73
1:j:61:VAL:HB	1:k:351:ARG:HD2	1.69	0.73
1:j:174:GLY:O	1:j:255:ARG:NH1	2.21	0.73
1:k:37:TYR:CD2	1:k:276:LEU:HD13	2.23	0.73
1:k:300:VAL:HB	1:k:327:ILE:CG2	2.16	0.73
1:l:277:ARG:CD	1:l:348:ILE:CD1	2.65	0.73
1:a:311:LEU:HB3	1:l:319:PHE:HE2	1.52	0.73
1:a:370:THR:HG1	1:b:373:GLU:CD	1.95	0.73
1:c:258:ARG:HG3	1:c:258:ARG:NH1	1.95	0.73
1:d:147:LEU:HB3	1:d:407:GLN:OE1	1.89	0.73
1:d:162:ARG:CD	1:e:260:ASP:HB2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:464:ALA:HB2	1:e:460:ASP:OD2	1.84	0.73
1:e:300:VAL:HB	1:e:327:ILE:CG2	2.16	0.73
1:e:335:GLN:OE1	1:e:335:GLN:N	2.19	0.73
1:e:359:ASN:OD1	1:f:380:GLU:CD	2.32	0.73
1:g:162:ARG:CD	1:h:260:ASP:HB2	2.16	0.73
1:g:268:TYR:HD1	1:g:269:ILE:H	1.37	0.73
1:h:448:ALA:O	1:h:450:ALA:N	2.22	0.73
1:i:126:TYR:HE1	1:i:158:MET:CE	1.70	0.73
1:j:162:ARG:CG	1:k:260:ASP:OD2	2.37	0.73
1:l:28:GLU:O	1:l:31:ALA:N	2.20	0.73
1:a:174:GLY:O	1:a:255:ARG:NH1	2.21	0.73
1:a:289:MET:CE	1:b:340:VAL:HB	2.18	0.73
1:b:319:PHE:HE2	1:c:311:LEU:HB3	1.51	0.73
1:b:323:ARG:CD	1:b:324:PRO:HD3	2.19	0.73
1:c:448:ALA:O	1:c:450:ALA:N	2.22	0.73
1:e:289:MET:HE3	1:f:340:VAL:HB	1.66	0.73
1:f:162:ARG:CG	1:g:260:ASP:OD2	2.36	0.73
1:g:128:VAL:CG1	1:h:394:GLN:HG2	2.17	0.73
1:g:383:ASP:O	1:g:384:THR:C	2.28	0.73
1:h:359:ASN:OD1	1:i:380:GLU:CD	2.32	0.73
1:i:34:CYS:SG	1:i:270:GLU:HG3	2.28	0.73
1:j:28:GLU:O	1:j:31:ALA:N	2.20	0.73
1:k:331:GLN:NE2	1:l:335:GLN:HA	2.02	0.73
1:l:370:THR:OG1	1:l:371:ALA:N	2.17	0.73
1:c:56:THR:HG21	1:d:273:LEU:CD1	2.18	0.73
1:d:319:PHE:CE2	1:e:311:LEU:CB	2.68	0.73
1:d:370:THR:OG1	1:e:373:GLU:OE1	2.02	0.73
1:f:147:LEU:HB3	1:f:407:GLN:OE1	1.89	0.73
1:g:147:LEU:HB3	1:g:407:GLN:OE1	1.89	0.73
1:g:370:THR:OG1	1:g:371:ALA:N	2.17	0.73
1:i:147:LEU:HB3	1:i:407:GLN:OE1	1.89	0.73
1:i:289:MET:CE	1:j:340:VAL:HB	2.18	0.73
1:j:393:SER:HB3	1:j:394:GLN:NE2	2.03	0.73
1:l:68:ASN:HD22	1:l:358:LEU:CD2	2.01	0.73
1:a:358:LEU:HD13	1:a:360:SER:H	1.54	0.73
1:c:157:PRO:CG	1:d:173:PHE:HB2	2.18	0.73
1:d:277:ARG:CD	1:d:348:ILE:CD1	2.66	0.73
1:f:481:ILE:HD11	1:g:466:ILE:HG13	1.69	0.73
1:g:157:PRO:CG	1:h:173:PHE:HB2	2.19	0.73
1:h:368:ARG:C	1:h:370:THR:HA	2.13	0.73
1:h:393:SER:HB3	1:h:394:GLN:NE2	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:446:VAL:HG21	1:i:452:LEU:HD21	1.61	0.73
1:i:319:PHE:HE2	1:j:311:LEU:HB3	1.53	0.73
1:i:368:ARG:C	1:j:373:GLU:OE2	2.32	0.73
1:j:133:ALA:HB2	1:j:160:LEU:HD22	1.68	0.73
1:j:480:GLY:O	1:k:465:MET:CG	2.36	0.73
1:k:132:GLU:CG	1:l:258:ARG:O	2.34	0.73
1:k:133:ALA:HB2	1:k:160:LEU:HD22	1.68	0.73
1:k:157:PRO:CG	1:l:173:PHE:HB2	2.19	0.73
1:l:268:TYR:HD1	1:l:269:ILE:H	1.37	0.73
1:a:258:ARG:NH1	1:l:128:VAL:CG2	2.51	0.73
1:a:359:ASN:CG	1:b:380:GLU:HB3	2.14	0.73
1:b:147:LEU:HB3	1:b:407:GLN:OE1	1.89	0.73
1:c:323:ARG:CD	1:c:324:PRO:HD3	2.19	0.73
1:d:268:TYR:HD1	1:d:269:ILE:H	1.37	0.73
1:d:474:ILE:HD12	1:d:474:ILE:N	2.04	0.73
1:e:17:TYR:HE2	1:e:182:ARG:CD	1.96	0.73
1:e:448:ALA:O	1:e:450:ALA:N	2.22	0.73
1:f:439:LEU:HB2	1:g:473:ALA:HB1	1.71	0.73
1:f:448:ALA:O	1:f:450:ALA:N	2.22	0.73
1:g:148:PRO:HD3	1:g:156:ASN:ND2	2.04	0.73
1:g:370:THR:OG1	1:h:373:GLU:OE1	2.06	0.73
1:h:162:ARG:CD	1:i:260:ASP:CG	2.59	0.73
1:l:148:PRO:HD3	1:l:156:ASN:ND2	2.04	0.73
1:l:448:ALA:O	1:l:449:TRP:C	2.30	0.73
1:a:128:VAL:CG1	1:b:394:GLN:HG2	2.18	0.73
1:a:162:ARG:CD	1:b:260:ASP:HB2	2.16	0.73
1:a:323:ARG:CD	1:a:324:PRO:HD3	2.19	0.73
1:c:98:SER:HA	1:c:99:ASP:C	2.12	0.73
1:c:331:GLN:NE2	1:d:335:GLN:HA	2.04	0.73
1:c:398:LEU:CB	1:c:402:ARG:HH22	2.02	0.73
1:e:128:VAL:CG2	1:f:258:ARG:NH1	2.52	0.73
1:f:370:THR:OG1	1:f:371:ALA:N	2.16	0.73
1:h:481:ILE:HD11	1:i:466:ILE:HG13	1.68	0.73
1:i:368:ARG:C	1:i:370:THR:HA	2.13	0.73
1:k:393:SER:HB3	1:k:394:GLN:NE2	2.03	0.73
1:a:398:LEU:CB	1:a:402:ARG:HH22	2.02	0.72
1:a:483:LEU:HB2	1:b:460:ASP:O	1.89	0.72
1:b:398:LEU:CB	1:b:402:ARG:HH22	2.02	0.72
1:b:474:ILE:N	1:b:474:ILE:HD12	2.04	0.72
1:c:37:TYR:CD2	1:c:276:LEU:HD13	2.23	0.72
1:d:398:LEU:CB	1:d:402:ARG:HH22	2.02	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:406:LYS:HA	1:d:406:LYS:HZ3	1.54	0.72
1:e:59:GLN:HE21	1:e:278:SER:HB3	1.47	0.72
1:e:359:ASN:ND2	1:f:380:GLU:CB	2.41	0.72
1:f:258:ARG:HG3	1:f:258:ARG:NH1	1.95	0.72
1:g:128:VAL:CG2	1:h:258:ARG:NH1	2.51	0.72
1:h:37:TYR:CD2	1:h:276:LEU:HD13	2.23	0.72
1:h:289:MET:CE	1:i:340:VAL:HB	2.19	0.72
1:i:476:ILE:CD1	1:j:469:ARG:NH1	2.50	0.72
1:j:128:VAL:CG2	1:k:258:ARG:NH1	2.52	0.72
1:j:448:ALA:O	1:j:450:ALA:N	2.22	0.72
1:a:126:TYR:HE1	1:a:158:MET:CE	1.71	0.72
1:a:148:PRO:CD	1:a:156:ASN:HD21	2.02	0.72
1:a:157:PRO:CG	1:b:173:PHE:HB2	2.19	0.72
1:a:162:ARG:HD2	1:b:260:ASP:OD2	1.88	0.72
1:a:340:VAL:HB	1:l:289:MET:CE	2.18	0.72
1:a:448:ALA:O	1:a:450:ALA:N	2.22	0.72
1:b:268:TYR:HD1	1:b:269:ILE:H	1.37	0.72
1:c:368:ARG:HA	1:d:373:GLU:OE2	1.88	0.72
1:d:59:GLN:HE21	1:d:278:SER:HB3	1.47	0.72
1:d:128:VAL:CG2	1:e:258:ARG:NH1	2.51	0.72
1:d:323:ARG:CD	1:d:324:PRO:HD3	2.19	0.72
1:d:331:GLN:NE2	1:e:335:GLN:HA	2.04	0.72
1:d:476:ILE:CD1	1:e:469:ARG:NH1	2.52	0.72
1:f:393:SER:HB3	1:f:394:GLN:NE2	2.03	0.72
1:g:17:TYR:HH	1:g:24:ARG:NH2	1.87	0.72
1:g:289:MET:CE	1:h:340:VAL:HB	2.19	0.72
1:g:335:GLN:HE22	1:h:336:ALA:CB	2.01	0.72
1:h:147:LEU:HB3	1:h:407:GLN:OE1	1.89	0.72
1:i:56:THR:HG21	1:j:273:LEU:CD1	2.19	0.72
1:i:393:SER:HB3	1:i:394:GLN:NE2	2.03	0.72
1:j:144:LEU:HD22	1:j:144:LEU:N	2.02	0.72
1:j:481:ILE:HD11	1:k:466:ILE:HG13	1.70	0.72
1:l:144:LEU:HD22	1:l:144:LEU:N	2.03	0.72
1:a:34:CYS:SG	1:a:270:GLU:HG3	2.29	0.72
1:e:147:LEU:HB3	1:e:407:GLN:OE1	1.89	0.72
1:e:148:PRO:HD3	1:e:156:ASN:ND2	2.04	0.72
1:e:268:TYR:HD1	1:e:269:ILE:H	1.37	0.72
1:e:335:GLN:HE22	1:f:336:ALA:CB	2.00	0.72
1:e:398:LEU:CB	1:e:402:ARG:HH22	2.02	0.72
1:h:335:GLN:HE22	1:i:336:ALA:CB	2.01	0.72
1:h:335:GLN:OE1	1:h:335:GLN:N	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:148:PRO:HD3	1:i:156:ASN:ND2	2.04	0.72
1:i:448:ALA:O	1:i:450:ALA:N	2.22	0.72
1:i:474:ILE:HD12	1:i:474:ILE:N	2.04	0.72
1:i:483:LEU:HB2	1:j:460:ASP:O	1.89	0.72
1:j:300:VAL:HB	1:j:327:ILE:CG2	2.17	0.72
1:k:289:MET:CE	1:l:340:VAL:HB	2.18	0.72
1:k:385:LEU:HD12	1:k:388:VAL:HG21	1.68	0.72
1:a:480:GLY:O	1:b:465:MET:CG	2.37	0.72
1:b:133:ALA:HB2	1:b:160:LEU:HD22	1.68	0.72
1:b:148:PRO:CD	1:b:156:ASN:HD21	2.02	0.72
1:d:28:GLU:O	1:d:31:ALA:N	2.20	0.72
1:g:37:TYR:CD2	1:g:276:LEU:HD13	2.23	0.72
1:g:72:LYS:HA	1:g:72:LYS:HZ2	1.53	0.72
1:h:34:CYS:SG	1:h:270:GLU:HG3	2.28	0.72
1:h:144:LEU:HD22	1:h:144:LEU:N	2.03	0.72
1:i:162:ARG:CD	1:j:260:ASP:CG	2.60	0.72
1:j:483:LEU:HB2	1:k:460:ASP:O	1.89	0.72
1:l:408:LEU:O	1:l:414:ILE:CG2	2.37	0.72
1:a:358:LEU:HD13	1:a:358:LEU:C	2.14	0.72
1:b:72:LYS:HZ3	1:b:72:LYS:HB2	1.54	0.72
1:b:292:ILE:HD12	1:c:288:LYS:HZ2	1.54	0.72
1:b:448:ALA:O	1:b:450:ALA:N	2.22	0.72
1:c:128:VAL:CG2	1:d:258:ARG:NH1	2.51	0.72
1:f:408:LEU:O	1:f:414:ILE:CG2	2.38	0.72
1:h:474:ILE:N	1:h:474:ILE:HD12	2.04	0.72
1:j:110:LEU:HD12	1:j:111:SER:H	1.48	0.72
1:k:277:ARG:CD	1:k:348:ILE:CD1	2.65	0.72
1:l:398:LEU:CB	1:l:402:ARG:HH22	2.02	0.72
1:a:335:GLN:OE1	1:a:335:GLN:N	2.18	0.72
1:b:148:PRO:HD3	1:b:156:ASN:ND2	2.04	0.72
1:b:359:ASN:OD1	1:c:380:GLU:CD	2.33	0.72
1:d:17:TYR:HH	1:d:24:ARG:HH21	1.26	0.72
1:d:110:LEU:HD12	1:d:111:SER:H	1.48	0.72
1:d:162:ARG:CD	1:e:260:ASP:CG	2.63	0.72
1:d:368:ARG:C	1:d:370:THR:HB	2.15	0.72
1:d:439:LEU:HB2	1:e:473:ALA:HB1	1.70	0.72
1:e:157:PRO:CG	1:f:173:PHE:HB2	2.19	0.72
1:f:448:ALA:O	1:f:449:TRP:C	2.30	0.72
1:g:408:LEU:O	1:g:414:ILE:CG2	2.38	0.72
1:i:37:TYR:CD2	1:i:276:LEU:HD13	2.23	0.72
1:i:144:LEU:HD22	1:i:144:LEU:N	2.03	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:147:LEU:HB3	1:k:407:GLN:OE1	1.89	0.72
1:k:448:ALA:O	1:k:450:ALA:N	2.22	0.72
1:l:323:ARG:CD	1:l:324:PRO:HD3	2.19	0.72
1:a:370:THR:O	1:a:373:GLU:CB	2.37	0.72
1:a:474:ILE:HD12	1:a:474:ILE:N	2.04	0.72
1:b:128:VAL:CG2	1:c:258:ARG:NH1	2.52	0.72
1:c:408:LEU:O	1:c:414:ILE:CG2	2.38	0.72
1:e:289:MET:CE	1:f:340:VAL:HB	2.19	0.72
1:e:289:MET:O	1:f:284:GLU:CD	2.33	0.72
1:e:408:LEU:O	1:e:414:ILE:CG2	2.38	0.72
1:f:398:LEU:CB	1:f:402:ARG:HH22	2.02	0.72
1:j:474:ILE:N	1:j:474:ILE:HD12	2.04	0.72
1:l:448:ALA:O	1:l:450:ALA:N	2.22	0.72
1:a:370:THR:HG23	1:a:371:ALA:N	2.04	0.72
1:a:408:LEU:O	1:a:414:ILE:CG2	2.38	0.72
1:b:37:TYR:CD2	1:b:276:LEU:HD13	2.23	0.72
1:b:439:LEU:HD23	1:c:473:ALA:HB1	1.72	0.72
1:c:144:LEU:HD22	1:c:144:LEU:N	2.03	0.72
1:c:148:PRO:CD	1:c:156:ASN:HD21	2.03	0.72
1:d:162:ARG:CG	1:e:260:ASP:OD2	2.37	0.72
1:d:175:ASN:OD1	1:d:175:ASN:N	2.23	0.72
1:e:277:ARG:CD	1:e:348:ILE:CD1	2.66	0.72
1:e:323:ARG:CD	1:e:324:PRO:HD3	2.19	0.72
1:h:132:GLU:CG	1:i:258:ARG:O	2.34	0.72
1:i:28:GLU:O	1:i:31:ALA:N	2.20	0.72
1:i:268:TYR:HD1	1:i:269:ILE:H	1.37	0.72
1:j:398:LEU:CB	1:j:402:ARG:HH22	2.02	0.72
1:k:162:ARG:HD2	1:l:260:ASP:OD2	1.88	0.72
1:a:147:LEU:HB3	1:a:407:GLN:OE1	1.89	0.72
1:b:80:MET:SD	1:b:122:GLU:CD	2.73	0.72
1:e:110:LEU:HD12	1:e:111:SER:H	1.48	0.72
1:e:439:LEU:HD23	1:f:473:ALA:HB1	1.71	0.72
1:f:175:ASN:N	1:f:175:ASN:OD1	2.23	0.72
1:h:408:LEU:O	1:h:414:ILE:CG2	2.38	0.72
1:i:98:SER:HB3	1:i:103:LEU:HD23	1.71	0.72
1:i:128:VAL:CG2	1:j:258:ARG:NH1	2.52	0.72
1:i:398:LEU:CB	1:i:402:ARG:HH22	2.02	0.72
1:k:72:LYS:HB2	1:k:72:LYS:HZ3	1.55	0.72
1:k:323:ARG:CD	1:k:324:PRO:HD3	2.19	0.72
1:l:258:ARG:HG3	1:l:258:ARG:NH1	1.95	0.72
1:l:474:ILE:HD12	1:l:474:ILE:N	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:128:VAL:CG2	1:b:258:ARG:NH1	2.52	0.72
1:a:284:GLU:HG3	1:l:290:SER:HA	0.77	0.72
1:a:358:LEU:HD13	1:a:360:SER:N	2.04	0.72
1:b:34:CYS:SG	1:b:270:GLU:HG3	2.28	0.72
1:b:126:TYR:HE1	1:b:158:MET:CB	2.03	0.72
1:b:359:ASN:ND2	1:c:380:GLU:CB	2.42	0.72
1:c:80:MET:SD	1:c:122:GLU:CD	2.73	0.72
1:c:110:LEU:HD12	1:c:111:SER:H	1.48	0.72
1:c:147:LEU:HB3	1:c:407:GLN:OE1	1.89	0.72
1:c:368:ARG:CA	1:d:373:GLU:OE2	2.38	0.72
1:f:17:TYR:HE2	1:f:182:ARG:CD	1.96	0.72
1:h:80:MET:SD	1:h:122:GLU:CD	2.73	0.72
1:h:98:SER:HB3	1:h:103:LEU:HD23	1.72	0.72
1:i:148:PRO:CD	1:i:156:ASN:HD21	2.02	0.72
1:i:300:VAL:HB	1:i:327:ILE:CG2	2.17	0.72
1:i:320:VAL:HG12	1:j:297:ILE:CG2	2.03	0.72
1:i:331:GLN:NE2	1:j:335:GLN:HA	2.05	0.72
1:j:323:ARG:CD	1:j:324:PRO:HD3	2.19	0.72
1:k:80:MET:SD	1:k:122:GLU:CD	2.73	0.72
1:k:300:VAL:CA	1:k:327:ILE:CG2	2.22	0.72
1:k:398:LEU:CB	1:k:402:ARG:HH22	2.02	0.72
1:l:147:LEU:HB3	1:l:407:GLN:OE1	1.89	0.72
1:c:72:LYS:HB2	1:c:72:LYS:HZ3	1.54	0.71
1:c:148:PRO:HD3	1:c:156:ASN:ND2	2.04	0.71
1:c:368:ARG:C	1:d:373:GLU:OE2	2.32	0.71
1:c:485:GLU:H	1:c:485:GLU:CD	1.98	0.71
1:d:126:TYR:HE1	1:d:158:MET:CB	2.03	0.71
1:d:148:PRO:CD	1:d:156:ASN:HD21	2.02	0.71
1:d:408:LEU:O	1:d:414:ILE:CG2	2.38	0.71
1:f:368:ARG:O	1:g:373:GLU:OE2	2.08	0.71
1:f:485:GLU:H	1:f:485:GLU:CD	1.98	0.71
1:g:34:CYS:SG	1:g:270:GLU:HG3	2.28	0.71
1:g:80:MET:SD	1:g:122:GLU:CD	2.73	0.71
1:g:144:LEU:HD22	1:g:144:LEU:N	2.03	0.71
1:g:320:VAL:HG12	1:h:297:ILE:CG2	2.01	0.71
1:g:398:LEU:CB	1:g:402:ARG:HH22	2.02	0.71
1:g:485:GLU:H	1:g:485:GLU:CD	1.98	0.71
1:h:485:GLU:CD	1:h:485:GLU:H	1.98	0.71
1:i:126:TYR:HE1	1:i:158:MET:CB	2.03	0.71
1:i:323:ARG:CD	1:i:324:PRO:HD3	2.19	0.71
1:j:259:LEU:C	1:j:259:LEU:HD13	2.15	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:162:ARG:CD	1:l:260:ASP:HB2	2.15	0.71
1:k:359:ASN:O	1:k:360:SER:OG	2.06	0.71
1:l:37:TYR:CD2	1:l:276:LEU:HD13	2.23	0.71
1:a:126:TYR:HE1	1:a:158:MET:CB	2.03	0.71
1:a:260:ASP:OD2	1:l:162:ARG:HD2	1.89	0.71
1:a:284:GLU:CD	1:l:289:MET:O	2.33	0.71
1:b:144:LEU:HD22	1:b:144:LEU:N	2.03	0.71
1:b:408:LEU:O	1:b:414:ILE:CG2	2.37	0.71
1:b:448:ALA:O	1:b:449:TRP:C	2.30	0.71
1:c:98:SER:HB3	1:c:103:LEU:HD23	1.72	0.71
1:c:474:ILE:HD12	1:c:474:ILE:N	2.04	0.71
1:d:448:ALA:O	1:d:450:ALA:N	2.22	0.71
1:e:485:GLU:CD	1:e:485:GLU:H	1.98	0.71
1:f:300:VAL:HB	1:f:327:ILE:CG2	2.17	0.71
1:f:474:ILE:HD12	1:f:474:ILE:N	2.04	0.71
1:g:448:ALA:O	1:g:450:ALA:N	2.22	0.71
1:g:474:ILE:HD12	1:g:474:ILE:N	2.04	0.71
1:h:268:TYR:HD1	1:h:269:ILE:H	1.37	0.71
1:i:368:ARG:CA	1:j:373:GLU:OE2	2.38	0.71
1:j:368:ARG:CA	1:k:373:GLU:OE2	2.38	0.71
1:k:474:ILE:HD12	1:k:474:ILE:N	2.04	0.71
1:l:126:TYR:HE1	1:l:158:MET:CB	2.03	0.71
1:b:175:ASN:OD1	1:b:175:ASN:N	2.23	0.71
1:b:485:GLU:CD	1:b:485:GLU:H	1.98	0.71
1:d:148:PRO:HD3	1:d:156:ASN:ND2	2.04	0.71
1:d:480:GLY:O	1:e:465:MET:CG	2.38	0.71
1:d:485:GLU:H	1:d:485:GLU:CD	1.98	0.71
1:e:449:TRP:O	1:f:455:MET:HE2	1.90	0.71
1:e:481:ILE:HD11	1:f:466:ILE:HG13	1.69	0.71
1:f:259:LEU:HD13	1:f:259:LEU:C	2.16	0.71
1:f:323:ARG:CD	1:f:324:PRO:HD3	2.19	0.71
1:f:331:GLN:NE2	1:g:335:GLN:HA	2.05	0.71
1:f:480:GLY:O	1:g:465:MET:CG	2.38	0.71
1:g:126:TYR:HE1	1:g:158:MET:CB	2.04	0.71
1:h:259:LEU:HD13	1:h:259:LEU:C	2.16	0.71
1:h:323:ARG:CD	1:h:324:PRO:HD3	2.19	0.71
1:i:80:MET:SD	1:i:122:GLU:CD	2.73	0.71
1:i:408:LEU:O	1:i:414:ILE:CG2	2.38	0.71
1:j:126:TYR:HE1	1:j:158:MET:CE	1.71	0.71
1:j:147:LEU:HB3	1:j:407:GLN:OE1	1.89	0.71
1:j:370:THR:OG1	1:k:373:GLU:OE1	2.07	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:126:TYR:HE1	1:k:158:MET:CB	2.03	0.71
1:k:148:PRO:HD3	1:k:156:ASN:ND2	2.04	0.71
1:a:289:MET:O	1:b:284:GLU:CD	2.33	0.71
1:a:331:GLN:NE2	1:b:335:GLN:HA	2.05	0.71
1:b:335:GLN:HE22	1:c:336:ALA:CB	2.00	0.71
1:b:481:ILE:HD11	1:c:466:ILE:HG13	1.69	0.71
1:c:86:LEU:HD21	1:c:424:PRO:CB	2.17	0.71
1:c:268:TYR:HD1	1:c:269:ILE:H	1.37	0.71
1:d:259:LEU:C	1:d:259:LEU:HD13	2.16	0.71
1:f:268:TYR:HD1	1:f:269:ILE:H	1.37	0.71
1:g:323:ARG:CD	1:g:324:PRO:HD3	2.19	0.71
1:g:368:ARG:C	1:g:370:THR:HA	2.14	0.71
1:h:300:VAL:HB	1:h:327:ILE:CG2	2.16	0.71
1:h:449:TRP:O	1:i:455:MET:HE2	1.91	0.71
1:i:485:GLU:H	1:i:485:GLU:CD	1.98	0.71
1:j:126:TYR:HE1	1:j:158:MET:CB	2.03	0.71
1:k:289:MET:O	1:l:284:GLU:CD	2.33	0.71
1:k:408:LEU:O	1:k:414:ILE:CG2	2.38	0.71
1:l:80:MET:SD	1:l:122:GLU:CD	2.73	0.71
1:l:277:ARG:CD	1:l:348:ILE:CG1	2.54	0.71
1:a:259:LEU:C	1:a:259:LEU:HD13	2.15	0.71
1:a:398:LEU:HB3	1:a:402:ARG:HH22	1.56	0.71
1:a:485:GLU:H	1:a:485:GLU:CD	1.98	0.71
1:f:128:VAL:CG1	1:g:394:GLN:HG2	2.19	0.71
1:f:148:PRO:HD3	1:f:156:ASN:ND2	2.04	0.71
1:g:98:SER:HB3	1:g:103:LEU:HD23	1.71	0.71
1:g:449:TRP:O	1:h:455:MET:HE2	1.91	0.71
1:h:320:VAL:HG12	1:i:297:ILE:CG2	2.02	0.71
1:i:246:LYS:HA	1:i:246:LYS:CE	2.02	0.71
1:i:259:LEU:C	1:i:259:LEU:HD13	2.16	0.71
1:i:289:MET:O	1:j:284:GLU:CD	2.34	0.71
1:j:128:VAL:CG1	1:k:394:GLN:HG2	2.20	0.71
1:j:175:ASN:OD1	1:j:175:ASN:N	2.23	0.71
1:a:460:ASP:O	1:l:483:LEU:HB2	1.91	0.71
1:b:86:LEU:HD21	1:b:424:PRO:CB	2.17	0.71
1:d:80:MET:SD	1:d:122:GLU:CD	2.73	0.71
1:d:448:ALA:O	1:d:449:TRP:C	2.31	0.71
1:e:359:ASN:O	1:e:360:SER:OG	2.06	0.71
1:e:474:ILE:N	1:e:474:ILE:HD12	2.04	0.71
1:f:24:ARG:NH1	1:f:163:LEU:O	2.24	0.71
1:f:80:MET:SD	1:f:122:GLU:CD	2.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:144:LEU:HD22	1:f:144:LEU:N	2.03	0.71
1:f:277:ARG:CD	1:f:348:ILE:CD1	2.66	0.71
1:f:368:ARG:C	1:f:370:THR:HA	2.15	0.71
1:h:292:ILE:HD13	1:h:335:GLN:NE2	2.00	0.71
1:i:175:ASN:N	1:i:175:ASN:OD1	2.23	0.71
1:i:290:SER:HA	1:j:284:GLU:HG3	0.76	0.71
1:i:398:LEU:HB3	1:i:402:ARG:HH22	1.56	0.71
1:k:354:PHE:O	1:k:357:MET:HE3	1.91	0.71
1:k:398:LEU:HB3	1:k:402:ARG:HH22	1.56	0.71
1:l:381:LEU:O	1:l:381:LEU:HD22	1.90	0.71
1:a:77:LEU:C	1:a:77:LEU:HD23	2.16	0.71
1:a:258:ARG:O	1:l:132:GLU:CG	2.33	0.71
1:a:371:ALA:HA	1:a:374:ILE:CB	2.14	0.71
1:e:80:MET:SD	1:e:122:GLU:CD	2.73	0.71
1:g:24:ARG:NH1	1:g:163:LEU:O	2.24	0.71
1:g:300:VAL:HB	1:g:327:ILE:CG2	2.17	0.71
1:g:398:LEU:HB3	1:g:402:ARG:HH22	1.56	0.71
1:h:289:MET:O	1:i:284:GLU:CD	2.33	0.71
1:h:398:LEU:CB	1:h:402:ARG:HH22	2.02	0.71
1:j:80:MET:SD	1:j:122:GLU:CD	2.73	0.71
1:j:98:SER:HB3	1:j:103:LEU:HD23	1.72	0.71
1:j:485:GLU:CD	1:j:485:GLU:H	1.98	0.71
1:k:24:ARG:NH1	1:k:163:LEU:O	2.24	0.71
1:k:259:LEU:HD13	1:k:259:LEU:C	2.15	0.71
1:l:24:ARG:NH1	1:l:163:LEU:O	2.24	0.71
1:l:98:SER:HB3	1:l:103:LEU:HD23	1.71	0.71
1:a:368:ARG:O	1:a:370:THR:HB	1.89	0.71
1:d:359:ASN:ND2	1:e:380:GLU:CB	2.43	0.71
1:d:398:LEU:HB3	1:d:402:ARG:HH22	1.56	0.71
1:e:126:TYR:HE1	1:e:158:MET:CB	2.03	0.71
1:e:132:GLU:CG	1:f:258:ARG:O	2.33	0.71
1:e:148:PRO:CD	1:e:156:ASN:HD21	2.02	0.71
1:g:162:ARG:CD	1:h:260:ASP:CG	2.59	0.71
1:j:72:LYS:HZ2	1:j:72:LYS:HA	1.54	0.71
1:j:162:ARG:CD	1:k:260:ASP:CG	2.62	0.71
1:j:277:ARG:CD	1:j:348:ILE:CD1	2.66	0.71
1:j:368:ARG:C	1:j:370:THR:HA	2.15	0.71
1:k:80:MET:HG3	1:k:127:ARG:HH22	1.54	0.71
1:k:335:GLN:HE22	1:l:336:ALA:CB	2.01	0.71
1:a:80:MET:SD	1:a:122:GLU:CD	2.73	0.71
1:b:359:ASN:O	1:b:360:SER:OG	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:34:CYS:SG	1:c:270:GLU:HG3	2.28	0.71
1:c:289:MET:O	1:d:284:GLU:CD	2.33	0.71
1:c:483:LEU:HB2	1:d:460:ASP:O	1.90	0.71
1:d:325:GLU:H	1:e:299:LEU:HD13	1.54	0.71
1:f:56:THR:HG21	1:g:273:LEU:CD1	2.20	0.71
1:f:98:SER:HB3	1:f:103:LEU:HD23	1.71	0.71
1:f:325:GLU:H	1:g:299:LEU:HD13	1.54	0.71
1:h:80:MET:HG3	1:h:127:ARG:HH22	1.54	0.71
1:h:290:SER:O	1:i:284:GLU:CG	2.39	0.71
1:h:383:ASP:O	1:h:384:THR:C	2.28	0.71
1:j:335:GLN:HE22	1:k:336:ALA:CB	2.02	0.71
1:l:175:ASN:OD1	1:l:175:ASN:N	2.23	0.71
1:a:268:TYR:HD1	1:a:269:ILE:H	1.37	0.71
1:c:259:LEU:HD13	1:c:259:LEU:C	2.16	0.71
1:d:98:SER:HB3	1:d:103:LEU:HD23	1.72	0.71
1:f:72:LYS:HA	1:f:72:LYS:HZ2	1.54	0.71
1:f:126:TYR:HE1	1:f:158:MET:CB	2.03	0.71
1:g:289:MET:O	1:h:284:GLU:CD	2.33	0.71
1:g:368:ARG:C	1:g:370:THR:HB	2.16	0.71
1:h:126:TYR:HE1	1:h:158:MET:CB	2.03	0.71
1:j:157:PRO:HG2	1:k:173:PHE:HB2	1.73	0.71
1:j:162:ARG:CD	1:k:260:ASP:HB2	2.17	0.71
1:k:128:VAL:CG2	1:l:258:ARG:NH1	2.52	0.71
1:l:68:ASN:ND2	1:l:358:LEU:HD13	2.06	0.71
1:a:319:PHE:HE2	1:b:311:LEU:HB3	1.53	0.70
1:b:162:ARG:HD2	1:c:260:ASP:OD2	1.90	0.70
1:d:86:LEU:HD21	1:d:424:PRO:CB	2.17	0.70
1:e:72:LYS:HZ3	1:e:72:LYS:HB2	1.55	0.70
1:f:398:LEU:HB3	1:f:402:ARG:HH22	1.56	0.70
1:h:24:ARG:NH1	1:h:163:LEU:O	2.24	0.70
1:i:277:ARG:CD	1:i:348:ILE:CD1	2.66	0.70
1:j:289:MET:O	1:k:284:GLU:CD	2.34	0.70
1:j:408:LEU:O	1:j:414:ILE:CG2	2.37	0.70
1:k:14:LYS:NZ	1:k:19:ARG:HE	1.89	0.70
1:k:36:GLN:NE2	1:k:36:GLN:HA	2.07	0.70
1:l:77:LEU:C	1:l:77:LEU:HD23	2.16	0.70
1:a:36:GLN:HA	1:a:36:GLN:NE2	2.06	0.70
1:a:98:SER:HB3	1:a:103:LEU:HD23	1.72	0.70
1:a:257:VAL:O	1:a:257:VAL:CG1	2.39	0.70
1:a:373:GLU:OE2	1:l:368:ARG:C	2.33	0.70
1:b:98:SER:HB3	1:b:103:LEU:HD23	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:257:VAL:O	1:b:257:VAL:CG1	2.39	0.70
1:c:126:TYR:HE1	1:c:158:MET:CB	2.03	0.70
1:e:24:ARG:NH1	1:e:163:LEU:O	2.24	0.70
1:f:257:VAL:O	1:f:257:VAL:CG1	2.39	0.70
1:g:439:LEU:HD23	1:h:473:ALA:HB1	1.72	0.70
1:h:72:LYS:HZ3	1:h:72:LYS:HB2	1.57	0.70
1:h:418:PRO:C	1:h:419:LYS:HE3	2.16	0.70
1:i:143:VAL:N	1:i:166:TYR:HE2	1.87	0.70
1:i:157:PRO:HG2	1:j:173:PHE:HB2	1.73	0.70
1:i:292:ILE:HD12	1:j:288:LYS:HZ2	1.56	0.70
1:i:418:PRO:C	1:i:419:LYS:HE3	2.16	0.70
1:j:24:ARG:NH1	1:j:163:LEU:O	2.24	0.70
1:j:36:GLN:HA	1:j:36:GLN:NE2	2.07	0.70
1:j:368:ARG:C	1:k:373:GLU:OE2	2.33	0.70
1:l:36:GLN:HA	1:l:36:GLN:NE2	2.07	0.70
1:l:126:TYR:HE1	1:l:158:MET:CE	1.71	0.70
1:l:418:PRO:C	1:l:419:LYS:HE3	2.16	0.70
1:a:14:LYS:NZ	1:a:19:ARG:HE	1.89	0.70
1:a:24:ARG:NH1	1:a:163:LEU:O	2.24	0.70
1:a:86:LEU:HD21	1:a:424:PRO:CB	2.17	0.70
1:b:259:LEU:C	1:b:259:LEU:HD13	2.15	0.70
1:b:289:MET:O	1:c:284:GLU:CD	2.34	0.70
1:c:77:LEU:HD23	1:c:77:LEU:C	2.16	0.70
1:d:77:LEU:C	1:d:77:LEU:HD23	2.16	0.70
1:d:128:VAL:CG1	1:e:394:GLN:HG2	2.20	0.70
1:e:259:LEU:HD13	1:e:259:LEU:C	2.15	0.70
1:e:453:ALA:O	1:e:456:ARG:HG2	1.91	0.70
1:f:14:LYS:NZ	1:f:19:ARG:HE	1.89	0.70
1:f:34:CYS:SG	1:f:270:GLU:HG3	2.28	0.70
1:g:162:ARG:HD2	1:h:260:ASP:OD2	1.88	0.70
1:g:453:ALA:O	1:g:456:ARG:HG2	1.91	0.70
1:h:143:VAL:N	1:h:166:TYR:HE2	1.87	0.70
1:i:36:GLN:HA	1:i:36:GLN:NE2	2.07	0.70
1:j:14:LYS:NZ	1:j:19:ARG:HE	1.90	0.70
1:j:37:TYR:CD2	1:j:276:LEU:HD13	2.23	0.70
1:j:143:VAL:N	1:j:166:TYR:HE2	1.87	0.70
1:l:14:LYS:NZ	1:l:19:ARG:HE	1.89	0.70
1:l:453:ALA:O	1:l:456:ARG:HG2	1.91	0.70
1:l:485:GLU:H	1:l:485:GLU:CD	1.98	0.70
1:c:439:LEU:HD23	1:d:473:ALA:HB1	1.73	0.70
1:d:24:ARG:NH1	1:d:163:LEU:O	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:290:SER:O	1:f:284:GLU:CG	2.38	0.70
1:e:481:ILE:HD13	1:f:466:ILE:HD11	0.71	0.70
1:g:14:LYS:NZ	1:g:19:ARG:HE	1.89	0.70
1:g:448:ALA:O	1:g:449:TRP:C	2.31	0.70
1:h:77:LEU:HD23	1:h:77:LEU:C	2.16	0.70
1:j:418:PRO:C	1:j:419:LYS:HE3	2.16	0.70
1:j:439:LEU:HD23	1:k:473:ALA:HB1	1.72	0.70
1:k:72:LYS:HA	1:k:72:LYS:HZ2	1.56	0.70
1:k:268:TYR:HD1	1:k:269:ILE:H	1.37	0.70
1:k:453:ALA:O	1:k:456:ARG:HG2	1.91	0.70
1:l:259:LEU:C	1:l:259:LEU:HD13	2.16	0.70
1:a:175:ASN:N	1:a:175:ASN:OD1	2.23	0.70
1:b:290:SER:O	1:c:284:GLU:CG	2.39	0.70
1:b:446:VAL:HG21	1:c:452:LEU:HD21	1.62	0.70
1:d:34:CYS:SG	1:d:270:GLU:HG3	2.28	0.70
1:e:144:LEU:HD22	1:e:144:LEU:N	2.02	0.70
1:e:257:VAL:O	1:e:257:VAL:CG1	2.39	0.70
1:e:439:LEU:HD23	1:f:473:ALA:CB	2.21	0.70
1:i:14:LYS:NZ	1:i:19:ARG:HE	1.89	0.70
1:i:448:ALA:O	1:i:449:TRP:C	2.30	0.70
1:i:453:ALA:O	1:i:456:ARG:HG2	1.92	0.70
1:j:86:LEU:HD21	1:j:424:PRO:CB	2.17	0.70
1:a:37:TYR:CD2	1:a:276:LEU:HD13	2.23	0.70
1:a:148:PRO:HD3	1:a:156:ASN:ND2	2.04	0.70
1:a:373:GLU:OE2	1:l:368:ARG:HA	1.91	0.70
1:a:418:PRO:C	1:a:419:LYS:HE3	2.16	0.70
1:b:439:LEU:HD23	1:c:473:ALA:CB	2.22	0.70
1:c:27:TYR:CE2	1:c:264:TYR:O	2.45	0.70
1:c:257:VAL:O	1:c:257:VAL:CG1	2.39	0.70
1:e:14:LYS:NZ	1:e:19:ARG:HE	1.90	0.70
1:e:98:SER:HB3	1:e:103:LEU:HD23	1.71	0.70
1:g:277:ARG:CD	1:g:348:ILE:CD1	2.66	0.70
1:g:418:PRO:C	1:g:419:LYS:HE3	2.16	0.70
1:h:14:LYS:NZ	1:h:19:ARG:HE	1.89	0.70
1:h:36:GLN:NE2	1:h:36:GLN:HA	2.07	0.70
1:h:72:LYS:HA	1:h:72:LYS:HZ2	1.55	0.70
1:h:439:LEU:HD23	1:i:473:ALA:HB1	1.72	0.70
1:h:453:ALA:O	1:h:456:ARG:HG2	1.91	0.70
1:i:80:MET:HG3	1:i:127:ARG:HH22	1.54	0.70
1:j:27:TYR:CE2	1:j:264:TYR:O	2.45	0.70
1:j:77:LEU:HD23	1:j:77:LEU:C	2.16	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:175:ASN:N	1:k:175:ASN:OD1	2.23	0.70
1:a:252:ILE:HD12	1:a:252:ILE:N	2.07	0.70
1:b:282:LEU:O	1:b:282:LEU:HD13	1.92	0.70
1:b:398:LEU:HB3	1:b:402:ARG:HH22	1.56	0.70
1:c:398:LEU:HB3	1:c:402:ARG:HH22	1.56	0.70
1:d:27:TYR:CE2	1:d:264:TYR:O	2.45	0.70
1:e:72:LYS:HZ2	1:e:72:LYS:HA	1.56	0.70
1:e:439:LEU:CD2	1:f:474:ILE:HD11	2.22	0.70
1:f:476:ILE:CD1	1:g:469:ARG:NH1	2.52	0.70
1:g:257:VAL:O	1:g:257:VAL:CG1	2.39	0.70
1:i:72:LYS:HB2	1:i:72:LYS:HZ3	1.57	0.70
1:k:27:TYR:CE2	1:k:264:TYR:O	2.45	0.70
1:k:290:SER:O	1:l:284:GLU:CG	2.40	0.70
1:k:418:PRO:C	1:k:419:LYS:HE3	2.16	0.70
1:k:449:TRP:O	1:l:455:MET:HE2	1.91	0.70
1:b:14:LYS:NZ	1:b:19:ARG:HE	1.89	0.70
1:b:24:ARG:NH1	1:b:163:LEU:O	2.24	0.70
1:b:77:LEU:HD23	1:b:77:LEU:C	2.16	0.70
1:b:453:ALA:O	1:b:456:ARG:HG2	1.91	0.70
1:c:449:TRP:O	1:d:455:MET:HE2	1.92	0.70
1:d:282:LEU:O	1:d:282:LEU:HD13	1.92	0.70
1:d:335:GLN:OE1	1:d:335:GLN:N	2.19	0.70
1:g:27:TYR:CE2	1:g:264:TYR:O	2.45	0.70
1:g:259:LEU:C	1:g:259:LEU:HD13	2.16	0.70
1:h:157:PRO:HG2	1:i:173:PHE:HB2	1.74	0.70
1:h:175:ASN:N	1:h:175:ASN:OD1	2.23	0.70
1:i:24:ARG:NH1	1:i:163:LEU:O	2.24	0.70
1:k:77:LEU:HD23	1:k:77:LEU:C	2.16	0.70
1:k:126:TYR:HE1	1:k:158:MET:CE	1.70	0.70
1:k:323:ARG:CD	1:k:324:PRO:CD	2.70	0.70
1:k:368:ARG:HA	1:l:373:GLU:OE2	1.91	0.70
1:k:485:GLU:CD	1:k:485:GLU:H	1.98	0.70
1:d:14:LYS:NZ	1:d:19:ARG:HE	1.89	0.70
1:d:258:ARG:HG3	1:d:258:ARG:NH1	1.94	0.70
1:d:446:VAL:HG21	1:e:452:LEU:HD21	1.65	0.70
1:e:34:CYS:SG	1:e:270:GLU:HG3	2.29	0.70
1:f:148:PRO:CD	1:f:156:ASN:HD21	2.02	0.70
1:g:335:GLN:OE1	1:g:335:GLN:N	2.18	0.70
1:h:148:PRO:HD3	1:h:156:ASN:ND2	2.04	0.70
1:i:368:ARG:O	1:j:373:GLU:OE2	2.10	0.70
1:j:453:ALA:O	1:j:456:ARG:HG2	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:98:SER:HB3	1:k:103:LEU:HD23	1.72	0.70
1:l:381:LEU:C	1:l:381:LEU:HD13	2.17	0.70
1:a:473:ALA:HB1	1:l:439:LEU:HD23	1.73	0.70
1:b:36:GLN:NE2	1:b:36:GLN:HA	2.06	0.70
1:b:252:ILE:HD12	1:b:252:ILE:N	2.07	0.70
1:c:24:ARG:NH1	1:c:163:LEU:O	2.24	0.70
1:d:439:LEU:HD23	1:e:473:ALA:HB1	1.74	0.70
1:e:368:ARG:C	1:e:370:THR:HA	2.17	0.70
1:f:27:TYR:CE2	1:f:264:TYR:O	2.45	0.70
1:f:453:ALA:O	1:f:456:ARG:HG2	1.91	0.70
1:g:398:LEU:CB	1:g:402:ARG:NH2	2.55	0.70
1:g:439:LEU:HD23	1:h:473:ALA:CB	2.22	0.70
1:h:252:ILE:N	1:h:252:ILE:HD12	2.07	0.70
1:h:277:ARG:CD	1:h:348:ILE:CD1	2.66	0.70
1:i:72:LYS:HA	1:i:72:LYS:HZ2	1.55	0.70
1:i:277:ARG:NH1	1:i:351:ARG:HH22	1.83	0.70
1:j:54:TYR:HE2	1:j:56:THR:HG22	1.57	0.70
1:j:80:MET:HG3	1:j:127:ARG:HH22	1.54	0.70
1:j:257:VAL:O	1:j:257:VAL:CG1	2.39	0.70
1:j:320:VAL:HG12	1:k:297:ILE:CG2	2.04	0.70
1:j:398:LEU:CB	1:j:402:ARG:NH2	2.55	0.70
1:k:143:VAL:N	1:k:166:TYR:HE2	1.87	0.70
1:k:369:VAL:HA	1:k:370:THR:HB	1.74	0.70
1:k:439:LEU:HD23	1:l:473:ALA:HB1	1.72	0.70
1:l:252:ILE:HD12	1:l:252:ILE:N	2.07	0.70
1:l:369:VAL:HA	1:l:370:THR:HB	1.74	0.70
1:a:17:TYR:HH	1:a:24:ARG:HH21	1.33	0.69
1:a:291:MET:C	1:a:291:MET:HE2	2.18	0.69
1:a:453:ALA:O	1:a:456:ARG:HG2	1.91	0.69
1:b:72:LYS:HZ2	1:b:72:LYS:HA	1.57	0.69
1:b:291:MET:C	1:b:291:MET:HE2	2.17	0.69
1:b:352:LEU:HD13	1:b:352:LEU:C	2.17	0.69
1:c:72:LYS:HA	1:c:72:LYS:HZ2	1.57	0.69
1:f:246:LYS:HA	1:f:246:LYS:CE	2.02	0.69
1:g:143:VAL:N	1:g:166:TYR:HE2	1.87	0.69
1:g:277:ARG:CD	1:g:348:ILE:CG1	2.55	0.69
1:g:292:ILE:CD1	1:g:335:GLN:HE21	2.01	0.69
1:h:282:LEU:O	1:h:282:LEU:HD13	1.92	0.69
1:i:257:VAL:O	1:i:257:VAL:CG1	2.39	0.69
1:i:282:LEU:O	1:i:282:LEU:HD13	1.92	0.69
1:k:352:LEU:HD13	1:k:352:LEU:C	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:80:MET:HG3	1:l:127:ARG:HH22	1.54	0.69
1:l:335:GLN:OE1	1:l:335:GLN:N	2.18	0.69
1:l:352:LEU:HD13	1:l:352:LEU:C	2.17	0.69
1:b:27:TYR:CE2	1:b:264:TYR:O	2.45	0.69
1:b:323:ARG:CD	1:b:324:PRO:CD	2.70	0.69
1:b:418:PRO:C	1:b:419:LYS:HE3	2.16	0.69
1:b:483:LEU:HB2	1:c:460:ASP:O	1.91	0.69
1:d:257:VAL:O	1:d:257:VAL:CG1	2.39	0.69
1:d:398:LEU:HD22	1:d:426:ILE:HD11	1.74	0.69
1:f:77:LEU:HD23	1:f:77:LEU:C	2.16	0.69
1:f:282:LEU:HD13	1:f:282:LEU:O	1.92	0.69
1:f:481:ILE:CD1	1:g:466:ILE:HG12	1.95	0.69
1:g:148:PRO:CD	1:g:156:ASN:HD21	2.02	0.69
1:h:277:ARG:NH1	1:h:351:ARG:HH22	1.83	0.69
1:h:325:GLU:HA	1:i:299:LEU:HD13	1.74	0.69
1:h:398:LEU:HB3	1:h:402:ARG:HH22	1.56	0.69
1:i:27:TYR:CE2	1:i:264:TYR:O	2.45	0.69
1:i:252:ILE:HD12	1:i:252:ILE:N	2.07	0.69
1:j:323:ARG:CD	1:j:324:PRO:CD	2.70	0.69
1:k:128:VAL:HB	1:l:390:SER:OG	1.92	0.69
1:k:257:VAL:O	1:k:257:VAL:CG1	2.39	0.69
1:k:282:LEU:O	1:k:282:LEU:HD13	1.92	0.69
1:l:27:TYR:CE2	1:l:264:TYR:O	2.45	0.69
1:l:257:VAL:O	1:l:257:VAL:CG1	2.39	0.69
1:a:173:PHE:HB2	1:l:157:PRO:HG2	1.74	0.69
1:a:300:VAL:CB	1:a:327:ILE:HG22	1.94	0.69
1:b:258:ARG:HG3	1:b:258:ARG:NH1	1.94	0.69
1:c:14:LYS:NZ	1:c:19:ARG:HE	1.89	0.69
1:c:323:ARG:CD	1:c:324:PRO:CD	2.70	0.69
1:c:453:ALA:O	1:c:456:ARG:HG2	1.91	0.69
1:e:398:LEU:HB3	1:e:402:ARG:HH22	1.56	0.69
1:f:72:LYS:HB2	1:f:72:LYS:HZ3	1.57	0.69
1:f:119:ASN:O	1:f:123:SER:CB	2.41	0.69
1:f:157:PRO:HG2	1:g:173:PHE:HB2	1.73	0.69
1:f:398:LEU:CB	1:f:402:ARG:NH2	2.55	0.69
1:g:36:GLN:HA	1:g:36:GLN:NE2	2.06	0.69
1:g:77:LEU:C	1:g:77:LEU:HD23	2.16	0.69
1:g:483:LEU:HB2	1:h:460:ASP:O	1.92	0.69
1:i:335:GLN:HE22	1:j:336:ALA:CB	2.04	0.69
1:k:320:VAL:HG12	1:l:297:ILE:CG2	2.01	0.69
1:l:291:MET:C	1:l:291:MET:HE2	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:323:ARG:CD	1:l:324:PRO:CD	2.70	0.69
1:a:352:LEU:HD13	1:a:352:LEU:C	2.17	0.69
1:a:455:MET:HE2	1:l:449:TRP:O	1.92	0.69
1:c:291:MET:C	1:c:291:MET:HE2	2.18	0.69
1:d:453:ALA:O	1:d:456:ARG:HG2	1.92	0.69
1:e:36:GLN:NE2	1:e:36:GLN:HA	2.06	0.69
1:e:439:LEU:HD21	1:f:474:ILE:HD11	1.75	0.69
1:g:282:LEU:O	1:g:282:LEU:HD13	1.92	0.69
1:h:162:ARG:HD2	1:i:260:ASP:OD2	1.89	0.69
1:h:257:VAL:O	1:h:257:VAL:CG1	2.39	0.69
1:h:398:LEU:CB	1:h:402:ARG:NH2	2.55	0.69
1:k:252:ILE:N	1:k:252:ILE:HD12	2.07	0.69
1:k:439:LEU:HD23	1:l:473:ALA:CB	2.22	0.69
1:k:481:ILE:HD13	1:l:466:ILE:HD11	0.70	0.69
1:b:325:GLU:HA	1:c:299:LEU:HD13	1.74	0.69
1:b:481:ILE:HD11	1:c:466:ILE:CD1	1.74	0.69
1:c:39:ILE:HG23	1:c:63:ALA:HB1	1.75	0.69
1:c:252:ILE:N	1:c:252:ILE:HD12	2.07	0.69
1:d:352:LEU:HD13	1:d:352:LEU:C	2.17	0.69
1:e:77:LEU:HD23	1:e:77:LEU:C	2.16	0.69
1:f:36:GLN:HA	1:f:36:GLN:NE2	2.06	0.69
1:f:289:MET:O	1:g:284:GLU:CD	2.35	0.69
1:f:292:ILE:CD1	1:f:335:GLN:HE21	2.01	0.69
1:g:175:ASN:OD1	1:g:175:ASN:N	2.23	0.69
1:g:252:ILE:HD12	1:g:252:ILE:N	2.07	0.69
1:i:77:LEU:HD23	1:i:77:LEU:C	2.16	0.69
1:j:398:LEU:HB3	1:j:402:ARG:HH22	1.56	0.69
1:k:398:LEU:CB	1:k:402:ARG:NH2	2.55	0.69
1:k:439:LEU:CD2	1:l:474:ILE:HD11	2.22	0.69
1:l:39:ILE:HG23	1:l:63:ALA:HB1	1.75	0.69
1:l:406:LYS:HA	1:l:406:LYS:HZ2	1.57	0.69
1:a:439:LEU:HD23	1:b:473:ALA:HB1	1.74	0.69
1:c:439:LEU:CD2	1:d:474:ILE:HD11	2.23	0.69
1:d:291:MET:C	1:d:291:MET:HE2	2.18	0.69
1:e:86:LEU:HD21	1:e:424:PRO:CB	2.17	0.69
1:e:119:ASN:O	1:e:123:SER:CB	2.41	0.69
1:e:282:LEU:O	1:e:282:LEU:HD13	1.92	0.69
1:f:252:ILE:HD12	1:f:252:ILE:N	2.07	0.69
1:g:119:ASN:O	1:g:123:SER:CB	2.41	0.69
1:g:147:LEU:HD22	1:g:147:LEU:N	2.06	0.69
1:h:27:TYR:CE2	1:h:264:TYR:O	2.45	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:481:ILE:HD13	1:i:466:ILE:HD11	0.70	0.69
1:k:157:PRO:HG2	1:l:173:PHE:HB2	1.75	0.69
1:l:398:LEU:HB3	1:l:402:ARG:HH22	1.56	0.69
1:a:110:LEU:HD12	1:a:110:LEU:C	2.18	0.69
1:d:157:PRO:HG2	1:e:173:PHE:HB2	1.73	0.69
1:d:368:ARG:C	1:d:370:THR:HA	2.18	0.69
1:e:175:ASN:N	1:e:175:ASN:OD1	2.23	0.69
1:e:291:MET:HE2	1:e:291:MET:C	2.18	0.69
1:f:342:LYS:C	1:f:342:LYS:HD3	2.18	0.69
1:f:418:PRO:C	1:f:419:LYS:HE3	2.16	0.69
1:g:132:GLU:CG	1:h:258:ARG:O	2.34	0.69
1:g:277:ARG:NH1	1:g:351:ARG:HH22	1.83	0.69
1:g:368:ARG:O	1:h:373:GLU:OE2	2.11	0.69
1:h:323:ARG:CD	1:h:324:PRO:CD	2.70	0.69
1:k:368:ARG:C	1:k:370:THR:HA	2.17	0.69
1:l:68:ASN:ND2	1:l:358:LEU:CD1	2.56	0.69
1:l:86:LEU:HD21	1:l:424:PRO:CB	2.17	0.69
1:l:143:VAL:N	1:l:166:TYR:HE2	1.87	0.69
1:l:282:LEU:O	1:l:282:LEU:HD13	1.92	0.69
1:a:27:TYR:CE2	1:a:264:TYR:O	2.45	0.69
1:a:69:LEU:CD2	1:a:138:VAL:HG21	2.22	0.69
1:a:128:VAL:HB	1:b:390:SER:OG	1.92	0.69
1:a:373:GLU:OE2	1:l:368:ARG:O	2.11	0.69
1:b:110:LEU:HD12	1:b:110:LEU:C	2.18	0.69
1:b:157:PRO:HG2	1:c:173:PHE:HB2	1.73	0.69
1:b:400:LEU:HD13	1:b:400:LEU:C	2.18	0.69
1:b:481:ILE:HD13	1:c:466:ILE:HD11	0.70	0.69
1:c:282:LEU:HD13	1:c:282:LEU:O	1.92	0.69
1:c:342:LYS:C	1:c:342:LYS:HD3	2.18	0.69
1:c:368:ARG:C	1:c:370:THR:HA	2.18	0.69
1:d:268:TYR:O	1:d:271:GLU:N	2.26	0.69
1:e:352:LEU:HD13	1:e:352:LEU:C	2.17	0.69
1:f:39:ILE:HG23	1:f:63:ALA:HB1	1.75	0.69
1:f:143:VAL:N	1:f:166:TYR:HE2	1.87	0.69
1:f:292:ILE:HD13	1:f:335:GLN:NE2	2.01	0.69
1:g:80:MET:CB	1:g:127:ARG:CZ	2.71	0.69
1:g:342:LYS:C	1:g:342:LYS:HD3	2.18	0.69
1:g:481:ILE:HD13	1:h:466:ILE:HD11	0.70	0.69
1:h:292:ILE:CD1	1:h:335:GLN:HE21	2.01	0.69
1:h:354:PHE:O	1:h:357:MET:HE3	1.92	0.69
1:h:368:ARG:O	1:i:373:GLU:OE2	2.11	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:368:ARG:C	1:h:370:THR:HB	2.17	0.69
1:i:80:MET:CB	1:i:127:ARG:CZ	2.71	0.69
1:i:268:TYR:O	1:i:271:GLU:N	2.26	0.69
1:i:398:LEU:CB	1:i:402:ARG:NH2	2.55	0.69
1:i:439:LEU:HD23	1:j:473:ALA:HB1	1.74	0.69
1:j:162:ARG:HD2	1:k:260:ASP:OD2	1.91	0.69
1:j:291:MET:C	1:j:291:MET:HE2	2.18	0.69
1:k:291:MET:C	1:k:291:MET:HE2	2.18	0.69
1:k:342:LYS:HD3	1:k:342:LYS:C	2.18	0.69
1:l:69:LEU:CD2	1:l:138:VAL:HG21	2.22	0.69
1:l:342:LYS:C	1:l:342:LYS:HD3	2.18	0.69
1:a:132:GLU:CG	1:b:258:ARG:O	2.34	0.69
1:a:282:LEU:O	1:a:282:LEU:HD13	1.92	0.69
1:a:390:SER:OG	1:l:128:VAL:HB	1.93	0.69
1:b:69:LEU:CD2	1:b:138:VAL:HG21	2.22	0.69
1:c:42:LEU:C	1:c:162:ARG:NH2	2.51	0.69
1:c:175:ASN:N	1:c:175:ASN:OD1	2.23	0.69
1:c:335:GLN:HE22	1:d:336:ALA:CB	2.03	0.69
1:c:398:LEU:HD22	1:c:426:ILE:HD11	1.75	0.69
1:d:39:ILE:HG23	1:d:63:ALA:HB1	1.75	0.69
1:d:69:LEU:CD2	1:d:138:VAL:HG21	2.22	0.69
1:e:69:LEU:CD2	1:e:138:VAL:HG21	2.22	0.69
1:e:398:LEU:HD22	1:e:426:ILE:HD11	1.74	0.69
1:e:400:LEU:HD13	1:e:400:LEU:C	2.18	0.69
1:f:383:ASP:O	1:f:384:THR:C	2.28	0.69
1:f:481:ILE:HD13	1:g:466:ILE:HD13	1.63	0.69
1:g:291:MET:C	1:g:291:MET:HE2	2.18	0.69
1:j:352:LEU:HD13	1:j:352:LEU:C	2.17	0.69
1:a:300:VAL:HG12	1:a:327:ILE:HG21	0.69	0.69
1:a:323:ARG:CD	1:a:324:PRO:CD	2.70	0.69
1:a:380:GLU:HB3	1:l:359:ASN:CG	2.17	0.69
1:b:119:ASN:O	1:b:123:SER:CB	2.41	0.69
1:b:449:TRP:O	1:c:455:MET:HE2	1.92	0.69
1:c:418:PRO:C	1:c:419:LYS:HE3	2.16	0.69
1:d:252:ILE:HD12	1:d:252:ILE:N	2.07	0.69
1:d:300:VAL:HG12	1:d:327:ILE:HG21	0.69	0.69
1:e:42:LEU:C	1:e:162:ARG:NH2	2.51	0.69
1:e:342:LYS:HD3	1:e:342:LYS:C	2.18	0.69
1:e:418:PRO:C	1:e:419:LYS:HE3	2.16	0.69
1:e:457:ASP:N	1:e:457:ASP:OD1	2.26	0.69
1:f:32:GLN:HA	1:f:32:GLN:NE2	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:277:ARG:NH1	1:f:351:ARG:HH22	1.83	0.69
1:f:400:LEU:HD13	1:f:400:LEU:C	2.18	0.69
1:g:290:SER:O	1:h:284:GLU:CG	2.40	0.69
1:g:439:LEU:CD2	1:h:474:ILE:HD11	2.23	0.69
1:h:359:ASN:CG	1:i:380:GLU:OE1	2.35	0.69
1:h:439:LEU:CD2	1:i:474:ILE:HD11	2.22	0.69
1:i:323:ARG:CD	1:i:324:PRO:CD	2.70	0.69
1:k:69:LEU:CD2	1:k:138:VAL:HG21	2.22	0.69
1:k:268:TYR:O	1:k:271:GLU:N	2.26	0.69
1:k:325:GLU:HA	1:l:299:LEU:HD13	1.76	0.69
1:k:481:ILE:CD1	1:l:466:ILE:HD13	2.14	0.69
1:a:119:ASN:O	1:a:123:SER:CB	2.41	0.68
1:b:331:GLN:HE21	1:c:335:GLN:HA	1.58	0.68
1:c:36:GLN:NE2	1:c:36:GLN:HA	2.07	0.68
1:c:398:LEU:CB	1:c:402:ARG:NH2	2.55	0.68
1:d:157:PRO:HG2	1:e:173:PHE:CB	2.24	0.68
1:d:418:PRO:C	1:d:419:LYS:HE3	2.17	0.68
1:e:32:GLN:NE2	1:e:32:GLN:HA	2.08	0.68
1:e:331:GLN:HE21	1:f:335:GLN:HA	1.58	0.68
1:g:352:LEU:HD13	1:g:352:LEU:C	2.17	0.68
1:h:300:VAL:HG12	1:h:327:ILE:HG21	0.69	0.68
1:h:400:LEU:HD13	1:h:400:LEU:C	2.18	0.68
1:i:17:TYR:HH	1:i:24:ARG:NH2	1.90	0.68
1:i:86:LEU:HD21	1:i:424:PRO:CB	2.17	0.68
1:i:132:GLU:CG	1:j:258:ARG:O	2.34	0.68
1:i:316:THR:HB	1:j:294:SER:O	1.94	0.68
1:j:80:MET:CB	1:j:127:ARG:CZ	2.71	0.68
1:j:369:VAL:HA	1:j:370:THR:HB	1.76	0.68
1:k:483:LEU:HB2	1:l:460:ASP:O	1.93	0.68
1:a:20:LEU:HD12	1:a:167:VAL:CG1	2.24	0.68
1:b:39:ILE:HG23	1:b:63:ALA:HB1	1.75	0.68
1:b:181:THR:HG1	1:b:215:THR:HG1	1.12	0.68
1:c:157:PRO:HG2	1:d:173:PHE:HB2	1.73	0.68
1:c:359:ASN:CG	1:d:380:GLU:CB	2.63	0.68
1:d:316:THR:HB	1:e:294:SER:O	1.92	0.68
1:e:27:TYR:CE2	1:e:264:TYR:O	2.45	0.68
1:e:252:ILE:N	1:e:252:ILE:HD12	2.07	0.68
1:e:323:ARG:CD	1:e:324:PRO:CD	2.70	0.68
1:e:368:ARG:C	1:e:370:THR:HB	2.17	0.68
1:f:323:ARG:CD	1:f:324:PRO:CD	2.70	0.68
1:f:439:LEU:HD23	1:g:473:ALA:HB1	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:128:VAL:HB	1:h:390:SER:OG	1.92	0.68
1:h:81:GLN:OE1	1:h:81:GLN:HA	1.93	0.68
1:i:69:LEU:CD2	1:i:138:VAL:HG21	2.22	0.68
1:j:148:PRO:CD	1:j:156:ASN:HD21	2.02	0.68
1:j:282:LEU:O	1:j:282:LEU:HD13	1.92	0.68
1:j:342:LYS:C	1:j:342:LYS:HD3	2.18	0.68
1:l:110:LEU:HD12	1:l:110:LEU:C	2.18	0.68
1:a:336:ALA:CB	1:l:335:GLN:HE22	2.03	0.68
1:a:342:LYS:C	1:a:342:LYS:HD3	2.18	0.68
1:b:268:TYR:O	1:b:271:GLU:N	2.26	0.68
1:c:69:LEU:CD2	1:c:138:VAL:HG21	2.22	0.68
1:d:119:ASN:O	1:d:123:SER:CB	2.41	0.68
1:d:289:MET:O	1:e:284:GLU:CD	2.36	0.68
1:e:80:MET:CB	1:e:127:ARG:CZ	2.71	0.68
1:f:335:GLN:HE22	1:g:336:ALA:CB	2.05	0.68
1:g:80:MET:HG3	1:g:127:ARG:HH22	1.54	0.68
1:g:157:PRO:HG2	1:h:173:PHE:HB2	1.75	0.68
1:g:268:TYR:O	1:g:271:GLU:N	2.26	0.68
1:h:42:LEU:C	1:h:162:ARG:NH2	2.51	0.68
1:h:439:LEU:HD23	1:i:473:ALA:CB	2.22	0.68
1:i:325:GLU:HA	1:j:299:LEU:HD13	1.75	0.68
1:j:17:TYR:HH	1:j:24:ARG:NH2	1.91	0.68
1:j:325:GLU:HA	1:k:299:LEU:HD13	1.74	0.68
1:k:359:ASN:CG	1:l:380:GLU:OE1	2.36	0.68
1:k:450:ALA:N	1:l:455:MET:HE1	2.05	0.68
1:a:143:VAL:N	1:a:166:TYR:HE2	1.87	0.68
1:a:268:TYR:O	1:a:271:GLU:N	2.26	0.68
1:a:449:TRP:O	1:b:455:MET:HE2	1.93	0.68
1:a:473:ALA:CB	1:l:439:LEU:HD23	2.23	0.68
1:b:398:LEU:CB	1:b:402:ARG:NH2	2.55	0.68
1:b:439:LEU:CD2	1:c:474:ILE:HD11	2.23	0.68
1:c:110:LEU:HD12	1:c:110:LEU:C	2.18	0.68
1:c:119:ASN:O	1:c:123:SER:CB	2.41	0.68
1:c:439:LEU:HD23	1:d:473:ALA:CB	2.24	0.68
1:d:36:GLN:HA	1:d:36:GLN:NE2	2.06	0.68
1:d:80:MET:CB	1:d:127:ARG:CZ	2.71	0.68
1:e:368:ARG:O	1:f:373:GLU:OE2	2.11	0.68
1:e:450:ALA:N	1:f:455:MET:HE1	2.03	0.68
1:f:69:LEU:CD2	1:f:138:VAL:HG21	2.22	0.68
1:f:320:VAL:HG12	1:g:297:ILE:CG2	2.04	0.68
1:g:20:LEU:HD12	1:g:167:VAL:CG1	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:439:LEU:HD21	1:i:474:ILE:HD11	1.75	0.68
1:i:81:GLN:OE1	1:i:81:GLN:HA	1.94	0.68
1:i:300:VAL:HG12	1:i:327:ILE:HG21	0.69	0.68
1:j:72:LYS:HZ3	1:j:72:LYS:HB2	1.57	0.68
1:k:110:LEU:HD12	1:k:110:LEU:C	2.18	0.68
1:k:457:ASP:OD1	1:k:457:ASP:N	2.26	0.68
1:b:450:ALA:N	1:c:455:MET:HE1	2.06	0.68
1:c:268:TYR:O	1:c:271:GLU:N	2.26	0.68
1:c:290:SER:O	1:d:284:GLU:CG	2.41	0.68
1:d:369:VAL:HA	1:d:370:THR:HB	1.76	0.68
1:d:398:LEU:CB	1:d:402:ARG:NH2	2.55	0.68
1:g:300:VAL:HG12	1:g:327:ILE:HG21	0.69	0.68
1:g:439:LEU:HD21	1:h:474:ILE:HD11	1.76	0.68
1:h:119:ASN:O	1:h:123:SER:CB	2.41	0.68
1:h:342:LYS:HD3	1:h:342:LYS:C	2.18	0.68
1:h:352:LEU:HD13	1:h:352:LEU:C	2.17	0.68
1:j:368:ARG:C	1:j:370:THR:HB	2.17	0.68
1:j:398:LEU:HD22	1:j:426:ILE:HD11	1.74	0.68
1:k:316:THR:HB	1:l:294:SER:O	1.93	0.68
1:l:80:MET:CB	1:l:127:ARG:CZ	2.71	0.68
1:a:81:GLN:OE1	1:a:81:GLN:HA	1.94	0.68
1:a:284:GLU:CG	1:l:290:SER:O	2.41	0.68
1:a:398:LEU:CB	1:a:402:ARG:NH2	2.55	0.68
1:b:300:VAL:HG12	1:b:327:ILE:HG21	0.69	0.68
1:b:359:ASN:CG	1:c:380:GLU:OE1	2.37	0.68
1:c:369:VAL:HA	1:c:370:THR:HB	1.76	0.68
1:d:277:ARG:CD	1:d:348:ILE:CG1	2.54	0.68
1:d:292:ILE:CD1	1:d:335:GLN:HE21	2.01	0.68
1:f:80:MET:CB	1:f:127:ARG:CZ	2.71	0.68
1:g:323:ARG:CD	1:g:324:PRO:CD	2.70	0.68
1:h:80:MET:CB	1:h:127:ARG:CZ	2.71	0.68
1:h:291:MET:HE2	1:h:291:MET:C	2.18	0.68
1:i:162:ARG:HD2	1:j:260:ASP:OD2	1.89	0.68
1:i:449:TRP:O	1:j:455:MET:HE2	1.94	0.68
1:j:69:LEU:CD2	1:j:138:VAL:HG21	2.22	0.68
1:j:119:ASN:O	1:j:123:SER:CB	2.41	0.68
1:j:128:VAL:HB	1:k:390:SER:OG	1.94	0.68
1:j:457:ASP:N	1:j:457:ASP:OD1	2.26	0.68
1:k:80:MET:CB	1:k:127:ARG:CZ	2.71	0.68
1:a:39:ILE:HG23	1:a:63:ALA:HB1	1.75	0.68
1:a:292:ILE:HD13	1:a:335:GLN:NE2	2.00	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:474:ILE:HD11	1:l:439:LEU:CD2	2.23	0.68
1:b:81:GLN:OE1	1:b:81:GLN:HA	1.94	0.68
1:b:305:ILE:O	1:b:307:GLN:HG3	1.94	0.68
1:c:352:LEU:HD13	1:c:352:LEU:C	2.17	0.68
1:d:323:ARG:CD	1:d:324:PRO:CD	2.70	0.68
1:e:20:LEU:HD12	1:e:167:VAL:CG1	2.24	0.68
1:e:143:VAL:N	1:e:166:TYR:HE2	1.87	0.68
1:f:54:TYR:HE2	1:f:56:THR:HG22	1.59	0.68
1:f:291:MET:C	1:f:291:MET:HE2	2.18	0.68
1:f:300:VAL:HG12	1:f:327:ILE:HG21	0.69	0.68
1:g:369:VAL:HA	1:g:370:THR:HB	1.75	0.68
1:i:291:MET:C	1:i:291:MET:HE2	2.18	0.68
1:i:369:VAL:HA	1:i:370:THR:HB	1.76	0.68
1:j:42:LEU:C	1:j:162:ARG:NH2	2.51	0.68
1:k:39:ILE:HG23	1:k:63:ALA:HB1	1.75	0.68
1:k:54:TYR:HE2	1:k:56:THR:HG22	1.58	0.68
1:k:66:LEU:HD21	1:k:135:LYS:HD2	1.76	0.68
1:l:268:TYR:O	1:l:271:GLU:N	2.26	0.68
1:l:305:ILE:O	1:l:307:GLN:HG3	1.94	0.68
1:a:66:LEU:HD21	1:a:135:LYS:HD2	1.76	0.68
1:a:290:SER:O	1:b:284:GLU:CG	2.42	0.68
1:a:325:GLU:HA	1:b:299:LEU:HD13	1.76	0.68
1:c:181:THR:HG1	1:c:215:THR:HG1	0.69	0.68
1:c:325:GLU:HA	1:d:299:LEU:HD13	1.74	0.68
1:f:157:PRO:HG2	1:g:173:PHE:CB	2.24	0.68
1:f:279:LEU:HD13	1:f:279:LEU:C	2.19	0.68
1:f:325:GLU:HA	1:g:299:LEU:HD13	1.75	0.68
1:g:400:LEU:HD13	1:g:400:LEU:C	2.18	0.68
1:h:17:TYR:HH	1:h:24:ARG:NH2	1.91	0.68
1:h:277:ARG:CD	1:h:348:ILE:CG1	2.55	0.68
1:i:39:ILE:HG23	1:i:63:ALA:HB1	1.75	0.68
1:i:119:ASN:O	1:i:123:SER:CB	2.41	0.68
1:i:342:LYS:C	1:i:342:LYS:HD3	2.18	0.68
1:i:398:LEU:HD22	1:i:426:ILE:HD11	1.74	0.68
1:j:20:LEU:HD12	1:j:167:VAL:CG1	2.24	0.68
1:j:439:LEU:HD23	1:k:473:ALA:CB	2.23	0.68
1:j:446:VAL:HG21	1:k:452:LEU:HD21	1.63	0.68
1:k:119:ASN:O	1:k:123:SER:CB	2.41	0.68
1:l:398:LEU:CB	1:l:402:ARG:NH2	2.55	0.68
1:a:126:TYR:CZ	1:a:158:MET:CE	2.61	0.68
1:a:373:GLU:OE2	1:l:368:ARG:CA	2.42	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:20:LEU:HD12	1:b:167:VAL:CG1	2.24	0.68
1:c:86:LEU:HD21	1:c:424:PRO:CG	2.24	0.68
1:d:342:LYS:C	1:d:342:LYS:HD3	2.18	0.68
1:e:131:PHE:CE2	1:f:387:GLY:HA3	2.29	0.68
1:e:162:ARG:HD2	1:f:260:ASP:OD2	1.88	0.68
1:e:359:ASN:CG	1:f:380:GLU:OE1	2.36	0.68
1:e:398:LEU:CB	1:e:402:ARG:NH2	2.55	0.68
1:e:483:LEU:HB2	1:f:460:ASP:O	1.94	0.68
1:f:398:LEU:HD22	1:f:426:ILE:HD11	1.75	0.68
1:g:39:ILE:HG23	1:g:63:ALA:HB1	1.75	0.68
1:g:69:LEU:CD2	1:g:138:VAL:HG21	2.22	0.68
1:h:279:LEU:HD13	1:h:279:LEU:C	2.19	0.68
1:i:128:VAL:HB	1:j:390:SER:OG	1.93	0.68
1:i:352:LEU:HD13	1:i:352:LEU:C	2.17	0.68
1:j:252:ILE:HD12	1:j:252:ILE:N	2.07	0.68
1:j:268:TYR:O	1:j:271:GLU:N	2.26	0.68
1:j:300:VAL:HG12	1:j:327:ILE:HG21	0.69	0.68
1:j:449:TRP:O	1:k:455:MET:HE2	1.94	0.68
1:k:439:LEU:HD21	1:l:474:ILE:HD11	1.75	0.68
1:a:398:LEU:HD22	1:a:426:ILE:HD11	1.74	0.68
1:a:439:LEU:CD2	1:b:474:ILE:HD11	2.24	0.68
1:b:128:VAL:HB	1:c:390:SER:OG	1.93	0.68
1:c:131:PHE:CE2	1:d:387:GLY:HA3	2.29	0.68
1:d:398:LEU:N	1:d:399:PRO:CD	2.58	0.68
1:e:300:VAL:HG12	1:e:327:ILE:HG21	0.69	0.68
1:f:20:LEU:HD12	1:f:167:VAL:CG1	2.24	0.68
1:f:370:THR:OG1	1:g:373:GLU:OE1	2.08	0.68
1:g:325:GLU:HA	1:h:299:LEU:HD13	1.75	0.68
1:g:457:ASP:N	1:g:457:ASP:OD1	2.26	0.68
1:h:268:TYR:O	1:h:271:GLU:N	2.26	0.68
1:h:359:ASN:O	1:h:360:SER:OG	2.08	0.68
1:j:290:SER:O	1:k:284:GLU:CG	2.41	0.68
1:j:368:ARG:O	1:k:373:GLU:OE2	2.12	0.68
1:l:119:ASN:O	1:l:123:SER:CB	2.41	0.68
1:a:299:LEU:HD13	1:l:325:GLU:HA	1.75	0.67
1:a:439:LEU:HD23	1:b:473:ALA:CB	2.24	0.67
1:b:86:LEU:HD21	1:b:424:PRO:CG	2.24	0.67
1:b:131:PHE:CE2	1:c:387:GLY:HA3	2.29	0.67
1:b:342:LYS:C	1:b:342:LYS:HD3	2.18	0.67
1:c:20:LEU:HD12	1:c:167:VAL:CG1	2.24	0.67
1:c:80:MET:CB	1:c:127:ARG:CZ	2.71	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:368:ARG:O	1:e:373:GLU:OE2	2.12	0.67
1:e:157:PRO:HG2	1:f:173:PHE:HB2	1.75	0.67
1:e:292:ILE:CD1	1:e:335:GLN:HE21	2.01	0.67
1:e:359:ASN:CG	1:f:380:GLU:CB	2.66	0.67
1:f:86:LEU:HD21	1:f:424:PRO:CG	2.24	0.67
1:f:316:THR:HB	1:g:294:SER:O	1.93	0.67
1:g:442:LEU:HD21	1:g:476:ILE:HG21	1.76	0.67
1:h:69:LEU:CD2	1:h:138:VAL:HG21	2.22	0.67
1:h:457:ASP:N	1:h:457:ASP:OD1	2.26	0.67
1:i:20:LEU:HD12	1:i:167:VAL:CG1	2.24	0.67
1:j:400:LEU:HD13	1:j:400:LEU:C	2.18	0.67
1:k:86:LEU:HD21	1:k:424:PRO:CB	2.17	0.67
1:k:398:LEU:N	1:k:399:PRO:CD	2.58	0.67
1:l:72:LYS:HA	1:l:72:LYS:HZ2	1.58	0.67
1:a:80:MET:CB	1:a:127:ARG:CZ	2.71	0.67
1:a:86:LEU:HD21	1:a:424:PRO:CG	2.24	0.67
1:a:466:ILE:HD11	1:l:481:ILE:HD13	0.68	0.67
1:b:80:MET:HG3	1:b:127:ARG:HH22	1.54	0.67
1:c:292:ILE:CD1	1:c:335:GLN:HE21	2.01	0.67
1:d:20:LEU:HD12	1:d:167:VAL:CG1	2.24	0.67
1:d:32:GLN:NE2	1:d:32:GLN:HA	2.09	0.67
1:d:86:LEU:HD21	1:d:424:PRO:CG	2.24	0.67
1:d:279:LEU:HD13	1:d:279:LEU:C	2.19	0.67
1:e:325:GLU:HA	1:f:299:LEU:HD13	1.74	0.67
1:e:354:PHE:O	1:e:357:MET:HE3	1.91	0.67
1:f:300:VAL:CA	1:f:327:ILE:CG2	2.22	0.67
1:i:398:LEU:N	1:i:399:PRO:CD	2.58	0.67
1:j:147:LEU:HD22	1:j:147:LEU:N	2.06	0.67
1:k:400:LEU:HD13	1:k:400:LEU:C	2.18	0.67
1:l:81:GLN:OE1	1:l:81:GLN:HA	1.94	0.67
1:l:400:LEU:HD13	1:l:400:LEU:C	2.18	0.67
1:a:294:SER:O	1:l:316:THR:HB	1.94	0.67
1:a:387:GLY:HA3	1:l:131:PHE:CE2	2.29	0.67
1:a:398:LEU:N	1:a:399:PRO:CD	2.57	0.67
1:c:279:LEU:HD13	1:c:279:LEU:C	2.19	0.67
1:d:110:LEU:HD12	1:d:110:LEU:C	2.18	0.67
1:d:143:VAL:N	1:d:166:TYR:HE2	1.87	0.67
1:d:292:ILE:HD13	1:d:335:GLN:NE2	2.01	0.67
1:e:268:TYR:O	1:e:271:GLU:N	2.26	0.67
1:e:369:VAL:HA	1:e:370:THR:HB	1.76	0.67
1:e:408:LEU:O	1:e:414:ILE:CG1	2.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:316:THR:HB	1:h:294:SER:O	1.94	0.67
1:g:372:GLU:CD	1:g:372:GLU:H	2.03	0.67
1:h:86:LEU:HD21	1:h:424:PRO:CG	2.24	0.67
1:h:128:VAL:HB	1:i:390:SER:OG	1.92	0.67
1:h:131:PHE:CE2	1:i:387:GLY:HA3	2.29	0.67
1:h:331:GLN:HE21	1:i:335:GLN:HA	1.59	0.67
1:h:483:LEU:HB2	1:i:460:ASP:O	1.93	0.67
1:i:290:SER:O	1:j:284:GLU:CG	2.42	0.67
1:i:359:ASN:CG	1:j:380:GLU:CB	2.64	0.67
1:j:81:GLN:OE1	1:j:81:GLN:HA	1.94	0.67
1:j:277:ARG:NH1	1:j:351:ARG:HH22	1.83	0.67
1:k:20:LEU:HD12	1:k:167:VAL:CG1	2.24	0.67
1:k:300:VAL:HG12	1:k:327:ILE:HG21	0.69	0.67
1:l:292:ILE:HD13	1:l:335:GLN:NE2	2.00	0.67
1:a:157:PRO:HG2	1:b:173:PHE:HB2	1.75	0.67
1:a:279:LEU:HD13	1:a:279:LEU:C	2.19	0.67
1:a:358:LEU:CD1	1:a:360:SER:H	2.08	0.67
1:a:404:LEU:O	1:a:408:LEU:HG	1.95	0.67
1:b:398:LEU:N	1:b:399:PRO:CD	2.57	0.67
1:b:408:LEU:O	1:b:414:ILE:CG1	2.43	0.67
1:e:81:GLN:HA	1:e:81:GLN:OE1	1.94	0.67
1:e:305:ILE:O	1:e:307:GLN:HG3	1.94	0.67
1:f:398:LEU:N	1:f:399:PRO:CD	2.58	0.67
1:f:457:ASP:OD1	1:f:457:ASP:N	2.26	0.67
1:g:42:LEU:C	1:g:162:ARG:NH2	2.51	0.67
1:g:404:LEU:O	1:g:408:LEU:HG	1.95	0.67
1:h:20:LEU:HD12	1:h:167:VAL:CG1	2.24	0.67
1:h:86:LEU:HD21	1:h:424:PRO:CB	2.17	0.67
1:h:372:GLU:CD	1:h:372:GLU:H	2.03	0.67
1:h:404:LEU:O	1:h:408:LEU:HG	1.95	0.67
1:i:54:TYR:HE2	1:i:56:THR:HG22	1.59	0.67
1:i:305:ILE:O	1:i:307:GLN:HG3	1.94	0.67
1:j:110:LEU:HD12	1:j:110:LEU:C	2.18	0.67
1:j:148:PRO:HD3	1:j:156:ASN:ND2	2.04	0.67
1:j:481:ILE:HD13	1:k:466:ILE:HD11	0.68	0.67
1:k:131:PHE:CE2	1:l:387:GLY:HA3	2.29	0.67
1:l:300:VAL:HG12	1:l:327:ILE:HG21	0.69	0.67
1:d:408:LEU:O	1:d:414:ILE:CG1	2.43	0.67
1:e:55:GLN:H	1:e:55:GLN:CD	2.02	0.67
1:e:86:LEU:HD21	1:e:424:PRO:CG	2.24	0.67
1:e:126:TYR:CE1	1:e:158:MET:CB	2.74	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:279:LEU:HD13	1:e:279:LEU:C	2.19	0.67
1:f:110:LEU:HD12	1:f:110:LEU:C	2.18	0.67
1:f:162:ARG:HD2	1:g:260:ASP:OD2	1.91	0.67
1:f:254:ILE:CD1	1:f:396:LEU:HD23	2.25	0.67
1:f:352:LEU:HD13	1:f:352:LEU:C	2.17	0.67
1:j:66:LEU:HD21	1:j:135:LYS:HD2	1.76	0.67
1:j:254:ILE:CD1	1:j:396:LEU:HD23	2.25	0.67
1:j:316:THR:HB	1:k:294:SER:O	1.94	0.67
1:k:134:LEU:O	1:k:134:LEU:HD13	1.95	0.67
1:l:404:LEU:O	1:l:408:LEU:HG	1.95	0.67
1:a:305:ILE:O	1:a:307:GLN:HG3	1.94	0.67
1:b:54:TYR:HE2	1:b:56:THR:HG22	1.58	0.67
1:b:143:VAL:N	1:b:166:TYR:HE2	1.87	0.67
1:c:439:LEU:HD21	1:d:474:ILE:HD11	1.77	0.67
1:d:400:LEU:HD13	1:d:400:LEU:C	2.18	0.67
1:e:372:GLU:CD	1:e:372:GLU:H	2.03	0.67
1:f:86:LEU:HD21	1:f:424:PRO:CB	2.17	0.67
1:f:305:ILE:O	1:f:307:GLN:HG3	1.94	0.67
1:h:66:LEU:HD21	1:h:135:LYS:HD2	1.76	0.67
1:h:408:LEU:O	1:h:414:ILE:CG1	2.43	0.67
1:i:134:LEU:O	1:i:134:LEU:HD13	1.95	0.67
1:i:279:LEU:HD13	1:i:279:LEU:C	2.19	0.67
1:i:400:LEU:HD13	1:i:400:LEU:C	2.18	0.67
1:j:157:PRO:HG2	1:k:173:PHE:CB	2.24	0.67
1:k:28:GLU:O	1:k:31:ALA:HB3	1.95	0.67
1:k:305:ILE:O	1:k:307:GLN:HG3	1.94	0.67
1:a:131:PHE:CE2	1:b:387:GLY:HA3	2.30	0.67
1:a:134:LEU:O	1:a:134:LEU:HD13	1.95	0.67
1:a:316:THR:HB	1:b:294:SER:O	1.93	0.67
1:a:335:GLN:HE22	1:b:336:ALA:CB	2.04	0.67
1:a:408:LEU:O	1:a:414:ILE:CG1	2.43	0.67
1:b:80:MET:CB	1:b:127:ARG:CZ	2.71	0.67
1:c:143:VAL:N	1:c:166:TYR:HE2	1.87	0.67
1:c:300:VAL:HG12	1:c:327:ILE:HG21	0.69	0.67
1:c:305:ILE:O	1:c:307:GLN:HG3	1.94	0.67
1:d:457:ASP:N	1:d:457:ASP:OD1	2.26	0.67
1:e:80:MET:HG3	1:e:127:ARG:HH22	1.54	0.67
1:f:134:LEU:O	1:f:134:LEU:HD13	1.95	0.67
1:f:368:ARG:C	1:f:370:THR:HB	2.18	0.67
1:g:54:TYR:HE2	1:g:56:THR:HG22	1.57	0.67
1:g:305:ILE:O	1:g:307:GLN:HG3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:398:LEU:N	1:g:399:PRO:CD	2.58	0.67
1:i:28:GLU:O	1:i:31:ALA:HB3	1.95	0.67
1:j:39:ILE:HG23	1:j:63:ALA:HB1	1.75	0.67
1:k:32:GLN:HA	1:k:32:GLN:NE2	2.09	0.67
1:k:408:LEU:O	1:k:414:ILE:CG1	2.43	0.67
1:l:42:LEU:C	1:l:162:ARG:NH2	2.51	0.67
1:l:408:LEU:O	1:l:414:ILE:CG1	2.43	0.67
1:a:297:ILE:CG2	1:l:320:VAL:HG12	2.02	0.67
1:a:400:LEU:HD13	1:a:400:LEU:C	2.18	0.67
1:b:42:LEU:C	1:b:162:ARG:NH2	2.51	0.67
1:b:439:LEU:HD21	1:c:474:ILE:HD11	1.77	0.67
1:c:81:GLN:OE1	1:c:81:GLN:HA	1.94	0.67
1:d:28:GLU:O	1:d:31:ALA:HB3	1.95	0.67
1:e:28:GLU:O	1:e:31:ALA:HB3	1.95	0.67
1:f:146:TYR:CE1	1:f:251:TYR:CE2	2.83	0.67
1:g:72:LYS:HZ3	1:g:72:LYS:HB2	1.59	0.67
1:g:81:GLN:OE1	1:g:81:GLN:HA	1.94	0.67
1:g:254:ILE:CD1	1:g:396:LEU:HD23	2.25	0.67
1:h:39:ILE:HG23	1:h:63:ALA:HB1	1.75	0.67
1:h:305:ILE:O	1:h:307:GLN:HG3	1.94	0.67
1:h:369:VAL:HA	1:h:370:THR:HB	1.76	0.67
1:h:442:LEU:HD21	1:h:476:ILE:HG21	1.77	0.67
1:i:66:LEU:HD21	1:i:135:LYS:HD2	1.76	0.67
1:i:131:PHE:CE2	1:j:387:GLY:HA3	2.29	0.67
1:i:292:ILE:CD1	1:i:335:GLN:HE21	2.01	0.67
1:l:20:LEU:HD12	1:l:167:VAL:CG1	2.24	0.67
1:a:72:LYS:HA	1:a:72:LYS:HZ2	1.59	0.67
1:b:66:LEU:HD21	1:b:135:LYS:HD2	1.76	0.67
1:c:28:GLU:O	1:c:31:ALA:HB3	1.95	0.67
1:d:55:GLN:H	1:d:55:GLN:CD	2.03	0.67
1:d:134:LEU:O	1:d:134:LEU:HD13	1.95	0.67
1:f:80:MET:HG3	1:f:127:ARG:HH22	1.54	0.67
1:f:81:GLN:OE1	1:f:81:GLN:HA	1.94	0.67
1:g:146:TYR:CE1	1:g:251:TYR:CE2	2.83	0.67
1:g:408:LEU:O	1:g:414:ILE:CG1	2.43	0.67
1:i:86:LEU:HD21	1:i:424:PRO:CG	2.24	0.67
1:k:17:TYR:HH	1:k:24:ARG:NH2	1.90	0.67
1:l:86:LEU:HD21	1:l:424:PRO:CG	2.24	0.67
1:l:142:ASN:ND2	1:l:142:ASN:O	2.28	0.67
1:l:368:ARG:C	1:l:370:THR:HA	2.20	0.67
1:a:142:ASN:ND2	1:a:142:ASN:O	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:134:LEU:O	1:c:134:LEU:HD13	1.95	0.67
1:c:146:TYR:CE1	1:c:251:TYR:CE2	2.83	0.67
1:c:398:LEU:N	1:c:399:PRO:CD	2.57	0.67
1:d:146:TYR:CE1	1:d:251:TYR:CE2	2.83	0.67
1:d:335:GLN:HE22	1:e:336:ALA:CB	2.05	0.67
1:d:404:LEU:O	1:d:408:LEU:HG	1.95	0.67
1:e:110:LEU:HD12	1:e:110:LEU:C	2.18	0.67
1:f:404:LEU:O	1:f:408:LEU:HG	1.95	0.67
1:f:439:LEU:HD23	1:g:473:ALA:CB	2.25	0.67
1:g:86:LEU:HD21	1:g:424:PRO:CB	2.17	0.67
1:g:331:GLN:HE21	1:h:335:GLN:HA	1.60	0.67
1:h:398:LEU:N	1:h:399:PRO:CD	2.57	0.67
1:i:439:LEU:CD2	1:j:474:ILE:HD11	2.24	0.67
1:j:372:GLU:CD	1:j:372:GLU:H	2.03	0.67
1:j:450:ALA:N	1:k:455:MET:HE1	2.09	0.67
1:b:142:ASN:O	1:b:142:ASN:ND2	2.28	0.66
1:b:146:TYR:CE1	1:b:251:TYR:CE2	2.83	0.66
1:b:157:PRO:HG2	1:c:173:PHE:CB	2.25	0.66
1:b:316:THR:HB	1:c:294:SER:O	1.95	0.66
1:b:457:ASP:N	1:b:457:ASP:OD1	2.26	0.66
1:c:408:LEU:O	1:c:414:ILE:CG1	2.43	0.66
1:d:42:LEU:C	1:d:162:ARG:NH2	2.51	0.66
1:d:372:GLU:H	1:d:372:GLU:CD	2.03	0.66
1:f:369:VAL:HA	1:f:370:THR:HB	1.76	0.66
1:f:372:GLU:H	1:f:372:GLU:CD	2.03	0.66
1:g:38:THR:CG2	1:g:63:ALA:HA	2.26	0.66
1:g:86:LEU:HD21	1:g:424:PRO:CG	2.24	0.66
1:g:398:LEU:HD22	1:g:426:ILE:HD11	1.74	0.66
1:j:86:LEU:HD21	1:j:424:PRO:CG	2.24	0.66
1:j:279:LEU:HD13	1:j:279:LEU:C	2.19	0.66
1:k:279:LEU:HD13	1:k:279:LEU:C	2.19	0.66
1:k:404:LEU:O	1:k:408:LEU:HG	1.95	0.66
1:a:80:MET:HG3	1:a:127:ARG:HH22	1.54	0.66
1:b:292:ILE:HD13	1:b:335:GLN:NE2	2.01	0.66
1:d:305:ILE:O	1:d:307:GLN:HG3	1.94	0.66
1:d:481:ILE:CD1	1:e:466:ILE:HG12	1.95	0.66
1:e:146:TYR:CE1	1:e:251:TYR:CE2	2.83	0.66
1:e:316:THR:HB	1:f:294:SER:O	1.95	0.66
1:e:398:LEU:N	1:e:399:PRO:CD	2.58	0.66
1:f:132:GLU:CG	1:g:258:ARG:O	2.35	0.66
1:f:397:GLN:CB	1:f:426:ILE:CG1	2.72	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:408:LEU:O	1:f:414:ILE:CG1	2.43	0.66
1:g:14:LYS:HZ2	1:g:19:ARG:HE	1.41	0.66
1:g:131:PHE:CE2	1:h:387:GLY:HA3	2.30	0.66
1:g:279:LEU:HD13	1:g:279:LEU:C	2.19	0.66
1:h:146:TYR:CE1	1:h:251:TYR:CE2	2.83	0.66
1:i:457:ASP:OD1	1:i:457:ASP:N	2.26	0.66
1:k:254:ILE:CD1	1:k:396:LEU:HD23	2.25	0.66
1:k:292:ILE:HD13	1:k:335:GLN:NE2	2.00	0.66
1:l:398:LEU:N	1:l:399:PRO:CD	2.58	0.66
1:a:28:GLU:O	1:a:31:ALA:HB3	1.95	0.66
1:a:146:TYR:CE1	1:a:251:TYR:CE2	2.83	0.66
1:a:246:LYS:HE3	1:a:246:LYS:CA	2.25	0.66
1:a:474:ILE:HD11	1:l:439:LEU:HD21	1.77	0.66
1:b:28:GLU:O	1:b:31:ALA:HB3	1.95	0.66
1:c:316:THR:HB	1:d:294:SER:O	1.95	0.66
1:d:81:GLN:OE1	1:d:81:GLN:HA	1.94	0.66
1:e:134:LEU:HD13	1:e:134:LEU:O	1.95	0.66
1:e:142:ASN:O	1:e:142:ASN:ND2	2.28	0.66
1:e:254:ILE:CD1	1:e:396:LEU:HD23	2.25	0.66
1:e:277:ARG:NH1	1:e:351:ARG:HH22	1.83	0.66
1:f:290:SER:O	1:g:284:GLU:CG	2.43	0.66
1:h:28:GLU:O	1:h:31:ALA:HB3	1.95	0.66
1:h:54:TYR:HE2	1:h:56:THR:HG22	1.58	0.66
1:h:134:LEU:HD13	1:h:134:LEU:O	1.95	0.66
1:h:146:TYR:HH	1:h:251:TYR:HE2	1.43	0.66
1:h:316:THR:HB	1:i:294:SER:O	1.94	0.66
1:i:408:LEU:O	1:i:414:ILE:CG1	2.43	0.66
1:k:86:LEU:HD21	1:k:424:PRO:CG	2.24	0.66
1:k:277:ARG:NH1	1:k:351:ARG:HH22	1.82	0.66
1:k:398:LEU:HD22	1:k:426:ILE:HD11	1.74	0.66
1:l:38:THR:CG2	1:l:63:ALA:HA	2.26	0.66
1:a:481:ILE:HD13	1:b:466:ILE:HD11	0.67	0.66
1:b:38:THR:CG2	1:b:63:ALA:HA	2.26	0.66
1:b:404:LEU:O	1:b:408:LEU:HG	1.95	0.66
1:c:80:MET:CE	1:c:122:GLU:CD	2.68	0.66
1:c:157:PRO:HG2	1:d:173:PHE:CB	2.25	0.66
1:c:372:GLU:H	1:c:372:GLU:CD	2.03	0.66
1:d:290:SER:O	1:e:284:GLU:CG	2.44	0.66
1:d:449:TRP:O	1:e:455:MET:HE2	1.96	0.66
1:e:39:ILE:HG23	1:e:63:ALA:HB1	1.75	0.66
1:e:128:VAL:HB	1:f:390:SER:OG	1.92	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:142:ASN:H	1:e:142:ASN:HD22	1.44	0.66
1:e:404:LEU:O	1:e:408:LEU:HG	1.95	0.66
1:f:131:PHE:CE2	1:g:387:GLY:HA3	2.30	0.66
1:f:137:LEU:HD11	1:f:256:MET:SD	2.36	0.66
1:i:292:ILE:HD13	1:i:335:GLN:NE2	2.01	0.66
1:i:404:LEU:O	1:i:408:LEU:HG	1.95	0.66
1:j:254:ILE:HD13	1:j:396:LEU:HD23	1.78	0.66
1:j:305:ILE:O	1:j:307:GLN:HG3	1.94	0.66
1:j:398:LEU:N	1:j:399:PRO:CD	2.58	0.66
1:k:146:TYR:CE1	1:k:251:TYR:CE2	2.83	0.66
1:k:254:ILE:HD13	1:k:396:LEU:HD23	1.78	0.66
1:k:331:GLN:HE21	1:l:335:GLN:HA	1.59	0.66
1:k:368:ARG:O	1:l:373:GLU:OE2	2.14	0.66
1:k:372:GLU:H	1:k:372:GLU:CD	2.03	0.66
1:l:32:GLN:NE2	1:l:32:GLN:HA	2.08	0.66
1:l:146:TYR:CE1	1:l:251:TYR:CE2	2.83	0.66
1:l:300:VAL:CA	1:l:327:ILE:CG2	2.22	0.66
1:b:14:LYS:HZ2	1:b:19:ARG:HE	1.43	0.66
1:c:66:LEU:HD21	1:c:135:LYS:HD2	1.76	0.66
1:c:128:VAL:HB	1:d:390:SER:OG	1.93	0.66
1:c:142:ASN:H	1:c:142:ASN:HD22	1.44	0.66
1:e:170:ARG:HB3	1:e:172:ALA:HB3	1.78	0.66
1:f:28:GLU:O	1:f:31:ALA:HB3	1.95	0.66
1:f:66:LEU:HD21	1:f:135:LYS:HD2	1.76	0.66
1:f:142:ASN:O	1:f:142:ASN:ND2	2.28	0.66
1:g:282:LEU:CD2	1:h:277:ARG:CZ	2.74	0.66
1:i:146:TYR:CE1	1:i:251:TYR:CE2	2.83	0.66
1:i:254:ILE:CD1	1:i:396:LEU:HD23	2.25	0.66
1:i:372:GLU:H	1:i:372:GLU:CD	2.03	0.66
1:i:439:LEU:HD23	1:j:473:ALA:CB	2.25	0.66
1:i:442:LEU:HD21	1:i:476:ILE:HG21	1.77	0.66
1:j:32:GLN:NE2	1:j:32:GLN:HA	2.09	0.66
1:j:292:ILE:CD1	1:j:335:GLN:HE21	2.01	0.66
1:j:408:LEU:O	1:j:414:ILE:CG1	2.43	0.66
1:k:80:MET:CE	1:k:122:GLU:CD	2.68	0.66
1:k:81:GLN:OE1	1:k:81:GLN:HA	1.94	0.66
1:k:146:TYR:HH	1:k:251:TYR:HE2	1.42	0.66
1:b:80:MET:CE	1:b:122:GLU:CD	2.69	0.66
1:b:134:LEU:O	1:b:134:LEU:HD13	1.95	0.66
1:b:181:THR:OG1	1:b:215:THR:OG1	1.92	0.66
1:d:66:LEU:HD21	1:d:135:LYS:CG	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:66:LEU:HD21	1:d:135:LYS:HD2	1.76	0.66
1:d:142:ASN:HD22	1:d:142:ASN:H	1.44	0.66
1:d:170:ARG:HB3	1:d:172:ALA:HB3	1.78	0.66
1:d:179:MET:HB2	1:d:217:ILE:HD12	1.77	0.66
1:d:439:LEU:HD23	1:e:473:ALA:CB	2.25	0.66
1:e:38:THR:CG2	1:e:63:ALA:HA	2.26	0.66
1:e:300:VAL:CA	1:e:327:ILE:CG2	2.22	0.66
1:e:320:VAL:HG12	1:f:297:ILE:CG2	2.01	0.66
1:f:142:ASN:H	1:f:142:ASN:HD22	1.44	0.66
1:g:28:GLU:O	1:g:31:ALA:HB3	1.95	0.66
1:g:80:MET:CE	1:g:122:GLU:CD	2.69	0.66
1:g:134:LEU:O	1:g:134:LEU:HD13	1.95	0.66
1:h:137:LEU:HD11	1:h:256:MET:SD	2.36	0.66
1:h:254:ILE:HD13	1:h:396:LEU:HD23	1.78	0.66
1:i:38:THR:CG2	1:i:63:ALA:HA	2.26	0.66
1:i:110:LEU:HD12	1:i:110:LEU:C	2.18	0.66
1:j:146:TYR:CE1	1:j:251:TYR:CE2	2.83	0.66
1:k:126:TYR:HA	1:k:129:THR:CG2	2.26	0.66
1:k:277:ARG:CD	1:k:348:ILE:CG1	2.53	0.66
1:l:28:GLU:O	1:l:31:ALA:HB3	1.95	0.66
1:a:32:GLN:HA	1:a:32:GLN:NE2	2.09	0.66
1:a:254:ILE:HD13	1:a:396:LEU:HD23	1.78	0.66
1:b:132:GLU:CG	1:c:258:ARG:O	2.34	0.66
1:b:254:ILE:HD13	1:b:396:LEU:HD23	1.78	0.66
1:b:279:LEU:HD13	1:b:279:LEU:C	2.19	0.66
1:c:66:LEU:HD21	1:c:135:LYS:CG	2.26	0.66
1:d:14:LYS:HZ2	1:d:19:ARG:HE	1.43	0.66
1:d:38:THR:CG2	1:d:63:ALA:HA	2.26	0.66
1:d:412:GLN:O	1:d:412:GLN:HG3	1.96	0.66
1:d:481:ILE:HD13	1:e:466:ILE:HD11	0.66	0.66
1:e:14:LYS:HZ2	1:e:19:ARG:HE	1.43	0.66
1:h:80:MET:CE	1:h:122:GLU:CD	2.69	0.66
1:h:83:TRP:HD1	1:h:118:MET:CE	2.06	0.66
1:i:32:GLN:HA	1:i:32:GLN:NE2	2.09	0.66
1:i:83:TRP:HD1	1:i:118:MET:CE	2.06	0.66
1:i:157:PRO:HG2	1:j:173:PHE:CB	2.25	0.66
1:i:254:ILE:HD13	1:i:396:LEU:HD23	1.78	0.66
1:i:481:ILE:HD13	1:j:466:ILE:HD11	0.67	0.66
1:j:126:TYR:HA	1:j:129:THR:CG2	2.26	0.66
1:k:142:ASN:O	1:k:142:ASN:ND2	2.28	0.66
1:k:292:ILE:CD1	1:k:335:GLN:HE21	2.01	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:397:GLN:CB	1:k:426:ILE:CG1	2.72	0.66
1:l:66:LEU:HD21	1:l:135:LYS:HD2	1.76	0.66
1:l:254:ILE:HD13	1:l:396:LEU:HD23	1.78	0.66
1:a:259:LEU:HD22	1:a:260:ASP:CA	2.26	0.66
1:b:66:LEU:HD21	1:b:135:LYS:CG	2.26	0.66
1:b:292:ILE:CD1	1:b:335:GLN:HE21	2.01	0.66
1:c:32:GLN:HA	1:c:32:GLN:NE2	2.08	0.66
1:c:254:ILE:CD1	1:c:396:LEU:HD23	2.25	0.66
1:c:277:ARG:CD	1:c:348:ILE:CG1	2.54	0.66
1:c:342:LYS:HZ2	1:d:343:ALA:HB1	1.61	0.66
1:c:404:LEU:O	1:c:408:LEU:HG	1.95	0.66
1:d:142:ASN:ND2	1:d:142:ASN:O	2.28	0.66
1:d:254:ILE:CD1	1:d:396:LEU:HD23	2.25	0.66
1:e:66:LEU:HD21	1:e:135:LYS:CG	2.26	0.66
1:e:442:LEU:CD2	1:e:476:ILE:CD1	2.70	0.66
1:f:128:VAL:HB	1:g:390:SER:OG	1.94	0.66
1:g:142:ASN:HD22	1:g:142:ASN:H	1.44	0.66
1:h:32:GLN:HA	1:h:32:GLN:NE2	2.08	0.66
1:h:148:PRO:CD	1:h:156:ASN:HD21	2.02	0.66
1:h:225:GLU:HG3	1:h:245:PRO:HA	1.78	0.66
1:j:38:THR:CG2	1:j:63:ALA:HA	2.26	0.66
1:j:292:ILE:HD13	1:j:335:GLN:NE2	2.00	0.66
1:j:331:GLN:HE21	1:k:335:GLN:HA	1.60	0.66
1:a:66:LEU:HD21	1:a:135:LYS:CG	2.26	0.66
1:a:157:PRO:HG2	1:b:173:PHE:CB	2.26	0.66
1:a:398:LEU:O	1:a:402:ARG:CB	2.44	0.66
1:c:142:ASN:O	1:c:142:ASN:ND2	2.28	0.66
1:e:254:ILE:HD13	1:e:396:LEU:HD23	1.78	0.66
1:e:412:GLN:O	1:e:412:GLN:HG3	1.96	0.66
1:f:80:MET:CE	1:f:122:GLU:CD	2.69	0.66
1:f:342:LYS:HZ2	1:g:343:ALA:HB1	1.61	0.66
1:f:481:ILE:HD13	1:g:466:ILE:HD11	0.66	0.66
1:g:254:ILE:HD13	1:g:396:LEU:HD23	1.78	0.66
1:i:80:MET:CE	1:i:122:GLU:CD	2.69	0.66
1:j:134:LEU:O	1:j:134:LEU:HD13	1.95	0.66
1:k:38:THR:CG2	1:k:63:ALA:HA	2.26	0.66
1:l:80:MET:CE	1:l:122:GLU:CD	2.68	0.66
1:b:126:TYR:HA	1:b:129:THR:CG2	2.26	0.66
1:b:142:ASN:HD22	1:b:142:ASN:H	1.44	0.66
1:c:80:MET:HG3	1:c:127:ARG:HH22	1.54	0.66
1:c:254:ILE:HD13	1:c:396:LEU:HD23	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:368:ARG:O	1:d:373:GLU:OE2	2.14	0.66
1:c:397:GLN:CB	1:c:426:ILE:CG1	2.72	0.66
1:d:128:VAL:HB	1:e:390:SER:OG	1.94	0.66
1:d:439:LEU:CD2	1:e:474:ILE:HD11	2.26	0.66
1:g:142:ASN:O	1:g:142:ASN:ND2	2.28	0.66
1:g:170:ARG:HB3	1:g:172:ALA:HB3	1.78	0.66
1:i:137:LEU:HD11	1:i:256:MET:SD	2.36	0.66
1:j:80:MET:CE	1:j:122:GLU:CD	2.68	0.66
1:j:179:MET:HB2	1:j:217:ILE:HD12	1.77	0.66
1:k:258:ARG:HG3	1:k:258:ARG:NH1	1.95	0.66
1:k:467:LYS:HD3	1:l:461:ILE:HD11	1.78	0.66
1:l:126:TYR:HA	1:l:129:THR:CG2	2.26	0.66
1:l:148:PRO:CD	1:l:156:ASN:HD21	2.02	0.66
1:l:179:MET:CB	1:l:217:ILE:HD12	2.26	0.66
1:l:246:LYS:HE3	1:l:246:LYS:CA	2.25	0.66
1:a:42:LEU:C	1:a:162:ARG:NH2	2.51	0.65
1:a:126:TYR:HA	1:a:129:THR:CG2	2.26	0.65
1:a:179:MET:CB	1:a:217:ILE:HD12	2.26	0.65
1:a:254:ILE:CD1	1:a:396:LEU:HD23	2.25	0.65
1:c:38:THR:CG2	1:c:63:ALA:HA	2.26	0.65
1:c:259:LEU:HD22	1:c:260:ASP:CA	2.26	0.65
1:c:289:MET:O	1:d:284:GLU:OE2	2.15	0.65
1:c:338:PHE:HA	1:d:340:VAL:HG22	1.78	0.65
1:c:368:ARG:C	1:c:370:THR:HB	2.21	0.65
1:d:80:MET:CE	1:d:122:GLU:CD	2.69	0.65
1:d:254:ILE:HD13	1:d:396:LEU:HD23	1.78	0.65
1:f:66:LEU:HD21	1:f:135:LYS:CG	2.26	0.65
1:f:439:LEU:CD2	1:g:474:ILE:HD11	2.26	0.65
1:h:110:LEU:HD12	1:h:110:LEU:C	2.18	0.65
1:h:142:ASN:O	1:h:142:ASN:ND2	2.28	0.65
1:h:147:LEU:HD22	1:h:147:LEU:N	2.06	0.65
1:j:28:GLU:O	1:j:31:ALA:HB3	1.95	0.65
1:l:66:LEU:HD21	1:l:135:LYS:CG	2.26	0.65
1:a:338:PHE:HA	1:b:340:VAL:HG22	1.79	0.65
1:c:126:TYR:HA	1:c:129:THR:CG2	2.26	0.65
1:c:170:ARG:HB3	1:c:172:ALA:HB3	1.78	0.65
1:d:259:LEU:HD22	1:d:260:ASP:CA	2.26	0.65
1:d:398:LEU:O	1:d:402:ARG:CB	2.44	0.65
1:d:426:ILE:O	1:d:426:ILE:HG22	1.96	0.65
1:e:225:GLU:HG3	1:e:245:PRO:HA	1.78	0.65
1:f:38:THR:CG2	1:f:63:ALA:HA	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:170:ARG:HB3	1:f:172:ALA:HB3	1.78	0.65
1:f:254:ILE:HD13	1:f:396:LEU:HD23	1.78	0.65
1:g:66:LEU:HD21	1:g:135:LYS:HD2	1.76	0.65
1:h:157:PRO:HG2	1:i:173:PHE:CB	2.26	0.65
1:h:338:PHE:HA	1:i:340:VAL:HG22	1.78	0.65
1:i:42:LEU:C	1:i:162:ARG:NH2	2.51	0.65
1:l:279:LEU:HD13	1:l:279:LEU:C	2.19	0.65
1:a:173:PHE:CB	1:l:157:PRO:HG2	2.26	0.65
1:b:398:LEU:O	1:b:402:ARG:CB	2.44	0.65
1:c:292:ILE:HD13	1:c:335:GLN:NE2	2.00	0.65
1:c:450:ALA:N	1:d:455:MET:HE1	2.08	0.65
1:e:80:MET:CE	1:e:122:GLU:CD	2.68	0.65
1:e:282:LEU:CD2	1:f:277:ARG:CZ	2.73	0.65
1:g:246:LYS:HE3	1:g:246:LYS:CA	2.25	0.65
1:i:126:TYR:HA	1:i:129:THR:CG2	2.26	0.65
1:i:385:LEU:CD1	1:i:388:VAL:HG21	2.27	0.65
1:j:442:LEU:HD21	1:j:476:ILE:HG21	1.77	0.65
1:k:66:LEU:HD21	1:k:135:LYS:CG	2.26	0.65
1:k:179:MET:HB2	1:k:217:ILE:HD12	1.78	0.65
1:k:225:GLU:HG3	1:k:245:PRO:HA	1.79	0.65
1:k:338:PHE:HA	1:l:340:VAL:HG22	1.78	0.65
1:l:134:LEU:O	1:l:134:LEU:HD13	1.95	0.65
1:l:179:MET:HB2	1:l:217:ILE:HD12	1.78	0.65
1:a:277:ARG:CD	1:a:348:ILE:CG1	2.54	0.65
1:a:340:VAL:HG22	1:l:338:PHE:HA	1.79	0.65
1:a:439:LEU:HD21	1:b:474:ILE:HD11	1.78	0.65
1:b:170:ARG:CD	1:b:177:LEU:CD1	2.65	0.65
1:c:412:GLN:O	1:c:412:GLN:HG3	1.96	0.65
1:d:126:TYR:HA	1:d:129:THR:CG2	2.26	0.65
1:d:325:GLU:HA	1:e:299:LEU:HD13	1.77	0.65
1:e:179:MET:HB2	1:e:217:ILE:HD12	1.78	0.65
1:g:83:TRP:HD1	1:g:118:MET:CE	2.06	0.65
1:i:142:ASN:ND2	1:i:142:ASN:O	2.28	0.65
1:j:131:PHE:CE2	1:k:387:GLY:HA3	2.31	0.65
1:j:225:GLU:HG3	1:j:245:PRO:HA	1.79	0.65
1:j:404:LEU:O	1:j:408:LEU:HG	1.95	0.65
1:j:439:LEU:CD2	1:k:474:ILE:HD11	2.25	0.65
1:k:126:TYR:CZ	1:k:158:MET:CE	2.61	0.65
1:k:157:PRO:HG2	1:l:173:PHE:CB	2.26	0.65
1:l:372:GLU:H	1:l:372:GLU:CD	2.03	0.65
1:a:142:ASN:HD22	1:a:142:ASN:H	1.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:259:LEU:HD22	1:b:260:ASP:CA	2.26	0.65
1:c:137:LEU:HD11	1:c:256:MET:SD	2.36	0.65
1:c:331:GLN:HE21	1:d:335:GLN:HA	1.61	0.65
1:c:426:ILE:HG22	1:c:426:ILE:O	1.97	0.65
1:d:320:VAL:HG12	1:e:297:ILE:CG2	2.04	0.65
1:e:179:MET:CB	1:e:217:ILE:HD12	2.26	0.65
1:e:181:THR:HG1	1:e:215:THR:HG1	0.65	0.65
1:e:246:LYS:HE3	1:e:246:LYS:CA	2.25	0.65
1:f:42:LEU:C	1:f:162:ARG:NH2	2.51	0.65
1:f:179:MET:CB	1:f:217:ILE:HD12	2.27	0.65
1:g:66:LEU:HD21	1:g:135:LYS:CG	2.26	0.65
1:g:110:LEU:HD12	1:g:110:LEU:C	2.18	0.65
1:g:179:MET:HB2	1:g:217:ILE:HD12	1.78	0.65
1:h:38:THR:CG2	1:h:63:ALA:HA	2.26	0.65
1:h:142:ASN:H	1:h:142:ASN:HD22	1.44	0.65
1:h:282:LEU:CD2	1:i:277:ARG:CZ	2.74	0.65
1:k:259:LEU:HD22	1:k:260:ASP:CA	2.26	0.65
1:l:292:ILE:CD1	1:l:335:GLN:HE21	2.01	0.65
1:a:170:ARG:CD	1:a:177:LEU:CD1	2.66	0.65
1:b:398:LEU:HD22	1:b:426:ILE:HD11	1.74	0.65
1:c:400:LEU:HD13	1:c:400:LEU:C	2.18	0.65
1:d:342:LYS:HZ2	1:e:343:ALA:HB1	1.62	0.65
1:e:66:LEU:HD21	1:e:135:LYS:HD2	1.76	0.65
1:e:398:LEU:O	1:e:402:ARG:CB	2.44	0.65
1:e:426:ILE:HG22	1:e:426:ILE:O	1.97	0.65
1:f:359:ASN:CG	1:g:380:GLU:CB	2.66	0.65
1:g:293:SER:OG	1:h:284:GLU:OE2	2.15	0.65
1:h:398:LEU:HD22	1:h:426:ILE:HD11	1.74	0.65
1:i:442:LEU:CD2	1:i:476:ILE:CD1	2.70	0.65
1:j:83:TRP:HD1	1:j:118:MET:CE	2.06	0.65
1:j:385:LEU:CD1	1:j:388:VAL:HG21	2.27	0.65
1:j:397:GLN:CB	1:j:426:ILE:CG1	2.72	0.65
1:k:442:LEU:HD21	1:k:476:ILE:HG21	1.76	0.65
1:l:254:ILE:CD1	1:l:396:LEU:HD23	2.25	0.65
1:l:398:LEU:O	1:l:402:ARG:CB	2.44	0.65
1:a:38:THR:CG2	1:a:63:ALA:HA	2.26	0.65
1:a:343:ALA:HB1	1:l:342:LYS:HZ2	1.61	0.65
1:b:442:LEU:HD21	1:b:476:ILE:HG21	1.77	0.65
1:d:80:MET:HG3	1:d:127:ARG:HH22	1.54	0.65
1:d:137:LEU:HD11	1:d:256:MET:SD	2.36	0.65
1:d:331:GLN:HE21	1:e:335:GLN:HA	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:126:TYR:HA	1:e:129:THR:CG2	2.26	0.65
1:e:290:SER:O	1:f:284:GLU:HG2	1.96	0.65
1:e:467:LYS:HD3	1:f:461:ILE:HD11	1.77	0.65
1:f:361:ALA:O	1:f:366:GLY:O	2.14	0.65
1:g:225:GLU:HG3	1:g:245:PRO:HA	1.78	0.65
1:g:338:PHE:HA	1:h:340:VAL:HG22	1.78	0.65
1:h:170:ARG:HB3	1:h:172:ALA:HB3	1.78	0.65
1:h:259:LEU:HD22	1:h:260:ASP:CA	2.26	0.65
1:h:385:LEU:CD1	1:h:388:VAL:HG21	2.27	0.65
1:i:439:LEU:HD21	1:j:474:ILE:HD11	1.78	0.65
1:j:142:ASN:O	1:j:142:ASN:ND2	2.28	0.65
1:j:342:LYS:HZ2	1:k:343:ALA:HB1	1.62	0.65
1:k:246:LYS:HE3	1:k:246:LYS:CA	2.25	0.65
1:k:368:ARG:CA	1:l:373:GLU:OE2	2.45	0.65
1:k:385:LEU:CD1	1:k:388:VAL:HG21	2.27	0.65
1:a:80:MET:CE	1:a:122:GLU:CD	2.69	0.65
1:a:335:GLN:HA	1:l:331:GLN:HE21	1.61	0.65
1:b:225:GLU:HG3	1:b:245:PRO:HA	1.78	0.65
1:b:289:MET:O	1:c:284:GLU:OE2	2.15	0.65
1:b:359:ASN:CG	1:c:380:GLU:CB	2.66	0.65
1:b:426:ILE:O	1:b:426:ILE:HG22	1.97	0.65
1:c:159:LYS:CE	1:c:161:TYR:HE1	2.06	0.65
1:d:179:MET:CB	1:d:217:ILE:HD12	2.26	0.65
1:e:325:GLU:N	1:f:299:LEU:HD13	2.12	0.65
1:e:338:PHE:HA	1:f:340:VAL:HG22	1.78	0.65
1:e:395:GLU:O	1:e:399:PRO:HG2	1.97	0.65
1:f:225:GLU:HG3	1:f:245:PRO:HA	1.78	0.65
1:f:259:LEU:HD22	1:f:260:ASP:CA	2.26	0.65
1:f:449:TRP:O	1:g:455:MET:HE2	1.96	0.65
1:g:157:PRO:HG2	1:h:173:PHE:CB	2.26	0.65
1:h:66:LEU:HD21	1:h:135:LYS:CG	2.26	0.65
1:h:166:TYR:HD1	1:h:166:TYR:O	1.80	0.65
1:h:246:LYS:HE3	1:h:246:LYS:CA	2.25	0.65
1:h:370:THR:HG23	1:h:371:ALA:N	2.12	0.65
1:i:361:ALA:O	1:i:366:GLY:O	2.15	0.65
1:k:137:LEU:HD11	1:k:256:MET:SD	2.36	0.65
1:k:170:ARG:HB3	1:k:172:ALA:HB3	1.78	0.65
1:k:179:MET:CB	1:k:217:ILE:HD12	2.27	0.65
1:k:368:ARG:C	1:l:373:GLU:OE2	2.38	0.65
1:b:170:ARG:HB3	1:b:172:ALA:HB3	1.78	0.65
1:b:368:ARG:C	1:c:373:GLU:OE2	2.40	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:395:GLU:O	1:b:399:PRO:HG2	1.97	0.65
1:d:131:PHE:CE2	1:e:387:GLY:HA3	2.31	0.65
1:f:179:MET:HB2	1:f:217:ILE:HD12	1.77	0.65
1:f:268:TYR:O	1:f:271:GLU:N	2.26	0.65
1:f:426:ILE:O	1:f:426:ILE:HG22	1.97	0.65
1:g:179:MET:CB	1:g:217:ILE:HD12	2.27	0.65
1:i:395:GLU:O	1:i:399:PRO:HG2	1.97	0.65
1:k:412:GLN:O	1:k:412:GLN:HG3	1.95	0.65
1:l:406:LYS:HA	1:l:406:LYS:HZ3	1.62	0.65
1:l:442:LEU:HD21	1:l:476:ILE:HG21	1.77	0.65
1:a:225:GLU:HG3	1:a:245:PRO:HA	1.78	0.65
1:c:54:TYR:HE2	1:c:56:THR:HG22	1.59	0.65
1:f:166:TYR:O	1:f:166:TYR:HD1	1.80	0.65
1:f:253:PRO:O	1:f:395:GLU:OE1	2.15	0.65
1:g:137:LEU:HD11	1:g:256:MET:SD	2.36	0.65
1:h:126:TYR:HA	1:h:129:THR:CG2	2.26	0.65
1:h:254:ILE:CD1	1:h:396:LEU:HD23	2.25	0.65
1:i:179:MET:HB2	1:i:217:ILE:HD12	1.78	0.65
1:j:66:LEU:HD21	1:j:135:LYS:CG	2.26	0.65
1:j:132:GLU:CG	1:k:258:ARG:O	2.35	0.65
1:j:179:MET:CB	1:j:217:ILE:HD12	2.26	0.65
1:j:398:LEU:O	1:j:402:ARG:CB	2.44	0.65
1:k:166:TYR:O	1:k:166:TYR:HD1	1.80	0.65
1:k:442:LEU:CD2	1:k:476:ILE:CD1	2.70	0.65
1:a:179:MET:HB2	1:a:217:ILE:HD12	1.78	0.64
1:b:338:PHE:HA	1:c:340:VAL:HG22	1.79	0.64
1:d:225:GLU:HG3	1:d:245:PRO:HA	1.78	0.64
1:f:83:TRP:HD1	1:f:118:MET:CE	2.06	0.64
1:f:442:LEU:CD2	1:f:476:ILE:CD1	2.70	0.64
1:h:14:LYS:HZ2	1:h:19:ARG:HE	1.44	0.64
1:h:179:MET:CB	1:h:217:ILE:HD12	2.26	0.64
1:h:290:SER:O	1:i:284:GLU:HG2	1.97	0.64
1:i:338:PHE:HA	1:j:340:VAL:HG22	1.79	0.64
1:i:412:GLN:O	1:i:412:GLN:HG3	1.95	0.64
1:j:142:ASN:HD22	1:j:142:ASN:H	1.44	0.64
1:j:412:GLN:O	1:j:412:GLN:HG3	1.96	0.64
1:k:83:TRP:HD1	1:k:118:MET:CE	2.06	0.64
1:k:142:ASN:H	1:k:142:ASN:HD22	1.44	0.64
1:a:368:ARG:C	1:a:370:THR:HB	2.22	0.64
1:a:442:LEU:HD21	1:a:476:ILE:HG21	1.77	0.64
1:b:179:MET:HB2	1:b:217:ILE:HD12	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:179:MET:CB	1:b:217:ILE:HD12	2.27	0.64
1:b:282:LEU:CD2	1:c:277:ARG:CZ	2.75	0.64
1:c:170:ARG:CD	1:c:177:LEU:CD1	2.65	0.64
1:d:126:TYR:CE1	1:d:158:MET:CB	2.74	0.64
1:d:126:TYR:CZ	1:d:158:MET:CE	2.61	0.64
1:d:132:GLU:CG	1:e:258:ARG:O	2.35	0.64
1:d:289:MET:O	1:e:284:GLU:OE2	2.15	0.64
1:e:166:TYR:HD1	1:e:166:TYR:O	1.80	0.64
1:g:259:LEU:HD22	1:g:260:ASP:CA	2.26	0.64
1:g:385:LEU:CD1	1:g:388:VAL:HG21	2.27	0.64
1:i:66:LEU:HD21	1:i:135:LYS:CG	2.26	0.64
1:i:246:LYS:HE3	1:i:246:LYS:CA	2.25	0.64
1:j:246:LYS:HE3	1:j:246:LYS:CA	2.25	0.64
1:j:259:LEU:HD22	1:j:260:ASP:CA	2.26	0.64
1:l:170:ARG:HB3	1:l:172:ALA:HB3	1.78	0.64
1:l:259:LEU:HD22	1:l:260:ASP:CA	2.26	0.64
1:l:395:GLU:O	1:l:399:PRO:HG2	1.97	0.64
1:a:370:THR:H	1:a:373:GLU:HB2	1.62	0.64
1:b:354:PHE:O	1:b:357:MET:HE3	1.92	0.64
1:c:132:GLU:CG	1:d:258:ARG:O	2.33	0.64
1:c:385:LEU:CD1	1:c:388:VAL:HG21	2.27	0.64
1:c:395:GLU:O	1:c:399:PRO:HG2	1.97	0.64
1:d:166:TYR:O	1:d:166:TYR:HD1	1.80	0.64
1:f:17:TYR:CD1	1:f:167:VAL:CG2	2.81	0.64
1:f:370:THR:HG23	1:f:371:ALA:N	2.12	0.64
1:g:32:GLN:NE2	1:g:32:GLN:HA	2.09	0.64
1:g:126:TYR:HA	1:g:129:THR:CG2	2.26	0.64
1:h:253:PRO:O	1:h:395:GLU:OE1	2.16	0.64
1:h:398:LEU:O	1:h:402:ARG:CB	2.44	0.64
1:i:142:ASN:HD22	1:i:142:ASN:H	1.44	0.64
1:i:143:VAL:N	1:i:166:TYR:CE2	2.65	0.64
1:i:179:MET:CB	1:i:217:ILE:HD12	2.27	0.64
1:j:39:ILE:HD12	1:j:39:ILE:O	1.98	0.64
1:j:170:ARG:HB3	1:j:172:ALA:HB3	1.78	0.64
1:j:439:LEU:HD21	1:k:474:ILE:HD11	1.79	0.64
1:a:39:ILE:HD12	1:a:39:ILE:O	1.98	0.64
1:e:253:PRO:O	1:e:395:GLU:OE1	2.16	0.64
1:e:259:LEU:HD22	1:e:260:ASP:CA	2.26	0.64
1:f:126:TYR:HA	1:f:129:THR:CG2	2.26	0.64
1:g:253:PRO:O	1:g:395:GLU:OE1	2.16	0.64
1:h:395:GLU:O	1:h:399:PRO:HG2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:17:TYR:CD1	1:i:167:VAL:CG2	2.81	0.64
1:i:225:GLU:HG3	1:i:245:PRO:HA	1.78	0.64
1:k:148:PRO:CD	1:k:156:ASN:HD21	2.02	0.64
1:l:385:LEU:CD1	1:l:388:VAL:HG21	2.27	0.64
1:l:412:GLN:O	1:l:412:GLN:HG3	1.96	0.64
1:a:159:LYS:CE	1:a:161:TYR:HE1	2.06	0.64
1:a:289:MET:O	1:b:284:GLU:OE2	2.15	0.64
1:b:159:LYS:CE	1:b:161:TYR:HE1	2.06	0.64
1:e:157:PRO:HG2	1:f:173:PHE:CB	2.27	0.64
1:f:159:LYS:CE	1:f:161:TYR:HE1	2.06	0.64
1:f:331:GLN:HE21	1:g:335:GLN:HA	1.62	0.64
1:g:159:LYS:CE	1:g:161:TYR:HE1	2.06	0.64
1:g:395:GLU:O	1:g:399:PRO:HG2	1.97	0.64
1:g:426:ILE:O	1:g:426:ILE:HG22	1.97	0.64
1:h:179:MET:HB2	1:h:217:ILE:HD12	1.77	0.64
1:h:325:GLU:N	1:i:299:LEU:HD13	2.13	0.64
1:i:170:ARG:HB3	1:i:172:ALA:HB3	1.78	0.64
1:i:253:PRO:O	1:i:395:GLU:OE1	2.16	0.64
1:i:398:LEU:O	1:i:402:ARG:CB	2.44	0.64
1:j:14:LYS:HZ2	1:j:19:ARG:HE	1.44	0.64
1:j:166:TYR:O	1:j:166:TYR:HD1	1.80	0.64
1:k:398:LEU:O	1:k:402:ARG:CB	2.44	0.64
1:l:142:ASN:HD22	1:l:142:ASN:H	1.44	0.64
1:b:254:ILE:CD1	1:b:396:LEU:HD23	2.25	0.64
1:b:290:SER:HA	1:c:284:GLU:CD	2.22	0.64
1:c:166:TYR:O	1:c:166:TYR:HD1	1.80	0.64
1:c:179:MET:HB2	1:c:217:ILE:HD12	1.77	0.64
1:c:398:LEU:O	1:c:402:ARG:CB	2.44	0.64
1:c:442:LEU:HD21	1:c:476:ILE:HG21	1.77	0.64
1:d:253:PRO:O	1:d:395:GLU:OE1	2.16	0.64
1:d:385:LEU:CD1	1:d:388:VAL:HG21	2.27	0.64
1:f:246:LYS:HE3	1:f:246:LYS:CA	2.25	0.64
1:f:289:MET:O	1:g:284:GLU:OE2	2.15	0.64
1:f:395:GLU:O	1:f:399:PRO:HG2	1.97	0.64
1:g:126:TYR:CZ	1:g:158:MET:CE	2.61	0.64
1:h:289:MET:O	1:i:284:GLU:OE2	2.15	0.64
1:h:412:GLN:O	1:h:412:GLN:HG3	1.96	0.64
1:i:166:TYR:O	1:i:166:TYR:HD1	1.80	0.64
1:i:259:LEU:HD22	1:i:260:ASP:CA	2.26	0.64
1:i:289:MET:O	1:j:284:GLU:OE2	2.15	0.64
1:i:331:GLN:HE21	1:j:335:GLN:HA	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:137:LEU:HD11	1:l:256:MET:SD	2.36	0.64
1:l:159:LYS:CE	1:l:161:TYR:HE1	2.06	0.64
1:a:137:LEU:HD11	1:a:256:MET:SD	2.36	0.64
1:a:292:ILE:CD1	1:a:335:GLN:HE21	2.01	0.64
1:a:342:LYS:HZ2	1:b:343:ALA:HB1	1.61	0.64
1:a:426:ILE:O	1:a:426:ILE:HG22	1.97	0.64
1:b:412:GLN:O	1:b:412:GLN:HG3	1.95	0.64
1:c:179:MET:CB	1:c:217:ILE:HD12	2.26	0.64
1:c:253:PRO:O	1:c:395:GLU:OE1	2.16	0.64
1:f:398:LEU:O	1:f:402:ARG:CB	2.44	0.64
1:g:17:TYR:CD1	1:g:167:VAL:CG2	2.81	0.64
1:g:325:GLU:N	1:h:299:LEU:HD13	2.13	0.64
1:h:467:LYS:HD3	1:i:461:ILE:HD11	1.79	0.64
1:j:395:GLU:O	1:j:399:PRO:HG2	1.97	0.64
1:k:334:LYS:H	1:k:334:LYS:CD	2.09	0.64
1:k:395:GLU:O	1:k:399:PRO:HG2	1.97	0.64
1:l:170:ARG:CD	1:l:177:LEU:CD1	2.66	0.64
1:a:170:ARG:HB3	1:a:172:ALA:HB3	1.78	0.64
1:b:137:LEU:HD11	1:b:256:MET:SD	2.36	0.64
1:b:406:LYS:HA	1:b:406:LYS:HZ2	1.59	0.64
1:b:467:LYS:HD3	1:c:461:ILE:HD11	1.80	0.64
1:d:159:LYS:CE	1:d:161:TYR:HE1	2.05	0.64
1:k:426:ILE:HG22	1:k:426:ILE:O	1.97	0.64
1:l:39:ILE:HD12	1:l:39:ILE:O	1.98	0.64
1:l:101:ASP:OD1	1:l:101:ASP:N	2.31	0.64
1:l:277:ARG:NH1	1:l:351:ARG:HH22	1.83	0.64
1:a:277:ARG:CZ	1:l:282:LEU:CD2	2.76	0.64
1:b:293:SER:O	1:c:288:LYS:CG	2.45	0.64
1:c:17:TYR:CD1	1:c:167:VAL:CG2	2.81	0.64
1:e:17:TYR:CD1	1:e:167:VAL:CG2	2.81	0.64
1:e:83:TRP:HD1	1:e:118:MET:CE	2.06	0.64
1:g:166:TYR:O	1:g:166:TYR:HD1	1.80	0.64
1:g:289:MET:O	1:h:284:GLU:OE2	2.15	0.64
1:g:370:THR:HG23	1:g:371:ALA:N	2.12	0.64
1:i:126:TYR:CZ	1:i:158:MET:CE	2.61	0.64
1:i:368:ARG:C	1:i:370:THR:HB	2.20	0.64
1:i:397:GLN:CB	1:i:426:ILE:CG1	2.72	0.64
1:l:225:GLU:HG3	1:l:245:PRO:HA	1.78	0.64
1:a:455:MET:HE1	1:l:450:ALA:N	2.08	0.64
1:b:290:SER:O	1:c:284:GLU:HG2	1.97	0.64
1:b:402:ARG:HH11	1:b:402:ARG:CG	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:126:TYR:CZ	1:c:158:MET:CE	2.61	0.64
1:e:289:MET:O	1:f:284:GLU:OE2	2.15	0.64
1:e:290:SER:HA	1:f:284:GLU:CD	2.23	0.64
1:e:397:GLN:CB	1:e:426:ILE:CG1	2.72	0.64
1:f:385:LEU:CD1	1:f:388:VAL:HG21	2.27	0.64
1:j:17:TYR:CD1	1:j:167:VAL:CG2	2.81	0.64
1:j:253:PRO:O	1:j:395:GLU:OE1	2.16	0.64
1:k:402:ARG:HH11	1:k:402:ARG:CG	2.11	0.64
1:l:83:TRP:HD1	1:l:118:MET:CE	2.06	0.64
1:a:142:ASN:HA	1:a:166:TYR:CZ	2.33	0.63
1:a:166:TYR:O	1:a:166:TYR:HD1	1.80	0.63
1:a:461:ILE:HD11	1:l:467:LYS:HD3	1.80	0.63
1:b:32:GLN:NE2	1:b:32:GLN:HA	2.08	0.63
1:b:406:LYS:HA	1:b:406:LYS:HZ3	1.60	0.63
1:c:225:GLU:HG3	1:c:245:PRO:HA	1.78	0.63
1:c:402:ARG:HH11	1:c:402:ARG:CG	2.11	0.63
1:d:142:ASN:HA	1:d:166:TYR:CZ	2.33	0.63
1:h:39:ILE:HD12	1:h:39:ILE:O	1.98	0.63
1:h:426:ILE:HG22	1:h:426:ILE:O	1.96	0.63
1:j:426:ILE:O	1:j:426:ILE:HG22	1.96	0.63
1:k:39:ILE:HD12	1:k:39:ILE:O	1.98	0.63
1:l:166:TYR:O	1:l:166:TYR:HD1	1.80	0.63
1:l:442:LEU:CD2	1:l:476:ILE:CD1	2.70	0.63
1:b:166:TYR:HD1	1:b:166:TYR:O	1.80	0.63
1:b:253:PRO:O	1:b:395:GLU:OE1	2.15	0.63
1:c:290:SER:HA	1:d:284:GLU:CD	2.24	0.63
1:d:17:TYR:CD1	1:d:167:VAL:CG2	2.81	0.63
1:d:395:GLU:O	1:d:399:PRO:HG2	1.97	0.63
1:e:101:ASP:N	1:e:101:ASP:OD1	2.31	0.63
1:e:159:LYS:CE	1:e:161:TYR:HE1	2.06	0.63
1:h:293:SER:OG	1:i:284:GLU:OE2	2.16	0.63
1:j:80:MET:CG	1:j:127:ARG:CZ	2.77	0.63
1:j:143:VAL:N	1:j:166:TYR:CE2	2.65	0.63
1:k:159:LYS:CE	1:k:161:TYR:HE1	2.06	0.63
1:a:147:LEU:HD22	1:a:147:LEU:N	2.06	0.63
1:a:385:LEU:CD1	1:a:388:VAL:HG21	2.27	0.63
1:c:39:ILE:HD12	1:c:39:ILE:O	1.98	0.63
1:c:320:VAL:HG12	1:d:297:ILE:CG2	2.03	0.63
1:e:39:ILE:HD12	1:e:39:ILE:O	1.98	0.63
1:f:39:ILE:HD12	1:f:39:ILE:O	1.98	0.63
1:g:402:ARG:HH11	1:g:402:ARG:CG	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:412:GLN:O	1:g:412:GLN:HG3	1.96	0.63
1:g:442:LEU:CD2	1:g:476:ILE:CD1	2.70	0.63
1:h:17:TYR:CD1	1:h:167:VAL:CG2	2.81	0.63
1:j:289:MET:O	1:k:284:GLU:OE2	2.15	0.63
1:j:338:PHE:HA	1:k:340:VAL:HG22	1.81	0.63
1:j:442:LEU:CD2	1:j:476:ILE:CD1	2.70	0.63
1:l:426:ILE:O	1:l:426:ILE:HG22	1.96	0.63
1:a:17:TYR:CD1	1:a:167:VAL:CG2	2.81	0.63
1:a:66:LEU:HD23	1:a:66:LEU:C	2.24	0.63
1:a:146:TYR:HH	1:a:251:TYR:HE2	1.45	0.63
1:a:284:GLU:OE2	1:l:289:MET:O	2.15	0.63
1:a:325:GLU:N	1:b:299:LEU:HD13	2.14	0.63
1:a:331:GLN:HE21	1:b:335:GLN:HA	1.63	0.63
1:a:395:GLU:O	1:a:399:PRO:HG2	1.97	0.63
1:a:412:GLN:O	1:a:412:GLN:HG3	1.96	0.63
1:b:101:ASP:N	1:b:101:ASP:OD1	2.31	0.63
1:b:142:ASN:HA	1:b:166:TYR:CZ	2.33	0.63
1:c:325:GLU:N	1:d:299:LEU:HD13	2.13	0.63
1:c:467:LYS:HD3	1:d:461:ILE:HD11	1.80	0.63
1:d:370:THR:HG23	1:d:371:ALA:N	2.12	0.63
1:e:370:THR:HG23	1:e:371:ALA:N	2.12	0.63
1:f:14:LYS:HZ2	1:f:19:ARG:HE	1.45	0.63
1:h:402:ARG:HH11	1:h:402:ARG:CG	2.11	0.63
1:i:80:MET:CG	1:i:127:ARG:CZ	2.77	0.63
1:i:159:LYS:CE	1:i:161:TYR:HE1	2.05	0.63
1:k:143:VAL:N	1:k:166:TYR:CE2	2.65	0.63
1:k:253:PRO:O	1:k:395:GLU:OE1	2.15	0.63
1:k:359:ASN:CG	1:l:380:GLU:CB	2.66	0.63
1:a:257:VAL:O	1:l:132:GLU:OE1	2.16	0.63
1:b:385:LEU:CD1	1:b:388:VAL:HG21	2.27	0.63
1:c:290:SER:O	1:d:284:GLU:HG2	1.98	0.63
1:d:398:LEU:HD12	1:d:402:ARG:HH21	0.57	0.63
1:e:385:LEU:CD1	1:e:388:VAL:HG21	2.27	0.63
1:f:28:GLU:OE1	1:f:29:THR:N	2.32	0.63
1:g:28:GLU:OE1	1:g:29:THR:N	2.32	0.63
1:g:398:LEU:O	1:g:402:ARG:CB	2.44	0.63
1:g:467:LYS:HD3	1:h:461:ILE:HD11	1.79	0.63
1:i:14:LYS:HZ2	1:i:19:ARG:HE	1.45	0.63
1:i:342:LYS:HZ2	1:j:343:ALA:HB1	1.61	0.63
1:j:159:LYS:CE	1:j:161:TYR:HE1	2.06	0.63
1:j:334:LYS:H	1:j:334:LYS:CD	2.09	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:402:ARG:HH11	1:j:402:ARG:CG	2.12	0.63
1:k:42:LEU:C	1:k:162:ARG:NH2	2.51	0.63
1:k:80:MET:CG	1:k:127:ARG:CZ	2.77	0.63
1:k:370:THR:HG23	1:k:372:GLU:OE2	1.98	0.63
1:l:17:TYR:CD1	1:l:167:VAL:CG2	2.81	0.63
1:a:28:GLU:OE1	1:a:29:THR:N	2.32	0.63
1:a:253:PRO:O	1:a:395:GLU:OE1	2.15	0.63
1:a:284:GLU:OE2	1:l:293:SER:OG	2.16	0.63
1:a:293:SER:OG	1:b:284:GLU:OE2	2.15	0.63
1:e:142:ASN:HA	1:e:166:TYR:CZ	2.33	0.63
1:e:293:SER:OG	1:f:284:GLU:OE2	2.15	0.63
1:e:398:LEU:HD12	1:e:402:ARG:HH21	0.58	0.63
1:e:476:ILE:HG13	1:f:469:ARG:HH12	1.63	0.63
1:g:66:LEU:C	1:g:66:LEU:HD23	2.24	0.63
1:h:290:SER:HA	1:i:284:GLU:CD	2.23	0.63
1:k:290:SER:O	1:l:284:GLU:HG2	1.98	0.63
1:l:54:TYR:HE2	1:l:56:THR:HG22	1.59	0.63
1:l:398:LEU:HD22	1:l:426:ILE:HD11	1.74	0.63
1:b:28:GLU:OE1	1:b:29:THR:N	2.32	0.63
1:g:143:VAL:N	1:g:166:TYR:CE2	2.65	0.63
1:i:101:ASP:OD1	1:i:101:ASP:N	2.31	0.63
1:j:137:LEU:HD11	1:j:256:MET:SD	2.36	0.63
1:j:290:SER:HA	1:k:284:GLU:CD	2.23	0.63
1:l:143:VAL:N	1:l:166:TYR:CE2	2.65	0.63
1:l:146:TYR:HH	1:l:251:TYR:HE2	1.45	0.63
1:l:253:PRO:O	1:l:395:GLU:OE1	2.16	0.63
1:l:402:ARG:HH11	1:l:402:ARG:CG	2.11	0.63
1:b:17:TYR:CD1	1:b:167:VAL:CG2	2.81	0.63
1:c:278:SER:HB2	1:c:348:ILE:CG2	2.27	0.63
1:c:319:PHE:HE2	1:d:311:LEU:HB3	1.51	0.63
1:d:39:ILE:HD12	1:d:39:ILE:O	1.98	0.63
1:d:83:TRP:HD1	1:d:118:MET:CE	2.06	0.63
1:d:439:LEU:HD21	1:e:474:ILE:HD11	1.81	0.63
1:e:293:SER:O	1:f:288:LYS:CG	2.46	0.63
1:f:147:LEU:HD22	1:f:147:LEU:N	2.06	0.63
1:f:412:GLN:O	1:f:412:GLN:HG3	1.95	0.63
1:f:439:LEU:HD21	1:g:474:ILE:HD11	1.81	0.63
1:g:39:ILE:HD12	1:g:39:ILE:O	1.98	0.63
1:h:254:ILE:HA	1:h:395:GLU:HB3	1.81	0.63
1:i:128:VAL:CG1	1:j:390:SER:HG	1.99	0.63
1:j:66:LEU:HD23	1:j:66:LEU:C	2.24	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:101:ASP:N	1:k:101:ASP:OD1	2.31	0.63
1:k:293:SER:OG	1:l:284:GLU:OE2	2.15	0.63
1:b:39:ILE:HD12	1:b:39:ILE:O	1.98	0.63
1:b:66:LEU:HD23	1:b:66:LEU:C	2.24	0.63
1:b:325:GLU:N	1:c:299:LEU:HD13	2.14	0.63
1:c:132:GLU:OE1	1:d:257:VAL:O	2.16	0.63
1:c:142:ASN:HA	1:c:166:TYR:CZ	2.33	0.63
1:c:147:LEU:HD22	1:c:147:LEU:N	2.06	0.63
1:c:282:LEU:CD2	1:d:277:ARG:CZ	2.75	0.63
1:c:398:LEU:HD12	1:c:402:ARG:HH21	0.57	0.63
1:d:66:LEU:C	1:d:66:LEU:HD23	2.24	0.63
1:d:442:LEU:HD21	1:d:476:ILE:HG21	1.77	0.63
1:f:143:VAL:N	1:f:166:TYR:CE2	2.65	0.63
1:g:292:ILE:HD13	1:g:335:GLN:NE2	2.00	0.63
1:g:342:LYS:HZ2	1:h:343:ALA:HB1	1.62	0.63
1:h:20:LEU:HB3	1:h:167:VAL:HG11	0.68	0.63
1:h:80:MET:CG	1:h:127:ARG:CZ	2.77	0.63
1:h:159:LYS:CE	1:h:161:TYR:HE1	2.06	0.63
1:h:277:ARG:HH21	1:h:344:VAL:CG1	2.09	0.63
1:h:342:LYS:HZ2	1:i:343:ALA:HB1	1.62	0.63
1:i:254:ILE:HA	1:i:395:GLU:HB3	1.81	0.63
1:j:290:SER:O	1:k:284:GLU:HG2	1.99	0.63
1:a:284:GLU:CD	1:l:290:SER:HA	2.24	0.62
1:a:299:LEU:HD13	1:l:325:GLU:N	2.14	0.62
1:a:309:ARG:HH11	1:a:309:ARG:CG	2.12	0.62
1:a:402:ARG:HH11	1:a:402:ARG:CG	2.12	0.62
1:a:442:LEU:CD2	1:a:476:ILE:CD1	2.70	0.62
1:c:28:GLU:OE1	1:c:29:THR:N	2.32	0.62
1:c:83:TRP:HD1	1:c:118:MET:CE	2.06	0.62
1:c:301:ASN:HB3	1:c:326:ASP:OD2	1.99	0.62
1:d:170:ARG:CD	1:d:177:LEU:CD1	2.65	0.62
1:e:126:TYR:CZ	1:e:158:MET:CE	2.61	0.62
1:e:137:LEU:HD11	1:e:256:MET:SD	2.36	0.62
1:g:101:ASP:OD1	1:g:101:ASP:N	2.31	0.62
1:g:142:ASN:HA	1:g:166:TYR:CZ	2.33	0.62
1:h:442:LEU:CD2	1:h:476:ILE:CD1	2.70	0.62
1:i:39:ILE:HD12	1:i:39:ILE:O	1.98	0.62
1:k:66:LEU:HD23	1:k:66:LEU:C	2.24	0.62
1:k:142:ASN:HA	1:k:166:TYR:CZ	2.33	0.62
1:k:325:GLU:N	1:l:299:LEU:HD13	2.14	0.62
1:l:28:GLU:OE1	1:l:29:THR:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:83:TRP:HD1	1:a:118:MET:CE	2.06	0.62
1:a:132:GLU:OE1	1:b:257:VAL:O	2.17	0.62
1:a:278:SER:HB2	1:a:348:ILE:CG2	2.27	0.62
1:a:284:GLU:HG2	1:l:290:SER:O	1.98	0.62
1:b:126:TYR:CZ	1:b:158:MET:CE	2.61	0.62
1:d:406:LYS:HA	1:d:406:LYS:HZ2	1.65	0.62
1:e:277:ARG:CD	1:e:348:ILE:CG1	2.54	0.62
1:e:331:GLN:HE21	1:f:335:GLN:HB3	1.64	0.62
1:e:480:GLY:C	1:f:465:MET:CG	2.72	0.62
1:h:476:ILE:HG13	1:i:469:ARG:HH12	1.64	0.62
1:i:426:ILE:O	1:i:426:ILE:HG22	1.97	0.62
1:j:254:ILE:CG1	1:j:395:GLU:HB3	2.24	0.62
1:j:254:ILE:HA	1:j:395:GLU:HB3	1.80	0.62
1:j:309:ARG:HH11	1:j:309:ARG:CG	2.12	0.62
1:j:325:GLU:N	1:k:299:LEU:HD13	2.15	0.62
1:k:132:GLU:OE1	1:l:257:VAL:O	2.17	0.62
1:k:301:ASN:HB3	1:k:326:ASP:OD2	1.99	0.62
1:l:309:ARG:HH11	1:l:309:ARG:CG	2.12	0.62
1:a:397:GLN:CG	1:a:426:ILE:CG2	2.70	0.62
1:a:457:ASP:OD1	1:a:457:ASP:N	2.26	0.62
1:b:83:TRP:HD1	1:b:118:MET:CE	2.06	0.62
1:b:300:VAL:CA	1:b:327:ILE:CG2	2.22	0.62
1:b:309:ARG:HH11	1:b:309:ARG:CG	2.12	0.62
1:c:66:LEU:HD23	1:c:66:LEU:C	2.24	0.62
1:d:402:ARG:HH11	1:d:402:ARG:CG	2.12	0.62
1:f:142:ASN:HA	1:f:166:TYR:CZ	2.33	0.62
1:g:254:ILE:HA	1:g:395:GLU:HB3	1.81	0.62
1:i:68:ASN:HD22	1:i:358:LEU:HD22	1.54	0.62
1:i:254:ILE:CG1	1:i:395:GLU:HB3	2.24	0.62
1:i:290:SER:O	1:j:284:GLU:HG2	2.00	0.62
1:l:66:LEU:C	1:l:66:LEU:HD23	2.24	0.62
1:l:80:MET:CG	1:l:127:ARG:CZ	2.77	0.62
1:a:68:ASN:ND2	1:a:358:LEU:HA	2.12	0.62
1:b:227:LEU:HD22	1:b:241:ASP:HB2	1.82	0.62
1:b:293:SER:OG	1:c:284:GLU:OE2	2.17	0.62
1:c:309:ARG:HH11	1:c:309:ARG:CG	2.12	0.62
1:d:28:GLU:OE1	1:d:29:THR:N	2.32	0.62
1:d:80:MET:CG	1:d:127:ARG:CZ	2.77	0.62
1:d:181:THR:OG1	1:d:215:THR:OG1	1.92	0.62
1:f:254:ILE:HA	1:f:395:GLU:HB3	1.81	0.62
1:f:398:LEU:HD12	1:f:402:ARG:HH21	0.57	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:24:ARG:HG3	1:g:24:ARG:O	2.00	0.62
1:g:132:GLU:OE1	1:h:257:VAL:O	2.17	0.62
1:g:254:ILE:HD13	1:g:396:LEU:CD2	2.29	0.62
1:h:17:TYR:CD2	1:h:182:ARG:CD	2.81	0.62
1:h:142:ASN:HA	1:h:166:TYR:CZ	2.33	0.62
1:h:144:LEU:HB2	1:h:158:MET:SD	2.40	0.62
1:h:301:ASN:HB3	1:h:326:ASP:OD2	1.99	0.62
1:i:170:ARG:CD	1:i:177:LEU:CD1	2.66	0.62
1:j:142:ASN:HA	1:j:166:TYR:CZ	2.33	0.62
1:j:370:THR:HG23	1:j:371:ALA:N	2.13	0.62
1:k:17:TYR:CD1	1:k:167:VAL:CG2	2.81	0.62
1:k:147:LEU:HD22	1:k:147:LEU:N	2.06	0.62
1:k:309:ARG:HH11	1:k:309:ARG:CG	2.13	0.62
1:l:144:LEU:HB2	1:l:158:MET:SD	2.40	0.62
1:l:301:ASN:HB3	1:l:326:ASP:OD2	1.99	0.62
1:c:254:ILE:HA	1:c:395:GLU:HB3	1.81	0.62
1:c:293:SER:OG	1:d:284:GLU:OE2	2.16	0.62
1:e:28:GLU:OE1	1:e:29:THR:N	2.32	0.62
1:e:132:GLU:OE1	1:f:257:VAL:O	2.16	0.62
1:f:66:LEU:HD23	1:f:66:LEU:C	2.24	0.62
1:g:144:LEU:HB2	1:g:158:MET:SD	2.40	0.62
1:h:293:SER:OG	1:i:288:LYS:NZ	2.33	0.62
1:i:20:LEU:HB3	1:i:167:VAL:HG11	0.68	0.62
1:i:282:LEU:CD2	1:j:277:ARG:CZ	2.76	0.62
1:i:293:SER:OG	1:j:284:GLU:OE2	2.16	0.62
1:i:309:ARG:HH11	1:i:309:ARG:CG	2.12	0.62
1:k:17:TYR:CD2	1:k:182:ARG:CD	2.81	0.62
1:k:170:ARG:CD	1:k:177:LEU:CD1	2.65	0.62
1:k:254:ILE:CG1	1:k:395:GLU:HB3	2.24	0.62
1:k:289:MET:O	1:l:284:GLU:OE2	2.16	0.62
1:l:254:ILE:CG1	1:l:395:GLU:HB3	2.24	0.62
1:l:278:SER:HB2	1:l:348:ILE:CG2	2.27	0.62
1:a:144:LEU:HB2	1:a:158:MET:SD	2.40	0.62
1:a:254:ILE:HA	1:a:395:GLU:HB3	1.80	0.62
1:a:467:LYS:HD3	1:b:461:ILE:HD11	1.82	0.62
1:b:301:ASN:HB3	1:b:326:ASP:OD2	1.99	0.62
1:b:397:GLN:CB	1:b:426:ILE:CG1	2.72	0.62
1:b:398:LEU:HD12	1:b:402:ARG:HH21	0.57	0.62
1:c:14:LYS:HZ2	1:c:19:ARG:HE	1.45	0.62
1:e:342:LYS:HZ2	1:f:343:ALA:HB1	1.63	0.62
1:f:20:LEU:HB3	1:f:167:VAL:HG11	0.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:132:GLU:OE1	1:g:257:VAL:O	2.17	0.62
1:g:290:SER:O	1:h:284:GLU:HG2	1.98	0.62
1:h:66:LEU:HD23	1:h:66:LEU:C	2.24	0.62
1:h:293:SER:O	1:i:288:LYS:CG	2.47	0.62
1:i:28:GLU:OE1	1:i:29:THR:N	2.32	0.62
1:i:397:GLN:CG	1:i:426:ILE:CG2	2.69	0.62
1:i:402:ARG:HH11	1:i:402:ARG:CG	2.12	0.62
1:j:28:GLU:OE1	1:j:29:THR:N	2.32	0.62
1:k:144:LEU:HB2	1:k:158:MET:SD	2.40	0.62
1:k:293:SER:O	1:l:288:LYS:CG	2.47	0.62
1:l:142:ASN:HA	1:l:166:TYR:CZ	2.33	0.62
1:a:181:THR:HG1	1:a:215:THR:HG1	0.62	0.62
1:a:227:LEU:HD22	1:a:241:ASP:HB2	1.82	0.62
1:b:254:ILE:HA	1:b:395:GLU:HB3	1.81	0.62
1:c:370:THR:HG23	1:c:372:GLU:OE2	2.00	0.62
1:d:101:ASP:OD1	1:d:101:ASP:N	2.31	0.62
1:d:278:SER:HB2	1:d:348:ILE:CG2	2.27	0.62
1:d:397:GLN:CG	1:d:426:ILE:CG2	2.69	0.62
1:f:301:ASN:HB3	1:f:326:ASP:OD2	1.99	0.62
1:h:132:GLU:OE1	1:i:257:VAL:O	2.16	0.62
1:k:446:VAL:CG2	1:l:452:LEU:HD23	2.28	0.62
1:a:14:LYS:HZ2	1:a:19:ARG:HE	1.45	0.62
1:a:134:LEU:HD13	1:a:134:LEU:C	2.25	0.62
1:a:282:LEU:CD2	1:b:277:ARG:CZ	2.76	0.62
1:a:449:TRP:HB2	1:b:455:MET:HE1	1.79	0.62
1:b:144:LEU:HB2	1:b:158:MET:SD	2.40	0.62
1:b:250:PRO:HB2	1:b:251:TYR:HB3	1.82	0.62
1:b:278:SER:HB2	1:b:348:ILE:CG2	2.27	0.62
1:b:320:VAL:HG12	1:c:297:ILE:CG2	2.03	0.62
1:d:301:ASN:HB3	1:d:326:ASP:OD2	1.99	0.62
1:e:489:GLN:O	1:e:490:GLN:C	2.43	0.62
1:f:282:LEU:CD2	1:g:277:ARG:CZ	2.77	0.62
1:g:227:LEU:HD22	1:g:241:ASP:HB2	1.82	0.62
1:h:309:ARG:HH11	1:h:309:ARG:CG	2.12	0.62
1:i:144:LEU:HB2	1:i:158:MET:SD	2.40	0.62
1:j:144:LEU:HB2	1:j:158:MET:SD	2.40	0.62
1:k:20:LEU:CB	1:k:167:VAL:CG1	2.41	0.62
1:k:28:GLU:OE1	1:k:29:THR:N	2.32	0.62
1:l:227:LEU:HD22	1:l:241:ASP:HB2	1.82	0.62
1:a:80:MET:CG	1:a:127:ARG:CZ	2.77	0.62
1:a:258:ARG:HG3	1:a:258:ARG:NH1	1.95	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:288:LYS:CG	1:l:293:SER:O	2.48	0.62
1:b:80:MET:CG	1:b:127:ARG:CZ	2.77	0.62
1:b:296:VAL:HG11	1:c:332:LEU:HD11	1.82	0.62
1:d:254:ILE:HA	1:d:395:GLU:HB3	1.81	0.62
1:d:277:ARG:HH21	1:d:344:VAL:CG1	2.10	0.62
1:d:292:ILE:HD12	1:e:288:LYS:HZ2	1.62	0.62
1:d:309:ARG:HH11	1:d:309:ARG:CG	2.12	0.62
1:f:144:LEU:HB2	1:f:158:MET:SD	2.40	0.62
1:g:20:LEU:HB3	1:g:167:VAL:HG11	0.68	0.62
1:g:80:MET:CG	1:g:127:ARG:CZ	2.77	0.62
1:h:28:GLU:OE1	1:h:29:THR:N	2.32	0.62
1:h:143:VAL:N	1:h:166:TYR:CE2	2.65	0.62
1:i:140:ALA:CB	1:i:267:SER:O	2.48	0.62
1:i:142:ASN:HA	1:i:166:TYR:CZ	2.33	0.62
1:i:334:LYS:H	1:i:334:LYS:CD	2.09	0.62
1:i:359:ASN:OD1	1:j:380:GLU:OE1	2.06	0.62
1:j:426:ILE:CG2	1:j:426:ILE:O	2.48	0.62
1:k:254:ILE:HA	1:k:395:GLU:HB3	1.81	0.62
1:k:342:LYS:HZ2	1:l:343:ALA:HB1	1.63	0.62
1:k:359:ASN:ND2	1:l:380:GLU:CB	2.42	0.62
1:l:134:LEU:HD13	1:l:134:LEU:C	2.25	0.62
1:a:17:TYR:CD2	1:a:182:ARG:CD	2.81	0.62
1:b:442:LEU:CD2	1:b:476:ILE:CD1	2.70	0.62
1:c:426:ILE:CG2	1:c:426:ILE:O	2.48	0.62
1:c:457:ASP:OD1	1:c:457:ASP:N	2.26	0.62
1:d:134:LEU:HD13	1:d:134:LEU:C	2.25	0.62
1:d:282:LEU:HD13	1:d:282:LEU:C	2.25	0.62
1:d:442:LEU:CD2	1:d:476:ILE:CD1	2.70	0.62
1:e:134:LEU:HD13	1:e:134:LEU:C	2.25	0.62
1:e:292:ILE:HD13	1:e:335:GLN:NE2	2.01	0.62
1:g:398:LEU:HD12	1:g:402:ARG:HH21	0.58	0.62
1:g:480:GLY:C	1:h:465:MET:CG	2.73	0.62
1:h:481:ILE:CD1	1:i:466:ILE:HD13	2.14	0.62
1:i:66:LEU:HD23	1:i:66:LEU:C	2.24	0.62
1:i:143:VAL:HG22	1:i:161:TYR:HB2	1.82	0.62
1:i:370:THR:HG23	1:i:372:GLU:OE2	2.00	0.62
1:k:426:ILE:CG2	1:k:426:ILE:O	2.48	0.62
1:l:370:THR:HG23	1:l:372:GLU:OE2	2.00	0.62
1:a:254:ILE:CG1	1:a:395:GLU:HB3	2.24	0.61
1:a:301:ASN:HB3	1:a:326:ASP:OD2	1.99	0.61
1:b:426:ILE:CG2	1:b:426:ILE:O	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:134:LEU:HD13	1:c:134:LEU:C	2.25	0.61
1:c:144:LEU:HB2	1:c:158:MET:SD	2.40	0.61
1:d:132:GLU:OE1	1:e:257:VAL:O	2.18	0.61
1:d:426:ILE:CG2	1:d:426:ILE:O	2.48	0.61
1:e:408:LEU:O	1:e:414:ILE:HB	2.00	0.61
1:f:134:LEU:HD13	1:f:134:LEU:C	2.25	0.61
1:f:356:PHE:O	1:f:358:LEU:CD2	2.48	0.61
1:f:489:GLN:O	1:f:490:GLN:C	2.43	0.61
1:h:480:GLY:C	1:i:465:MET:CG	2.73	0.61
1:h:489:GLN:O	1:h:490:GLN:C	2.43	0.61
1:i:356:PHE:O	1:i:358:LEU:CD2	2.48	0.61
1:i:370:THR:HG23	1:i:371:ALA:N	2.13	0.61
1:j:143:VAL:HG22	1:j:161:TYR:HB2	1.82	0.61
1:j:254:ILE:HD13	1:j:396:LEU:CD2	2.29	0.61
1:j:467:LYS:HD3	1:k:461:ILE:HD11	1.82	0.61
1:k:134:LEU:HD13	1:k:134:LEU:C	2.25	0.61
1:k:143:VAL:HG22	1:k:161:TYR:HB2	1.82	0.61
1:k:181:THR:HG1	1:k:215:THR:HG1	0.62	0.61
1:k:480:GLY:C	1:l:465:MET:CG	2.73	0.61
1:l:254:ILE:CD1	1:l:396:LEU:HD22	2.22	0.61
1:a:277:ARG:HH21	1:a:344:VAL:CG1	2.10	0.61
1:a:482:LEU:HD23	1:b:461:ILE:HG23	1.82	0.61
1:b:368:ARG:O	1:c:373:GLU:OE2	2.18	0.61
1:c:250:PRO:HB2	1:c:251:TYR:HB3	1.82	0.61
1:c:282:LEU:HD13	1:c:282:LEU:C	2.25	0.61
1:d:144:LEU:HB2	1:d:158:MET:SD	2.40	0.61
1:e:66:LEU:HD23	1:e:66:LEU:C	2.24	0.61
1:e:80:MET:CG	1:e:127:ARG:CZ	2.77	0.61
1:e:254:ILE:HA	1:e:395:GLU:HB3	1.81	0.61
1:e:278:SER:HB2	1:e:348:ILE:CG2	2.27	0.61
1:e:282:LEU:HD13	1:e:282:LEU:C	2.25	0.61
1:e:301:ASN:HB3	1:e:326:ASP:OD2	1.99	0.61
1:f:293:SER:OG	1:g:284:GLU:OE2	2.17	0.61
1:f:309:ARG:HH11	1:f:309:ARG:CG	2.12	0.61
1:g:331:GLN:HE21	1:h:335:GLN:HB3	1.65	0.61
1:g:397:GLN:CB	1:g:426:ILE:CG1	2.72	0.61
1:g:450:ALA:N	1:h:455:MET:HE1	2.06	0.61
1:g:453:ALA:HB3	1:g:454:PRO:HD3	1.82	0.61
1:j:132:GLU:OE1	1:k:257:VAL:O	2.18	0.61
1:j:140:ALA:CB	1:j:267:SER:O	2.48	0.61
1:j:453:ALA:HB3	1:j:454:PRO:HD3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:14:LYS:HZ2	1:k:19:ARG:HE	1.46	0.61
1:k:278:SER:HB2	1:k:348:ILE:CG2	2.27	0.61
1:a:290:SER:O	1:b:284:GLU:HG2	2.00	0.61
1:b:282:LEU:HD13	1:b:282:LEU:C	2.25	0.61
1:d:338:PHE:HA	1:e:340:VAL:HG22	1.82	0.61
1:d:408:LEU:O	1:d:414:ILE:HB	2.01	0.61
1:e:143:VAL:N	1:e:166:TYR:CE2	2.65	0.61
1:f:101:ASP:OD1	1:f:101:ASP:N	2.31	0.61
1:f:227:LEU:HD22	1:f:241:ASP:HB2	1.82	0.61
1:f:277:ARG:CD	1:f:348:ILE:CG1	2.54	0.61
1:f:408:LEU:O	1:f:414:ILE:HB	2.00	0.61
1:f:426:ILE:CG2	1:f:426:ILE:O	2.48	0.61
1:g:134:LEU:HD13	1:g:134:LEU:C	2.25	0.61
1:g:301:ASN:HB3	1:g:326:ASP:OD2	1.99	0.61
1:g:426:ILE:CG2	1:g:426:ILE:O	2.48	0.61
1:h:134:LEU:HD13	1:h:134:LEU:C	2.25	0.61
1:h:227:LEU:HD22	1:h:241:ASP:HB2	1.82	0.61
1:h:254:ILE:CG1	1:h:395:GLU:HB3	2.24	0.61
1:i:132:GLU:OE1	1:j:257:VAL:O	2.16	0.61
1:i:325:GLU:N	1:j:299:LEU:HD13	2.15	0.61
1:i:426:ILE:CG2	1:i:426:ILE:O	2.48	0.61
1:i:467:LYS:HD3	1:j:461:ILE:HD11	1.82	0.61
1:j:301:ASN:HB3	1:j:326:ASP:OD2	1.99	0.61
1:k:24:ARG:O	1:k:24:ARG:HG3	2.00	0.61
1:l:143:VAL:HG22	1:l:161:TYR:HB2	1.82	0.61
1:a:143:VAL:N	1:a:166:TYR:CE2	2.65	0.61
1:a:248:ALA:CB	1:a:406:LYS:CG	2.28	0.61
1:b:134:LEU:HD13	1:b:134:LEU:C	2.25	0.61
1:b:342:LYS:HZ2	1:c:343:ALA:HB1	1.62	0.61
1:c:227:LEU:HD22	1:c:241:ASP:HB2	1.82	0.61
1:e:309:ARG:HH11	1:e:309:ARG:CG	2.13	0.61
1:e:453:ALA:HB3	1:e:454:PRO:HD3	1.83	0.61
1:g:309:ARG:HH11	1:g:309:ARG:CG	2.13	0.61
1:h:24:ARG:HG3	1:h:24:ARG:O	2.00	0.61
1:h:143:VAL:HG22	1:h:161:TYR:HB2	1.82	0.61
1:h:453:ALA:HB3	1:h:454:PRO:HD3	1.82	0.61
1:i:17:TYR:CD2	1:i:182:ARG:CD	2.81	0.61
1:i:483:LEU:N	1:j:460:ASP:O	2.33	0.61
1:i:489:GLN:O	1:i:490:GLN:C	2.43	0.61
1:j:293:SER:O	1:k:288:LYS:CG	2.47	0.61
1:l:147:LEU:HD22	1:l:147:LEU:N	2.06	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:250:PRO:HB2	1:l:251:TYR:HB3	1.82	0.61
1:l:282:LEU:HD13	1:l:282:LEU:C	2.25	0.61
1:l:369:VAL:C	1:l:370:THR:HG22	2.26	0.61
1:a:101:ASP:OD1	1:a:101:ASP:N	2.31	0.61
1:a:250:PRO:HB2	1:a:251:TYR:HB3	1.82	0.61
1:a:418:PRO:HA	1:a:419:LYS:CE	2.30	0.61
1:a:483:LEU:N	1:b:460:ASP:O	2.32	0.61
1:b:14:LYS:NZ	1:b:19:ARG:NE	2.49	0.61
1:b:480:GLY:C	1:c:465:MET:CG	2.74	0.61
1:c:370:THR:HG23	1:c:371:ALA:N	2.14	0.61
1:c:408:LEU:O	1:c:414:ILE:HB	2.01	0.61
1:d:450:ALA:N	1:e:455:MET:HE1	2.12	0.61
1:e:144:LEU:HB2	1:e:158:MET:SD	2.40	0.61
1:e:442:LEU:HD21	1:e:476:ILE:HG21	1.77	0.61
1:f:80:MET:CG	1:f:127:ARG:CZ	2.77	0.61
1:f:126:TYR:CE1	1:f:158:MET:CB	2.74	0.61
1:f:282:LEU:HD13	1:f:282:LEU:C	2.25	0.61
1:g:300:VAL:CA	1:g:327:ILE:CG2	2.22	0.61
1:g:354:PHE:O	1:g:357:MET:HE3	2.00	0.61
1:g:408:LEU:O	1:g:414:ILE:HB	2.01	0.61
1:h:290:SER:O	1:i:284:GLU:HG3	2.00	0.61
1:h:334:LYS:H	1:h:334:LYS:CD	2.09	0.61
1:a:282:LEU:HD13	1:a:282:LEU:C	2.25	0.61
1:a:426:ILE:CG2	1:a:426:ILE:O	2.48	0.61
1:a:461:ILE:HG23	1:l:482:LEU:HD23	1.83	0.61
1:b:290:SER:O	1:c:284:GLU:HG3	2.00	0.61
1:b:408:LEU:O	1:b:414:ILE:HB	2.01	0.61
1:c:14:LYS:NZ	1:c:19:ARG:NE	2.49	0.61
1:d:140:ALA:CB	1:d:267:SER:O	2.48	0.61
1:d:293:SER:OG	1:e:284:GLU:OE2	2.18	0.61
1:d:453:ALA:HB3	1:d:454:PRO:HD3	1.83	0.61
1:e:402:ARG:HH11	1:e:402:ARG:CG	2.11	0.61
1:e:426:ILE:CG2	1:e:426:ILE:O	2.48	0.61
1:e:439:LEU:CD2	1:f:473:ALA:HB1	2.30	0.61
1:f:370:THR:HG23	1:f:372:GLU:OE2	2.01	0.61
1:h:359:ASN:ND2	1:i:380:GLU:CB	2.42	0.61
1:i:250:PRO:HB2	1:i:251:TYR:HB3	1.82	0.61
1:j:293:SER:OG	1:k:284:GLU:OE2	2.18	0.61
1:k:227:LEU:HD22	1:k:241:ASP:HB2	1.82	0.61
1:k:453:ALA:HB3	1:k:454:PRO:HD3	1.82	0.61
1:k:482:LEU:HD23	1:l:461:ILE:HG23	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:24:ARG:HG3	1:l:24:ARG:O	2.00	0.61
1:l:489:GLN:O	1:l:490:GLN:C	2.43	0.61
1:a:14:LYS:NZ	1:a:19:ARG:NE	2.49	0.61
1:a:369:VAL:O	1:a:369:VAL:HG12	2.01	0.61
1:a:398:LEU:HD12	1:a:402:ARG:HH21	0.57	0.61
1:b:254:ILE:CG1	1:b:395:GLU:HB3	2.24	0.61
1:c:68:ASN:ND2	1:c:358:LEU:CD2	2.57	0.61
1:e:20:LEU:HB3	1:e:167:VAL:HG11	0.68	0.61
1:e:140:ALA:CB	1:e:267:SER:O	2.48	0.61
1:f:278:SER:HB2	1:f:348:ILE:CG2	2.27	0.61
1:g:282:LEU:HD13	1:g:282:LEU:C	2.25	0.61
1:h:250:PRO:HB2	1:h:251:TYR:HB3	1.82	0.61
1:h:426:ILE:CG2	1:h:426:ILE:O	2.48	0.61
1:i:256:MET:HG3	1:i:256:MET:O	2.01	0.61
1:j:256:MET:HG3	1:j:256:MET:O	2.01	0.61
1:k:282:LEU:HD13	1:k:282:LEU:C	2.26	0.61
1:k:476:ILE:HG13	1:l:469:ARG:HH12	1.64	0.61
1:k:489:GLN:O	1:k:490:GLN:C	2.43	0.61
1:l:14:LYS:HZ2	1:l:19:ARG:HE	1.46	0.61
1:l:426:ILE:CG2	1:l:426:ILE:O	2.48	0.61
1:a:24:ARG:HG3	1:a:24:ARG:O	2.00	0.61
1:a:408:LEU:O	1:a:414:ILE:HB	2.01	0.61
1:b:489:GLN:O	1:b:490:GLN:C	2.43	0.61
1:d:250:PRO:HB2	1:d:251:TYR:HB3	1.82	0.61
1:d:290:SER:HA	1:e:284:GLU:CD	2.24	0.61
1:d:293:SER:O	1:e:288:LYS:CG	2.48	0.61
1:e:227:LEU:HD22	1:e:241:ASP:HB2	1.82	0.61
1:g:290:SER:HA	1:h:284:GLU:CD	2.24	0.61
1:h:101:ASP:N	1:h:101:ASP:OD1	2.31	0.61
1:h:482:LEU:HD23	1:i:461:ILE:HG23	1.83	0.61
1:i:134:LEU:HD13	1:i:134:LEU:C	2.25	0.61
1:i:277:ARG:HH21	1:i:344:VAL:CG1	2.09	0.61
1:i:482:LEU:HD23	1:j:461:ILE:HG23	1.83	0.61
1:j:20:LEU:HB3	1:j:167:VAL:HG11	0.68	0.61
1:j:126:TYR:HE1	1:j:158:MET:SD	2.24	0.61
1:k:140:ALA:CB	1:k:267:SER:O	2.48	0.61
1:a:267:SER:HB2	1:a:268:TYR:HB2	1.83	0.61
1:a:368:ARG:HG3	1:a:369:VAL:HG23	1.82	0.61
1:b:267:SER:HB2	1:b:268:TYR:HB2	1.83	0.61
1:b:282:LEU:HD21	1:c:277:ARG:NH2	2.16	0.61
1:b:453:ALA:HB3	1:b:454:PRO:HD3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:80:MET:CG	1:c:127:ARG:CZ	2.77	0.61
1:c:356:PHE:O	1:c:358:LEU:CD2	2.48	0.61
1:d:14:LYS:NZ	1:d:19:ARG:NE	2.49	0.61
1:e:250:PRO:HB2	1:e:251:TYR:HB3	1.82	0.61
1:g:278:SER:HB2	1:g:348:ILE:CG2	2.27	0.61
1:g:476:ILE:HG13	1:h:469:ARG:HH12	1.65	0.61
1:h:370:THR:OG1	1:i:373:GLU:OE1	2.10	0.61
1:j:282:LEU:HD13	1:j:282:LEU:C	2.25	0.61
1:k:250:PRO:HB2	1:k:251:TYR:HB3	1.82	0.61
1:a:256:MET:HG3	1:a:256:MET:O	2.00	0.61
1:c:267:SER:HB2	1:c:268:TYR:HB2	1.83	0.61
1:c:442:LEU:CD2	1:c:476:ILE:CD1	2.70	0.61
1:h:282:LEU:HD21	1:i:277:ARG:NH2	2.16	0.61
1:h:398:LEU:HD12	1:h:402:ARG:HH21	0.58	0.61
1:h:408:LEU:O	1:h:414:ILE:HB	2.01	0.61
1:h:446:VAL:CG2	1:i:452:LEU:HD23	2.29	0.61
1:h:450:ALA:N	1:i:455:MET:HE1	2.05	0.61
1:i:227:LEU:HD22	1:i:241:ASP:HB2	1.82	0.61
1:i:301:ASN:HB3	1:i:326:ASP:OD2	1.99	0.61
1:j:227:LEU:HD22	1:j:241:ASP:HB2	1.82	0.61
1:l:14:LYS:NZ	1:l:19:ARG:NE	2.49	0.61
1:l:254:ILE:HA	1:l:395:GLU:HB3	1.81	0.61
1:l:397:GLN:CB	1:l:426:ILE:CG1	2.72	0.61
1:a:143:VAL:HG22	1:a:161:TYR:HB2	1.82	0.60
1:a:453:ALA:HB3	1:a:454:PRO:HD3	1.83	0.60
1:b:24:ARG:O	1:b:24:ARG:HG3	2.00	0.60
1:e:80:MET:HG2	1:e:80:MET:O	2.01	0.60
1:g:334:LYS:H	1:g:334:LYS:CD	2.09	0.60
1:g:482:LEU:HD23	1:h:461:ILE:HG23	1.83	0.60
1:j:250:PRO:HB2	1:j:251:TYR:HB3	1.82	0.60
1:j:296:VAL:HG11	1:k:332:LEU:HD11	1.83	0.60
1:a:126:TYR:HE1	1:a:158:MET:SD	2.25	0.60
1:c:126:TYR:HE1	1:c:158:MET:SD	2.24	0.60
1:c:480:GLY:C	1:d:465:MET:CG	2.74	0.60
1:c:482:LEU:HD23	1:d:461:ILE:HG23	1.82	0.60
1:d:126:TYR:HE1	1:d:158:MET:SD	2.24	0.60
1:d:256:MET:HG3	1:d:256:MET:O	2.00	0.60
1:e:256:MET:O	1:e:256:MET:HG3	2.00	0.60
1:f:140:ALA:CB	1:f:267:SER:O	2.48	0.60
1:f:267:SER:HB2	1:f:268:TYR:HB2	1.83	0.60
1:g:250:PRO:HB2	1:g:251:TYR:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:293:SER:O	1:h:288:LYS:CG	2.48	0.60
1:g:439:LEU:CD2	1:h:473:ALA:HB1	2.31	0.60
1:h:126:TYR:CE1	1:h:158:MET:CB	2.74	0.60
1:h:247:GLU:H	1:h:247:GLU:CD	2.09	0.60
1:h:278:SER:HB2	1:h:348:ILE:CG2	2.27	0.60
1:h:282:LEU:HD13	1:h:282:LEU:C	2.25	0.60
1:i:282:LEU:HD13	1:i:282:LEU:C	2.25	0.60
1:k:20:LEU:HB3	1:k:167:VAL:HG11	0.68	0.60
1:k:369:VAL:C	1:k:370:THR:HG22	2.26	0.60
1:l:398:LEU:HD12	1:l:402:ARG:HH21	0.57	0.60
1:l:408:LEU:O	1:l:414:ILE:HB	2.01	0.60
1:a:16:VAL:HG13	1:a:18:GLU:H	1.67	0.60
1:a:455:MET:HE1	1:l:449:TRP:HB2	1.81	0.60
1:a:465:MET:CG	1:l:480:GLY:C	2.74	0.60
1:b:42:LEU:C	1:b:162:ARG:HH22	2.10	0.60
1:b:132:GLU:OE1	1:c:257:VAL:O	2.17	0.60
1:c:80:MET:HG2	1:c:80:MET:O	2.02	0.60
1:d:80:MET:O	1:d:80:MET:HG2	2.01	0.60
1:d:143:VAL:HG22	1:d:161:TYR:HB2	1.83	0.60
1:d:267:SER:HB2	1:d:268:TYR:HB2	1.83	0.60
1:e:17:TYR:CD1	1:e:167:VAL:HG21	2.36	0.60
1:g:143:VAL:HG22	1:g:161:TYR:HB2	1.82	0.60
1:g:489:GLN:O	1:g:490:GLN:C	2.43	0.60
1:h:80:MET:HG2	1:h:80:MET:O	2.02	0.60
1:h:126:TYR:HE1	1:h:158:MET:SD	2.24	0.60
1:h:439:LEU:CD2	1:i:473:ALA:HB1	2.31	0.60
1:i:408:LEU:O	1:i:414:ILE:HB	2.01	0.60
1:k:14:LYS:NZ	1:k:19:ARG:NE	2.49	0.60
1:k:254:ILE:HG23	1:k:395:GLU:HB2	1.83	0.60
1:k:408:LEU:O	1:k:414:ILE:HB	2.01	0.60
1:l:370:THR:HG23	1:l:371:ALA:N	2.15	0.60
1:a:17:TYR:CD1	1:a:167:VAL:HG21	2.36	0.60
1:a:284:GLU:HG3	1:l:290:SER:O	2.01	0.60
1:b:146:TYR:HH	1:b:251:TYR:HE2	1.48	0.60
1:b:476:ILE:HG13	1:c:469:ARG:HH12	1.66	0.60
1:c:143:VAL:HG22	1:c:161:TYR:HB2	1.82	0.60
1:c:247:GLU:H	1:c:247:GLU:CD	2.10	0.60
1:d:227:LEU:HD22	1:d:241:ASP:HB2	1.82	0.60
1:d:247:GLU:CD	1:d:247:GLU:H	2.09	0.60
1:e:66:LEU:HD21	1:e:135:LYS:CD	2.32	0.60
1:e:170:ARG:CD	1:e:177:LEU:CD1	2.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:247:GLU:H	1:e:247:GLU:CD	2.10	0.60
1:f:254:ILE:CD1	1:f:396:LEU:HD22	2.22	0.60
1:g:254:ILE:CG1	1:g:395:GLU:HB3	2.24	0.60
1:g:267:SER:HB2	1:g:268:TYR:HB2	1.83	0.60
1:g:282:LEU:HD21	1:h:277:ARG:NH2	2.16	0.60
1:h:368:ARG:C	1:h:370:THR:CA	2.74	0.60
1:i:226:TYR:N	1:i:244:TYR:O	2.31	0.60
1:i:248:ALA:CB	1:i:406:LYS:CG	2.28	0.60
1:j:86:LEU:CD1	1:j:422:VAL:CG1	2.80	0.60
1:j:247:GLU:CD	1:j:247:GLU:H	2.10	0.60
1:k:126:TYR:HE1	1:k:158:MET:SD	2.24	0.60
1:l:267:SER:HB2	1:l:268:TYR:HB2	1.83	0.60
1:l:457:ASP:OD1	1:l:457:ASP:N	2.26	0.60
1:a:469:ARG:HH12	1:l:476:ILE:HG13	1.66	0.60
1:c:266:ARG:O	1:c:266:ARG:HD3	2.01	0.60
1:d:66:LEU:HD21	1:d:135:LYS:CD	2.32	0.60
1:d:266:ARG:O	1:d:266:ARG:HD3	2.01	0.60
1:e:267:SER:HB2	1:e:268:TYR:HB2	1.83	0.60
1:e:277:ARG:NH2	1:e:344:VAL:HG13	2.11	0.60
1:e:282:LEU:HD21	1:f:277:ARG:NH2	2.15	0.60
1:e:331:GLN:HE22	1:f:335:GLN:CA	2.11	0.60
1:f:17:TYR:CD1	1:f:167:VAL:HG21	2.36	0.60
1:f:66:LEU:HD21	1:f:135:LYS:CD	2.32	0.60
1:f:250:PRO:HB2	1:f:251:TYR:HB3	1.82	0.60
1:f:290:SER:O	1:g:284:GLU:HG2	2.01	0.60
1:g:293:SER:OG	1:h:288:LYS:NZ	2.33	0.60
1:h:17:TYR:CD1	1:h:167:VAL:HG21	2.36	0.60
1:h:370:THR:HG23	1:h:372:GLU:OE2	2.02	0.60
1:i:86:LEU:CD1	1:i:422:VAL:CG1	2.79	0.60
1:i:290:SER:HA	1:j:284:GLU:CD	2.24	0.60
1:j:134:LEU:HD13	1:j:134:LEU:C	2.25	0.60
1:j:392:LEU:HD12	1:j:392:LEU:O	2.02	0.60
1:j:489:GLN:O	1:j:490:GLN:C	2.43	0.60
1:k:42:LEU:C	1:k:162:ARG:HH22	2.10	0.60
1:k:256:MET:HG3	1:k:256:MET:O	2.00	0.60
1:l:17:TYR:CD1	1:l:167:VAL:HG21	2.36	0.60
1:l:126:TYR:HE1	1:l:158:MET:SD	2.24	0.60
1:b:372:GLU:CD	1:b:372:GLU:H	2.09	0.60
1:c:16:VAL:HG13	1:c:18:GLU:H	1.67	0.60
1:c:17:TYR:CD2	1:c:182:ARG:CD	2.81	0.60
1:d:143:VAL:N	1:d:166:TYR:CE2	2.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:425:THR:HA	1:d:426:ILE:HG13	1.84	0.60
1:e:14:LYS:NZ	1:e:19:ARG:NE	2.49	0.60
1:e:77:LEU:HD23	1:e:78:PHE:CG	2.37	0.60
1:e:143:VAL:HG22	1:e:161:TYR:HB2	1.83	0.60
1:f:126:TYR:HE1	1:f:158:MET:SD	2.24	0.60
1:f:325:GLU:N	1:g:299:LEU:HD13	2.16	0.60
1:g:247:GLU:CD	1:g:247:GLU:H	2.10	0.60
1:h:77:LEU:HD23	1:h:78:PHE:CG	2.37	0.60
1:i:24:ARG:O	1:i:24:ARG:HG3	2.00	0.60
1:i:42:LEU:C	1:i:162:ARG:HH22	2.10	0.60
1:i:80:MET:O	1:i:80:MET:HG2	2.02	0.60
1:i:147:LEU:HD22	1:i:147:LEU:N	2.06	0.60
1:j:226:TYR:N	1:j:244:TYR:O	2.31	0.60
1:j:408:LEU:O	1:j:414:ILE:HB	2.01	0.60
1:j:418:PRO:HA	1:j:419:LYS:CE	2.29	0.60
1:l:126:TYR:CZ	1:l:158:MET:CE	2.61	0.60
1:l:256:MET:HG3	1:l:256:MET:O	2.01	0.60
1:a:293:SER:O	1:b:288:LYS:CG	2.50	0.60
1:a:370:THR:O	1:a:373:GLU:N	2.35	0.60
1:a:439:LEU:HD13	1:a:439:LEU:C	2.27	0.60
1:a:489:GLN:O	1:a:490:GLN:C	2.43	0.60
1:b:439:LEU:CD2	1:c:473:ALA:HB1	2.31	0.60
1:c:24:ARG:O	1:c:24:ARG:HG3	2.00	0.60
1:c:68:ASN:HD22	1:c:358:LEU:HD22	1.54	0.60
1:c:418:PRO:HA	1:c:419:LYS:CE	2.29	0.60
1:d:86:LEU:CD1	1:d:422:VAL:CG1	2.79	0.60
1:d:282:LEU:CD2	1:e:277:ARG:CZ	2.78	0.60
1:d:397:GLN:CB	1:d:426:ILE:HG12	2.22	0.60
1:f:16:VAL:HG13	1:f:18:GLU:H	1.67	0.60
1:f:17:TYR:CD2	1:f:182:ARG:CD	2.81	0.60
1:f:126:TYR:CZ	1:f:158:MET:CE	2.61	0.60
1:f:293:SER:O	1:g:288:LYS:CG	2.49	0.60
1:f:334:LYS:H	1:f:334:LYS:CD	2.09	0.60
1:f:439:LEU:HD13	1:f:439:LEU:C	2.27	0.60
1:g:17:TYR:CD1	1:g:167:VAL:HG21	2.36	0.60
1:g:266:ARG:O	1:g:266:ARG:HD3	2.01	0.60
1:h:359:ASN:CG	1:i:380:GLU:CB	2.70	0.60
1:i:278:SER:HB2	1:i:348:ILE:CG2	2.27	0.60
1:j:17:TYR:CD1	1:j:167:VAL:HG21	2.36	0.60
1:j:170:ARG:CD	1:j:177:LEU:CD1	2.65	0.60
1:k:77:LEU:HD23	1:k:78:PHE:CG	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:247:GLU:H	1:k:247:GLU:CD	2.10	0.60
1:k:267:SER:HB2	1:k:268:TYR:HB2	1.83	0.60
1:l:16:VAL:HG13	1:l:18:GLU:H	1.67	0.60
1:l:77:LEU:HD23	1:l:78:PHE:CG	2.37	0.60
1:b:77:LEU:HD23	1:b:78:PHE:CG	2.37	0.60
1:b:126:TYR:HE1	1:b:158:MET:SD	2.24	0.60
1:b:140:ALA:CB	1:b:267:SER:O	2.48	0.60
1:b:392:LEU:HD12	1:b:392:LEU:O	2.02	0.60
1:b:393:SER:HB3	1:b:394:GLN:HE22	1.67	0.60
1:c:254:ILE:CG1	1:c:395:GLU:HB3	2.24	0.60
1:c:489:GLN:O	1:c:490:GLN:C	2.43	0.60
1:d:42:LEU:C	1:d:162:ARG:HH22	2.10	0.60
1:d:439:LEU:C	1:d:439:LEU:HD13	2.27	0.60
1:d:483:LEU:N	1:e:460:ASP:O	2.31	0.60
1:e:126:TYR:HE1	1:e:158:MET:SD	2.24	0.60
1:e:425:THR:HA	1:e:426:ILE:HG13	1.84	0.60
1:f:143:VAL:HG22	1:f:161:TYR:HB2	1.82	0.60
1:f:338:PHE:HA	1:g:340:VAL:HG22	1.81	0.60
1:g:80:MET:O	1:g:80:MET:HG2	2.02	0.60
1:h:256:MET:O	1:h:256:MET:HG3	2.01	0.60
1:h:392:LEU:HD12	1:h:392:LEU:O	2.02	0.60
1:i:398:LEU:CD2	1:i:426:ILE:HD12	2.31	0.60
1:i:453:ALA:HB3	1:i:454:PRO:HD3	1.83	0.60
1:j:254:ILE:HG23	1:j:395:GLU:HB2	1.84	0.60
1:j:278:SER:HB2	1:j:348:ILE:CG2	2.27	0.60
1:j:370:THR:HG23	1:j:372:GLU:OE2	2.02	0.60
1:k:16:VAL:HG13	1:k:18:GLU:H	1.67	0.60
1:k:449:TRP:HB2	1:l:455:MET:HE1	1.80	0.60
1:b:247:GLU:CD	1:b:247:GLU:H	2.10	0.60
1:b:256:MET:HG3	1:b:256:MET:O	2.01	0.60
1:b:266:ARG:O	1:b:266:ARG:HD3	2.01	0.60
1:b:277:ARG:NH2	1:b:344:VAL:HG13	2.11	0.60
1:c:392:LEU:HD12	1:c:392:LEU:O	2.02	0.60
1:c:453:ALA:HB3	1:c:454:PRO:HD3	1.82	0.60
1:d:77:LEU:CD2	1:d:78:PHE:CG	2.85	0.60
1:d:290:SER:O	1:e:284:GLU:HG2	2.02	0.60
1:d:397:GLN:CB	1:d:426:ILE:CG1	2.72	0.60
1:e:16:VAL:HG13	1:e:18:GLU:H	1.67	0.60
1:e:17:TYR:CD2	1:e:182:ARG:CD	2.81	0.60
1:e:42:LEU:C	1:e:162:ARG:HH22	2.10	0.60
1:e:77:LEU:CD2	1:e:78:PHE:CG	2.85	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:266:ARG:O	1:e:266:ARG:HD3	2.01	0.60
1:e:393:SER:HB3	1:e:394:GLN:HE22	1.67	0.60
1:f:14:LYS:NZ	1:f:19:ARG:NE	2.49	0.60
1:f:237:VAL:O	1:f:237:VAL:HG12	2.02	0.60
1:f:453:ALA:HB3	1:f:454:PRO:HD3	1.83	0.60
1:g:42:LEU:C	1:g:162:ARG:HH22	2.10	0.60
1:h:14:LYS:NZ	1:h:19:ARG:NE	2.49	0.60
1:i:77:LEU:HD23	1:i:78:PHE:CG	2.37	0.60
1:i:293:SER:O	1:j:288:LYS:CG	2.49	0.60
1:j:16:VAL:HG13	1:j:18:GLU:H	1.67	0.60
1:j:237:VAL:O	1:j:237:VAL:HG12	2.02	0.60
1:k:398:LEU:HD12	1:k:402:ARG:HH21	0.58	0.60
1:k:439:LEU:HD13	1:k:439:LEU:C	2.27	0.60
1:l:54:TYR:CD2	1:l:56:THR:CG2	2.85	0.60
1:l:358:LEU:N	1:l:358:LEU:HD22	2.15	0.60
1:l:392:LEU:HD12	1:l:392:LEU:O	2.02	0.60
1:a:66:LEU:HD21	1:a:135:LYS:CD	2.32	0.60
1:a:254:ILE:CD1	1:a:396:LEU:HD22	2.22	0.60
1:b:143:VAL:N	1:b:166:TYR:CE2	2.65	0.60
1:b:368:ARG:O	1:b:370:THR:HA	2.02	0.60
1:c:66:LEU:HD21	1:c:135:LYS:CD	2.32	0.60
1:c:77:LEU:HD23	1:c:78:PHE:CG	2.37	0.60
1:c:140:ALA:CB	1:c:267:SER:O	2.48	0.60
1:c:439:LEU:HD13	1:c:439:LEU:C	2.27	0.60
1:d:277:ARG:NH2	1:d:344:VAL:HG13	2.11	0.60
1:e:20:LEU:CB	1:e:167:VAL:CG1	2.41	0.60
1:f:77:LEU:HD23	1:f:78:PHE:CG	2.37	0.60
1:g:126:TYR:HE1	1:g:158:MET:SD	2.24	0.60
1:h:266:ARG:O	1:h:266:ARG:HD3	2.01	0.60
1:h:296:VAL:HG11	1:i:332:LEU:HD11	1.84	0.60
1:i:14:LYS:NZ	1:i:19:ARG:NE	2.49	0.60
1:i:54:TYR:CD2	1:i:56:THR:HG23	2.37	0.60
1:i:126:TYR:HE1	1:i:158:MET:SD	2.24	0.60
1:i:254:ILE:HG23	1:i:395:GLU:HB2	1.84	0.60
1:i:398:LEU:HD12	1:i:402:ARG:HH21	0.57	0.60
1:i:439:LEU:HD13	1:i:439:LEU:C	2.27	0.60
1:i:480:GLY:C	1:j:465:MET:CG	2.75	0.60
1:j:14:LYS:NZ	1:j:19:ARG:NE	2.49	0.60
1:j:80:MET:O	1:j:80:MET:HG2	2.01	0.60
1:j:101:ASP:N	1:j:101:ASP:OD1	2.31	0.60
1:j:290:SER:O	1:k:284:GLU:HG3	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:398:LEU:CD2	1:j:426:ILE:HD12	2.31	0.60
1:l:66:LEU:HD21	1:l:135:LYS:CD	2.32	0.60
1:l:86:LEU:CD1	1:l:422:VAL:CG1	2.79	0.60
1:l:140:ALA:CB	1:l:267:SER:O	2.48	0.60
1:a:247:GLU:CD	1:a:247:GLU:H	2.10	0.59
1:a:331:GLN:HE21	1:b:335:GLN:HB3	1.67	0.59
1:b:237:VAL:O	1:b:237:VAL:HG12	2.02	0.59
1:c:17:TYR:CD1	1:c:167:VAL:HG21	2.36	0.59
1:c:126:TYR:CE1	1:c:158:MET:CB	2.74	0.59
1:c:331:GLN:HE21	1:d:335:GLN:HB3	1.66	0.59
1:d:20:LEU:HB3	1:d:167:VAL:HG11	0.68	0.59
1:d:147:LEU:HD22	1:d:147:LEU:N	2.06	0.59
1:e:439:LEU:CD2	1:f:473:ALA:CB	2.80	0.59
1:f:77:LEU:CD2	1:f:78:PHE:CG	2.85	0.59
1:f:80:MET:HG2	1:f:80:MET:O	2.02	0.59
1:g:14:LYS:NZ	1:g:19:ARG:NE	2.49	0.59
1:g:66:LEU:HD21	1:g:135:LYS:CD	2.32	0.59
1:g:258:ARG:NH1	1:g:391:ILE:HD11	2.17	0.59
1:h:126:TYR:CZ	1:h:158:MET:CE	2.61	0.59
1:h:258:ARG:NH1	1:h:391:ILE:HD11	2.17	0.59
1:h:267:SER:HB2	1:h:268:TYR:HB2	1.83	0.59
1:k:17:TYR:CD1	1:k:167:VAL:HG21	2.36	0.59
1:k:290:SER:HA	1:l:284:GLU:CD	2.24	0.59
1:l:20:LEU:HB3	1:l:167:VAL:HG11	0.68	0.59
1:l:42:LEU:C	1:l:162:ARG:HH22	2.10	0.59
1:a:392:LEU:HD12	1:a:392:LEU:O	2.02	0.59
1:b:16:VAL:HG13	1:b:18:GLU:H	1.67	0.59
1:b:143:VAL:HG22	1:b:161:TYR:HB2	1.82	0.59
1:b:439:LEU:C	1:b:439:LEU:HD13	2.27	0.59
1:b:482:LEU:HD23	1:c:461:ILE:HG23	1.84	0.59
1:c:42:LEU:C	1:c:162:ARG:HH22	2.10	0.59
1:c:146:TYR:HH	1:c:251:TYR:HE2	1.49	0.59
1:d:77:LEU:CD2	1:d:78:PHE:CD1	2.85	0.59
1:e:237:VAL:O	1:e:237:VAL:HG12	2.02	0.59
1:e:418:PRO:HA	1:e:419:LYS:CE	2.29	0.59
1:f:77:LEU:CD2	1:f:78:PHE:CD1	2.85	0.59
1:g:16:VAL:HG13	1:g:18:GLU:H	1.67	0.59
1:h:16:VAL:HG13	1:h:18:GLU:H	1.67	0.59
1:i:258:ARG:NH1	1:i:391:ILE:HD11	2.17	0.59
1:i:267:SER:HB2	1:i:268:TYR:HB2	1.83	0.59
1:i:368:ARG:C	1:i:370:THR:CA	2.75	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:446:VAL:CG2	1:j:452:LEU:HD23	2.30	0.59
1:j:398:LEU:HD12	1:j:402:ARG:HH21	0.57	0.59
1:j:482:LEU:HD23	1:k:461:ILE:HG23	1.84	0.59
1:k:86:LEU:CD1	1:k:422:VAL:CG1	2.79	0.59
1:k:237:VAL:O	1:k:237:VAL:HG12	2.02	0.59
1:k:282:LEU:CD2	1:l:277:ARG:CZ	2.75	0.59
1:l:17:TYR:CD2	1:l:182:ARG:CD	2.81	0.59
1:l:254:ILE:HG23	1:l:395:GLU:HB2	1.84	0.59
1:a:86:LEU:CD1	1:a:422:VAL:CG1	2.79	0.59
1:b:277:ARG:CD	1:b:348:ILE:CG1	2.54	0.59
1:b:397:GLN:CB	1:b:426:ILE:HG12	2.22	0.59
1:c:277:ARG:NH2	1:c:344:VAL:HG13	2.11	0.59
1:c:293:SER:O	1:d:288:LYS:CG	2.48	0.59
1:d:72:LYS:HZ3	1:d:72:LYS:HB2	1.67	0.59
1:e:77:LEU:CD2	1:e:78:PHE:CD2	2.85	0.59
1:e:277:ARG:HH21	1:e:344:VAL:CG1	2.10	0.59
1:f:247:GLU:H	1:f:247:GLU:CD	2.10	0.59
1:f:256:MET:HG3	1:f:256:MET:O	2.01	0.59
1:g:140:ALA:CB	1:g:267:SER:O	2.48	0.59
1:h:56:THR:HG21	1:i:273:LEU:CD1	2.32	0.59
1:h:226:TYR:N	1:h:244:TYR:O	2.31	0.59
1:h:398:LEU:CD2	1:h:426:ILE:HD12	2.32	0.59
1:h:408:LEU:CA	1:h:414:ILE:HG12	2.33	0.59
1:i:16:VAL:HG13	1:i:18:GLU:H	1.67	0.59
1:i:247:GLU:CD	1:i:247:GLU:H	2.09	0.59
1:j:320:VAL:HG11	1:k:297:ILE:HG22	1.44	0.59
1:k:226:TYR:N	1:k:244:TYR:O	2.31	0.59
1:k:290:SER:O	1:l:284:GLU:HG3	2.00	0.59
1:l:237:VAL:O	1:l:237:VAL:HG12	2.02	0.59
1:a:335:GLN:HB3	1:l:331:GLN:HE21	1.66	0.59
1:a:397:GLN:CB	1:a:426:ILE:HG12	2.22	0.59
1:a:452:LEU:HD23	1:l:446:VAL:CG2	2.30	0.59
1:c:54:TYR:CD2	1:c:56:THR:CG2	2.85	0.59
1:c:77:LEU:CD2	1:c:78:PHE:CD1	2.86	0.59
1:c:101:ASP:N	1:c:101:ASP:OD1	2.31	0.59
1:c:256:MET:HG3	1:c:256:MET:O	2.01	0.59
1:c:282:LEU:HD21	1:d:277:ARG:NH2	2.17	0.59
1:c:476:ILE:HG13	1:d:469:ARG:HH12	1.67	0.59
1:d:59:GLN:CD	1:d:275:ASP:OD1	2.46	0.59
1:d:77:LEU:CD2	1:d:78:PHE:CD2	2.85	0.59
1:d:296:VAL:HG11	1:e:332:LEU:HD11	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:392:LEU:HD12	1:d:392:LEU:O	2.02	0.59
1:e:439:LEU:CB	1:f:473:ALA:HB1	2.31	0.59
1:f:442:LEU:HD21	1:f:476:ILE:HG21	1.77	0.59
1:g:77:LEU:CD2	1:g:78:PHE:CD2	2.85	0.59
1:i:266:ARG:O	1:i:266:ARG:HD3	2.01	0.59
1:i:369:VAL:C	1:i:370:THR:HG22	2.27	0.59
1:k:77:LEU:CD2	1:k:78:PHE:CG	2.85	0.59
1:k:266:ARG:O	1:k:266:ARG:HD3	2.01	0.59
1:k:296:VAL:HG11	1:l:332:LEU:HD11	1.84	0.59
1:a:237:VAL:HG12	1:a:237:VAL:O	2.02	0.59
1:c:359:ASN:CG	1:d:380:GLU:CG	2.76	0.59
1:c:425:THR:HA	1:c:426:ILE:HG13	1.84	0.59
1:e:77:LEU:CD2	1:e:78:PHE:CD1	2.85	0.59
1:e:296:VAL:HG11	1:f:332:LEU:HD11	1.84	0.59
1:e:334:LYS:H	1:e:334:LYS:CD	2.09	0.59
1:e:482:LEU:HD23	1:f:461:ILE:HG23	1.84	0.59
1:f:254:ILE:CG1	1:f:395:GLU:HB3	2.24	0.59
1:f:290:SER:HA	1:g:284:GLU:CD	2.24	0.59
1:f:402:ARG:HH11	1:f:402:ARG:CG	2.12	0.59
1:g:54:TYR:CE2	1:g:56:THR:CG2	2.85	0.59
1:g:446:VAL:CG2	1:h:452:LEU:HD23	2.29	0.59
1:h:369:VAL:HG23	1:h:369:VAL:O	2.02	0.59
1:h:439:LEU:HD13	1:h:439:LEU:C	2.27	0.59
1:j:77:LEU:CD2	1:j:78:PHE:CG	2.85	0.59
1:j:266:ARG:O	1:j:266:ARG:HD3	2.01	0.59
1:j:267:SER:HB2	1:j:268:TYR:HB2	1.83	0.59
1:j:439:LEU:CD2	1:k:473:ALA:HB1	2.32	0.59
1:k:77:LEU:CD2	1:k:78:PHE:CD2	2.85	0.59
1:k:398:LEU:CD2	1:k:426:ILE:HD12	2.32	0.59
1:k:408:LEU:CA	1:k:414:ILE:HG12	2.33	0.59
1:l:77:LEU:CD2	1:l:78:PHE:CD2	2.85	0.59
1:l:266:ARG:O	1:l:266:ARG:HD3	2.01	0.59
1:l:323:ARG:HD3	1:l:324:PRO:HD3	1.84	0.59
1:l:397:GLN:CG	1:l:426:ILE:CG2	2.70	0.59
1:l:453:ALA:HB3	1:l:454:PRO:HD3	1.83	0.59
1:a:77:LEU:CD2	1:a:78:PHE:CD2	2.85	0.59
1:a:254:ILE:HG23	1:a:395:GLU:HB2	1.84	0.59
1:a:266:ARG:O	1:a:266:ARG:HD3	2.01	0.59
1:a:268:TYR:O	1:a:270:GLU:CA	2.49	0.59
1:b:17:TYR:CD1	1:b:167:VAL:HG21	2.36	0.59
1:b:54:TYR:CE2	1:b:56:THR:CG2	2.86	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:66:LEU:HD21	1:b:135:LYS:CD	2.32	0.59
1:b:397:GLN:CG	1:b:426:ILE:CG2	2.70	0.59
1:d:17:TYR:CD1	1:d:167:VAL:HG21	2.36	0.59
1:d:254:ILE:HG23	1:d:395:GLU:HB2	1.84	0.59
1:d:325:GLU:N	1:e:299:LEU:HD13	2.17	0.59
1:d:489:GLN:O	1:d:490:GLN:C	2.43	0.59
1:f:77:LEU:CD2	1:f:78:PHE:CD2	2.85	0.59
1:f:397:GLN:CG	1:f:426:ILE:CG2	2.70	0.59
1:g:226:TYR:N	1:g:244:TYR:O	2.31	0.59
1:g:369:VAL:O	1:g:369:VAL:HG23	2.02	0.59
1:g:398:LEU:CD2	1:g:426:ILE:HD12	2.32	0.59
1:h:66:LEU:HD21	1:h:135:LYS:CD	2.32	0.59
1:h:215:THR:HG22	1:h:230:GLU:HG2	1.85	0.59
1:h:254:ILE:HG23	1:h:395:GLU:HB2	1.84	0.59
1:h:418:PRO:HA	1:h:419:LYS:CE	2.30	0.59
1:j:77:LEU:HD23	1:j:78:PHE:CG	2.37	0.59
1:j:268:TYR:O	1:j:270:GLU:CA	2.49	0.59
1:j:446:VAL:CG2	1:k:452:LEU:HD23	2.31	0.59
1:k:77:LEU:CD2	1:k:78:PHE:CD1	2.85	0.59
1:k:268:TYR:O	1:k:270:GLU:CA	2.49	0.59
1:k:439:LEU:CB	1:l:473:ALA:HB1	2.32	0.59
1:l:85:ARG:HA	1:l:114:GLU:OE1	2.03	0.59
1:l:247:GLU:CD	1:l:247:GLU:H	2.10	0.59
1:l:425:THR:HA	1:l:426:ILE:HG13	1.84	0.59
1:b:254:ILE:CD1	1:b:396:LEU:HD22	2.22	0.59
1:b:370:THR:OG1	1:b:371:ALA:N	2.35	0.59
1:c:59:GLN:CD	1:c:275:ASP:OD1	2.45	0.59
1:c:143:VAL:N	1:c:166:TYR:CE2	2.65	0.59
1:c:449:TRP:HB2	1:d:455:MET:HE1	1.80	0.59
1:f:42:LEU:C	1:f:162:ARG:HH22	2.10	0.59
1:f:54:TYR:CD2	1:f:56:THR:HG23	2.37	0.59
1:f:258:ARG:NH1	1:f:391:ILE:HD11	2.17	0.59
1:f:392:LEU:HD12	1:f:392:LEU:O	2.02	0.59
1:g:77:LEU:CD2	1:g:78:PHE:CG	2.85	0.59
1:g:86:LEU:CD1	1:g:422:VAL:CG1	2.80	0.59
1:g:215:THR:HG22	1:g:230:GLU:HG2	1.85	0.59
1:g:237:VAL:O	1:g:237:VAL:HG12	2.02	0.59
1:h:42:LEU:C	1:h:162:ARG:HH22	2.10	0.59
1:i:77:LEU:CD2	1:i:78:PHE:CG	2.85	0.59
1:j:258:ARG:NH1	1:j:391:ILE:HD11	2.17	0.59
1:k:66:LEU:HD21	1:k:135:LYS:CD	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:80:MET:HG2	1:k:80:MET:O	2.02	0.59
1:l:77:LEU:CD2	1:l:78:PHE:CG	2.85	0.59
1:a:77:LEU:HD23	1:a:78:PHE:CG	2.37	0.59
1:a:77:LEU:CD2	1:a:78:PHE:CD1	2.85	0.59
1:a:425:THR:HA	1:a:426:ILE:HG13	1.84	0.59
1:a:473:ALA:HB1	1:l:439:LEU:CD2	2.32	0.59
1:b:17:TYR:CD2	1:b:182:ARG:CD	2.81	0.59
1:b:20:LEU:HB3	1:b:167:VAL:HG11	0.68	0.59
1:b:268:TYR:O	1:b:270:GLU:CA	2.49	0.59
1:c:20:LEU:HB3	1:c:167:VAL:HG11	0.68	0.59
1:c:77:LEU:CD2	1:c:78:PHE:CG	2.85	0.59
1:c:369:VAL:C	1:c:370:THR:HG22	2.26	0.59
1:c:446:VAL:HG11	1:d:451:ALA:HB1	1.85	0.59
1:e:146:TYR:CE1	1:e:251:TYR:HE2	2.21	0.59
1:e:370:THR:HG23	1:e:372:GLU:OE2	2.03	0.59
1:e:439:LEU:C	1:e:439:LEU:HD13	2.27	0.59
1:f:296:VAL:HG11	1:g:332:LEU:HD11	1.85	0.59
1:f:467:LYS:HD3	1:g:461:ILE:HD11	1.84	0.59
1:g:77:LEU:HD23	1:g:78:PHE:CG	2.37	0.59
1:g:77:LEU:CD2	1:g:78:PHE:CE2	2.86	0.59
1:g:439:LEU:CD2	1:h:473:ALA:CB	2.81	0.59
1:h:77:LEU:CD2	1:h:78:PHE:CD2	2.86	0.59
1:h:170:ARG:CD	1:h:177:LEU:CD1	2.65	0.59
1:i:237:VAL:HG12	1:i:237:VAL:O	2.02	0.59
1:i:392:LEU:HD12	1:i:392:LEU:O	2.02	0.59
1:j:77:LEU:CD2	1:j:78:PHE:CD2	2.85	0.59
1:j:282:LEU:CD2	1:k:277:ARG:CZ	2.77	0.59
1:j:408:LEU:CA	1:j:414:ILE:HG12	2.33	0.59
1:k:56:THR:HG21	1:l:273:LEU:CD1	2.33	0.59
1:l:54:TYR:CD2	1:l:56:THR:HG23	2.37	0.59
1:a:393:SER:HB3	1:a:394:GLN:HE22	1.67	0.59
1:b:77:LEU:CD2	1:b:78:PHE:CD1	2.85	0.59
1:b:449:TRP:HB2	1:c:455:MET:HE1	1.81	0.59
1:c:54:TYR:CD2	1:c:56:THR:HG23	2.37	0.59
1:c:393:SER:HB3	1:c:394:GLN:HE22	1.67	0.59
1:c:397:GLN:CB	1:c:426:ILE:HG12	2.22	0.59
1:c:439:LEU:CD2	1:d:473:ALA:HB1	2.32	0.59
1:d:16:VAL:HG13	1:d:18:GLU:H	1.67	0.59
1:d:77:LEU:HD23	1:d:78:PHE:CG	2.37	0.59
1:d:393:SER:HB3	1:d:394:GLN:HE22	1.67	0.59
1:e:77:LEU:CD2	1:e:78:PHE:CE2	2.86	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:254:ILE:HG23	1:e:395:GLU:HB2	1.84	0.59
1:e:254:ILE:CG1	1:e:395:GLU:HB3	2.24	0.59
1:f:77:LEU:CD2	1:f:78:PHE:CE2	2.86	0.59
1:f:85:ARG:HA	1:f:114:GLU:OE1	2.03	0.59
1:f:86:LEU:CD1	1:f:422:VAL:CG1	2.79	0.59
1:f:266:ARG:O	1:f:266:ARG:HD3	2.01	0.59
1:f:393:SER:HB3	1:f:394:GLN:HE22	1.67	0.59
1:f:425:THR:HA	1:f:426:ILE:HG13	1.84	0.59
1:g:17:TYR:CD2	1:g:182:ARG:CD	2.81	0.59
1:g:392:LEU:HD12	1:g:392:LEU:O	2.02	0.59
1:g:439:LEU:C	1:g:439:LEU:HD13	2.27	0.59
1:g:449:TRP:HB2	1:h:455:MET:HE1	1.80	0.59
1:h:77:LEU:CD2	1:h:78:PHE:CG	2.85	0.59
1:h:439:LEU:CB	1:i:473:ALA:HB1	2.32	0.59
1:i:77:LEU:CD2	1:i:78:PHE:CD1	2.85	0.59
1:i:215:THR:HG22	1:i:230:GLU:HG2	1.84	0.59
1:i:282:LEU:HD21	1:j:277:ARG:NH2	2.17	0.59
1:j:17:TYR:CD2	1:j:182:ARG:CD	2.81	0.59
1:j:368:ARG:C	1:j:370:THR:CA	2.76	0.59
1:j:369:VAL:C	1:j:370:THR:HG22	2.28	0.59
1:k:77:LEU:CD2	1:k:78:PHE:CE2	2.86	0.59
1:k:85:ARG:HA	1:k:114:GLU:OE1	2.03	0.59
1:k:323:ARG:HD3	1:k:324:PRO:HD3	1.84	0.59
1:l:268:TYR:O	1:l:270:GLU:CA	2.49	0.59
1:l:368:ARG:C	1:l:370:THR:HB	2.26	0.59
1:a:77:LEU:CD2	1:a:78:PHE:CE2	2.86	0.59
1:a:85:ARG:HA	1:a:114:GLU:OE1	2.03	0.59
1:a:332:LEU:HD11	1:l:296:VAL:HG11	1.85	0.59
1:c:237:VAL:O	1:c:237:VAL:HG12	2.02	0.59
1:c:246:LYS:HE3	1:c:246:LYS:CA	2.25	0.59
1:c:296:VAL:HG11	1:d:332:LEU:HD11	1.85	0.59
1:d:254:ILE:CG1	1:d:395:GLU:HB3	2.25	0.59
1:e:392:LEU:O	1:e:392:LEU:HD12	2.02	0.59
1:g:290:SER:O	1:h:284:GLU:HG3	2.00	0.59
1:g:368:ARG:C	1:g:370:THR:CA	2.75	0.59
1:h:77:LEU:CD2	1:h:78:PHE:CE2	2.86	0.59
1:h:77:LEU:CD2	1:h:78:PHE:CD1	2.85	0.59
1:h:86:LEU:CD1	1:h:422:VAL:CG1	2.80	0.59
1:h:393:SER:HB3	1:h:394:GLN:HE22	1.67	0.59
1:h:425:THR:HA	1:h:426:ILE:HG13	1.84	0.59
1:i:425:THR:HA	1:i:426:ILE:HG13	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:248:ALA:CB	1:j:406:LYS:CG	2.28	0.59
1:k:425:THR:HA	1:k:426:ILE:HG13	1.84	0.59
1:l:418:PRO:HA	1:l:419:LYS:CE	2.30	0.59
1:a:77:LEU:CD2	1:a:78:PHE:CG	2.85	0.58
1:a:408:LEU:CA	1:a:414:ILE:HG12	2.33	0.58
1:a:476:ILE:HG13	1:b:469:ARG:HH12	1.68	0.58
1:b:77:LEU:CD2	1:b:78:PHE:CD2	2.85	0.58
1:b:77:LEU:CD2	1:b:78:PHE:CG	2.85	0.58
1:b:246:LYS:HE3	1:b:246:LYS:CA	2.25	0.58
1:b:323:ARG:HD3	1:b:324:PRO:HD3	1.84	0.58
1:d:17:TYR:CD2	1:d:182:ARG:CD	2.81	0.58
1:d:24:ARG:O	1:d:24:ARG:HG3	2.00	0.58
1:e:397:GLN:CB	1:e:426:ILE:HG12	2.22	0.58
1:f:293:SER:OG	1:g:288:LYS:NZ	2.31	0.58
1:i:54:TYR:CE2	1:i:56:THR:CG2	2.86	0.58
1:i:54:TYR:CD2	1:i:56:THR:CG2	2.85	0.58
1:i:268:TYR:O	1:i:270:GLU:CA	2.49	0.58
1:j:42:LEU:C	1:j:162:ARG:HH22	2.10	0.58
1:j:439:LEU:C	1:j:439:LEU:HD13	2.27	0.58
1:j:480:GLY:C	1:k:465:MET:CG	2.76	0.58
1:k:258:ARG:NH1	1:k:391:ILE:HD11	2.17	0.58
1:k:392:LEU:HD12	1:k:392:LEU:O	2.02	0.58
1:a:20:LEU:HB3	1:a:167:VAL:HG11	0.68	0.58
1:a:453:ALA:O	1:a:456:ARG:CG	2.51	0.58
1:b:254:ILE:HG23	1:b:395:GLU:HB2	1.84	0.58
1:b:425:THR:HA	1:b:426:ILE:HG13	1.84	0.58
1:c:361:ALA:O	1:c:366:GLY:O	2.20	0.58
1:f:54:TYR:CD2	1:f:56:THR:CG2	2.85	0.58
1:f:226:TYR:N	1:f:244:TYR:O	2.31	0.58
1:f:323:ARG:HD3	1:f:324:PRO:HD3	1.84	0.58
1:f:408:LEU:CA	1:f:414:ILE:HG12	2.33	0.58
1:g:256:MET:HG3	1:g:256:MET:O	2.01	0.58
1:g:397:GLN:CG	1:g:426:ILE:CG2	2.70	0.58
1:h:397:GLN:CG	1:h:426:ILE:CG2	2.70	0.58
1:i:68:ASN:ND2	1:i:358:LEU:CD2	2.57	0.58
1:j:483:LEU:N	1:k:460:ASP:O	2.34	0.58
1:k:282:LEU:HD21	1:l:277:ARG:NH2	2.17	0.58
1:l:77:LEU:CD2	1:l:78:PHE:CE2	2.86	0.58
1:l:398:LEU:CD2	1:l:426:ILE:HD12	2.32	0.58
1:l:453:ALA:O	1:l:456:ARG:CG	2.51	0.58
1:a:140:ALA:CB	1:a:267:SER:O	2.48	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:59:GLN:CD	1:b:275:ASP:OD1	2.45	0.58
1:b:85:ARG:HA	1:b:114:GLU:OE1	2.03	0.58
1:e:86:LEU:CD2	1:e:424:PRO:CG	2.81	0.58
1:f:215:THR:HG22	1:f:230:GLU:HG2	1.85	0.58
1:f:369:VAL:C	1:f:370:THR:HG22	2.28	0.58
1:f:398:LEU:CD2	1:f:426:ILE:HD12	2.32	0.58
1:f:482:LEU:HD23	1:g:461:ILE:HG23	1.84	0.58
1:g:254:ILE:HG23	1:g:395:GLU:HB2	1.84	0.58
1:g:425:THR:HA	1:g:426:ILE:HG13	1.84	0.58
1:i:17:TYR:CD1	1:i:167:VAL:HG21	2.36	0.58
1:i:77:LEU:CD2	1:i:78:PHE:CD2	2.85	0.58
1:i:146:TYR:CE1	1:i:251:TYR:HE2	2.21	0.58
1:i:296:VAL:HG11	1:j:332:LEU:HD11	1.86	0.58
1:i:323:ARG:HD3	1:i:324:PRO:HD3	1.84	0.58
1:j:425:THR:HA	1:j:426:ILE:HG13	1.84	0.58
1:k:293:SER:OG	1:l:288:LYS:NZ	2.33	0.58
1:k:439:LEU:CD2	1:l:473:ALA:CB	2.81	0.58
1:k:453:ALA:O	1:k:456:ARG:CG	2.51	0.58
1:l:80:MET:O	1:l:80:MET:HG2	2.02	0.58
1:l:381:LEU:O	1:l:381:LEU:HD13	2.04	0.58
1:l:439:LEU:C	1:l:439:LEU:HD13	2.27	0.58
1:a:184:GLN:OE1	1:a:212:ASP:N	2.37	0.58
1:a:370:THR:O	1:a:373:GLU:CA	2.51	0.58
1:b:77:LEU:CD2	1:b:78:PHE:CE2	2.86	0.58
1:b:184:GLN:OE1	1:b:212:ASP:N	2.37	0.58
1:c:146:TYR:CE1	1:c:251:TYR:HE2	2.21	0.58
1:c:254:ILE:HG23	1:c:395:GLU:HB2	1.84	0.58
1:d:334:LYS:H	1:d:334:LYS:CD	2.09	0.58
1:e:86:LEU:CD1	1:e:422:VAL:CG1	2.79	0.58
1:e:408:LEU:CA	1:e:414:ILE:HG12	2.33	0.58
1:e:446:VAL:HG11	1:f:451:ALA:HB1	1.86	0.58
1:g:408:LEU:CA	1:g:414:ILE:HG12	2.33	0.58
1:h:331:GLN:HE22	1:i:335:GLN:CA	2.12	0.58
1:j:66:LEU:HD21	1:j:135:LYS:CD	2.32	0.58
1:j:293:SER:OG	1:k:288:LYS:NZ	2.31	0.58
1:k:370:THR:HG23	1:k:371:ALA:N	2.17	0.58
1:k:439:LEU:CD2	1:l:473:ALA:HB1	2.31	0.58
1:l:54:TYR:CE2	1:l:56:THR:CG2	2.86	0.58
1:a:80:MET:O	1:a:80:MET:HG2	2.02	0.58
1:a:282:LEU:HD21	1:b:277:ARG:NH2	2.18	0.58
1:b:86:LEU:CD1	1:b:422:VAL:CG1	2.80	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:146:TYR:CE1	1:b:251:TYR:HE2	2.21	0.58
1:b:277:ARG:HH21	1:b:344:VAL:CG1	2.10	0.58
1:b:439:LEU:CB	1:c:473:ALA:HB1	2.34	0.58
1:b:453:ALA:O	1:b:456:ARG:CG	2.51	0.58
1:c:54:TYR:CE2	1:c:56:THR:CG2	2.86	0.58
1:c:77:LEU:CD2	1:c:78:PHE:CD2	2.86	0.58
1:c:453:ALA:O	1:c:456:ARG:CG	2.51	0.58
1:d:254:ILE:CD1	1:d:396:LEU:HD22	2.22	0.58
1:d:323:ARG:HD3	1:d:324:PRO:HD3	1.84	0.58
1:d:369:VAL:O	1:d:369:VAL:HG23	2.02	0.58
1:d:467:LYS:HD3	1:e:461:ILE:HD11	1.84	0.58
1:e:258:ARG:NH1	1:e:391:ILE:HD11	2.17	0.58
1:f:184:GLN:OE1	1:f:212:ASP:N	2.37	0.58
1:f:368:ARG:C	1:f:370:THR:CA	2.76	0.58
1:g:370:THR:HG23	1:g:372:GLU:OE2	2.02	0.58
1:h:85:ARG:HA	1:h:114:GLU:OE1	2.03	0.58
1:h:439:LEU:CD2	1:i:473:ALA:CB	2.81	0.58
1:i:66:LEU:HD21	1:i:135:LYS:CD	2.32	0.58
1:j:54:TYR:CE2	1:j:56:THR:CG2	2.85	0.58
1:j:277:ARG:HH21	1:j:344:VAL:CG1	2.10	0.58
1:k:393:SER:HB3	1:k:394:GLN:HE22	1.67	0.58
1:l:184:GLN:OE1	1:l:212:ASP:N	2.37	0.58
1:l:369:VAL:HG23	1:l:369:VAL:O	2.02	0.58
1:a:290:SER:HA	1:b:284:GLU:CD	2.25	0.58
1:a:451:ALA:HB1	1:l:446:VAL:HG11	1.85	0.58
1:a:480:GLY:C	1:b:465:MET:CG	2.75	0.58
1:b:398:LEU:HB3	1:b:402:ARG:NH2	2.18	0.58
1:b:408:LEU:CA	1:b:414:ILE:HG12	2.33	0.58
1:c:86:LEU:HD23	1:c:424:PRO:CA	2.31	0.58
1:c:359:ASN:HD22	1:d:380:GLU:HB3	1.55	0.58
1:c:369:VAL:HG23	1:c:369:VAL:O	2.02	0.58
1:d:264:TYR:N	1:d:264:TYR:CD1	2.72	0.58
1:d:482:LEU:HD23	1:e:461:ILE:HG23	1.84	0.58
1:e:264:TYR:CD1	1:e:264:TYR:N	2.72	0.58
1:e:290:SER:O	1:f:284:GLU:HG3	1.99	0.58
1:f:170:ARG:CD	1:f:177:LEU:CD1	2.66	0.58
1:f:453:ALA:O	1:f:456:ARG:CG	2.51	0.58
1:g:77:LEU:CD2	1:g:78:PHE:CD1	2.85	0.58
1:g:323:ARG:HD3	1:g:324:PRO:HD3	1.84	0.58
1:g:439:LEU:CB	1:h:473:ALA:HB1	2.33	0.58
1:g:453:ALA:O	1:g:456:ARG:CG	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:54:TYR:CE2	1:h:56:THR:CG2	2.86	0.58
1:h:184:GLN:OE1	1:h:212:ASP:N	2.37	0.58
1:i:142:ASN:HD22	1:i:142:ASN:N	2.01	0.58
1:j:24:ARG:HG3	1:j:24:ARG:O	2.00	0.58
1:k:184:GLN:OE1	1:k:212:ASP:N	2.37	0.58
1:a:215:THR:HG22	1:a:230:GLU:HG2	1.85	0.58
1:b:248:ALA:CB	1:b:406:LYS:CG	2.28	0.58
1:b:258:ARG:NH1	1:b:391:ILE:HD11	2.17	0.58
1:c:483:LEU:N	1:d:460:ASP:O	2.34	0.58
1:d:146:TYR:CE1	1:d:251:TYR:HE2	2.21	0.58
1:d:237:VAL:O	1:d:237:VAL:HG12	2.02	0.58
1:e:184:GLN:OE1	1:e:212:ASP:N	2.37	0.58
1:f:20:LEU:CB	1:f:167:VAL:CG1	2.41	0.58
1:f:254:ILE:HG23	1:f:395:GLU:HB2	1.84	0.58
1:g:184:GLN:OE1	1:g:212:ASP:N	2.37	0.58
1:g:264:TYR:N	1:g:264:TYR:CD1	2.72	0.58
1:h:140:ALA:CB	1:h:267:SER:O	2.48	0.58
1:i:184:GLN:OE1	1:i:212:ASP:N	2.37	0.58
1:i:359:ASN:CG	1:j:380:GLU:CG	2.76	0.58
1:j:323:ARG:HD3	1:j:324:PRO:HD3	1.84	0.58
1:k:146:TYR:CE1	1:k:251:TYR:HE2	2.21	0.58
1:l:86:LEU:CD1	1:l:422:VAL:HG11	2.34	0.58
1:l:338:PHE:N	1:l:338:PHE:CD1	2.72	0.58
1:l:397:GLN:CB	1:l:426:ILE:HG12	2.22	0.58
1:a:338:PHE:CD1	1:a:338:PHE:N	2.72	0.58
1:b:215:THR:HG22	1:b:230:GLU:HG2	1.85	0.58
1:b:446:VAL:HG11	1:c:451:ALA:HB1	1.86	0.58
1:c:338:PHE:CD1	1:c:338:PHE:N	2.72	0.58
1:d:85:ARG:HA	1:d:114:GLU:OE1	2.03	0.58
1:e:85:ARG:HA	1:e:114:GLU:OE1	2.03	0.58
1:e:398:LEU:CD2	1:e:426:ILE:HD12	2.32	0.58
1:f:369:VAL:HG23	1:f:369:VAL:O	2.02	0.58
1:g:296:VAL:HG11	1:h:332:LEU:HD11	1.85	0.58
1:g:422:VAL:O	1:g:422:VAL:HG12	2.04	0.58
1:h:237:VAL:O	1:h:237:VAL:HG12	2.02	0.58
1:h:254:ILE:HA	1:h:395:GLU:CG	2.34	0.58
1:h:264:TYR:CD1	1:h:264:TYR:N	2.72	0.58
1:j:77:LEU:CD2	1:j:78:PHE:CE2	2.86	0.58
1:j:77:LEU:CD2	1:j:78:PHE:CD1	2.85	0.58
1:j:282:LEU:HD21	1:k:277:ARG:NH2	2.18	0.58
1:k:86:LEU:CD2	1:k:424:PRO:CG	2.81	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:86:LEU:CD1	1:k:422:VAL:HG11	2.34	0.58
1:k:248:ALA:CB	1:k:406:LYS:CG	2.28	0.58
1:l:77:LEU:CD2	1:l:78:PHE:CD1	2.85	0.58
1:a:258:ARG:NH1	1:a:391:ILE:HD11	2.17	0.58
1:a:446:VAL:CG2	1:b:452:LEU:HD23	2.29	0.58
1:a:446:VAL:HG11	1:b:451:ALA:HB1	1.84	0.58
1:c:184:GLN:OE1	1:c:212:ASP:N	2.37	0.58
1:c:254:ILE:HA	1:c:395:GLU:CG	2.34	0.58
1:c:323:ARG:HD3	1:c:324:PRO:HD3	1.85	0.58
1:c:408:LEU:CA	1:c:414:ILE:HG12	2.33	0.58
1:d:77:LEU:CD2	1:d:78:PHE:CE2	2.86	0.58
1:d:282:LEU:HD21	1:e:277:ARG:NH2	2.19	0.58
1:e:215:THR:HG22	1:e:230:GLU:HG2	1.85	0.58
1:e:453:ALA:O	1:e:456:ARG:CG	2.51	0.58
1:f:54:TYR:CE2	1:f:56:THR:CG2	2.86	0.58
1:h:268:TYR:O	1:h:270:GLU:CA	2.49	0.58
1:h:453:ALA:O	1:h:456:ARG:CG	2.51	0.58
1:i:77:LEU:CD2	1:i:78:PHE:CE2	2.86	0.58
1:i:446:VAL:HG11	1:j:451:ALA:HB1	1.85	0.58
1:j:184:GLN:OE1	1:j:212:ASP:N	2.37	0.58
1:j:453:ALA:O	1:j:456:ARG:CG	2.51	0.58
1:j:476:ILE:HG13	1:k:469:ARG:HH12	1.69	0.58
1:k:54:TYR:CD2	1:k:56:THR:CG2	2.87	0.58
1:l:20:LEU:CB	1:l:167:VAL:CG1	2.41	0.58
1:l:146:TYR:CE1	1:l:251:TYR:HE2	2.21	0.58
1:l:215:THR:HG22	1:l:230:GLU:HG2	1.85	0.58
1:l:226:TYR:N	1:l:244:TYR:O	2.31	0.58
1:a:59:GLN:CD	1:a:275:ASP:OD1	2.45	0.58
1:a:422:VAL:O	1:a:422:VAL:HG12	2.04	0.58
1:c:77:LEU:CD2	1:c:78:PHE:CE2	2.86	0.58
1:c:85:ARG:HA	1:c:114:GLU:OE1	2.03	0.58
1:c:215:THR:HG22	1:c:230:GLU:HG2	1.85	0.58
1:d:254:ILE:HA	1:d:395:GLU:CG	2.34	0.58
1:d:408:LEU:CA	1:d:414:ILE:HG12	2.33	0.58
1:e:449:TRP:HB3	1:f:455:MET:SD	2.44	0.58
1:g:393:SER:HB3	1:g:394:GLN:HE22	1.67	0.58
1:h:25:ALA:HB3	1:h:26:PRO:HD3	1.86	0.58
1:h:86:LEU:CD2	1:h:424:PRO:CG	2.81	0.58
1:h:422:VAL:HG12	1:h:422:VAL:O	2.04	0.58
1:j:369:VAL:HG23	1:j:369:VAL:O	2.02	0.58
1:k:446:VAL:HG11	1:l:451:ALA:HB1	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:42:LEU:C	1:a:162:ARG:HH22	2.10	0.57
1:a:323:ARG:HD3	1:a:324:PRO:HD3	1.84	0.57
1:a:398:LEU:CD2	1:a:426:ILE:HD12	2.32	0.57
1:b:80:MET:O	1:b:80:MET:HG2	2.02	0.57
1:b:147:LEU:HD22	1:b:147:LEU:N	2.06	0.57
1:b:159:LYS:NZ	1:b:183:ASP:OD2	2.35	0.57
1:c:258:ARG:NH1	1:c:391:ILE:HD11	2.17	0.57
1:d:184:GLN:OE1	1:d:212:ASP:N	2.37	0.57
1:e:25:ALA:HB3	1:e:26:PRO:HD3	1.86	0.57
1:e:254:ILE:HA	1:e:395:GLU:CG	2.34	0.57
1:e:257:VAL:CB	1:e:267:SER:HB3	2.32	0.57
1:e:398:LEU:HB3	1:e:402:ARG:NH2	2.18	0.57
1:f:254:ILE:HA	1:f:395:GLU:CG	2.34	0.57
1:h:446:VAL:HG11	1:i:451:ALA:HB1	1.85	0.57
1:i:25:ALA:HB3	1:i:26:PRO:HD3	1.86	0.57
1:i:439:LEU:CD2	1:j:473:ALA:HB1	2.34	0.57
1:j:146:TYR:CE1	1:j:251:TYR:HE2	2.21	0.57
1:j:215:THR:HG22	1:j:230:GLU:HG2	1.85	0.57
1:j:264:TYR:N	1:j:264:TYR:CD1	2.72	0.57
1:k:277:ARG:HH21	1:k:344:VAL:CG1	2.09	0.57
1:k:449:TRP:HB3	1:l:455:MET:SD	2.44	0.57
1:a:354:PHE:O	1:a:381:LEU:HD11	2.03	0.57
1:b:25:ALA:HB3	1:b:26:PRO:HD3	1.86	0.57
1:b:54:TYR:CD2	1:b:56:THR:CG2	2.87	0.57
1:b:422:VAL:O	1:b:422:VAL:HG12	2.04	0.57
1:c:293:SER:OG	1:d:288:LYS:NZ	2.33	0.57
1:d:77:LEU:CD2	1:d:78:PHE:CZ	2.86	0.57
1:f:78:PHE:CD1	1:f:78:PHE:N	2.72	0.57
1:f:446:VAL:HG11	1:g:451:ALA:HB1	1.86	0.57
1:g:85:ARG:HA	1:g:114:GLU:OE1	2.03	0.57
1:g:481:ILE:CD1	1:h:466:ILE:HD13	2.14	0.57
1:h:54:TYR:CD2	1:h:56:THR:CG2	2.87	0.57
1:i:85:ARG:HA	1:i:114:GLU:OE1	2.03	0.57
1:i:254:ILE:HA	1:i:395:GLU:CG	2.34	0.57
1:j:85:ARG:HA	1:j:114:GLU:OE1	2.03	0.57
1:k:264:TYR:N	1:k:264:TYR:CD1	2.72	0.57
1:l:393:SER:HB3	1:l:394:GLN:HE22	1.67	0.57
1:a:86:LEU:CD1	1:a:422:VAL:HG11	2.34	0.57
1:b:56:THR:HG21	1:c:273:LEU:CD1	2.32	0.57
1:c:268:TYR:O	1:c:270:GLU:CA	2.49	0.57
1:c:334:LYS:H	1:c:334:LYS:CD	2.09	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:78:PHE:CD1	1:d:78:PHE:N	2.72	0.57
1:d:86:LEU:HD23	1:d:424:PRO:CA	2.31	0.57
1:d:370:THR:HG23	1:d:372:GLU:OE2	2.03	0.57
1:d:398:LEU:HB3	1:d:402:ARG:NH2	2.18	0.57
1:f:422:VAL:O	1:f:422:VAL:HG12	2.04	0.57
1:f:483:LEU:N	1:g:460:ASP:O	2.32	0.57
1:g:446:VAL:HG11	1:h:451:ALA:HB1	1.85	0.57
1:i:422:VAL:O	1:i:422:VAL:HG12	2.04	0.57
1:k:368:ARG:C	1:k:370:THR:HB	2.27	0.57
1:a:142:ASN:HD22	1:a:142:ASN:N	2.01	0.57
1:a:310:ARG:NH1	1:a:321:THR:OG1	2.38	0.57
1:b:338:PHE:N	1:b:338:PHE:CD1	2.72	0.57
1:b:439:LEU:CD2	1:c:473:ALA:CB	2.82	0.57
1:c:78:PHE:CD1	1:c:78:PHE:N	2.72	0.57
1:d:422:VAL:O	1:d:422:VAL:HG12	2.04	0.57
1:e:422:VAL:O	1:e:422:VAL:HG12	2.04	0.57
1:e:446:VAL:CG2	1:f:452:LEU:HD23	2.28	0.57
1:f:146:TYR:CE1	1:f:251:TYR:HE2	2.21	0.57
1:g:37:TYR:N	1:g:37:TYR:CD1	2.73	0.57
1:g:254:ILE:HA	1:g:395:GLU:CG	2.34	0.57
1:i:128:VAL:HG11	1:j:390:SER:O	2.05	0.57
1:j:277:ARG:CD	1:j:348:ILE:CG1	2.54	0.57
1:l:258:ARG:NH1	1:l:391:ILE:HD11	2.17	0.57
1:l:422:VAL:O	1:l:422:VAL:HG12	2.04	0.57
1:a:371:ALA:O	1:a:374:ILE:N	2.38	0.57
1:a:398:LEU:HB3	1:a:402:ARG:NH2	2.18	0.57
1:b:310:ARG:NH1	1:b:321:THR:OG1	2.38	0.57
1:c:439:LEU:CB	1:d:473:ALA:HB1	2.34	0.57
1:d:268:TYR:O	1:d:270:GLU:CA	2.49	0.57
1:d:398:LEU:CD2	1:d:426:ILE:HD12	2.32	0.57
1:e:147:LEU:HD22	1:e:147:LEU:N	2.06	0.57
1:e:226:TYR:N	1:e:244:TYR:O	2.31	0.57
1:e:323:ARG:HD3	1:e:324:PRO:HD3	1.84	0.57
1:f:397:GLN:CB	1:f:426:ILE:HG12	2.22	0.57
1:f:418:PRO:HA	1:f:419:LYS:CE	2.30	0.57
1:i:310:ARG:NH1	1:i:321:THR:OG1	2.38	0.57
1:i:369:VAL:HG23	1:i:369:VAL:O	2.02	0.57
1:i:418:PRO:HA	1:i:419:LYS:CE	2.30	0.57
1:j:354:PHE:O	1:j:357:MET:HE3	2.01	0.57
1:l:59:GLN:CD	1:l:275:ASP:OD1	2.45	0.57
1:l:248:ALA:CB	1:l:406:LYS:CG	2.28	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:277:ARG:HH21	1:l:344:VAL:CG1	2.10	0.57
1:a:254:ILE:HA	1:a:395:GLU:CG	2.34	0.57
1:b:331:GLN:HE21	1:c:335:GLN:HB3	1.65	0.57
1:c:86:LEU:CD1	1:c:422:VAL:CG1	2.79	0.57
1:c:254:ILE:CD1	1:c:396:LEU:HD22	2.22	0.57
1:c:325:GLU:CA	1:d:299:LEU:HD13	2.34	0.57
1:c:422:VAL:O	1:c:422:VAL:HG12	2.04	0.57
1:d:258:ARG:NH1	1:d:391:ILE:HD11	2.17	0.57
1:d:453:ALA:O	1:d:456:ARG:CG	2.51	0.57
1:e:37:TYR:N	1:e:37:TYR:CD1	2.73	0.57
1:f:25:ALA:HB3	1:f:26:PRO:HD3	1.87	0.57
1:f:86:LEU:CD1	1:f:422:VAL:HG11	2.34	0.57
1:f:282:LEU:HD21	1:g:277:ARG:NH2	2.18	0.57
1:g:146:TYR:CZ	1:g:251:TYR:HE2	2.23	0.57
1:h:310:ARG:NH1	1:h:321:THR:OG1	2.38	0.57
1:h:463:LEU:N	1:h:463:LEU:HD22	2.20	0.57
1:i:59:GLN:CD	1:i:275:ASP:OD1	2.45	0.57
1:i:398:LEU:HB3	1:i:402:ARG:NH2	2.18	0.57
1:i:450:ALA:N	1:j:455:MET:HE1	2.10	0.57
1:i:453:ALA:O	1:i:456:ARG:CG	2.51	0.57
1:j:78:PHE:CD1	1:j:78:PHE:N	2.72	0.57
1:j:325:GLU:CA	1:k:299:LEU:HD13	2.35	0.57
1:j:338:PHE:N	1:j:338:PHE:CD1	2.72	0.57
1:j:393:SER:HB3	1:j:394:GLN:HE22	1.67	0.57
1:k:25:ALA:HB3	1:k:26:PRO:HD3	1.86	0.57
1:l:142:ASN:HD22	1:l:142:ASN:N	2.01	0.57
1:l:254:ILE:HA	1:l:395:GLU:CG	2.34	0.57
1:a:370:THR:H	1:a:373:GLU:CB	2.17	0.57
1:b:370:THR:HG21	1:b:372:GLU:OE1	2.05	0.57
1:c:264:TYR:N	1:c:264:TYR:CD1	2.72	0.57
1:d:480:GLY:C	1:e:465:MET:CG	2.78	0.57
1:f:126:TYR:CE1	1:f:158:MET:SD	2.98	0.57
1:f:291:MET:HE2	1:f:291:MET:O	2.05	0.57
1:g:248:ALA:CB	1:g:406:LYS:CG	2.28	0.57
1:g:268:TYR:O	1:g:270:GLU:CA	2.49	0.57
1:g:354:PHE:O	1:g:381:LEU:HD11	2.03	0.57
1:h:78:PHE:CD1	1:h:78:PHE:N	2.72	0.57
1:i:78:PHE:CD1	1:i:78:PHE:N	2.72	0.57
1:j:463:LEU:HD22	1:j:463:LEU:N	2.20	0.57
1:k:215:THR:HG22	1:k:230:GLU:HG2	1.85	0.57
1:l:264:TYR:N	1:l:264:TYR:CD1	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:408:LEU:CA	1:l:414:ILE:HG12	2.33	0.57
1:a:264:TYR:N	1:a:264:TYR:CD1	2.72	0.57
1:a:296:VAL:HG11	1:b:332:LEU:HD11	1.87	0.57
1:a:299:LEU:HD13	1:l:325:GLU:CA	2.34	0.57
1:a:370:THR:HG23	1:a:371:ALA:H	1.70	0.57
1:a:473:ALA:HB1	1:l:439:LEU:CB	2.34	0.57
1:a:473:ALA:CB	1:l:439:LEU:CD2	2.82	0.57
1:d:86:LEU:CD1	1:d:422:VAL:HG11	2.34	0.57
1:d:215:THR:HG22	1:d:230:GLU:HG2	1.85	0.57
1:e:86:LEU:CD1	1:e:422:VAL:HG11	2.34	0.57
1:e:291:MET:HE2	1:e:291:MET:O	2.05	0.57
1:g:56:THR:HG21	1:h:273:LEU:CD1	2.34	0.57
1:g:146:TYR:CE1	1:g:251:TYR:HE2	2.21	0.57
1:g:170:ARG:CD	1:g:177:LEU:CD1	2.66	0.57
1:g:310:ARG:NH1	1:g:321:THR:OG1	2.38	0.57
1:h:323:ARG:HD3	1:h:324:PRO:HD3	1.84	0.57
1:i:37:TYR:N	1:i:37:TYR:CD1	2.73	0.57
1:i:264:TYR:N	1:i:264:TYR:CD1	2.72	0.57
1:i:291:MET:HE2	1:i:291:MET:O	2.05	0.57
1:i:408:LEU:CA	1:i:414:ILE:HG12	2.33	0.57
1:j:20:LEU:CB	1:j:167:VAL:CG1	2.41	0.57
1:j:310:ARG:NH1	1:j:321:THR:OG1	2.38	0.57
1:j:439:LEU:CD2	1:k:473:ALA:CB	2.83	0.57
1:k:69:LEU:HG	1:k:73:LEU:HD21	1.87	0.57
1:k:316:THR:CB	1:l:294:SER:O	2.53	0.57
1:l:310:ARG:NH1	1:l:321:THR:OG1	2.38	0.57
1:a:148:PRO:HG3	1:a:156:ASN:ND2	2.20	0.57
1:b:146:TYR:CZ	1:b:251:TYR:HE2	2.23	0.57
1:b:258:ARG:HH12	1:b:391:ILE:CD1	2.14	0.57
1:b:418:PRO:HA	1:b:419:LYS:CE	2.30	0.57
1:c:25:ALA:HB3	1:c:26:PRO:HD3	1.87	0.57
1:c:146:TYR:CZ	1:c:251:TYR:HE2	2.23	0.57
1:c:310:ARG:NH1	1:c:321:THR:OG1	2.38	0.57
1:c:397:GLN:CG	1:c:426:ILE:CG2	2.70	0.57
1:e:128:VAL:HA	1:f:390:SER:OG	2.05	0.57
1:e:162:ARG:NH1	1:f:259:LEU:HD22	2.19	0.57
1:e:254:ILE:CD1	1:e:396:LEU:HD22	2.22	0.57
1:e:310:ARG:NH1	1:e:321:THR:OG1	2.38	0.57
1:f:264:TYR:N	1:f:264:TYR:CD1	2.72	0.57
1:f:310:ARG:NH1	1:f:321:THR:OG1	2.38	0.57
1:f:354:PHE:O	1:f:381:LEU:HD11	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:86:LEU:CD1	1:g:422:VAL:HG11	2.34	0.57
1:g:291:MET:HE2	1:g:291:MET:O	2.05	0.57
1:h:59:GLN:CD	1:h:275:ASP:OD1	2.46	0.57
1:i:146:TYR:CZ	1:i:251:TYR:HE2	2.23	0.57
1:i:159:LYS:NZ	1:i:183:ASP:OD2	2.35	0.57
1:k:54:TYR:CE2	1:k:56:THR:CG2	2.85	0.57
1:k:59:GLN:CD	1:k:275:ASP:OD1	2.45	0.57
1:k:254:ILE:HA	1:k:395:GLU:CG	2.34	0.57
1:l:69:LEU:HG	1:l:73:LEU:HD21	1.87	0.57
1:a:159:LYS:NZ	1:a:183:ASP:OD2	2.35	0.57
1:a:373:GLU:OE1	1:l:370:THR:OG1	2.15	0.57
1:a:439:LEU:CD2	1:b:473:ALA:HB1	2.34	0.57
1:b:86:LEU:CD1	1:b:422:VAL:HG11	2.34	0.57
1:b:148:PRO:HG3	1:b:156:ASN:ND2	2.20	0.57
1:d:338:PHE:CD1	1:d:338:PHE:N	2.72	0.57
1:e:24:ARG:HG3	1:e:24:ARG:O	2.00	0.57
1:e:86:LEU:HD23	1:e:424:PRO:CA	2.31	0.57
1:g:142:ASN:HD22	1:g:142:ASN:N	2.01	0.57
1:g:146:TYR:HH	1:g:251:TYR:HE2	1.53	0.57
1:g:325:GLU:CA	1:h:299:LEU:HD13	2.34	0.57
1:g:359:ASN:CG	1:h:380:GLU:CD	2.72	0.57
1:h:126:TYR:CE1	1:h:158:MET:SD	2.98	0.57
1:j:59:GLN:CD	1:j:275:ASP:OD1	2.45	0.57
1:j:69:LEU:HG	1:j:73:LEU:HD21	1.87	0.57
1:j:254:ILE:HG12	1:j:395:GLU:CB	2.29	0.57
1:k:310:ARG:NH1	1:k:321:THR:OG1	2.38	0.57
1:l:25:ALA:HB3	1:l:26:PRO:HD3	1.86	0.57
1:a:277:ARG:NH2	1:l:282:LEU:HD21	2.18	0.56
1:a:390:SER:O	1:l:128:VAL:HG11	2.05	0.56
1:b:254:ILE:HA	1:b:395:GLU:CG	2.34	0.56
1:b:325:GLU:CA	1:c:299:LEU:HD13	2.34	0.56
1:d:37:TYR:N	1:d:37:TYR:CD1	2.73	0.56
1:d:310:ARG:NH1	1:d:321:THR:OG1	2.38	0.56
1:e:146:TYR:CZ	1:e:251:TYR:HE2	2.23	0.56
1:e:338:PHE:CD1	1:e:338:PHE:N	2.72	0.56
1:e:369:VAL:HG23	1:e:369:VAL:O	2.05	0.56
1:f:37:TYR:N	1:f:37:TYR:CD1	2.72	0.56
1:g:59:GLN:CD	1:g:275:ASP:OD1	2.45	0.56
1:g:86:LEU:HD23	1:g:424:PRO:CA	2.31	0.56
1:h:291:MET:HE2	1:h:291:MET:O	2.05	0.56
1:h:449:TRP:HB3	1:i:455:MET:SD	2.44	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:56:THR:HG21	1:k:273:LEU:CD1	2.35	0.56
1:j:120:TYR:O	1:j:124:ASN:N	2.38	0.56
1:k:77:LEU:CD2	1:k:78:PHE:CZ	2.86	0.56
1:k:120:TYR:O	1:k:124:ASN:N	2.38	0.56
1:k:291:MET:HE2	1:k:291:MET:O	2.05	0.56
1:k:338:PHE:N	1:k:338:PHE:CD1	2.72	0.56
1:l:148:PRO:HG3	1:l:156:ASN:ND2	2.20	0.56
1:a:38:THR:O	1:a:57:PRO:HG3	2.05	0.56
1:a:369:VAL:HA	1:a:370:THR:CB	2.30	0.56
1:a:397:GLN:CB	1:a:426:ILE:CG1	2.72	0.56
1:b:264:TYR:N	1:b:264:TYR:CD1	2.72	0.56
1:b:446:VAL:CG2	1:c:452:LEU:HD23	2.30	0.56
1:c:86:LEU:CD1	1:c:422:VAL:HG11	2.34	0.56
1:c:126:TYR:CE1	1:c:158:MET:SD	2.98	0.56
1:c:398:LEU:CD2	1:c:426:ILE:HD12	2.32	0.56
1:d:25:ALA:HB3	1:d:26:PRO:HD3	1.87	0.56
1:d:69:LEU:HG	1:d:73:LEU:HD21	1.87	0.56
1:d:157:PRO:HG3	1:e:173:PHE:HB2	1.87	0.56
1:d:316:THR:CB	1:e:294:SER:O	2.52	0.56
1:d:319:PHE:HE2	1:e:311:LEU:HB3	1.55	0.56
1:d:368:ARG:C	1:d:370:THR:CA	2.78	0.56
1:d:369:VAL:C	1:d:370:THR:HG22	2.30	0.56
1:e:78:PHE:CD1	1:e:78:PHE:N	2.72	0.56
1:e:126:TYR:CE1	1:e:158:MET:SD	2.98	0.56
1:g:369:VAL:C	1:g:370:THR:HG22	2.29	0.56
1:g:449:TRP:HB3	1:h:455:MET:SD	2.44	0.56
1:g:463:LEU:HD22	1:g:463:LEU:N	2.20	0.56
1:h:37:TYR:N	1:h:37:TYR:CD1	2.73	0.56
1:i:86:LEU:CD2	1:i:424:PRO:CG	2.81	0.56
1:i:325:GLU:CA	1:j:299:LEU:HD13	2.35	0.56
1:i:480:GLY:HA3	1:j:465:MET:HG3	1.86	0.56
1:k:354:PHE:O	1:k:357:MET:HE1	2.02	0.56
1:k:397:GLN:CB	1:k:426:ILE:HG12	2.22	0.56
1:l:291:MET:HE2	1:l:291:MET:O	2.05	0.56
1:a:120:TYR:O	1:a:124:ASN:N	2.38	0.56
1:a:294:SER:O	1:l:316:THR:CB	2.54	0.56
1:a:325:GLU:CA	1:b:299:LEU:HD13	2.35	0.56
1:a:359:ASN:HB3	1:b:380:GLU:OE1	2.05	0.56
1:a:372:GLU:H	1:a:372:GLU:CD	2.13	0.56
1:a:439:LEU:CB	1:b:473:ALA:HB1	2.36	0.56
1:b:370:THR:H	1:b:373:GLU:CB	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:398:LEU:CD2	1:b:426:ILE:HD12	2.32	0.56
1:c:128:VAL:HA	1:d:390:SER:OG	2.06	0.56
1:c:148:PRO:HG3	1:c:156:ASN:ND2	2.20	0.56
1:d:17:TYR:HE2	1:d:182:ARG:HD3	1.60	0.56
1:d:20:LEU:CB	1:d:167:VAL:CG1	2.41	0.56
1:d:98:SER:HA	1:d:99:ASP:O	2.05	0.56
1:d:254:ILE:HD13	1:d:396:LEU:CD2	2.29	0.56
1:d:291:MET:HE2	1:d:291:MET:O	2.05	0.56
1:d:439:LEU:CD2	1:e:473:ALA:HB1	2.34	0.56
1:d:446:VAL:HG11	1:e:451:ALA:HB1	1.86	0.56
1:d:449:TRP:HB2	1:e:455:MET:HE1	1.81	0.56
1:e:325:GLU:CA	1:f:299:LEU:HD13	2.33	0.56
1:e:368:ARG:C	1:e:370:THR:CA	2.78	0.56
1:f:120:TYR:O	1:f:124:ASN:N	2.38	0.56
1:f:142:ASN:HD22	1:f:142:ASN:N	2.01	0.56
1:f:316:THR:CB	1:g:294:SER:O	2.53	0.56
1:f:439:LEU:CD2	1:g:473:ALA:HB1	2.34	0.56
1:f:480:GLY:C	1:g:465:MET:CG	2.78	0.56
1:g:20:LEU:CB	1:g:167:VAL:CG1	2.41	0.56
1:g:25:ALA:HB3	1:g:26:PRO:HD3	1.86	0.56
1:g:80:MET:HB2	1:g:127:ARG:NH1	2.21	0.56
1:h:80:MET:HB2	1:h:127:ARG:NH1	2.21	0.56
1:h:86:LEU:CD1	1:h:422:VAL:HG11	2.34	0.56
1:h:325:GLU:CA	1:i:299:LEU:HD13	2.34	0.56
1:i:80:MET:HB2	1:i:127:ARG:NH1	2.21	0.56
1:i:288:LYS:HE2	1:i:335:GLN:CB	2.36	0.56
1:i:476:ILE:HG13	1:j:469:ARG:HH12	1.69	0.56
1:i:481:ILE:CD1	1:j:466:ILE:HD13	2.16	0.56
1:j:80:MET:HB2	1:j:127:ARG:NH1	2.21	0.56
1:j:254:ILE:C	1:j:395:GLU:HG3	2.31	0.56
1:j:422:VAL:O	1:j:422:VAL:HG12	2.04	0.56
1:k:80:MET:HB2	1:k:127:ARG:NH1	2.21	0.56
1:k:398:LEU:HB3	1:k:402:ARG:NH2	2.18	0.56
1:l:120:TYR:O	1:l:124:ASN:N	2.38	0.56
1:l:254:ILE:C	1:l:395:GLU:HG3	2.30	0.56
1:a:78:PHE:CD1	1:a:78:PHE:N	2.72	0.56
1:a:316:THR:CB	1:b:294:SER:O	2.54	0.56
1:b:316:THR:CB	1:c:294:SER:O	2.53	0.56
1:c:37:TYR:CD1	1:c:37:TYR:N	2.73	0.56
1:c:439:LEU:CD2	1:d:473:ALA:CB	2.83	0.56
1:c:439:LEU:HD13	1:c:439:LEU:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:290:SER:O	1:e:284:GLU:HG3	2.04	0.56
1:d:439:LEU:HD13	1:d:439:LEU:O	2.06	0.56
1:e:369:VAL:HA	1:e:370:THR:CB	2.36	0.56
1:e:397:GLN:CG	1:e:426:ILE:CG2	2.70	0.56
1:f:277:ARG:HH21	1:f:344:VAL:CG1	2.10	0.56
1:g:316:THR:CB	1:h:294:SER:O	2.53	0.56
1:g:320:VAL:CG1	1:h:297:ILE:HG23	2.30	0.56
1:g:439:LEU:HD13	1:g:439:LEU:O	2.06	0.56
1:h:17:TYR:HE2	1:h:182:ARG:HD2	1.61	0.56
1:h:146:TYR:CE1	1:h:251:TYR:HE2	2.21	0.56
1:h:248:ALA:CB	1:h:406:LYS:CG	2.28	0.56
1:h:316:THR:CB	1:i:294:SER:O	2.54	0.56
1:h:369:VAL:HA	1:h:370:THR:CB	2.36	0.56
1:h:449:TRP:HB2	1:i:455:MET:HE1	1.80	0.56
1:i:98:SER:HA	1:i:99:ASP:O	2.05	0.56
1:i:120:TYR:O	1:i:124:ASN:N	2.38	0.56
1:i:393:SER:HB3	1:i:394:GLN:HE22	1.67	0.56
1:j:37:TYR:N	1:j:37:TYR:CD1	2.73	0.56
1:j:159:LYS:NZ	1:j:183:ASP:OD2	2.35	0.56
1:j:291:MET:HE2	1:j:291:MET:O	2.05	0.56
1:k:148:PRO:HG3	1:k:156:ASN:ND2	2.20	0.56
1:l:146:TYR:CZ	1:l:251:TYR:HE2	2.23	0.56
1:a:25:ALA:HB3	1:a:26:PRO:HD3	1.86	0.56
1:a:254:ILE:HG12	1:a:395:GLU:CB	2.29	0.56
1:a:480:GLY:HA3	1:b:465:MET:HG3	1.86	0.56
1:b:98:SER:HA	1:b:99:ASP:O	2.05	0.56
1:b:128:VAL:HG11	1:c:390:SER:O	2.05	0.56
1:c:258:ARG:HH12	1:c:391:ILE:CD1	2.14	0.56
1:d:418:PRO:HA	1:d:419:LYS:CE	2.30	0.56
1:e:406:LYS:HA	1:e:406:LYS:HZ2	1.66	0.56
1:f:86:LEU:HD23	1:f:424:PRO:CA	2.31	0.56
1:f:290:SER:O	1:g:284:GLU:HG3	2.04	0.56
1:g:120:TYR:O	1:g:124:ASN:N	2.38	0.56
1:g:398:LEU:HB3	1:g:402:ARG:NH2	2.18	0.56
1:h:98:SER:HA	1:h:99:ASP:O	2.05	0.56
1:i:69:LEU:HG	1:i:73:LEU:HD21	1.87	0.56
1:i:77:LEU:CD2	1:i:78:PHE:CZ	2.86	0.56
1:j:254:ILE:HA	1:j:395:GLU:CG	2.34	0.56
1:k:78:PHE:CD1	1:k:78:PHE:N	2.72	0.56
1:l:78:PHE:CD1	1:l:78:PHE:N	2.72	0.56
1:a:146:TYR:CZ	1:a:251:TYR:HE2	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:254:ILE:HD13	1:a:396:LEU:CD2	2.29	0.56
1:a:291:MET:HE2	1:a:291:MET:O	2.05	0.56
1:b:77:LEU:CD2	1:b:78:PHE:CZ	2.86	0.56
1:c:69:LEU:HG	1:c:73:LEU:HD21	1.87	0.56
1:c:120:TYR:O	1:c:124:ASN:N	2.38	0.56
1:d:148:PRO:HG3	1:d:156:ASN:ND2	2.20	0.56
1:d:300:VAL:HA	1:d:327:ILE:HG22	0.59	0.56
1:d:463:LEU:HD22	1:d:463:LEU:N	2.20	0.56
1:e:120:TYR:O	1:e:124:ASN:N	2.38	0.56
1:e:463:LEU:N	1:e:463:LEU:HD22	2.20	0.56
1:f:268:TYR:O	1:f:270:GLU:CA	2.49	0.56
1:h:288:LYS:HE2	1:h:335:GLN:CB	2.36	0.56
1:i:86:LEU:HD21	1:i:424:PRO:HG3	1.88	0.56
1:j:146:TYR:CZ	1:j:251:TYR:HE2	2.23	0.56
1:j:316:THR:CB	1:k:294:SER:O	2.53	0.56
1:j:397:GLN:CG	1:j:426:ILE:CG2	2.69	0.56
1:k:37:TYR:CD1	1:k:37:TYR:N	2.73	0.56
1:k:422:VAL:HG12	1:k:422:VAL:O	2.05	0.56
1:k:463:LEU:HD22	1:k:463:LEU:N	2.20	0.56
1:l:288:LYS:HE2	1:l:335:GLN:CB	2.36	0.56
1:a:107:ASP:HA	1:a:110:LEU:HG	1.88	0.56
1:a:423:GLU:OE1	1:a:423:GLU:N	2.39	0.56
1:a:439:LEU:HD13	1:a:439:LEU:O	2.06	0.56
1:a:455:MET:SD	1:l:449:TRP:HB3	2.45	0.56
1:a:465:MET:HG3	1:l:480:GLY:HA3	1.87	0.56
1:b:78:PHE:CD1	1:b:78:PHE:N	2.72	0.56
1:b:86:LEU:HD21	1:b:424:PRO:HG3	1.88	0.56
1:b:423:GLU:OE1	1:b:423:GLU:N	2.39	0.56
1:c:291:MET:HE2	1:c:291:MET:O	2.05	0.56
1:d:86:LEU:HD21	1:d:424:PRO:HG3	1.88	0.56
1:f:17:TYR:HE2	1:f:182:ARG:HD3	1.60	0.56
1:f:288:LYS:HE2	1:f:335:GLN:CB	2.36	0.56
1:f:338:PHE:CD1	1:f:338:PHE:N	2.72	0.56
1:f:439:LEU:HD13	1:f:439:LEU:O	2.06	0.56
1:g:86:LEU:HD21	1:g:424:PRO:HG3	1.88	0.56
1:g:300:VAL:HA	1:g:327:ILE:HG22	0.59	0.56
1:h:69:LEU:HG	1:h:73:LEU:HD21	1.87	0.56
1:h:128:VAL:HG11	1:i:390:SER:O	2.05	0.56
1:j:128:VAL:HG11	1:k:390:SER:O	2.06	0.56
1:j:157:PRO:HG3	1:k:173:PHE:HB2	1.88	0.56
1:j:288:LYS:HE2	1:j:335:GLN:CB	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:128:VAL:HG11	1:l:390:SER:O	2.06	0.56
1:k:257:VAL:CB	1:k:267:SER:HB3	2.32	0.56
1:k:325:GLU:CA	1:l:299:LEU:HD13	2.35	0.56
1:k:397:GLN:CG	1:k:426:ILE:CG2	2.69	0.56
1:a:57:PRO:O	1:a:279:LEU:CD2	2.54	0.56
1:a:98:SER:HA	1:a:99:ASP:O	2.05	0.56
1:a:146:TYR:CE1	1:a:251:TYR:HE2	2.21	0.56
1:b:107:ASP:HA	1:b:110:LEU:HG	1.88	0.56
1:b:334:LYS:H	1:b:334:LYS:CD	2.09	0.56
1:c:449:TRP:HB3	1:d:455:MET:SD	2.45	0.56
1:c:463:LEU:HD22	1:c:463:LEU:N	2.20	0.56
1:d:146:TYR:CZ	1:d:251:TYR:HE2	2.23	0.56
1:e:268:TYR:O	1:e:270:GLU:CA	2.49	0.56
1:f:77:LEU:CD2	1:f:78:PHE:CZ	2.86	0.56
1:f:80:MET:HB2	1:f:127:ARG:NH1	2.21	0.56
1:g:418:PRO:HA	1:g:419:LYS:CE	2.30	0.56
1:i:86:LEU:CD1	1:i:422:VAL:HG11	2.34	0.56
1:j:98:SER:HA	1:j:99:ASP:O	2.05	0.56
1:j:142:ASN:HD22	1:j:142:ASN:N	2.01	0.56
1:j:369:VAL:HA	1:j:370:THR:CB	2.36	0.56
1:j:439:LEU:HD13	1:j:439:LEU:O	2.05	0.56
1:l:80:MET:HB2	1:l:127:ARG:NH1	2.21	0.56
1:l:369:VAL:HA	1:l:370:THR:CB	2.35	0.56
1:a:80:MET:HB2	1:a:127:ARG:NH1	2.21	0.56
1:a:226:TYR:N	1:a:244:TYR:O	2.31	0.56
1:a:463:LEU:HD22	1:a:463:LEU:N	2.20	0.56
1:b:120:TYR:O	1:b:124:ASN:N	2.38	0.56
1:b:257:VAL:CB	1:b:267:SER:HB3	2.32	0.56
1:e:248:ALA:CB	1:e:406:LYS:CG	2.27	0.56
1:e:369:VAL:CA	1:e:370:THR:HB	2.36	0.56
1:f:59:GLN:CD	1:f:275:ASP:OD1	2.45	0.56
1:f:359:ASN:CG	1:g:380:GLU:CG	2.79	0.56
1:g:98:SER:HA	1:g:99:ASP:O	2.05	0.56
1:g:288:LYS:HE2	1:g:335:GLN:CB	2.36	0.56
1:g:480:GLY:C	1:h:465:MET:HG2	2.31	0.56
1:i:290:SER:O	1:j:284:GLU:HG3	2.03	0.56
1:j:25:ALA:HB3	1:j:26:PRO:HD3	1.86	0.56
1:j:423:GLU:OE1	1:j:423:GLU:N	2.39	0.56
1:k:146:TYR:CZ	1:k:251:TYR:HE2	2.23	0.56
1:a:37:TYR:N	1:a:37:TYR:CD1	2.73	0.56
1:a:288:LYS:HE2	1:a:335:GLN:CB	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:368:ARG:C	1:c:370:THR:CA	2.79	0.56
1:c:398:LEU:HB3	1:c:402:ARG:NH2	2.18	0.56
1:d:159:LYS:NZ	1:d:183:ASP:OD2	2.35	0.56
1:e:288:LYS:HE2	1:e:335:GLN:CB	2.36	0.56
1:f:128:VAL:HG11	1:g:390:SER:O	2.05	0.56
1:f:325:GLU:CA	1:g:299:LEU:HD13	2.35	0.56
1:f:369:VAL:CA	1:f:370:THR:HB	2.36	0.56
1:h:338:PHE:N	1:h:338:PHE:CD1	2.72	0.56
1:h:369:VAL:C	1:h:370:THR:HG22	2.31	0.56
1:j:148:PRO:HG3	1:j:156:ASN:ND2	2.20	0.56
1:j:300:VAL:HA	1:j:327:ILE:HG22	0.59	0.56
1:k:418:PRO:HA	1:k:419:LYS:CE	2.30	0.56
1:l:98:SER:HA	1:l:99:ASP:O	2.05	0.56
1:l:244:TYR:CB	1:l:249:CYS:O	2.53	0.56
1:l:439:LEU:HD13	1:l:439:LEU:O	2.06	0.56
1:a:20:LEU:CB	1:a:167:VAL:CG1	2.41	0.55
1:a:449:TRP:HB3	1:b:455:MET:SD	2.45	0.55
1:b:142:ASN:HD22	1:b:142:ASN:N	2.01	0.55
1:b:226:TYR:N	1:b:244:TYR:O	2.31	0.55
1:b:291:MET:HE2	1:b:291:MET:O	2.05	0.55
1:c:77:LEU:CD2	1:c:78:PHE:CZ	2.86	0.55
1:c:107:ASP:HA	1:c:110:LEU:HG	1.88	0.55
1:c:128:VAL:HG11	1:d:390:SER:O	2.05	0.55
1:c:142:ASN:HD22	1:c:142:ASN:N	2.01	0.55
1:d:258:ARG:HH12	1:d:391:ILE:CD1	2.14	0.55
1:e:128:VAL:HG11	1:f:390:SER:O	2.06	0.55
1:e:369:VAL:CA	1:e:370:THR:CB	2.84	0.55
1:f:244:TYR:CB	1:f:249:CYS:O	2.53	0.55
1:g:54:TYR:CD2	1:g:56:THR:CG2	2.89	0.55
1:g:277:ARG:HG3	1:g:348:ILE:HG12	1.88	0.55
1:g:397:GLN:CB	1:g:426:ILE:HG12	2.22	0.55
1:h:120:TYR:O	1:h:124:ASN:N	2.38	0.55
1:h:146:TYR:CZ	1:h:251:TYR:HE2	2.23	0.55
1:i:316:THR:CB	1:j:294:SER:O	2.54	0.55
1:i:354:PHE:O	1:i:381:LEU:HD11	2.03	0.55
1:i:439:LEU:CD2	1:j:473:ALA:CB	2.84	0.55
1:k:98:SER:HA	1:k:99:ASP:O	2.05	0.55
1:k:369:VAL:HA	1:k:370:THR:CB	2.35	0.55
1:c:369:VAL:HA	1:c:370:THR:CB	2.36	0.55
1:d:369:VAL:CA	1:d:370:THR:HB	2.35	0.55
1:e:80:MET:HB2	1:e:127:ARG:NH1	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:450:ALA:CA	1:f:455:MET:CE	2.84	0.55
1:f:146:TYR:CZ	1:f:251:TYR:HE2	2.23	0.55
1:f:369:VAL:HA	1:f:370:THR:CB	2.36	0.55
1:g:257:VAL:CB	1:g:267:SER:HB3	2.32	0.55
1:g:369:VAL:HA	1:g:370:THR:CB	2.36	0.55
1:g:369:VAL:CA	1:g:370:THR:HB	2.35	0.55
1:g:369:VAL:CA	1:g:370:THR:CB	2.84	0.55
1:h:107:ASP:HA	1:h:110:LEU:HG	1.88	0.55
1:h:369:VAL:CA	1:h:370:THR:HB	2.36	0.55
1:i:17:TYR:HE2	1:i:182:ARG:HD2	1.61	0.55
1:i:406:LYS:HA	1:i:406:LYS:HZ2	1.70	0.55
1:i:439:LEU:CB	1:j:473:ALA:HB1	2.36	0.55
1:j:369:VAL:CA	1:j:370:THR:HB	2.36	0.55
1:j:439:LEU:CB	1:k:473:ALA:HB1	2.36	0.55
1:k:368:ARG:C	1:k:370:THR:CA	2.79	0.55
1:l:369:VAL:CA	1:l:370:THR:CB	2.84	0.55
1:a:335:GLN:CA	1:l:331:GLN:HE22	2.14	0.55
1:b:128:VAL:HA	1:c:390:SER:OG	2.07	0.55
1:c:98:SER:HA	1:c:99:ASP:O	2.05	0.55
1:c:162:ARG:HD2	1:d:260:ASP:OD2	1.89	0.55
1:c:288:LYS:HE2	1:c:335:GLN:CB	2.36	0.55
1:d:226:TYR:N	1:d:244:TYR:O	2.31	0.55
1:d:246:LYS:HE3	1:d:246:LYS:CA	2.25	0.55
1:e:142:ASN:HD22	1:e:142:ASN:N	2.01	0.55
1:e:293:SER:O	1:f:288:LYS:CA	2.54	0.55
1:f:86:LEU:HD21	1:f:424:PRO:HG3	1.88	0.55
1:f:147:LEU:H	1:f:147:LEU:CD2	2.08	0.55
1:f:369:VAL:CA	1:f:370:THR:CB	2.84	0.55
1:f:476:ILE:HG13	1:g:469:ARG:HH12	1.72	0.55
1:g:69:LEU:HG	1:g:73:LEU:HD21	1.87	0.55
1:g:107:ASP:HA	1:g:110:LEU:HG	1.88	0.55
1:g:128:VAL:HG11	1:h:390:SER:O	2.07	0.55
1:h:369:VAL:CA	1:h:370:THR:CB	2.84	0.55
1:h:397:GLN:CB	1:h:426:ILE:CG1	2.72	0.55
1:i:423:GLU:N	1:i:423:GLU:OE1	2.39	0.55
1:i:439:LEU:HD13	1:i:439:LEU:O	2.06	0.55
1:i:463:LEU:HD22	1:i:463:LEU:N	2.20	0.55
1:j:257:VAL:CB	1:j:267:SER:HB3	2.32	0.55
1:k:86:LEU:HD21	1:k:424:PRO:HG3	1.88	0.55
1:k:288:LYS:HE2	1:k:335:GLN:CB	2.36	0.55
1:k:483:LEU:N	1:l:460:ASP:O	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:423:GLU:OE1	1:l:423:GLU:N	2.39	0.55
1:b:449:TRP:HB3	1:c:455:MET:SD	2.46	0.55
1:c:162:ARG:NH1	1:d:259:LEU:HD22	2.20	0.55
1:c:226:TYR:N	1:c:244:TYR:O	2.31	0.55
1:d:120:TYR:O	1:d:124:ASN:N	2.38	0.55
1:d:369:VAL:CA	1:d:370:THR:CB	2.84	0.55
1:e:86:LEU:HD21	1:e:424:PRO:HG3	1.88	0.55
1:e:98:SER:HA	1:e:99:ASP:O	2.05	0.55
1:e:148:PRO:HG3	1:e:156:ASN:ND2	2.20	0.55
1:f:24:ARG:O	1:f:24:ARG:HG3	2.00	0.55
1:f:463:LEU:HD22	1:f:463:LEU:N	2.20	0.55
1:g:126:TYR:CE1	1:g:158:MET:SD	2.98	0.55
1:j:54:TYR:CD2	1:j:56:THR:CG2	2.89	0.55
1:j:480:GLY:HA3	1:k:465:MET:HG3	1.88	0.55
1:l:107:ASP:HA	1:l:110:LEU:HG	1.88	0.55
1:l:463:LEU:HD22	1:l:463:LEU:N	2.20	0.55
1:b:37:TYR:N	1:b:37:TYR:CD1	2.73	0.55
1:b:439:LEU:HD13	1:b:439:LEU:O	2.06	0.55
1:c:369:VAL:CA	1:c:370:THR:CB	2.84	0.55
1:c:369:VAL:CA	1:c:370:THR:HB	2.36	0.55
1:d:288:LYS:HE2	1:d:335:GLN:CB	2.36	0.55
1:f:98:SER:HA	1:f:99:ASP:O	2.05	0.55
1:f:248:ALA:CB	1:f:406:LYS:CG	2.28	0.55
1:g:254:ILE:HG12	1:g:395:GLU:CB	2.29	0.55
1:h:244:TYR:CB	1:h:249:CYS:O	2.53	0.55
1:i:449:TRP:HB2	1:j:455:MET:HE1	1.80	0.55
1:j:446:VAL:HG11	1:k:451:ALA:HB1	1.86	0.55
1:k:423:GLU:N	1:k:423:GLU:OE1	2.39	0.55
1:l:86:LEU:HD21	1:l:424:PRO:HG3	1.88	0.55
1:a:126:TYR:CE1	1:a:158:MET:SD	2.98	0.55
1:b:80:MET:HB2	1:b:127:ARG:NH1	2.21	0.55
1:b:126:TYR:CE1	1:b:158:MET:SD	2.98	0.55
1:b:288:LYS:HE2	1:b:335:GLN:CB	2.36	0.55
1:d:107:ASP:HA	1:d:110:LEU:HG	1.88	0.55
1:d:476:ILE:HG13	1:e:469:ARG:HH12	1.72	0.55
1:e:107:ASP:HA	1:e:110:LEU:HG	1.88	0.55
1:e:423:GLU:OE1	1:e:423:GLU:N	2.39	0.55
1:e:439:LEU:HD13	1:e:439:LEU:O	2.06	0.55
1:f:107:ASP:HA	1:f:110:LEU:HG	1.88	0.55
1:f:157:PRO:HG3	1:g:173:PHE:HB2	1.89	0.55
1:g:277:ARG:HH21	1:g:344:VAL:CG1	2.10	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:126:TYR:CZ	1:j:158:MET:CE	2.61	0.55
1:j:359:ASN:CG	1:k:380:GLU:CD	2.72	0.55
1:b:463:LEU:HD22	1:b:463:LEU:N	2.20	0.55
1:c:30:ARG:O	1:c:34:CYS:SG	2.65	0.55
1:c:446:VAL:CG2	1:d:452:LEU:HD23	2.29	0.55
1:d:359:ASN:CG	1:e:380:GLU:CD	2.74	0.55
1:d:369:VAL:HA	1:d:370:THR:CB	2.36	0.55
1:f:146:TYR:HH	1:f:251:TYR:HE2	1.55	0.55
1:f:398:LEU:HB3	1:f:402:ARG:NH2	2.18	0.55
1:h:257:VAL:CB	1:h:267:SER:HB3	2.32	0.55
1:i:148:PRO:HG3	1:i:156:ASN:ND2	2.20	0.55
1:j:397:GLN:CB	1:j:426:ILE:HG12	2.22	0.55
1:k:331:GLN:HE22	1:l:335:GLN:CA	2.12	0.55
1:k:369:VAL:CA	1:k:370:THR:HB	2.36	0.55
1:l:369:VAL:CA	1:l:370:THR:HB	2.36	0.55
1:a:77:LEU:CD2	1:a:78:PHE:CZ	2.86	0.55
1:a:86:LEU:HD21	1:a:424:PRO:HG3	1.88	0.55
1:a:128:VAL:HA	1:b:390:SER:OG	2.07	0.55
1:a:390:SER:OG	1:l:128:VAL:HA	2.06	0.55
1:b:369:VAL:CA	1:b:370:THR:CB	2.84	0.55
1:c:17:TYR:HE2	1:c:182:ARG:HD2	1.60	0.55
1:d:80:MET:HB2	1:d:127:ARG:NH1	2.21	0.55
1:d:423:GLU:OE1	1:d:423:GLU:N	2.39	0.55
1:e:59:GLN:CD	1:e:275:ASP:OD1	2.45	0.55
1:f:277:ARG:HG3	1:f:348:ILE:HG12	1.88	0.55
1:f:423:GLU:N	1:f:423:GLU:OE1	2.39	0.55
1:g:446:VAL:HG23	1:h:452:LEU:HD21	1.73	0.55
1:g:480:GLY:HA3	1:h:465:MET:HG3	1.88	0.55
1:h:439:LEU:HD13	1:h:439:LEU:O	2.06	0.55
1:i:277:ARG:NH2	1:i:344:VAL:HG13	2.11	0.55
1:i:338:PHE:CD1	1:i:338:PHE:N	2.72	0.55
1:i:369:VAL:HA	1:i:370:THR:CB	2.36	0.55
1:k:107:ASP:HA	1:k:110:LEU:HG	1.88	0.55
1:k:480:GLY:C	1:l:465:MET:HG2	2.30	0.55
1:l:30:ARG:O	1:l:34:CYS:SG	2.65	0.55
1:l:126:TYR:CE1	1:l:158:MET:SD	2.98	0.55
1:l:335:GLN:H	1:l:335:GLN:CD	2.13	0.55
1:b:69:LEU:HG	1:b:73:LEU:HD21	1.87	0.55
1:b:166:TYR:C	1:b:166:TYR:CD1	2.85	0.55
1:c:56:THR:CG2	1:d:273:LEU:HD12	2.30	0.55
1:c:423:GLU:N	1:c:423:GLU:OE1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:316:THR:CB	1:f:294:SER:O	2.54	0.55
1:f:439:LEU:CD2	1:g:473:ALA:CB	2.85	0.55
1:i:59:GLN:HB2	1:i:279:LEU:HA	1.88	0.55
1:i:369:VAL:CA	1:i:370:THR:CB	2.84	0.55
1:i:369:VAL:CA	1:i:370:THR:HB	2.36	0.55
1:j:86:LEU:HD21	1:j:424:PRO:HG3	1.88	0.55
1:j:369:VAL:CA	1:j:370:THR:CB	2.84	0.55
1:k:277:ARG:NH2	1:k:344:VAL:HG13	2.11	0.55
1:k:419:LYS:HE3	1:k:419:LYS:H	1.72	0.55
1:l:257:VAL:CB	1:l:267:SER:HB3	2.32	0.55
1:a:460:ASP:O	1:l:483:LEU:N	2.35	0.55
1:b:30:ARG:O	1:b:34:CYS:SG	2.65	0.55
1:c:370:THR:OG1	1:d:373:GLU:OE1	2.12	0.55
1:d:128:VAL:HG11	1:e:390:SER:O	2.06	0.55
1:d:354:PHE:O	1:d:381:LEU:HD11	2.03	0.55
1:g:78:PHE:CD1	1:g:78:PHE:N	2.72	0.55
1:h:86:LEU:HD21	1:h:424:PRO:HG3	1.88	0.55
1:i:107:ASP:HA	1:i:110:LEU:HG	1.88	0.55
1:j:359:ASN:CG	1:k:380:GLU:CB	2.80	0.55
1:l:37:TYR:N	1:l:37:TYR:CD1	2.73	0.55
1:a:227:LEU:HD23	1:a:243:THR:N	2.23	0.54
1:a:334:LYS:H	1:a:334:LYS:CD	2.09	0.54
1:a:380:GLU:OE1	1:l:359:ASN:OD1	2.24	0.54
1:b:293:SER:O	1:c:288:LYS:CA	2.54	0.54
1:c:20:LEU:CB	1:c:167:VAL:CG1	2.41	0.54
1:c:86:LEU:HD21	1:c:424:PRO:HG3	1.88	0.54
1:d:277:ARG:HG3	1:d:348:ILE:HG12	1.88	0.54
1:d:300:VAL:CA	1:d:327:ILE:CG2	2.22	0.54
1:d:331:GLN:HE21	1:e:335:GLN:HB3	1.70	0.54
1:e:370:THR:OG1	1:f:373:GLU:OE1	2.10	0.54
1:f:445:CYS:O	1:f:449:TRP:N	2.40	0.54
1:g:128:VAL:HA	1:h:390:SER:OG	2.07	0.54
1:i:254:ILE:C	1:i:395:GLU:HG3	2.31	0.54
1:i:359:ASN:HD22	1:j:380:GLU:HB3	1.55	0.54
1:j:86:LEU:CD1	1:j:422:VAL:HG11	2.34	0.54
1:k:30:ARG:O	1:k:34:CYS:SG	2.65	0.54
1:k:369:VAL:CA	1:k:370:THR:CB	2.85	0.54
1:k:480:GLY:HA3	1:l:465:MET:HG3	1.88	0.54
1:l:398:LEU:HB3	1:l:402:ARG:NH2	2.18	0.54
1:l:398:LEU:HG	1:l:402:ARG:HH22	1.72	0.54
1:a:128:VAL:HG11	1:b:390:SER:O	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:335:GLN:H	1:a:335:GLN:CD	2.13	0.54
1:b:157:PRO:HG3	1:c:173:PHE:HB2	1.90	0.54
1:b:300:VAL:HA	1:b:327:ILE:HG22	0.59	0.54
1:b:419:LYS:HE3	1:b:419:LYS:H	1.72	0.54
1:c:227:LEU:HD23	1:c:243:THR:N	2.23	0.54
1:c:480:GLY:HA3	1:d:465:MET:HG3	1.87	0.54
1:d:126:TYR:CE1	1:d:158:MET:SD	2.98	0.54
1:e:244:TYR:CB	1:e:249:CYS:O	2.53	0.54
1:f:148:PRO:HG3	1:f:156:ASN:ND2	2.20	0.54
1:g:86:LEU:CD2	1:g:424:PRO:CG	2.81	0.54
1:g:166:TYR:C	1:g:166:TYR:CD1	2.85	0.54
1:h:148:PRO:HG3	1:h:156:ASN:ND2	2.20	0.54
1:i:445:CYS:O	1:i:449:TRP:N	2.40	0.54
1:j:107:ASP:HA	1:j:110:LEU:HG	1.88	0.54
1:l:29:THR:C	1:l:31:ALA:N	2.62	0.54
1:l:166:TYR:CD1	1:l:166:TYR:C	2.85	0.54
1:a:29:THR:C	1:a:31:ALA:N	2.62	0.54
1:a:439:LEU:CD2	1:b:473:ALA:CB	2.84	0.54
1:d:166:TYR:C	1:d:166:TYR:CD1	2.85	0.54
1:e:227:LEU:HD23	1:e:243:THR:N	2.23	0.54
1:e:258:ARG:HH12	1:e:391:ILE:CD1	2.14	0.54
1:g:65:GLY:HA3	1:g:356:PHE:CD2	2.43	0.54
1:g:227:LEU:HD23	1:g:243:THR:N	2.23	0.54
1:i:449:TRP:HB3	1:j:455:MET:SD	2.47	0.54
1:j:277:ARG:NH2	1:j:344:VAL:HG13	2.11	0.54
1:j:354:PHE:O	1:j:381:LEU:HD11	2.03	0.54
1:k:128:VAL:HA	1:l:390:SER:OG	2.05	0.54
1:k:300:VAL:HA	1:k:327:ILE:HG22	0.59	0.54
1:k:439:LEU:HD13	1:k:439:LEU:O	2.06	0.54
1:l:159:LYS:NZ	1:l:183:ASP:OD2	2.35	0.54
1:l:248:ALA:HB1	1:l:406:LYS:CD	2.31	0.54
1:l:300:VAL:HB	1:l:327:ILE:HG21	1.82	0.54
1:b:65:GLY:HA3	1:b:356:PHE:CD2	2.43	0.54
1:b:300:VAL:HB	1:b:327:ILE:HG21	1.82	0.54
1:b:354:PHE:O	1:b:357:MET:HE1	2.04	0.54
1:d:29:THR:C	1:d:31:ALA:N	2.62	0.54
1:e:146:TYR:HH	1:e:251:TYR:HE2	1.55	0.54
1:f:331:GLN:HE21	1:g:335:GLN:HB3	1.69	0.54
1:f:359:ASN:OD1	1:g:380:GLU:OE1	2.06	0.54
1:h:83:TRP:NE1	1:h:118:MET:HE1	2.17	0.54
1:h:397:GLN:CB	1:h:426:ILE:HG12	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:423:GLU:OE1	1:h:423:GLU:N	2.39	0.54
1:i:277:ARG:CD	1:i:348:ILE:CG1	2.54	0.54
1:i:419:LYS:HE3	1:i:419:LYS:H	1.72	0.54
1:j:17:TYR:HE2	1:j:182:ARG:HD2	1.60	0.54
1:j:147:LEU:CG	1:j:407:GLN:NE2	2.69	0.54
1:j:449:TRP:HB3	1:k:455:MET:SD	2.47	0.54
1:a:166:TYR:CD1	1:a:166:TYR:C	2.85	0.54
1:a:254:ILE:C	1:a:395:GLU:HG3	2.31	0.54
1:a:300:VAL:CA	1:a:327:ILE:CG2	2.22	0.54
1:c:80:MET:HB2	1:c:127:ARG:NH1	2.21	0.54
1:d:257:VAL:CB	1:d:267:SER:HB3	2.32	0.54
1:e:65:GLY:HA3	1:e:356:PHE:CD2	2.43	0.54
1:e:300:VAL:HA	1:e:327:ILE:HG22	0.60	0.54
1:g:148:PRO:HG3	1:g:156:ASN:ND2	2.20	0.54
1:g:244:TYR:CB	1:g:249:CYS:O	2.53	0.54
1:h:59:GLN:HB2	1:h:279:LEU:HA	1.88	0.54
1:h:445:CYS:O	1:h:449:TRP:N	2.40	0.54
1:i:83:TRP:NE1	1:i:118:MET:HE1	2.17	0.54
1:k:254:ILE:C	1:k:395:GLU:HG3	2.30	0.54
1:l:445:CYS:O	1:l:449:TRP:N	2.40	0.54
1:a:288:LYS:CA	1:l:293:SER:O	2.56	0.54
1:b:78:PHE:CE1	1:b:130:LEU:HD13	2.43	0.54
1:c:316:THR:CB	1:d:294:SER:O	2.54	0.54
1:d:30:ARG:O	1:d:34:CYS:SG	2.65	0.54
1:d:248:ALA:CB	1:d:406:LYS:CG	2.28	0.54
1:d:325:GLU:CA	1:e:299:LEU:HD13	2.37	0.54
1:e:320:VAL:CG1	1:f:297:ILE:HG23	2.29	0.54
1:e:369:VAL:C	1:e:370:THR:HG22	2.32	0.54
1:e:445:CYS:O	1:e:449:TRP:N	2.40	0.54
1:i:126:TYR:CE1	1:i:158:MET:SD	2.98	0.54
1:i:277:ARG:HG3	1:i:348:ILE:HG12	1.89	0.54
1:j:227:LEU:HD23	1:j:243:THR:N	2.23	0.54
1:j:277:ARG:HG3	1:j:348:ILE:HG12	1.88	0.54
1:k:64:ARG:O	1:k:65:GLY:C	2.51	0.54
1:k:126:TYR:CE1	1:k:158:MET:SD	2.98	0.54
1:k:244:TYR:CB	1:k:249:CYS:O	2.53	0.54
1:k:394:GLN:OE1	1:k:394:GLN:HA	2.08	0.54
1:k:398:LEU:HG	1:k:402:ARG:HH22	1.72	0.54
1:a:30:ARG:O	1:a:34:CYS:SG	2.65	0.54
1:b:445:CYS:O	1:b:449:TRP:N	2.40	0.54
1:d:142:ASN:HD22	1:d:142:ASN:N	2.01	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:394:GLN:OE1	1:d:394:GLN:HA	2.07	0.54
1:e:394:GLN:OE1	1:e:394:GLN:HA	2.07	0.54
1:e:481:ILE:CD1	1:f:466:ILE:HD13	2.13	0.54
1:f:30:ARG:O	1:f:34:CYS:SG	2.65	0.54
1:f:69:LEU:HG	1:f:73:LEU:HD21	1.87	0.54
1:g:77:LEU:CD2	1:g:78:PHE:CZ	2.86	0.54
1:h:128:VAL:HA	1:i:390:SER:OG	2.06	0.54
1:i:30:ARG:O	1:i:34:CYS:SG	2.65	0.54
1:i:78:PHE:CZ	1:i:130:LEU:HD12	2.37	0.54
1:i:370:THR:OG1	1:j:373:GLU:OE1	2.10	0.54
1:a:65:GLY:HA3	1:a:356:PHE:CD2	2.43	0.54
1:a:78:PHE:CE1	1:a:130:LEU:HD13	2.43	0.54
1:a:450:ALA:N	1:b:455:MET:HE1	2.10	0.54
1:b:335:GLN:H	1:b:335:GLN:CD	2.13	0.54
1:c:78:PHE:CZ	1:c:130:LEU:HD12	2.37	0.54
1:c:277:ARG:HH21	1:c:344:VAL:CG1	2.10	0.54
1:d:331:GLN:HE22	1:e:335:GLN:CA	2.15	0.54
1:f:406:LYS:HA	1:f:406:LYS:HZ2	1.72	0.54
1:g:30:ARG:O	1:g:34:CYS:SG	2.65	0.54
1:h:227:LEU:HD23	1:h:243:THR:N	2.23	0.54
1:h:406:LYS:HA	1:h:406:LYS:HZ2	1.69	0.54
1:h:480:GLY:HA3	1:i:465:MET:HG3	1.88	0.54
1:i:65:GLY:HA3	1:i:356:PHE:CD2	2.43	0.54
1:j:78:PHE:CZ	1:j:130:LEU:HD12	2.37	0.54
1:j:398:LEU:HB3	1:j:402:ARG:NH2	2.18	0.54
1:k:77:LEU:HD22	1:k:78:PHE:CE2	2.43	0.54
1:l:65:GLY:HA3	1:l:356:PHE:CD2	2.43	0.54
1:l:277:ARG:NH2	1:l:344:VAL:HG13	2.11	0.54
1:a:157:PRO:HG3	1:b:173:PHE:HB2	1.90	0.54
1:b:20:LEU:CB	1:b:167:VAL:CG1	2.41	0.54
1:c:65:GLY:HA3	1:c:356:PHE:CD2	2.43	0.54
1:c:247:GLU:OE1	1:c:247:GLU:N	2.41	0.54
1:c:248:ALA:CB	1:c:406:LYS:CG	2.28	0.54
1:f:39:ILE:O	1:f:42:LEU:HD23	2.08	0.54
1:g:27:TYR:CE2	1:g:263:SER:CB	2.91	0.54
1:g:423:GLU:OE1	1:g:423:GLU:N	2.39	0.54
1:h:65:GLY:HA3	1:h:356:PHE:CD2	2.43	0.54
1:h:77:LEU:CD2	1:h:78:PHE:CZ	2.86	0.54
1:h:147:LEU:HD23	1:h:147:LEU:O	2.08	0.54
1:h:450:ALA:CA	1:i:455:MET:CE	2.86	0.54
1:i:166:TYR:CD1	1:i:166:TYR:C	2.85	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:397:GLN:CB	1:i:426:ILE:HG12	2.23	0.54
1:j:77:LEU:CD2	1:j:78:PHE:CZ	2.86	0.54
1:k:450:ALA:CA	1:l:455:MET:CE	2.86	0.54
1:l:227:LEU:HD23	1:l:243:THR:N	2.23	0.54
1:l:368:ARG:C	1:l:370:THR:CA	2.81	0.54
1:l:419:LYS:HE3	1:l:419:LYS:H	1.72	0.54
1:b:77:LEU:HD22	1:b:78:PHE:CE2	2.43	0.54
1:b:241:ASP:OD1	1:b:241:ASP:N	2.41	0.54
1:b:450:ALA:CA	1:c:455:MET:CE	2.86	0.54
1:d:65:GLY:HA3	1:d:356:PHE:CD2	2.43	0.54
1:e:247:GLU:OE1	1:e:247:GLU:N	2.41	0.54
1:f:450:ALA:N	1:g:455:MET:HE1	2.12	0.54
1:g:293:SER:O	1:h:288:LYS:CA	2.56	0.54
1:h:30:ARG:O	1:h:34:CYS:SG	2.65	0.54
1:j:65:GLY:HA3	1:j:356:PHE:CD2	2.43	0.54
1:k:65:GLY:HA3	1:k:356:PHE:CD2	2.43	0.54
1:k:147:LEU:H	1:k:147:LEU:CD2	2.08	0.54
1:k:147:LEU:CG	1:k:407:GLN:NE2	2.69	0.54
1:k:227:LEU:HD23	1:k:243:THR:N	2.23	0.54
1:l:59:GLN:HB2	1:l:279:LEU:HA	1.87	0.54
1:b:29:THR:C	1:b:31:ALA:N	2.62	0.53
1:b:147:LEU:HD23	1:b:147:LEU:O	2.09	0.53
1:c:78:PHE:CE1	1:c:130:LEU:HD13	2.43	0.53
1:e:254:ILE:CD1	1:e:396:LEU:HD21	2.27	0.53
1:f:300:VAL:HA	1:f:327:ILE:HG22	0.59	0.53
1:h:300:VAL:HA	1:h:327:ILE:HG22	0.59	0.53
1:k:147:LEU:O	1:k:147:LEU:HD23	2.08	0.53
1:l:64:ARG:O	1:l:65:GLY:C	2.51	0.53
1:a:39:ILE:O	1:a:42:LEU:HD23	2.08	0.53
1:a:394:GLN:OE1	1:a:394:GLN:HA	2.07	0.53
1:a:398:LEU:N	1:a:399:PRO:HD3	2.24	0.53
1:c:166:TYR:CD1	1:c:166:TYR:C	2.85	0.53
1:c:293:SER:O	1:d:288:LYS:CA	2.55	0.53
1:c:354:PHE:O	1:c:381:LEU:HD11	2.04	0.53
1:c:394:GLN:OE1	1:c:394:GLN:HA	2.07	0.53
1:d:64:ARG:O	1:d:65:GLY:C	2.51	0.53
1:d:78:PHE:CZ	1:d:130:LEU:HD12	2.37	0.53
1:d:244:TYR:CB	1:d:249:CYS:O	2.53	0.53
1:d:480:GLY:HA3	1:e:465:MET:HG3	1.87	0.53
1:e:147:LEU:HD23	1:e:147:LEU:O	2.09	0.53
1:e:483:LEU:N	1:f:460:ASP:O	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:166:TYR:CD1	1:f:166:TYR:C	2.85	0.53
1:h:27:TYR:CE2	1:h:263:SER:CB	2.90	0.53
1:h:398:LEU:HB3	1:h:402:ARG:NH2	2.18	0.53
1:i:27:TYR:CE2	1:i:263:SER:CB	2.91	0.53
1:i:126:TYR:CE1	1:i:158:MET:CB	2.74	0.53
1:i:128:VAL:HA	1:j:390:SER:OG	2.06	0.53
1:j:30:ARG:O	1:j:34:CYS:SG	2.65	0.53
1:j:166:TYR:C	1:j:166:TYR:CD1	2.85	0.53
1:k:29:THR:C	1:k:31:ALA:N	2.62	0.53
1:k:136:GLN:O	1:k:139:VAL:N	2.39	0.53
1:k:254:ILE:HG12	1:k:395:GLU:CB	2.29	0.53
1:l:78:PHE:CE1	1:l:130:LEU:HD13	2.43	0.53
1:l:247:GLU:N	1:l:247:GLU:OE1	2.41	0.53
1:a:277:ARG:NH2	1:a:344:VAL:HG13	2.11	0.53
1:c:39:ILE:O	1:c:42:LEU:HD23	2.08	0.53
1:c:445:CYS:O	1:c:449:TRP:N	2.40	0.53
1:d:449:TRP:HB3	1:e:455:MET:SD	2.48	0.53
1:e:142:ASN:N	1:e:166:TYR:OH	2.42	0.53
1:e:241:ASP:OD1	1:e:241:ASP:N	2.41	0.53
1:f:480:GLY:HA3	1:g:465:MET:HG3	1.87	0.53
1:g:17:TYR:CG	1:g:180:VAL:HG11	2.43	0.53
1:h:39:ILE:O	1:h:42:LEU:HD23	2.08	0.53
1:h:142:ASN:N	1:h:166:TYR:OH	2.42	0.53
1:h:419:LYS:CE	1:h:419:LYS:N	2.71	0.53
1:i:394:GLN:HA	1:i:394:GLN:OE1	2.07	0.53
1:j:419:LYS:CE	1:j:419:LYS:N	2.71	0.53
1:k:293:SER:O	1:l:288:LYS:CA	2.56	0.53
1:l:147:LEU:O	1:l:147:LEU:HD23	2.09	0.53
1:l:398:LEU:N	1:l:399:PRO:HD3	2.24	0.53
1:a:36:GLN:C	1:a:37:TYR:HD1	2.17	0.53
1:b:247:GLU:OE1	1:b:247:GLU:N	2.41	0.53
1:c:77:LEU:HD22	1:c:78:PHE:CE2	2.43	0.53
1:c:157:PRO:HG3	1:d:173:PHE:HB2	1.91	0.53
1:d:254:ILE:HG12	1:d:395:GLU:CB	2.29	0.53
1:d:419:LYS:HE3	1:d:419:LYS:H	1.73	0.53
1:f:65:GLY:HA3	1:f:356:PHE:CD2	2.43	0.53
1:f:86:LEU:CD2	1:f:424:PRO:CG	2.81	0.53
1:g:83:TRP:NE1	1:g:118:MET:HE1	2.17	0.53
1:g:147:LEU:HD23	1:g:147:LEU:O	2.08	0.53
1:g:157:PRO:HG3	1:h:173:PHE:HB2	1.91	0.53
1:g:338:PHE:N	1:g:338:PHE:CD1	2.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:20:LEU:CB	1:h:167:VAL:CG1	2.41	0.53
1:h:166:TYR:CD1	1:h:166:TYR:C	2.85	0.53
1:h:277:ARG:NH2	1:h:344:VAL:HG13	2.11	0.53
1:j:36:GLN:C	1:j:37:TYR:HD1	2.17	0.53
1:j:39:ILE:O	1:j:42:LEU:HD23	2.09	0.53
1:k:142:ASN:HD22	1:k:142:ASN:N	2.01	0.53
1:k:398:LEU:N	1:k:399:PRO:HD3	2.24	0.53
1:k:445:CYS:O	1:k:449:TRP:N	2.40	0.53
1:k:476:ILE:HG13	1:l:469:ARG:NH1	2.24	0.53
1:l:77:LEU:HD22	1:l:78:PHE:CE2	2.43	0.53
1:l:419:LYS:CE	1:l:419:LYS:N	2.71	0.53
1:a:59:GLN:HB2	1:a:279:LEU:HA	1.87	0.53
1:a:247:GLU:N	1:a:247:GLU:OE1	2.41	0.53
1:b:227:LEU:HD23	1:b:243:THR:N	2.23	0.53
1:c:300:VAL:HA	1:c:327:ILE:HG22	0.59	0.53
1:d:39:ILE:O	1:d:42:LEU:HD23	2.08	0.53
1:e:64:ARG:O	1:e:65:GLY:C	2.51	0.53
1:e:159:LYS:CE	1:e:161:TYR:CE1	2.88	0.53
1:e:449:TRP:HB2	1:f:455:MET:HE1	1.81	0.53
1:e:483:LEU:HG	1:f:462:ASN:HB2	1.91	0.53
1:f:83:TRP:NE1	1:f:118:MET:HE1	2.17	0.53
1:f:227:LEU:HD23	1:f:243:THR:N	2.23	0.53
1:f:254:ILE:C	1:f:395:GLU:HG3	2.30	0.53
1:h:142:ASN:HD22	1:h:142:ASN:N	2.01	0.53
1:i:142:ASN:N	1:i:166:TYR:OH	2.42	0.53
1:i:157:PRO:HG3	1:j:173:PHE:HB2	1.90	0.53
1:j:408:LEU:O	1:j:414:ILE:HD13	2.09	0.53
1:l:39:ILE:O	1:l:42:LEU:HD23	2.09	0.53
1:l:142:ASN:N	1:l:166:TYR:OH	2.42	0.53
1:l:254:ILE:HG12	1:l:395:GLU:CB	2.29	0.53
1:a:69:LEU:HG	1:a:73:LEU:HD21	1.87	0.53
1:a:408:LEU:O	1:a:414:ILE:HD13	2.09	0.53
1:b:36:GLN:C	1:b:37:TYR:HD1	2.17	0.53
1:b:398:LEU:N	1:b:399:PRO:HD3	2.24	0.53
1:d:227:LEU:HD23	1:d:243:THR:N	2.23	0.53
1:f:446:VAL:CG2	1:g:452:LEU:HD23	2.32	0.53
1:h:331:GLN:HE21	1:i:335:GLN:HB3	1.65	0.53
1:i:227:LEU:HD23	1:i:243:THR:N	2.23	0.53
1:i:300:VAL:HA	1:i:327:ILE:HG22	0.59	0.53
1:j:37:TYR:N	1:j:37:TYR:HD1	2.07	0.53
1:j:398:LEU:N	1:j:399:PRO:HD3	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:37:TYR:N	1:k:37:TYR:HD1	2.07	0.53
1:k:142:ASN:N	1:k:166:TYR:OH	2.42	0.53
1:l:394:GLN:OE1	1:l:394:GLN:HA	2.08	0.53
1:a:173:PHE:HB2	1:l:157:PRO:HG3	1.91	0.53
1:a:244:TYR:HE2	1:a:250:PRO:HD2	1.71	0.53
1:b:17:TYR:HE2	1:b:182:ARG:HD3	1.60	0.53
1:b:17:TYR:HE2	1:b:182:ARG:HD2	1.61	0.53
1:b:39:ILE:O	1:b:42:LEU:HD23	2.08	0.53
1:b:126:TYR:CE1	1:b:158:MET:CB	2.74	0.53
1:b:136:GLN:O	1:b:139:VAL:N	2.39	0.53
1:b:162:ARG:NH1	1:c:259:LEU:HD22	2.21	0.53
1:c:147:LEU:O	1:c:147:LEU:HD23	2.08	0.53
1:c:244:TYR:HE2	1:c:250:PRO:HD2	1.71	0.53
1:c:398:LEU:N	1:c:399:PRO:HD3	2.24	0.53
1:d:142:ASN:N	1:d:166:TYR:OH	2.42	0.53
1:d:354:PHE:O	1:d:357:MET:HE3	2.02	0.53
1:d:439:LEU:CD2	1:e:473:ALA:CB	2.85	0.53
1:e:311:LEU:HD22	1:f:297:ILE:HD13	1.90	0.53
1:f:254:ILE:CD1	1:f:396:LEU:HD21	2.27	0.53
1:f:394:GLN:OE1	1:f:394:GLN:HA	2.08	0.53
1:f:419:LYS:HE3	1:f:419:LYS:H	1.72	0.53
1:g:59:GLN:HB2	1:g:279:LEU:HA	1.88	0.53
1:g:254:ILE:C	1:g:395:GLU:HG3	2.30	0.53
1:g:450:ALA:CA	1:h:455:MET:CE	2.86	0.53
1:h:159:LYS:HB2	1:i:173:PHE:CD1	2.44	0.53
1:h:309:ARG:CG	1:h:309:ARG:NH1	2.72	0.53
1:j:126:TYR:CE1	1:j:158:MET:SD	2.98	0.53
1:j:398:LEU:HG	1:j:402:ARG:HH22	1.72	0.53
1:k:17:TYR:CG	1:k:180:VAL:HG11	2.43	0.53
1:k:39:ILE:O	1:k:42:LEU:HD23	2.08	0.53
1:k:78:PHE:CE1	1:k:130:LEU:HD13	2.43	0.53
1:k:408:LEU:O	1:k:414:ILE:HD13	2.09	0.53
1:l:334:LYS:H	1:l:334:LYS:CD	2.09	0.53
1:a:241:ASP:N	1:a:241:ASP:OD1	2.41	0.53
1:b:277:ARG:HG3	1:b:348:ILE:HG12	1.88	0.53
1:c:408:LEU:O	1:c:414:ILE:HD13	2.09	0.53
1:d:254:ILE:CD1	1:d:396:LEU:HD21	2.27	0.53
1:e:337:ASP:OD1	1:f:340:VAL:HG21	2.09	0.53
1:f:78:PHE:CE1	1:f:130:LEU:HD13	2.43	0.53
1:f:258:ARG:HH12	1:f:391:ILE:CD1	2.14	0.53
1:g:247:GLU:OE1	1:g:247:GLU:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:408:LEU:O	1:h:414:ILE:HD13	2.09	0.53
1:j:383:ASP:O	1:j:385:LEU:N	2.42	0.53
1:j:397:GLN:HG2	1:j:426:ILE:HG21	1.85	0.53
1:k:36:GLN:C	1:k:37:TYR:HD1	2.17	0.53
1:k:159:LYS:NZ	1:k:183:ASP:OD2	2.35	0.53
1:l:136:GLN:O	1:l:139:VAL:N	2.39	0.53
1:l:147:LEU:CG	1:l:407:GLN:NE2	2.69	0.53
1:a:166:TYR:HD1	1:a:166:TYR:C	2.17	0.53
1:c:335:GLN:H	1:c:335:GLN:CD	2.13	0.53
1:d:36:GLN:C	1:d:37:TYR:HD1	2.17	0.53
1:d:140:ALA:CB	1:d:267:SER:H	2.17	0.53
1:d:147:LEU:O	1:d:147:LEU:HD23	2.08	0.53
1:d:445:CYS:O	1:d:449:TRP:N	2.40	0.53
1:f:64:ARG:O	1:f:65:GLY:C	2.51	0.53
1:f:147:LEU:O	1:f:147:LEU:HD23	2.08	0.53
1:g:39:ILE:O	1:g:42:LEU:HD23	2.08	0.53
1:g:78:PHE:CE1	1:g:130:LEU:HD13	2.43	0.53
1:g:251:TYR:HD1	1:g:251:TYR:O	1.92	0.53
1:g:419:LYS:HE3	1:g:419:LYS:H	1.72	0.53
1:g:483:LEU:N	1:h:460:ASP:O	2.36	0.53
1:h:251:TYR:O	1:h:251:TYR:HD1	1.92	0.53
1:i:36:GLN:C	1:i:37:TYR:HD1	2.17	0.53
1:i:146:TYR:OH	1:i:251:TYR:HE2	1.92	0.53
1:i:147:LEU:O	1:i:147:LEU:HD23	2.09	0.53
1:j:27:TYR:CE2	1:j:263:SER:CB	2.90	0.53
1:j:247:GLU:OE1	1:j:247:GLU:N	2.41	0.53
1:k:383:ASP:O	1:k:385:LEU:N	2.42	0.53
1:k:439:LEU:HD23	1:l:474:ILE:CD1	2.39	0.53
1:l:383:ASP:O	1:l:385:LEU:N	2.42	0.53
1:a:173:PHE:CD1	1:l:159:LYS:HB2	2.44	0.53
1:c:277:ARG:HG3	1:c:348:ILE:HG12	1.88	0.53
1:d:398:LEU:N	1:d:399:PRO:HD3	2.24	0.53
1:f:327:ILE:HD12	1:f:327:ILE:O	2.09	0.53
1:g:126:TYR:CE1	1:g:158:MET:CB	2.75	0.53
1:g:445:CYS:O	1:g:449:TRP:N	2.40	0.53
1:h:157:PRO:HG3	1:i:173:PHE:HB2	1.91	0.53
1:h:277:ARG:HG3	1:h:348:ILE:HG12	1.88	0.53
1:h:394:GLN:OE1	1:h:394:GLN:HA	2.07	0.53
1:h:398:LEU:N	1:h:399:PRO:HD3	2.24	0.53
1:i:17:TYR:CG	1:i:180:VAL:HG11	2.43	0.53
1:i:39:ILE:O	1:i:42:LEU:HD23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:241:ASP:N	1:i:241:ASP:OD1	2.41	0.53
1:i:251:TYR:O	1:i:251:TYR:HD1	1.92	0.53
1:i:398:LEU:N	1:i:399:PRO:HD3	2.24	0.53
1:i:408:LEU:O	1:i:414:ILE:HD13	2.09	0.53
1:j:72:LYS:HB2	1:j:72:LYS:NZ	2.24	0.53
1:j:147:LEU:HD23	1:j:147:LEU:O	2.08	0.53
1:j:442:LEU:CD2	1:j:476:ILE:CG2	2.77	0.53
1:k:17:TYR:HE2	1:k:182:ARG:HD2	1.61	0.53
1:l:27:TYR:CE2	1:l:263:SER:CB	2.90	0.53
1:l:408:LEU:O	1:l:414:ILE:HD13	2.09	0.53
1:a:126:TYR:C	1:a:129:THR:HG23	2.34	0.52
1:a:147:LEU:O	1:a:147:LEU:HD23	2.09	0.52
1:a:257:VAL:CB	1:a:267:SER:HB3	2.32	0.52
1:a:260:ASP:CB	1:l:162:ARG:CD	2.75	0.52
1:a:290:SER:O	1:b:284:GLU:HG3	2.03	0.52
1:a:445:CYS:O	1:a:449:TRP:N	2.40	0.52
1:b:78:PHE:CZ	1:b:130:LEU:HD12	2.36	0.52
1:b:126:TYR:C	1:b:129:THR:HG23	2.34	0.52
1:c:327:ILE:HD12	1:c:327:ILE:O	2.10	0.52
1:e:30:ARG:O	1:e:34:CYS:SG	2.65	0.52
1:e:277:ARG:HG3	1:e:348:ILE:HG12	1.88	0.52
1:e:398:LEU:N	1:e:399:PRO:HD3	2.24	0.52
1:f:36:GLN:NE2	1:f:36:GLN:CA	2.72	0.52
1:f:142:ASN:N	1:f:166:TYR:OH	2.42	0.52
1:g:142:ASN:N	1:g:166:TYR:OH	2.42	0.52
1:h:78:PHE:CE1	1:h:130:LEU:HD13	2.43	0.52
1:h:320:VAL:CG1	1:i:297:ILE:HG23	2.30	0.52
1:h:327:ILE:HD12	1:h:327:ILE:O	2.09	0.52
1:i:37:TYR:N	1:i:37:TYR:HD1	2.07	0.52
1:i:247:GLU:N	1:i:247:GLU:OE1	2.41	0.52
1:i:293:SER:O	1:j:288:LYS:CA	2.57	0.52
1:i:383:ASP:O	1:i:385:LEU:N	2.42	0.52
1:j:83:TRP:NE1	1:j:118:MET:HE1	2.17	0.52
1:j:251:TYR:O	1:j:251:TYR:HD1	1.92	0.52
1:j:445:CYS:O	1:j:449:TRP:N	2.40	0.52
1:k:59:GLN:HB2	1:k:279:LEU:HA	1.88	0.52
1:k:331:GLN:HE21	1:l:335:GLN:HB3	1.66	0.52
1:l:36:GLN:C	1:l:37:TYR:HD1	2.17	0.52
1:l:37:TYR:N	1:l:37:TYR:HD1	2.07	0.52
1:a:27:TYR:CE2	1:a:263:SER:CB	2.90	0.52
1:a:64:ARG:O	1:a:65:GLY:C	2.51	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:142:ASN:N	1:a:166:TYR:OH	2.42	0.52
1:a:244:TYR:CB	1:a:249:CYS:O	2.53	0.52
1:a:327:ILE:HD12	1:a:327:ILE:O	2.09	0.52
1:a:383:ASP:O	1:a:385:LEU:N	2.42	0.52
1:b:311:LEU:HD22	1:c:297:ILE:HD13	1.92	0.52
1:b:394:GLN:OE1	1:b:394:GLN:HA	2.07	0.52
1:c:27:TYR:CE2	1:c:263:SER:CB	2.90	0.52
1:c:309:ARG:CG	1:c:309:ARG:NH1	2.72	0.52
1:d:36:GLN:NE2	1:d:36:GLN:CA	2.73	0.52
1:d:359:ASN:CG	1:e:380:GLU:CB	2.80	0.52
1:d:408:LEU:O	1:d:414:ILE:HD13	2.09	0.52
1:e:36:GLN:C	1:e:37:TYR:HD1	2.17	0.52
1:f:417:LEU:N	1:f:417:LEU:CD2	2.72	0.52
1:f:449:TRP:HB3	1:g:455:MET:SD	2.49	0.52
1:g:394:GLN:OE1	1:g:394:GLN:HA	2.08	0.52
1:g:398:LEU:N	1:g:399:PRO:HD3	2.24	0.52
1:h:61:VAL:HB	1:i:351:ARG:CD	2.39	0.52
1:h:247:GLU:OE1	1:h:247:GLU:N	2.41	0.52
1:i:77:LEU:HD22	1:i:78:PHE:CE2	2.43	0.52
1:i:257:VAL:CB	1:i:267:SER:HB3	2.32	0.52
1:k:27:TYR:CE2	1:k:263:SER:CB	2.91	0.52
1:k:162:ARG:CD	1:l:260:ASP:CB	2.75	0.52
1:k:247:GLU:OE1	1:k:247:GLU:N	2.41	0.52
1:l:126:TYR:C	1:l:129:THR:HG23	2.34	0.52
1:a:17:TYR:CG	1:a:180:VAL:HG11	2.43	0.52
1:a:80:MET:CB	1:a:127:ARG:NH2	2.73	0.52
1:a:147:LEU:CG	1:a:407:GLN:NE2	2.69	0.52
1:b:27:TYR:CE2	1:b:263:SER:CB	2.90	0.52
1:b:36:GLN:NE2	1:b:36:GLN:CA	2.73	0.52
1:c:80:MET:CB	1:c:127:ARG:NH2	2.73	0.52
1:c:126:TYR:C	1:c:129:THR:HG23	2.34	0.52
1:d:254:ILE:C	1:d:395:GLU:HG3	2.31	0.52
1:d:417:LEU:N	1:d:417:LEU:CD2	2.73	0.52
1:e:80:MET:CB	1:e:127:ARG:NH2	2.73	0.52
1:e:157:PRO:HG3	1:f:173:PHE:HB2	1.92	0.52
1:e:417:LEU:CD2	1:e:417:LEU:N	2.73	0.52
1:e:439:LEU:HD23	1:f:474:ILE:CD1	2.38	0.52
1:e:476:ILE:CG1	1:f:469:ARG:NH1	2.72	0.52
1:f:36:GLN:C	1:f:37:TYR:HD1	2.17	0.52
1:f:251:TYR:O	1:f:251:TYR:HD1	1.92	0.52
1:f:398:LEU:N	1:f:399:PRO:HD3	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:358:LEU:CD2	1:g:358:LEU:N	2.73	0.52
1:h:417:LEU:CD2	1:h:417:LEU:N	2.73	0.52
1:h:483:LEU:HG	1:i:462:ASN:HB2	1.91	0.52
1:i:288:LYS:HE2	1:i:335:GLN:HB2	1.92	0.52
1:i:327:ILE:HD12	1:i:327:ILE:O	2.09	0.52
1:i:417:LEU:N	1:i:417:LEU:CD2	2.73	0.52
1:j:244:TYR:CB	1:j:249:CYS:O	2.53	0.52
1:j:419:LYS:HE3	1:j:419:LYS:H	1.72	0.52
1:k:32:GLN:NE2	1:k:32:GLN:CA	2.72	0.52
1:k:327:ILE:HD12	1:k:327:ILE:O	2.09	0.52
1:k:419:LYS:CE	1:k:419:LYS:N	2.72	0.52
1:a:136:GLN:O	1:a:139:VAL:N	2.39	0.52
1:a:179:MET:HE2	1:a:253:PRO:HD3	1.92	0.52
1:b:480:GLY:HA3	1:c:465:MET:HG3	1.88	0.52
1:b:480:GLY:C	1:c:465:MET:HG2	2.31	0.52
1:d:27:TYR:CE2	1:d:263:SER:CB	2.90	0.52
1:d:80:MET:CB	1:d:127:ARG:NH2	2.73	0.52
1:d:247:GLU:N	1:d:247:GLU:OE1	2.41	0.52
1:e:78:PHE:CE1	1:e:130:LEU:HD13	2.43	0.52
1:e:146:TYR:OH	1:e:251:TYR:HE2	1.92	0.52
1:f:144:LEU:N	1:f:144:LEU:CD2	2.73	0.52
1:i:61:VAL:HB	1:j:351:ARG:CD	2.39	0.52
1:j:417:LEU:CD2	1:j:417:LEU:N	2.73	0.52
1:k:159:LYS:HB2	1:l:173:PHE:CD1	2.44	0.52
1:l:32:GLN:NE2	1:l:32:GLN:CA	2.72	0.52
1:l:166:TYR:HD1	1:l:166:TYR:C	2.18	0.52
1:l:244:TYR:HE2	1:l:250:PRO:HD2	1.71	0.52
1:l:277:ARG:HG3	1:l:348:ILE:HG12	1.89	0.52
1:b:80:MET:CB	1:b:127:ARG:NH2	2.73	0.52
1:b:166:TYR:HD1	1:b:166:TYR:C	2.18	0.52
1:b:244:TYR:CB	1:b:249:CYS:O	2.53	0.52
1:b:337:ASP:OD1	1:c:340:VAL:HG21	2.10	0.52
1:c:29:THR:C	1:c:31:ALA:N	2.62	0.52
1:c:142:ASN:N	1:c:166:TYR:OH	2.42	0.52
1:c:320:VAL:CG1	1:d:297:ILE:HG23	2.32	0.52
1:d:254:ILE:HG23	1:d:395:GLU:CB	2.40	0.52
1:e:166:TYR:HD1	1:e:166:TYR:C	2.17	0.52
1:e:254:ILE:HG12	1:e:395:GLU:CB	2.29	0.52
1:e:254:ILE:C	1:e:395:GLU:HG3	2.30	0.52
1:e:358:LEU:CD2	1:e:358:LEU:N	2.72	0.52
1:e:408:LEU:O	1:e:414:ILE:HD13	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:72:LYS:HB2	1:f:72:LYS:NZ	2.24	0.52
1:f:358:LEU:CD2	1:f:358:LEU:N	2.73	0.52
1:g:36:GLN:NE2	1:g:36:GLN:CA	2.73	0.52
1:g:417:LEU:N	1:g:417:LEU:CD2	2.73	0.52
1:i:72:LYS:HB2	1:i:72:LYS:NZ	2.24	0.52
1:i:72:LYS:NZ	1:i:72:LYS:CB	2.73	0.52
1:j:29:THR:C	1:j:31:ALA:N	2.62	0.52
1:j:32:GLN:NE2	1:j:32:GLN:CA	2.72	0.52
1:j:394:GLN:OE1	1:j:394:GLN:HA	2.07	0.52
1:k:251:TYR:O	1:k:251:TYR:HD1	1.92	0.52
1:l:251:TYR:HD1	1:l:251:TYR:O	1.92	0.52
1:a:254:ILE:HG23	1:a:395:GLU:CB	2.40	0.52
1:b:179:MET:HE2	1:b:253:PRO:HD3	1.92	0.52
1:b:383:ASP:O	1:b:385:LEU:N	2.42	0.52
1:c:254:ILE:C	1:c:395:GLU:HG3	2.30	0.52
1:d:241:ASP:N	1:d:241:ASP:OD1	2.41	0.52
1:d:327:ILE:HD12	1:d:327:ILE:O	2.09	0.52
1:d:439:LEU:CB	1:e:473:ALA:HB1	2.39	0.52
1:e:39:ILE:O	1:e:42:LEU:HD23	2.08	0.52
1:e:77:LEU:CD2	1:e:78:PHE:CZ	2.86	0.52
1:e:83:TRP:NE1	1:e:118:MET:HE1	2.17	0.52
1:e:159:LYS:HB2	1:f:173:PHE:CD1	2.43	0.52
1:e:166:TYR:C	1:e:166:TYR:CD1	2.85	0.52
1:e:254:ILE:HG23	1:e:395:GLU:CB	2.40	0.52
1:e:476:ILE:HG13	1:f:469:ARG:NH1	2.23	0.52
1:f:146:TYR:OH	1:f:251:TYR:HE2	1.92	0.52
1:f:247:GLU:N	1:f:247:GLU:OE1	2.41	0.52
1:g:64:ARG:O	1:g:65:GLY:C	2.51	0.52
1:g:327:ILE:HD12	1:g:327:ILE:O	2.09	0.52
1:h:36:GLN:NE2	1:h:36:GLN:CA	2.73	0.52
1:i:162:ARG:NH1	1:j:259:LEU:HD22	2.20	0.52
1:i:358:LEU:CD2	1:i:358:LEU:N	2.73	0.52
1:j:72:LYS:NZ	1:j:72:LYS:CB	2.73	0.52
1:j:136:GLN:O	1:j:139:VAL:N	2.39	0.52
1:j:146:TYR:OH	1:j:251:TYR:HE2	1.93	0.52
1:j:385:LEU:C	1:j:388:VAL:CG2	2.80	0.52
1:k:80:MET:CB	1:k:127:ARG:NH2	2.73	0.52
1:k:126:TYR:C	1:k:129:THR:HG23	2.34	0.52
1:k:277:ARG:HG3	1:k:348:ILE:HG12	1.89	0.52
1:l:80:MET:CB	1:l:127:ARG:NH2	2.73	0.52
1:l:463:LEU:N	1:l:463:LEU:CD2	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:463:LEU:N	1:a:463:LEU:CD2	2.73	0.52
1:b:358:LEU:CD2	1:b:358:LEU:N	2.72	0.52
1:b:417:LEU:CD2	1:b:417:LEU:N	2.72	0.52
1:c:251:TYR:O	1:c:251:TYR:HD1	1.92	0.52
1:c:417:LEU:CD2	1:c:417:LEU:N	2.73	0.52
1:e:27:TYR:CE2	1:e:263:SER:CB	2.90	0.52
1:f:408:LEU:O	1:f:414:ILE:HD13	2.09	0.52
1:f:439:LEU:CB	1:g:473:ALA:HB1	2.39	0.52
1:g:254:ILE:CD1	1:g:396:LEU:HD21	2.27	0.52
1:h:227:LEU:HD23	1:h:242:GLY:C	2.35	0.52
1:h:383:ASP:O	1:h:385:LEU:N	2.42	0.52
1:h:439:LEU:HD23	1:i:474:ILE:CD1	2.39	0.52
1:h:481:ILE:HG13	1:i:461:ILE:HG21	1.92	0.52
1:i:36:GLN:NE2	1:i:36:GLN:CA	2.73	0.52
1:i:78:PHE:CE1	1:i:130:LEU:HD13	2.43	0.52
1:j:78:PHE:CE1	1:j:130:LEU:HD13	2.43	0.52
1:j:80:MET:CB	1:j:127:ARG:NH2	2.73	0.52
1:j:142:ASN:N	1:j:166:TYR:OH	2.42	0.52
1:k:227:LEU:HD23	1:k:242:GLY:C	2.35	0.52
1:k:362:VAL:O	1:k:362:VAL:HG12	2.10	0.52
1:k:417:LEU:CD2	1:k:417:LEU:N	2.73	0.52
1:k:463:LEU:N	1:k:463:LEU:CD2	2.73	0.52
1:a:32:GLN:NE2	1:a:32:GLN:CA	2.72	0.52
1:a:37:TYR:N	1:a:37:TYR:HD1	2.07	0.52
1:a:455:MET:CE	1:l:450:ALA:CA	2.88	0.52
1:c:36:GLN:NE2	1:c:36:GLN:CA	2.73	0.52
1:c:254:ILE:HG23	1:c:395:GLU:CB	2.40	0.52
1:d:78:PHE:CE1	1:d:130:LEU:HD13	2.43	0.52
1:e:147:LEU:CG	1:e:407:GLN:NE2	2.69	0.52
1:e:327:ILE:HD12	1:e:327:ILE:O	2.09	0.52
1:f:68:ASN:ND2	1:f:358:LEU:CD2	2.57	0.52
1:f:72:LYS:NZ	1:f:72:LYS:CB	2.73	0.52
1:f:80:MET:CB	1:f:127:ARG:NH2	2.73	0.52
1:f:309:ARG:CG	1:f:309:ARG:NH1	2.72	0.52
1:f:383:ASP:O	1:f:385:LEU:N	2.42	0.52
1:g:72:LYS:HB2	1:g:72:LYS:NZ	2.24	0.52
1:h:37:TYR:N	1:h:37:TYR:HD1	2.07	0.52
1:h:119:ASN:O	1:h:123:SER:OG	2.28	0.52
1:h:254:ILE:C	1:h:395:GLU:HG3	2.31	0.52
1:k:358:LEU:CD2	1:k:358:LEU:N	2.72	0.52
1:l:119:ASN:O	1:l:123:SER:OG	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:417:LEU:N	1:l:417:LEU:CD2	2.73	0.52
1:a:17:TYR:HE2	1:a:182:ARG:HD2	1.61	0.52
1:a:146:TYR:OH	1:a:251:TYR:HE2	1.92	0.52
1:a:277:ARG:HG3	1:a:348:ILE:HG12	1.88	0.52
1:a:371:ALA:O	1:a:375:ARG:N	2.28	0.52
1:b:20:LEU:CA	1:b:167:VAL:HG11	2.35	0.52
1:b:327:ILE:O	1:b:327:ILE:HD12	2.09	0.52
1:b:408:LEU:O	1:b:414:ILE:HD13	2.09	0.52
1:b:463:LEU:N	1:b:463:LEU:CD2	2.73	0.52
1:c:159:LYS:HB2	1:d:173:PHE:CD1	2.44	0.52
1:c:244:TYR:CB	1:c:249:CYS:O	2.53	0.52
1:c:254:ILE:CD1	1:c:396:LEU:HD21	2.27	0.52
1:c:358:LEU:CD2	1:c:358:LEU:N	2.73	0.52
1:d:126:TYR:C	1:d:129:THR:HG23	2.34	0.52
1:d:166:TYR:HD1	1:d:166:TYR:C	2.18	0.52
1:d:179:MET:HE2	1:d:253:PRO:HD3	1.92	0.52
1:d:358:LEU:CD2	1:d:358:LEU:N	2.72	0.52
1:d:442:LEU:HD13	1:d:442:LEU:C	2.35	0.52
1:e:72:LYS:NZ	1:e:72:LYS:CB	2.73	0.52
1:e:251:TYR:O	1:e:251:TYR:HD1	1.92	0.52
1:f:59:GLN:HB2	1:f:279:LEU:HA	1.87	0.52
1:g:36:GLN:C	1:g:37:TYR:HD1	2.17	0.52
1:g:383:ASP:O	1:g:385:LEU:N	2.42	0.52
1:h:72:LYS:HB2	1:h:72:LYS:NZ	2.24	0.52
1:h:72:LYS:NZ	1:h:72:LYS:CB	2.73	0.52
1:h:86:LEU:HA	1:h:424:PRO:HB3	1.92	0.52
1:h:241:ASP:OD1	1:h:241:ASP:N	2.41	0.52
1:h:483:LEU:N	1:i:460:ASP:O	2.37	0.52
1:i:86:LEU:HA	1:i:424:PRO:HB3	1.92	0.52
1:k:337:ASP:OD1	1:l:340:VAL:HG21	2.10	0.52
1:l:17:TYR:HE2	1:l:182:ARG:HD2	1.61	0.52
1:l:72:LYS:CB	1:l:72:LYS:NZ	2.73	0.52
1:l:77:LEU:CD2	1:l:78:PHE:CZ	2.86	0.52
1:a:417:LEU:N	1:a:417:LEU:CD2	2.73	0.52
1:a:419:LYS:CE	1:a:419:LYS:N	2.72	0.52
1:b:142:ASN:N	1:b:166:TYR:OH	2.42	0.52
1:b:146:TYR:OH	1:b:251:TYR:HE2	1.92	0.52
1:b:254:ILE:HG12	1:b:395:GLU:CB	2.29	0.52
1:c:36:GLN:C	1:c:37:TYR:HD1	2.17	0.52
1:c:463:LEU:N	1:c:463:LEU:CD2	2.73	0.52
1:d:37:TYR:N	1:d:37:TYR:HD1	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:77:LEU:HD22	1:d:78:PHE:CE2	2.43	0.52
1:d:335:GLN:H	1:d:335:GLN:CD	2.14	0.52
1:d:463:LEU:N	1:d:463:LEU:CD2	2.73	0.52
1:e:69:LEU:HG	1:e:73:LEU:HD21	1.87	0.52
1:e:481:ILE:HG13	1:f:461:ILE:HG21	1.92	0.52
1:f:29:THR:C	1:f:31:ALA:N	2.62	0.52
1:f:147:LEU:CG	1:f:407:GLN:NE2	2.69	0.52
1:g:159:LYS:CE	1:g:161:TYR:CE1	2.87	0.52
1:g:227:LEU:HD23	1:g:242:GLY:C	2.35	0.52
1:g:288:LYS:HE2	1:g:335:GLN:HB2	1.92	0.52
1:h:476:ILE:HG13	1:i:469:ARG:NH1	2.24	0.52
1:i:80:MET:CB	1:i:127:ARG:NH2	2.73	0.52
1:i:309:ARG:CG	1:i:309:ARG:NH1	2.72	0.52
1:i:398:LEU:HG	1:i:402:ARG:HH22	1.72	0.52
1:j:126:TYR:C	1:j:129:THR:HG23	2.34	0.52
1:j:327:ILE:O	1:j:327:ILE:HD12	2.09	0.52
1:j:463:LEU:N	1:j:463:LEU:CD2	2.73	0.52
1:k:83:TRP:NE1	1:k:118:MET:HE1	2.17	0.52
1:k:179:MET:HE2	1:k:253:PRO:HD3	1.92	0.52
1:l:146:TYR:OH	1:l:251:TYR:HE2	1.93	0.52
1:a:227:LEU:HD23	1:a:242:GLY:C	2.35	0.51
1:a:257:VAL:HG21	1:a:267:SER:CA	2.40	0.51
1:a:309:ARG:CG	1:a:309:ARG:NH1	2.72	0.51
1:a:474:ILE:CD1	1:l:439:LEU:HD23	2.40	0.51
1:b:227:LEU:HD23	1:b:242:GLY:C	2.35	0.51
1:b:331:GLN:HE21	1:c:335:GLN:CB	2.20	0.51
1:c:20:LEU:CA	1:c:167:VAL:HG11	2.35	0.51
1:c:442:LEU:HD13	1:c:442:LEU:C	2.35	0.51
1:d:72:LYS:CB	1:d:72:LYS:NZ	2.73	0.51
1:d:244:TYR:HE2	1:d:250:PRO:HD2	1.71	0.51
1:e:37:TYR:N	1:e:37:TYR:HD1	2.07	0.51
1:e:140:ALA:CB	1:e:267:SER:H	2.17	0.51
1:e:419:LYS:HE3	1:e:419:LYS:H	1.72	0.51
1:e:446:VAL:HG23	1:f:452:LEU:HD21	1.73	0.51
1:e:463:LEU:N	1:e:463:LEU:CD2	2.73	0.51
1:f:254:ILE:HG23	1:f:395:GLU:CB	2.40	0.51
1:f:257:VAL:CB	1:f:267:SER:HB3	2.32	0.51
1:g:80:MET:CB	1:g:127:ARG:NH2	2.73	0.51
1:g:159:LYS:HB2	1:h:173:PHE:CD1	2.45	0.51
1:g:277:ARG:NH2	1:g:344:VAL:HG13	2.11	0.51
1:g:337:ASP:OD1	1:h:340:VAL:HG21	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:254:ILE:HG12	1:h:395:GLU:CB	2.29	0.51
1:h:293:SER:O	1:i:288:LYS:CA	2.55	0.51
1:i:166:TYR:HD1	1:i:166:TYR:C	2.17	0.51
1:j:288:LYS:HE2	1:j:335:GLN:HB2	1.92	0.51
1:j:358:LEU:CD2	1:j:358:LEU:N	2.73	0.51
1:k:61:VAL:HB	1:l:351:ARG:CD	2.40	0.51
1:k:146:TYR:OH	1:k:251:TYR:HE2	1.92	0.51
1:k:254:ILE:HG23	1:k:395:GLU:CB	2.40	0.51
1:k:309:ARG:CG	1:k:309:ARG:NH1	2.72	0.51
1:l:36:GLN:NE2	1:l:36:GLN:CA	2.73	0.51
1:l:227:LEU:HD23	1:l:242:GLY:C	2.35	0.51
1:l:288:LYS:HE2	1:l:335:GLN:HB2	1.92	0.51
1:a:72:LYS:NZ	1:a:72:LYS:CB	2.73	0.51
1:a:259:LEU:HD22	1:l:162:ARG:NH1	2.20	0.51
1:b:72:LYS:NZ	1:b:72:LYS:CB	2.73	0.51
1:b:402:ARG:CG	1:b:402:ARG:NH1	2.72	0.51
1:b:442:LEU:HD13	1:b:442:LEU:C	2.35	0.51
1:c:72:LYS:NZ	1:c:72:LYS:CB	2.73	0.51
1:c:383:ASP:O	1:c:385:LEU:N	2.42	0.51
1:c:483:LEU:HG	1:d:462:ASN:HB2	1.92	0.51
1:d:72:LYS:HB2	1:d:72:LYS:NZ	2.24	0.51
1:d:251:TYR:HD1	1:d:251:TYR:O	1.92	0.51
1:d:369:VAL:N	1:d:370:THR:CA	2.72	0.51
1:d:446:VAL:CG2	1:e:452:LEU:HD23	2.32	0.51
1:e:369:VAL:N	1:e:370:THR:CA	2.72	0.51
1:e:383:ASP:O	1:e:385:LEU:N	2.42	0.51
1:e:480:GLY:HA3	1:f:465:MET:HG3	1.89	0.51
1:f:27:TYR:CE2	1:f:263:SER:CB	2.90	0.51
1:f:248:ALA:HB1	1:f:406:LYS:CD	2.31	0.51
1:f:463:LEU:N	1:f:463:LEU:CD2	2.73	0.51
1:g:408:LEU:O	1:g:414:ILE:HD13	2.09	0.51
1:g:439:LEU:HD23	1:h:474:ILE:CD1	2.39	0.51
1:h:36:GLN:C	1:h:37:TYR:HD1	2.17	0.51
1:h:288:LYS:HE2	1:h:335:GLN:HB2	1.91	0.51
1:i:126:TYR:HE1	1:i:158:MET:CG	2.24	0.51
1:i:159:LYS:HB2	1:j:173:PHE:CD1	2.45	0.51
1:j:227:LEU:HD23	1:j:242:GLY:C	2.35	0.51
1:j:449:TRP:HB2	1:k:455:MET:HE1	1.81	0.51
1:k:119:ASN:O	1:k:123:SER:OG	2.28	0.51
1:k:162:ARG:NH1	1:l:259:LEU:HD22	2.20	0.51
1:k:166:TYR:CD1	1:k:166:TYR:C	2.85	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:300:VAL:HA	1:l:327:ILE:HG22	0.59	0.51
1:b:244:TYR:HE2	1:b:250:PRO:HD2	1.71	0.51
1:b:251:TYR:O	1:b:251:TYR:HD1	1.92	0.51
1:b:254:ILE:HG23	1:b:395:GLU:CB	2.40	0.51
1:b:291:MET:C	1:b:291:MET:SD	2.94	0.51
1:b:370:THR:CG2	1:b:372:GLU:CD	2.84	0.51
1:b:476:ILE:HG13	1:c:469:ARG:NH1	2.26	0.51
1:c:146:TYR:OH	1:c:251:TYR:HE2	1.92	0.51
1:c:166:TYR:HD1	1:c:166:TYR:C	2.17	0.51
1:c:337:ASP:OD1	1:d:340:VAL:HG21	2.11	0.51
1:c:419:LYS:HE3	1:c:419:LYS:H	1.72	0.51
1:f:166:TYR:HD1	1:f:166:TYR:C	2.18	0.51
1:f:288:LYS:HE2	1:f:335:GLN:HB2	1.92	0.51
1:g:29:THR:C	1:g:31:ALA:N	2.62	0.51
1:g:37:TYR:N	1:g:37:TYR:HD1	2.07	0.51
1:g:86:LEU:HA	1:g:424:PRO:HB3	1.92	0.51
1:g:126:TYR:HE1	1:g:158:MET:CG	2.24	0.51
1:g:179:MET:HE2	1:g:253:PRO:HD3	1.91	0.51
1:g:481:ILE:HG13	1:h:461:ILE:HG21	1.92	0.51
1:h:337:ASP:OD1	1:i:340:VAL:HG21	2.10	0.51
1:i:463:LEU:N	1:i:463:LEU:CD2	2.73	0.51
1:j:331:GLN:HE21	1:k:335:GLN:HB3	1.67	0.51
1:k:36:GLN:NE2	1:k:36:GLN:CA	2.73	0.51
1:k:54:TYR:CD2	1:k:56:THR:HG23	2.46	0.51
1:k:78:PHE:CZ	1:k:130:LEU:HD12	2.37	0.51
1:k:159:LYS:HB2	1:l:173:PHE:HD1	1.76	0.51
1:k:320:VAL:CG1	1:l:297:ILE:HG23	2.30	0.51
1:k:481:ILE:HG13	1:l:461:ILE:HG21	1.92	0.51
1:l:241:ASP:N	1:l:241:ASP:OD1	2.41	0.51
1:l:397:GLN:HG2	1:l:426:ILE:HG21	1.85	0.51
1:a:20:LEU:CA	1:a:167:VAL:HG11	2.35	0.51
1:a:119:ASN:O	1:a:123:SER:OG	2.28	0.51
1:a:173:PHE:HD1	1:l:159:LYS:HB2	1.76	0.51
1:a:248:ALA:HB1	1:a:406:LYS:CD	2.31	0.51
1:a:251:TYR:O	1:a:251:TYR:HD1	1.92	0.51
1:a:380:GLU:CD	1:l:359:ASN:CG	2.76	0.51
1:a:469:ARG:NH1	1:l:476:ILE:HG13	2.26	0.51
1:b:159:LYS:HB2	1:c:173:PHE:CD1	2.45	0.51
1:b:483:LEU:HG	1:c:462:ASN:HB2	1.92	0.51
1:c:59:GLN:HB2	1:c:279:LEU:HA	1.88	0.51
1:c:159:LYS:HB2	1:d:173:PHE:HD1	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:227:LEU:HD23	1:e:242:GLY:C	2.35	0.51
1:e:442:LEU:HD13	1:e:442:LEU:C	2.35	0.51
1:g:119:ASN:O	1:g:123:SER:OG	2.28	0.51
1:g:463:LEU:N	1:g:463:LEU:CD2	2.73	0.51
1:h:64:ARG:O	1:h:65:GLY:C	2.51	0.51
1:h:375:ARG:C	1:h:375:ARG:HD3	2.36	0.51
1:h:398:LEU:HG	1:h:402:ARG:HH22	1.72	0.51
1:h:463:LEU:N	1:h:463:LEU:CD2	2.73	0.51
1:i:126:TYR:C	1:i:129:THR:HG23	2.34	0.51
1:j:59:GLN:HB2	1:j:279:LEU:HA	1.88	0.51
1:j:128:VAL:HA	1:k:390:SER:OG	2.08	0.51
1:j:162:ARG:NH1	1:k:259:LEU:HD22	2.22	0.51
1:k:72:LYS:NZ	1:k:72:LYS:CB	2.73	0.51
1:k:126:TYR:HE1	1:k:158:MET:CG	2.24	0.51
1:k:166:TYR:HD1	1:k:166:TYR:C	2.17	0.51
1:l:257:VAL:HG21	1:l:267:SER:CA	2.40	0.51
1:l:327:ILE:HD12	1:l:327:ILE:O	2.09	0.51
1:a:36:GLN:NE2	1:a:36:GLN:CA	2.72	0.51
1:a:439:LEU:HD23	1:b:474:ILE:CD1	2.40	0.51
1:b:37:TYR:N	1:b:37:TYR:HD1	2.07	0.51
1:b:64:ARG:O	1:b:65:GLY:C	2.51	0.51
1:c:159:LYS:CE	1:c:161:TYR:CE1	2.88	0.51
1:c:290:SER:O	1:d:284:GLU:HG3	2.02	0.51
1:c:291:MET:C	1:c:291:MET:SD	2.94	0.51
1:c:439:LEU:HD23	1:d:474:ILE:CD1	2.40	0.51
1:d:147:LEU:CG	1:d:407:GLN:NE2	2.69	0.51
1:d:248:ALA:HB1	1:d:406:LYS:CD	2.31	0.51
1:e:385:LEU:C	1:e:388:VAL:CG2	2.80	0.51
1:f:227:LEU:HD23	1:f:242:GLY:C	2.35	0.51
1:f:448:ALA:C	1:f:450:ALA:N	2.69	0.51
1:g:147:LEU:CG	1:g:407:GLN:NE2	2.69	0.51
1:g:359:ASN:CG	1:h:380:GLU:CB	2.79	0.51
1:h:179:MET:HE2	1:h:253:PRO:HD3	1.92	0.51
1:h:226:TYR:HB2	1:h:244:TYR:CB	2.32	0.51
1:h:254:ILE:HG23	1:h:395:GLU:CB	2.40	0.51
1:h:358:LEU:CD2	1:h:358:LEU:N	2.73	0.51
1:j:166:TYR:HD1	1:j:166:TYR:C	2.17	0.51
1:j:375:ARG:C	1:j:375:ARG:HD3	2.36	0.51
1:k:288:LYS:HE2	1:k:335:GLN:HB2	1.92	0.51
1:k:375:ARG:C	1:k:375:ARG:HD3	2.36	0.51
1:k:385:LEU:C	1:k:388:VAL:CG2	2.80	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:59:GLN:HE21	1:l:278:SER:CB	2.15	0.51
1:l:126:TYR:CE1	1:l:158:MET:CB	2.74	0.51
1:l:135:LYS:NZ	1:l:135:LYS:HB3	2.26	0.51
1:a:135:LYS:NZ	1:a:135:LYS:HB3	2.26	0.51
1:a:273:LEU:HD12	1:l:56:THR:CG2	2.31	0.51
1:a:291:MET:C	1:a:291:MET:SD	2.94	0.51
1:b:59:GLN:HB2	1:b:279:LEU:HA	1.88	0.51
1:c:448:ALA:C	1:c:450:ALA:N	2.69	0.51
1:e:126:TYR:HE1	1:e:158:MET:CG	2.24	0.51
1:e:126:TYR:C	1:e:129:THR:HG23	2.34	0.51
1:f:37:TYR:N	1:f:37:TYR:HD1	2.07	0.51
1:f:126:TYR:HE1	1:f:158:MET:CG	2.24	0.51
1:f:135:LYS:NZ	1:f:135:LYS:HB3	2.26	0.51
1:f:159:LYS:CE	1:f:161:TYR:CE1	2.88	0.51
1:f:369:VAL:N	1:f:370:THR:CA	2.72	0.51
1:h:166:TYR:HD1	1:h:166:TYR:C	2.17	0.51
1:i:227:LEU:HD23	1:i:242:GLY:C	2.35	0.51
1:i:331:GLN:HE21	1:j:335:GLN:HB3	1.68	0.51
1:i:375:ARG:HD3	1:i:375:ARG:C	2.36	0.51
1:j:248:ALA:HB1	1:j:406:LYS:CD	2.31	0.51
1:j:254:ILE:HG23	1:j:395:GLU:CB	2.40	0.51
1:k:257:VAL:HG21	1:k:267:SER:CA	2.40	0.51
1:k:483:LEU:HG	1:l:462:ASN:HB2	1.91	0.51
1:l:78:PHE:CZ	1:l:130:LEU:HD12	2.37	0.51
1:l:254:ILE:HG23	1:l:395:GLU:CB	2.40	0.51
1:a:481:ILE:HG13	1:b:461:ILE:HG21	1.92	0.51
1:b:54:TYR:CD2	1:b:56:THR:HG23	2.46	0.51
1:c:68:ASN:ND2	1:c:358:LEU:HD13	2.26	0.51
1:c:450:ALA:CA	1:d:455:MET:CE	2.89	0.51
1:d:126:TYR:HE1	1:d:158:MET:CG	2.24	0.51
1:d:291:MET:C	1:d:291:MET:SD	2.94	0.51
1:d:383:ASP:O	1:d:385:LEU:N	2.42	0.51
1:d:408:LEU:HB3	1:d:414:ILE:CG2	2.41	0.51
1:e:257:VAL:HG21	1:e:267:SER:CA	2.40	0.51
1:f:56:THR:CG2	1:g:273:LEU:HD12	2.32	0.51
1:f:61:VAL:HB	1:g:351:ARG:CD	2.40	0.51
1:g:140:ALA:CB	1:g:267:SER:H	2.17	0.51
1:g:291:MET:C	1:g:291:MET:SD	2.94	0.51
1:g:309:ARG:CG	1:g:309:ARG:NH1	2.72	0.51
1:g:442:LEU:CD2	1:g:476:ILE:CG2	2.76	0.51
1:h:159:LYS:HB2	1:i:173:PHE:HD1	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:282:LEU:CD2	1:i:277:ARG:NH2	2.74	0.51
1:i:419:LYS:CE	1:i:419:LYS:N	2.72	0.51
1:j:241:ASP:N	1:j:241:ASP:OD1	2.41	0.51
1:k:291:MET:SD	1:k:292:ILE:N	2.84	0.51
1:k:311:LEU:HD22	1:l:297:ILE:HD13	1.92	0.51
1:l:68:ASN:ND2	1:l:358:LEU:HD22	2.25	0.51
1:l:358:LEU:CD2	1:l:358:LEU:N	2.73	0.51
1:l:375:ARG:HD3	1:l:375:ARG:C	2.36	0.51
1:a:126:TYR:HE1	1:a:158:MET:CG	2.24	0.51
1:a:442:LEU:HD13	1:a:442:LEU:C	2.35	0.51
1:a:446:VAL:HG23	1:b:452:LEU:HD21	1.74	0.51
1:b:159:LYS:CE	1:b:161:TYR:CE1	2.88	0.51
1:c:179:MET:HE2	1:c:253:PRO:HD3	1.92	0.51
1:d:20:LEU:CA	1:d:167:VAL:HG11	2.35	0.51
1:d:292:ILE:HD12	1:e:288:LYS:HZ1	1.72	0.51
1:e:282:LEU:CD2	1:f:277:ARG:NH2	2.74	0.51
1:f:291:MET:SD	1:f:292:ILE:N	2.84	0.51
1:g:72:LYS:NZ	1:g:72:LYS:CB	2.73	0.51
1:g:291:MET:SD	1:g:292:ILE:N	2.84	0.51
1:h:291:MET:SD	1:h:292:ILE:N	2.84	0.51
1:h:311:LEU:HD22	1:i:297:ILE:HD13	1.92	0.51
1:h:359:ASN:CG	1:i:380:GLU:CD	2.79	0.51
1:h:476:ILE:CG1	1:i:469:ARG:NH1	2.74	0.51
1:i:179:MET:HE2	1:i:253:PRO:HD3	1.92	0.51
1:i:483:LEU:HG	1:j:462:ASN:HB2	1.93	0.51
1:j:179:MET:HE2	1:j:253:PRO:HD3	1.92	0.51
1:b:72:LYS:HB2	1:b:72:LYS:NZ	2.24	0.51
1:b:481:ILE:CD1	1:c:466:ILE:HD13	2.15	0.51
1:c:37:TYR:N	1:c:37:TYR:HD1	2.07	0.51
1:c:126:TYR:HE1	1:c:158:MET:CG	2.24	0.51
1:d:227:LEU:HD23	1:d:242:GLY:C	2.35	0.51
1:d:257:VAL:HG21	1:d:267:SER:CA	2.40	0.51
1:e:142:ASN:ND2	1:e:142:ASN:N	2.59	0.51
1:e:159:LYS:HB2	1:f:173:PHE:HD1	1.75	0.51
1:f:257:VAL:HG21	1:f:267:SER:CA	2.40	0.51
1:f:291:MET:C	1:f:291:MET:SD	2.94	0.51
1:f:375:ARG:HD3	1:f:375:ARG:C	2.36	0.51
1:f:442:LEU:HD13	1:f:442:LEU:C	2.35	0.51
1:g:126:TYR:C	1:g:129:THR:HG23	2.34	0.51
1:g:375:ARG:C	1:g:375:ARG:HD3	2.36	0.51
1:h:77:LEU:HD22	1:h:78:PHE:CE2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:134:LEU:C	1:h:134:LEU:CD1	2.84	0.51
1:h:162:ARG:NH1	1:i:259:LEU:HD22	2.20	0.51
1:h:291:MET:C	1:h:291:MET:SD	2.94	0.51
1:j:61:VAL:HB	1:k:351:ARG:CD	2.40	0.51
1:j:291:MET:SD	1:j:292:ILE:N	2.84	0.51
1:j:337:ASP:OD1	1:k:340:VAL:HG21	2.11	0.51
1:l:291:MET:SD	1:l:292:ILE:N	2.84	0.51
1:a:217:ILE:HD13	1:a:251:TYR:CE1	2.46	0.51
1:a:439:LEU:C	1:a:439:LEU:CD1	2.85	0.51
1:a:465:MET:HG2	1:l:480:GLY:C	2.32	0.51
1:b:61:VAL:HB	1:c:351:ARG:CD	2.39	0.51
1:b:135:LYS:NZ	1:b:135:LYS:HB3	2.26	0.51
1:b:254:ILE:C	1:b:395:GLU:HG3	2.31	0.51
1:b:439:LEU:HD23	1:c:474:ILE:CD1	2.40	0.51
1:c:142:ASN:ND2	1:c:142:ASN:N	2.59	0.51
1:c:375:ARG:C	1:c:375:ARG:HD3	2.36	0.51
1:d:288:LYS:HE2	1:d:335:GLN:HB2	1.92	0.51
1:e:135:LYS:NZ	1:e:135:LYS:HB3	2.26	0.51
1:e:179:MET:HE2	1:e:253:PRO:HD3	1.92	0.51
1:e:291:MET:SD	1:e:292:ILE:N	2.84	0.51
1:e:452:LEU:HD13	1:e:463:LEU:HD11	1.93	0.51
1:e:480:GLY:C	1:f:465:MET:HG2	2.29	0.51
1:f:126:TYR:C	1:f:129:THR:HG23	2.34	0.51
1:f:179:MET:HE2	1:f:253:PRO:HD3	1.92	0.51
1:g:249:CYS:SG	1:g:407:GLN:HG3	2.51	0.51
1:g:398:LEU:HG	1:g:402:ARG:HH22	1.72	0.51
1:h:126:TYR:C	1:h:129:THR:HG23	2.34	0.51
1:i:90:GLU:HB2	1:i:95:GLN:HB2	1.93	0.51
1:i:244:TYR:CB	1:i:249:CYS:O	2.53	0.51
1:i:277:ARG:CZ	1:i:351:ARG:HH22	2.21	0.51
1:i:291:MET:C	1:i:291:MET:SD	2.94	0.51
1:i:291:MET:SD	1:i:292:ILE:N	2.84	0.51
1:j:77:LEU:HD22	1:j:78:PHE:CE2	2.43	0.51
1:j:86:LEU:HA	1:j:424:PRO:HB3	1.92	0.51
1:j:93:ALA:O	1:j:97:LEU:N	2.44	0.51
1:j:402:ARG:CG	1:j:402:ARG:NH1	2.72	0.51
1:k:135:LYS:NZ	1:k:135:LYS:HB3	2.26	0.51
1:l:179:MET:HE2	1:l:253:PRO:HD3	1.92	0.51
1:a:78:PHE:CZ	1:a:130:LEU:HD12	2.37	0.50
1:a:86:LEU:HA	1:a:424:PRO:HB3	1.92	0.50
1:a:142:ASN:ND2	1:a:142:ASN:N	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:297:ILE:HD13	1:l:311:LEU:HD22	1.93	0.50
1:a:375:ARG:HD3	1:a:375:ARG:C	2.36	0.50
1:a:402:ARG:CG	1:a:402:ARG:NH1	2.72	0.50
1:b:142:ASN:ND2	1:b:142:ASN:N	2.59	0.50
1:b:291:MET:SD	1:b:292:ILE:N	2.84	0.50
1:c:311:LEU:HD22	1:d:297:ILE:HD13	1.93	0.50
1:d:142:ASN:ND2	1:d:142:ASN:N	2.59	0.50
1:d:309:ARG:CG	1:d:309:ARG:NH1	2.72	0.50
1:d:452:LEU:HD13	1:d:463:LEU:HD11	1.93	0.50
1:e:28:GLU:O	1:e:31:ALA:CB	2.59	0.50
1:e:291:MET:C	1:e:291:MET:SD	2.94	0.50
1:f:140:ALA:CB	1:f:267:SER:H	2.17	0.50
1:f:142:ASN:ND2	1:f:142:ASN:N	2.59	0.50
1:g:146:TYR:OH	1:g:251:TYR:HE2	1.93	0.50
1:g:254:ILE:HG23	1:g:395:GLU:CB	2.40	0.50
1:g:301:ASN:CB	1:g:326:ASP:OD2	2.60	0.50
1:g:476:ILE:CG1	1:h:469:ARG:NH1	2.74	0.50
1:i:29:THR:C	1:i:31:ALA:N	2.62	0.50
1:i:93:ALA:O	1:i:97:LEU:N	2.44	0.50
1:i:448:ALA:C	1:i:450:ALA:N	2.69	0.50
1:i:481:ILE:HG13	1:j:461:ILE:HG21	1.93	0.50
1:j:119:ASN:O	1:j:123:SER:OG	2.28	0.50
1:j:126:TYR:HE1	1:j:158:MET:CG	2.24	0.50
1:j:257:VAL:HG21	1:j:267:SER:CA	2.40	0.50
1:j:291:MET:C	1:j:291:MET:SD	2.94	0.50
1:j:406:LYS:HA	1:j:406:LYS:CE	2.41	0.50
1:k:86:LEU:HA	1:k:424:PRO:HB3	1.92	0.50
1:k:93:ALA:O	1:k:97:LEU:N	2.45	0.50
1:k:134:LEU:C	1:k:134:LEU:CD1	2.84	0.50
1:l:126:TYR:HE1	1:l:158:MET:CG	2.24	0.50
1:l:291:MET:C	1:l:291:MET:SD	2.94	0.50
1:l:442:LEU:CD2	1:l:476:ILE:CG2	2.77	0.50
1:a:291:MET:SD	1:a:292:ILE:N	2.84	0.50
1:a:351:ARG:CD	1:l:61:VAL:HB	2.39	0.50
1:a:462:ASN:HB2	1:l:483:LEU:HG	1.92	0.50
1:b:257:VAL:HG21	1:b:267:SER:CA	2.40	0.50
1:c:72:LYS:HB2	1:c:72:LYS:NZ	2.24	0.50
1:c:86:LEU:HA	1:c:424:PRO:HB3	1.92	0.50
1:c:227:LEU:HD23	1:c:242:GLY:C	2.35	0.50
1:c:257:VAL:HG21	1:c:267:SER:CA	2.40	0.50
1:c:476:ILE:HG13	1:d:469:ARG:NH1	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:119:ASN:O	1:d:123:SER:OG	2.28	0.50
1:d:217:ILE:HD13	1:d:251:TYR:CE1	2.47	0.50
1:d:291:MET:SD	1:d:292:ILE:N	2.84	0.50
1:e:61:VAL:HB	1:f:351:ARG:CD	2.39	0.50
1:e:368:ARG:O	1:f:373:GLU:CD	2.54	0.50
1:e:419:LYS:CE	1:e:419:LYS:N	2.72	0.50
1:f:17:TYR:CG	1:f:180:VAL:HG11	2.43	0.50
1:f:301:ASN:CB	1:f:326:ASP:OD2	2.60	0.50
1:g:217:ILE:HD13	1:g:251:TYR:CE1	2.47	0.50
1:g:257:VAL:HG21	1:g:267:SER:CA	2.40	0.50
1:g:368:ARG:C	1:g:370:THR:CB	2.81	0.50
1:g:439:LEU:C	1:g:439:LEU:CD1	2.85	0.50
1:i:254:ILE:HG23	1:i:395:GLU:CB	2.40	0.50
1:i:292:ILE:HD12	1:j:288:LYS:HZ1	1.75	0.50
1:j:36:GLN:NE2	1:j:36:GLN:CA	2.73	0.50
1:k:144:LEU:C	1:k:144:LEU:CD2	2.85	0.50
1:k:359:ASN:CG	1:l:380:GLU:CD	2.78	0.50
1:k:476:ILE:CG1	1:l:469:ARG:NH1	2.73	0.50
1:l:86:LEU:HA	1:l:424:PRO:HB3	1.92	0.50
1:b:362:VAL:O	1:b:362:VAL:HG12	2.10	0.50
1:b:375:ARG:C	1:b:375:ARG:HD3	2.36	0.50
1:c:331:GLN:HE22	1:d:335:GLN:CA	2.15	0.50
1:d:86:LEU:HA	1:d:424:PRO:HB3	1.92	0.50
1:d:134:LEU:C	1:d:134:LEU:CD1	2.85	0.50
1:e:86:LEU:HA	1:e:424:PRO:HB3	1.92	0.50
1:e:359:ASN:CG	1:f:380:GLU:CD	2.78	0.50
1:e:408:LEU:HB3	1:e:414:ILE:CG2	2.41	0.50
1:g:28:GLU:O	1:g:31:ALA:CB	2.60	0.50
1:g:86:LEU:HD23	1:g:424:PRO:HB3	0.53	0.50
1:g:419:LYS:CE	1:g:419:LYS:N	2.71	0.50
1:g:483:LEU:HG	1:h:462:ASN:HB2	1.92	0.50
1:h:54:TYR:CD2	1:h:56:THR:HG23	2.46	0.50
1:h:248:ALA:HB1	1:h:406:LYS:CD	2.31	0.50
1:h:301:ASN:CB	1:h:326:ASP:OD2	2.60	0.50
1:h:419:LYS:HE3	1:h:419:LYS:H	1.72	0.50
1:j:217:ILE:HD13	1:j:251:TYR:CE1	2.47	0.50
1:j:331:GLN:HE22	1:k:335:GLN:CA	2.13	0.50
1:j:448:ALA:C	1:j:450:ALA:N	2.69	0.50
1:k:291:MET:C	1:k:291:MET:SD	2.94	0.50
1:k:402:ARG:CG	1:k:402:ARG:NH1	2.72	0.50
1:l:28:GLU:O	1:l:31:ALA:CB	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:369:VAL:N	1:l:370:THR:CA	2.74	0.50
1:a:288:LYS:HE2	1:a:335:GLN:HB2	1.92	0.50
1:a:340:VAL:HG21	1:l:337:ASP:OD1	2.11	0.50
1:b:144:LEU:C	1:b:144:LEU:CD2	2.85	0.50
1:c:288:LYS:HE2	1:c:335:GLN:HB2	1.92	0.50
1:c:385:LEU:C	1:c:388:VAL:CG2	2.80	0.50
1:c:452:LEU:HD13	1:c:463:LEU:HD11	1.93	0.50
1:e:36:GLN:NE2	1:e:36:GLN:CA	2.73	0.50
1:e:66:LEU:CD2	1:e:66:LEU:C	2.84	0.50
1:e:119:ASN:O	1:e:123:SER:OG	2.28	0.50
1:e:375:ARG:C	1:e:375:ARG:HD3	2.36	0.50
1:f:68:ASN:ND2	1:f:358:LEU:HD13	2.26	0.50
1:f:159:LYS:HB2	1:g:173:PHE:CD1	2.47	0.50
1:f:452:LEU:HD13	1:f:463:LEU:HD11	1.93	0.50
1:g:77:LEU:HD22	1:g:78:PHE:CE2	2.43	0.50
1:g:134:LEU:C	1:g:134:LEU:CD1	2.85	0.50
1:g:135:LYS:HB3	1:g:135:LYS:NZ	2.26	0.50
1:g:241:ASP:N	1:g:241:ASP:OD1	2.41	0.50
1:g:406:LYS:HA	1:g:406:LYS:CE	2.41	0.50
1:g:448:ALA:C	1:g:450:ALA:N	2.69	0.50
1:h:357:MET:HA	1:h:381:LEU:HD21	1.93	0.50
1:h:369:VAL:N	1:h:370:THR:CA	2.72	0.50
1:i:28:GLU:O	1:i:31:ALA:CB	2.60	0.50
1:i:68:ASN:ND2	1:i:358:LEU:HD13	2.26	0.50
1:i:134:LEU:C	1:i:134:LEU:CD1	2.84	0.50
1:i:159:LYS:HB2	1:j:173:PHE:HD1	1.77	0.50
1:j:66:LEU:CD2	1:j:66:LEU:C	2.84	0.50
1:j:439:LEU:C	1:j:439:LEU:CD1	2.85	0.50
1:k:241:ASP:OD1	1:k:241:ASP:N	2.41	0.50
1:l:68:ASN:ND2	1:l:358:LEU:CD2	2.73	0.50
1:l:83:TRP:NE1	1:l:118:MET:HE1	2.17	0.50
1:l:93:ALA:O	1:l:97:LEU:N	2.44	0.50
1:l:142:ASN:ND2	1:l:142:ASN:N	2.59	0.50
1:l:226:TYR:HB2	1:l:244:TYR:CB	2.32	0.50
1:l:402:ARG:CG	1:l:402:ARG:NH1	2.72	0.50
1:l:406:LYS:HA	1:l:406:LYS:CE	2.42	0.50
1:l:442:LEU:HD13	1:l:442:LEU:C	2.35	0.50
1:b:17:TYR:CG	1:b:180:VAL:HG11	2.43	0.50
1:b:288:LYS:HE2	1:b:335:GLN:HB2	1.92	0.50
1:b:359:ASN:CG	1:c:380:GLU:CD	2.79	0.50
1:c:17:TYR:CG	1:c:180:VAL:HG11	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:28:GLU:O	1:c:31:ALA:CB	2.60	0.50
1:c:135:LYS:NZ	1:c:135:LYS:HB3	2.26	0.50
1:c:369:VAL:N	1:c:370:THR:CA	2.73	0.50
1:c:402:ARG:CG	1:c:402:ARG:NH1	2.72	0.50
1:d:316:THR:CG2	1:e:294:SER:O	2.60	0.50
1:d:385:LEU:C	1:d:388:VAL:CG2	2.80	0.50
1:d:439:LEU:C	1:d:439:LEU:CD1	2.85	0.50
1:e:134:LEU:C	1:e:134:LEU:CD1	2.85	0.50
1:e:357:MET:HA	1:e:381:LEU:HD21	1.93	0.50
1:f:217:ILE:HD13	1:f:251:TYR:CE1	2.47	0.50
1:g:142:ASN:ND2	1:g:142:ASN:N	2.59	0.50
1:g:375:ARG:C	1:g:375:ARG:CD	2.85	0.50
1:g:442:LEU:HD13	1:g:442:LEU:C	2.35	0.50
1:g:476:ILE:HG13	1:h:469:ARG:NH1	2.25	0.50
1:h:59:GLN:NE2	1:h:279:LEU:N	2.60	0.50
1:h:86:LEU:HD23	1:h:424:PRO:HB3	0.53	0.50
1:h:146:TYR:OH	1:h:251:TYR:HE2	1.93	0.50
1:h:254:ILE:CD1	1:h:396:LEU:HD21	2.27	0.50
1:h:257:VAL:HG21	1:h:267:SER:CA	2.40	0.50
1:h:368:ARG:C	1:h:370:THR:CB	2.82	0.50
1:h:439:LEU:C	1:h:439:LEU:CD1	2.85	0.50
1:i:59:GLN:NE2	1:i:279:LEU:N	2.60	0.50
1:i:369:VAL:N	1:i:370:THR:CA	2.73	0.50
1:i:406:LYS:HA	1:i:406:LYS:CE	2.42	0.50
1:i:439:LEU:HD23	1:j:474:ILE:CD1	2.41	0.50
1:j:135:LYS:NZ	1:j:135:LYS:HB3	2.26	0.50
1:k:21:LYS:O	1:k:21:LYS:HG2	2.12	0.50
1:k:448:ALA:C	1:k:450:ALA:N	2.69	0.50
1:l:20:LEU:CA	1:l:167:VAL:HG11	2.35	0.50
1:l:398:LEU:HG	1:l:402:ARG:NH2	2.25	0.50
1:a:28:GLU:O	1:a:31:ALA:CB	2.60	0.50
1:a:59:GLN:NE2	1:a:279:LEU:N	2.60	0.50
1:a:134:LEU:C	1:a:134:LEU:CD1	2.84	0.50
1:b:59:GLN:CD	1:b:279:LEU:H	2.10	0.50
1:b:126:TYR:HE1	1:b:158:MET:CG	2.24	0.50
1:b:408:LEU:HB3	1:b:414:ILE:CG2	2.41	0.50
1:b:439:LEU:C	1:b:439:LEU:CD1	2.85	0.50
1:c:119:ASN:O	1:c:123:SER:OG	2.28	0.50
1:d:59:GLN:NE2	1:d:279:LEU:N	2.60	0.50
1:e:362:VAL:O	1:e:362:VAL:HG12	2.10	0.50
1:f:86:LEU:HD23	1:f:424:PRO:HB3	0.53	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:419:LYS:CE	1:f:419:LYS:N	2.71	0.50
1:g:90:GLU:HB2	1:g:95:GLN:HB2	1.93	0.50
1:g:408:LEU:HB3	1:g:414:ILE:CG2	2.41	0.50
1:g:408:LEU:C	1:g:414:ILE:HG21	2.37	0.50
1:h:126:TYR:HE1	1:h:158:MET:CG	2.24	0.50
1:h:375:ARG:C	1:h:375:ARG:CD	2.85	0.50
1:k:28:GLU:O	1:k:31:ALA:CB	2.60	0.50
1:k:217:ILE:HD13	1:k:251:TYR:CE1	2.46	0.50
1:k:439:LEU:C	1:k:439:LEU:CD1	2.85	0.50
1:a:43:PHE:CZ	1:a:163:LEU:HB2	2.47	0.50
1:a:159:LYS:HB2	1:b:173:PHE:CD1	2.46	0.50
1:a:282:LEU:C	1:a:282:LEU:CD1	2.85	0.50
1:a:293:SER:O	1:b:288:LYS:CA	2.57	0.50
1:a:408:LEU:HB3	1:a:414:ILE:CG2	2.41	0.50
1:b:217:ILE:HD13	1:b:251:TYR:CE1	2.47	0.50
1:b:248:ALA:CB	1:b:406:LYS:CD	2.90	0.50
1:c:147:LEU:H	1:c:147:LEU:CD2	2.08	0.50
1:c:147:LEU:CG	1:c:407:GLN:NE2	2.69	0.50
1:c:217:ILE:HD13	1:c:251:TYR:CE1	2.47	0.50
1:c:359:ASN:OD1	1:d:380:GLU:CG	2.58	0.50
1:c:439:LEU:C	1:c:439:LEU:CD1	2.84	0.50
1:d:146:TYR:OH	1:d:251:TYR:HE2	1.92	0.50
1:d:448:ALA:C	1:d:450:ALA:N	2.69	0.50
1:e:17:TYR:CG	1:e:180:VAL:HG11	2.43	0.50
1:e:86:LEU:HD23	1:e:424:PRO:HB3	0.53	0.50
1:e:288:LYS:HE2	1:e:335:GLN:HB2	1.92	0.50
1:f:86:LEU:HA	1:f:424:PRO:HB3	1.92	0.50
1:f:282:LEU:C	1:f:282:LEU:CD1	2.85	0.50
1:f:449:TRP:HB2	1:g:455:MET:HE1	1.81	0.50
1:f:483:LEU:HG	1:g:462:ASN:HB2	1.94	0.50
1:g:59:GLN:NE2	1:g:279:LEU:N	2.60	0.50
1:g:166:TYR:HD1	1:g:166:TYR:C	2.17	0.50
1:g:311:LEU:HD22	1:h:297:ILE:HD13	1.92	0.50
1:g:369:VAL:N	1:g:370:THR:CA	2.73	0.50
1:h:90:GLU:HB2	1:h:95:GLN:HB2	1.93	0.50
1:h:217:ILE:HD13	1:h:251:TYR:CE1	2.47	0.50
1:h:408:LEU:C	1:h:414:ILE:HG21	2.37	0.50
1:k:90:GLU:HB2	1:k:95:GLN:HB2	1.93	0.50
1:k:301:ASN:CB	1:k:326:ASP:OD2	2.60	0.50
1:l:452:LEU:HD13	1:l:463:LEU:HD11	1.93	0.50
1:a:144:LEU:C	1:a:144:LEU:CD2	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:398:LEU:HG	1:a:402:ARG:NH2	2.25	0.50
1:b:28:GLU:O	1:b:31:ALA:CB	2.60	0.50
1:b:254:ILE:CD1	1:b:396:LEU:HD21	2.27	0.50
1:c:21:LYS:O	1:c:21:LYS:HG2	2.12	0.50
1:c:32:GLN:OE1	1:c:43:PHE:HB3	2.12	0.50
1:c:134:LEU:C	1:c:134:LEU:CD1	2.85	0.50
1:c:241:ASP:OD1	1:c:241:ASP:N	2.41	0.50
1:c:357:MET:C	1:c:358:LEU:CD2	2.85	0.50
1:c:408:LEU:HB3	1:c:414:ILE:CG2	2.41	0.50
1:d:83:TRP:NE1	1:d:118:MET:HE1	2.17	0.50
1:d:135:LYS:HB3	1:d:135:LYS:NZ	2.26	0.50
1:d:159:LYS:CE	1:d:161:TYR:CE1	2.87	0.50
1:d:352:LEU:C	1:d:352:LEU:CD1	2.85	0.50
1:d:375:ARG:C	1:d:375:ARG:HD3	2.36	0.50
1:e:20:LEU:CA	1:e:167:VAL:HG11	2.35	0.50
1:e:59:GLN:HB2	1:e:279:LEU:HA	1.87	0.50
1:e:137:LEU:C	1:e:139:VAL:H	2.20	0.50
1:e:282:LEU:C	1:e:282:LEU:CD1	2.85	0.50
1:e:323:ARG:CD	1:e:324:PRO:HD2	2.39	0.50
1:e:439:LEU:C	1:e:439:LEU:CD1	2.85	0.50
1:f:119:ASN:O	1:f:123:SER:OG	2.28	0.50
1:f:375:ARG:C	1:f:375:ARG:CD	2.85	0.50
1:f:439:LEU:C	1:f:439:LEU:CD1	2.85	0.50
1:h:93:ALA:O	1:h:97:LEU:N	2.45	0.50
1:h:135:LYS:NZ	1:h:135:LYS:HB3	2.26	0.50
1:h:406:LYS:HA	1:h:406:LYS:CE	2.42	0.50
1:i:43:PHE:CZ	1:i:163:LEU:HB2	2.47	0.50
1:i:130:LEU:HD23	1:i:130:LEU:O	2.12	0.50
1:i:301:ASN:CB	1:i:326:ASP:OD2	2.60	0.50
1:j:397:GLN:NE2	1:j:397:GLN:N	2.60	0.50
1:k:66:LEU:CD2	1:k:66:LEU:C	2.84	0.50
1:k:144:LEU:C	1:k:144:LEU:HD23	2.37	0.50
1:k:357:MET:HA	1:k:381:LEU:HD21	1.93	0.50
1:l:375:ARG:C	1:l:375:ARG:CD	2.85	0.50
1:l:439:LEU:C	1:l:439:LEU:CD1	2.85	0.50
1:a:301:ASN:CB	1:a:326:ASP:OD2	2.60	0.50
1:b:32:GLN:OE1	1:b:43:PHE:HB3	2.12	0.50
1:b:86:LEU:HA	1:b:424:PRO:HB3	1.92	0.50
1:b:119:ASN:O	1:b:123:SER:OG	2.28	0.50
1:b:144:LEU:N	1:b:144:LEU:CD2	2.73	0.50
1:b:292:ILE:HD12	1:c:288:LYS:HZ1	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:282:LEU:C	1:c:282:LEU:CD1	2.85	0.50
1:c:357:MET:HA	1:c:381:LEU:HD21	1.94	0.50
1:d:80:MET:CG	1:d:127:ARG:HH21	2.10	0.50
1:e:80:MET:CG	1:e:127:ARG:HH21	2.10	0.50
1:e:352:LEU:C	1:e:352:LEU:CD1	2.85	0.50
1:f:32:GLN:OE1	1:f:43:PHE:HB3	2.12	0.50
1:f:43:PHE:CZ	1:f:163:LEU:HB2	2.47	0.50
1:f:90:GLU:HB2	1:f:95:GLN:HB2	1.93	0.50
1:f:474:ILE:N	1:f:474:ILE:CD1	2.75	0.50
1:g:332:LEU:HD23	1:g:333:GLU:O	2.12	0.50
1:g:452:LEU:HD13	1:g:463:LEU:HD11	1.93	0.50
1:i:86:LEU:HD23	1:i:424:PRO:HB3	0.53	0.50
1:i:217:ILE:HD13	1:i:251:TYR:CE1	2.47	0.50
1:i:226:TYR:HB2	1:i:244:TYR:CB	2.32	0.50
1:i:397:GLN:N	1:i:397:GLN:NE2	2.60	0.50
1:j:144:LEU:HD23	1:j:144:LEU:C	2.37	0.50
1:j:244:TYR:HE2	1:j:250:PRO:HD2	1.71	0.50
1:j:400:LEU:C	1:j:400:LEU:CD1	2.85	0.50
1:k:20:LEU:N	1:k:20:LEU:HD22	2.27	0.50
1:k:72:LYS:HB2	1:k:72:LYS:NZ	2.24	0.50
1:k:142:ASN:ND2	1:k:142:ASN:N	2.59	0.50
1:k:291:MET:C	1:k:291:MET:CE	2.85	0.50
1:k:375:ARG:C	1:k:375:ARG:CD	2.85	0.50
1:k:397:GLN:N	1:k:397:GLN:NE2	2.60	0.50
1:k:400:LEU:C	1:k:400:LEU:CD1	2.85	0.50
1:k:442:LEU:HD13	1:k:442:LEU:C	2.35	0.50
1:l:68:ASN:HD22	1:l:358:LEU:HD21	1.74	0.50
1:l:130:LEU:HD23	1:l:130:LEU:O	2.12	0.50
1:l:144:LEU:C	1:l:144:LEU:CD2	2.85	0.50
1:l:217:ILE:HD13	1:l:251:TYR:CE1	2.47	0.50
1:l:291:MET:C	1:l:291:MET:CE	2.85	0.50
1:l:301:ASN:CB	1:l:326:ASP:OD2	2.60	0.50
1:l:385:LEU:C	1:l:388:VAL:CG2	2.80	0.50
1:l:448:ALA:C	1:l:450:ALA:N	2.69	0.50
1:a:162:ARG:NH1	1:b:259:LEU:HD22	2.21	0.49
1:a:337:ASP:OD1	1:b:340:VAL:HG21	2.12	0.49
1:a:461:ILE:HG21	1:l:481:ILE:HG13	1.93	0.49
1:b:59:GLN:NE2	1:b:279:LEU:N	2.60	0.49
1:b:144:LEU:C	1:b:144:LEU:HD23	2.37	0.49
1:b:352:LEU:C	1:b:352:LEU:CD1	2.85	0.49
1:b:370:THR:CG2	1:b:372:GLU:OE1	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:452:LEU:HD13	1:b:463:LEU:HD11	1.93	0.49
1:b:483:LEU:N	1:c:460:ASP:O	2.36	0.49
1:c:144:LEU:C	1:c:144:LEU:CD2	2.85	0.49
1:c:144:LEU:C	1:c:144:LEU:HD23	2.37	0.49
1:c:400:LEU:C	1:c:400:LEU:CD1	2.85	0.49
1:d:43:PHE:CZ	1:d:163:LEU:HB2	2.47	0.49
1:d:59:GLN:HB2	1:d:279:LEU:HA	1.88	0.49
1:d:277:ARG:CZ	1:d:351:ARG:HH22	2.21	0.49
1:d:279:LEU:C	1:d:279:LEU:CD1	2.85	0.49
1:e:144:LEU:C	1:e:144:LEU:CD2	2.85	0.49
1:e:301:ASN:CB	1:e:326:ASP:OD2	2.60	0.49
1:f:28:GLU:O	1:f:31:ALA:CB	2.60	0.49
1:f:93:ALA:O	1:f:97:LEU:N	2.44	0.49
1:f:398:LEU:HG	1:f:402:ARG:HH22	1.72	0.49
1:f:408:LEU:HB3	1:f:414:ILE:CG2	2.41	0.49
1:g:357:MET:HA	1:g:381:LEU:HD21	1.94	0.49
1:h:130:LEU:O	1:h:130:LEU:HD23	2.12	0.49
1:h:147:LEU:CG	1:h:407:GLN:NE2	2.69	0.49
1:h:397:GLN:N	1:h:397:GLN:NE2	2.60	0.49
1:h:442:LEU:HD13	1:h:442:LEU:C	2.35	0.49
1:i:375:ARG:C	1:i:375:ARG:CD	2.85	0.49
1:j:59:GLN:NE2	1:j:279:LEU:N	2.60	0.49
1:j:144:LEU:C	1:j:144:LEU:CD2	2.85	0.49
1:j:145:LEU:HD13	1:j:145:LEU:O	2.12	0.49
1:j:408:LEU:HB3	1:j:414:ILE:CG2	2.41	0.49
1:k:130:LEU:O	1:k:130:LEU:HD23	2.12	0.49
1:k:282:LEU:C	1:k:282:LEU:CD1	2.85	0.49
1:a:61:VAL:HB	1:b:351:ARG:CD	2.40	0.49
1:a:72:LYS:HB2	1:a:72:LYS:NZ	2.24	0.49
1:a:144:LEU:C	1:a:144:LEU:HD23	2.37	0.49
1:a:291:MET:C	1:a:291:MET:CE	2.85	0.49
1:a:325:GLU:CA	1:b:299:LEU:CD1	2.88	0.49
1:a:452:LEU:HD13	1:a:463:LEU:HD11	1.93	0.49
1:b:159:LYS:HB2	1:c:173:PHE:HD1	1.76	0.49
1:c:61:VAL:HB	1:d:351:ARG:CD	2.40	0.49
1:c:137:LEU:C	1:c:139:VAL:H	2.20	0.49
1:c:291:MET:SD	1:c:292:ILE:N	2.84	0.49
1:c:352:LEU:C	1:c:352:LEU:CD1	2.86	0.49
1:c:397:GLN:N	1:c:397:GLN:NE2	2.60	0.49
1:d:144:LEU:C	1:d:144:LEU:CD2	2.85	0.49
1:d:144:LEU:C	1:d:144:LEU:HD23	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:282:LEU:C	1:d:282:LEU:CD1	2.85	0.49
1:d:397:GLN:N	1:d:397:GLN:NE2	2.60	0.49
1:e:32:GLN:OE1	1:e:43:PHE:HB3	2.12	0.49
1:e:217:ILE:HD13	1:e:251:TYR:CE1	2.47	0.49
1:e:248:ALA:CB	1:e:406:LYS:CD	2.90	0.49
1:e:249:CYS:SG	1:e:407:GLN:HG3	2.51	0.49
1:e:332:LEU:HD23	1:e:333:GLU:O	2.12	0.49
1:f:357:MET:C	1:f:358:LEU:CD2	2.85	0.49
1:f:357:MET:HA	1:f:381:LEU:HD21	1.93	0.49
1:f:408:LEU:C	1:f:414:ILE:HG21	2.37	0.49
1:g:145:LEU:HD13	1:g:145:LEU:O	2.12	0.49
1:g:397:GLN:NE2	1:g:397:GLN:N	2.60	0.49
1:h:140:ALA:CB	1:h:267:SER:H	2.17	0.49
1:h:282:LEU:C	1:h:282:LEU:CD1	2.85	0.49
1:h:332:LEU:HD23	1:h:333:GLU:O	2.13	0.49
1:i:64:ARG:O	1:i:65:GLY:C	2.51	0.49
1:i:130:LEU:C	1:i:130:LEU:CD2	2.85	0.49
1:i:144:LEU:C	1:i:144:LEU:CD2	2.85	0.49
1:i:279:LEU:C	1:i:279:LEU:CD1	2.85	0.49
1:j:130:LEU:C	1:j:130:LEU:CD2	2.85	0.49
1:j:293:SER:O	1:k:288:LYS:CA	2.56	0.49
1:j:408:LEU:C	1:j:414:ILE:HG21	2.37	0.49
1:j:435:ARG:CD	1:j:435:ARG:C	2.85	0.49
1:k:86:LEU:HD23	1:k:424:PRO:CA	2.31	0.49
1:k:130:LEU:C	1:k:130:LEU:CD2	2.85	0.49
1:k:408:LEU:HB3	1:k:414:ILE:CG2	2.41	0.49
1:l:400:LEU:C	1:l:400:LEU:CD1	2.85	0.49
1:l:408:LEU:HB3	1:l:414:ILE:CG2	2.41	0.49
1:a:375:ARG:C	1:a:375:ARG:CD	2.85	0.49
1:a:406:LYS:HA	1:a:406:LYS:CE	2.41	0.49
1:a:450:ALA:CA	1:b:455:MET:CE	2.91	0.49
1:a:476:ILE:HG13	1:b:469:ARG:NH1	2.28	0.49
1:b:134:LEU:C	1:b:134:LEU:CD1	2.84	0.49
1:b:226:TYR:HB2	1:b:244:TYR:CB	2.32	0.49
1:b:369:VAL:CA	1:b:370:THR:HB	2.26	0.49
1:b:397:GLN:NE2	1:b:397:GLN:N	2.60	0.49
1:b:398:LEU:HG	1:b:402:ARG:NH2	2.25	0.49
1:b:481:ILE:HG13	1:c:461:ILE:HG21	1.93	0.49
1:c:43:PHE:CZ	1:c:163:LEU:HB2	2.47	0.49
1:c:130:LEU:O	1:c:130:LEU:HD23	2.12	0.49
1:c:136:GLN:O	1:c:139:VAL:N	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:254:ILE:HG12	1:c:395:GLU:CB	2.29	0.49
1:d:20:LEU:HB3	1:d:167:VAL:CB	2.36	0.49
1:d:61:VAL:HB	1:e:351:ARG:CD	2.40	0.49
1:d:332:LEU:HD23	1:d:333:GLU:O	2.12	0.49
1:e:29:THR:C	1:e:31:ALA:N	2.62	0.49
1:e:130:LEU:O	1:e:130:LEU:HD23	2.12	0.49
1:e:145:LEU:HD13	1:e:145:LEU:O	2.13	0.49
1:e:375:ARG:C	1:e:375:ARG:CD	2.85	0.49
1:f:21:LYS:O	1:f:21:LYS:HG2	2.12	0.49
1:f:130:LEU:C	1:f:130:LEU:CD2	2.85	0.49
1:f:134:LEU:C	1:f:134:LEU:CD1	2.85	0.49
1:f:241:ASP:N	1:f:241:ASP:OD1	2.41	0.49
1:f:277:ARG:NH2	1:f:344:VAL:HG13	2.11	0.49
1:f:279:LEU:C	1:f:279:LEU:CD1	2.86	0.49
1:f:352:LEU:C	1:f:352:LEU:CD1	2.85	0.49
1:g:43:PHE:CZ	1:g:163:LEU:HB2	2.47	0.49
1:g:61:VAL:HB	1:h:351:ARG:CD	2.40	0.49
1:g:248:ALA:CB	1:g:406:LYS:CD	2.90	0.49
1:g:282:LEU:CD2	1:h:277:ARG:NH2	2.74	0.49
1:h:43:PHE:CZ	1:h:163:LEU:HB2	2.47	0.49
1:h:144:LEU:C	1:h:144:LEU:CD2	2.85	0.49
1:h:159:LYS:CE	1:h:161:TYR:CE1	2.88	0.49
1:i:135:LYS:NZ	1:i:135:LYS:HB3	2.26	0.49
1:i:337:ASP:OD1	1:j:340:VAL:HG21	2.12	0.49
1:i:442:LEU:HD13	1:i:442:LEU:C	2.35	0.49
1:j:134:LEU:C	1:j:134:LEU:CD1	2.85	0.49
1:j:291:MET:C	1:j:291:MET:CE	2.85	0.49
1:j:450:ALA:CA	1:k:455:MET:CE	2.89	0.49
1:j:481:ILE:HG13	1:k:461:ILE:HG21	1.94	0.49
1:k:332:LEU:HD23	1:k:333:GLU:O	2.13	0.49
1:k:408:LEU:C	1:k:414:ILE:HG21	2.37	0.49
1:k:435:ARG:C	1:k:435:ARG:CD	2.85	0.49
1:k:452:LEU:HD13	1:k:463:LEU:HD11	1.93	0.49
1:l:43:PHE:CZ	1:l:163:LEU:HB2	2.47	0.49
1:l:137:LEU:C	1:l:139:VAL:H	2.20	0.49
1:l:145:LEU:HD13	1:l:145:LEU:O	2.13	0.49
1:a:159:LYS:HB2	1:b:173:PHE:HD1	1.77	0.49
1:a:226:TYR:HB2	1:a:244:TYR:CB	2.32	0.49
1:a:357:MET:SD	1:a:381:LEU:HD21	2.50	0.49
1:a:419:LYS:HE3	1:a:419:LYS:H	1.73	0.49
1:b:385:LEU:C	1:b:388:VAL:CG2	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:64:ARG:O	1:c:65:GLY:C	2.51	0.49
1:c:83:TRP:NE1	1:c:118:MET:HE1	2.17	0.49
1:c:301:ASN:CB	1:c:326:ASP:OD2	2.60	0.49
1:c:419:LYS:CE	1:c:419:LYS:N	2.71	0.49
1:d:408:LEU:C	1:d:414:ILE:HG21	2.37	0.49
1:e:159:LYS:NZ	1:e:183:ASP:OD2	2.35	0.49
1:f:159:LYS:NZ	1:f:183:ASP:OD2	2.35	0.49
1:f:400:LEU:C	1:f:400:LEU:CD1	2.85	0.49
1:g:435:ARG:C	1:g:435:ARG:CD	2.85	0.49
1:h:29:THR:C	1:h:31:ALA:N	2.62	0.49
1:h:130:LEU:C	1:h:130:LEU:CD2	2.85	0.49
1:h:362:VAL:O	1:h:362:VAL:HG12	2.11	0.49
1:i:352:LEU:C	1:i:352:LEU:CD1	2.85	0.49
1:i:435:ARG:C	1:i:435:ARG:CD	2.85	0.49
1:i:439:LEU:C	1:i:439:LEU:CD1	2.85	0.49
1:j:64:ARG:O	1:j:65:GLY:C	2.51	0.49
1:j:301:ASN:CB	1:j:326:ASP:OD2	2.60	0.49
1:j:332:LEU:HD23	1:j:333:GLU:O	2.12	0.49
1:k:43:PHE:CZ	1:k:163:LEU:HB2	2.47	0.49
1:k:244:TYR:HE2	1:k:250:PRO:HD2	1.71	0.49
1:k:352:LEU:C	1:k:352:LEU:CD1	2.85	0.49
1:l:86:LEU:HD23	1:l:424:PRO:CA	2.31	0.49
1:l:144:LEU:C	1:l:144:LEU:HD23	2.37	0.49
1:a:159:LYS:CE	1:a:161:TYR:CE1	2.88	0.49
1:a:352:LEU:C	1:a:352:LEU:CD1	2.85	0.49
1:a:390:SER:HG	1:l:128:VAL:N	2.11	0.49
1:b:43:PHE:CZ	1:b:163:LEU:HB2	2.47	0.49
1:b:90:GLU:HB2	1:b:95:GLN:HB2	1.93	0.49
1:b:277:ARG:CZ	1:b:351:ARG:HH22	2.21	0.49
1:b:282:LEU:CD2	1:c:277:ARG:NH2	2.75	0.49
1:b:291:MET:C	1:b:291:MET:CE	2.85	0.49
1:b:301:ASN:CB	1:b:326:ASP:OD2	2.60	0.49
1:b:476:ILE:CG1	1:c:469:ARG:NH1	2.75	0.49
1:c:80:MET:CG	1:c:127:ARG:HH21	2.10	0.49
1:c:145:LEU:HD13	1:c:145:LEU:O	2.12	0.49
1:d:17:TYR:CG	1:d:180:VAL:HG11	2.43	0.49
1:d:28:GLU:O	1:d:31:ALA:CB	2.60	0.49
1:d:130:LEU:HD23	1:d:130:LEU:O	2.12	0.49
1:f:59:GLN:NE2	1:f:279:LEU:N	2.60	0.49
1:f:293:SER:O	1:g:288:LYS:CA	2.57	0.49
1:f:397:GLN:N	1:f:397:GLN:NE2	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:21:LYS:O	1:g:21:LYS:HG2	2.12	0.49
1:g:93:ALA:O	1:g:97:LEU:N	2.44	0.49
1:g:128:VAL:N	1:h:390:SER:HG	2.11	0.49
1:g:279:LEU:C	1:g:279:LEU:CD1	2.86	0.49
1:h:17:TYR:CG	1:h:180:VAL:HG11	2.43	0.49
1:h:59:GLN:CD	1:h:279:LEU:H	2.10	0.49
1:h:435:ARG:C	1:h:435:ARG:CD	2.85	0.49
1:i:291:MET:C	1:i:291:MET:CE	2.85	0.49
1:i:408:LEU:C	1:i:414:ILE:HG21	2.37	0.49
1:j:17:TYR:CG	1:j:180:VAL:HG11	2.43	0.49
1:j:32:GLN:OE1	1:j:43:PHE:HB3	2.12	0.49
1:j:142:ASN:ND2	1:j:142:ASN:N	2.59	0.49
1:j:316:THR:CG2	1:k:294:SER:O	2.60	0.49
1:j:352:LEU:C	1:j:352:LEU:CD1	2.85	0.49
1:j:375:ARG:C	1:j:375:ARG:CD	2.85	0.49
1:j:442:LEU:HD13	1:j:442:LEU:C	2.35	0.49
1:l:20:LEU:HB3	1:l:167:VAL:CB	2.35	0.49
1:l:352:LEU:C	1:l:352:LEU:CD1	2.85	0.49
1:l:397:GLN:N	1:l:397:GLN:NE2	2.60	0.49
1:a:83:TRP:NE1	1:a:118:MET:HE1	2.17	0.49
1:a:248:ALA:CB	1:a:406:LYS:CD	2.90	0.49
1:a:300:VAL:HA	1:a:327:ILE:HG22	0.59	0.49
1:a:397:GLN:N	1:a:397:GLN:NE2	2.60	0.49
1:a:469:ARG:NH1	1:l:476:ILE:CG1	2.76	0.49
1:b:331:GLN:HE21	1:c:335:GLN:CA	2.18	0.49
1:c:406:LYS:HA	1:c:406:LYS:CE	2.42	0.49
1:d:86:LEU:HD23	1:d:424:PRO:HB3	0.53	0.49
1:d:226:TYR:HB2	1:d:244:TYR:CB	2.32	0.49
1:d:316:THR:HG22	1:e:294:SER:O	2.13	0.49
1:e:27:TYR:HH	1:e:263:SER:CB	2.15	0.49
1:e:59:GLN:NE2	1:e:279:LEU:N	2.60	0.49
1:f:277:ARG:CZ	1:f:351:ARG:HH22	2.21	0.49
1:f:316:THR:CG2	1:g:294:SER:O	2.60	0.49
1:f:481:ILE:CD1	1:g:466:ILE:HD13	2.18	0.49
1:g:352:LEU:C	1:g:352:LEU:CD1	2.85	0.49
1:h:142:ASN:ND2	1:h:142:ASN:N	2.59	0.49
1:i:257:VAL:HG21	1:i:267:SER:CA	2.40	0.49
1:i:332:LEU:HD23	1:i:333:GLU:O	2.13	0.49
1:i:357:MET:C	1:i:358:LEU:CD2	2.85	0.49
1:i:357:MET:HA	1:i:381:LEU:HD21	1.94	0.49
1:i:408:LEU:HB3	1:i:414:ILE:CG2	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:86:LEU:HD23	1:j:424:PRO:HB3	0.53	0.49
1:j:311:LEU:HD22	1:k:297:ILE:HD13	1.94	0.49
1:j:369:VAL:N	1:j:370:THR:CA	2.73	0.49
1:k:406:LYS:HA	1:k:406:LYS:CE	2.42	0.49
1:l:21:LYS:O	1:l:21:LYS:HG2	2.12	0.49
1:l:68:ASN:HD22	1:l:358:LEU:HD22	1.75	0.49
1:l:130:LEU:C	1:l:130:LEU:CD2	2.85	0.49
1:a:282:LEU:CD2	1:b:277:ARG:NH2	2.76	0.49
1:a:357:MET:CG	1:a:385:LEU:HD23	2.42	0.49
1:b:137:LEU:C	1:b:139:VAL:H	2.20	0.49
1:b:249:CYS:SG	1:b:407:GLN:HG3	2.51	0.49
1:b:309:ARG:CG	1:b:309:ARG:NH1	2.72	0.49
1:b:332:LEU:HD23	1:b:333:GLU:O	2.12	0.49
1:b:357:MET:HA	1:b:381:LEU:HD21	1.93	0.49
1:c:282:LEU:CD2	1:d:277:ARG:NH2	2.75	0.49
1:c:398:LEU:HG	1:c:402:ARG:NH2	2.25	0.49
1:c:435:ARG:C	1:c:435:ARG:CD	2.85	0.49
1:c:481:ILE:HG13	1:d:461:ILE:HG21	1.93	0.49
1:d:159:LYS:HB2	1:e:173:PHE:CD1	2.48	0.49
1:d:375:ARG:C	1:d:375:ARG:CD	2.85	0.49
1:d:419:LYS:CE	1:d:419:LYS:N	2.72	0.49
1:d:435:ARG:C	1:d:435:ARG:CD	2.85	0.49
1:e:90:GLU:HB2	1:e:95:GLN:HB2	1.93	0.49
1:e:144:LEU:C	1:e:144:LEU:HD23	2.37	0.49
1:f:77:LEU:HD22	1:f:78:PHE:CE2	2.43	0.49
1:f:130:LEU:HD23	1:f:130:LEU:O	2.12	0.49
1:f:244:TYR:HE2	1:f:250:PRO:HD2	1.72	0.49
1:g:32:GLN:OE1	1:g:43:PHE:HB3	2.12	0.49
1:g:282:LEU:C	1:g:282:LEU:CD1	2.85	0.49
1:g:416:GLU:CB	1:g:419:LYS:CE	2.85	0.49
1:h:291:MET:C	1:h:291:MET:CE	2.85	0.49
1:h:316:THR:HG22	1:i:294:SER:O	2.13	0.49
1:h:352:LEU:C	1:h:352:LEU:CD1	2.85	0.49
1:h:452:LEU:HD13	1:h:463:LEU:HD11	1.93	0.49
1:i:32:GLN:OE1	1:i:43:PHE:HB3	2.12	0.49
1:i:144:LEU:C	1:i:144:LEU:HD23	2.37	0.49
1:i:359:ASN:OD1	1:j:380:GLU:CG	2.59	0.49
1:j:282:LEU:C	1:j:282:LEU:CD1	2.85	0.49
1:j:325:GLU:CA	1:k:299:LEU:CD1	2.88	0.49
1:k:32:GLN:OE1	1:k:43:PHE:HB3	2.12	0.49
1:k:59:GLN:NE2	1:k:279:LEU:N	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:316:THR:CG2	1:l:294:SER:O	2.61	0.49
1:l:435:ARG:C	1:l:435:ARG:CD	2.85	0.49
1:a:66:LEU:CD2	1:a:66:LEU:C	2.85	0.49
1:a:90:GLU:HB2	1:a:95:GLN:HB2	1.93	0.49
1:a:357:MET:HA	1:a:381:LEU:HD21	1.94	0.49
1:a:385:LEU:C	1:a:388:VAL:CG2	2.80	0.49
1:a:435:ARG:C	1:a:435:ARG:CD	2.85	0.49
1:a:448:ALA:C	1:a:450:ALA:N	2.69	0.49
1:b:331:GLN:HE22	1:c:335:GLN:CA	2.11	0.49
1:b:400:LEU:C	1:b:400:LEU:CD1	2.85	0.49
1:b:442:LEU:CD2	1:b:476:ILE:CG2	2.76	0.49
1:d:293:SER:O	1:e:288:LYS:CA	2.58	0.49
1:e:130:LEU:C	1:e:130:LEU:CD2	2.85	0.49
1:e:397:GLN:N	1:e:397:GLN:NE2	2.60	0.49
1:e:398:LEU:HG	1:e:402:ARG:HH22	1.72	0.49
1:e:400:LEU:C	1:e:400:LEU:CD1	2.85	0.49
1:f:144:LEU:HD23	1:f:144:LEU:C	2.37	0.49
1:g:331:GLN:HE22	1:h:335:GLN:CA	2.13	0.49
1:g:474:ILE:N	1:g:474:ILE:CD1	2.75	0.49
1:h:32:GLN:OE1	1:h:43:PHE:HB3	2.12	0.49
1:h:145:LEU:HD13	1:h:145:LEU:O	2.13	0.49
1:h:408:LEU:HB3	1:h:414:ILE:CG2	2.41	0.49
1:i:254:ILE:CD1	1:i:396:LEU:HD21	2.27	0.49
1:i:282:LEU:C	1:i:282:LEU:CD1	2.85	0.49
1:i:400:LEU:C	1:i:400:LEU:CD1	2.85	0.49
1:j:43:PHE:CZ	1:j:163:LEU:HB2	2.47	0.49
1:j:136:GLN:HE21	1:j:136:GLN:HB2	1.42	0.49
1:j:439:LEU:HD23	1:k:474:ILE:CD1	2.42	0.49
1:k:20:LEU:CA	1:k:167:VAL:HG11	2.35	0.49
1:k:128:VAL:N	1:l:390:SER:HG	2.11	0.49
1:k:279:LEU:C	1:k:279:LEU:CD1	2.86	0.49
1:l:32:GLN:OE1	1:l:43:PHE:HB3	2.12	0.49
1:a:55:GLN:C	1:a:56:THR:CG2	2.85	0.49
1:a:130:LEU:C	1:a:130:LEU:CD2	2.85	0.49
1:a:130:LEU:HD23	1:a:130:LEU:O	2.12	0.49
1:a:311:LEU:HD22	1:b:297:ILE:HD13	1.95	0.49
1:a:332:LEU:HD23	1:a:333:GLU:O	2.12	0.49
1:b:66:LEU:CD2	1:b:66:LEU:C	2.84	0.49
1:b:130:LEU:O	1:b:130:LEU:HD23	2.12	0.49
1:b:145:LEU:HD13	1:b:145:LEU:O	2.13	0.49
1:b:316:THR:HG22	1:c:294:SER:C	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:375:ARG:C	1:b:375:ARG:CD	2.85	0.49
1:b:435:ARG:CD	1:b:435:ARG:C	2.85	0.49
1:c:86:LEU:HD23	1:c:424:PRO:HB3	0.53	0.49
1:c:144:LEU:N	1:c:144:LEU:CD2	2.73	0.49
1:c:291:MET:C	1:c:291:MET:CE	2.85	0.49
1:c:375:ARG:C	1:c:375:ARG:CD	2.85	0.49
1:d:301:ASN:CB	1:d:326:ASP:OD2	2.60	0.49
1:e:244:TYR:HE2	1:e:250:PRO:HD2	1.71	0.49
1:f:137:LEU:C	1:f:139:VAL:H	2.20	0.49
1:g:144:LEU:C	1:g:144:LEU:CD2	2.85	0.49
1:g:159:LYS:HB2	1:h:173:PHE:HD1	1.76	0.49
1:g:370:THR:CG2	1:g:371:ALA:N	2.68	0.49
1:i:119:ASN:O	1:i:123:SER:OG	2.28	0.49
1:j:483:LEU:HG	1:k:462:ASN:HB2	1.93	0.49
1:l:134:LEU:C	1:l:134:LEU:CD1	2.85	0.49
1:a:137:LEU:C	1:a:139:VAL:H	2.21	0.49
1:b:254:ILE:HA	1:b:395:GLU:CB	2.43	0.49
1:b:316:THR:CG2	1:c:294:SER:O	2.60	0.49
1:c:93:ALA:O	1:c:97:LEU:N	2.45	0.49
1:c:463:LEU:HA	1:c:463:LEU:HD13	1.58	0.49
1:d:32:GLN:OE1	1:d:43:PHE:HB3	2.12	0.49
1:d:357:MET:HA	1:d:381:LEU:HD21	1.95	0.49
1:e:43:PHE:CZ	1:e:163:LEU:HB2	2.47	0.49
1:f:128:VAL:N	1:g:390:SER:HG	2.11	0.49
1:f:442:LEU:CD2	1:f:476:ILE:CG2	2.76	0.49
1:g:291:MET:C	1:g:291:MET:CE	2.85	0.49
1:g:299:LEU:HG	1:g:330:LEU:HD22	1.95	0.49
1:h:28:GLU:O	1:h:31:ALA:CB	2.60	0.49
1:h:299:LEU:HG	1:h:330:LEU:HD22	1.95	0.49
1:i:20:LEU:HB3	1:i:167:VAL:CB	2.36	0.49
1:i:20:LEU:CA	1:i:167:VAL:HG11	2.35	0.49
1:i:145:LEU:HD13	1:i:145:LEU:O	2.12	0.49
1:j:55:GLN:C	1:j:56:THR:HG23	2.38	0.49
1:j:159:LYS:HB2	1:k:173:PHE:CD1	2.47	0.49
1:j:357:MET:HA	1:j:381:LEU:HD21	1.95	0.49
1:k:86:LEU:HD23	1:k:424:PRO:HB3	0.53	0.49
1:k:137:LEU:C	1:k:139:VAL:H	2.20	0.49
1:k:299:LEU:HG	1:k:330:LEU:HD22	1.95	0.49
1:l:17:TYR:CG	1:l:180:VAL:HG11	2.43	0.49
1:l:282:LEU:C	1:l:282:LEU:CD1	2.85	0.49
1:a:254:ILE:HA	1:a:395:GLU:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:294:SER:O	1:l:316:THR:CG2	2.61	0.48
1:a:299:LEU:HG	1:a:330:LEU:HD22	1.95	0.48
1:b:279:LEU:C	1:b:279:LEU:CD1	2.86	0.48
1:b:299:LEU:HG	1:b:330:LEU:HD22	1.95	0.48
1:b:316:THR:HG22	1:c:294:SER:O	2.12	0.48
1:b:419:LYS:CE	1:b:419:LYS:N	2.71	0.48
1:c:90:GLU:HB2	1:c:95:GLN:HB2	1.93	0.48
1:d:90:GLU:HB2	1:d:95:GLN:HB2	1.93	0.48
1:d:145:LEU:HD13	1:d:145:LEU:O	2.12	0.48
1:e:279:LEU:C	1:e:279:LEU:CD1	2.86	0.48
1:f:128:VAL:HA	1:g:390:SER:OG	2.08	0.48
1:f:144:LEU:CD2	1:f:144:LEU:C	2.85	0.48
1:f:299:LEU:HG	1:f:330:LEU:HD22	1.95	0.48
1:f:368:ARG:O	1:g:373:GLU:CD	2.55	0.48
1:f:406:LYS:HA	1:f:406:LYS:CE	2.41	0.48
1:f:435:ARG:C	1:f:435:ARG:CD	2.85	0.48
1:g:130:LEU:C	1:g:130:LEU:CD2	2.85	0.48
1:g:400:LEU:C	1:g:400:LEU:CD1	2.85	0.48
1:i:299:LEU:HG	1:i:330:LEU:HD22	1.95	0.48
1:i:452:LEU:HD13	1:i:463:LEU:HD11	1.93	0.48
1:j:452:LEU:HD13	1:j:463:LEU:HD11	1.93	0.48
1:l:66:LEU:CD2	1:l:66:LEU:C	2.84	0.48
1:l:90:GLU:HB2	1:l:95:GLN:HB2	1.93	0.48
1:l:249:CYS:SG	1:l:407:GLN:HG3	2.52	0.48
1:a:14:LYS:HB3	1:a:15:SER:HA	1.96	0.48
1:a:32:GLN:OE1	1:a:43:PHE:HB3	2.12	0.48
1:a:128:VAL:CG1	1:b:390:SER:HG	2.09	0.48
1:a:297:ILE:HG23	1:l:320:VAL:CG1	2.32	0.48
1:a:299:LEU:O	1:a:327:ILE:HB	2.14	0.48
1:b:282:LEU:C	1:b:282:LEU:CD1	2.85	0.48
1:b:406:LYS:HA	1:b:406:LYS:CE	2.41	0.48
1:c:257:VAL:CB	1:c:267:SER:HB3	2.32	0.48
1:c:476:ILE:CG1	1:d:469:ARG:NH1	2.76	0.48
1:d:291:MET:C	1:d:291:MET:CE	2.85	0.48
1:d:398:LEU:HG	1:d:402:ARG:NH2	2.25	0.48
1:e:406:LYS:HA	1:e:406:LYS:CE	2.42	0.48
1:e:408:LEU:C	1:e:414:ILE:HG21	2.37	0.48
1:e:439:LEU:CD2	1:f:474:ILE:CD1	2.91	0.48
1:f:20:LEU:N	1:f:20:LEU:HD22	2.28	0.48
1:f:291:MET:C	1:f:291:MET:CE	2.85	0.48
1:f:332:LEU:HD23	1:f:333:GLU:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:481:ILE:HG13	1:g:461:ILE:HG21	1.94	0.48
1:g:130:LEU:O	1:g:130:LEU:HD23	2.12	0.48
1:g:146:TYR:OH	1:g:228:ARG:NH2	2.47	0.48
1:g:253:PRO:O	1:g:253:PRO:HG2	2.13	0.48
1:h:14:LYS:HB3	1:h:15:SER:HA	1.96	0.48
1:h:146:TYR:OH	1:h:228:ARG:NH2	2.46	0.48
1:h:448:ALA:C	1:h:450:ALA:N	2.69	0.48
1:i:244:TYR:HE2	1:i:250:PRO:HD2	1.71	0.48
1:j:130:LEU:O	1:j:130:LEU:HD23	2.12	0.48
1:j:159:LYS:HB2	1:k:173:PHE:HD1	1.78	0.48
1:j:300:VAL:CA	1:j:327:ILE:CG2	2.22	0.48
1:l:254:ILE:HA	1:l:395:GLU:CB	2.43	0.48
1:l:277:ARG:CZ	1:l:351:ARG:HH22	2.20	0.48
1:a:279:LEU:C	1:a:279:LEU:CD1	2.85	0.48
1:a:352:LEU:HA	1:a:352:LEU:HD22	1.47	0.48
1:a:483:LEU:HG	1:b:462:ASN:HB2	1.93	0.48
1:b:86:LEU:HD23	1:b:424:PRO:HB3	0.53	0.48
1:c:259:LEU:C	1:c:259:LEU:CD1	2.85	0.48
1:c:299:LEU:O	1:c:327:ILE:HB	2.14	0.48
1:d:130:LEU:C	1:d:130:LEU:CD2	2.85	0.48
1:d:337:ASP:OD1	1:e:340:VAL:HG21	2.14	0.48
1:d:406:LYS:HA	1:d:406:LYS:CE	2.41	0.48
1:d:481:ILE:HG13	1:e:461:ILE:HG21	1.94	0.48
1:d:483:LEU:HG	1:e:462:ASN:HB2	1.94	0.48
1:e:291:MET:C	1:e:291:MET:CE	2.85	0.48
1:e:435:ARG:CD	1:e:435:ARG:C	2.85	0.48
1:f:20:LEU:CA	1:f:167:VAL:HG11	2.35	0.48
1:f:80:MET:CG	1:f:127:ARG:HH21	2.10	0.48
1:f:145:LEU:HD13	1:f:145:LEU:O	2.13	0.48
1:f:299:LEU:O	1:f:327:ILE:HB	2.13	0.48
1:f:316:THR:HG22	1:g:294:SER:O	2.13	0.48
1:f:337:ASP:OD1	1:g:340:VAL:HG21	2.13	0.48
1:g:325:GLU:CA	1:h:299:LEU:CD1	2.87	0.48
1:h:21:LYS:O	1:h:21:LYS:HG2	2.12	0.48
1:h:144:LEU:C	1:h:144:LEU:HD23	2.37	0.48
1:h:316:THR:CG2	1:i:294:SER:O	2.61	0.48
1:h:474:ILE:N	1:h:474:ILE:CD1	2.74	0.48
1:i:80:MET:SD	1:i:127:ARG:NH2	2.87	0.48
1:i:140:ALA:CB	1:i:267:SER:H	2.17	0.48
1:i:142:ASN:ND2	1:i:142:ASN:N	2.59	0.48
1:i:299:LEU:O	1:i:327:ILE:HB	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:476:ILE:HG13	1:j:469:ARG:NH1	2.28	0.48
1:j:14:LYS:HB3	1:j:15:SER:HA	1.95	0.48
1:j:80:MET:SD	1:j:127:ARG:NH2	2.87	0.48
1:j:86:LEU:HD23	1:j:424:PRO:CA	2.31	0.48
1:j:90:GLU:HB2	1:j:95:GLN:HB2	1.93	0.48
1:j:299:LEU:HG	1:j:330:LEU:HD22	1.95	0.48
1:k:247:GLU:CD	1:k:247:GLU:N	2.72	0.48
1:l:299:LEU:HG	1:l:330:LEU:HD22	1.95	0.48
1:l:309:ARG:CG	1:l:309:ARG:NH1	2.72	0.48
1:a:254:ILE:CD1	1:a:396:LEU:HD21	2.27	0.48
1:a:277:ARG:NH2	1:l:282:LEU:CD2	2.76	0.48
1:b:14:LYS:HB3	1:b:15:SER:HA	1.96	0.48
1:b:83:TRP:NE1	1:b:118:MET:HE1	2.17	0.48
1:b:136:GLN:HE21	1:b:136:GLN:HB2	1.42	0.48
1:b:147:LEU:CG	1:b:407:GLN:NE2	2.69	0.48
1:b:299:LEU:O	1:b:327:ILE:HB	2.14	0.48
1:c:299:LEU:HG	1:c:330:LEU:HD22	1.95	0.48
1:c:398:LEU:HA	1:c:398:LEU:HD13	1.48	0.48
1:d:21:LYS:O	1:d:21:LYS:HG2	2.12	0.48
1:d:145:LEU:C	1:d:145:LEU:CD1	2.84	0.48
1:e:20:LEU:N	1:e:20:LEU:HD22	2.28	0.48
1:f:483:LEU:HB2	1:g:460:ASP:C	2.38	0.48
1:h:80:MET:SD	1:h:127:ARG:NH2	2.87	0.48
1:h:253:PRO:O	1:h:253:PRO:HG2	2.14	0.48
1:i:14:LYS:HB3	1:i:15:SER:HA	1.96	0.48
1:i:480:GLY:C	1:j:465:MET:HG2	2.34	0.48
1:j:128:VAL:HG21	1:k:258:ARG:HH12	1.72	0.48
1:j:282:LEU:CD2	1:k:277:ARG:NH2	2.77	0.48
1:j:309:ARG:CG	1:j:309:ARG:NH1	2.72	0.48
1:j:476:ILE:HG13	1:k:469:ARG:NH1	2.28	0.48
1:k:80:MET:SD	1:k:127:ARG:NH2	2.87	0.48
1:k:254:ILE:HA	1:k:395:GLU:CB	2.43	0.48
1:l:14:LYS:HB3	1:l:15:SER:HA	1.96	0.48
1:l:68:ASN:HD21	1:l:358:LEU:HD13	1.77	0.48
1:l:247:GLU:CD	1:l:247:GLU:N	2.72	0.48
1:l:259:LEU:C	1:l:259:LEU:CD1	2.85	0.48
1:l:332:LEU:HD23	1:l:333:GLU:O	2.12	0.48
1:l:474:ILE:N	1:l:474:ILE:CD1	2.75	0.48
1:a:86:LEU:HD23	1:a:424:PRO:HB3	0.53	0.48
1:a:145:LEU:HD13	1:a:145:LEU:O	2.12	0.48
1:a:442:LEU:CD2	1:a:476:ILE:CG2	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:130:LEU:CD2	1:b:130:LEU:C	2.85	0.48
1:c:125:SER:O	1:c:129:THR:HG22	2.14	0.48
1:c:159:LYS:NZ	1:c:183:ASP:OD2	2.35	0.48
1:d:402:ARG:CG	1:d:402:ARG:NH1	2.72	0.48
1:e:299:LEU:O	1:e:327:ILE:HB	2.14	0.48
1:e:342:LYS:C	1:e:342:LYS:CD	2.85	0.48
1:f:146:TYR:OH	1:f:228:ARG:NH2	2.46	0.48
1:f:226:TYR:HB2	1:f:244:TYR:CB	2.32	0.48
1:f:439:LEU:HD23	1:g:474:ILE:CD1	2.43	0.48
1:g:14:LYS:HB3	1:g:15:SER:HA	1.96	0.48
1:g:55:GLN:C	1:g:56:THR:HG23	2.38	0.48
1:g:144:LEU:C	1:g:144:LEU:HD23	2.37	0.48
1:h:183:ASP:OD2	1:i:262:GLU:OE2	2.32	0.48
1:i:253:PRO:O	1:i:253:PRO:HG2	2.13	0.48
1:i:282:LEU:CD2	1:j:277:ARG:NH2	2.75	0.48
1:i:397:GLN:HG2	1:i:426:ILE:HG21	1.85	0.48
1:j:316:THR:HG22	1:k:294:SER:O	2.13	0.48
1:k:137:LEU:C	1:k:139:VAL:N	2.72	0.48
1:l:59:GLN:NE2	1:l:279:LEU:N	2.60	0.48
1:l:86:LEU:HD23	1:l:424:PRO:HB3	0.53	0.48
1:a:93:ALA:O	1:a:97:LEU:N	2.44	0.48
1:a:128:VAL:HG21	1:b:258:ARG:HH12	1.72	0.48
1:a:299:LEU:CD1	1:l:325:GLU:CA	2.88	0.48
1:b:253:PRO:O	1:b:253:PRO:HG2	2.14	0.48
1:b:370:THR:HG21	1:b:372:GLU:CD	2.39	0.48
1:b:416:GLU:CB	1:b:419:LYS:CE	2.85	0.48
1:c:59:GLN:NE2	1:c:279:LEU:N	2.60	0.48
1:e:20:LEU:HD13	1:e:20:LEU:HA	1.50	0.48
1:f:253:PRO:O	1:f:253:PRO:HG2	2.13	0.48
1:g:54:TYR:CD2	1:g:56:THR:HG23	2.49	0.48
1:g:125:SER:O	1:g:129:THR:HG22	2.14	0.48
1:g:299:LEU:O	1:g:327:ILE:HB	2.13	0.48
1:h:72:LYS:HA	1:h:72:LYS:NZ	2.28	0.48
1:h:128:VAL:HG21	1:i:258:ARG:HH12	1.73	0.48
1:h:254:ILE:HA	1:h:395:GLU:CB	2.43	0.48
1:h:299:LEU:O	1:h:327:ILE:HB	2.14	0.48
1:h:335:GLN:N	1:h:335:GLN:CD	2.71	0.48
1:i:183:ASP:OD2	1:j:262:GLU:OE2	2.32	0.48
1:i:248:ALA:CB	1:i:406:LYS:CD	2.90	0.48
1:i:254:ILE:CD1	1:i:396:LEU:HD22	2.22	0.48
1:i:416:GLU:CB	1:i:419:LYS:CE	2.85	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:450:ALA:CA	1:j:455:MET:CE	2.91	0.48
1:j:279:LEU:C	1:j:279:LEU:CD1	2.86	0.48
1:j:288:LYS:CE	1:j:335:GLN:HB3	2.44	0.48
1:j:320:VAL:CG1	1:k:297:ILE:HG23	2.33	0.48
1:j:392:LEU:HD12	1:j:392:LEU:C	2.39	0.48
1:j:481:ILE:CD1	1:k:466:ILE:HD13	2.16	0.48
1:k:14:LYS:HB3	1:k:15:SER:HA	1.96	0.48
1:k:128:VAL:HG21	1:l:258:ARG:HH12	1.73	0.48
1:k:145:LEU:HD13	1:k:145:LEU:O	2.12	0.48
1:k:282:LEU:CD2	1:l:277:ARG:NH2	2.75	0.48
1:k:369:VAL:HG23	1:k:369:VAL:O	2.14	0.48
1:l:80:MET:SD	1:l:127:ARG:NH2	2.87	0.48
1:l:125:SER:O	1:l:129:THR:HG22	2.14	0.48
1:l:248:ALA:CB	1:l:406:LYS:CD	2.90	0.48
1:l:279:LEU:C	1:l:279:LEU:CD1	2.86	0.48
1:l:323:ARG:HD3	1:l:323:ARG:HA	1.62	0.48
1:l:392:LEU:HD12	1:l:392:LEU:C	2.39	0.48
1:a:247:GLU:CD	1:a:247:GLU:N	2.72	0.48
1:b:20:LEU:N	1:b:20:LEU:HD22	2.27	0.48
1:b:225:GLU:C	1:b:243:THR:O	2.40	0.48
1:c:252:ILE:O	1:c:252:ILE:HD13	2.14	0.48
1:c:382:GLU:OE2	1:c:389:TYR:CZ	2.67	0.48
1:d:128:VAL:HA	1:e:390:SER:OG	2.09	0.48
1:d:299:LEU:O	1:d:327:ILE:HB	2.13	0.48
1:d:299:LEU:HG	1:d:330:LEU:HD22	1.95	0.48
1:d:398:LEU:HG	1:d:402:ARG:HH22	1.72	0.48
1:e:93:ALA:O	1:e:97:LEU:N	2.44	0.48
1:e:299:LEU:HG	1:e:330:LEU:HD22	1.95	0.48
1:e:316:THR:CG2	1:f:294:SER:O	2.62	0.48
1:e:450:ALA:HA	1:f:455:MET:CE	2.44	0.48
1:f:137:LEU:C	1:f:139:VAL:N	2.72	0.48
1:g:159:LYS:NZ	1:g:183:ASP:OD2	2.35	0.48
1:h:55:GLN:C	1:h:56:THR:HG23	2.39	0.48
1:i:20:LEU:N	1:i:20:LEU:HD22	2.28	0.48
1:i:27:TYR:CZ	1:i:263:SER:OG	2.52	0.48
1:i:146:TYR:OH	1:i:228:ARG:NH2	2.47	0.48
1:i:254:ILE:HG12	1:i:395:GLU:CB	2.29	0.48
1:i:288:LYS:CE	1:i:335:GLN:HB3	2.44	0.48
1:i:382:GLU:OE2	1:i:389:TYR:CZ	2.67	0.48
1:i:474:ILE:N	1:i:474:ILE:CD1	2.75	0.48
1:j:247:GLU:CD	1:j:247:GLU:N	2.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:249:CYS:SG	1:j:407:GLN:HG3	2.51	0.48
1:j:299:LEU:O	1:j:327:ILE:HB	2.13	0.48
1:j:382:GLU:OE2	1:j:389:TYR:CZ	2.67	0.48
1:j:474:ILE:N	1:j:474:ILE:CD1	2.74	0.48
1:k:316:THR:HG22	1:l:294:SER:O	2.13	0.48
1:k:474:ILE:N	1:k:474:ILE:CD1	2.75	0.48
1:l:20:LEU:HD22	1:l:20:LEU:N	2.27	0.48
1:l:27:TYR:HE2	1:l:263:SER:HB3	1.77	0.48
1:a:262:GLU:OE2	1:l:183:ASP:OD2	2.32	0.48
1:a:408:LEU:C	1:a:414:ILE:HG21	2.37	0.48
1:c:14:LYS:HB3	1:c:15:SER:HA	1.96	0.48
1:c:137:LEU:C	1:c:139:VAL:N	2.72	0.48
1:d:137:LEU:C	1:d:139:VAL:N	2.72	0.48
1:d:144:LEU:N	1:d:144:LEU:CD2	2.73	0.48
1:d:146:TYR:HE1	1:d:251:TYR:CE2	2.32	0.48
1:d:382:GLU:OE2	1:d:389:TYR:CZ	2.67	0.48
1:e:125:SER:O	1:e:129:THR:HG22	2.14	0.48
1:g:80:MET:SD	1:g:127:ARG:NH2	2.87	0.48
1:g:128:VAL:HG21	1:h:258:ARG:HH12	1.72	0.48
1:g:162:ARG:NH1	1:h:259:LEU:HD22	2.21	0.48
1:g:368:ARG:O	1:h:373:GLU:CD	2.56	0.48
1:i:128:VAL:HG21	1:j:258:ARG:HH12	1.73	0.48
1:k:55:GLN:C	1:k:56:THR:HG23	2.39	0.48
1:k:157:PRO:HG3	1:l:173:PHE:HB2	1.91	0.48
1:l:225:GLU:HB3	1:l:243:THR:HB	1.94	0.48
1:l:299:LEU:O	1:l:327:ILE:HB	2.13	0.48
1:a:80:MET:SD	1:a:127:ARG:NH2	2.87	0.48
1:a:137:LEU:C	1:a:139:VAL:N	2.72	0.48
1:a:357:MET:HE1	1:a:381:LEU:HD11	0.48	0.48
1:b:80:MET:CG	1:b:127:ARG:HH21	2.10	0.48
1:c:130:LEU:C	1:c:130:LEU:CD2	2.85	0.48
1:c:254:ILE:HA	1:c:395:GLU:CB	2.43	0.48
1:d:93:ALA:O	1:d:97:LEU:N	2.44	0.48
1:e:137:LEU:C	1:e:139:VAL:N	2.72	0.48
1:e:316:THR:HG22	1:f:294:SER:C	2.39	0.48
1:e:316:THR:HG22	1:f:294:SER:O	2.14	0.48
1:f:135:LYS:HB3	1:f:135:LYS:HZ3	1.79	0.48
1:f:183:ASP:OD2	1:g:262:GLU:OE2	2.32	0.48
1:f:247:GLU:CD	1:f:247:GLU:N	2.72	0.48
1:h:137:LEU:C	1:h:139:VAL:H	2.20	0.48
1:i:20:LEU:CB	1:i:167:VAL:CG1	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:147:LEU:CG	1:i:407:GLN:NE2	2.69	0.48
1:i:254:ILE:HA	1:i:395:GLU:CB	2.43	0.48
1:i:368:ARG:C	1:i:370:THR:CB	2.85	0.48
1:j:20:LEU:CA	1:j:167:VAL:HG11	2.35	0.48
1:j:254:ILE:CD1	1:j:396:LEU:HD22	2.22	0.48
1:j:258:ARG:HH12	1:j:391:ILE:CD1	2.14	0.48
1:k:299:LEU:O	1:k:327:ILE:HB	2.14	0.48
1:k:325:GLU:HA	1:l:299:LEU:HD11	1.95	0.48
1:l:416:GLU:CB	1:l:419:LYS:NZ	2.77	0.48
1:c:59:GLN:CD	1:c:279:LEU:H	2.10	0.48
1:c:110:LEU:CD1	1:c:110:LEU:C	2.85	0.48
1:c:145:LEU:C	1:c:145:LEU:CD1	2.84	0.48
1:c:248:ALA:CB	1:c:406:LYS:CD	2.90	0.48
1:c:332:LEU:HD23	1:c:333:GLU:O	2.12	0.48
1:c:442:LEU:CD2	1:c:476:ILE:CG2	2.76	0.48
1:d:258:ARG:NH1	1:d:258:ARG:CG	2.72	0.48
1:d:368:ARG:O	1:e:373:GLU:CD	2.56	0.48
1:d:483:LEU:HB2	1:e:460:ASP:C	2.39	0.48
1:e:27:TYR:HE2	1:e:263:SER:HB3	1.77	0.48
1:f:248:ALA:CB	1:f:406:LYS:CD	2.90	0.48
1:g:20:LEU:HD22	1:g:20:LEU:N	2.27	0.48
1:g:137:LEU:C	1:g:139:VAL:N	2.72	0.48
1:g:244:TYR:HE2	1:g:250:PRO:HD2	1.72	0.48
1:h:276:LEU:HD12	1:h:276:LEU:HA	1.58	0.48
1:h:288:LYS:CE	1:h:335:GLN:HB3	2.44	0.48
1:h:382:GLU:OE2	1:h:389:TYR:CZ	2.67	0.48
1:h:400:LEU:C	1:h:400:LEU:CD1	2.85	0.48
1:i:17:TYR:HE2	1:i:182:ARG:HD3	1.60	0.48
1:i:125:SER:O	1:i:129:THR:HG22	2.14	0.48
1:i:159:LYS:CE	1:i:161:TYR:CE1	2.87	0.48
1:i:247:GLU:CD	1:i:247:GLU:N	2.71	0.48
1:i:248:ALA:HB1	1:i:406:LYS:CB	2.33	0.48
1:i:335:GLN:N	1:i:335:GLN:CD	2.71	0.48
1:j:125:SER:O	1:j:129:THR:HG22	2.14	0.48
1:j:140:ALA:CB	1:j:267:SER:H	2.17	0.48
1:j:183:ASP:OD2	1:k:262:GLU:OE2	2.32	0.48
1:j:416:GLU:CB	1:j:419:LYS:NZ	2.77	0.48
1:k:316:THR:HG22	1:l:294:SER:C	2.39	0.48
1:a:253:PRO:O	1:a:253:PRO:HG2	2.13	0.47
1:a:463:LEU:HA	1:a:463:LEU:HD13	1.58	0.47
1:b:55:GLN:C	1:b:56:THR:HG23	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:146:TYR:OH	1:b:228:ARG:NH2	2.46	0.47
1:b:183:ASP:OD2	1:c:262:GLU:OE2	2.31	0.47
1:b:293:SER:OG	1:c:288:LYS:NZ	2.31	0.47
1:b:416:GLU:CB	1:b:419:LYS:NZ	2.77	0.47
1:c:279:LEU:C	1:c:279:LEU:CD1	2.86	0.47
1:d:286:ILE:HA	1:d:286:ILE:HD13	1.56	0.47
1:e:20:LEU:HB3	1:e:167:VAL:CB	2.36	0.47
1:e:252:ILE:O	1:e:252:ILE:HD13	2.14	0.47
1:f:72:LYS:HA	1:f:72:LYS:NZ	2.28	0.47
1:f:282:LEU:CD2	1:g:277:ARG:NH2	2.77	0.47
1:f:420:GLU:HA	1:f:421:ALA:HA	1.36	0.47
1:g:254:ILE:HA	1:g:395:GLU:CB	2.43	0.47
1:h:463:LEU:HD13	1:h:463:LEU:HA	1.58	0.47
1:i:311:LEU:HD22	1:j:297:ILE:HD13	1.95	0.47
1:i:316:THR:CG2	1:j:294:SER:O	2.61	0.47
1:j:248:ALA:HB1	1:j:406:LYS:CB	2.33	0.47
1:j:248:ALA:CB	1:j:406:LYS:CD	2.90	0.47
1:k:258:ARG:HH12	1:k:391:ILE:CD1	2.14	0.47
1:k:416:GLU:CD	1:k:419:LYS:NZ	2.62	0.47
1:k:439:LEU:CD2	1:l:474:ILE:CD1	2.91	0.47
1:a:21:LYS:O	1:a:21:LYS:HG2	2.12	0.47
1:a:86:LEU:HD23	1:a:424:PRO:CA	2.31	0.47
1:a:125:SER:O	1:a:129:THR:HG22	2.14	0.47
1:a:294:SER:O	1:l:316:THR:HG22	2.14	0.47
1:a:466:ILE:HD13	1:l:481:ILE:CD1	2.15	0.47
1:a:486:GLU:H	1:a:486:GLU:HG2	1.34	0.47
1:b:408:LEU:C	1:b:414:ILE:HG21	2.37	0.47
1:c:225:GLU:HB3	1:c:243:THR:HB	1.94	0.47
1:d:14:LYS:HB3	1:d:15:SER:HA	1.96	0.47
1:d:342:LYS:C	1:d:342:LYS:CD	2.86	0.47
1:d:400:LEU:C	1:d:400:LEU:CD1	2.85	0.47
1:e:77:LEU:HD22	1:e:78:PHE:CE2	2.43	0.47
1:e:247:GLU:CD	1:e:247:GLU:N	2.72	0.47
1:e:253:PRO:O	1:e:253:PRO:HG2	2.14	0.47
1:e:254:ILE:HA	1:e:395:GLU:CB	2.43	0.47
1:f:80:MET:SD	1:f:127:ARG:NH2	2.87	0.47
1:f:125:SER:O	1:f:129:THR:HG22	2.14	0.47
1:f:288:LYS:CE	1:f:335:GLN:HB3	2.44	0.47
1:f:359:ASN:OD1	1:g:380:GLU:CG	2.61	0.47
1:g:288:LYS:CE	1:g:335:GLN:HB3	2.44	0.47
1:g:316:THR:HG22	1:h:294:SER:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:27:TYR:CZ	1:h:263:SER:OG	2.52	0.47
1:i:416:GLU:CB	1:i:419:LYS:NZ	2.77	0.47
1:j:28:GLU:O	1:j:31:ALA:CB	2.60	0.47
1:j:137:LEU:C	1:j:139:VAL:N	2.72	0.47
1:j:254:ILE:CD1	1:j:396:LEU:HD21	2.27	0.47
1:j:406:LYS:HA	1:j:406:LYS:HZ2	1.71	0.47
1:k:125:SER:O	1:k:129:THR:HG22	2.14	0.47
1:k:183:ASP:OD2	1:l:262:GLU:OE2	2.32	0.47
1:k:406:LYS:HA	1:k:406:LYS:HZ2	1.76	0.47
1:l:27:TYR:HH	1:l:263:SER:CB	2.17	0.47
1:l:68:ASN:HD22	1:l:358:LEU:CD1	2.27	0.47
1:l:258:ARG:HH12	1:l:391:ILE:CD1	2.14	0.47
1:a:146:TYR:OH	1:a:228:ARG:NH2	2.46	0.47
1:a:252:ILE:O	1:a:252:ILE:HD13	2.14	0.47
1:a:258:ARG:HH12	1:l:128:VAL:HG21	1.73	0.47
1:b:480:GLY:O	1:c:465:MET:HG3	2.15	0.47
1:c:20:LEU:HD22	1:c:20:LEU:N	2.28	0.47
1:c:183:ASP:OD2	1:d:262:GLU:OE2	2.31	0.47
1:c:316:THR:CG2	1:d:294:SER:O	2.62	0.47
1:c:342:LYS:C	1:c:342:LYS:CD	2.85	0.47
1:c:416:GLU:CB	1:c:419:LYS:NZ	2.77	0.47
1:d:179:MET:HB3	1:d:217:ILE:HD12	1.95	0.47
1:e:146:TYR:OH	1:e:228:ARG:NH2	2.46	0.47
1:e:179:MET:HB3	1:e:217:ILE:HD12	1.95	0.47
1:e:439:LEU:HD23	1:f:473:ALA:HB3	1.94	0.47
1:f:14:LYS:HB3	1:f:15:SER:HA	1.96	0.47
1:f:254:ILE:HA	1:f:395:GLU:CB	2.43	0.47
1:f:357:MET:O	1:f:358:LEU:HD22	2.14	0.47
1:h:125:SER:O	1:h:129:THR:HG22	2.14	0.47
1:h:225:GLU:HB3	1:h:243:THR:HB	1.94	0.47
1:h:248:ALA:HB1	1:h:406:LYS:CB	2.33	0.47
1:h:279:LEU:C	1:h:279:LEU:CD1	2.86	0.47
1:h:416:GLU:CB	1:h:419:LYS:NZ	2.77	0.47
1:i:146:TYR:HH	1:i:251:TYR:HE2	1.61	0.47
1:i:316:THR:HG22	1:j:294:SER:O	2.14	0.47
1:j:54:TYR:CD2	1:j:56:THR:HG23	2.49	0.47
1:j:146:TYR:OH	1:j:228:ARG:NH2	2.46	0.47
1:j:225:GLU:HB3	1:j:243:THR:HB	1.94	0.47
1:j:259:LEU:HD13	1:j:260:ASP:N	2.29	0.47
1:j:370:THR:O	1:j:371:ALA:C	2.57	0.47
1:k:253:PRO:O	1:k:253:PRO:HG2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:382:GLU:OE2	1:k:389:TYR:CZ	2.67	0.47
1:k:480:GLY:O	1:l:465:MET:HG3	2.14	0.47
1:a:316:THR:CG2	1:b:294:SER:O	2.62	0.47
1:a:392:LEU:HD12	1:a:392:LEU:C	2.39	0.47
1:b:296:VAL:HG11	1:c:332:LEU:CD1	2.43	0.47
1:c:325:GLU:CA	1:d:299:LEU:CD1	2.87	0.47
1:d:137:LEU:C	1:d:139:VAL:H	2.20	0.47
1:d:248:ALA:CB	1:d:406:LYS:CD	2.90	0.47
1:e:14:LYS:HB3	1:e:15:SER:HA	1.96	0.47
1:e:382:GLU:OE2	1:e:389:TYR:CZ	2.67	0.47
1:e:420:GLU:HA	1:e:421:ALA:HA	1.36	0.47
1:f:255:ARG:H	1:f:395:GLU:CD	2.22	0.47
1:f:368:ARG:C	1:f:370:THR:CB	2.84	0.47
1:g:20:LEU:CA	1:g:167:VAL:HG11	2.35	0.47
1:g:255:ARG:H	1:g:395:GLU:CD	2.22	0.47
1:g:316:THR:CG2	1:h:294:SER:O	2.62	0.47
1:i:259:LEU:HD13	1:i:260:ASP:N	2.30	0.47
1:i:442:LEU:CD2	1:i:476:ILE:CG2	2.77	0.47
1:j:316:THR:HG22	1:k:294:SER:C	2.39	0.47
1:j:463:LEU:HD13	1:j:463:LEU:HA	1.59	0.47
1:k:59:GLN:HE21	1:k:278:SER:CB	2.15	0.47
1:k:252:ILE:O	1:k:252:ILE:HD13	2.14	0.47
1:k:255:ARG:H	1:k:395:GLU:CD	2.22	0.47
1:k:288:LYS:CE	1:k:335:GLN:HB3	2.44	0.47
1:k:369:VAL:N	1:k:370:THR:CA	2.74	0.47
1:k:439:LEU:HD23	1:l:473:ALA:HB3	1.95	0.47
1:l:137:LEU:C	1:l:139:VAL:N	2.72	0.47
1:a:258:ARG:HH12	1:a:391:ILE:CD1	2.14	0.47
1:a:288:LYS:CE	1:a:335:GLN:HB3	2.44	0.47
1:a:294:SER:C	1:l:316:THR:HG22	2.40	0.47
1:b:105:LYS:HD3	1:b:105:LYS:N	2.30	0.47
1:b:256:MET:HG2	1:b:267:SER:OG	2.15	0.47
1:b:482:LEU:HD23	1:b:482:LEU:HA	1.52	0.47
1:c:256:MET:HG2	1:c:267:SER:OG	2.15	0.47
1:c:316:THR:HG22	1:d:294:SER:O	2.14	0.47
1:d:80:MET:SD	1:d:127:ARG:NH2	2.87	0.47
1:d:125:SER:O	1:d:129:THR:HG22	2.14	0.47
1:d:247:GLU:CD	1:d:247:GLU:N	2.71	0.47
1:d:252:ILE:N	1:d:252:ILE:CD1	2.72	0.47
1:d:316:THR:HG22	1:e:294:SER:C	2.39	0.47
1:d:416:GLU:CB	1:d:419:LYS:NZ	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:439:LEU:HD23	1:e:474:ILE:CD1	2.43	0.47
1:d:450:ALA:CA	1:e:455:MET:CE	2.92	0.47
1:e:80:MET:SD	1:e:127:ARG:NH2	2.87	0.47
1:e:225:GLU:HB3	1:e:243:THR:HB	1.94	0.47
1:e:297:ILE:HB	1:e:330:LEU:HD21	1.97	0.47
1:e:309:ARG:CG	1:e:309:ARG:NH1	2.72	0.47
1:e:325:GLU:HA	1:f:299:LEU:HD11	1.93	0.47
1:f:289:MET:HE2	1:g:340:VAL:HB	1.96	0.47
1:g:323:ARG:HD3	1:g:323:ARG:HA	1.62	0.47
1:g:439:LEU:HD23	1:h:473:ALA:HB3	1.96	0.47
1:h:17:TYR:CG	1:h:180:VAL:CG1	2.98	0.47
1:h:254:ILE:CD1	1:h:396:LEU:HD22	2.22	0.47
1:h:316:THR:HG22	1:i:294:SER:C	2.39	0.47
1:i:17:TYR:CG	1:i:180:VAL:CG1	2.98	0.47
1:j:45:LYS:HE3	1:j:45:LYS:HB3	1.47	0.47
1:j:56:THR:HB	1:j:57:PRO:HD2	1.95	0.47
1:j:252:ILE:O	1:j:252:ILE:HD13	2.14	0.47
1:j:256:MET:HG2	1:j:267:SER:OG	2.15	0.47
1:k:146:TYR:OH	1:k:228:ARG:NH2	2.46	0.47
1:k:416:GLU:CB	1:k:419:LYS:NZ	2.77	0.47
1:l:105:LYS:HD3	1:l:105:LYS:N	2.30	0.47
1:l:146:TYR:OH	1:l:228:ARG:NH2	2.47	0.47
1:a:288:LYS:NZ	1:l:293:SER:OG	2.33	0.47
1:b:80:MET:SD	1:b:127:ARG:NH2	2.87	0.47
1:b:147:LEU:HA	1:b:148:PRO:HD3	1.69	0.47
1:c:398:LEU:HG	1:c:402:ARG:HH22	1.72	0.47
1:c:408:LEU:C	1:c:414:ILE:HG21	2.37	0.47
1:d:176:VAL:HG11	1:d:179:MET:HE3	1.97	0.47
1:d:253:PRO:O	1:d:253:PRO:HG2	2.14	0.47
1:d:254:ILE:HA	1:d:395:GLU:CB	2.43	0.47
1:d:335:GLN:N	1:d:335:GLN:CD	2.71	0.47
1:d:397:GLN:HG2	1:d:426:ILE:HG21	1.85	0.47
1:e:354:PHE:O	1:e:357:MET:HE1	2.02	0.47
1:e:397:GLN:HG2	1:e:426:ILE:HG21	1.85	0.47
1:f:128:VAL:HG21	1:g:258:ARG:HH12	1.73	0.47
1:f:136:GLN:O	1:f:139:VAL:N	2.39	0.47
1:f:159:LYS:HB2	1:g:173:PHE:HD1	1.78	0.47
1:f:297:ILE:HB	1:f:330:LEU:HD21	1.97	0.47
1:g:402:ARG:CG	1:g:402:ARG:NH1	2.72	0.47
1:h:179:MET:HB3	1:h:217:ILE:HD12	1.95	0.47
1:h:247:GLU:CD	1:h:247:GLU:N	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:249:CYS:SG	1:h:407:GLN:HG3	2.52	0.47
1:h:255:ARG:H	1:h:395:GLU:CD	2.22	0.47
1:h:259:LEU:HD13	1:h:260:ASP:N	2.30	0.47
1:h:277:ARG:CZ	1:h:351:ARG:HH22	2.21	0.47
1:h:358:LEU:N	1:h:358:LEU:HD23	2.29	0.47
1:h:368:ARG:O	1:i:373:GLU:CD	2.57	0.47
1:h:439:LEU:CD2	1:i:474:ILE:CD1	2.92	0.47
1:i:255:ARG:H	1:i:395:GLU:CD	2.22	0.47
1:j:17:TYR:CG	1:j:180:VAL:CG1	2.98	0.47
1:j:105:LYS:N	1:j:105:LYS:HD3	2.30	0.47
1:j:442:LEU:HD22	1:j:442:LEU:HA	1.43	0.47
1:l:110:LEU:CD1	1:l:110:LEU:C	2.85	0.47
1:l:254:ILE:CD1	1:l:396:LEU:HD21	2.27	0.47
1:a:144:LEU:O	1:a:251:TYR:HB2	2.15	0.47
1:a:256:MET:HG2	1:a:267:SER:OG	2.15	0.47
1:a:277:ARG:CZ	1:a:351:ARG:HH22	2.21	0.47
1:a:400:LEU:C	1:a:400:LEU:CD1	2.85	0.47
1:a:416:GLU:CB	1:a:419:LYS:NZ	2.77	0.47
1:b:86:LEU:HD23	1:b:424:PRO:CA	2.31	0.47
1:b:93:ALA:O	1:b:97:LEU:N	2.44	0.47
1:b:144:LEU:O	1:b:251:TYR:HB2	2.15	0.47
1:b:342:LYS:C	1:b:342:LYS:CD	2.85	0.47
1:b:371:ALA:O	1:b:375:ARG:N	2.26	0.47
1:c:80:MET:SD	1:c:127:ARG:NH2	2.87	0.47
1:c:144:LEU:O	1:c:251:TYR:HB2	2.14	0.47
1:c:146:TYR:OH	1:c:228:ARG:NH2	2.46	0.47
1:c:249:CYS:SG	1:c:407:GLN:HG3	2.51	0.47
1:c:288:LYS:CE	1:c:335:GLN:HB3	2.44	0.47
1:c:323:ARG:HD3	1:c:323:ARG:HA	1.62	0.47
1:c:335:GLN:N	1:c:335:GLN:CD	2.71	0.47
1:c:357:MET:C	1:c:358:LEU:HD22	2.40	0.47
1:c:359:ASN:OD1	1:d:380:GLU:OE1	2.06	0.47
1:c:439:LEU:CD2	1:d:474:ILE:CD1	2.93	0.47
1:d:146:TYR:OH	1:d:228:ARG:NH2	2.47	0.47
1:d:256:MET:HG2	1:d:267:SER:OG	2.15	0.47
1:d:276:LEU:HD12	1:d:276:LEU:HA	1.58	0.47
1:d:297:ILE:HB	1:d:330:LEU:HD21	1.97	0.47
1:e:72:LYS:HA	1:e:72:LYS:NZ	2.28	0.47
1:e:296:VAL:HG11	1:f:332:LEU:CD1	2.45	0.47
1:e:338:PHE:HB3	1:f:340:VAL:HG23	1.97	0.47
1:e:416:GLU:CB	1:e:419:LYS:NZ	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:448:ALA:C	1:e:450:ALA:N	2.69	0.47
1:f:252:ILE:HD13	1:f:252:ILE:O	2.14	0.47
1:f:319:PHE:HE2	1:g:311:LEU:HB3	1.54	0.47
1:f:392:LEU:HD12	1:f:392:LEU:C	2.39	0.47
1:g:17:TYR:CG	1:g:180:VAL:CG1	2.98	0.47
1:g:72:LYS:HA	1:g:72:LYS:NZ	2.28	0.47
1:g:105:LYS:N	1:g:105:LYS:HD3	2.30	0.47
1:g:110:LEU:CD1	1:g:110:LEU:C	2.85	0.47
1:g:252:ILE:O	1:g:252:ILE:HD13	2.14	0.47
1:g:338:PHE:HB3	1:h:340:VAL:HG23	1.96	0.47
1:g:416:GLU:CB	1:g:419:LYS:NZ	2.77	0.47
1:g:439:LEU:CD2	1:h:474:ILE:CD1	2.92	0.47
1:h:20:LEU:CA	1:h:167:VAL:HG11	2.35	0.47
1:h:105:LYS:HD3	1:h:105:LYS:N	2.30	0.47
1:h:354:PHE:O	1:h:357:MET:HE1	2.03	0.47
1:h:400:LEU:HA	1:h:400:LEU:HD22	1.42	0.47
1:i:72:LYS:HA	1:i:72:LYS:NZ	2.28	0.47
1:i:179:MET:HB3	1:i:217:ILE:HD12	1.95	0.47
1:i:357:MET:C	1:i:358:LEU:HD22	2.40	0.47
1:i:406:LYS:HE2	1:i:406:LYS:HB2	1.59	0.47
1:j:159:LYS:CE	1:j:161:TYR:CE1	2.88	0.47
1:j:254:ILE:HA	1:j:395:GLU:CB	2.43	0.47
1:j:255:ARG:H	1:j:395:GLU:CD	2.22	0.47
1:j:335:GLN:N	1:j:335:GLN:CD	2.71	0.47
1:k:17:TYR:CG	1:k:180:VAL:CG1	2.98	0.47
1:k:248:ALA:HB1	1:k:406:LYS:CB	2.33	0.47
1:k:259:LEU:HD13	1:k:260:ASP:N	2.29	0.47
1:l:20:LEU:HA	1:l:20:LEU:HD13	1.50	0.47
1:l:362:VAL:O	1:l:362:VAL:HG12	2.14	0.47
1:l:442:LEU:HD22	1:l:442:LEU:HA	1.43	0.47
1:a:59:GLN:HE21	1:a:278:SER:CB	2.15	0.47
1:a:293:SER:OG	1:b:288:LYS:NZ	2.33	0.47
1:a:476:ILE:CG1	1:b:469:ARG:NH1	2.78	0.47
1:b:40:PRO:HA	1:b:41:SER:HA	1.65	0.47
1:b:125:SER:O	1:b:129:THR:HG22	2.14	0.47
1:b:325:GLU:HA	1:c:299:LEU:HD11	1.95	0.47
1:c:253:PRO:O	1:c:253:PRO:HG2	2.14	0.47
1:d:20:LEU:HD22	1:d:20:LEU:N	2.27	0.47
1:d:252:ILE:O	1:d:252:ILE:HD13	2.14	0.47
1:e:17:TYR:HE2	1:e:182:ARG:HD3	1.60	0.47
1:e:183:ASP:OD2	1:f:262:GLU:OE2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:446:VAL:HG21	1:f:452:LEU:HD23	1.95	0.47
1:f:370:THR:CG2	1:f:371:ALA:N	2.67	0.47
1:f:416:GLU:CB	1:f:419:LYS:NZ	2.77	0.47
1:g:17:TYR:HE2	1:g:182:ARG:HD3	1.60	0.47
1:g:297:ILE:HB	1:g:330:LEU:HD21	1.97	0.47
1:h:370:THR:O	1:h:371:ALA:C	2.56	0.47
1:i:105:LYS:N	1:i:105:LYS:HD3	2.30	0.47
1:i:252:ILE:O	1:i:252:ILE:HD13	2.14	0.47
1:j:179:MET:HB3	1:j:217:ILE:HD12	1.95	0.47
1:k:225:GLU:C	1:k:243:THR:O	2.40	0.47
1:k:254:ILE:CD1	1:k:396:LEU:HD22	2.22	0.47
1:l:159:LYS:CE	1:l:161:TYR:CE1	2.88	0.47
1:l:288:LYS:CE	1:l:335:GLN:HB3	2.44	0.47
1:l:408:LEU:C	1:l:414:ILE:HG21	2.37	0.47
1:a:55:GLN:N	1:a:55:GLN:CD	2.72	0.47
1:b:137:LEU:C	1:b:139:VAL:N	2.72	0.47
1:b:176:VAL:HG11	1:b:179:MET:HE3	1.97	0.47
1:b:276:LEU:HD12	1:b:276:LEU:HA	1.58	0.47
1:b:450:ALA:N	1:c:455:MET:HE3	2.29	0.47
1:c:20:LEU:HB3	1:c:167:VAL:CB	2.36	0.47
1:c:142:ASN:ND2	1:c:142:ASN:C	2.72	0.47
1:c:176:VAL:HG11	1:c:179:MET:HE3	1.97	0.47
1:c:179:MET:HB3	1:c:217:ILE:HD12	1.95	0.47
1:c:247:GLU:CD	1:c:247:GLU:N	2.72	0.47
1:c:255:ARG:H	1:c:395:GLU:CD	2.22	0.47
1:d:288:LYS:CE	1:d:335:GLN:HB3	2.44	0.47
1:e:105:LYS:HD3	1:e:105:LYS:N	2.30	0.47
1:e:176:VAL:HG11	1:e:179:MET:HE3	1.97	0.47
1:e:288:LYS:CE	1:e:335:GLN:HB3	2.44	0.47
1:e:394:GLN:N	1:e:394:GLN:CD	2.73	0.47
1:e:402:ARG:CG	1:e:402:ARG:NH1	2.72	0.47
1:e:480:GLY:O	1:f:465:MET:HG3	2.14	0.47
1:f:59:GLN:HE21	1:f:278:SER:CB	2.15	0.47
1:f:176:VAL:HG11	1:f:179:MET:HE3	1.97	0.47
1:g:247:GLU:CD	1:g:247:GLU:N	2.72	0.47
1:g:259:LEU:HD13	1:g:260:ASP:N	2.30	0.47
1:h:256:MET:HG2	1:h:267:SER:OG	2.15	0.47
1:h:450:ALA:HA	1:i:455:MET:CE	2.45	0.47
1:i:370:THR:O	1:i:371:ALA:C	2.57	0.47
1:i:394:GLN:N	1:i:394:GLN:CD	2.73	0.47
1:j:146:TYR:HE1	1:j:251:TYR:CE2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:296:VAL:HG11	1:k:332:LEU:CD1	2.45	0.47
1:j:406:LYS:HE2	1:j:406:LYS:HB2	1.58	0.47
1:k:176:VAL:HG11	1:k:179:MET:HE3	1.97	0.47
1:k:248:ALA:CB	1:k:406:LYS:CD	2.90	0.47
1:k:254:ILE:CD1	1:k:396:LEU:HD21	2.27	0.47
1:l:176:VAL:HG11	1:l:179:MET:HE3	1.97	0.47
1:l:394:GLN:CD	1:l:394:GLN:N	2.73	0.47
1:b:247:GLU:CD	1:b:247:GLU:N	2.72	0.47
1:b:252:ILE:O	1:b:252:ILE:HD13	2.14	0.47
1:c:258:ARG:NH1	1:c:258:ARG:CG	2.72	0.47
1:c:357:MET:O	1:c:358:LEU:HD22	2.14	0.47
1:d:105:LYS:HD3	1:d:105:LYS:N	2.30	0.47
1:d:144:LEU:O	1:d:251:TYR:HB2	2.15	0.47
1:d:442:LEU:CD2	1:d:476:ILE:CG2	2.77	0.47
1:e:450:ALA:N	1:f:455:MET:HE3	2.26	0.47
1:f:20:LEU:HB3	1:f:167:VAL:CB	2.35	0.47
1:f:27:TYR:HE2	1:f:263:SER:HB3	1.77	0.47
1:g:140:ALA:N	1:g:267:SER:O	2.48	0.47
1:g:316:THR:HG22	1:h:294:SER:C	2.40	0.47
1:g:342:LYS:C	1:g:342:LYS:CD	2.85	0.47
1:g:352:LEU:HA	1:g:352:LEU:HD22	1.47	0.47
1:h:144:LEU:O	1:h:251:TYR:HB2	2.15	0.47
1:h:439:LEU:HD23	1:i:473:ALA:HB3	1.96	0.47
1:i:21:LYS:O	1:i:21:LYS:HG2	2.12	0.47
1:i:56:THR:CG2	1:j:273:LEU:HD12	2.31	0.47
1:j:72:LYS:HA	1:j:72:LYS:NZ	2.28	0.47
1:j:253:PRO:O	1:j:253:PRO:HG2	2.13	0.47
1:k:105:LYS:N	1:k:105:LYS:HD3	2.29	0.47
1:k:159:LYS:CE	1:k:161:TYR:CE1	2.88	0.47
1:k:309:ARG:HD3	1:k:309:ARG:HA	1.40	0.47
1:k:335:GLN:N	1:k:335:GLN:CD	2.71	0.47
1:k:396:LEU:HA	1:k:396:LEU:HD13	1.60	0.47
1:l:142:ASN:ND2	1:l:142:ASN:C	2.72	0.47
1:l:256:MET:HG2	1:l:267:SER:OG	2.15	0.47
1:l:382:GLU:OE2	1:l:389:TYR:CZ	2.67	0.47
1:l:466:ILE:HD13	1:l:466:ILE:HA	1.58	0.47
1:a:72:LYS:HA	1:a:72:LYS:NZ	2.28	0.46
1:a:357:MET:HG2	1:a:385:LEU:HD23	1.97	0.46
1:b:145:LEU:C	1:b:145:LEU:CD1	2.84	0.46
1:b:288:LYS:CE	1:b:335:GLN:HB3	2.44	0.46
1:c:394:GLN:N	1:c:394:GLN:CD	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:463:LEU:HA	1:d:463:LEU:HD13	1.59	0.46
1:f:316:THR:HG22	1:g:294:SER:C	2.40	0.46
1:f:446:VAL:HG23	1:g:452:LEU:HD21	1.77	0.46
1:g:179:MET:HB3	1:g:217:ILE:HD12	1.95	0.46
1:g:256:MET:HG2	1:g:267:SER:OG	2.15	0.46
1:g:406:LYS:HB2	1:g:406:LYS:HE2	1.58	0.46
1:h:80:MET:CB	1:h:127:ARG:NH2	2.73	0.46
1:h:338:PHE:HB3	1:i:340:VAL:HG23	1.97	0.46
1:i:86:LEU:HD23	1:i:424:PRO:CA	2.31	0.46
1:i:316:THR:HG22	1:j:294:SER:C	2.40	0.46
1:i:357:MET:O	1:i:358:LEU:HD22	2.14	0.46
1:j:59:GLN:HE21	1:j:278:SER:CB	2.15	0.46
1:k:394:GLN:CD	1:k:394:GLN:N	2.73	0.46
1:l:140:ALA:N	1:l:267:SER:O	2.48	0.46
1:l:147:LEU:HA	1:l:148:PRO:HD3	1.68	0.46
1:l:252:ILE:O	1:l:252:ILE:HD13	2.14	0.46
1:a:20:LEU:HD22	1:a:20:LEU:N	2.27	0.46
1:a:80:MET:CG	1:a:127:ARG:HH21	2.11	0.46
1:a:105:LYS:HD3	1:a:105:LYS:N	2.30	0.46
1:a:140:ALA:N	1:a:267:SER:O	2.48	0.46
1:b:142:ASN:ND2	1:b:142:ASN:C	2.72	0.46
1:b:439:LEU:CD2	1:c:474:ILE:CD1	2.93	0.46
1:d:140:ALA:N	1:d:267:SER:O	2.48	0.46
1:d:255:ARG:H	1:d:395:GLU:CD	2.21	0.46
1:e:110:LEU:CD1	1:e:110:LEU:C	2.85	0.46
1:e:256:MET:HG2	1:e:267:SER:OG	2.15	0.46
1:f:140:ALA:N	1:f:267:SER:O	2.48	0.46
1:f:162:ARG:NH1	1:g:259:LEU:HD22	2.22	0.46
1:f:249:CYS:SG	1:f:407:GLN:HG3	2.51	0.46
1:g:144:LEU:O	1:g:251:TYR:HB2	2.15	0.46
1:g:170:ARG:CZ	1:g:177:LEU:HD11	2.46	0.46
1:g:398:LEU:HA	1:g:398:LEU:HD13	1.48	0.46
1:h:392:LEU:HD12	1:h:392:LEU:C	2.39	0.46
1:i:40:PRO:HA	1:i:41:SER:HA	1.65	0.46
1:i:144:LEU:O	1:i:251:TYR:HB2	2.15	0.46
1:j:176:VAL:HG11	1:j:179:MET:HE3	1.97	0.46
1:j:225:GLU:C	1:j:243:THR:O	2.40	0.46
1:k:140:ALA:CB	1:k:267:SER:H	2.17	0.46
1:a:176:VAL:HG11	1:a:179:MET:HE3	1.97	0.46
1:a:255:ARG:H	1:a:395:GLU:CD	2.22	0.46
1:a:348:ILE:HD12	1:a:348:ILE:HA	1.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:255:ARG:H	1:b:395:GLU:CD	2.22	0.46
1:d:40:PRO:HG2	1:d:40:PRO:O	2.16	0.46
1:d:282:LEU:CD2	1:e:277:ARG:NH2	2.78	0.46
1:e:42:LEU:HA	1:e:42:LEU:HD13	1.42	0.46
1:e:140:ALA:N	1:e:267:SER:O	2.48	0.46
1:e:352:LEU:HD22	1:e:352:LEU:HA	1.47	0.46
1:e:486:GLU:H	1:e:486:GLU:HG2	1.34	0.46
1:f:40:PRO:O	1:f:40:PRO:HG2	2.16	0.46
1:f:170:ARG:CZ	1:f:177:LEU:HD11	2.46	0.46
1:f:256:MET:HG2	1:f:267:SER:OG	2.15	0.46
1:f:357:MET:C	1:f:358:LEU:HD22	2.40	0.46
1:f:382:GLU:OE2	1:f:389:TYR:CZ	2.67	0.46
1:f:402:ARG:CG	1:f:402:ARG:NH1	2.72	0.46
1:f:416:GLU:CB	1:f:419:LYS:CE	2.85	0.46
1:g:176:VAL:HG11	1:g:179:MET:HE3	1.97	0.46
1:g:183:ASP:OD2	1:h:262:GLU:OE2	2.33	0.46
1:g:248:ALA:HB1	1:g:406:LYS:CB	2.33	0.46
1:h:110:LEU:CD1	1:h:110:LEU:C	2.85	0.46
1:h:170:ARG:CZ	1:h:177:LEU:HD11	2.45	0.46
1:h:176:VAL:HG11	1:h:179:MET:HE3	1.97	0.46
1:i:86:LEU:HD23	1:i:86:LEU:HA	1.54	0.46
1:j:27:TYR:HE2	1:j:263:SER:HB3	1.77	0.46
1:j:126:TYR:CE1	1:j:158:MET:CB	2.74	0.46
1:j:391:ILE:HD13	1:j:391:ILE:HA	1.63	0.46
1:j:398:LEU:HA	1:j:398:LEU:HD13	1.49	0.46
1:k:450:ALA:HA	1:l:455:MET:CE	2.46	0.46
1:l:396:LEU:HD13	1:l:396:LEU:HA	1.60	0.46
1:a:142:ASN:ND2	1:a:142:ASN:C	2.72	0.46
1:a:439:LEU:HD23	1:b:474:ILE:HD11	1.98	0.46
1:b:17:TYR:CG	1:b:180:VAL:CG1	2.98	0.46
1:b:325:GLU:CA	1:c:299:LEU:CD1	2.87	0.46
1:c:140:ALA:N	1:c:267:SER:O	2.48	0.46
1:c:259:LEU:HD13	1:c:260:ASP:N	2.30	0.46
1:c:392:LEU:HD12	1:c:392:LEU:C	2.39	0.46
1:c:442:LEU:HD22	1:c:442:LEU:HA	1.43	0.46
1:d:311:LEU:HD22	1:e:297:ILE:HD13	1.97	0.46
1:f:59:GLN:H	1:f:279:LEU:HD21	1.17	0.46
1:f:311:LEU:HD22	1:g:297:ILE:HD13	1.96	0.46
1:f:397:GLN:HG2	1:f:426:ILE:HG21	1.85	0.46
1:h:140:ALA:N	1:h:267:SER:O	2.48	0.46
1:h:244:TYR:HE2	1:h:250:PRO:HD2	1.71	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:252:ILE:O	1:h:252:ILE:HD13	2.14	0.46
1:h:296:VAL:HG11	1:i:332:LEU:CD1	2.45	0.46
1:i:176:VAL:HG11	1:i:179:MET:HE3	1.97	0.46
1:j:394:GLN:N	1:j:394:GLN:CD	2.73	0.46
1:j:476:ILE:CG1	1:k:469:ARG:NH1	2.78	0.46
1:k:398:LEU:HA	1:k:398:LEU:HD13	1.48	0.46
1:a:170:ARG:CZ	1:a:177:LEU:HD11	2.45	0.46
1:a:356:PHE:C	1:a:358:LEU:N	2.72	0.46
1:a:455:MET:HE3	1:l:450:ALA:N	2.30	0.46
1:a:465:MET:HG3	1:l:480:GLY:O	2.15	0.46
1:b:59:GLN:HE21	1:b:278:SER:CB	2.15	0.46
1:b:259:LEU:C	1:b:259:LEU:CD1	2.85	0.46
1:b:398:LEU:HG	1:b:402:ARG:HH22	1.72	0.46
1:b:442:LEU:HD22	1:b:442:LEU:HA	1.43	0.46
1:c:105:LYS:HD3	1:c:105:LYS:N	2.30	0.46
1:d:17:TYR:CG	1:d:180:VAL:CG1	2.98	0.46
1:d:411:THR:HG23	1:d:411:THR:O	2.16	0.46
1:e:77:LEU:C	1:e:77:LEU:CD2	2.85	0.46
1:e:128:VAL:HG21	1:f:258:ARG:HH12	1.72	0.46
1:e:170:ARG:CZ	1:e:177:LEU:HD11	2.46	0.46
1:e:257:VAL:HG21	1:e:267:SER:HA	1.98	0.46
1:f:105:LYS:HD3	1:f:105:LYS:N	2.30	0.46
1:f:144:LEU:O	1:f:251:TYR:HB2	2.15	0.46
1:f:450:ALA:CA	1:g:455:MET:CE	2.93	0.46
1:g:59:GLN:CD	1:g:279:LEU:H	2.10	0.46
1:g:276:LEU:HD12	1:g:276:LEU:HA	1.58	0.46
1:g:370:THR:O	1:g:371:ALA:C	2.57	0.46
1:h:40:PRO:O	1:h:40:PRO:HG2	2.16	0.46
1:h:137:LEU:C	1:h:139:VAL:N	2.72	0.46
1:h:159:LYS:NZ	1:h:183:ASP:OD2	2.35	0.46
1:h:248:ALA:CB	1:h:406:LYS:CD	2.90	0.46
1:h:297:ILE:HB	1:h:330:LEU:HD21	1.97	0.46
1:h:486:GLU:H	1:h:486:GLU:HG2	1.34	0.46
1:i:170:ARG:CZ	1:i:177:LEU:HD11	2.45	0.46
1:i:256:MET:HG2	1:i:267:SER:OG	2.15	0.46
1:i:348:ILE:HD12	1:i:348:ILE:HA	1.54	0.46
1:i:411:THR:O	1:i:411:THR:HG23	2.16	0.46
1:j:77:LEU:C	1:j:77:LEU:CD2	2.85	0.46
1:j:411:THR:O	1:j:411:THR:HG23	2.16	0.46
1:k:40:PRO:O	1:k:40:PRO:HG2	2.16	0.46
1:k:140:ALA:N	1:k:267:SER:O	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:482:LEU:HD23	1:k:482:LEU:HA	1.52	0.46
1:l:17:TYR:HE2	1:l:182:ARG:HD3	1.60	0.46
1:l:286:ILE:HA	1:l:286:ILE:HD13	1.56	0.46
1:a:126:TYR:CE1	1:a:158:MET:CB	2.74	0.46
1:a:371:ALA:C	1:a:373:GLU:N	2.73	0.46
1:a:442:LEU:HD22	1:a:442:LEU:HA	1.43	0.46
1:b:259:LEU:HD13	1:b:260:ASP:N	2.30	0.46
1:c:249:CYS:HG	1:c:407:GLN:HG2	1.78	0.46
1:c:297:ILE:HB	1:c:330:LEU:HD21	1.97	0.46
1:d:259:LEU:HD13	1:d:260:ASP:N	2.30	0.46
1:e:21:LYS:O	1:e:21:LYS:HG2	2.12	0.46
1:e:331:GLN:HE21	1:f:335:GLN:CA	2.18	0.46
1:e:450:ALA:CA	1:f:455:MET:HE3	2.45	0.46
1:g:450:ALA:HA	1:h:455:MET:CE	2.46	0.46
1:h:394:GLN:N	1:h:394:GLN:CD	2.73	0.46
1:h:398:LEU:HA	1:h:398:LEU:HD13	1.48	0.46
1:h:458:ASP:HA	1:h:459:PRO:HD3	1.85	0.46
1:h:466:ILE:HD13	1:h:466:ILE:HA	1.59	0.46
1:i:17:TYR:CG	1:i:17:TYR:O	2.69	0.46
1:i:59:GLN:HE21	1:i:278:SER:CB	2.14	0.46
1:i:396:LEU:HD13	1:i:396:LEU:HA	1.60	0.46
1:i:398:LEU:HA	1:i:398:LEU:HD13	1.48	0.46
1:i:446:VAL:HG21	1:j:452:LEU:HD23	1.96	0.46
1:j:40:PRO:HG2	1:j:40:PRO:O	2.16	0.46
1:j:420:GLU:HA	1:j:421:ALA:HA	1.35	0.46
1:j:466:ILE:HD13	1:j:466:ILE:HA	1.59	0.46
1:k:144:LEU:O	1:k:251:TYR:HB2	2.15	0.46
1:k:277:ARG:HG3	1:k:278:SER:N	2.31	0.46
1:l:144:LEU:O	1:l:251:TYR:HB2	2.15	0.46
1:l:255:ARG:H	1:l:395:GLU:CD	2.22	0.46
1:b:17:TYR:CG	1:b:17:TYR:O	2.69	0.46
1:b:398:LEU:HD13	1:b:398:LEU:HA	1.48	0.46
1:b:450:ALA:HA	1:c:455:MET:CE	2.46	0.46
1:c:411:THR:O	1:c:411:THR:HG23	2.16	0.46
1:d:27:TYR:HE2	1:d:263:SER:HB3	1.77	0.46
1:d:257:VAL:HG21	1:d:267:SER:HA	1.98	0.46
1:d:442:LEU:HD22	1:d:442:LEU:HA	1.43	0.46
1:f:279:LEU:HA	1:f:279:LEU:HD22	1.77	0.46
1:g:59:GLN:HE21	1:g:278:SER:CB	2.15	0.46
1:g:482:LEU:HD23	1:g:482:LEU:HA	1.52	0.46
1:h:17:TYR:CG	1:h:17:TYR:O	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:20:LEU:HD22	1:h:20:LEU:N	2.28	0.46
1:h:286:ILE:HD11	1:i:281:ASN:OD1	2.16	0.46
1:h:476:ILE:CG1	1:i:469:ARG:HH12	2.29	0.46
1:i:140:ALA:N	1:i:267:SER:O	2.48	0.46
1:i:476:ILE:CG1	1:j:469:ARG:NH1	2.78	0.46
1:j:144:LEU:O	1:j:251:TYR:HB2	2.15	0.46
1:k:72:LYS:HA	1:k:72:LYS:NZ	2.28	0.46
1:k:256:MET:HG2	1:k:267:SER:OG	2.15	0.46
1:k:300:VAL:HB	1:k:327:ILE:HG21	1.81	0.46
1:k:420:GLU:HA	1:k:421:ALA:HA	1.36	0.46
1:l:146:TYR:HE1	1:l:251:TYR:CE2	2.32	0.46
1:l:259:LEU:HD13	1:l:260:ASP:N	2.30	0.46
1:a:17:TYR:CG	1:a:17:TYR:O	2.69	0.46
1:a:257:VAL:HG21	1:a:267:SER:HA	1.98	0.46
1:a:259:LEU:HD13	1:a:260:ASP:N	2.29	0.46
1:a:394:GLN:N	1:a:394:GLN:CD	2.73	0.46
1:a:474:ILE:CD1	1:l:439:LEU:CD2	2.93	0.46
1:a:483:LEU:HB2	1:b:460:ASP:C	2.41	0.46
1:b:252:ILE:HG12	1:b:399:PRO:HB3	1.98	0.46
1:c:147:LEU:HB3	1:c:407:GLN:CD	2.41	0.46
1:c:316:THR:HG22	1:d:294:SER:C	2.41	0.46
1:c:338:PHE:HB3	1:d:340:VAL:HG23	1.97	0.46
1:c:435:ARG:C	1:c:435:ARG:HD2	2.41	0.46
1:d:59:GLN:H	1:d:279:LEU:HD21	1.17	0.46
1:d:359:ASN:OD1	1:e:380:GLU:OE1	2.31	0.46
1:e:17:TYR:CG	1:e:180:VAL:CG1	2.98	0.46
1:f:148:PRO:HG3	1:f:156:ASN:CG	2.41	0.46
1:f:259:LEU:HD13	1:f:260:ASP:N	2.30	0.46
1:g:136:GLN:O	1:g:139:VAL:N	2.39	0.46
1:g:325:GLU:HA	1:h:299:LEU:HD11	1.94	0.46
1:g:450:ALA:N	1:h:455:MET:HE3	2.28	0.46
1:g:458:ASP:HA	1:g:459:PRO:HD3	1.85	0.46
1:h:136:GLN:O	1:h:139:VAL:N	2.39	0.46
1:h:257:VAL:HG21	1:h:267:SER:HA	1.98	0.46
1:h:411:THR:O	1:h:411:THR:HG23	2.16	0.46
1:h:435:ARG:C	1:h:435:ARG:HD2	2.41	0.46
1:h:482:LEU:HD23	1:h:482:LEU:HA	1.52	0.46
1:i:20:LEU:HD13	1:i:20:LEU:HA	1.49	0.46
1:i:40:PRO:O	1:i:40:PRO:HG2	2.16	0.46
1:i:45:LYS:HE3	1:i:45:LYS:HB3	1.47	0.46
1:i:483:LEU:HB2	1:j:460:ASP:C	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:489:GLN:OE1	1:i:490:GLN:N	2.49	0.46
1:j:148:PRO:HG3	1:j:156:ASN:CG	2.41	0.46
1:j:170:ARG:CZ	1:j:177:LEU:HD11	2.45	0.46
1:j:416:GLU:CD	1:j:419:LYS:NZ	2.62	0.46
1:k:252:ILE:HG12	1:k:399:PRO:HB3	1.98	0.46
1:k:338:PHE:HB3	1:l:340:VAL:HG23	1.97	0.46
1:k:358:LEU:N	1:k:358:LEU:HD23	2.31	0.46
1:l:170:ARG:CZ	1:l:177:LEU:HD11	2.45	0.46
1:l:297:ILE:HB	1:l:330:LEU:HD21	1.97	0.46
1:l:416:GLU:CB	1:l:419:LYS:CE	2.85	0.46
1:a:17:TYR:CG	1:a:180:VAL:CG1	2.98	0.46
1:a:147:LEU:HB3	1:a:407:GLN:CD	2.41	0.46
1:a:369:VAL:N	1:a:370:THR:HB	2.31	0.46
1:b:244:TYR:OH	1:b:250:PRO:HD3	2.15	0.46
1:b:411:THR:O	1:b:411:THR:HG23	2.16	0.46
1:c:128:VAL:N	1:d:390:SER:HG	2.14	0.46
1:c:309:ARG:HD3	1:c:309:ARG:HA	1.40	0.46
1:c:486:GLU:H	1:c:486:GLU:HG2	1.34	0.46
1:d:128:VAL:HG21	1:e:258:ARG:HH12	1.72	0.46
1:d:183:ASP:OD2	1:e:262:GLU:OE2	2.33	0.46
1:d:227:LEU:HD21	1:d:243:THR:CG2	2.44	0.46
1:e:136:GLN:O	1:e:139:VAL:N	2.39	0.46
1:e:148:PRO:HG3	1:e:156:ASN:CG	2.41	0.46
1:e:286:ILE:HD11	1:f:281:ASN:OD1	2.16	0.46
1:e:323:ARG:HD3	1:e:323:ARG:HA	1.62	0.46
1:e:411:THR:O	1:e:411:THR:HG23	2.16	0.46
1:f:147:LEU:HA	1:f:148:PRO:HD3	1.69	0.46
1:f:257:VAL:HG21	1:f:267:SER:HA	1.98	0.46
1:g:257:VAL:HG21	1:g:267:SER:HA	1.98	0.46
1:g:397:GLN:HG2	1:g:426:ILE:HG21	1.85	0.46
1:g:400:LEU:HD22	1:g:400:LEU:HA	1.43	0.46
1:h:59:GLN:HE21	1:h:278:SER:CB	2.14	0.46
1:h:147:LEU:HB3	1:h:407:GLN:CD	2.41	0.46
1:h:396:LEU:HA	1:h:396:LEU:HD13	1.60	0.46
1:i:147:LEU:HA	1:i:148:PRO:HD3	1.69	0.46
1:i:338:PHE:HB3	1:j:340:VAL:HG23	1.97	0.46
1:j:137:LEU:C	1:j:139:VAL:H	2.20	0.46
1:k:135:LYS:HB3	1:k:135:LYS:HZ3	1.80	0.46
1:k:416:GLU:CB	1:k:419:LYS:CE	2.85	0.46
1:k:439:LEU:HD23	1:l:474:ILE:HD11	1.97	0.46
1:l:40:PRO:HG2	1:l:40:PRO:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:72:LYS:HB2	1:l:72:LYS:NZ	2.24	0.46
1:l:253:PRO:O	1:l:253:PRO:HG2	2.14	0.46
1:l:277:ARG:HG3	1:l:278:SER:N	2.31	0.46
1:a:277:ARG:HG3	1:a:278:SER:N	2.31	0.46
1:a:297:ILE:HB	1:a:330:LEU:HD21	1.97	0.46
1:a:338:PHE:HB3	1:b:340:VAL:HG23	1.96	0.46
1:a:340:VAL:HB	1:l:289:MET:HE2	1.97	0.46
1:a:383:ASP:C	1:a:385:LEU:N	2.74	0.46
1:b:257:VAL:HG21	1:b:267:SER:HA	1.98	0.46
1:b:277:ARG:HG3	1:b:278:SER:N	2.31	0.46
1:b:439:LEU:HD23	1:c:474:ILE:HD11	1.99	0.46
1:c:17:TYR:CG	1:c:180:VAL:CG1	2.98	0.46
1:c:368:ARG:O	1:d:373:GLU:CD	2.59	0.46
1:d:170:ARG:CZ	1:d:177:LEU:HD11	2.45	0.46
1:d:325:GLU:HA	1:e:299:LEU:HD11	1.98	0.46
1:d:392:LEU:HD12	1:d:392:LEU:C	2.39	0.46
1:d:400:LEU:HD22	1:d:400:LEU:HA	1.42	0.46
1:d:435:ARG:C	1:d:435:ARG:HD2	2.41	0.46
1:e:259:LEU:HD13	1:e:260:ASP:N	2.30	0.46
1:e:277:ARG:HG3	1:e:278:SER:N	2.31	0.46
1:e:319:PHE:HE2	1:f:311:LEU:HD13	1.07	0.46
1:e:442:LEU:HD22	1:e:442:LEU:HA	1.43	0.46
1:f:20:LEU:HD13	1:f:20:LEU:HA	1.50	0.46
1:f:179:MET:HB3	1:f:217:ILE:HD12	1.95	0.46
1:g:244:TYR:OH	1:g:250:PRO:HD3	2.15	0.46
1:h:86:LEU:HD23	1:h:424:PRO:CA	2.31	0.46
1:h:342:LYS:C	1:h:342:LYS:CD	2.85	0.46
1:h:480:GLY:O	1:i:465:MET:HG3	2.14	0.46
1:i:17:TYR:CD1	1:i:17:TYR:O	2.69	0.46
1:i:110:LEU:CD1	1:i:110:LEU:C	2.85	0.46
1:j:17:TYR:CD1	1:j:17:TYR:O	2.69	0.46
1:j:20:LEU:N	1:j:20:LEU:HD22	2.27	0.46
1:j:144:LEU:HD23	1:j:144:LEU:O	2.16	0.46
1:k:77:LEU:C	1:k:77:LEU:CD2	2.85	0.46
1:k:144:LEU:HD23	1:k:144:LEU:O	2.16	0.46
1:k:297:ILE:HB	1:k:330:LEU:HD21	1.97	0.46
1:l:16:VAL:HG13	1:l:18:GLU:N	2.31	0.46
1:a:128:VAL:N	1:b:390:SER:HG	2.14	0.45
1:a:252:ILE:HG12	1:a:399:PRO:HB3	1.98	0.45
1:a:474:ILE:HD11	1:l:439:LEU:HD23	1.98	0.45
1:b:16:VAL:HG13	1:b:18:GLU:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:128:VAL:HG21	1:c:258:ARG:HH12	1.73	0.45
1:b:140:ALA:N	1:b:267:SER:O	2.48	0.45
1:b:358:LEU:N	1:b:358:LEU:HD23	2.30	0.45
1:c:40:PRO:O	1:c:40:PRO:HG2	2.16	0.45
1:c:72:LYS:HA	1:c:72:LYS:NZ	2.28	0.45
1:c:352:LEU:HD22	1:c:352:LEU:HA	1.47	0.45
1:d:396:LEU:HA	1:d:396:LEU:HD13	1.59	0.45
1:d:416:GLU:CB	1:d:419:LYS:CE	2.85	0.45
1:e:144:LEU:O	1:e:251:TYR:HB2	2.15	0.45
1:e:147:LEU:HB3	1:e:407:GLN:CD	2.41	0.45
1:e:225:GLU:C	1:e:243:THR:O	2.40	0.45
1:e:226:TYR:HB2	1:e:244:TYR:CB	2.32	0.45
1:e:276:LEU:HD12	1:e:276:LEU:HA	1.58	0.45
1:e:358:LEU:N	1:e:358:LEU:HD23	2.31	0.45
1:e:489:GLN:OE1	1:e:490:GLN:N	2.49	0.45
1:f:140:ALA:HB2	1:f:267:SER:N	2.18	0.45
1:f:147:LEU:HB3	1:f:407:GLN:CD	2.41	0.45
1:f:277:ARG:HG3	1:f:278:SER:N	2.31	0.45
1:f:409:GLN:HG2	1:f:409:GLN:O	2.16	0.45
1:f:414:ILE:O	1:f:414:ILE:HG22	2.16	0.45
1:f:419:LYS:CE	1:f:419:LYS:H	2.29	0.45
1:g:56:THR:HB	1:g:57:PRO:HD2	1.97	0.45
1:g:145:LEU:C	1:g:145:LEU:CD1	2.84	0.45
1:g:296:VAL:HG11	1:h:332:LEU:CD1	2.47	0.45
1:g:409:GLN:O	1:g:409:GLN:HG2	2.17	0.45
1:h:27:TYR:HE2	1:h:263:SER:HB3	1.77	0.45
1:h:146:TYR:HE1	1:h:251:TYR:CE2	2.32	0.45
1:h:148:PRO:HG3	1:h:156:ASN:CG	2.41	0.45
1:h:450:ALA:N	1:i:455:MET:HE3	2.28	0.45
1:i:137:LEU:C	1:i:139:VAL:N	2.72	0.45
1:i:148:PRO:HG3	1:i:156:ASN:CG	2.41	0.45
1:i:362:VAL:O	1:i:362:VAL:HG12	2.15	0.45
1:i:435:ARG:C	1:i:435:ARG:HD2	2.41	0.45
1:i:482:LEU:HD23	1:i:482:LEU:HA	1.52	0.45
1:j:86:LEU:CD2	1:j:424:PRO:CG	2.81	0.45
1:j:147:LEU:HB3	1:j:407:GLN:CD	2.41	0.45
1:j:297:ILE:HB	1:j:330:LEU:HD21	1.97	0.45
1:k:27:TYR:HE2	1:k:263:SER:HB3	1.78	0.45
1:k:170:ARG:CZ	1:k:177:LEU:HD11	2.46	0.45
1:k:179:MET:HB3	1:k:217:ILE:HD12	1.95	0.45
1:k:277:ARG:NH1	1:k:348:ILE:CD1	2.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:383:ASP:C	1:k:385:LEU:N	2.75	0.45
1:k:411:THR:O	1:k:411:THR:HG23	2.16	0.45
1:k:435:ARG:C	1:k:435:ARG:HD2	2.41	0.45
1:l:252:ILE:HG12	1:l:399:PRO:HB3	1.98	0.45
1:l:383:ASP:C	1:l:385:LEU:N	2.75	0.45
1:a:40:PRO:HG2	1:a:40:PRO:O	2.16	0.45
1:a:320:VAL:CG1	1:b:297:ILE:HG23	2.33	0.45
1:a:382:GLU:OE2	1:a:389:TYR:CZ	2.67	0.45
1:a:409:GLN:O	1:a:409:GLN:HG2	2.17	0.45
1:b:126:TYR:C	1:b:129:THR:CG2	2.89	0.45
1:b:179:MET:HB3	1:b:217:ILE:HD12	1.95	0.45
1:b:383:ASP:C	1:b:385:LEU:N	2.75	0.45
1:b:435:ARG:C	1:b:435:ARG:HD2	2.41	0.45
1:b:448:ALA:C	1:b:450:ALA:N	2.69	0.45
1:c:17:TYR:HE2	1:c:182:ARG:HD3	1.60	0.45
1:c:128:VAL:HG21	1:d:258:ARG:HH12	1.73	0.45
1:c:257:VAL:HG21	1:c:267:SER:HA	1.98	0.45
1:c:286:ILE:HD11	1:d:281:ASN:OD1	2.16	0.45
1:d:144:LEU:HD23	1:d:144:LEU:O	2.17	0.45
1:d:352:LEU:HA	1:d:352:LEU:HD22	1.47	0.45
1:d:368:ARG:C	1:d:370:THR:CB	2.82	0.45
1:d:409:GLN:O	1:d:409:GLN:HG2	2.16	0.45
1:d:489:GLN:OE1	1:d:490:GLN:N	2.49	0.45
1:e:17:TYR:CG	1:e:17:TYR:O	2.69	0.45
1:e:255:ARG:H	1:e:395:GLU:CD	2.22	0.45
1:e:419:LYS:CE	1:e:419:LYS:H	2.30	0.45
1:f:252:ILE:HG12	1:f:399:PRO:HB3	1.98	0.45
1:f:254:ILE:HG12	1:f:395:GLU:CB	2.29	0.45
1:g:251:TYR:O	1:g:251:TYR:CD1	2.70	0.45
1:g:252:ILE:HG12	1:g:399:PRO:HB3	1.98	0.45
1:g:254:ILE:CD1	1:g:396:LEU:HD22	2.22	0.45
1:h:17:TYR:CD1	1:h:17:TYR:O	2.70	0.45
1:i:323:ARG:HD3	1:i:323:ARG:HA	1.63	0.45
1:j:252:ILE:HG12	1:j:399:PRO:HB3	1.98	0.45
1:k:86:LEU:HD23	1:k:86:LEU:HA	1.54	0.45
1:k:148:PRO:HG3	1:k:156:ASN:CG	2.41	0.45
1:k:397:GLN:HG2	1:k:426:ILE:HG21	1.85	0.45
1:l:17:TYR:CG	1:l:17:TYR:O	2.69	0.45
1:l:148:PRO:HG3	1:l:156:ASN:CG	2.41	0.45
1:l:381:LEU:C	1:l:381:LEU:CD1	2.84	0.45
1:l:435:ARG:C	1:l:435:ARG:HD2	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:110:LEU:CD1	1:a:110:LEU:C	2.85	0.45
1:a:145:LEU:C	1:a:145:LEU:CD1	2.84	0.45
1:a:183:ASP:OD2	1:b:262:GLU:OE2	2.34	0.45
1:a:373:GLU:CD	1:l:368:ARG:O	2.60	0.45
1:a:414:ILE:O	1:a:414:ILE:HG22	2.17	0.45
1:a:439:LEU:CD2	1:b:474:ILE:CD1	2.94	0.45
1:b:40:PRO:HG2	1:b:40:PRO:O	2.16	0.45
1:b:144:LEU:HD23	1:b:144:LEU:O	2.16	0.45
1:b:409:GLN:O	1:b:409:GLN:HG2	2.16	0.45
1:c:45:LYS:HB3	1:c:45:LYS:HE3	1.47	0.45
1:c:126:TYR:C	1:c:129:THR:CG2	2.89	0.45
1:c:148:PRO:HG3	1:c:156:ASN:CG	2.41	0.45
1:c:289:MET:HE2	1:d:340:VAL:HB	1.98	0.45
1:c:416:GLU:CB	1:c:419:LYS:CE	2.85	0.45
1:e:85:ARG:CA	1:e:114:GLU:OE1	2.65	0.45
1:e:86:LEU:HD23	1:e:86:LEU:HA	1.54	0.45
1:f:225:GLU:C	1:f:243:THR:O	2.40	0.45
1:f:435:ARG:C	1:f:435:ARG:HD2	2.42	0.45
1:f:458:ASP:HA	1:f:459:PRO:HD3	1.85	0.45
1:g:16:VAL:HG13	1:g:18:GLU:N	2.31	0.45
1:g:17:TYR:CD1	1:g:17:TYR:O	2.70	0.45
1:g:144:LEU:HD23	1:g:144:LEU:O	2.17	0.45
1:g:449:TRP:CB	1:h:455:MET:CE	2.68	0.45
1:h:147:LEU:HA	1:h:148:PRO:HD3	1.68	0.45
1:h:251:TYR:O	1:h:251:TYR:CD1	2.70	0.45
1:i:137:LEU:C	1:i:139:VAL:H	2.20	0.45
1:i:257:VAL:HG21	1:i:267:SER:HA	1.98	0.45
1:i:320:VAL:CG1	1:j:297:ILE:HG23	2.33	0.45
1:i:385:LEU:C	1:i:388:VAL:CG2	2.80	0.45
1:i:405:LEU:HD22	1:i:405:LEU:HA	1.78	0.45
1:i:442:LEU:HD22	1:i:442:LEU:HA	1.43	0.45
1:j:140:ALA:N	1:j:267:SER:O	2.48	0.45
1:j:370:THR:CG2	1:j:371:ALA:N	2.69	0.45
1:j:383:ASP:C	1:j:385:LEU:N	2.75	0.45
1:k:370:THR:O	1:k:371:ALA:C	2.58	0.45
1:k:489:GLN:OE1	1:k:490:GLN:N	2.49	0.45
1:l:17:TYR:CD1	1:l:17:TYR:O	2.69	0.45
1:l:309:ARG:HA	1:l:309:ARG:HD3	1.40	0.45
1:l:342:LYS:C	1:l:342:LYS:CD	2.85	0.45
1:a:144:LEU:HD23	1:a:144:LEU:O	2.17	0.45
1:a:281:ASN:OD1	1:l:286:ILE:HD11	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:340:VAL:HG23	1:l:338:PHE:HB3	1.97	0.45
1:a:411:THR:O	1:a:411:THR:HG23	2.16	0.45
1:b:463:LEU:HA	1:b:463:LEU:HD13	1.59	0.45
1:c:252:ILE:HG12	1:c:399:PRO:HB3	1.98	0.45
1:c:277:ARG:HG3	1:c:278:SER:N	2.31	0.45
1:c:383:ASP:C	1:c:385:LEU:N	2.74	0.45
1:c:480:GLY:O	1:d:465:MET:HG3	2.15	0.45
1:d:77:LEU:C	1:d:77:LEU:CD2	2.85	0.45
1:d:85:ARG:CA	1:d:114:GLU:OE1	2.65	0.45
1:d:110:LEU:CD1	1:d:110:LEU:C	2.85	0.45
1:d:148:PRO:HG3	1:d:156:ASN:CG	2.41	0.45
1:d:414:ILE:O	1:d:414:ILE:HG22	2.17	0.45
1:d:476:ILE:HG13	1:e:469:ARG:NH1	2.31	0.45
1:d:489:GLN:O	1:d:491:LYS:N	2.50	0.45
1:e:40:PRO:O	1:e:40:PRO:HG2	2.16	0.45
1:e:98:SER:OG	1:e:102:GLY:N	2.50	0.45
1:e:400:LEU:HA	1:e:400:LEU:HD22	1.42	0.45
1:e:423:GLU:HA	1:e:424:PRO:HD3	1.81	0.45
1:f:331:GLN:HE22	1:g:335:GLN:CA	2.16	0.45
1:f:489:GLN:OE1	1:f:490:GLN:N	2.49	0.45
1:g:40:PRO:HG2	1:g:40:PRO:O	2.16	0.45
1:g:277:ARG:HG3	1:g:278:SER:N	2.31	0.45
1:g:320:VAL:HG11	1:h:297:ILE:HG22	1.44	0.45
1:g:411:THR:O	1:g:411:THR:HG23	2.16	0.45
1:g:435:ARG:C	1:g:435:ARG:HD2	2.41	0.45
1:g:441:LYS:HB3	1:g:474:ILE:HG22	1.98	0.45
1:g:480:GLY:O	1:h:465:MET:HG3	2.14	0.45
1:h:86:LEU:HD23	1:h:86:LEU:HA	1.54	0.45
1:h:227:LEU:HD21	1:h:243:THR:CG2	2.44	0.45
1:h:409:GLN:HG2	1:h:409:GLN:O	2.17	0.45
1:i:227:LEU:HD21	1:i:243:THR:CG2	2.44	0.45
1:i:353:SER:C	1:i:355:ALA:N	2.74	0.45
1:j:257:VAL:HG21	1:j:267:SER:HA	1.98	0.45
1:j:325:GLU:HA	1:k:299:LEU:HD11	1.96	0.45
1:k:65:GLY:HA3	1:k:356:PHE:HD2	1.82	0.45
1:k:353:SER:C	1:k:355:ALA:N	2.74	0.45
1:k:441:LYS:HB3	1:k:474:ILE:HG22	1.98	0.45
1:l:441:LYS:HB3	1:l:474:ILE:HG22	1.98	0.45
1:a:55:GLN:C	1:a:56:THR:HG23	2.40	0.45
1:a:147:LEU:HA	1:a:148:PRO:HD3	1.69	0.45
1:a:300:VAL:HB	1:a:327:ILE:HG21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:398:LEU:HG	1:a:402:ARG:HH22	1.72	0.45
1:a:400:LEU:HD22	1:a:400:LEU:HA	1.42	0.45
1:b:56:THR:HB	1:b:57:PRO:HD2	1.98	0.45
1:b:148:PRO:HG3	1:b:156:ASN:CG	2.41	0.45
1:b:286:ILE:HD11	1:c:281:ASN:OD1	2.16	0.45
1:b:391:ILE:HD13	1:b:391:ILE:HA	1.64	0.45
1:c:144:LEU:HD23	1:c:144:LEU:O	2.17	0.45
1:c:170:ARG:CZ	1:c:177:LEU:HD11	2.45	0.45
1:c:291:MET:HE2	1:c:291:MET:HB2	1.63	0.45
1:c:414:ILE:HG22	1:c:414:ILE:O	2.17	0.45
1:d:16:VAL:HG13	1:d:18:GLU:N	2.31	0.45
1:d:159:LYS:HB2	1:e:173:PHE:HD1	1.79	0.45
1:d:277:ARG:NH1	1:d:348:ILE:CD1	2.74	0.45
1:e:146:TYR:HE1	1:e:251:TYR:CE2	2.32	0.45
1:e:293:SER:HB2	1:f:284:GLU:CD	2.39	0.45
1:e:435:ARG:C	1:e:435:ARG:HD2	2.41	0.45
1:e:458:ASP:HA	1:e:459:PRO:HD3	1.85	0.45
1:f:144:LEU:HD23	1:f:144:LEU:O	2.17	0.45
1:f:225:GLU:HB3	1:f:243:THR:HB	1.94	0.45
1:f:276:LEU:HD12	1:f:276:LEU:HA	1.58	0.45
1:g:144:LEU:N	1:g:144:LEU:CD2	2.73	0.45
1:g:382:GLU:OE2	1:g:389:TYR:CZ	2.67	0.45
1:g:489:GLN:OE1	1:g:490:GLN:N	2.49	0.45
1:h:323:ARG:HD3	1:h:323:ARG:HA	1.62	0.45
1:i:297:ILE:HB	1:i:330:LEU:HD21	1.96	0.45
1:i:409:GLN:O	1:i:409:GLN:HG2	2.16	0.45
1:j:277:ARG:HG3	1:j:278:SER:N	2.31	0.45
1:j:441:LYS:HB3	1:j:474:ILE:HG22	1.98	0.45
1:k:277:ARG:CZ	1:k:351:ARG:HH22	2.21	0.45
1:k:286:ILE:HD11	1:l:281:ASN:OD1	2.17	0.45
1:k:409:GLN:HG2	1:k:409:GLN:O	2.17	0.45
1:l:140:ALA:CB	1:l:267:SER:H	2.17	0.45
1:l:147:LEU:HB3	1:l:407:GLN:CD	2.41	0.45
1:l:277:ARG:NH1	1:l:348:ILE:CD1	2.73	0.45
1:a:455:MET:CE	1:l:449:TRP:CB	2.69	0.45
1:a:466:ILE:HD13	1:a:466:ILE:HA	1.59	0.45
1:b:21:LYS:O	1:b:21:LYS:HG2	2.12	0.45
1:b:27:TYR:CZ	1:b:263:SER:OG	2.52	0.45
1:b:170:ARG:CZ	1:b:177:LEU:HD11	2.45	0.45
1:b:258:ARG:NH1	1:b:258:ARG:CG	2.72	0.45
1:b:286:ILE:HA	1:b:286:ILE:HD13	1.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:352:LEU:HD22	1:b:352:LEU:HA	1.47	0.45
1:b:420:GLU:HA	1:b:421:ALA:HA	1.36	0.45
1:b:439:LEU:HD23	1:c:473:ALA:HB3	1.96	0.45
1:c:146:TYR:HE1	1:c:251:TYR:CE2	2.32	0.45
1:c:277:ARG:CZ	1:c:351:ARG:HH22	2.21	0.45
1:c:354:PHE:O	1:c:357:MET:HE3	2.13	0.45
1:c:362:VAL:O	1:c:362:VAL:HG12	2.15	0.45
1:c:489:GLN:O	1:c:491:LYS:N	2.50	0.45
1:d:249:CYS:SG	1:d:407:GLN:HG3	2.51	0.45
1:d:277:ARG:HG3	1:d:278:SER:N	2.31	0.45
1:f:85:ARG:CA	1:f:114:GLU:OE1	2.65	0.45
1:f:259:LEU:C	1:f:259:LEU:CD1	2.85	0.45
1:g:27:TYR:HE2	1:g:263:SER:HB3	1.78	0.45
1:g:385:LEU:C	1:g:388:VAL:CG2	2.80	0.45
1:g:392:LEU:HD12	1:g:392:LEU:C	2.39	0.45
1:h:254:ILE:HD13	1:h:396:LEU:CD2	2.29	0.45
1:h:446:VAL:HG21	1:i:452:LEU:HD23	1.95	0.45
1:i:126:TYR:C	1:i:129:THR:CG2	2.89	0.45
1:i:277:ARG:HG3	1:i:278:SER:N	2.31	0.45
1:i:296:VAL:HG11	1:j:332:LEU:CD1	2.47	0.45
1:i:331:GLN:HE22	1:j:335:GLN:CA	2.15	0.45
1:i:370:THR:CG2	1:i:371:ALA:N	2.68	0.45
1:i:489:GLN:O	1:i:491:LYS:N	2.50	0.45
1:j:20:LEU:HB3	1:j:167:VAL:CB	2.35	0.45
1:j:126:TYR:C	1:j:129:THR:CG2	2.89	0.45
1:j:368:ARG:O	1:k:373:GLU:CD	2.60	0.45
1:j:435:ARG:C	1:j:435:ARG:HD2	2.41	0.45
1:k:226:TYR:HB2	1:k:244:TYR:CB	2.32	0.45
1:k:296:VAL:HG11	1:l:332:LEU:CD1	2.46	0.45
1:l:257:VAL:HG21	1:l:267:SER:HA	1.98	0.45
1:l:409:GLN:O	1:l:409:GLN:HG2	2.17	0.45
1:a:249:CYS:SG	1:a:407:GLN:HG3	2.51	0.45
1:a:316:THR:HG22	1:b:294:SER:O	2.16	0.45
1:a:391:ILE:HD13	1:a:391:ILE:HA	1.64	0.45
1:b:320:VAL:CG1	1:c:297:ILE:HG23	2.31	0.45
1:b:382:GLU:OE2	1:b:389:TYR:CZ	2.67	0.45
1:b:489:GLN:O	1:b:491:LYS:N	2.50	0.45
1:c:348:ILE:HA	1:c:348:ILE:HD12	1.54	0.45
1:c:353:SER:C	1:c:355:ALA:N	2.74	0.45
1:c:489:GLN:OE1	1:c:490:GLN:N	2.49	0.45
1:d:45:LYS:HE3	1:d:45:LYS:HB3	1.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:54:TYR:CD2	1:d:55:GLN:O	2.70	0.45
1:d:362:VAL:O	1:d:362:VAL:HG12	2.17	0.45
1:d:419:LYS:CE	1:d:419:LYS:H	2.30	0.45
1:e:144:LEU:HD23	1:e:144:LEU:O	2.17	0.45
1:e:409:GLN:HG2	1:e:409:GLN:O	2.16	0.45
1:f:338:PHE:HB3	1:g:340:VAL:HG23	1.99	0.45
1:f:441:LYS:HB3	1:f:474:ILE:HG22	1.98	0.45
1:g:17:TYR:CG	1:g:17:TYR:O	2.69	0.45
1:g:277:ARG:NH1	1:g:348:ILE:CD1	2.75	0.45
1:g:277:ARG:CZ	1:g:351:ARG:HH22	2.21	0.45
1:h:98:SER:OG	1:h:102:GLY:N	2.50	0.45
1:h:489:GLN:O	1:h:491:LYS:N	2.50	0.45
1:i:136:GLN:O	1:i:139:VAL:N	2.39	0.45
1:i:383:ASP:C	1:i:385:LEU:N	2.75	0.45
1:j:489:GLN:O	1:j:491:LYS:N	2.50	0.45
1:j:489:GLN:OE1	1:j:490:GLN:N	2.49	0.45
1:k:17:TYR:CD1	1:k:17:TYR:O	2.70	0.45
1:k:126:TYR:C	1:k:129:THR:CG2	2.90	0.45
1:k:146:TYR:HE1	1:k:251:TYR:CE2	2.32	0.45
1:k:147:LEU:HB3	1:k:407:GLN:CD	2.41	0.45
1:k:257:VAL:HG21	1:k:267:SER:HA	1.98	0.45
1:k:342:LYS:C	1:k:342:LYS:CD	2.85	0.45
1:k:391:ILE:HA	1:k:391:ILE:HD13	1.64	0.45
1:l:179:MET:HB3	1:l:217:ILE:HD12	1.95	0.45
1:l:489:GLN:OE1	1:l:490:GLN:N	2.49	0.45
1:a:17:TYR:CD1	1:a:17:TYR:O	2.69	0.45
1:a:65:GLY:HA3	1:a:356:PHE:HD2	1.82	0.45
1:a:316:THR:HG22	1:b:294:SER:C	2.41	0.45
1:a:332:LEU:CD1	1:l:296:VAL:HG11	2.46	0.45
1:b:20:LEU:CD1	1:b:167:VAL:CG1	2.95	0.45
1:b:297:ILE:HB	1:b:330:LEU:HD21	1.97	0.45
1:c:391:ILE:HD13	1:c:391:ILE:HA	1.63	0.45
1:d:353:SER:C	1:d:355:ALA:N	2.74	0.45
1:e:252:ILE:HG12	1:e:399:PRO:HB3	1.98	0.45
1:e:441:LYS:HB3	1:e:474:ILE:HG22	1.98	0.45
1:e:489:GLN:O	1:e:491:LYS:N	2.50	0.45
1:f:147:LEU:N	1:f:147:LEU:CD2	2.73	0.45
1:f:320:VAL:CG1	1:g:297:ILE:HG23	2.34	0.45
1:g:40:PRO:HA	1:g:41:SER:HA	1.65	0.45
1:g:42:LEU:HA	1:g:42:LEU:HD13	1.42	0.45
1:g:147:LEU:HB3	1:g:407:GLN:CD	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:353:SER:C	1:h:355:ALA:N	2.74	0.45
1:h:441:LYS:HB3	1:h:474:ILE:HG22	1.98	0.45
1:h:450:ALA:CA	1:i:455:MET:HE3	2.47	0.45
1:i:244:TYR:OH	1:i:250:PRO:HD3	2.15	0.45
1:i:252:ILE:N	1:i:252:ILE:CD1	2.72	0.45
1:i:276:LEU:HA	1:i:276:LEU:HD12	1.58	0.45
1:i:342:LYS:C	1:i:342:LYS:CD	2.85	0.45
1:j:226:TYR:HB2	1:j:244:TYR:CB	2.32	0.45
1:j:277:ARG:CZ	1:j:351:ARG:HH22	2.21	0.45
1:k:40:PRO:HA	1:k:41:SER:HA	1.65	0.45
1:k:489:GLN:O	1:k:491:LYS:N	2.50	0.45
1:a:179:MET:HB3	1:a:217:ILE:HD12	1.95	0.45
1:a:225:GLU:HB3	1:a:243:THR:HB	1.94	0.45
1:a:435:ARG:C	1:a:435:ARG:HD2	2.41	0.45
1:a:441:LYS:HB3	1:a:474:ILE:HG22	1.98	0.45
1:a:489:GLN:O	1:a:491:LYS:N	2.50	0.45
1:b:147:LEU:HB3	1:b:407:GLN:CD	2.41	0.45
1:b:248:ALA:HB1	1:b:406:LYS:CD	2.31	0.45
1:c:59:GLN:HE21	1:c:278:SER:CB	2.15	0.45
1:c:83:TRP:CE2	1:c:84:MET:HB2	2.52	0.45
1:d:17:TYR:CG	1:d:17:TYR:O	2.69	0.45
1:d:126:TYR:C	1:d:129:THR:CG2	2.89	0.45
1:d:279:LEU:HA	1:d:279:LEU:HD22	1.77	0.45
1:d:406:LYS:HE2	1:d:406:LYS:HB2	1.58	0.45
1:f:17:TYR:CD1	1:f:17:TYR:O	2.70	0.45
1:f:54:TYR:CD1	1:f:55:GLN:OE1	2.70	0.45
1:f:362:VAL:O	1:f:362:VAL:HG12	2.15	0.45
1:f:411:THR:O	1:f:411:THR:HG23	2.16	0.45
1:f:442:LEU:HD22	1:f:442:LEU:HA	1.43	0.45
1:f:463:LEU:HA	1:f:463:LEU:HD13	1.59	0.45
1:g:362:VAL:O	1:g:362:VAL:HG12	2.17	0.45
1:h:43:PHE:HZ	1:h:163:LEU:HB2	1.82	0.45
1:h:144:LEU:HD23	1:h:144:LEU:O	2.17	0.45
1:h:252:ILE:HG12	1:h:399:PRO:HB3	1.98	0.45
1:i:251:TYR:O	1:i:251:TYR:CD1	2.70	0.45
1:i:279:LEU:HA	1:i:279:LEU:HD22	1.77	0.45
1:i:286:ILE:HD11	1:j:281:ASN:OD1	2.17	0.45
1:i:368:ARG:O	1:j:373:GLU:CD	2.59	0.45
1:k:45:LYS:HB3	1:k:45:LYS:HE3	1.47	0.45
1:k:463:LEU:HD13	1:k:463:LEU:HA	1.59	0.45
1:l:17:TYR:CG	1:l:180:VAL:CG1	2.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:77:LEU:C	1:l:77:LEU:CD2	2.85	0.45
1:l:145:LEU:C	1:l:145:LEU:CD1	2.84	0.45
1:l:361:ALA:O	1:l:366:GLY:O	2.35	0.45
1:l:391:ILE:HD13	1:l:391:ILE:HA	1.63	0.45
1:l:489:GLN:O	1:l:491:LYS:N	2.50	0.45
1:a:369:VAL:CA	1:a:370:THR:CB	2.84	0.45
1:a:473:ALA:HB3	1:l:439:LEU:HD23	1.97	0.45
1:b:20:LEU:HD13	1:b:20:LEU:HA	1.49	0.45
1:c:85:ARG:CA	1:c:114:GLU:OE1	2.65	0.45
1:c:98:SER:CB	1:c:103:LEU:HD23	2.45	0.45
1:d:83:TRP:CE2	1:d:84:MET:HB2	2.52	0.45
1:d:86:LEU:HD23	1:d:86:LEU:HA	1.54	0.45
1:d:136:GLN:O	1:d:139:VAL:N	2.39	0.45
1:d:259:LEU:C	1:d:259:LEU:CD1	2.85	0.45
1:d:305:ILE:HD12	1:d:323:ARG:NE	2.26	0.45
1:d:383:ASP:C	1:d:385:LEU:N	2.75	0.45
1:e:54:TYR:CD1	1:e:55:GLN:OE1	2.70	0.45
1:e:259:LEU:C	1:e:259:LEU:CD1	2.85	0.45
1:e:335:GLN:N	1:e:335:GLN:CD	2.71	0.45
1:f:43:PHE:HZ	1:f:163:LEU:HB2	1.82	0.45
1:f:45:LYS:HE3	1:f:45:LYS:HB3	1.47	0.45
1:f:248:ALA:HB1	1:f:406:LYS:CB	2.33	0.45
1:f:296:VAL:HG11	1:g:332:LEU:CD1	2.46	0.45
1:g:85:ARG:CA	1:g:114:GLU:OE1	2.65	0.45
1:g:148:PRO:HG3	1:g:156:ASN:CG	2.42	0.45
1:g:227:LEU:HD21	1:g:243:THR:CG2	2.44	0.45
1:h:65:GLY:HA3	1:h:356:PHE:HD2	1.82	0.45
1:h:83:TRP:CE2	1:h:84:MET:HB2	2.52	0.45
1:h:126:TYR:C	1:h:129:THR:CG2	2.89	0.45
1:h:277:ARG:HG3	1:h:278:SER:N	2.32	0.45
1:h:414:ILE:HG22	1:h:414:ILE:O	2.17	0.45
1:i:16:VAL:HG13	1:i:18:GLU:N	2.31	0.45
1:i:68:ASN:HD21	1:i:358:LEU:HD22	1.75	0.45
1:i:368:ARG:O	1:i:370:THR:CA	2.64	0.45
1:i:419:LYS:CE	1:i:419:LYS:H	2.30	0.45
1:i:420:GLU:HA	1:i:421:ALA:HA	1.36	0.45
1:j:227:LEU:HD21	1:j:243:THR:CG2	2.44	0.45
1:j:286:ILE:HD11	1:k:281:ASN:OD1	2.17	0.45
1:j:342:LYS:C	1:j:342:LYS:CD	2.85	0.45
1:k:414:ILE:HG22	1:k:414:ILE:O	2.17	0.45
1:k:486:GLU:H	1:k:486:GLU:HG2	1.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:228:ARG:NH2	1:l:230:GLU:OE2	2.50	0.45
1:l:398:LEU:HA	1:l:398:LEU:HD13	1.48	0.45
1:a:54:TYR:CD2	1:a:55:GLN:O	2.70	0.44
1:a:83:TRP:CE2	1:a:84:MET:HB2	2.52	0.44
1:a:146:TYR:HE1	1:a:251:TYR:CE2	2.32	0.44
1:a:227:LEU:HD21	1:a:243:THR:CG2	2.44	0.44
1:a:480:GLY:O	1:b:465:MET:HG3	2.17	0.44
1:b:254:ILE:HD13	1:b:396:LEU:CD2	2.29	0.44
1:b:394:GLN:N	1:b:394:GLN:CD	2.73	0.44
1:b:402:ARG:HB2	1:b:402:ARG:CZ	2.47	0.44
1:b:414:ILE:HG22	1:b:414:ILE:O	2.17	0.44
1:c:54:TYR:CE2	1:c:55:GLN:O	2.70	0.44
1:c:98:SER:OG	1:c:102:GLY:N	2.50	0.44
1:c:300:VAL:HB	1:c:327:ILE:HG21	1.82	0.44
1:c:325:GLU:HA	1:d:299:LEU:HD11	1.95	0.44
1:c:466:ILE:HD13	1:c:466:ILE:HA	1.59	0.44
1:c:482:LEU:HD23	1:c:482:LEU:HA	1.52	0.44
1:d:126:TYR:CA	1:d:129:THR:CG2	2.95	0.44
1:d:244:TYR:OH	1:d:250:PRO:HD3	2.15	0.44
1:d:458:ASP:HA	1:d:459:PRO:HD3	1.85	0.44
1:e:20:LEU:CD1	1:e:167:VAL:CG1	2.95	0.44
1:e:414:ILE:HG22	1:e:414:ILE:O	2.17	0.44
1:f:83:TRP:CE2	1:f:84:MET:HB2	2.52	0.44
1:f:385:LEU:C	1:f:388:VAL:CG2	2.80	0.44
1:f:394:GLN:N	1:f:394:GLN:CD	2.73	0.44
1:f:489:GLN:O	1:f:491:LYS:N	2.50	0.44
1:g:66:LEU:CD2	1:g:66:LEU:C	2.84	0.44
1:g:126:TYR:C	1:g:129:THR:CG2	2.89	0.44
1:g:142:ASN:ND2	1:g:142:ASN:C	2.72	0.44
1:h:228:ARG:NH2	1:h:230:GLU:OE2	2.50	0.44
1:i:65:GLY:HA3	1:i:356:PHE:HD2	1.82	0.44
1:i:85:ARG:CA	1:i:114:GLU:OE1	2.65	0.44
1:i:439:LEU:CD2	1:j:474:ILE:CD1	2.94	0.44
1:j:43:PHE:HA	1:j:44:PRO:HD3	1.80	0.44
1:j:85:ARG:CA	1:j:114:GLU:OE1	2.65	0.44
1:j:409:GLN:O	1:j:409:GLN:HG2	2.16	0.44
1:k:450:ALA:N	1:l:455:MET:HE3	2.27	0.44
1:l:54:TYR:CE2	1:l:55:GLN:O	2.70	0.44
1:a:20:LEU:HB3	1:a:167:VAL:CB	2.36	0.44
1:a:228:ARG:NH2	1:a:230:GLU:OE2	2.50	0.44
1:b:110:LEU:CD1	1:b:110:LEU:C	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:353:SER:C	1:b:355:ALA:N	2.74	0.44
1:c:54:TYR:CD1	1:c:55:GLN:OE1	2.70	0.44
1:c:226:TYR:HB2	1:c:244:TYR:CB	2.32	0.44
1:c:251:TYR:O	1:c:251:TYR:CD1	2.70	0.44
1:c:382:GLU:CD	1:c:382:GLU:C	2.86	0.44
1:d:20:LEU:HD13	1:d:20:LEU:HA	1.50	0.44
1:d:228:ARG:NH2	1:d:230:GLU:OE2	2.50	0.44
1:d:394:GLN:N	1:d:394:GLN:CD	2.73	0.44
1:f:17:TYR:CG	1:f:180:VAL:CG1	2.98	0.44
1:f:27:TYR:CZ	1:f:263:SER:OG	2.52	0.44
1:f:370:THR:O	1:f:371:ALA:C	2.57	0.44
1:g:286:ILE:HD11	1:h:281:ASN:OD1	2.17	0.44
1:g:450:ALA:CA	1:h:455:MET:HE3	2.47	0.44
1:h:385:LEU:C	1:h:388:VAL:CG2	2.80	0.44
1:i:32:GLN:NE2	1:i:32:GLN:CA	2.72	0.44
1:i:54:TYR:CE2	1:i:55:GLN:O	2.70	0.44
1:i:144:LEU:HD23	1:i:144:LEU:O	2.17	0.44
1:i:402:ARG:CZ	1:i:402:ARG:HB2	2.48	0.44
1:j:54:TYR:CE2	1:j:55:GLN:O	2.71	0.44
1:j:83:TRP:CE2	1:j:84:MET:HB2	2.52	0.44
1:j:228:ARG:NH2	1:j:230:GLU:OE2	2.51	0.44
1:j:382:GLU:C	1:j:382:GLU:CD	2.86	0.44
1:j:419:LYS:CE	1:j:419:LYS:H	2.29	0.44
1:j:441:LYS:HB3	1:j:474:ILE:CG2	2.47	0.44
1:j:477:ASP:OD1	1:j:477:ASP:N	2.51	0.44
1:j:483:LEU:HB2	1:k:460:ASP:C	2.42	0.44
1:k:16:VAL:HG13	1:k:18:GLU:N	2.31	0.44
1:l:72:LYS:HA	1:l:72:LYS:NZ	2.28	0.44
1:l:83:TRP:CE2	1:l:84:MET:HB2	2.52	0.44
1:l:411:THR:O	1:l:411:THR:HG23	2.16	0.44
1:l:441:LYS:HB3	1:l:474:ILE:CG2	2.48	0.44
1:a:382:GLU:C	1:a:382:GLU:CD	2.86	0.44
1:a:489:GLN:OE1	1:a:490:GLN:N	2.49	0.44
1:b:27:TYR:HH	1:b:263:SER:CB	2.15	0.44
1:b:65:GLY:HA3	1:b:356:PHE:HD2	1.82	0.44
1:b:489:GLN:OE1	1:b:490:GLN:N	2.49	0.44
1:c:40:PRO:HA	1:c:41:SER:HA	1.65	0.44
1:c:397:GLN:HG2	1:c:426:ILE:HG21	1.85	0.44
1:c:474:ILE:N	1:c:474:ILE:CD1	2.75	0.44
1:d:32:GLN:NE2	1:d:32:GLN:CA	2.72	0.44
1:d:147:LEU:HA	1:d:148:PRO:HD3	1.68	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:251:TYR:O	1:d:251:TYR:CD1	2.70	0.44
1:d:370:THR:O	1:d:371:ALA:C	2.57	0.44
1:e:17:TYR:CD1	1:e:17:TYR:O	2.69	0.44
1:e:54:TYR:CD2	1:e:55:GLN:O	2.70	0.44
1:e:279:LEU:HA	1:e:279:LEU:HD22	1.77	0.44
1:e:482:LEU:HD23	1:e:482:LEU:HA	1.52	0.44
1:f:54:TYR:CE2	1:f:55:GLN:O	2.70	0.44
1:f:228:ARG:NH2	1:f:230:GLU:OE2	2.50	0.44
1:f:286:ILE:HD11	1:g:281:ASN:OD1	2.18	0.44
1:f:441:LYS:HB3	1:f:474:ILE:CG2	2.48	0.44
1:f:477:ASP:OD1	1:f:477:ASP:N	2.51	0.44
1:g:146:TYR:HE1	1:g:251:TYR:CE2	2.32	0.44
1:g:394:GLN:CD	1:g:394:GLN:N	2.73	0.44
1:g:441:LYS:HB3	1:g:474:ILE:CG2	2.47	0.44
1:h:136:GLN:HE21	1:h:136:GLN:HB2	1.41	0.44
1:h:259:LEU:C	1:h:259:LEU:CD1	2.85	0.44
1:h:423:GLU:HA	1:h:424:PRO:HD3	1.81	0.44
1:i:83:TRP:CE2	1:i:84:MET:HB2	2.52	0.44
1:i:145:LEU:C	1:i:145:LEU:CD1	2.84	0.44
1:i:325:GLU:HA	1:j:299:LEU:HD11	1.96	0.44
1:i:439:LEU:HD23	1:j:473:ALA:HB3	1.99	0.44
1:j:54:TYR:CD1	1:j:55:GLN:OE1	2.70	0.44
1:k:83:TRP:CE2	1:k:84:MET:HB2	2.52	0.44
1:k:99:ASP:HA	1:k:101:ASP:H	1.83	0.44
1:l:126:TYR:CA	1:l:129:THR:CG2	2.95	0.44
1:l:144:LEU:HD23	1:l:144:LEU:O	2.17	0.44
1:a:135:LYS:HB3	1:a:135:LYS:HZ3	1.82	0.44
1:a:148:PRO:HG3	1:a:156:ASN:CG	2.41	0.44
1:a:251:TYR:O	1:a:251:TYR:CD1	2.70	0.44
1:a:441:LYS:HB3	1:a:474:ILE:CG2	2.48	0.44
1:b:17:TYR:CD1	1:b:17:TYR:O	2.70	0.44
1:b:146:TYR:HE1	1:b:251:TYR:CE2	2.32	0.44
1:b:251:TYR:O	1:b:251:TYR:CD1	2.70	0.44
1:b:419:LYS:CE	1:b:419:LYS:H	2.29	0.44
1:c:227:LEU:HD21	1:c:243:THR:CG2	2.44	0.44
1:c:408:LEU:O	1:c:414:ILE:CD1	2.66	0.44
1:c:441:LYS:HB3	1:c:474:ILE:CG2	2.48	0.44
1:c:446:VAL:HG23	1:d:452:LEU:HD21	1.74	0.44
1:d:113:VAL:O	1:d:117:ILE:HD12	2.18	0.44
1:d:162:ARG:NH1	1:e:259:LEU:HD22	2.23	0.44
1:d:441:LYS:HB3	1:d:474:ILE:CG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:441:LYS:HB3	1:d:474:ILE:HG22	1.98	0.44
1:e:59:GLN:H	1:e:279:LEU:HD21	1.17	0.44
1:e:370:THR:O	1:e:371:ALA:C	2.58	0.44
1:e:442:LEU:CD2	1:e:476:ILE:CG2	2.76	0.44
1:f:65:GLY:HA3	1:f:356:PHE:HD2	1.82	0.44
1:f:98:SER:OG	1:f:102:GLY:N	2.50	0.44
1:f:113:VAL:O	1:f:117:ILE:HD12	2.18	0.44
1:g:20:LEU:HB3	1:g:167:VAL:CB	2.36	0.44
1:g:54:TYR:CE2	1:g:55:GLN:O	2.70	0.44
1:g:83:TRP:CE2	1:g:84:MET:HB2	2.52	0.44
1:g:137:LEU:C	1:g:139:VAL:H	2.20	0.44
1:g:353:SER:C	1:g:355:ALA:N	2.74	0.44
1:g:419:LYS:CE	1:g:419:LYS:H	2.29	0.44
1:g:489:GLN:O	1:g:491:LYS:N	2.50	0.44
1:h:99:ASP:HA	1:h:101:ASP:H	1.83	0.44
1:h:289:MET:HE2	1:i:340:VAL:HB	1.97	0.44
1:h:383:ASP:C	1:h:385:LEU:N	2.75	0.44
1:i:252:ILE:HG12	1:i:399:PRO:HB3	1.99	0.44
1:i:441:LYS:HB3	1:i:474:ILE:CG2	2.48	0.44
1:i:441:LYS:HB3	1:i:474:ILE:HG22	1.98	0.44
1:k:17:TYR:CG	1:k:17:TYR:O	2.69	0.44
1:k:54:TYR:CD1	1:k:55:GLN:OE1	2.70	0.44
1:k:85:ARG:CA	1:k:114:GLU:OE1	2.65	0.44
1:k:227:LEU:HD21	1:k:243:THR:CG2	2.44	0.44
1:k:276:LEU:HD12	1:k:276:LEU:HA	1.58	0.44
1:k:368:ARG:O	1:k:370:THR:CA	2.65	0.44
1:k:442:LEU:CD2	1:k:476:ILE:CG2	2.76	0.44
1:l:251:TYR:O	1:l:251:TYR:CD1	2.70	0.44
1:a:406:LYS:HA	1:a:406:LYS:HZ2	1.75	0.44
1:a:419:LYS:CE	1:a:419:LYS:H	2.30	0.44
1:a:446:VAL:HG21	1:b:452:LEU:HD23	1.95	0.44
1:b:83:TRP:CE2	1:b:84:MET:HB2	2.52	0.44
1:b:228:ARG:NH2	1:b:230:GLU:OE2	2.50	0.44
1:b:289:MET:HE2	1:c:340:VAL:HB	1.97	0.44
1:b:353:SER:O	1:b:355:ALA:N	2.51	0.44
1:b:406:LYS:HB2	1:b:406:LYS:HE2	1.58	0.44
1:c:17:TYR:CD1	1:c:17:TYR:O	2.70	0.44
1:c:126:TYR:CA	1:c:129:THR:CG2	2.95	0.44
1:c:286:ILE:HA	1:c:286:ILE:HD13	1.56	0.44
1:c:353:SER:O	1:c:355:ALA:N	2.51	0.44
1:c:409:GLN:HG2	1:c:409:GLN:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:65:GLY:HA3	1:d:356:PHE:HD2	1.82	0.44
1:d:252:ILE:HG12	1:d:399:PRO:HB3	1.98	0.44
1:d:474:ILE:N	1:d:474:ILE:CD1	2.74	0.44
1:d:476:ILE:CG1	1:e:469:ARG:NH1	2.81	0.44
1:e:325:GLU:CA	1:f:299:LEU:CD1	2.86	0.44
1:e:353:SER:C	1:e:355:ALA:N	2.74	0.44
1:f:16:VAL:HG13	1:f:18:GLU:N	2.31	0.44
1:f:353:SER:O	1:f:355:ALA:N	2.51	0.44
1:f:408:LEU:O	1:f:414:ILE:CD1	2.66	0.44
1:g:402:ARG:CZ	1:g:402:ARG:HB2	2.48	0.44
1:g:420:GLU:HA	1:g:421:ALA:HA	1.36	0.44
1:h:54:TYR:CE2	1:h:55:GLN:O	2.70	0.44
1:h:382:GLU:CD	1:h:382:GLU:C	2.86	0.44
1:i:43:PHE:HZ	1:i:163:LEU:HB2	1.82	0.44
1:i:99:ASP:HA	1:i:101:ASP:H	1.83	0.44
1:i:325:GLU:CA	1:j:299:LEU:CD1	2.89	0.44
1:j:21:LYS:HG2	1:j:21:LYS:O	2.12	0.44
1:j:338:PHE:HB3	1:k:340:VAL:HG23	1.99	0.44
1:k:402:ARG:CZ	1:k:402:ARG:HB2	2.48	0.44
1:l:382:GLU:C	1:l:382:GLU:CD	2.86	0.44
1:l:402:ARG:HB2	1:l:402:ARG:CZ	2.47	0.44
1:a:99:ASP:HA	1:a:101:ASP:H	1.83	0.44
1:a:299:LEU:HD11	1:l:325:GLU:HA	1.95	0.44
1:a:353:SER:O	1:a:355:ALA:N	2.51	0.44
1:a:402:ARG:HB2	1:a:402:ARG:CZ	2.47	0.44
1:b:382:GLU:C	1:b:382:GLU:CD	2.86	0.44
1:b:397:GLN:HG2	1:b:426:ILE:HG21	1.85	0.44
1:b:408:LEU:O	1:b:414:ILE:CD1	2.66	0.44
1:c:228:ARG:NH2	1:c:230:GLU:OE2	2.51	0.44
1:c:296:VAL:HG11	1:d:332:LEU:CD1	2.46	0.44
1:d:338:PHE:HB3	1:e:340:VAL:HG23	1.99	0.44
1:d:382:GLU:C	1:d:382:GLU:CD	2.86	0.44
1:e:128:VAL:N	1:f:390:SER:HG	2.16	0.44
1:e:396:LEU:HD13	1:e:396:LEU:HA	1.59	0.44
1:f:353:SER:C	1:f:355:ALA:N	2.74	0.44
1:f:396:LEU:HA	1:f:396:LEU:HD13	1.60	0.44
1:g:99:ASP:HA	1:g:101:ASP:H	1.83	0.44
1:g:353:SER:O	1:g:355:ALA:N	2.51	0.44
1:g:466:ILE:HD13	1:g:466:ILE:HA	1.59	0.44
1:h:489:GLN:OE1	1:h:490:GLN:N	2.49	0.44
1:i:113:VAL:O	1:i:117:ILE:HD12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:382:GLU:C	1:i:382:GLU:CD	2.86	0.44
1:i:414:ILE:O	1:i:414:ILE:HG22	2.17	0.44
1:j:39:ILE:HG23	1:j:63:ALA:CB	2.47	0.44
1:j:99:ASP:OD1	1:j:99:ASP:N	2.35	0.44
1:j:276:LEU:HD12	1:j:276:LEU:HA	1.58	0.44
1:j:362:VAL:O	1:j:362:VAL:HG12	2.17	0.44
1:j:439:LEU:HD23	1:k:473:ALA:HB3	1.98	0.44
1:j:486:GLU:H	1:j:486:GLU:HG2	1.34	0.44
1:k:39:ILE:HG23	1:k:63:ALA:CB	2.47	0.44
1:k:450:ALA:CA	1:l:455:MET:HE3	2.47	0.44
1:l:39:ILE:HG23	1:l:63:ALA:CB	2.46	0.44
1:l:54:TYR:CD1	1:l:55:GLN:OE1	2.70	0.44
1:l:113:VAL:O	1:l:117:ILE:HD12	2.18	0.44
1:l:227:LEU:HD21	1:l:243:THR:CG2	2.44	0.44
1:l:414:ILE:O	1:l:414:ILE:HG22	2.17	0.44
1:a:284:GLU:CD	1:l:293:SER:HB2	2.41	0.44
1:a:371:ALA:O	1:a:373:GLU:N	2.50	0.44
1:b:441:LYS:HB3	1:b:474:ILE:HG22	1.98	0.44
1:b:446:VAL:HG21	1:c:452:LEU:HD23	1.96	0.44
1:c:441:LYS:HB3	1:c:474:ILE:HG22	1.98	0.44
1:d:54:TYR:CD1	1:d:55:GLN:OE1	2.70	0.44
1:d:408:LEU:O	1:d:414:ILE:CD1	2.66	0.44
1:e:368:ARG:C	1:e:370:THR:CB	2.84	0.44
1:e:382:GLU:CD	1:e:382:GLU:C	2.86	0.44
1:f:126:TYR:C	1:f:129:THR:CG2	2.89	0.44
1:f:476:ILE:CG1	1:g:469:ARG:NH1	2.80	0.44
1:g:32:GLN:NE2	1:g:32:GLN:CA	2.72	0.44
1:g:43:PHE:HZ	1:g:163:LEU:HB2	1.82	0.44
1:g:226:TYR:HB2	1:g:244:TYR:CB	2.32	0.44
1:g:414:ILE:O	1:g:414:ILE:HG22	2.17	0.44
1:h:32:GLN:NE2	1:h:32:GLN:CA	2.72	0.44
1:h:85:ARG:CA	1:h:114:GLU:OE1	2.65	0.44
1:i:27:TYR:HE2	1:i:263:SER:HB3	1.77	0.44
1:i:80:MET:CG	1:i:127:ARG:HH21	2.10	0.44
1:i:147:LEU:HB3	1:i:407:GLN:CD	2.41	0.44
1:j:414:ILE:O	1:j:414:ILE:HG22	2.17	0.44
1:j:450:ALA:N	1:k:455:MET:HE3	2.31	0.44
1:k:54:TYR:CE2	1:k:55:GLN:O	2.70	0.44
1:k:228:ARG:NH2	1:k:230:GLU:OE2	2.51	0.44
1:k:331:GLN:NE2	1:l:335:GLN:HG3	2.20	0.44
1:k:368:ARG:O	1:k:370:THR:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:382:GLU:CD	1:k:382:GLU:C	2.86	0.44
1:a:20:LEU:CD1	1:a:167:VAL:CG1	2.95	0.44
1:a:54:TYR:CE2	1:a:55:GLN:O	2.71	0.44
1:a:113:VAL:O	1:a:117:ILE:HD12	2.18	0.44
1:a:420:GLU:HA	1:a:421:ALA:HA	1.36	0.44
1:a:455:MET:CE	1:l:450:ALA:HA	2.47	0.44
1:b:54:TYR:CE2	1:b:55:GLN:O	2.71	0.44
1:b:279:LEU:HA	1:b:279:LEU:HD22	1.77	0.44
1:c:358:LEU:N	1:c:358:LEU:HD23	2.33	0.44
1:c:450:ALA:HA	1:d:455:MET:CE	2.48	0.44
1:d:17:TYR:CD1	1:d:17:TYR:O	2.70	0.44
1:d:54:TYR:CE2	1:d:55:GLN:O	2.70	0.44
1:d:128:VAL:N	1:e:390:SER:HG	2.16	0.44
1:d:353:SER:O	1:d:355:ALA:N	2.51	0.44
1:d:402:ARG:HB2	1:d:402:ARG:CZ	2.48	0.44
1:e:43:PHE:HZ	1:e:163:LEU:HB2	1.82	0.44
1:e:54:TYR:CE2	1:e:55:GLN:O	2.70	0.44
1:e:83:TRP:CE2	1:e:84:MET:HB2	2.52	0.44
1:e:251:TYR:O	1:e:251:TYR:CD1	2.70	0.44
1:e:353:SER:O	1:e:355:ALA:N	2.51	0.44
1:e:383:ASP:C	1:e:385:LEU:N	2.75	0.44
1:f:17:TYR:CG	1:f:17:TYR:O	2.69	0.44
1:f:78:PHE:CZ	1:f:130:LEU:HD12	2.37	0.44
1:f:99:ASP:HA	1:f:101:ASP:H	1.83	0.44
1:g:408:LEU:O	1:g:414:ILE:CD1	2.66	0.44
1:g:486:GLU:H	1:g:486:GLU:HG2	1.34	0.44
1:h:216:HIS:C	1:h:217:ILE:HG13	2.43	0.44
1:h:352:LEU:HD22	1:h:352:LEU:HA	1.47	0.44
1:h:408:LEU:O	1:h:414:ILE:CD1	2.66	0.44
1:i:400:LEU:HD22	1:i:400:LEU:HA	1.43	0.44
1:i:477:ASP:OD1	1:i:477:ASP:N	2.51	0.44
1:j:40:PRO:HA	1:j:41:SER:HA	1.65	0.44
1:j:65:GLY:HA3	1:j:356:PHE:HD2	1.82	0.44
1:j:83:TRP:CG	1:j:84:MET:N	2.86	0.44
1:j:251:TYR:O	1:j:251:TYR:CD1	2.70	0.44
1:j:252:ILE:N	1:j:252:ILE:CD1	2.72	0.44
1:j:323:ARG:HD3	1:j:323:ARG:HA	1.63	0.44
1:k:43:PHE:HZ	1:k:163:LEU:HB2	1.82	0.44
1:k:146:TYR:CE1	1:k:251:TYR:CD2	3.06	0.44
1:l:85:ARG:CA	1:l:114:GLU:OE1	2.65	0.44
1:l:370:THR:O	1:l:371:ALA:C	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:419:LYS:CE	1:l:419:LYS:H	2.29	0.44
1:a:16:VAL:HG13	1:a:18:GLU:N	2.31	0.44
1:a:234:GLY:HA2	1:a:235:MET:HA	1.78	0.44
1:a:286:ILE:HD11	1:b:281:ASN:OD1	2.18	0.44
1:b:55:GLN:O	1:b:56:THR:HG23	2.18	0.44
1:b:72:LYS:HA	1:b:72:LYS:NZ	2.28	0.44
1:b:113:VAL:O	1:b:117:ILE:HD12	2.18	0.44
1:b:131:PHE:CD1	1:b:131:PHE:C	2.96	0.44
1:b:368:ARG:O	1:b:370:THR:HB	2.18	0.44
1:c:446:VAL:HG21	1:d:452:LEU:HD23	1.96	0.44
1:c:477:ASP:OD1	1:c:477:ASP:N	2.51	0.44
1:d:147:LEU:HB3	1:d:407:GLN:CD	2.41	0.44
1:d:358:LEU:N	1:d:358:LEU:HD23	2.33	0.44
1:e:146:TYR:CE1	1:e:251:TYR:CD2	3.06	0.44
1:e:391:ILE:HD13	1:e:391:ILE:HA	1.64	0.44
1:e:441:LYS:HB3	1:e:474:ILE:CG2	2.48	0.44
1:f:130:LEU:C	1:f:130:LEU:HD23	2.43	0.44
1:f:358:LEU:N	1:f:358:LEU:HD23	2.33	0.44
1:g:113:VAL:O	1:g:117:ILE:HD12	2.18	0.44
1:g:228:ARG:NH2	1:g:230:GLU:OE2	2.50	0.44
1:h:353:SER:O	1:h:355:ALA:N	2.51	0.44
1:i:80:MET:CG	1:i:80:MET:O	2.66	0.44
1:i:146:TYR:HE1	1:i:251:TYR:CE2	2.32	0.44
1:i:228:ARG:NH2	1:i:230:GLU:OE2	2.50	0.44
1:i:480:GLY:O	1:j:465:MET:HG3	2.16	0.44
1:j:37:TYR:CD2	1:j:276:LEU:HD12	2.52	0.44
1:j:99:ASP:HA	1:j:101:ASP:H	1.83	0.44
1:j:353:SER:C	1:j:355:ALA:N	2.74	0.44
1:k:126:TYR:CE1	1:k:158:MET:CB	2.74	0.44
1:k:249:CYS:SG	1:k:407:GLN:HG3	2.51	0.44
1:k:286:ILE:HD13	1:k:286:ILE:HA	1.56	0.44
1:k:289:MET:HE2	1:l:340:VAL:HB	1.97	0.44
1:k:325:GLU:CA	1:l:299:LEU:CD1	2.88	0.44
1:k:423:GLU:HA	1:k:424:PRO:HD3	1.81	0.44
1:l:254:ILE:CA	1:l:395:GLU:HB3	2.47	0.44
1:a:469:ARG:HH12	1:l:476:ILE:CG1	2.31	0.43
1:b:45:LYS:HE3	1:b:45:LYS:HB3	1.47	0.43
1:b:80:MET:CG	1:b:80:MET:O	2.66	0.43
1:b:85:ARG:CA	1:b:114:GLU:OE1	2.65	0.43
1:b:126:TYR:CA	1:b:129:THR:CG2	2.95	0.43
1:c:17:TYR:CG	1:c:17:TYR:O	2.69	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:113:VAL:HG12	1:c:117:ILE:HD13	2.00	0.43
1:c:314:ALA:HB1	1:c:318:ASP:HB3	1.96	0.43
1:c:342:LYS:HD3	1:c:342:LYS:O	2.18	0.43
1:c:420:GLU:HA	1:c:421:ALA:HA	1.36	0.43
1:d:140:ALA:HB2	1:d:267:SER:N	2.18	0.43
1:d:296:VAL:HG11	1:e:332:LEU:CD1	2.47	0.43
1:e:99:ASP:HA	1:e:101:ASP:H	1.83	0.43
1:e:126:TYR:C	1:e:129:THR:CG2	2.89	0.43
1:e:405:LEU:HD22	1:e:405:LEU:HA	1.78	0.43
1:g:77:LEU:C	1:g:77:LEU:CD2	2.85	0.43
1:g:382:GLU:C	1:g:382:GLU:CD	2.86	0.43
1:h:402:ARG:CG	1:h:402:ARG:NH1	2.72	0.43
1:i:39:ILE:HG23	1:i:63:ALA:CB	2.47	0.43
1:i:98:SER:CB	1:i:103:LEU:HD23	2.44	0.43
1:i:130:LEU:HD23	1:i:130:LEU:C	2.43	0.43
1:i:140:ALA:HB2	1:i:267:SER:N	2.18	0.43
1:j:20:LEU:CD1	1:j:167:VAL:CG1	2.95	0.43
1:j:43:PHE:HZ	1:j:163:LEU:HB2	1.82	0.43
1:j:113:VAL:O	1:j:117:ILE:HD12	2.18	0.43
1:j:130:LEU:C	1:j:130:LEU:HD23	2.43	0.43
1:j:145:LEU:C	1:j:145:LEU:CD1	2.84	0.43
1:j:450:ALA:HA	1:k:455:MET:CE	2.48	0.43
1:j:480:GLY:O	1:k:465:MET:HG3	2.16	0.43
1:k:56:THR:HB	1:k:57:PRO:HD2	2.00	0.43
1:k:80:MET:CG	1:k:80:MET:O	2.66	0.43
1:k:225:GLU:HB3	1:k:243:THR:HB	1.94	0.43
1:k:244:TYR:OH	1:k:250:PRO:HD3	2.15	0.43
1:a:37:TYR:CD2	1:a:276:LEU:HD12	2.52	0.43
1:a:140:ALA:CB	1:a:267:SER:H	2.17	0.43
1:a:258:ARG:NH1	1:a:258:ARG:CG	2.72	0.43
1:a:323:ARG:HD3	1:a:323:ARG:HA	1.62	0.43
1:a:408:LEU:O	1:a:414:ILE:CD1	2.66	0.43
1:b:338:PHE:HB3	1:c:340:VAL:HG23	1.99	0.43
1:b:342:LYS:HD3	1:b:342:LYS:O	2.18	0.43
1:c:276:LEU:HD12	1:c:276:LEU:HA	1.58	0.43
1:d:83:TRP:CG	1:d:84:MET:N	2.86	0.43
1:d:131:PHE:CD1	1:d:131:PHE:C	2.97	0.43
1:d:483:LEU:HD21	1:e:462:ASN:HA	1.99	0.43
1:e:228:ARG:NH2	1:e:230:GLU:OE2	2.51	0.43
1:e:392:LEU:HD12	1:e:392:LEU:C	2.39	0.43
1:f:382:GLU:C	1:f:382:GLU:CD	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:476:ILE:HG13	1:g:469:ARG:NH1	2.31	0.43
1:g:98:SER:CB	1:g:103:LEU:HD23	2.44	0.43
1:g:286:ILE:HA	1:g:286:ILE:HD13	1.56	0.43
1:h:98:SER:CB	1:h:103:LEU:HD23	2.44	0.43
1:i:225:GLU:C	1:i:243:THR:O	2.40	0.43
1:i:353:SER:O	1:i:355:ALA:N	2.51	0.43
1:l:40:PRO:HA	1:l:41:SER:HA	1.65	0.43
1:l:126:TYR:C	1:l:129:THR:CG2	2.89	0.43
1:l:130:LEU:HD23	1:l:130:LEU:C	2.44	0.43
1:a:85:ARG:CA	1:a:114:GLU:OE1	2.65	0.43
1:a:98:SER:OG	1:a:102:GLY:N	2.50	0.43
1:a:126:TYR:C	1:a:129:THR:CG2	2.89	0.43
1:a:356:PHE:O	1:a:358:LEU:N	2.52	0.43
1:b:309:ARG:HD3	1:b:309:ARG:HA	1.39	0.43
1:b:405:LEU:HD22	1:b:405:LEU:HA	1.78	0.43
1:b:441:LYS:HB3	1:b:474:ILE:CG2	2.48	0.43
1:b:450:ALA:CA	1:c:455:MET:HE3	2.48	0.43
1:c:83:TRP:CG	1:c:84:MET:N	2.86	0.43
1:c:130:LEU:HD23	1:c:130:LEU:C	2.43	0.43
1:c:146:TYR:CE1	1:c:251:TYR:CD2	3.06	0.43
1:c:305:ILE:HD12	1:c:323:ARG:NE	2.26	0.43
1:c:458:ASP:HA	1:c:459:PRO:HD3	1.85	0.43
1:d:80:MET:CG	1:d:80:MET:O	2.66	0.43
1:d:113:VAL:HG12	1:d:117:ILE:HD13	2.01	0.43
1:d:225:GLU:HB3	1:d:243:THR:HB	1.94	0.43
1:d:420:GLU:HA	1:d:421:ALA:HA	1.36	0.43
1:d:481:ILE:CD1	1:e:466:ILE:HD13	2.18	0.43
1:e:289:MET:HE2	1:f:340:VAL:HB	1.98	0.43
1:e:408:LEU:O	1:e:414:ILE:CD1	2.66	0.43
1:f:59:GLN:CD	1:f:279:LEU:H	2.11	0.43
1:f:131:PHE:CD1	1:f:131:PHE:C	2.97	0.43
1:f:146:TYR:CE1	1:f:251:TYR:CD2	3.06	0.43
1:f:402:ARG:HB2	1:f:402:ARG:CZ	2.48	0.43
1:f:482:LEU:HD23	1:f:482:LEU:HA	1.52	0.43
1:g:130:LEU:C	1:g:130:LEU:HD23	2.43	0.43
1:g:146:TYR:CE1	1:g:251:TYR:CD2	3.06	0.43
1:g:383:ASP:C	1:g:385:LEU:N	2.74	0.43
1:h:55:GLN:O	1:h:56:THR:HG23	2.18	0.43
1:h:56:THR:HB	1:h:57:PRO:HD2	1.99	0.43
1:h:402:ARG:HB2	1:h:402:ARG:CZ	2.47	0.43
1:h:420:GLU:HA	1:h:421:ALA:HA	1.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:128:VAL:HB	1:j:391:ILE:N	2.33	0.43
1:i:342:LYS:HD3	1:i:342:LYS:O	2.18	0.43
1:i:408:LEU:O	1:i:414:ILE:CD1	2.66	0.43
1:j:331:GLN:NE2	1:k:335:GLN:HG3	2.20	0.43
1:j:402:ARG:CZ	1:j:402:ARG:HB2	2.48	0.43
1:k:145:LEU:C	1:k:145:LEU:CD1	2.84	0.43
1:k:400:LEU:HA	1:k:400:LEU:HD22	1.43	0.43
1:l:83:TRP:CG	1:l:84:MET:N	2.86	0.43
1:l:353:SER:O	1:l:355:ALA:N	2.51	0.43
1:a:77:LEU:C	1:a:77:LEU:CD2	2.85	0.43
1:a:130:LEU:C	1:a:130:LEU:HD23	2.43	0.43
1:a:146:TYR:CE1	1:a:251:TYR:CD2	3.06	0.43
1:a:398:LEU:HA	1:a:398:LEU:HD13	1.48	0.43
1:a:416:GLU:CB	1:a:419:LYS:CE	2.85	0.43
1:b:32:GLN:NE2	1:b:32:GLN:CA	2.72	0.43
1:c:419:LYS:CE	1:c:419:LYS:H	2.29	0.43
1:c:483:LEU:HD21	1:d:462:ASN:HA	2.00	0.43
1:d:20:LEU:CD1	1:d:167:VAL:CG1	2.95	0.43
1:d:146:TYR:CE1	1:d:251:TYR:CD2	3.06	0.43
1:e:463:LEU:HA	1:e:463:LEU:HD13	1.58	0.43
1:f:128:VAL:N	1:g:390:SER:OG	2.51	0.43
1:g:27:TYR:CZ	1:g:263:SER:OG	2.52	0.43
1:g:80:MET:CG	1:g:80:MET:O	2.66	0.43
1:g:316:THR:OG1	1:i:287:VAL:HG11	2.19	0.43
1:h:83:TRP:CG	1:h:84:MET:N	2.86	0.43
1:h:441:LYS:HB3	1:h:474:ILE:CG2	2.48	0.43
1:i:20:LEU:CD1	1:i:167:VAL:CG1	2.95	0.43
1:i:54:TYR:CD1	1:i:55:GLN:OE1	2.70	0.43
1:i:358:LEU:N	1:i:358:LEU:HD23	2.33	0.43
1:j:110:LEU:CD1	1:j:110:LEU:C	2.85	0.43
1:j:142:ASN:ND2	1:j:142:ASN:C	2.72	0.43
1:j:358:LEU:N	1:j:358:LEU:HD23	2.33	0.43
1:j:439:LEU:CD2	1:k:474:ILE:CD1	2.95	0.43
1:j:452:LEU:HD22	1:j:452:LEU:HA	1.80	0.43
1:j:482:LEU:HD23	1:j:482:LEU:HA	1.52	0.43
1:l:131:PHE:CD1	1:l:131:PHE:C	2.97	0.43
1:b:54:TYR:CD1	1:b:55:GLN:OE1	2.70	0.43
1:c:225:GLU:C	1:c:243:THR:O	2.40	0.43
1:d:99:ASP:HA	1:d:101:ASP:H	1.83	0.43
1:d:482:LEU:HD23	1:d:482:LEU:HA	1.52	0.43
1:e:39:ILE:CD1	1:e:42:LEU:HD21	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:113:VAL:HG12	1:e:117:ILE:HD13	2.00	0.43
1:f:383:ASP:C	1:f:385:LEU:N	2.75	0.43
1:g:126:TYR:HA	1:g:129:THR:HG21	2.01	0.43
1:g:342:LYS:HD3	1:g:342:LYS:O	2.18	0.43
1:h:40:PRO:HA	1:h:41:SER:HA	1.65	0.43
1:h:54:TYR:CD1	1:h:55:GLN:OE1	2.70	0.43
1:h:130:LEU:HD23	1:h:130:LEU:C	2.43	0.43
1:i:126:TYR:CA	1:i:129:THR:CG2	2.95	0.43
1:i:289:MET:HE2	1:j:340:VAL:HB	1.97	0.43
1:j:254:ILE:CA	1:j:395:GLU:HB3	2.47	0.43
1:j:277:ARG:NH1	1:j:348:ILE:CD1	2.75	0.43
1:k:83:TRP:CG	1:k:84:MET:N	2.86	0.43
1:k:353:SER:O	1:k:355:ALA:N	2.51	0.43
1:k:441:LYS:HB3	1:k:474:ILE:CG2	2.48	0.43
1:l:99:ASP:HA	1:l:101:ASP:H	1.83	0.43
1:l:353:SER:C	1:l:355:ALA:N	2.74	0.43
1:l:357:MET:HE1	1:l:382:GLU:HA	2.00	0.43
1:a:43:PHE:HZ	1:a:163:LEU:HB2	1.82	0.43
1:a:80:MET:CG	1:a:80:MET:O	2.66	0.43
1:a:259:LEU:HD22	1:a:260:ASP:N	2.34	0.43
1:b:165:SER:OG	1:b:166:TYR:N	2.52	0.43
1:b:259:LEU:HD22	1:b:260:ASP:N	2.34	0.43
1:b:277:ARG:NH1	1:b:348:ILE:CD1	2.74	0.43
1:c:39:ILE:HG23	1:c:63:ALA:CB	2.47	0.43
1:d:43:PHE:HZ	1:d:163:LEU:HB2	1.82	0.43
1:d:391:ILE:HD13	1:d:391:ILE:HA	1.64	0.43
1:d:439:LEU:CD2	1:e:474:ILE:CD1	2.97	0.43
1:e:277:ARG:CZ	1:e:351:ARG:HH22	2.20	0.43
1:g:54:TYR:CD1	1:g:55:GLN:OE1	2.71	0.43
1:g:65:GLY:HA3	1:g:356:PHE:HD2	1.82	0.43
1:g:452:LEU:HD22	1:g:452:LEU:HA	1.80	0.43
1:h:20:LEU:HB3	1:h:167:VAL:CB	2.35	0.43
1:h:405:LEU:HD22	1:h:405:LEU:HA	1.78	0.43
1:i:131:PHE:CE2	1:j:387:GLY:CA	3.02	0.43
1:i:216:HIS:C	1:i:217:ILE:HG13	2.43	0.43
1:i:225:GLU:HB3	1:i:243:THR:HB	1.94	0.43
1:j:17:TYR:CG	1:j:17:TYR:O	2.69	0.43
1:j:331:GLN:HE21	1:k:335:GLN:CB	2.22	0.43
1:j:352:LEU:HD22	1:j:352:LEU:HA	1.47	0.43
1:j:353:SER:O	1:j:355:ALA:N	2.51	0.43
1:k:14:LYS:HZ3	1:k:19:ARG:NE	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:98:SER:OG	1:k:102:GLY:N	2.50	0.43
1:k:113:VAL:O	1:k:117:ILE:HD12	2.18	0.43
1:k:216:HIS:C	1:k:217:ILE:HG13	2.43	0.43
1:k:342:LYS:HD3	1:k:342:LYS:O	2.18	0.43
1:k:352:LEU:HD22	1:k:352:LEU:HA	1.47	0.43
1:l:43:PHE:HZ	1:l:163:LEU:HB2	1.82	0.43
1:l:45:LYS:HB3	1:l:45:LYS:HE3	1.47	0.43
1:l:65:GLY:HA3	1:l:356:PHE:HD2	1.82	0.43
1:l:405:LEU:HD22	1:l:405:LEU:HA	1.78	0.43
1:a:27:TYR:CZ	1:a:263:SER:OG	2.52	0.43
1:a:126:TYR:CA	1:a:129:THR:CG2	2.95	0.43
1:a:390:SER:OG	1:l:128:VAL:N	2.52	0.43
1:b:128:VAL:N	1:c:390:SER:OG	2.52	0.43
1:b:316:THR:OG1	1:d:287:VAL:HG11	2.19	0.43
1:c:113:VAL:O	1:c:117:ILE:HD12	2.18	0.43
1:d:225:GLU:C	1:d:243:THR:O	2.40	0.43
1:d:254:ILE:CA	1:d:395:GLU:HB3	2.47	0.43
1:d:353:SER:OG	1:d:354:PHE:N	2.52	0.43
1:e:80:MET:CG	1:e:80:MET:O	2.66	0.43
1:e:136:GLN:HE21	1:e:136:GLN:HB2	1.41	0.43
1:e:165:SER:OG	1:e:166:TYR:N	2.52	0.43
1:e:277:ARG:NH1	1:e:348:ILE:CD1	2.74	0.43
1:e:342:LYS:HD3	1:e:342:LYS:O	2.18	0.43
1:g:216:HIS:C	1:g:217:ILE:HG13	2.43	0.43
1:h:39:ILE:HG23	1:h:63:ALA:CB	2.46	0.43
1:h:128:VAL:HB	1:i:391:ILE:N	2.34	0.43
1:h:442:LEU:HD22	1:h:442:LEU:HA	1.43	0.43
1:i:314:ALA:HB1	1:i:318:ASP:HB3	1.96	0.43
1:j:98:SER:CB	1:j:103:LEU:HD23	2.44	0.43
1:j:146:TYR:CE1	1:j:251:TYR:CD2	3.06	0.43
1:j:342:LYS:HD3	1:j:342:LYS:O	2.18	0.43
1:k:20:LEU:HA	1:k:20:LEU:HD13	1.50	0.43
1:l:342:LYS:HD3	1:l:342:LYS:O	2.18	0.43
1:a:86:LEU:HD23	1:a:86:LEU:HA	1.54	0.43
1:a:113:VAL:HG12	1:a:117:ILE:HD13	2.01	0.43
1:a:452:LEU:HD23	1:l:446:VAL:HG21	1.96	0.43
1:a:460:ASP:C	1:l:483:LEU:HB2	2.44	0.43
1:b:54:TYR:CD2	1:b:55:GLN:O	2.72	0.43
1:b:99:ASP:HA	1:b:101:ASP:H	1.83	0.43
1:b:113:VAL:HG12	1:b:117:ILE:HD13	2.01	0.43
1:c:32:GLN:NE2	1:c:32:GLN:CA	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:43:PHE:HZ	1:c:163:LEU:HB2	1.82	0.43
1:c:80:MET:CG	1:c:80:MET:O	2.66	0.43
1:c:128:VAL:HB	1:d:391:ILE:N	2.33	0.43
1:c:128:VAL:N	1:d:390:SER:OG	2.51	0.43
1:c:277:ARG:NE	1:c:348:ILE:HG12	2.33	0.43
1:c:353:SER:OG	1:c:354:PHE:N	2.52	0.43
1:d:216:HIS:C	1:d:217:ILE:HG13	2.43	0.43
1:d:234:GLY:HA2	1:d:235:MET:HA	1.79	0.43
1:e:126:TYR:HA	1:e:129:THR:HG21	2.01	0.43
1:e:402:ARG:HB2	1:e:402:ARG:CZ	2.48	0.43
1:e:406:LYS:HE2	1:e:406:LYS:HB2	1.58	0.43
1:e:466:ILE:HD13	1:e:466:ILE:HA	1.59	0.43
1:e:474:ILE:N	1:e:474:ILE:CD1	2.75	0.43
1:f:113:VAL:HG12	1:f:117:ILE:HD13	2.01	0.43
1:f:354:PHE:O	1:f:357:MET:HE3	2.13	0.43
1:g:463:LEU:HD13	1:g:463:LEU:HA	1.59	0.43
1:h:20:LEU:CD1	1:h:167:VAL:CG1	2.95	0.43
1:h:131:PHE:CD1	1:h:131:PHE:C	2.96	0.43
1:i:146:TYR:CE1	1:i:251:TYR:CD2	3.06	0.43
1:j:408:LEU:O	1:j:414:ILE:CD1	2.66	0.43
1:j:439:LEU:HD23	1:k:474:ILE:HD11	2.00	0.43
1:k:54:TYR:CD2	1:k:55:GLN:O	2.72	0.43
1:k:55:GLN:O	1:k:56:THR:HG23	2.18	0.43
1:k:126:TYR:CA	1:k:129:THR:CG2	2.95	0.43
1:k:348:ILE:HA	1:k:348:ILE:HD12	1.54	0.43
1:l:14:LYS:HZ3	1:l:19:ARG:NE	2.16	0.43
1:l:113:VAL:HG12	1:l:117:ILE:HD13	2.00	0.43
1:l:146:TYR:CE1	1:l:251:TYR:CD2	3.06	0.43
1:a:83:TRP:CG	1:a:84:MET:N	2.86	0.43
1:a:254:ILE:CA	1:a:395:GLU:HB3	2.47	0.43
1:a:259:LEU:C	1:a:259:LEU:CD1	2.85	0.43
1:a:483:LEU:HD21	1:b:462:ASN:HA	2.01	0.43
1:b:43:PHE:HZ	1:b:163:LEU:HB2	1.82	0.43
1:b:83:TRP:CG	1:b:84:MET:N	2.86	0.43
1:b:353:SER:OG	1:b:354:PHE:N	2.52	0.43
1:c:99:ASP:HA	1:c:101:ASP:H	1.83	0.43
1:c:110:LEU:O	1:c:111:SER:C	2.62	0.43
1:c:402:ARG:HB2	1:c:402:ARG:CZ	2.48	0.43
1:d:40:PRO:HA	1:d:41:SER:HA	1.65	0.43
1:d:480:GLY:O	1:e:465:MET:HG3	2.18	0.43
1:e:331:GLN:NE2	1:f:335:GLN:CG	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:86:LEU:HD23	1:f:86:LEU:HA	1.54	0.43
1:f:126:TYR:HA	1:f:129:THR:HG21	2.01	0.43
1:f:146:TYR:HE1	1:f:251:TYR:CE2	2.32	0.43
1:f:227:LEU:HD21	1:f:243:THR:CG2	2.44	0.43
1:f:251:TYR:O	1:f:251:TYR:CD1	2.70	0.43
1:g:78:PHE:CZ	1:g:130:LEU:HD12	2.37	0.43
1:g:112:MET:O	1:g:116:ILE:N	2.52	0.43
1:g:268:TYR:CD1	1:g:268:TYR:C	2.97	0.43
1:g:331:GLN:HE21	1:h:335:GLN:CA	2.20	0.43
1:h:452:LEU:HD22	1:h:452:LEU:HA	1.79	0.43
1:i:463:LEU:HA	1:i:463:LEU:HD13	1.58	0.43
1:j:305:ILE:HD12	1:j:323:ARG:NE	2.27	0.43
1:k:251:TYR:O	1:k:251:TYR:CD1	2.70	0.43
1:l:348:ILE:HD12	1:l:348:ILE:HA	1.54	0.43
1:a:357:MET:CE	1:a:381:LEU:CD2	2.97	0.43
1:a:462:ASN:HA	1:l:483:LEU:HD21	2.01	0.43
1:b:86:LEU:HD23	1:b:86:LEU:HA	1.54	0.43
1:b:128:VAL:HB	1:c:391:ILE:N	2.34	0.43
1:c:254:ILE:CA	1:c:395:GLU:HB3	2.47	0.43
1:d:59:GLN:HE21	1:d:278:SER:CB	2.14	0.43
1:d:286:ILE:HD11	1:e:281:ASN:OD1	2.18	0.43
1:d:416:GLU:HB3	1:d:419:LYS:NZ	2.34	0.43
1:e:83:TRP:CG	1:e:84:MET:N	2.86	0.43
1:e:254:ILE:CA	1:e:395:GLU:HB3	2.47	0.43
1:e:476:ILE:CG1	1:f:469:ARG:HH12	2.27	0.43
1:f:80:MET:CG	1:f:80:MET:O	2.66	0.43
1:f:483:LEU:HD21	1:g:462:ASN:HA	1.99	0.43
1:g:113:VAL:HG12	1:g:117:ILE:HD13	2.01	0.43
1:g:225:GLU:HB3	1:g:243:THR:HB	1.94	0.43
1:h:112:MET:O	1:h:116:ILE:N	2.52	0.43
1:h:477:ASP:OD1	1:h:477:ASP:N	2.51	0.43
1:i:83:TRP:CG	1:i:84:MET:N	2.86	0.43
1:i:98:SER:OG	1:i:102:GLY:N	2.50	0.43
1:i:402:ARG:CG	1:i:402:ARG:NH1	2.72	0.43
1:k:112:MET:O	1:k:116:ILE:N	2.52	0.43
1:k:259:LEU:C	1:k:259:LEU:CD1	2.85	0.43
1:a:131:PHE:CD1	1:a:131:PHE:C	2.96	0.42
1:c:216:HIS:C	1:c:217:ILE:HG13	2.43	0.42
1:d:98:SER:OG	1:d:102:GLY:N	2.50	0.42
1:d:416:GLU:CD	1:d:419:LYS:NZ	2.62	0.42
1:e:110:LEU:O	1:e:111:SER:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:113:VAL:O	1:e:117:ILE:HD12	2.18	0.42
1:e:131:PHE:CD1	1:e:131:PHE:C	2.97	0.42
1:e:216:HIS:C	1:e:217:ILE:HG13	2.43	0.42
1:e:331:GLN:NE2	1:f:335:GLN:HG3	2.19	0.42
1:f:439:LEU:CD2	1:g:474:ILE:CD1	2.97	0.42
1:h:146:TYR:CE1	1:h:251:TYR:CD2	3.06	0.42
1:h:277:ARG:NH1	1:h:348:ILE:CD1	2.75	0.42
1:h:419:LYS:CE	1:h:419:LYS:H	2.29	0.42
1:i:416:GLU:HB3	1:i:419:LYS:NZ	2.34	0.42
1:i:416:GLU:CD	1:i:419:LYS:NZ	2.62	0.42
1:i:452:LEU:HD22	1:i:452:LEU:HA	1.79	0.42
1:j:216:HIS:C	1:j:217:ILE:HG13	2.43	0.42
1:k:416:GLU:HB3	1:k:419:LYS:NZ	2.34	0.42
1:k:458:ASP:HA	1:k:459:PRO:HD3	1.85	0.42
1:l:20:LEU:HD22	1:l:20:LEU:HA	1.68	0.42
1:l:358:LEU:HD13	1:l:358:LEU:HA	1.72	0.42
1:a:14:LYS:HZ3	1:a:19:ARG:NE	2.17	0.42
1:a:45:LYS:HB3	1:a:45:LYS:HE3	1.48	0.42
1:a:128:VAL:N	1:b:390:SER:OG	2.52	0.42
1:a:358:LEU:CD1	1:a:360:SER:N	2.73	0.42
1:b:98:SER:CB	1:b:103:LEU:HD23	2.45	0.42
1:b:110:LEU:O	1:b:111:SER:C	2.62	0.42
1:b:392:LEU:HD12	1:b:392:LEU:C	2.39	0.42
1:b:416:GLU:HB3	1:b:419:LYS:NZ	2.34	0.42
1:c:16:VAL:HG13	1:c:18:GLU:N	2.31	0.42
1:c:131:PHE:CE2	1:d:387:GLY:CA	3.01	0.42
1:c:131:PHE:CD1	1:c:131:PHE:C	2.97	0.42
1:c:165:SER:OG	1:c:166:TYR:N	2.52	0.42
1:d:27:TYR:CZ	1:d:263:SER:OG	2.52	0.42
1:d:142:ASN:ND2	1:d:142:ASN:C	2.72	0.42
1:d:259:LEU:HD22	1:d:260:ASP:N	2.34	0.42
1:d:446:VAL:HG21	1:e:452:LEU:HD23	1.97	0.42
1:e:130:LEU:HD23	1:e:130:LEU:C	2.43	0.42
1:e:286:ILE:HA	1:e:286:ILE:HD13	1.56	0.42
1:e:353:SER:OG	1:e:354:PHE:N	2.52	0.42
1:f:42:LEU:HA	1:f:42:LEU:HD13	1.42	0.42
1:f:83:TRP:CG	1:f:84:MET:N	2.86	0.42
1:f:216:HIS:C	1:f:217:ILE:HG13	2.43	0.42
1:f:244:TYR:OH	1:f:250:PRO:HD3	2.15	0.42
1:f:286:ILE:HD13	1:f:286:ILE:HA	1.56	0.42
1:g:126:TYR:CA	1:g:129:THR:CG2	2.95	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:165:SER:OG	1:g:166:TYR:N	2.52	0.42
1:h:59:GLN:H	1:h:279:LEU:HD21	1.17	0.42
1:h:80:MET:CG	1:h:80:MET:O	2.66	0.42
1:h:131:PHE:CE2	1:i:387:GLY:CA	3.01	0.42
1:h:314:ALA:HB1	1:h:318:ASP:HB3	1.96	0.42
1:h:397:GLN:HG2	1:h:426:ILE:HG21	1.85	0.42
1:j:112:MET:O	1:j:116:ILE:N	2.52	0.42
1:j:131:PHE:CD1	1:j:131:PHE:C	2.96	0.42
1:j:483:LEU:HD21	1:k:462:ASN:HA	2.00	0.42
1:k:110:LEU:CD1	1:k:110:LEU:C	2.85	0.42
1:l:140:ALA:HB2	1:l:267:SER:N	2.18	0.42
1:l:408:LEU:O	1:l:414:ILE:CD1	2.66	0.42
1:l:463:LEU:HD13	1:l:463:LEU:HA	1.58	0.42
1:a:293:SER:HB2	1:b:284:GLU:CD	2.41	0.42
1:a:482:LEU:HD23	1:a:482:LEU:HA	1.52	0.42
1:b:68:ASN:HD21	1:b:358:LEU:HA	1.84	0.42
1:c:34:CYS:SG	1:c:270:GLU:CD	3.02	0.42
1:c:66:LEU:CD2	1:c:135:LYS:CD	2.91	0.42
1:e:131:PHE:CE2	1:f:387:GLY:CA	3.00	0.42
1:f:54:TYR:CD2	1:f:55:GLN:O	2.73	0.42
1:f:142:ASN:ND2	1:f:142:ASN:H	2.14	0.42
1:f:254:ILE:CA	1:f:395:GLU:HB3	2.47	0.42
1:f:268:TYR:CD1	1:f:268:TYR:C	2.97	0.42
1:f:342:LYS:HD3	1:f:342:LYS:O	2.18	0.42
1:f:423:GLU:HA	1:f:424:PRO:HD3	1.81	0.42
1:g:83:TRP:CG	1:g:84:MET:N	2.86	0.42
1:g:157:PRO:HG2	1:h:173:PHE:CD2	2.54	0.42
1:g:446:VAL:HG21	1:h:452:LEU:HD23	1.95	0.42
1:h:113:VAL:O	1:h:117:ILE:HD12	2.18	0.42
1:h:126:TYR:CA	1:h:129:THR:CG2	2.95	0.42
1:h:323:ARG:HD2	1:h:324:PRO:HD3	2.01	0.42
1:h:353:SER:OG	1:h:354:PHE:N	2.51	0.42
1:i:483:LEU:HD21	1:j:462:ASN:HA	2.00	0.42
1:j:80:MET:CG	1:j:80:MET:O	2.66	0.42
1:j:98:SER:OG	1:j:102:GLY:N	2.50	0.42
1:k:131:PHE:CE2	1:l:387:GLY:CA	3.01	0.42
1:k:259:LEU:HD22	1:k:260:ASP:N	2.34	0.42
1:k:419:LYS:CE	1:k:419:LYS:H	2.30	0.42
1:k:476:ILE:CG1	1:l:469:ARG:HH12	2.29	0.42
1:l:216:HIS:C	1:l:217:ILE:HG13	2.43	0.42
1:l:258:ARG:NH1	1:l:258:ARG:CG	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:406:LYS:HE2	1:l:406:LYS:HB2	1.58	0.42
1:a:20:LEU:HA	1:a:20:LEU:HD13	1.50	0.42
1:a:216:HIS:C	1:a:217:ILE:HG13	2.43	0.42
1:b:227:LEU:HD21	1:b:243:THR:CG2	2.44	0.42
1:b:476:ILE:CG1	1:c:469:ARG:HH12	2.30	0.42
1:e:128:VAL:N	1:f:390:SER:OG	2.52	0.42
1:e:162:ARG:CZ	1:f:259:LEU:HD21	2.43	0.42
1:e:248:ALA:HB1	1:e:406:LYS:CB	2.33	0.42
1:f:325:GLU:CA	1:g:299:LEU:CD1	2.90	0.42
1:f:327:ILE:HD12	1:f:327:ILE:C	2.45	0.42
1:g:110:LEU:O	1:g:111:SER:C	2.62	0.42
1:g:131:PHE:CD1	1:g:131:PHE:C	2.96	0.42
1:g:140:ALA:HB2	1:g:267:SER:N	2.18	0.42
1:g:293:SER:HB2	1:h:284:GLU:CD	2.39	0.42
1:h:16:VAL:HG13	1:h:18:GLU:N	2.32	0.42
1:h:126:TYR:HA	1:h:129:THR:HG21	2.01	0.42
1:h:157:PRO:HG2	1:i:173:PHE:CD2	2.55	0.42
1:h:259:LEU:HD22	1:h:260:ASP:N	2.34	0.42
1:h:348:ILE:HA	1:h:348:ILE:HD12	1.54	0.42
1:i:112:MET:O	1:i:116:ILE:N	2.52	0.42
1:j:259:LEU:HD22	1:j:260:ASP:N	2.34	0.42
1:j:348:ILE:CD1	1:j:351:ARG:NH2	2.80	0.42
1:k:17:TYR:CZ	1:k:21:LYS:HB2	2.55	0.42
1:k:113:VAL:HG12	1:k:117:ILE:HD13	2.01	0.42
1:k:130:LEU:HD23	1:k:130:LEU:C	2.43	0.42
1:k:268:TYR:CD1	1:k:268:TYR:C	2.97	0.42
1:l:54:TYR:CD2	1:l:55:GLN:O	2.73	0.42
1:l:165:SER:OG	1:l:166:TYR:N	2.52	0.42
1:a:244:TYR:OH	1:a:250:PRO:HD3	2.15	0.42
1:a:287:VAL:HG11	1:k:316:THR:OG1	2.19	0.42
1:a:331:GLN:HE22	1:b:335:GLN:CA	2.15	0.42
1:a:353:SER:OG	1:a:354:PHE:N	2.52	0.42
1:a:449:TRP:CB	1:b:455:MET:CE	2.68	0.42
1:c:259:LEU:HD22	1:c:260:ASP:N	2.34	0.42
1:c:370:THR:CG2	1:c:371:ALA:N	2.69	0.42
1:d:126:TYR:HA	1:d:129:THR:HG21	2.01	0.42
1:d:130:LEU:HD23	1:d:130:LEU:C	2.43	0.42
1:e:34:CYS:SG	1:e:270:GLU:CD	3.02	0.42
1:e:293:SER:OG	1:f:288:LYS:NZ	2.34	0.42
1:g:327:ILE:HD12	1:g:327:ILE:C	2.45	0.42
1:g:358:LEU:N	1:g:358:LEU:HD23	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:54:TYR:CD2	1:h:55:GLN:O	2.72	0.42
1:h:78:PHE:CZ	1:h:130:LEU:HD12	2.37	0.42
1:h:113:VAL:HG12	1:h:117:ILE:HD13	2.00	0.42
1:h:128:VAL:N	1:i:390:SER:HG	2.18	0.42
1:h:325:GLU:HA	1:i:299:LEU:HD11	1.94	0.42
1:h:325:GLU:CA	1:i:299:LEU:CD1	2.87	0.42
1:h:327:ILE:HD12	1:h:327:ILE:C	2.45	0.42
1:i:126:TYR:HA	1:i:129:THR:HG21	2.01	0.42
1:j:80:MET:SD	1:j:127:ARG:NE	2.93	0.42
1:k:142:ASN:HD22	1:k:142:ASN:C	2.23	0.42
1:k:335:GLN:CD	1:k:335:GLN:H	2.13	0.42
1:l:98:SER:OG	1:l:102:GLY:N	2.50	0.42
1:l:268:TYR:C	1:l:268:TYR:CD1	2.97	0.42
1:a:305:ILE:HD12	1:a:323:ARG:NE	2.26	0.42
1:a:335:GLN:N	1:a:335:GLN:CD	2.71	0.42
1:a:370:THR:OG1	1:b:373:GLU:CD	2.52	0.42
1:a:391:ILE:N	1:l:128:VAL:HB	2.34	0.42
1:a:439:LEU:HD23	1:b:473:ALA:HB3	1.99	0.42
1:b:146:TYR:CE1	1:b:251:TYR:CD2	3.06	0.42
1:b:483:LEU:HD21	1:c:462:ASN:HA	2.02	0.42
1:c:68:ASN:HD21	1:c:358:LEU:HD22	1.75	0.42
1:c:370:THR:O	1:c:371:ALA:C	2.59	0.42
1:c:483:LEU:HB2	1:d:460:ASP:C	2.43	0.42
1:d:80:MET:SD	1:d:127:ARG:NE	2.93	0.42
1:d:112:MET:O	1:d:116:ILE:N	2.52	0.42
1:d:128:VAL:N	1:e:390:SER:OG	2.52	0.42
1:d:289:MET:HE2	1:e:340:VAL:HB	1.95	0.42
1:d:398:LEU:HD13	1:d:398:LEU:HA	1.48	0.42
1:e:78:PHE:CZ	1:e:130:LEU:HD12	2.37	0.42
1:e:327:ILE:HD12	1:e:327:ILE:C	2.45	0.42
1:e:348:ILE:HD12	1:e:348:ILE:HA	1.54	0.42
1:f:128:VAL:HB	1:g:391:ILE:N	2.34	0.42
1:h:368:ARG:O	1:h:370:THR:HA	2.20	0.42
1:i:80:MET:SD	1:i:127:ARG:NE	2.93	0.42
1:j:16:VAL:HG13	1:j:18:GLU:N	2.31	0.42
1:j:38:THR:O	1:j:63:ALA:CB	2.63	0.42
1:j:55:GLN:O	1:j:56:THR:HG23	2.19	0.42
1:k:27:TYR:CZ	1:k:263:SER:OG	2.52	0.42
1:k:131:PHE:CD1	1:k:131:PHE:C	2.96	0.42
1:k:323:ARG:HD3	1:k:323:ARG:HA	1.62	0.42
1:k:348:ILE:CD1	1:k:351:ARG:NH2	2.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:392:LEU:HD12	1:k:392:LEU:C	2.39	0.42
1:k:408:LEU:O	1:k:414:ILE:CD1	2.66	0.42
1:b:140:ALA:HB2	1:b:267:SER:N	2.18	0.42
1:d:446:VAL:HG23	1:e:452:LEU:HD21	1.76	0.42
1:e:147:LEU:HA	1:e:148:PRO:HD3	1.69	0.42
1:e:157:PRO:HG2	1:f:173:PHE:CD2	2.54	0.42
1:e:268:TYR:CD1	1:e:268:TYR:C	2.97	0.42
1:g:416:GLU:HB3	1:g:419:LYS:NZ	2.34	0.42
1:h:342:LYS:HD3	1:h:342:LYS:O	2.18	0.42
1:i:99:ASP:OD1	1:i:99:ASP:N	2.35	0.42
1:i:249:CYS:SG	1:i:407:GLN:HG3	2.51	0.42
1:i:323:ARG:HD2	1:i:324:PRO:HD3	2.01	0.42
1:i:368:ARG:O	1:i:370:THR:HA	2.18	0.42
1:k:80:MET:SD	1:k:127:ARG:NE	2.93	0.42
1:k:81:GLN:C	1:k:82:THR:HG1	2.28	0.42
1:k:446:VAL:HG21	1:l:452:LEU:HD23	1.95	0.42
1:l:17:TYR:CZ	1:l:21:LYS:HB2	2.55	0.42
1:l:86:LEU:HD23	1:l:86:LEU:HA	1.54	0.42
1:l:348:ILE:CD1	1:l:351:ARG:NH2	2.79	0.42
1:l:416:GLU:HB3	1:l:419:LYS:NZ	2.34	0.42
1:a:98:SER:OG	1:a:101:ASP:N	2.53	0.42
1:a:268:TYR:C	1:a:268:TYR:CD1	2.97	0.42
1:a:342:LYS:HD3	1:a:342:LYS:O	2.18	0.42
1:a:481:ILE:CD1	1:b:466:ILE:HD13	2.16	0.42
1:b:98:SER:OG	1:b:101:ASP:N	2.53	0.42
1:b:254:ILE:CA	1:b:395:GLU:HB3	2.47	0.42
1:b:348:ILE:CD1	1:b:351:ARG:NH2	2.80	0.42
1:b:400:LEU:HD22	1:b:400:LEU:HA	1.43	0.42
1:c:86:LEU:HD23	1:c:86:LEU:HA	1.54	0.42
1:c:98:SER:OG	1:c:101:ASP:N	2.53	0.42
1:d:331:GLN:HE21	1:e:335:GLN:CA	2.23	0.42
1:e:162:ARG:CD	1:f:260:ASP:CB	2.74	0.42
1:e:416:GLU:CB	1:e:419:LYS:CE	2.85	0.42
1:f:20:LEU:C	1:f:167:VAL:HG11	2.45	0.42
1:f:98:SER:CB	1:f:103:LEU:HD23	2.44	0.42
1:f:165:SER:OG	1:f:166:TYR:N	2.52	0.42
1:f:353:SER:OG	1:f:354:PHE:N	2.51	0.42
1:g:17:TYR:CD1	1:g:167:VAL:HG23	2.49	0.42
1:g:20:LEU:CD1	1:g:167:VAL:CG1	2.95	0.42
1:g:39:ILE:HG23	1:g:63:ALA:CB	2.47	0.42
1:g:45:LYS:HB3	1:g:45:LYS:HE3	1.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:314:ALA:HB1	1:g:318:ASP:HB3	1.96	0.42
1:h:68:ASN:HD21	1:h:358:LEU:HA	1.85	0.42
1:h:142:ASN:ND2	1:h:142:ASN:C	2.72	0.42
1:h:368:ARG:O	1:h:370:THR:CA	2.64	0.42
1:i:14:LYS:HZ3	1:i:19:ARG:NE	2.18	0.42
1:i:128:VAL:N	1:j:390:SER:OG	2.51	0.42
1:i:327:ILE:HD12	1:i:327:ILE:C	2.45	0.42
1:i:450:ALA:HA	1:j:455:MET:CE	2.50	0.42
1:j:113:VAL:HG12	1:j:117:ILE:HD13	2.01	0.42
1:j:146:TYR:HH	1:j:251:TYR:HE2	1.66	0.42
1:j:157:PRO:HG2	1:k:173:PHE:CD2	2.54	0.42
1:j:268:TYR:CD1	1:j:268:TYR:C	2.97	0.42
1:j:279:LEU:HA	1:j:279:LEU:HD22	1.77	0.42
1:j:400:LEU:HD22	1:j:400:LEU:HA	1.42	0.42
1:k:258:ARG:NH1	1:k:258:ARG:CG	2.72	0.42
1:l:259:LEU:HD22	1:l:260:ASP:N	2.34	0.42
1:a:77:LEU:HD22	1:a:78:PHE:CE2	2.43	0.42
1:a:288:LYS:HZ1	1:l:292:ILE:HD12	1.83	0.42
1:b:140:ALA:CB	1:b:267:SER:H	2.17	0.42
1:b:249:CYS:HG	1:b:407:GLN:HG2	1.79	0.42
1:c:29:THR:C	1:c:31:ALA:H	2.28	0.42
1:c:80:MET:SD	1:c:127:ARG:NE	2.93	0.42
1:d:342:LYS:HD3	1:d:342:LYS:O	2.18	0.42
1:d:486:GLU:H	1:d:486:GLU:HG2	1.34	0.42
1:f:259:LEU:HD22	1:f:260:ASP:N	2.34	0.42
1:f:398:LEU:HA	1:f:398:LEU:HD13	1.48	0.42
1:g:17:TYR:CZ	1:g:21:LYS:HB2	2.55	0.42
1:g:34:CYS:SG	1:g:270:GLU:CD	3.02	0.42
1:g:59:GLN:H	1:g:279:LEU:HD21	1.16	0.42
1:g:98:SER:OG	1:g:102:GLY:N	2.50	0.42
1:g:273:LEU:HD23	1:g:273:LEU:HA	1.92	0.42
1:g:359:ASN:OD1	1:h:380:GLU:OE1	2.30	0.42
1:g:442:LEU:HD22	1:g:442:LEU:HA	1.43	0.42
1:h:29:THR:C	1:h:31:ALA:H	2.28	0.42
1:h:128:VAL:N	1:i:390:SER:OG	2.52	0.42
1:h:331:GLN:NE2	1:i:335:GLN:HG3	2.19	0.42
1:i:110:LEU:O	1:i:111:SER:C	2.62	0.42
1:i:142:ASN:ND2	1:i:142:ASN:C	2.72	0.42
1:j:128:VAL:HB	1:k:391:ILE:N	2.35	0.42
1:j:254:ILE:O	1:j:254:ILE:HG22	2.20	0.42
1:j:309:ARG:HD3	1:j:309:ARG:HA	1.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:316:THR:OG1	1:l:287:VAL:HG11	2.20	0.42
1:k:327:ILE:HD12	1:k:327:ILE:C	2.45	0.42
1:k:354:PHE:C	1:k:357:MET:HE2	2.43	0.42
1:l:20:LEU:CD1	1:l:167:VAL:CG1	2.95	0.42
1:l:42:LEU:HA	1:l:42:LEU:HD13	1.42	0.42
1:l:80:MET:SD	1:l:127:ARG:NE	2.93	0.42
1:l:98:SER:OG	1:l:101:ASP:N	2.53	0.42
1:l:416:GLU:CD	1:l:419:LYS:NZ	2.62	0.42
1:l:485:GLU:N	1:l:485:GLU:CD	2.74	0.42
1:a:40:PRO:HA	1:a:41:SER:HA	1.66	0.42
1:a:86:LEU:CD2	1:a:424:PRO:CG	2.81	0.42
1:b:486:GLU:H	1:b:486:GLU:HG2	1.34	0.42
1:c:17:TYR:CZ	1:c:21:LYS:HB2	2.55	0.42
1:c:126:TYR:HA	1:c:129:THR:HG21	2.01	0.42
1:c:405:LEU:HD22	1:c:405:LEU:HA	1.78	0.42
1:c:439:LEU:HD23	1:d:473:ALA:HB3	1.98	0.42
1:e:20:LEU:C	1:e:167:VAL:HG11	2.45	0.42
1:e:80:MET:SD	1:e:127:ARG:NE	2.93	0.42
1:e:98:SER:CB	1:e:103:LEU:HD23	2.44	0.42
1:e:128:VAL:HB	1:f:391:ILE:N	2.34	0.42
1:e:316:THR:OG1	1:g:287:VAL:HG11	2.20	0.42
1:f:98:SER:OG	1:f:101:ASP:N	2.53	0.42
1:f:157:PRO:HG2	1:g:173:PHE:CD2	2.55	0.42
1:f:309:ARG:HD3	1:f:309:ARG:HA	1.39	0.42
1:f:315:GLN:O	1:f:316:THR:C	2.63	0.42
1:f:323:ARG:HD2	1:f:324:PRO:HD3	2.01	0.42
1:f:368:ARG:O	1:f:370:THR:CA	2.67	0.42
1:g:98:SER:OG	1:g:101:ASP:N	2.53	0.42
1:h:80:MET:SD	1:h:127:ARG:NE	2.93	0.42
1:i:38:THR:HB	1:i:39:ILE:H	1.70	0.42
1:i:54:TYR:CD2	1:i:55:GLN:O	2.73	0.42
1:i:98:SER:OG	1:i:101:ASP:N	2.53	0.42
1:i:113:VAL:HG12	1:i:117:ILE:HD13	2.01	0.42
1:i:288:LYS:HE3	1:i:335:GLN:HB3	2.02	0.42
1:j:98:SER:OG	1:j:101:ASP:N	2.53	0.42
1:j:147:LEU:HD12	1:j:407:GLN:HE22	0.46	0.42
1:j:277:ARG:NE	1:j:348:ILE:HG12	2.33	0.42
1:j:327:ILE:HD12	1:j:327:ILE:C	2.45	0.42
1:k:98:SER:OG	1:k:101:ASP:N	2.53	0.42
1:l:250:PRO:HG2	1:l:251:TYR:CD2	2.55	0.42
1:l:327:ILE:HD12	1:l:327:ILE:C	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:423:GLU:HA	1:a:424:PRO:HD3	1.81	0.41
1:a:450:ALA:HA	1:b:455:MET:CE	2.50	0.41
1:b:43:PHE:HA	1:b:44:PRO:HD3	1.81	0.41
1:b:77:LEU:C	1:b:77:LEU:CD2	2.85	0.41
1:b:130:LEU:HD23	1:b:130:LEU:C	2.44	0.41
1:b:216:HIS:C	1:b:217:ILE:HG13	2.43	0.41
1:b:483:LEU:HB2	1:c:460:ASP:C	2.45	0.41
1:c:14:LYS:HZ3	1:c:19:ARG:NE	2.17	0.41
1:c:42:LEU:HD13	1:c:42:LEU:HA	1.42	0.41
1:c:54:TYR:CD2	1:c:55:GLN:O	2.73	0.41
1:c:59:GLN:H	1:c:279:LEU:HD21	1.16	0.41
1:d:17:TYR:CZ	1:d:21:LYS:HB2	2.55	0.41
1:d:98:SER:OG	1:d:101:ASP:N	2.53	0.41
1:d:327:ILE:HD12	1:d:327:ILE:C	2.45	0.41
1:e:17:TYR:CZ	1:e:21:LYS:HB2	2.55	0.41
1:e:86:LEU:CD1	1:e:422:VAL:HG12	2.50	0.41
1:e:98:SER:OG	1:e:101:ASP:N	2.53	0.41
1:f:17:TYR:CZ	1:f:21:LYS:HB2	2.55	0.41
1:f:77:LEU:C	1:f:77:LEU:CD2	2.85	0.41
1:f:126:TYR:CA	1:f:129:THR:CG2	2.95	0.41
1:f:250:PRO:HG2	1:f:251:TYR:CD2	2.55	0.41
1:f:406:LYS:HB2	1:f:406:LYS:HE2	1.58	0.41
1:g:20:LEU:C	1:g:167:VAL:HG11	2.45	0.41
1:g:254:ILE:CA	1:g:395:GLU:HB3	2.47	0.41
1:g:359:ASN:O	1:g:360:SER:OG	2.27	0.41
1:h:37:TYR:CD2	1:h:276:LEU:HD12	2.52	0.41
1:h:45:LYS:HE3	1:h:45:LYS:HB3	1.47	0.41
1:h:98:SER:OG	1:h:101:ASP:N	2.53	0.41
1:h:165:SER:OG	1:h:166:TYR:N	2.52	0.41
1:h:254:ILE:CA	1:h:395:GLU:HB3	2.47	0.41
1:h:315:GLN:O	1:h:316:THR:C	2.63	0.41
1:j:17:TYR:CZ	1:j:21:LYS:HB2	2.55	0.41
1:j:66:LEU:CD2	1:j:135:LYS:CD	2.91	0.41
1:j:314:ALA:HB1	1:j:318:ASP:HB3	1.96	0.41
1:k:37:TYR:CD2	1:k:276:LEU:HD12	2.52	0.41
1:k:128:VAL:HB	1:l:391:ILE:N	2.34	0.41
1:k:165:SER:OG	1:k:166:TYR:N	2.52	0.41
1:k:439:LEU:CD2	1:l:473:ALA:HB3	2.50	0.41
1:l:279:LEU:HA	1:l:279:LEU:HD22	1.77	0.41
1:l:420:GLU:HA	1:l:421:ALA:HA	1.36	0.41
1:a:80:MET:SD	1:a:127:ARG:NE	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:173:PHE:CD2	1:l:157:PRO:HG2	2.55	0.41
1:a:357:MET:SD	1:a:381:LEU:O	2.78	0.41
1:a:370:THR:O	1:a:373:GLU:C	2.63	0.41
1:b:59:GLN:H	1:b:279:LEU:HD21	1.17	0.41
1:b:250:PRO:HG2	1:b:251:TYR:CD2	2.55	0.41
1:b:396:LEU:HA	1:b:396:LEU:HD13	1.59	0.41
1:c:86:LEU:CD1	1:c:422:VAL:HG12	2.50	0.41
1:c:112:MET:O	1:c:116:ILE:N	2.52	0.41
1:c:254:ILE:HD13	1:c:396:LEU:CD2	2.29	0.41
1:c:450:ALA:N	1:d:455:MET:HE3	2.30	0.41
1:d:97:LEU:HD23	1:d:99:ASP:O	2.20	0.41
1:d:157:PRO:HG2	1:e:173:PHE:CD2	2.55	0.41
1:e:250:PRO:HG2	1:e:251:TYR:CD2	2.55	0.41
1:f:314:ALA:HB1	1:f:318:ASP:HB3	1.96	0.41
1:g:234:GLY:HA2	1:g:235:MET:HA	1.79	0.41
1:g:259:LEU:HD22	1:g:260:ASP:N	2.34	0.41
1:g:279:LEU:HA	1:g:279:LEU:HD22	1.77	0.41
1:g:288:LYS:HE3	1:g:335:GLN:HB3	2.02	0.41
1:g:309:ARG:HA	1:g:309:ARG:HD3	1.40	0.41
1:g:315:GLN:O	1:g:316:THR:C	2.63	0.41
1:g:353:SER:O	1:g:356:PHE:N	2.50	0.41
1:h:17:TYR:CZ	1:h:21:LYS:HB2	2.55	0.41
1:h:250:PRO:HG2	1:h:251:TYR:CD2	2.55	0.41
1:h:391:ILE:HD13	1:h:391:ILE:HA	1.64	0.41
1:i:43:PHE:HA	1:i:44:PRO:HD3	1.81	0.41
1:i:97:LEU:HD23	1:i:99:ASP:O	2.20	0.41
1:i:131:PHE:CD1	1:i:131:PHE:C	2.96	0.41
1:i:162:ARG:CD	1:j:260:ASP:CB	2.75	0.41
1:i:165:SER:OG	1:i:166:TYR:N	2.52	0.41
1:j:126:TYR:HA	1:j:129:THR:HG21	2.01	0.41
1:j:165:SER:OG	1:j:166:TYR:N	2.52	0.41
1:j:250:PRO:HG2	1:j:251:TYR:CD2	2.55	0.41
1:k:98:SER:CB	1:k:103:LEU:HD23	2.44	0.41
1:k:128:VAL:N	1:l:390:SER:OG	2.52	0.41
1:l:80:MET:CG	1:l:127:ARG:HH21	2.11	0.41
1:l:353:SER:OG	1:l:354:PHE:N	2.51	0.41
1:a:17:TYR:CZ	1:a:21:LYS:HB2	2.55	0.41
1:a:157:PRO:HG2	1:b:173:PHE:CD2	2.55	0.41
1:a:325:GLU:HA	1:b:299:LEU:HD11	1.95	0.41
1:a:327:ILE:HD12	1:a:327:ILE:C	2.45	0.41
1:a:455:MET:HE3	1:l:450:ALA:CA	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:335:GLN:N	1:b:335:GLN:CD	2.71	0.41
1:b:458:ASP:HA	1:b:459:PRO:HD3	1.85	0.41
1:d:27:TYR:HH	1:d:263:SER:CB	2.15	0.41
1:d:315:GLN:O	1:d:316:THR:C	2.63	0.41
1:d:452:LEU:HD22	1:d:452:LEU:HA	1.80	0.41
1:e:16:VAL:HG13	1:e:18:GLU:N	2.31	0.41
1:e:32:GLN:NE2	1:e:32:GLN:CA	2.72	0.41
1:e:45:LYS:HB3	1:e:45:LYS:HE3	1.47	0.41
1:e:65:GLY:HA3	1:e:356:PHE:HD2	1.82	0.41
1:e:68:ASN:HD21	1:e:358:LEU:HA	1.86	0.41
1:e:259:LEU:HD22	1:e:260:ASP:N	2.34	0.41
1:e:315:GLN:O	1:e:316:THR:C	2.63	0.41
1:e:370:THR:CG2	1:e:371:ALA:N	2.67	0.41
1:f:29:THR:C	1:f:31:ALA:H	2.28	0.41
1:f:254:ILE:O	1:f:254:ILE:HG22	2.20	0.41
1:f:288:LYS:HE3	1:f:335:GLN:HB3	2.02	0.41
1:f:305:ILE:HD12	1:f:323:ARG:NE	2.26	0.41
1:g:80:MET:SD	1:g:127:ARG:NE	2.93	0.41
1:h:20:LEU:C	1:h:167:VAL:HG11	2.45	0.41
1:h:442:LEU:CD2	1:h:476:ILE:CG2	2.76	0.41
1:i:309:ARG:HD3	1:i:309:ARG:HA	1.39	0.41
1:j:34:CYS:SG	1:j:270:GLU:OE2	2.79	0.41
1:k:466:ILE:HD13	1:k:466:ILE:HA	1.59	0.41
1:a:29:THR:C	1:a:31:ALA:H	2.28	0.41
1:a:126:TYR:HA	1:a:129:THR:HG21	2.01	0.41
1:a:397:GLN:HG2	1:a:426:ILE:HG21	1.85	0.41
1:b:80:MET:SD	1:b:127:ARG:NE	2.93	0.41
1:b:98:SER:OG	1:b:102:GLY:N	2.50	0.41
1:b:126:TYR:HA	1:b:129:THR:HG21	2.01	0.41
1:b:158:MET:HG2	1:b:159:LYS:N	2.36	0.41
1:b:277:ARG:NE	1:b:348:ILE:HG12	2.33	0.41
1:c:20:LEU:HD13	1:c:20:LEU:HA	1.50	0.41
1:c:97:LEU:HD23	1:c:99:ASP:O	2.20	0.41
1:c:158:MET:HG2	1:c:159:LYS:N	2.36	0.41
1:c:450:ALA:CA	1:d:455:MET:HE3	2.50	0.41
1:d:20:LEU:C	1:d:167:VAL:HG11	2.45	0.41
1:d:37:TYR:CD2	1:d:276:LEU:HD12	2.52	0.41
1:d:128:VAL:HB	1:e:391:ILE:N	2.35	0.41
1:d:268:TYR:CD1	1:d:268:TYR:C	2.97	0.41
1:d:320:VAL:CG1	1:e:297:ILE:HG23	2.35	0.41
1:d:409:GLN:O	1:d:409:GLN:CG	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:409:GLN:O	1:e:409:GLN:CG	2.69	0.41
1:e:439:LEU:CD2	1:f:473:ALA:HB3	2.49	0.41
1:f:39:ILE:HG23	1:f:63:ALA:CB	2.46	0.41
1:f:56:THR:HB	1:f:57:PRO:HD2	2.03	0.41
1:f:158:MET:HG2	1:f:159:LYS:N	2.35	0.41
1:f:480:GLY:O	1:g:465:MET:HG3	2.17	0.41
1:g:55:GLN:O	1:g:56:THR:HG23	2.19	0.41
1:g:409:GLN:O	1:g:409:GLN:CG	2.69	0.41
1:g:439:LEU:CD2	1:h:473:ALA:HB3	2.51	0.41
1:h:406:LYS:HB2	1:h:406:LYS:HE2	1.58	0.41
1:i:34:CYS:SG	1:i:270:GLU:OE2	2.79	0.41
1:i:36:GLN:OE1	1:i:45:LYS:CG	2.69	0.41
1:i:147:LEU:HD12	1:i:407:GLN:HE22	0.46	0.41
1:i:404:LEU:HD23	1:i:405:LEU:N	2.36	0.41
1:j:27:TYR:CZ	1:j:263:SER:OG	2.52	0.41
1:j:29:THR:C	1:j:31:ALA:H	2.28	0.41
1:j:286:ILE:HA	1:j:286:ILE:HD13	1.56	0.41
1:k:110:LEU:O	1:k:111:SER:C	2.62	0.41
1:k:126:TYR:HA	1:k:129:THR:HG21	2.01	0.41
1:k:254:ILE:CA	1:k:395:GLU:HB3	2.47	0.41
1:k:275:ASP:O	1:k:276:LEU:C	2.63	0.41
1:k:293:SER:HB2	1:l:284:GLU:CD	2.39	0.41
1:a:34:CYS:SG	1:a:270:GLU:CD	3.02	0.41
1:a:165:SER:OG	1:a:166:TYR:N	2.52	0.41
1:b:39:ILE:HG23	1:b:63:ALA:CB	2.46	0.41
1:b:157:PRO:HG2	1:c:173:PHE:CD2	2.55	0.41
1:b:266:ARG:O	1:b:266:ARG:CG	2.69	0.41
1:b:348:ILE:HD12	1:b:348:ILE:HA	1.54	0.41
1:b:372:GLU:CD	1:b:372:GLU:N	2.77	0.41
1:c:250:PRO:HG2	1:c:251:TYR:CD2	2.55	0.41
1:c:315:GLN:O	1:c:316:THR:C	2.63	0.41
1:d:158:MET:HG2	1:d:159:LYS:N	2.35	0.41
1:d:323:ARG:HD2	1:d:324:PRO:HD3	2.01	0.41
1:d:483:LEU:CB	1:e:460:ASP:O	2.65	0.41
1:e:450:ALA:HA	1:f:455:MET:HE3	2.02	0.41
1:g:128:VAL:HB	1:h:391:ILE:N	2.35	0.41
1:g:162:ARG:CD	1:h:260:ASP:CB	2.76	0.41
1:g:404:LEU:HD23	1:g:405:LEU:N	2.36	0.41
1:h:36:GLN:OE1	1:h:45:LYS:CG	2.69	0.41
1:h:162:ARG:CD	1:i:260:ASP:CB	2.75	0.41
1:h:286:ILE:HD13	1:h:286:ILE:HA	1.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:404:LEU:HD23	1:h:405:LEU:N	2.36	0.41
1:i:268:TYR:CD1	1:i:268:TYR:C	2.97	0.41
1:i:354:PHE:O	1:i:357:MET:HE3	2.14	0.41
1:j:288:LYS:HE3	1:j:335:GLN:HB3	2.02	0.41
1:j:404:LEU:HD23	1:j:405:LEU:N	2.36	0.41
1:k:42:LEU:HA	1:k:42:LEU:HD13	1.42	0.41
1:k:254:ILE:O	1:k:254:ILE:HG22	2.20	0.41
1:l:34:CYS:SG	1:l:270:GLU:CD	3.02	0.41
1:l:98:SER:CB	1:l:103:LEU:HD23	2.44	0.41
1:l:352:LEU:HA	1:l:352:LEU:HD22	1.47	0.41
1:a:97:LEU:HD23	1:a:99:ASP:O	2.20	0.41
1:a:277:ARG:NH1	1:a:348:ILE:CD1	2.73	0.41
1:a:296:VAL:HG11	1:b:332:LEU:CD1	2.48	0.41
1:b:17:TYR:CZ	1:b:21:LYS:HB2	2.55	0.41
1:b:162:ARG:CD	1:c:260:ASP:CB	2.76	0.41
1:b:268:TYR:CD1	1:b:268:TYR:C	2.97	0.41
1:c:20:LEU:CD1	1:c:167:VAL:CG1	2.95	0.41
1:c:157:PRO:HG2	1:d:173:PHE:CD2	2.55	0.41
1:c:288:LYS:HE2	1:c:335:GLN:HB3	2.03	0.41
1:c:327:ILE:HD12	1:c:327:ILE:C	2.45	0.41
1:e:29:THR:C	1:e:31:ALA:H	2.28	0.41
1:e:305:ILE:HD12	1:e:323:ARG:NE	2.26	0.41
1:g:36:GLN:OE1	1:g:45:LYS:CG	2.69	0.41
1:g:250:PRO:HG2	1:g:251:TYR:CD2	2.55	0.41
1:g:483:LEU:HB2	1:h:460:ASP:C	2.46	0.41
1:h:290:SER:C	1:i:284:GLU:CG	2.76	0.41
1:i:157:PRO:HG2	1:j:173:PHE:CD2	2.56	0.41
1:i:293:SER:OG	1:j:288:LYS:NZ	2.32	0.41
1:j:34:CYS:SG	1:j:270:GLU:CD	3.02	0.41
1:j:335:GLN:CD	1:j:335:GLN:H	2.13	0.41
1:k:99:ASP:OD1	1:k:99:ASP:N	2.35	0.41
1:l:80:MET:CG	1:l:80:MET:O	2.66	0.41
1:l:225:GLU:C	1:l:243:THR:O	2.40	0.41
1:l:273:LEU:HD23	1:l:273:LEU:HA	1.92	0.41
1:l:353:SER:O	1:l:356:PHE:N	2.50	0.41
1:a:42:LEU:HA	1:a:42:LEU:HD13	1.42	0.41
1:a:158:MET:HG2	1:a:159:LYS:N	2.36	0.41
1:a:276:LEU:HD12	1:a:276:LEU:HA	1.58	0.41
1:a:404:LEU:HD23	1:a:405:LEU:N	2.36	0.41
1:b:234:GLY:HA2	1:b:235:MET:HA	1.78	0.41
1:c:279:LEU:HA	1:c:279:LEU:HD22	1.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:419:LYS:N	1:c:419:LYS:CD	2.84	0.41
1:d:353:SER:O	1:d:356:PHE:N	2.50	0.41
1:d:404:LEU:HD23	1:d:405:LEU:N	2.36	0.41
1:e:266:ARG:O	1:e:266:ARG:CG	2.69	0.41
1:f:80:MET:SD	1:f:127:ARG:NE	2.93	0.41
1:f:404:LEU:HD23	1:f:405:LEU:N	2.36	0.41
1:f:419:LYS:N	1:f:419:LYS:CD	2.84	0.41
1:g:158:MET:HG2	1:g:159:LYS:N	2.36	0.41
1:g:331:GLN:NE2	1:h:335:GLN:HG3	2.20	0.41
1:h:38:THR:HB	1:h:39:ILE:H	1.70	0.41
1:h:158:MET:HG2	1:h:159:LYS:N	2.36	0.41
1:h:309:ARG:HD3	1:h:309:ARG:HA	1.40	0.41
1:h:419:LYS:N	1:h:419:LYS:CD	2.84	0.41
1:i:158:MET:HG2	1:i:159:LYS:N	2.36	0.41
1:i:293:SER:HB2	1:j:284:GLU:CD	2.41	0.41
1:j:83:TRP:CD1	1:j:83:TRP:N	2.89	0.41
1:j:86:LEU:CD1	1:j:422:VAL:HG12	2.50	0.41
1:k:27:TYR:HH	1:k:263:SER:CB	2.18	0.41
1:k:59:GLN:H	1:k:279:LEU:HD21	1.17	0.41
1:k:136:GLN:HE21	1:k:136:GLN:HB2	1.42	0.41
1:k:250:PRO:HG2	1:k:251:TYR:CD2	2.55	0.41
1:k:315:GLN:O	1:k:316:THR:C	2.63	0.41
1:k:483:LEU:HD21	1:l:462:ASN:HA	2.02	0.41
1:l:126:TYR:HA	1:l:129:THR:HG21	2.01	0.41
1:a:20:LEU:C	1:a:167:VAL:HG11	2.45	0.41
1:a:250:PRO:HG2	1:a:251:TYR:CD2	2.55	0.41
1:b:86:LEU:CD1	1:b:422:VAL:HG12	2.50	0.41
1:c:56:THR:HB	1:c:57:PRO:HD2	2.03	0.41
1:c:147:LEU:N	1:c:147:LEU:CD2	2.73	0.41
1:d:110:LEU:O	1:d:111:SER:C	2.62	0.41
1:d:140:ALA:HB1	1:d:265:GLY:O	2.21	0.41
1:d:266:ARG:O	1:d:266:ARG:CG	2.69	0.41
1:d:277:ARG:NH2	1:d:351:ARG:HH22	2.19	0.41
1:d:439:LEU:HD23	1:e:473:ALA:HB3	2.00	0.41
1:e:27:TYR:CZ	1:e:263:SER:OG	2.52	0.41
1:e:126:TYR:CA	1:e:129:THR:CG2	2.95	0.41
1:e:254:ILE:O	1:e:254:ILE:HG22	2.20	0.41
1:f:14:LYS:HZ3	1:f:19:ARG:NE	2.17	0.41
1:f:37:TYR:CD2	1:f:276:LEU:HD12	2.52	0.41
1:f:259:LEU:HD13	1:f:259:LEU:O	2.21	0.41
1:g:97:LEU:HD23	1:g:99:ASP:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:128:VAL:N	1:h:390:SER:OG	2.53	0.41
1:h:234:GLY:HA2	1:h:235:MET:HA	1.78	0.41
1:i:259:LEU:HD22	1:i:260:ASP:N	2.34	0.41
1:i:277:ARG:NE	1:i:348:ILE:HG12	2.32	0.41
1:j:36:GLN:OE1	1:j:45:LYS:CG	2.69	0.41
1:j:289:MET:HE2	1:k:340:VAL:HB	1.96	0.41
1:k:20:LEU:C	1:k:167:VAL:HG11	2.45	0.41
1:k:157:PRO:HG2	1:l:173:PHE:CD2	2.55	0.41
1:k:288:LYS:HE3	1:k:335:GLN:HB3	2.02	0.41
1:k:314:ALA:HB1	1:k:318:ASP:HB3	1.96	0.41
1:k:359:ASN:OD1	1:l:380:GLU:CG	2.69	0.41
1:k:404:LEU:HD23	1:k:405:LEU:N	2.36	0.41
1:l:266:ARG:O	1:l:266:ARG:CG	2.69	0.41
1:l:288:LYS:HE3	1:l:335:GLN:HB3	2.03	0.41
1:a:70:ALA:O	1:a:71:SER:C	2.64	0.41
1:a:110:LEU:O	1:a:111:SER:C	2.62	0.41
1:a:136:GLN:HE21	1:a:136:GLN:HB2	1.41	0.41
1:a:140:ALA:HB1	1:a:265:GLY:O	2.21	0.41
1:a:348:ILE:CD1	1:a:351:ARG:NH2	2.80	0.41
1:a:406:LYS:HE2	1:a:406:LYS:HB2	1.58	0.41
1:b:140:ALA:HB1	1:b:265:GLY:O	2.21	0.41
1:b:142:ASN:ND2	1:b:142:ASN:H	2.14	0.41
1:b:327:ILE:HD12	1:b:327:ILE:C	2.45	0.41
1:b:409:GLN:O	1:b:409:GLN:CG	2.68	0.41
1:b:466:ILE:HD13	1:b:466:ILE:HA	1.59	0.41
1:c:20:LEU:C	1:c:167:VAL:HG11	2.45	0.41
1:c:36:GLN:OE1	1:c:45:LYS:CG	2.69	0.41
1:c:234:GLY:HA2	1:c:235:MET:HA	1.78	0.41
1:c:268:TYR:CD1	1:c:268:TYR:C	2.97	0.41
1:c:368:ARG:C	1:c:370:THR:CB	2.88	0.41
1:c:404:LEU:HD23	1:c:405:LEU:N	2.36	0.41
1:d:36:GLN:OE1	1:d:45:LYS:CG	2.69	0.41
1:d:86:LEU:CD1	1:d:422:VAL:HG12	2.50	0.41
1:d:157:PRO:HG2	1:e:173:PHE:CG	2.55	0.41
1:d:370:THR:CG2	1:d:371:ALA:H	2.33	0.41
1:d:450:ALA:HA	1:e:455:MET:CE	2.51	0.41
1:e:36:GLN:OE1	1:e:45:LYS:CG	2.69	0.41
1:e:70:ALA:O	1:e:71:SER:C	2.64	0.41
1:e:179:MET:HB2	1:e:217:ILE:HB	2.03	0.41
1:e:259:LEU:HD13	1:e:259:LEU:O	2.21	0.41
1:e:277:ARG:NH2	1:e:351:ARG:HH22	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:398:LEU:HA	1:e:398:LEU:HD13	1.48	0.41
1:e:439:LEU:HD23	1:f:474:ILE:HD12	2.03	0.41
1:f:27:TYR:HH	1:f:263:SER:CB	2.15	0.41
1:f:34:CYS:SG	1:f:270:GLU:OE2	2.79	0.41
1:f:140:ALA:HB1	1:f:265:GLY:O	2.21	0.41
1:f:439:LEU:HD23	1:g:473:ALA:HB3	2.01	0.41
1:f:452:LEU:HD22	1:f:452:LEU:HA	1.80	0.41
1:g:34:CYS:SG	1:g:270:GLU:OE2	2.79	0.41
1:g:68:ASN:O	1:g:69:LEU:C	2.64	0.41
1:g:86:LEU:CD1	1:g:422:VAL:HG12	2.51	0.41
1:g:254:ILE:O	1:g:254:ILE:HG22	2.20	0.41
1:g:259:LEU:HD13	1:g:259:LEU:O	2.21	0.41
1:g:289:MET:HE2	1:h:340:VAL:HB	1.98	0.41
1:g:353:SER:OG	1:g:354:PHE:N	2.52	0.41
1:h:244:TYR:OH	1:h:250:PRO:HD3	2.15	0.41
1:h:252:ILE:N	1:h:252:ILE:CD1	2.72	0.41
1:h:268:TYR:C	1:h:268:TYR:CD1	2.97	0.41
1:h:275:ASP:O	1:h:276:LEU:C	2.63	0.41
1:h:288:LYS:HE3	1:h:335:GLN:HB3	2.02	0.41
1:h:293:SER:HB2	1:i:284:GLU:CD	2.40	0.41
1:h:316:THR:OG1	1:j:287:VAL:HG11	2.20	0.41
1:h:416:GLU:CB	1:h:419:LYS:CE	2.85	0.41
1:h:416:GLU:CD	1:h:419:LYS:NZ	2.62	0.41
1:i:17:TYR:CZ	1:i:21:LYS:HB2	2.55	0.41
1:i:20:LEU:C	1:i:167:VAL:HG11	2.45	0.41
1:i:252:ILE:O	1:i:252:ILE:CD1	2.69	0.41
1:j:20:LEU:C	1:j:167:VAL:HG11	2.45	0.41
1:j:126:TYR:CA	1:j:129:THR:CG2	2.95	0.41
1:j:128:VAL:N	1:k:390:SER:OG	2.53	0.41
1:j:252:ILE:O	1:j:252:ILE:CD1	2.69	0.41
1:j:259:LEU:C	1:j:259:LEU:CD1	2.85	0.41
1:j:275:ASP:O	1:j:276:LEU:C	2.63	0.41
1:j:315:GLN:O	1:j:316:THR:C	2.63	0.41
1:j:419:LYS:N	1:j:419:LYS:CD	2.84	0.41
1:j:450:ALA:CA	1:k:455:MET:HE3	2.51	0.41
1:k:20:LEU:HB3	1:k:167:VAL:CB	2.35	0.41
1:k:34:CYS:SG	1:k:270:GLU:OE2	2.79	0.41
1:k:97:LEU:HD23	1:k:99:ASP:O	2.20	0.41
1:k:142:ASN:ND2	1:k:142:ASN:C	2.72	0.41
1:l:83:TRP:CD1	1:l:83:TRP:N	2.89	0.41
1:l:97:LEU:HD23	1:l:99:ASP:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:158:MET:HG2	1:l:159:LYS:N	2.35	0.41
1:l:315:GLN:O	1:l:316:THR:C	2.63	0.41
1:a:34:CYS:SG	1:a:270:GLU:OE2	2.79	0.41
1:a:112:MET:O	1:a:116:ILE:HG13	2.21	0.41
1:a:128:VAL:HB	1:b:391:ILE:N	2.35	0.41
1:a:316:THR:OG1	1:c:287:VAL:HG11	2.21	0.41
1:a:380:GLU:CB	1:l:359:ASN:CG	2.90	0.41
1:a:419:LYS:N	1:a:419:LYS:CD	2.84	0.41
1:c:83:TRP:CD1	1:c:83:TRP:N	2.89	0.41
1:c:140:ALA:HB1	1:c:265:GLY:O	2.21	0.41
1:c:266:ARG:O	1:c:266:ARG:CG	2.69	0.41
1:c:277:ARG:NH2	1:c:351:ARG:HH22	2.19	0.41
1:d:165:SER:OG	1:d:166:TYR:N	2.52	0.41
1:e:34:CYS:SG	1:e:270:GLU:OE2	2.79	0.41
1:e:359:ASN:OD1	1:f:380:GLU:CG	2.69	0.41
1:e:367:GLU:C	1:f:373:GLU:OE2	2.58	0.41
1:f:68:ASN:O	1:f:69:LEU:C	2.64	0.41
1:f:97:LEU:HD23	1:f:99:ASP:O	2.20	0.41
1:f:293:SER:HB2	1:g:284:GLU:CD	2.42	0.41
1:f:409:GLN:O	1:f:409:GLN:CG	2.69	0.41
1:g:368:ARG:O	1:g:370:THR:CA	2.66	0.41
1:h:97:LEU:HD23	1:h:99:ASP:O	2.20	0.41
1:i:38:THR:O	1:i:63:ALA:CB	2.63	0.41
1:i:315:GLN:O	1:i:316:THR:C	2.63	0.41
1:j:97:LEU:HD23	1:j:99:ASP:O	2.20	0.41
1:j:157:PRO:HG2	1:k:173:PHE:CG	2.55	0.41
1:j:353:SER:OG	1:j:354:PHE:N	2.51	0.41
1:j:409:GLN:O	1:j:409:GLN:CG	2.68	0.41
1:k:252:ILE:O	1:k:252:ILE:CD1	2.69	0.41
1:l:68:ASN:O	1:l:69:LEU:C	2.64	0.41
1:l:458:ASP:HA	1:l:459:PRO:HD3	1.85	0.41
1:a:98:SER:CB	1:a:103:LEU:HD23	2.44	0.40
1:a:452:LEU:HD22	1:a:452:LEU:HA	1.80	0.40
1:b:20:LEU:C	1:b:167:VAL:HG11	2.45	0.40
1:b:112:MET:O	1:b:116:ILE:N	2.52	0.40
1:b:131:PHE:CE2	1:c:387:GLY:CA	3.01	0.40
1:b:291:MET:HE2	1:b:291:MET:HB2	1.63	0.40
1:b:315:GLN:O	1:b:316:THR:C	2.63	0.40
1:b:404:LEU:HD23	1:b:405:LEU:N	2.36	0.40
1:b:474:ILE:N	1:b:474:ILE:CD1	2.75	0.40
1:c:147:LEU:HA	1:c:148:PRO:HD3	1.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:275:ASP:O	1:c:276:LEU:C	2.63	0.40
1:c:416:GLU:CD	1:c:419:LYS:NZ	2.62	0.40
1:d:250:PRO:HG2	1:d:251:TYR:CD2	2.55	0.40
1:d:348:ILE:HA	1:d:348:ILE:HD12	1.54	0.40
1:d:405:LEU:HD22	1:d:405:LEU:HA	1.78	0.40
1:e:97:LEU:HD23	1:e:99:ASP:O	2.20	0.40
1:f:32:GLN:NE2	1:f:32:GLN:CA	2.72	0.40
1:f:34:CYS:SG	1:f:270:GLU:CD	3.02	0.40
1:f:40:PRO:HA	1:f:41:SER:HA	1.65	0.40
1:f:441:LYS:C	1:f:474:ILE:HG21	2.44	0.40
1:g:54:TYR:CD2	1:g:55:GLN:O	2.75	0.40
1:g:179:MET:HB2	1:g:217:ILE:HB	2.03	0.40
1:h:252:ILE:O	1:h:252:ILE:CD1	2.69	0.40
1:h:259:LEU:HD13	1:h:259:LEU:O	2.21	0.40
1:h:354:PHE:C	1:h:357:MET:HE2	2.44	0.40
1:h:449:TRP:CB	1:i:455:MET:CE	2.69	0.40
1:h:483:LEU:HD21	1:i:462:ASN:HA	2.02	0.40
1:i:250:PRO:HG2	1:i:251:TYR:CD2	2.55	0.40
1:i:356:PHE:C	1:i:358:LEU:HD23	2.47	0.40
1:k:353:SER:OG	1:k:354:PHE:N	2.52	0.40
1:k:406:LYS:HB2	1:k:406:LYS:HE2	1.58	0.40
1:l:34:CYS:SG	1:l:270:GLU:OE2	2.79	0.40
1:l:244:TYR:OH	1:l:250:PRO:HD3	2.15	0.40
1:l:277:ARG:NH2	1:l:351:ARG:HH22	2.19	0.40
1:l:370:THR:CG2	1:l:371:ALA:N	2.70	0.40
1:l:400:LEU:HD22	1:l:400:LEU:HA	1.43	0.40
1:a:273:LEU:HD23	1:a:273:LEU:HA	1.92	0.40
1:a:309:ARG:HA	1:a:309:ARG:HD3	1.40	0.40
1:a:372:GLU:CD	1:a:372:GLU:N	2.77	0.40
1:b:36:GLN:OE1	1:b:45:LYS:CG	2.69	0.40
1:b:423:GLU:HA	1:b:424:PRO:HD3	1.81	0.40
1:b:485:GLU:N	1:b:485:GLU:CD	2.74	0.40
1:c:65:GLY:HA3	1:c:356:PHE:HD2	1.82	0.40
1:c:288:LYS:HE3	1:c:335:GLN:HB3	2.02	0.40
1:d:419:LYS:N	1:d:419:LYS:CD	2.84	0.40
1:e:368:ARG:O	1:e:370:THR:CA	2.69	0.40
1:f:36:GLN:OE1	1:f:45:LYS:CG	2.69	0.40
1:f:162:ARG:CD	1:g:260:ASP:CB	2.77	0.40
1:f:179:MET:HB2	1:f:217:ILE:HB	2.03	0.40
1:f:234:GLY:HA2	1:f:235:MET:HA	1.78	0.40
1:f:288:LYS:HE2	1:f:335:GLN:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:450:ALA:HA	1:g:455:MET:CE	2.51	0.40
1:g:37:TYR:CD2	1:g:276:LEU:HD12	2.52	0.40
1:h:147:LEU:HD12	1:h:407:GLN:HE22	0.46	0.40
1:h:409:GLN:O	1:h:409:GLN:CG	2.69	0.40
1:i:56:THR:HB	1:i:57:PRO:HD2	2.02	0.40
1:i:353:SER:OG	1:i:354:PHE:N	2.51	0.40
1:j:158:MET:HG2	1:j:159:LYS:N	2.35	0.40
1:j:291:MET:HE2	1:j:291:MET:HB2	1.63	0.40
1:l:112:MET:O	1:l:116:ILE:HG13	2.21	0.40
1:l:181:THR:OG1	1:l:215:THR:OG1	1.92	0.40
1:l:305:ILE:HD12	1:l:323:ARG:NE	2.26	0.40
1:l:323:ARG:HD2	1:l:324:PRO:HD3	2.01	0.40
1:l:404:LEU:HD23	1:l:405:LEU:N	2.35	0.40
1:a:288:LYS:HE3	1:a:335:GLN:HB3	2.02	0.40
1:a:315:GLN:O	1:a:316:THR:C	2.63	0.40
1:a:409:GLN:O	1:a:409:GLN:CG	2.69	0.40
1:b:34:CYS:SG	1:b:270:GLU:OE2	2.79	0.40
1:b:419:LYS:N	1:b:419:LYS:CD	2.84	0.40
1:d:66:LEU:CD2	1:d:66:LEU:C	2.84	0.40
1:d:70:ALA:O	1:d:71:SER:C	2.64	0.40
1:d:288:LYS:HE2	1:d:335:GLN:HB3	2.03	0.40
1:d:477:ASP:OD1	1:d:477:ASP:N	2.51	0.40
1:e:40:PRO:HA	1:e:41:SER:HA	1.65	0.40
1:e:59:GLN:HE21	1:e:278:SER:CB	2.15	0.40
1:e:72:LYS:HB2	1:e:72:LYS:NZ	2.24	0.40
1:e:275:ASP:O	1:e:276:LEU:C	2.63	0.40
1:f:86:LEU:CD1	1:f:422:VAL:HG12	2.50	0.40
1:f:266:ARG:O	1:f:266:ARG:CG	2.69	0.40
1:f:356:PHE:C	1:f:358:LEU:HD23	2.46	0.40
1:g:38:THR:HB	1:g:39:ILE:H	1.70	0.40
1:g:483:LEU:HD21	1:h:462:ASN:HA	2.02	0.40
1:i:112:MET:O	1:i:116:ILE:HG13	2.21	0.40
1:i:352:LEU:HD22	1:i:352:LEU:HA	1.47	0.40
1:i:409:GLN:O	1:i:409:GLN:CG	2.69	0.40
1:j:14:LYS:HZ3	1:j:19:ARG:NE	2.20	0.40
1:j:266:ARG:O	1:j:266:ARG:CG	2.69	0.40
1:k:405:LEU:HD22	1:k:405:LEU:HA	1.78	0.40
1:k:409:GLN:O	1:k:409:GLN:CG	2.69	0.40
1:l:66:LEU:CD2	1:l:135:LYS:CD	2.91	0.40
1:l:419:LYS:N	1:l:419:LYS:CD	2.84	0.40
1:a:450:ALA:N	1:b:455:MET:HE3	2.31	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:37:TYR:CD2	1:b:276:LEU:HD12	2.52	0.40
1:c:244:TYR:OH	1:c:250:PRO:HD3	2.15	0.40
1:c:368:ARG:O	1:c:370:THR:CA	2.70	0.40
1:c:476:ILE:CG1	1:d:469:ARG:HH12	2.31	0.40
1:d:34:CYS:SG	1:d:270:GLU:CD	3.02	0.40
1:d:83:TRP:CD1	1:d:83:TRP:N	2.89	0.40
1:d:259:LEU:HD13	1:d:259:LEU:O	2.21	0.40
1:d:323:ARG:HD3	1:d:323:ARG:HA	1.62	0.40
1:d:450:ALA:N	1:e:455:MET:HE3	2.34	0.40
1:e:404:LEU:HD23	1:e:405:LEU:N	2.36	0.40
1:e:483:LEU:HD21	1:f:462:ASN:HA	2.03	0.40
1:f:20:LEU:CD1	1:f:167:VAL:CG1	2.95	0.40
1:f:142:ASN:ND2	1:f:142:ASN:C	2.72	0.40
1:g:266:ARG:O	1:g:266:ARG:CG	2.69	0.40
1:h:68:ASN:O	1:h:69:LEU:C	2.64	0.40
1:h:483:LEU:HB2	1:i:460:ASP:C	2.47	0.40
1:i:311:LEU:HD23	1:i:311:LEU:HA	1.90	0.40
1:j:54:TYR:CD2	1:j:55:GLN:O	2.75	0.40
1:j:70:ALA:O	1:j:71:SER:C	2.64	0.40
1:j:81:GLN:C	1:j:82:THR:HG1	2.29	0.40
1:j:423:GLU:HA	1:j:424:PRO:HD3	1.81	0.40
1:k:29:THR:C	1:k:31:ALA:H	2.28	0.40
1:k:158:MET:HG2	1:k:159:LYS:N	2.36	0.40
1:l:20:LEU:C	1:l:167:VAL:HG11	2.45	0.40
1:l:179:MET:HB2	1:l:217:ILE:HB	2.03	0.40
1:a:36:GLN:OE1	1:a:45:LYS:CG	2.69	0.40
1:a:83:TRP:CD1	1:a:83:TRP:N	2.89	0.40
1:a:86:LEU:CD1	1:a:422:VAL:HG12	2.50	0.40
1:a:277:ARG:NH2	1:a:351:ARG:HH22	2.20	0.40
1:a:319:PHE:CD1	1:b:298:GLY:HA3	2.57	0.40
1:a:478:THR:HG22	1:a:479:SER:H	1.87	0.40
1:b:42:LEU:HD13	1:b:42:LEU:HA	1.41	0.40
1:b:97:LEU:HD23	1:b:99:ASP:O	2.20	0.40
1:b:293:SER:HB2	1:c:284:GLU:CD	2.41	0.40
1:c:77:LEU:C	1:c:77:LEU:CD2	2.85	0.40
1:c:478:THR:HG22	1:c:479:SER:H	1.87	0.40
1:d:179:MET:HB2	1:d:217:ILE:HB	2.03	0.40
1:e:68:ASN:O	1:e:69:LEU:C	2.64	0.40
1:e:112:MET:O	1:e:116:ILE:N	2.52	0.40
1:e:248:ALA:HB1	1:e:406:LYS:CD	2.31	0.40
1:f:277:ARG:NH2	1:f:351:ARG:HH22	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:29:THR:C	1:g:31:ALA:H	2.28	0.40
1:g:252:ILE:O	1:g:252:ILE:CD1	2.69	0.40
1:g:290:SER:C	1:h:284:GLU:CG	2.77	0.40
1:g:311:LEU:HD23	1:g:311:LEU:HA	1.90	0.40
1:g:419:LYS:N	1:g:419:LYS:CD	2.84	0.40
1:h:86:LEU:CD1	1:h:422:VAL:HG12	2.51	0.40
1:i:68:ASN:HD22	1:i:358:LEU:CD1	2.34	0.40
1:i:254:ILE:CA	1:i:395:GLU:HB3	2.47	0.40
1:i:466:ILE:HD13	1:i:466:ILE:HA	1.59	0.40
1:i:478:THR:HG22	1:i:479:SER:H	1.87	0.40
1:j:112:MET:O	1:j:116:ILE:HG13	2.21	0.40
1:k:147:LEU:HA	1:k:148:PRO:HD3	1.68	0.40
1:k:179:MET:HB2	1:k:217:ILE:HB	2.03	0.40
1:k:323:ARG:HD3	1:k:324:PRO:CD	2.49	0.40
1:k:478:THR:HG22	1:k:479:SER:H	1.87	0.40
1:l:252:ILE:O	1:l:252:ILE:CD1	2.69	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	a	425/536 (79%)	358 (84%)	44 (10%)	23 (5%)	1 15
1	b	425/536 (79%)	360 (85%)	43 (10%)	22 (5%)	1 15
1	c	425/536 (79%)	361 (85%)	42 (10%)	22 (5%)	1 15
1	d	425/536 (79%)	360 (85%)	44 (10%)	21 (5%)	1 16
1	e	425/536 (79%)	361 (85%)	42 (10%)	22 (5%)	1 15
1	f	425/536 (79%)	362 (85%)	41 (10%)	22 (5%)	1 15
1	g	425/536 (79%)	360 (85%)	44 (10%)	21 (5%)	1 16

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	h	425/536 (79%)	360 (85%)	43 (10%)	22 (5%)	1 15
1	i	425/536 (79%)	361 (85%)	42 (10%)	22 (5%)	1 15
1	j	425/536 (79%)	360 (85%)	44 (10%)	21 (5%)	1 16
1	k	425/536 (79%)	360 (85%)	43 (10%)	22 (5%)	1 15
1	l	425/536 (79%)	362 (85%)	42 (10%)	21 (5%)	1 16
All	All	5100/6432 (79%)	4325 (85%)	514 (10%)	261 (5%)	3 15

All (261) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	a	42	LEU
1	a	58	TRP
1	a	250	PRO
1	a	251	TYR
1	a	262	GLU
1	a	269	ILE
1	a	357	MET
1	a	370	THR
1	a	413	GLN
1	a	426	ILE
1	a	475	GLY
1	b	42	LEU
1	b	250	PRO
1	b	251	TYR
1	b	262	GLU
1	b	269	ILE
1	b	413	GLN
1	b	426	ILE
1	b	475	GLY
1	c	42	LEU
1	c	250	PRO
1	c	251	TYR
1	c	262	GLU
1	c	269	ILE
1	c	357	MET
1	c	370	THR
1	c	413	GLN
1	c	426	ILE
1	c	475	GLY
1	d	42	LEU

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Mol	Chain	Res	Type
1	d	250	PRO
1	d	251	TYR
1	d	262	GLU
1	d	269	ILE
1	d	370	THR
1	d	413	GLN
1	d	426	ILE
1	d	475	GLY
1	e	42	LEU
1	e	250	PRO
1	e	251	TYR
1	e	262	GLU
1	e	269	ILE
1	e	370	THR
1	e	413	GLN
1	e	426	ILE
1	e	475	GLY
1	f	42	LEU
1	f	250	PRO
1	f	251	TYR
1	f	262	GLU
1	f	269	ILE
1	f	357	MET
1	f	370	THR
1	f	413	GLN
1	f	426	ILE
1	f	475	GLY
1	g	42	LEU
1	g	250	PRO
1	g	251	TYR
1	g	262	GLU
1	g	269	ILE
1	g	370	THR
1	g	413	GLN
1	g	426	ILE
1	g	475	GLY
1	h	42	LEU
1	h	250	PRO
1	h	251	TYR
1	h	262	GLU
1	h	269	ILE
1	h	370	THR

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Mol	Chain	Res	Type
1	h	413	GLN
1	h	426	ILE
1	h	475	GLY
1	i	42	LEU
1	i	250	PRO
1	i	251	TYR
1	i	262	GLU
1	i	269	ILE
1	i	357	MET
1	i	370	THR
1	i	413	GLN
1	i	426	ILE
1	i	475	GLY
1	j	42	LEU
1	j	250	PRO
1	j	251	TYR
1	j	262	GLU
1	j	269	ILE
1	j	370	THR
1	j	413	GLN
1	j	426	ILE
1	j	475	GLY
1	k	42	LEU
1	k	250	PRO
1	k	251	TYR
1	k	262	GLU
1	k	269	ILE
1	k	370	THR
1	k	413	GLN
1	k	426	ILE
1	k	475	GLY
1	l	42	LEU
1	l	250	PRO
1	l	251	TYR
1	l	262	GLU
1	l	269	ILE
1	l	370	THR
1	l	413	GLN
1	l	426	ILE
1	l	475	GLY
1	a	172	ALA
1	a	178	GLN

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Mol	Chain	Res	Type
1	a	449	TRP
1	b	172	ALA
1	b	178	GLN
1	b	449	TRP
1	c	172	ALA
1	c	178	GLN
1	c	449	TRP
1	d	172	ALA
1	d	178	GLN
1	d	449	TRP
1	e	172	ALA
1	e	178	GLN
1	e	449	TRP
1	f	172	ALA
1	f	178	GLN
1	f	449	TRP
1	g	172	ALA
1	g	178	GLN
1	g	449	TRP
1	h	172	ALA
1	h	178	GLN
1	h	449	TRP
1	i	172	ALA
1	i	178	GLN
1	i	449	TRP
1	j	172	ALA
1	j	178	GLN
1	j	449	TRP
1	k	172	ALA
1	k	178	GLN
1	k	449	TRP
1	l	172	ALA
1	l	178	GLN
1	l	449	TRP
1	a	145	LEU
1	a	244	TYR
1	a	490	GLN
1	b	145	LEU
1	b	244	TYR
1	b	370	THR
1	b	490	GLN
1	c	145	LEU

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Mol	Chain	Res	Type
1	c	244	TYR
1	c	490	GLN
1	d	145	LEU
1	d	244	TYR
1	d	490	GLN
1	e	145	LEU
1	e	244	TYR
1	e	490	GLN
1	f	145	LEU
1	f	244	TYR
1	f	490	GLN
1	g	145	LEU
1	g	244	TYR
1	g	490	GLN
1	h	145	LEU
1	h	244	TYR
1	h	490	GLN
1	i	145	LEU
1	i	244	TYR
1	i	490	GLN
1	j	145	LEU
1	j	244	TYR
1	j	490	GLN
1	k	145	LEU
1	k	244	TYR
1	k	490	GLN
1	l	145	LEU
1	l	244	TYR
1	l	490	GLN
1	a	249	CYS
1	a	263	SER
1	a	268	TYR
1	b	249	CYS
1	b	263	SER
1	b	268	TYR
1	b	357	MET
1	c	249	CYS
1	c	263	SER
1	c	268	TYR
1	d	249	CYS
1	d	263	SER
1	d	268	TYR

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Mol	Chain	Res	Type
1	e	249	CYS
1	e	263	SER
1	e	268	TYR
1	e	357	MET
1	f	249	CYS
1	f	263	SER
1	f	268	TYR
1	g	249	CYS
1	g	263	SER
1	g	268	TYR
1	h	249	CYS
1	h	263	SER
1	h	268	TYR
1	h	357	MET
1	i	249	CYS
1	i	263	SER
1	i	268	TYR
1	j	249	CYS
1	j	263	SER
1	j	268	TYR
1	k	249	CYS
1	k	263	SER
1	k	268	TYR
1	k	357	MET
1	l	249	CYS
1	l	263	SER
1	l	268	TYR
1	a	424	PRO
1	b	424	PRO
1	c	424	PRO
1	d	424	PRO
1	e	424	PRO
1	f	424	PRO
1	g	424	PRO
1	h	424	PRO
1	i	424	PRO
1	j	424	PRO
1	k	424	PRO
1	l	424	PRO
1	a	414	ILE
1	b	414	ILE
1	c	414	ILE

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Mol	Chain	Res	Type
1	d	414	ILE
1	e	414	ILE
1	f	414	ILE
1	g	414	ILE
1	h	414	ILE
1	i	414	ILE
1	j	414	ILE
1	k	414	ILE
1	l	414	ILE
1	a	100	PRO
1	b	100	PRO
1	c	100	PRO
1	d	100	PRO
1	e	100	PRO
1	f	100	PRO
1	g	100	PRO
1	h	100	PRO
1	i	100	PRO
1	j	100	PRO
1	k	100	PRO
1	l	100	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	a	377/442 (85%)	271 (72%)	106 (28%)	0	3
1	b	377/442 (85%)	270 (72%)	107 (28%)	0	3
1	c	377/442 (85%)	271 (72%)	106 (28%)	0	3
1	d	377/442 (85%)	272 (72%)	105 (28%)	0	3
1	e	377/442 (85%)	270 (72%)	107 (28%)	0	3
1	f	377/442 (85%)	271 (72%)	106 (28%)	0	3
1	g	377/442 (85%)	272 (72%)	105 (28%)	0	3
1	h	377/442 (85%)	270 (72%)	107 (28%)	0	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	i	377/442 (85%)	270 (72%)	107 (28%)	0 3
1	j	377/442 (85%)	272 (72%)	105 (28%)	0 3
1	k	377/442 (85%)	269 (71%)	108 (29%)	0 3
1	l	377/442 (85%)	271 (72%)	106 (28%)	0 3
All	All	4524/5304 (85%)	3249 (72%)	1275 (28%)	1 3

All (1275) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	a	16	VAL
1	a	22	ASN
1	a	24	ARG
1	a	32	GLN
1	a	39	ILE
1	a	42	LEU
1	a	45	LYS
1	a	51	SER
1	a	52	THR
1	a	53	ASP
1	a	55	GLN
1	a	71	SER
1	a	72	LYS
1	a	78	PHE
1	a	86	LEU
1	a	99	ASP
1	a	101	ASP
1	a	105	LYS
1	a	106	VAL
1	a	107	ASP
1	a	110	LEU
1	a	114	GLU
1	a	117	ILE
1	a	126	TYR
1	a	128	VAL
1	a	129	THR
1	a	130	LEU
1	a	134	LEU
1	a	135	LYS
1	a	136	GLN
1	a	142	ASN
1	a	143	VAL

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Mol	Chain	Res	Type
1	a	144	LEU
1	a	147	LEU
1	a	166	TYR
1	a	168	VAL
1	a	170	ARG
1	a	175	ASN
1	a	241	ASP
1	a	243	THR
1	a	246	LYS
1	a	247	GLU
1	a	250	PRO
1	a	251	TYR
1	a	252	ILE
1	a	256	MET
1	a	258	ARG
1	a	259	LEU
1	a	264	TYR
1	a	266	ARG
1	a	268	TYR
1	a	282	LEU
1	a	283	GLN
1	a	286	ILE
1	a	291	MET
1	a	292	ILE
1	a	309	ARG
1	a	312	THR
1	a	315	GLN
1	a	325	GLU
1	a	326	ASP
1	a	328	SER
1	a	333	GLU
1	a	335	GLN
1	a	337	ASP
1	a	338	PHE
1	a	339	THR
1	a	342	LYS
1	a	344	VAL
1	a	348	ILE
1	a	352	LEU
1	a	358	LEU
1	a	372	GLU
1	a	374	ILE

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Mol	Chain	Res	Type
1	a	376	TYR
1	a	379	SER
1	a	388	VAL
1	a	391	ILE
1	a	393	SER
1	a	396	LEU
1	a	398	LEU
1	a	400	LEU
1	a	401	VAL
1	a	402	ARG
1	a	404	LEU
1	a	405	LEU
1	a	406	LYS
1	a	409	GLN
1	a	411	THR
1	a	412	GLN
1	a	417	LEU
1	a	419	LYS
1	a	428	THR
1	a	435	ARG
1	a	439	LEU
1	a	442	LEU
1	a	446	VAL
1	a	447	THR
1	a	452	LEU
1	a	456	ARG
1	a	457	ASP
1	a	461	ILE
1	a	466	ILE
1	a	474	ILE
1	a	485	GLU
1	a	486	GLU
1	b	16	VAL
1	b	22	ASN
1	b	24	ARG
1	b	32	GLN
1	b	39	ILE
1	b	42	LEU
1	b	45	LYS
1	b	51	SER
1	b	52	THR
1	b	53	ASP

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Mol	Chain	Res	Type
1	b	55	GLN
1	b	71	SER
1	b	72	LYS
1	b	74	MET
1	b	78	PHE
1	b	86	LEU
1	b	99	ASP
1	b	101	ASP
1	b	105	LYS
1	b	106	VAL
1	b	107	ASP
1	b	110	LEU
1	b	114	GLU
1	b	117	ILE
1	b	126	TYR
1	b	128	VAL
1	b	129	THR
1	b	130	LEU
1	b	134	LEU
1	b	135	LYS
1	b	136	GLN
1	b	142	ASN
1	b	143	VAL
1	b	144	LEU
1	b	147	LEU
1	b	166	TYR
1	b	168	VAL
1	b	170	ARG
1	b	175	ASN
1	b	241	ASP
1	b	243	THR
1	b	246	LYS
1	b	247	GLU
1	b	250	PRO
1	b	251	TYR
1	b	252	ILE
1	b	256	MET
1	b	258	ARG
1	b	259	LEU
1	b	264	TYR
1	b	266	ARG
1	b	268	TYR

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Mol	Chain	Res	Type
1	b	282	LEU
1	b	283	GLN
1	b	286	ILE
1	b	291	MET
1	b	292	ILE
1	b	309	ARG
1	b	312	THR
1	b	315	GLN
1	b	325	GLU
1	b	326	ASP
1	b	328	SER
1	b	335	GLN
1	b	337	ASP
1	b	338	PHE
1	b	339	THR
1	b	342	LYS
1	b	344	VAL
1	b	348	ILE
1	b	352	LEU
1	b	358	LEU
1	b	368	ARG
1	b	372	GLU
1	b	374	ILE
1	b	376	TYR
1	b	379	SER
1	b	388	VAL
1	b	391	ILE
1	b	393	SER
1	b	396	LEU
1	b	398	LEU
1	b	400	LEU
1	b	401	VAL
1	b	402	ARG
1	b	404	LEU
1	b	405	LEU
1	b	406	LYS
1	b	409	GLN
1	b	411	THR
1	b	412	GLN
1	b	417	LEU
1	b	419	LYS
1	b	428	THR

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Mol	Chain	Res	Type
1	b	435	ARG
1	b	439	LEU
1	b	442	LEU
1	b	446	VAL
1	b	447	THR
1	b	452	LEU
1	b	456	ARG
1	b	457	ASP
1	b	461	ILE
1	b	466	ILE
1	b	474	ILE
1	b	485	GLU
1	b	486	GLU
1	c	16	VAL
1	c	22	ASN
1	c	24	ARG
1	c	32	GLN
1	c	39	ILE
1	c	42	LEU
1	c	45	LYS
1	c	51	SER
1	c	52	THR
1	c	53	ASP
1	c	55	GLN
1	c	71	SER
1	c	72	LYS
1	c	78	PHE
1	c	86	LEU
1	c	99	ASP
1	c	101	ASP
1	c	105	LYS
1	c	106	VAL
1	c	107	ASP
1	c	114	GLU
1	c	117	ILE
1	c	126	TYR
1	c	128	VAL
1	c	129	THR
1	c	130	LEU
1	c	134	LEU
1	c	135	LYS
1	c	136	GLN

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Mol	Chain	Res	Type
1	c	142	ASN
1	c	143	VAL
1	c	144	LEU
1	c	147	LEU
1	c	166	TYR
1	c	168	VAL
1	c	170	ARG
1	c	175	ASN
1	c	241	ASP
1	c	243	THR
1	c	246	LYS
1	c	247	GLU
1	c	250	PRO
1	c	251	TYR
1	c	252	ILE
1	c	256	MET
1	c	258	ARG
1	c	259	LEU
1	c	264	TYR
1	c	266	ARG
1	c	268	TYR
1	c	282	LEU
1	c	283	GLN
1	c	286	ILE
1	c	291	MET
1	c	292	ILE
1	c	309	ARG
1	c	312	THR
1	c	315	GLN
1	c	325	GLU
1	c	326	ASP
1	c	328	SER
1	c	333	GLU
1	c	335	GLN
1	c	337	ASP
1	c	338	PHE
1	c	339	THR
1	c	342	LYS
1	c	344	VAL
1	c	348	ILE
1	c	352	LEU
1	c	358	LEU

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Mol	Chain	Res	Type
1	c	370	THR
1	c	372	GLU
1	c	374	ILE
1	c	376	TYR
1	c	379	SER
1	c	388	VAL
1	c	391	ILE
1	c	393	SER
1	c	396	LEU
1	c	398	LEU
1	c	400	LEU
1	c	401	VAL
1	c	402	ARG
1	c	404	LEU
1	c	405	LEU
1	c	406	LYS
1	c	409	GLN
1	c	411	THR
1	c	412	GLN
1	c	417	LEU
1	c	419	LYS
1	c	428	THR
1	c	435	ARG
1	c	439	LEU
1	c	442	LEU
1	c	446	VAL
1	c	447	THR
1	c	452	LEU
1	c	456	ARG
1	c	457	ASP
1	c	461	ILE
1	c	466	ILE
1	c	474	ILE
1	c	485	GLU
1	c	486	GLU
1	d	16	VAL
1	d	22	ASN
1	d	24	ARG
1	d	32	GLN
1	d	39	ILE
1	d	42	LEU
1	d	45	LYS

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Mol	Chain	Res	Type
1	d	52	THR
1	d	53	ASP
1	d	55	GLN
1	d	71	SER
1	d	72	LYS
1	d	78	PHE
1	d	86	LEU
1	d	99	ASP
1	d	101	ASP
1	d	105	LYS
1	d	106	VAL
1	d	107	ASP
1	d	110	LEU
1	d	114	GLU
1	d	117	ILE
1	d	126	TYR
1	d	128	VAL
1	d	129	THR
1	d	130	LEU
1	d	134	LEU
1	d	135	LYS
1	d	136	GLN
1	d	142	ASN
1	d	143	VAL
1	d	144	LEU
1	d	147	LEU
1	d	166	TYR
1	d	168	VAL
1	d	170	ARG
1	d	175	ASN
1	d	241	ASP
1	d	243	THR
1	d	246	LYS
1	d	247	GLU
1	d	250	PRO
1	d	251	TYR
1	d	252	ILE
1	d	256	MET
1	d	258	ARG
1	d	259	LEU
1	d	264	TYR
1	d	266	ARG

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Mol	Chain	Res	Type
1	d	282	LEU
1	d	283	GLN
1	d	286	ILE
1	d	291	MET
1	d	292	ILE
1	d	309	ARG
1	d	312	THR
1	d	315	GLN
1	d	325	GLU
1	d	326	ASP
1	d	328	SER
1	d	333	GLU
1	d	335	GLN
1	d	337	ASP
1	d	338	PHE
1	d	339	THR
1	d	342	LYS
1	d	344	VAL
1	d	348	ILE
1	d	352	LEU
1	d	358	LEU
1	d	370	THR
1	d	372	GLU
1	d	374	ILE
1	d	376	TYR
1	d	379	SER
1	d	388	VAL
1	d	391	ILE
1	d	393	SER
1	d	396	LEU
1	d	398	LEU
1	d	400	LEU
1	d	401	VAL
1	d	402	ARG
1	d	404	LEU
1	d	405	LEU
1	d	406	LYS
1	d	409	GLN
1	d	411	THR
1	d	412	GLN
1	d	417	LEU
1	d	419	LYS

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Mol	Chain	Res	Type
1	d	428	THR
1	d	435	ARG
1	d	439	LEU
1	d	442	LEU
1	d	446	VAL
1	d	447	THR
1	d	452	LEU
1	d	456	ARG
1	d	457	ASP
1	d	461	ILE
1	d	466	ILE
1	d	474	ILE
1	d	485	GLU
1	d	486	GLU
1	e	16	VAL
1	e	22	ASN
1	e	24	ARG
1	e	32	GLN
1	e	39	ILE
1	e	42	LEU
1	e	45	LYS
1	e	51	SER
1	e	52	THR
1	e	53	ASP
1	e	55	GLN
1	e	71	SER
1	e	72	LYS
1	e	74	MET
1	e	78	PHE
1	e	86	LEU
1	e	99	ASP
1	e	101	ASP
1	e	105	LYS
1	e	106	VAL
1	e	107	ASP
1	e	110	LEU
1	e	114	GLU
1	e	117	ILE
1	e	126	TYR
1	e	128	VAL
1	e	129	THR
1	e	130	LEU

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Mol	Chain	Res	Type
1	e	134	LEU
1	e	135	LYS
1	e	136	GLN
1	e	142	ASN
1	e	143	VAL
1	e	144	LEU
1	e	147	LEU
1	e	166	TYR
1	e	168	VAL
1	e	170	ARG
1	e	175	ASN
1	e	241	ASP
1	e	243	THR
1	e	246	LYS
1	e	247	GLU
1	e	250	PRO
1	e	251	TYR
1	e	252	ILE
1	e	256	MET
1	e	258	ARG
1	e	259	LEU
1	e	264	TYR
1	e	266	ARG
1	e	268	TYR
1	e	282	LEU
1	e	283	GLN
1	e	286	ILE
1	e	291	MET
1	e	292	ILE
1	e	309	ARG
1	e	312	THR
1	e	315	GLN
1	e	325	GLU
1	e	326	ASP
1	e	328	SER
1	e	335	GLN
1	e	337	ASP
1	e	338	PHE
1	e	339	THR
1	e	342	LYS
1	e	344	VAL
1	e	348	ILE

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Mol	Chain	Res	Type
1	e	352	LEU
1	e	358	LEU
1	e	370	THR
1	e	372	GLU
1	e	374	ILE
1	e	376	TYR
1	e	379	SER
1	e	388	VAL
1	e	391	ILE
1	e	393	SER
1	e	396	LEU
1	e	398	LEU
1	e	400	LEU
1	e	401	VAL
1	e	402	ARG
1	e	404	LEU
1	e	405	LEU
1	e	406	LYS
1	e	409	GLN
1	e	411	THR
1	e	412	GLN
1	e	417	LEU
1	e	419	LYS
1	e	428	THR
1	e	435	ARG
1	e	439	LEU
1	e	442	LEU
1	e	446	VAL
1	e	447	THR
1	e	452	LEU
1	e	456	ARG
1	e	457	ASP
1	e	461	ILE
1	e	466	ILE
1	e	474	ILE
1	e	485	GLU
1	e	486	GLU
1	f	16	VAL
1	f	22	ASN
1	f	24	ARG
1	f	32	GLN
1	f	39	ILE

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Mol	Chain	Res	Type
1	f	42	LEU
1	f	45	LYS
1	f	51	SER
1	f	52	THR
1	f	53	ASP
1	f	55	GLN
1	f	71	SER
1	f	72	LYS
1	f	78	PHE
1	f	86	LEU
1	f	99	ASP
1	f	101	ASP
1	f	105	LYS
1	f	106	VAL
1	f	107	ASP
1	f	110	LEU
1	f	114	GLU
1	f	117	ILE
1	f	126	TYR
1	f	128	VAL
1	f	129	THR
1	f	130	LEU
1	f	134	LEU
1	f	135	LYS
1	f	136	GLN
1	f	142	ASN
1	f	143	VAL
1	f	144	LEU
1	f	147	LEU
1	f	166	TYR
1	f	168	VAL
1	f	170	ARG
1	f	175	ASN
1	f	241	ASP
1	f	243	THR
1	f	246	LYS
1	f	247	GLU
1	f	250	PRO
1	f	251	TYR
1	f	252	ILE
1	f	256	MET
1	f	258	ARG

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Mol	Chain	Res	Type
1	f	259	LEU
1	f	264	TYR
1	f	266	ARG
1	f	268	TYR
1	f	282	LEU
1	f	283	GLN
1	f	286	ILE
1	f	291	MET
1	f	292	ILE
1	f	309	ARG
1	f	312	THR
1	f	315	GLN
1	f	325	GLU
1	f	326	ASP
1	f	328	SER
1	f	335	GLN
1	f	337	ASP
1	f	338	PHE
1	f	339	THR
1	f	342	LYS
1	f	344	VAL
1	f	348	ILE
1	f	352	LEU
1	f	358	LEU
1	f	370	THR
1	f	372	GLU
1	f	374	ILE
1	f	376	TYR
1	f	379	SER
1	f	388	VAL
1	f	391	ILE
1	f	393	SER
1	f	396	LEU
1	f	398	LEU
1	f	400	LEU
1	f	401	VAL
1	f	402	ARG
1	f	404	LEU
1	f	405	LEU
1	f	406	LYS
1	f	409	GLN
1	f	411	THR

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Mol	Chain	Res	Type
1	f	412	GLN
1	f	417	LEU
1	f	419	LYS
1	f	428	THR
1	f	435	ARG
1	f	439	LEU
1	f	442	LEU
1	f	446	VAL
1	f	447	THR
1	f	452	LEU
1	f	456	ARG
1	f	457	ASP
1	f	461	ILE
1	f	466	ILE
1	f	474	ILE
1	f	485	GLU
1	f	486	GLU
1	g	16	VAL
1	g	22	ASN
1	g	24	ARG
1	g	32	GLN
1	g	39	ILE
1	g	42	LEU
1	g	45	LYS
1	g	52	THR
1	g	53	ASP
1	g	55	GLN
1	g	71	SER
1	g	72	LYS
1	g	78	PHE
1	g	86	LEU
1	g	99	ASP
1	g	101	ASP
1	g	105	LYS
1	g	106	VAL
1	g	107	ASP
1	g	110	LEU
1	g	114	GLU
1	g	117	ILE
1	g	126	TYR
1	g	128	VAL
1	g	129	THR

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Mol	Chain	Res	Type
1	g	130	LEU
1	g	134	LEU
1	g	135	LYS
1	g	136	GLN
1	g	142	ASN
1	g	143	VAL
1	g	144	LEU
1	g	147	LEU
1	g	166	TYR
1	g	168	VAL
1	g	170	ARG
1	g	175	ASN
1	g	241	ASP
1	g	243	THR
1	g	246	LYS
1	g	247	GLU
1	g	250	PRO
1	g	251	TYR
1	g	252	ILE
1	g	256	MET
1	g	258	ARG
1	g	259	LEU
1	g	264	TYR
1	g	266	ARG
1	g	268	TYR
1	g	282	LEU
1	g	283	GLN
1	g	286	ILE
1	g	291	MET
1	g	292	ILE
1	g	309	ARG
1	g	312	THR
1	g	315	GLN
1	g	325	GLU
1	g	326	ASP
1	g	328	SER
1	g	335	GLN
1	g	337	ASP
1	g	338	PHE
1	g	339	THR
1	g	342	LYS
1	g	344	VAL

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Mol	Chain	Res	Type
1	g	348	ILE
1	g	352	LEU
1	g	358	LEU
1	g	370	THR
1	g	372	GLU
1	g	374	ILE
1	g	376	TYR
1	g	379	SER
1	g	388	VAL
1	g	391	ILE
1	g	393	SER
1	g	396	LEU
1	g	398	LEU
1	g	400	LEU
1	g	401	VAL
1	g	402	ARG
1	g	404	LEU
1	g	405	LEU
1	g	406	LYS
1	g	409	GLN
1	g	411	THR
1	g	412	GLN
1	g	417	LEU
1	g	419	LYS
1	g	428	THR
1	g	435	ARG
1	g	439	LEU
1	g	442	LEU
1	g	446	VAL
1	g	447	THR
1	g	452	LEU
1	g	456	ARG
1	g	457	ASP
1	g	461	ILE
1	g	466	ILE
1	g	474	ILE
1	g	485	GLU
1	g	486	GLU
1	h	16	VAL
1	h	22	ASN
1	h	24	ARG
1	h	32	GLN

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Mol	Chain	Res	Type
1	h	39	ILE
1	h	42	LEU
1	h	45	LYS
1	h	51	SER
1	h	52	THR
1	h	53	ASP
1	h	55	GLN
1	h	71	SER
1	h	72	LYS
1	h	78	PHE
1	h	86	LEU
1	h	99	ASP
1	h	101	ASP
1	h	105	LYS
1	h	106	VAL
1	h	107	ASP
1	h	110	LEU
1	h	114	GLU
1	h	117	ILE
1	h	126	TYR
1	h	128	VAL
1	h	129	THR
1	h	130	LEU
1	h	134	LEU
1	h	135	LYS
1	h	136	GLN
1	h	142	ASN
1	h	143	VAL
1	h	144	LEU
1	h	147	LEU
1	h	166	TYR
1	h	168	VAL
1	h	170	ARG
1	h	175	ASN
1	h	241	ASP
1	h	243	THR
1	h	246	LYS
1	h	247	GLU
1	h	250	PRO
1	h	251	TYR
1	h	252	ILE
1	h	256	MET

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Mol	Chain	Res	Type
1	h	258	ARG
1	h	259	LEU
1	h	264	TYR
1	h	266	ARG
1	h	268	TYR
1	h	282	LEU
1	h	283	GLN
1	h	286	ILE
1	h	291	MET
1	h	292	ILE
1	h	309	ARG
1	h	312	THR
1	h	315	GLN
1	h	325	GLU
1	h	326	ASP
1	h	328	SER
1	h	333	GLU
1	h	335	GLN
1	h	337	ASP
1	h	338	PHE
1	h	339	THR
1	h	342	LYS
1	h	344	VAL
1	h	348	ILE
1	h	352	LEU
1	h	358	LEU
1	h	370	THR
1	h	372	GLU
1	h	374	ILE
1	h	376	TYR
1	h	379	SER
1	h	388	VAL
1	h	391	ILE
1	h	393	SER
1	h	396	LEU
1	h	398	LEU
1	h	400	LEU
1	h	401	VAL
1	h	402	ARG
1	h	404	LEU
1	h	405	LEU
1	h	406	LYS

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Mol	Chain	Res	Type
1	h	409	GLN
1	h	411	THR
1	h	412	GLN
1	h	417	LEU
1	h	419	LYS
1	h	428	THR
1	h	435	ARG
1	h	439	LEU
1	h	442	LEU
1	h	446	VAL
1	h	447	THR
1	h	452	LEU
1	h	456	ARG
1	h	457	ASP
1	h	461	ILE
1	h	466	ILE
1	h	474	ILE
1	h	485	GLU
1	h	486	GLU
1	i	16	VAL
1	i	22	ASN
1	i	24	ARG
1	i	32	GLN
1	i	39	ILE
1	i	42	LEU
1	i	45	LYS
1	i	51	SER
1	i	52	THR
1	i	53	ASP
1	i	55	GLN
1	i	71	SER
1	i	72	LYS
1	i	78	PHE
1	i	86	LEU
1	i	99	ASP
1	i	101	ASP
1	i	105	LYS
1	i	106	VAL
1	i	107	ASP
1	i	110	LEU
1	i	114	GLU
1	i	117	ILE

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Mol	Chain	Res	Type
1	i	126	TYR
1	i	128	VAL
1	i	129	THR
1	i	130	LEU
1	i	134	LEU
1	i	135	LYS
1	i	136	GLN
1	i	142	ASN
1	i	143	VAL
1	i	144	LEU
1	i	147	LEU
1	i	166	TYR
1	i	168	VAL
1	i	170	ARG
1	i	175	ASN
1	i	241	ASP
1	i	243	THR
1	i	246	LYS
1	i	247	GLU
1	i	250	PRO
1	i	251	TYR
1	i	252	ILE
1	i	256	MET
1	i	258	ARG
1	i	259	LEU
1	i	264	TYR
1	i	266	ARG
1	i	268	TYR
1	i	282	LEU
1	i	283	GLN
1	i	286	ILE
1	i	291	MET
1	i	292	ILE
1	i	309	ARG
1	i	312	THR
1	i	315	GLN
1	i	325	GLU
1	i	326	ASP
1	i	328	SER
1	i	333	GLU
1	i	335	GLN
1	i	337	ASP

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Mol	Chain	Res	Type
1	i	338	PHE
1	i	339	THR
1	i	342	LYS
1	i	344	VAL
1	i	348	ILE
1	i	352	LEU
1	i	358	LEU
1	i	370	THR
1	i	372	GLU
1	i	374	ILE
1	i	376	TYR
1	i	379	SER
1	i	388	VAL
1	i	391	ILE
1	i	393	SER
1	i	396	LEU
1	i	398	LEU
1	i	400	LEU
1	i	401	VAL
1	i	402	ARG
1	i	404	LEU
1	i	405	LEU
1	i	406	LYS
1	i	409	GLN
1	i	411	THR
1	i	412	GLN
1	i	417	LEU
1	i	419	LYS
1	i	428	THR
1	i	435	ARG
1	i	439	LEU
1	i	442	LEU
1	i	446	VAL
1	i	447	THR
1	i	452	LEU
1	i	456	ARG
1	i	457	ASP
1	i	461	ILE
1	i	466	ILE
1	i	474	ILE
1	i	485	GLU
1	i	486	GLU

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Mol	Chain	Res	Type
1	j	16	VAL
1	j	22	ASN
1	j	24	ARG
1	j	32	GLN
1	j	39	ILE
1	j	42	LEU
1	j	45	LYS
1	j	52	THR
1	j	53	ASP
1	j	55	GLN
1	j	71	SER
1	j	72	LYS
1	j	78	PHE
1	j	86	LEU
1	j	99	ASP
1	j	101	ASP
1	j	105	LYS
1	j	106	VAL
1	j	107	ASP
1	j	110	LEU
1	j	114	GLU
1	j	117	ILE
1	j	126	TYR
1	j	128	VAL
1	j	129	THR
1	j	130	LEU
1	j	134	LEU
1	j	135	LYS
1	j	136	GLN
1	j	142	ASN
1	j	143	VAL
1	j	144	LEU
1	j	147	LEU
1	j	166	TYR
1	j	168	VAL
1	j	170	ARG
1	j	175	ASN
1	j	241	ASP
1	j	243	THR
1	j	246	LYS
1	j	247	GLU
1	j	250	PRO

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Mol	Chain	Res	Type
1	j	251	TYR
1	j	252	ILE
1	j	256	MET
1	j	258	ARG
1	j	259	LEU
1	j	264	TYR
1	j	266	ARG
1	j	268	TYR
1	j	282	LEU
1	j	283	GLN
1	j	286	ILE
1	j	291	MET
1	j	292	ILE
1	j	309	ARG
1	j	312	THR
1	j	315	GLN
1	j	325	GLU
1	j	326	ASP
1	j	328	SER
1	j	335	GLN
1	j	337	ASP
1	j	338	PHE
1	j	339	THR
1	j	342	LYS
1	j	344	VAL
1	j	348	ILE
1	j	352	LEU
1	j	358	LEU
1	j	370	THR
1	j	372	GLU
1	j	374	ILE
1	j	376	TYR
1	j	379	SER
1	j	388	VAL
1	j	391	ILE
1	j	393	SER
1	j	396	LEU
1	j	398	LEU
1	j	400	LEU
1	j	401	VAL
1	j	402	ARG
1	j	404	LEU

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Mol	Chain	Res	Type
1	j	405	LEU
1	j	406	LYS
1	j	409	GLN
1	j	411	THR
1	j	412	GLN
1	j	417	LEU
1	j	419	LYS
1	j	428	THR
1	j	435	ARG
1	j	439	LEU
1	j	442	LEU
1	j	446	VAL
1	j	447	THR
1	j	452	LEU
1	j	456	ARG
1	j	457	ASP
1	j	461	ILE
1	j	466	ILE
1	j	474	ILE
1	j	485	GLU
1	j	486	GLU
1	k	16	VAL
1	k	22	ASN
1	k	24	ARG
1	k	32	GLN
1	k	39	ILE
1	k	42	LEU
1	k	45	LYS
1	k	51	SER
1	k	52	THR
1	k	53	ASP
1	k	55	GLN
1	k	71	SER
1	k	72	LYS
1	k	74	MET
1	k	78	PHE
1	k	86	LEU
1	k	99	ASP
1	k	101	ASP
1	k	105	LYS
1	k	106	VAL
1	k	107	ASP

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Mol	Chain	Res	Type
1	k	110	LEU
1	k	114	GLU
1	k	117	ILE
1	k	126	TYR
1	k	128	VAL
1	k	129	THR
1	k	130	LEU
1	k	134	LEU
1	k	135	LYS
1	k	136	GLN
1	k	142	ASN
1	k	143	VAL
1	k	144	LEU
1	k	147	LEU
1	k	166	TYR
1	k	168	VAL
1	k	170	ARG
1	k	175	ASN
1	k	241	ASP
1	k	243	THR
1	k	246	LYS
1	k	247	GLU
1	k	250	PRO
1	k	251	TYR
1	k	252	ILE
1	k	256	MET
1	k	258	ARG
1	k	259	LEU
1	k	264	TYR
1	k	266	ARG
1	k	268	TYR
1	k	282	LEU
1	k	283	GLN
1	k	286	ILE
1	k	291	MET
1	k	292	ILE
1	k	309	ARG
1	k	312	THR
1	k	315	GLN
1	k	325	GLU
1	k	326	ASP
1	k	328	SER

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Mol	Chain	Res	Type
1	k	333	GLU
1	k	335	GLN
1	k	337	ASP
1	k	338	PHE
1	k	339	THR
1	k	342	LYS
1	k	344	VAL
1	k	348	ILE
1	k	352	LEU
1	k	358	LEU
1	k	370	THR
1	k	372	GLU
1	k	374	ILE
1	k	376	TYR
1	k	379	SER
1	k	388	VAL
1	k	391	ILE
1	k	393	SER
1	k	396	LEU
1	k	398	LEU
1	k	400	LEU
1	k	401	VAL
1	k	402	ARG
1	k	404	LEU
1	k	405	LEU
1	k	406	LYS
1	k	409	GLN
1	k	411	THR
1	k	412	GLN
1	k	417	LEU
1	k	419	LYS
1	k	428	THR
1	k	435	ARG
1	k	439	LEU
1	k	442	LEU
1	k	446	VAL
1	k	447	THR
1	k	452	LEU
1	k	456	ARG
1	k	457	ASP
1	k	461	ILE
1	k	466	ILE

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Mol	Chain	Res	Type
1	k	474	ILE
1	k	485	GLU
1	k	486	GLU
1	l	16	VAL
1	l	22	ASN
1	l	24	ARG
1	l	32	GLN
1	l	39	ILE
1	l	42	LEU
1	l	45	LYS
1	l	51	SER
1	l	52	THR
1	l	53	ASP
1	l	55	GLN
1	l	71	SER
1	l	72	LYS
1	l	74	MET
1	l	78	PHE
1	l	86	LEU
1	l	99	ASP
1	l	101	ASP
1	l	105	LYS
1	l	106	VAL
1	l	107	ASP
1	l	110	LEU
1	l	114	GLU
1	l	117	ILE
1	l	126	TYR
1	l	128	VAL
1	l	129	THR
1	l	130	LEU
1	l	134	LEU
1	l	135	LYS
1	l	136	GLN
1	l	142	ASN
1	l	143	VAL
1	l	144	LEU
1	l	147	LEU
1	l	166	TYR
1	l	168	VAL
1	l	170	ARG
1	l	175	ASN

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Mol	Chain	Res	Type
1	l	241	ASP
1	l	243	THR
1	l	246	LYS
1	l	247	GLU
1	l	250	PRO
1	l	251	TYR
1	l	252	ILE
1	l	256	MET
1	l	258	ARG
1	l	259	LEU
1	l	264	TYR
1	l	266	ARG
1	l	268	TYR
1	l	282	LEU
1	l	283	GLN
1	l	286	ILE
1	l	291	MET
1	l	292	ILE
1	l	309	ARG
1	l	312	THR
1	l	315	GLN
1	l	325	GLU
1	l	326	ASP
1	l	328	SER
1	l	335	GLN
1	l	337	ASP
1	l	338	PHE
1	l	339	THR
1	l	342	LYS
1	l	344	VAL
1	l	348	ILE
1	l	352	LEU
1	l	370	THR
1	l	372	GLU
1	l	374	ILE
1	l	376	TYR
1	l	379	SER
1	l	388	VAL
1	l	391	ILE
1	l	393	SER
1	l	396	LEU
1	l	398	LEU

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Mol	Chain	Res	Type
1	l	400	LEU
1	l	401	VAL
1	l	402	ARG
1	l	404	LEU
1	l	405	LEU
1	l	406	LYS
1	l	409	GLN
1	l	411	THR
1	l	412	GLN
1	l	417	LEU
1	l	419	LYS
1	l	428	THR
1	l	435	ARG
1	l	439	LEU
1	l	442	LEU
1	l	446	VAL
1	l	447	THR
1	l	452	LEU
1	l	456	ARG
1	l	457	ASP
1	l	461	ILE
1	l	466	ILE
1	l	474	ILE
1	l	485	GLU
1	l	486	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (129) such sidechains are listed below:

Mol	Chain	Res	Type
1	a	68	ASN
1	a	136	GLN
1	a	142	ASN
1	a	156	ASN
1	a	169	GLN
1	a	178	GLN
1	a	283	GLN
1	a	315	GLN
1	a	331	GLN
1	a	335	GLN
1	a	407	GLN
1	b	68	ASN
1	b	136	GLN

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Mol	Chain	Res	Type
1	b	142	ASN
1	b	156	ASN
1	b	169	GLN
1	b	178	GLN
1	b	283	GLN
1	b	315	GLN
1	b	331	GLN
1	b	407	GLN
1	c	68	ASN
1	c	136	GLN
1	c	142	ASN
1	c	156	ASN
1	c	169	GLN
1	c	283	GLN
1	c	315	GLN
1	c	331	GLN
1	c	335	GLN
1	c	407	GLN
1	d	68	ASN
1	d	136	GLN
1	d	142	ASN
1	d	156	ASN
1	d	169	GLN
1	d	283	GLN
1	d	315	GLN
1	d	331	GLN
1	d	335	GLN
1	d	407	GLN
1	e	68	ASN
1	e	136	GLN
1	e	142	ASN
1	e	156	ASN
1	e	169	GLN
1	e	178	GLN
1	e	283	GLN
1	e	315	GLN
1	e	331	GLN
1	e	335	GLN
1	e	407	GLN
1	f	68	ASN
1	f	136	GLN
1	f	142	ASN

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Mol	Chain	Res	Type
1	f	156	ASN
1	f	169	GLN
1	f	178	GLN
1	f	283	GLN
1	f	315	GLN
1	f	331	GLN
1	f	335	GLN
1	f	407	GLN
1	g	68	ASN
1	g	136	GLN
1	g	142	ASN
1	g	156	ASN
1	g	169	GLN
1	g	178	GLN
1	g	283	GLN
1	g	315	GLN
1	g	331	GLN
1	g	335	GLN
1	g	407	GLN
1	h	68	ASN
1	h	136	GLN
1	h	142	ASN
1	h	156	ASN
1	h	169	GLN
1	h	178	GLN
1	h	283	GLN
1	h	315	GLN
1	h	331	GLN
1	h	335	GLN
1	h	407	GLN
1	i	68	ASN
1	i	136	GLN
1	i	142	ASN
1	i	156	ASN
1	i	169	GLN
1	i	178	GLN
1	i	283	GLN
1	i	315	GLN
1	i	331	GLN
1	i	335	GLN
1	i	407	GLN
1	j	68	ASN

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Mol	Chain	Res	Type
1	j	136	GLN
1	j	142	ASN
1	j	156	ASN
1	j	169	GLN
1	j	178	GLN
1	j	283	GLN
1	j	315	GLN
1	j	331	GLN
1	j	335	GLN
1	j	407	GLN
1	k	68	ASN
1	k	136	GLN
1	k	142	ASN
1	k	156	ASN
1	k	169	GLN
1	k	178	GLN
1	k	283	GLN
1	k	315	GLN
1	k	331	GLN
1	k	335	GLN
1	k	407	GLN
1	l	68	ASN
1	l	136	GLN
1	l	142	ASN
1	l	156	ASN
1	l	169	GLN
1	l	178	GLN
1	l	283	GLN
1	l	315	GLN
1	l	331	GLN
1	l	335	GLN
1	l	407	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

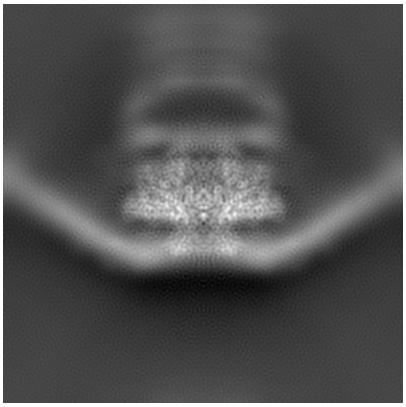
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-30138. These allow visual inspection of the internal detail of the map and identification of artifacts.

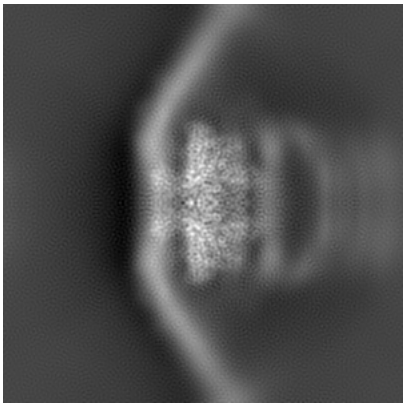
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

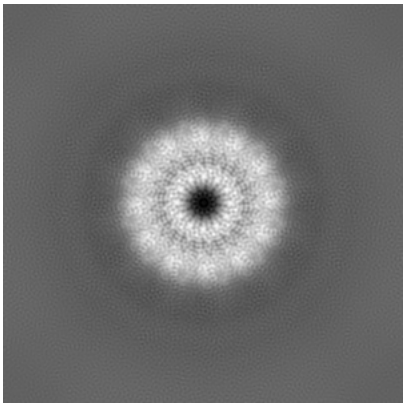
6.1.1 Primary map



X



Y

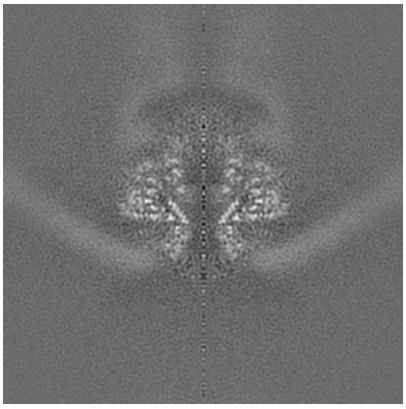


Z

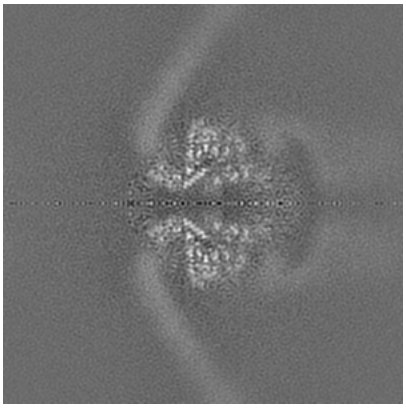
The images above show the map projected in three orthogonal directions.

6.2 Central slices

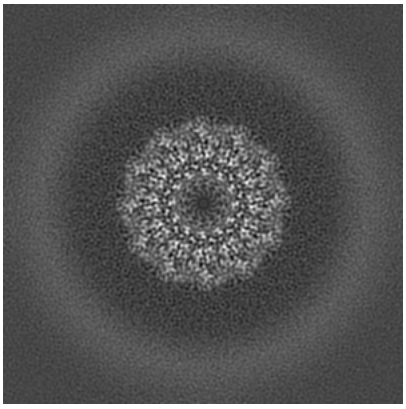
6.2.1 Primary map



X Index: 160



Y Index: 160

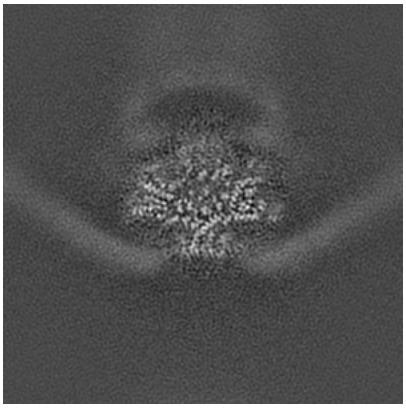


Z Index: 160

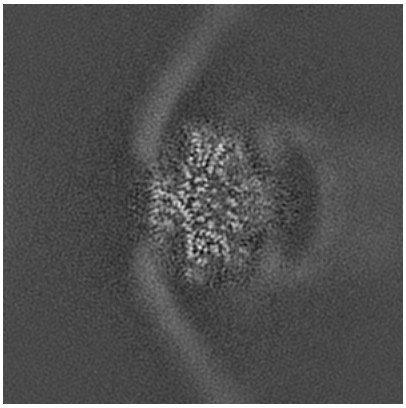
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

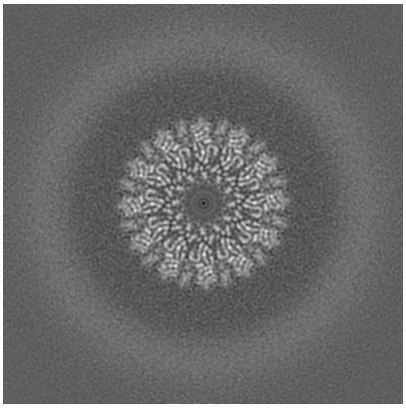
6.3.1 Primary map



X Index: 139



Y Index: 139

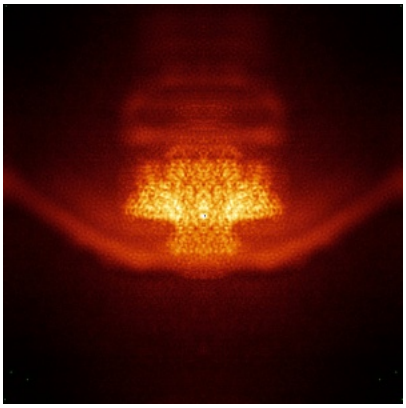


Z Index: 157

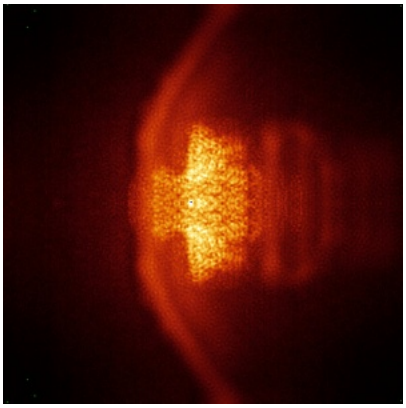
The images above show the largest variance slices of the map in three orthogonal directions.

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

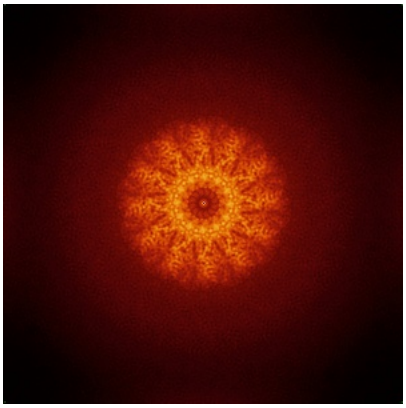
6.4.1 Primary map



X



Y

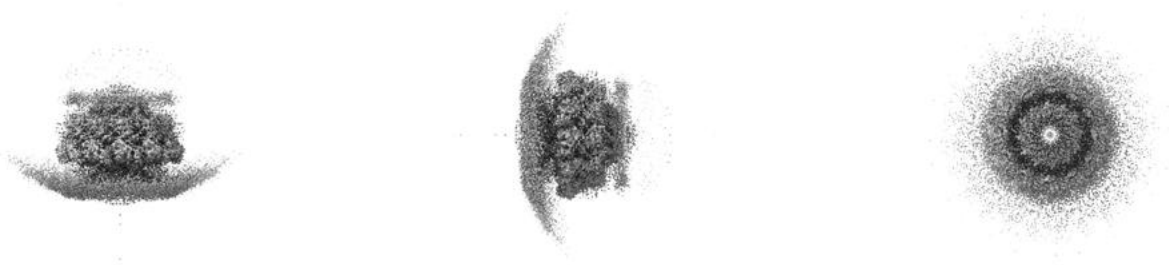


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 7.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

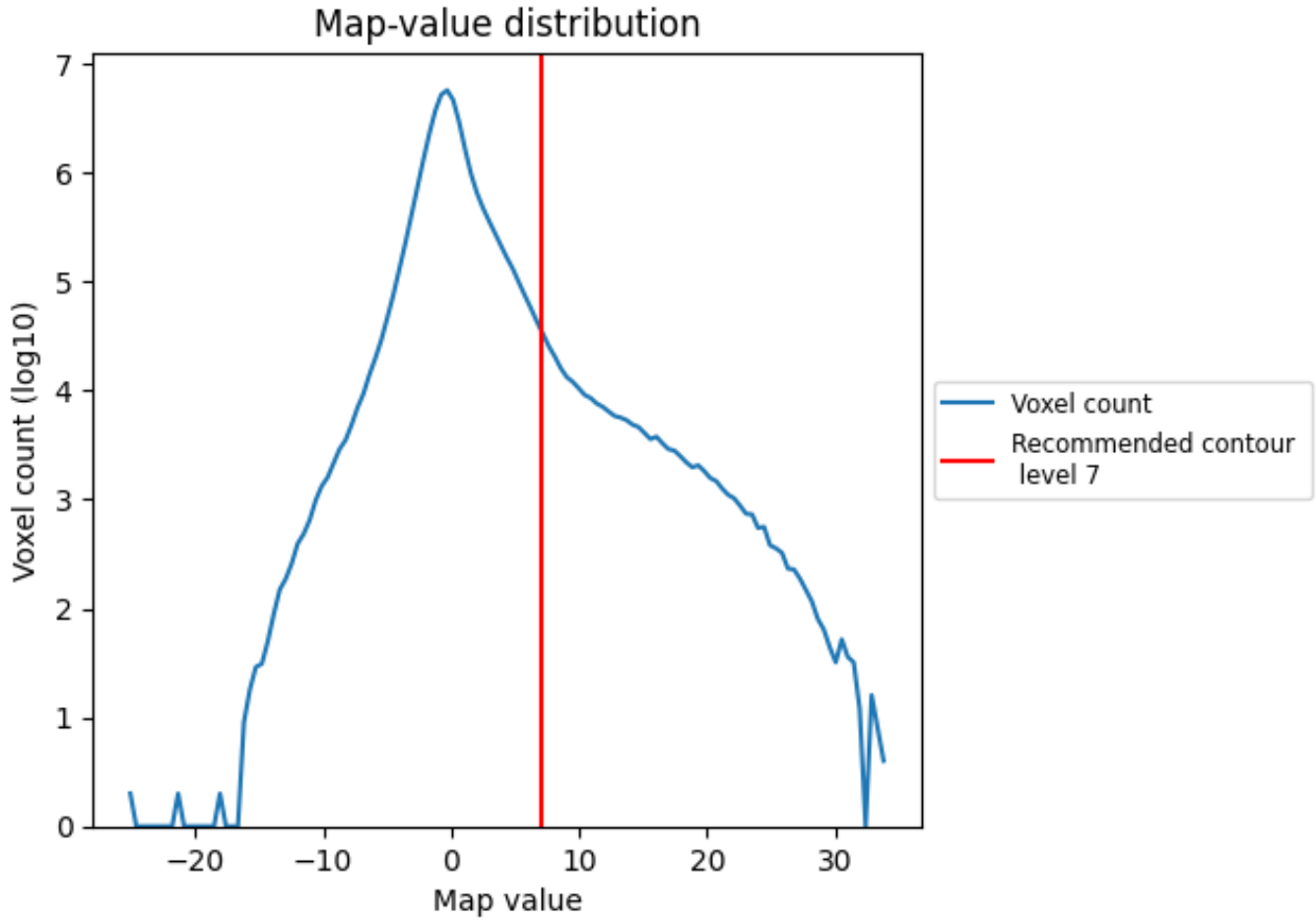
6.6 Mask visualisation (i)

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

7 Map analysis

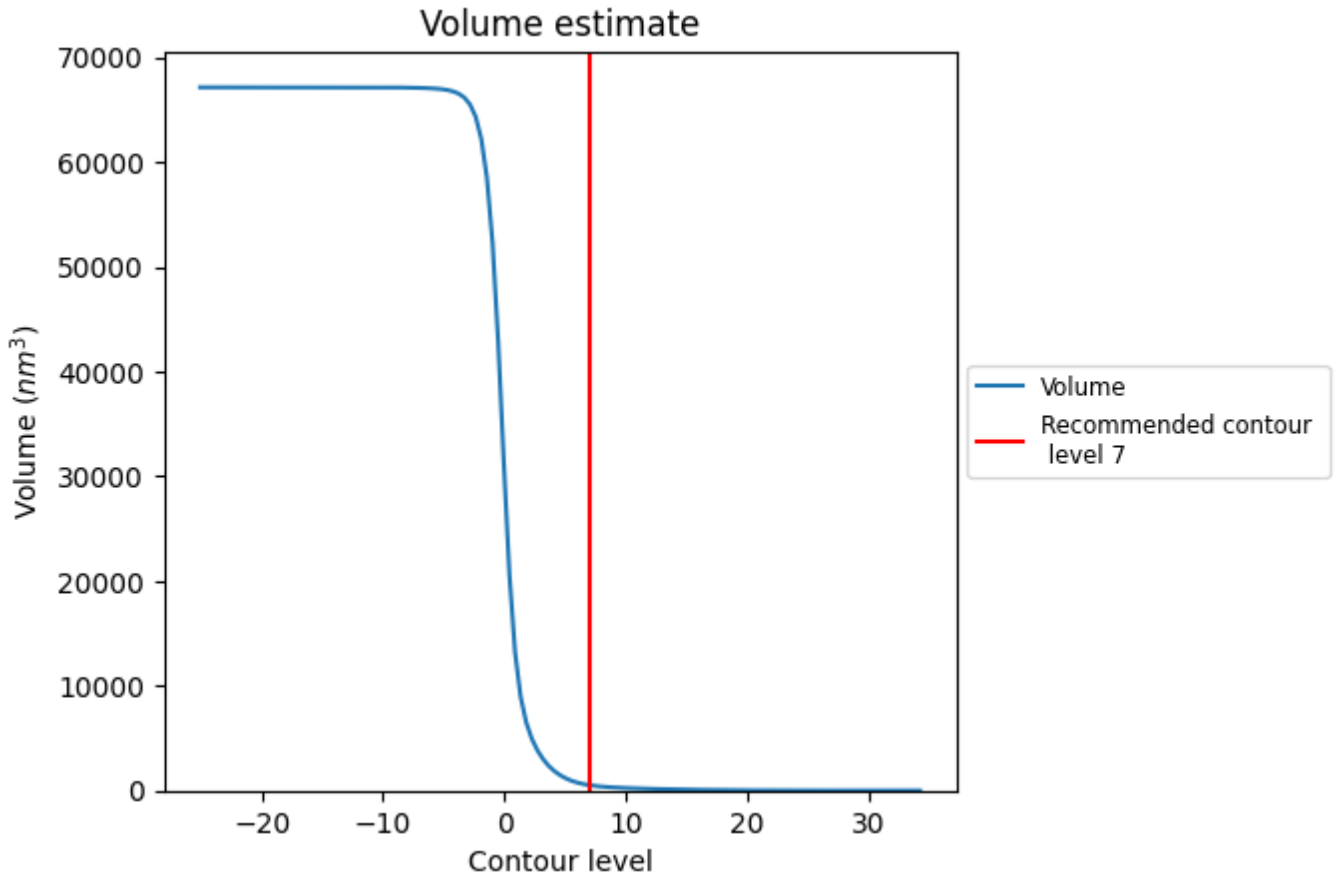
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

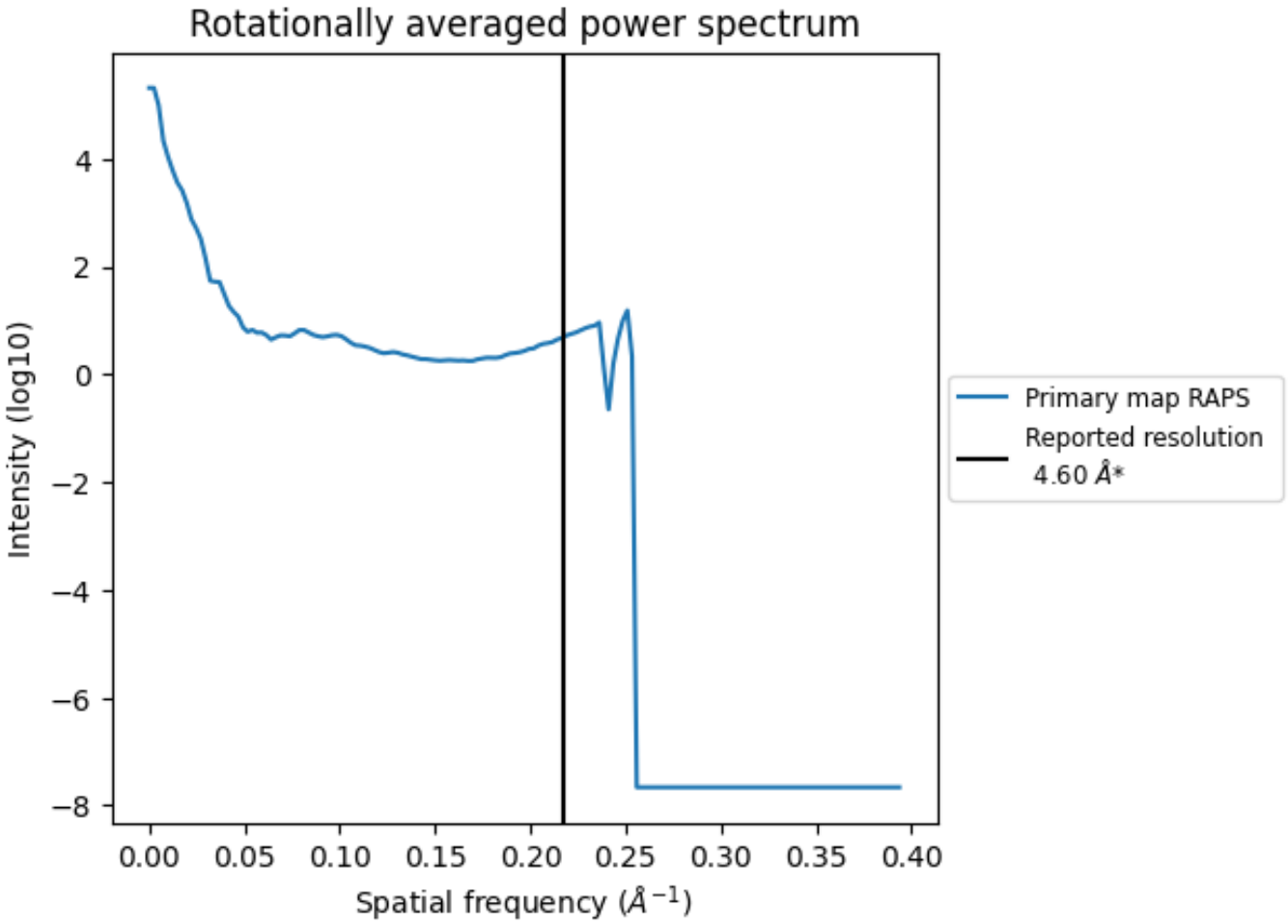
7.2 Volume estimate



The volume at the recommended contour level is 518 nm^3; this corresponds to an approximate mass of 468 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.217 Å^{-1}

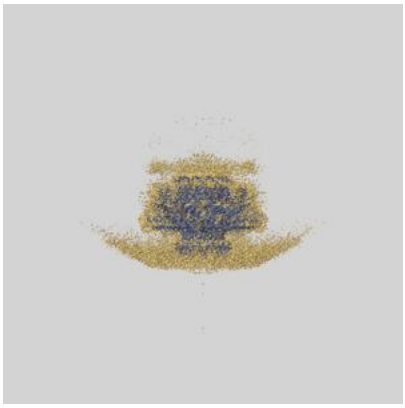
8 Fourier-Shell correlation

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

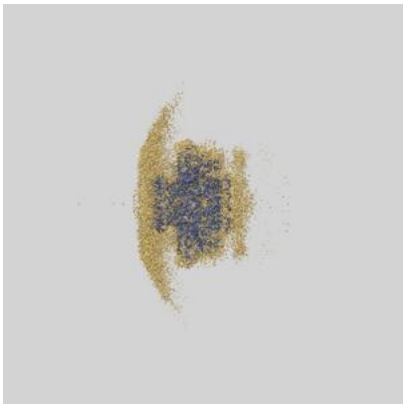
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-30138 and PDB model 7BP0. Per-residue inclusion information can be found in section 3 on page 5.

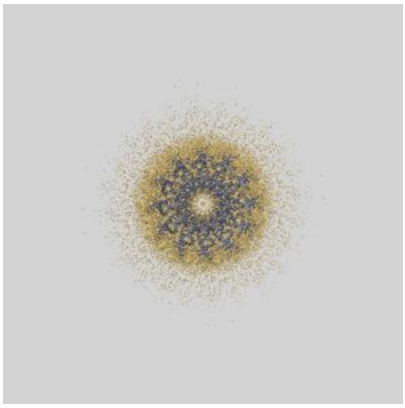
9.1 Map-model overlay



X



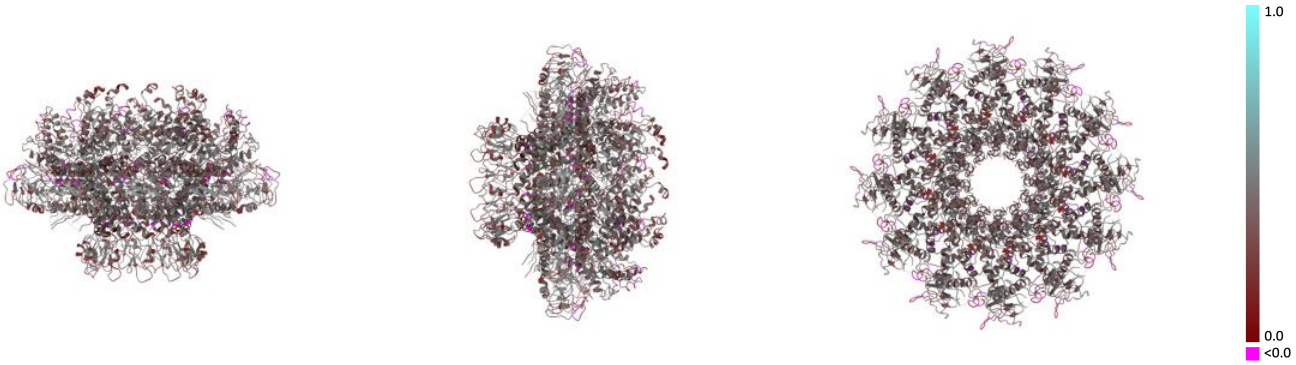
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 7.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model (i)



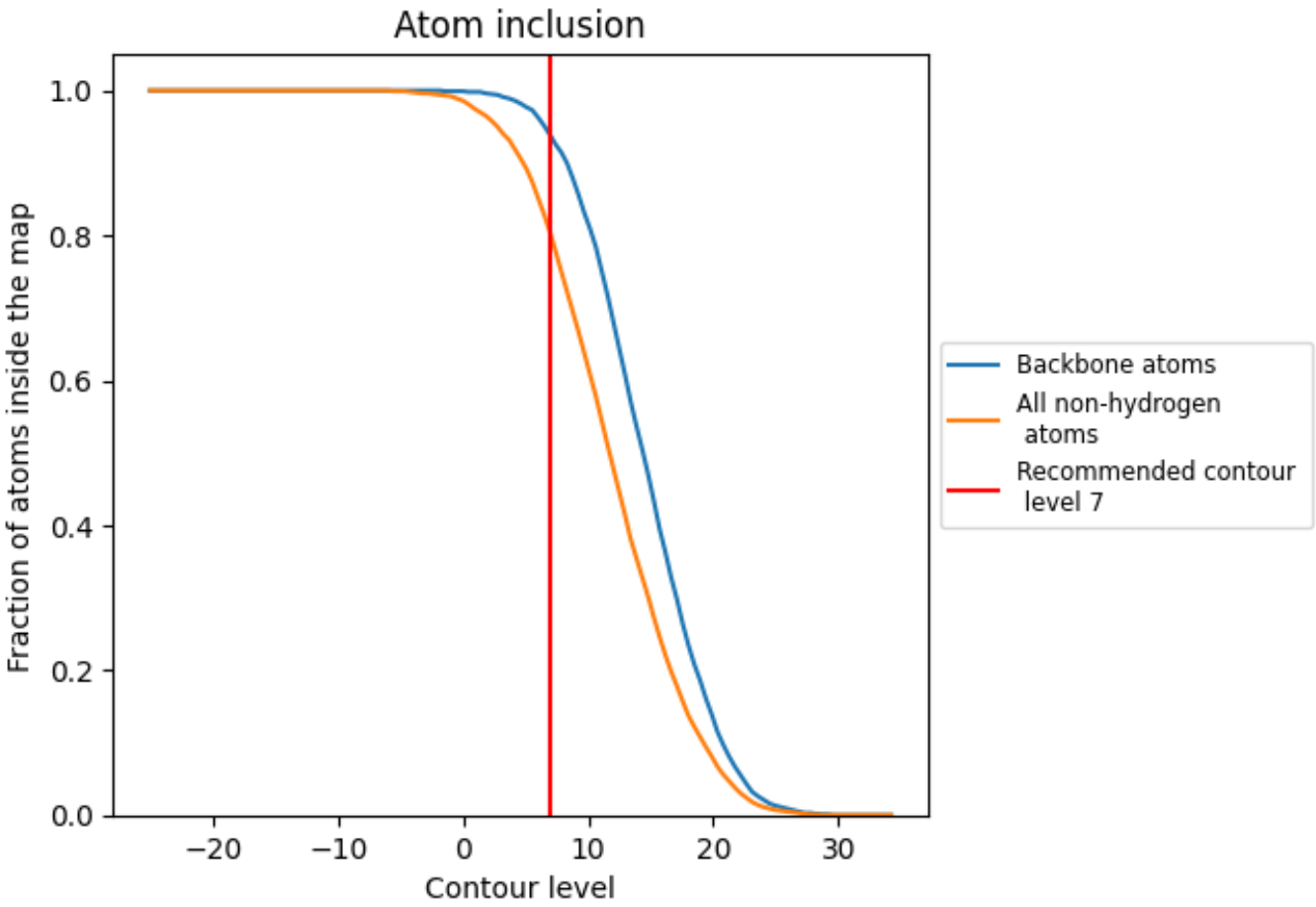
X Y Z

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

9.3 Atom inclusion mapped to coordinate model (i)

This section was not generated.

9.4 Atom inclusion (i)



At the recommended contour level, 94% of all backbone atoms, 80% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (7) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8010	0.3790
a	0.8010	0.3790
b	0.8020	0.3820
c	0.8000	0.3780
d	0.8020	0.3780
e	0.8010	0.3800
f	0.8000	0.3770
g	0.7990	0.3770
h	0.8000	0.3810
i	0.7990	0.3770
j	0.7990	0.3780
k	0.8020	0.3810
l	0.8000	0.3780