



Full wwPDB EM Validation Report ⓘ

Mar 10, 2026 – 06:50 PM UTC

PDB ID : 7SZ6 / pdb_00007sz6
EMDB ID : EMD-25562
Title : Kinetically trapped Pseudomonas-phage PaP3 portal protein - delta barrel mutant class-3
Authors : Hou, C.-F.D.; Swanson, N.A.; Li, F.; Yang, R.; Lokareddy, R.K.; Cingolani, G.
Deposited on : 2021-11-25
Resolution : 6.24 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

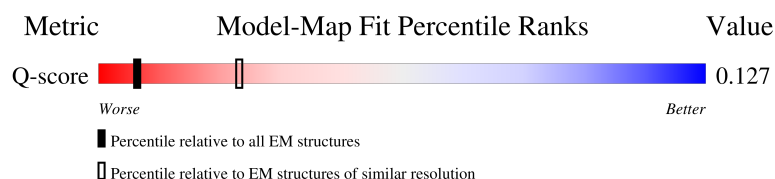
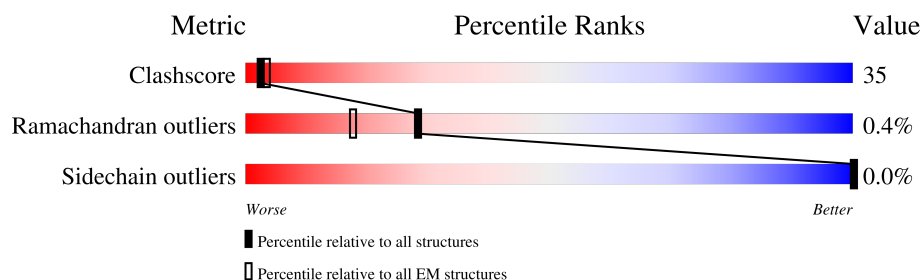
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 6.24 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	217187	24013	-
Ramachandran outliers	211220	23611	-
Sidechain outliers	210688	23127	-
Q-score	-	25397	504 (5.75 - 6.74)

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 $\leq 5\%$. 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	705	
1	b	705	
1	c	705	
1	d	705	

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Mol	Chain	Length	Quality of chain
1	e	705	
1	f	705	
1	g	705	
1	h	705	
1	i	705	
1	j	705	
1	k	705	

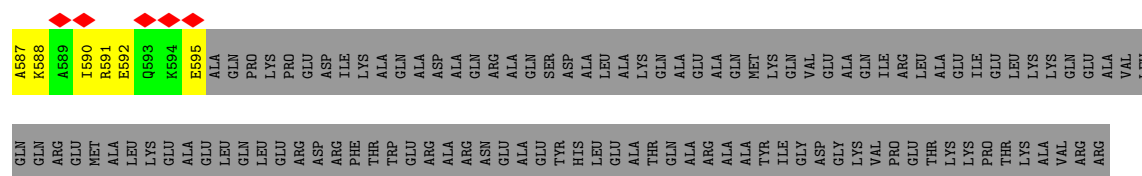
2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 43229 atoms, of which 0 are hydrogens and 0 are deuteriums.

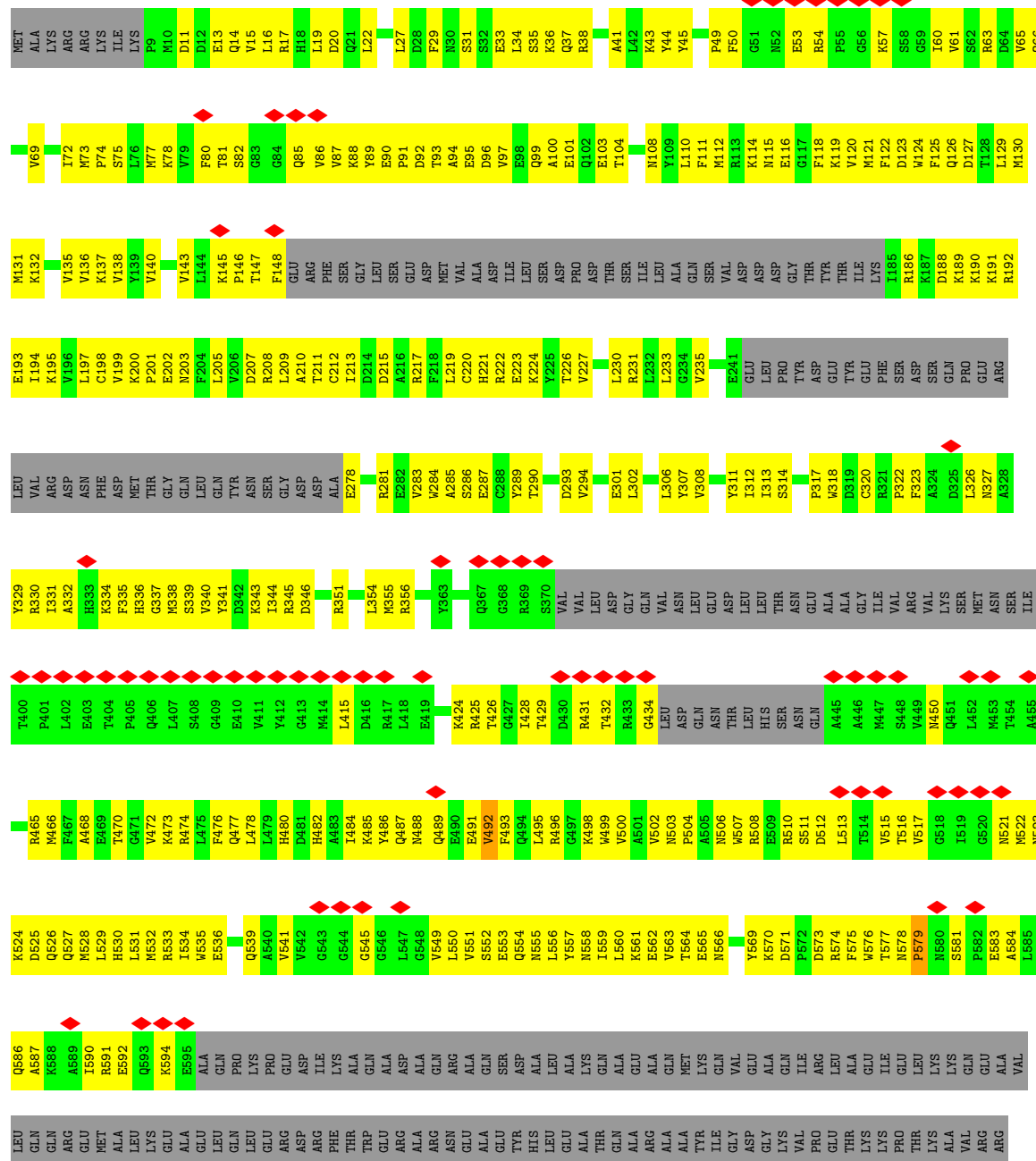
In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Portal protein.

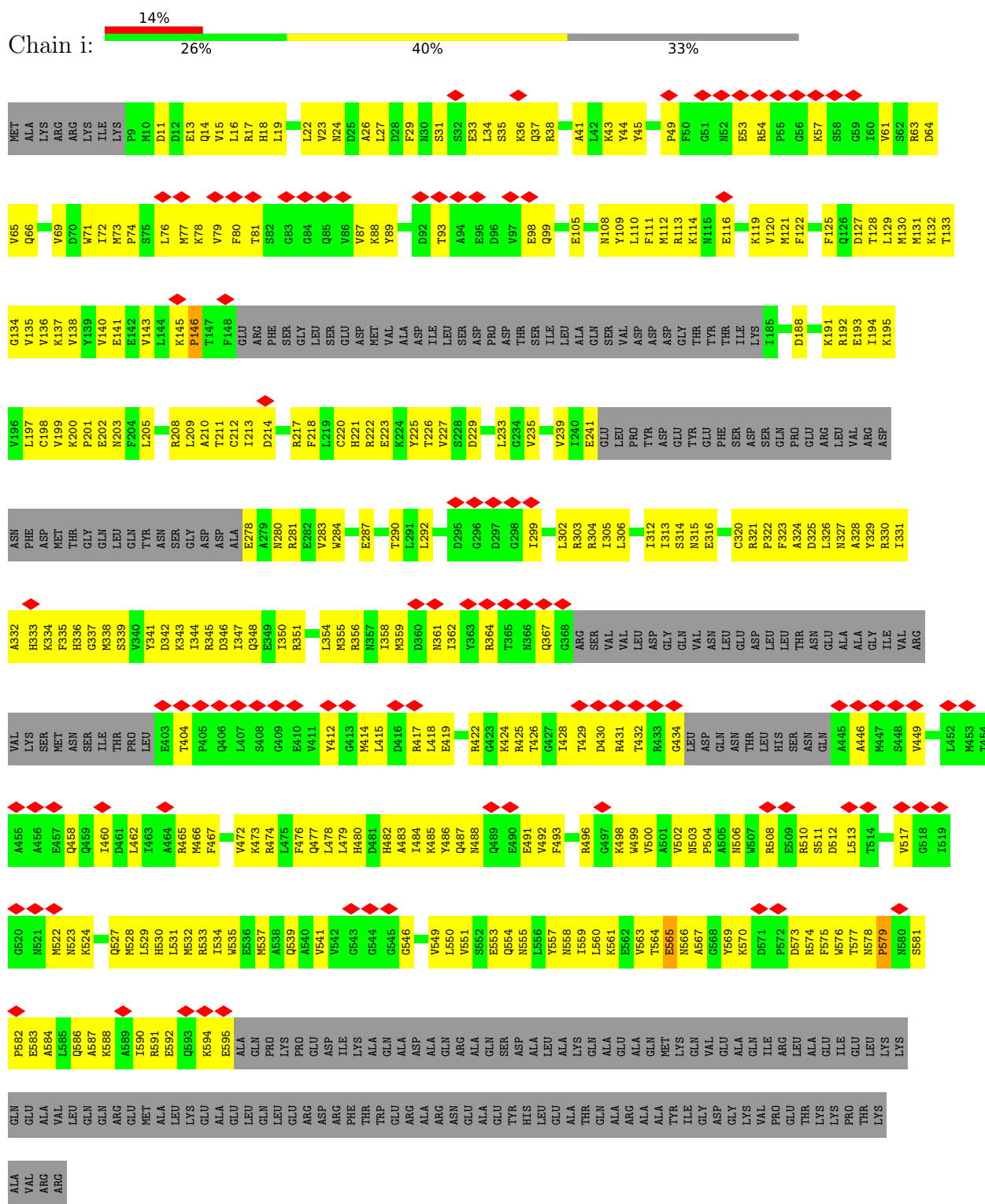
Mol	Chain	Residues	Atoms					AltConf	Trace
1	k	483	Total	C	N	O	S	0	0
			3911	2460	683	745	23		
1	j	476	Total	C	N	O	S	0	0
			3859	2427	675	734	23		
1	i	471	Total	C	N	O	S	0	0
			3786	2378	661	724	23		
1	a	505	Total	C	N	O	S	0	0
			4074	2560	712	778	24		
1	b	499	Total	C	N	O	S	0	0
			4020	2527	701	768	24		
1	c	505	Total	C	N	O	S	0	0
			4074	2560	712	778	24		
1	d	505	Total	C	N	O	S	0	0
			4074	2560	712	778	24		
1	e	505	Total	C	N	O	S	0	0
			4074	2560	712	778	24		
1	f	481	Total	C	N	O	S	0	0
			3895	2450	681	741	23		
1	h	468	Total	C	N	O	S	0	0
			3797	2389	664	721	23		
1	g	451	Total	C	N	O	S	0	0
			3665	2310	638	694	23		



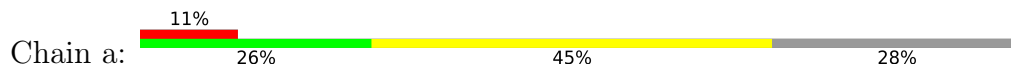
• Molecule 1: Portal protein

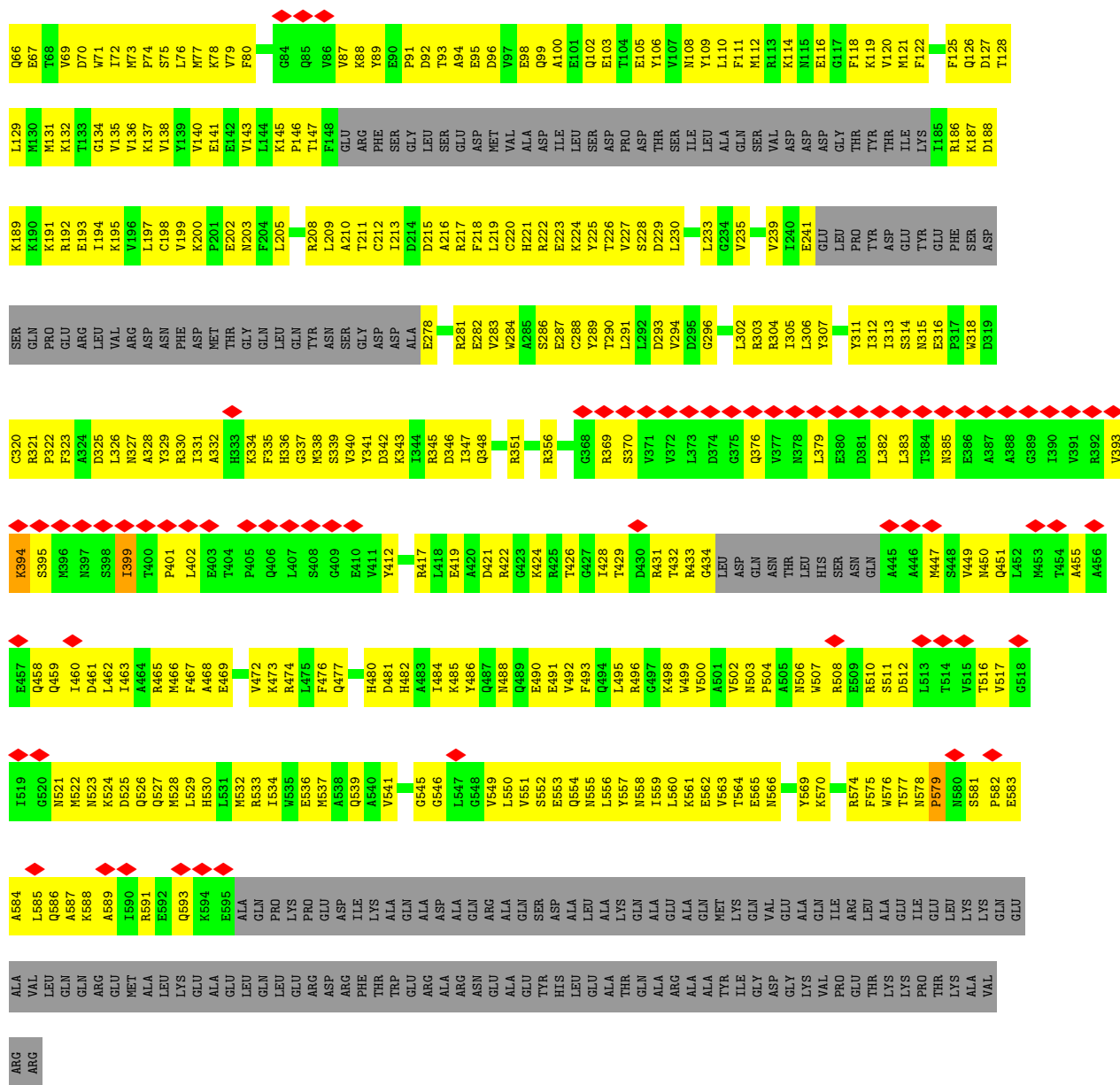


• Molecule 1: Portal protein

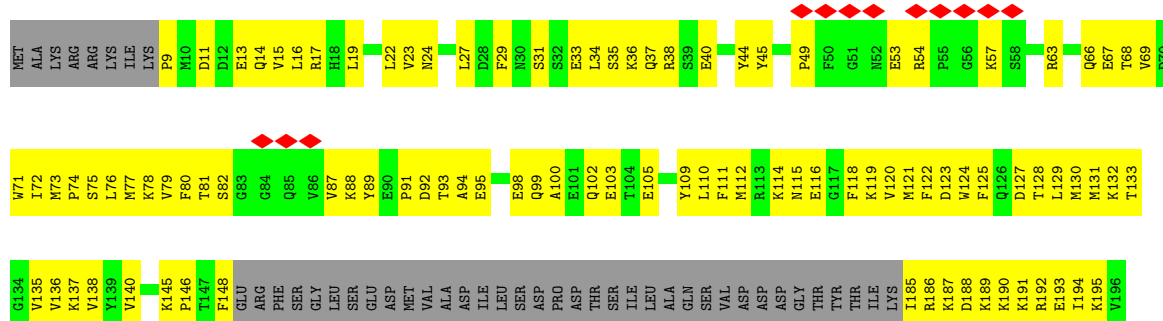


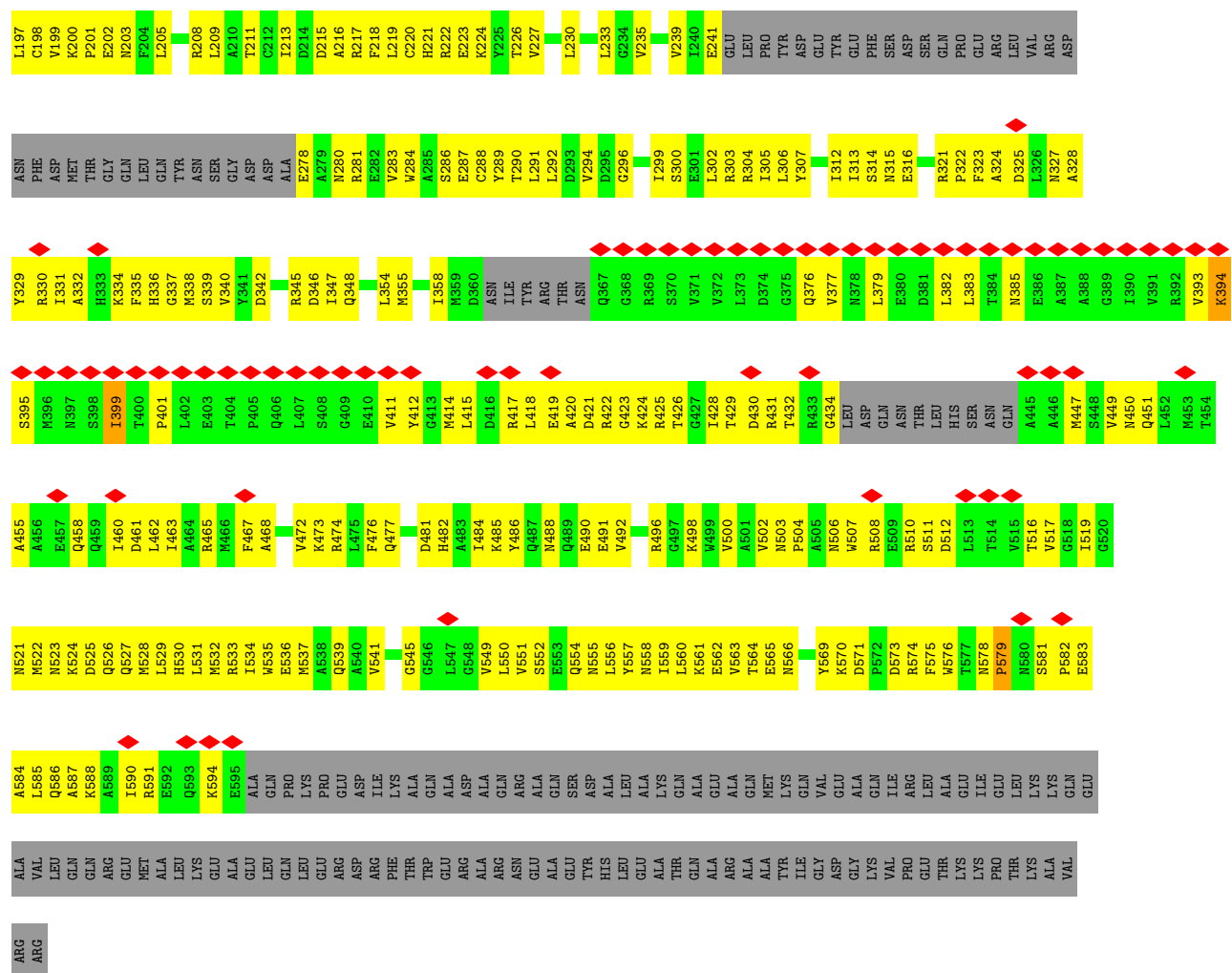
• Molecule 1: Portal protein



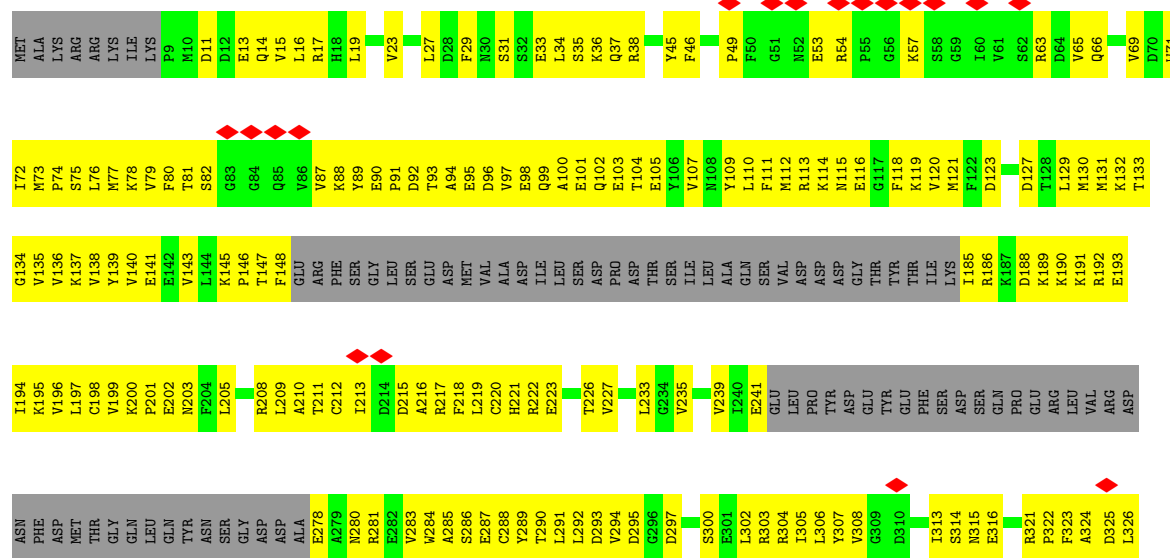


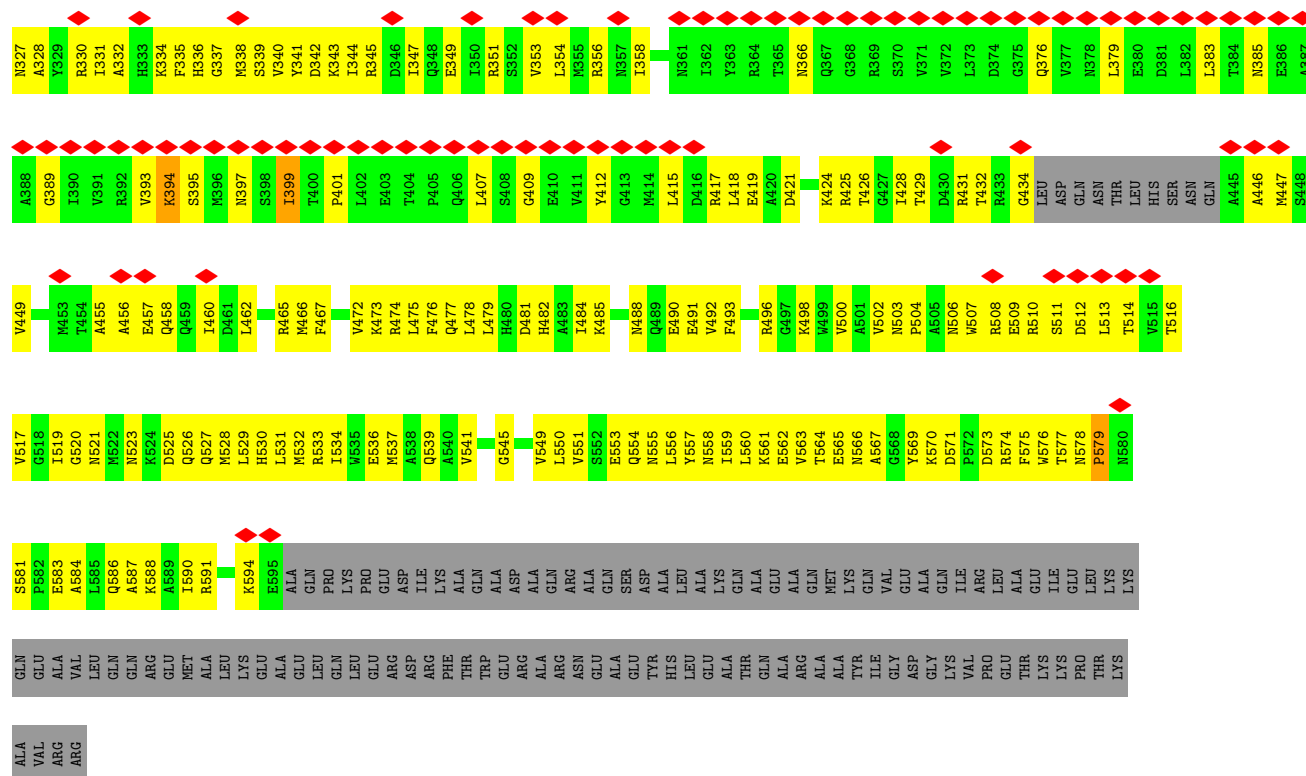
• Molecule 1: Portal protein



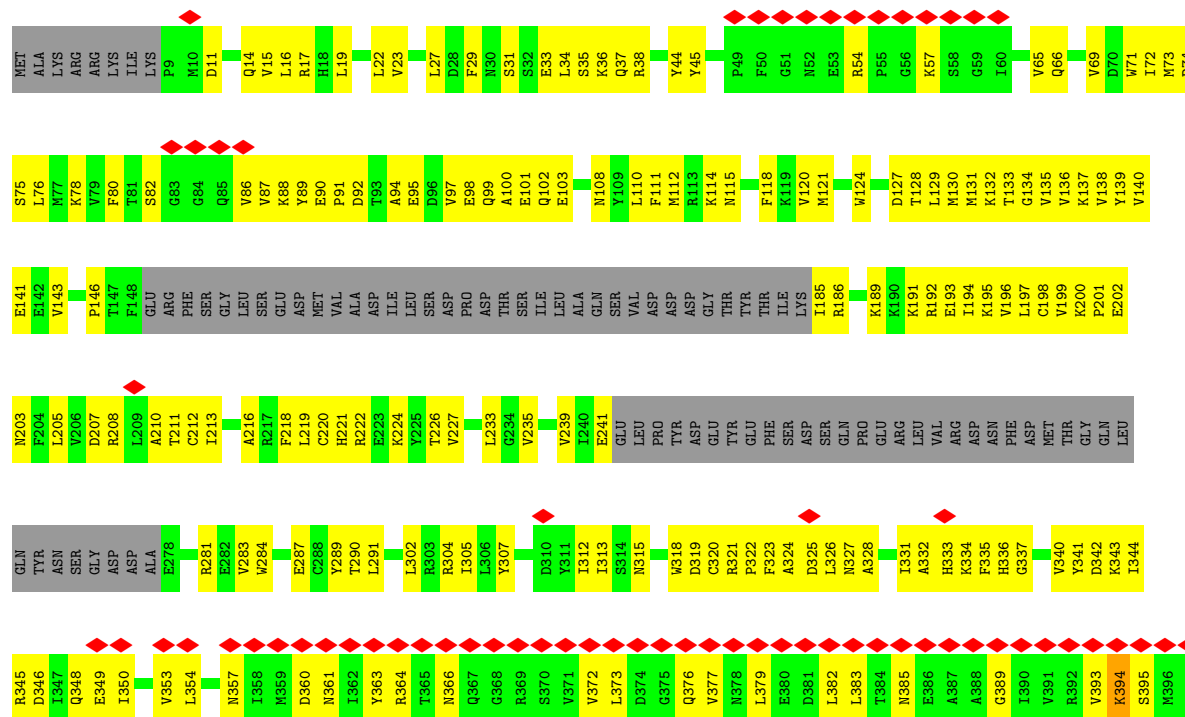


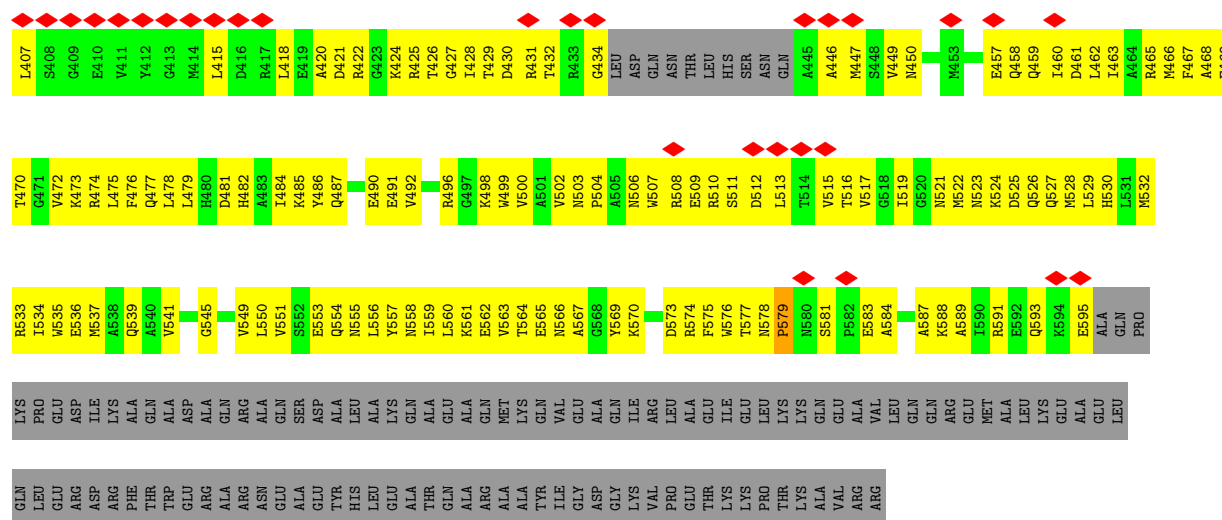
• Molecule 1: Portal protein



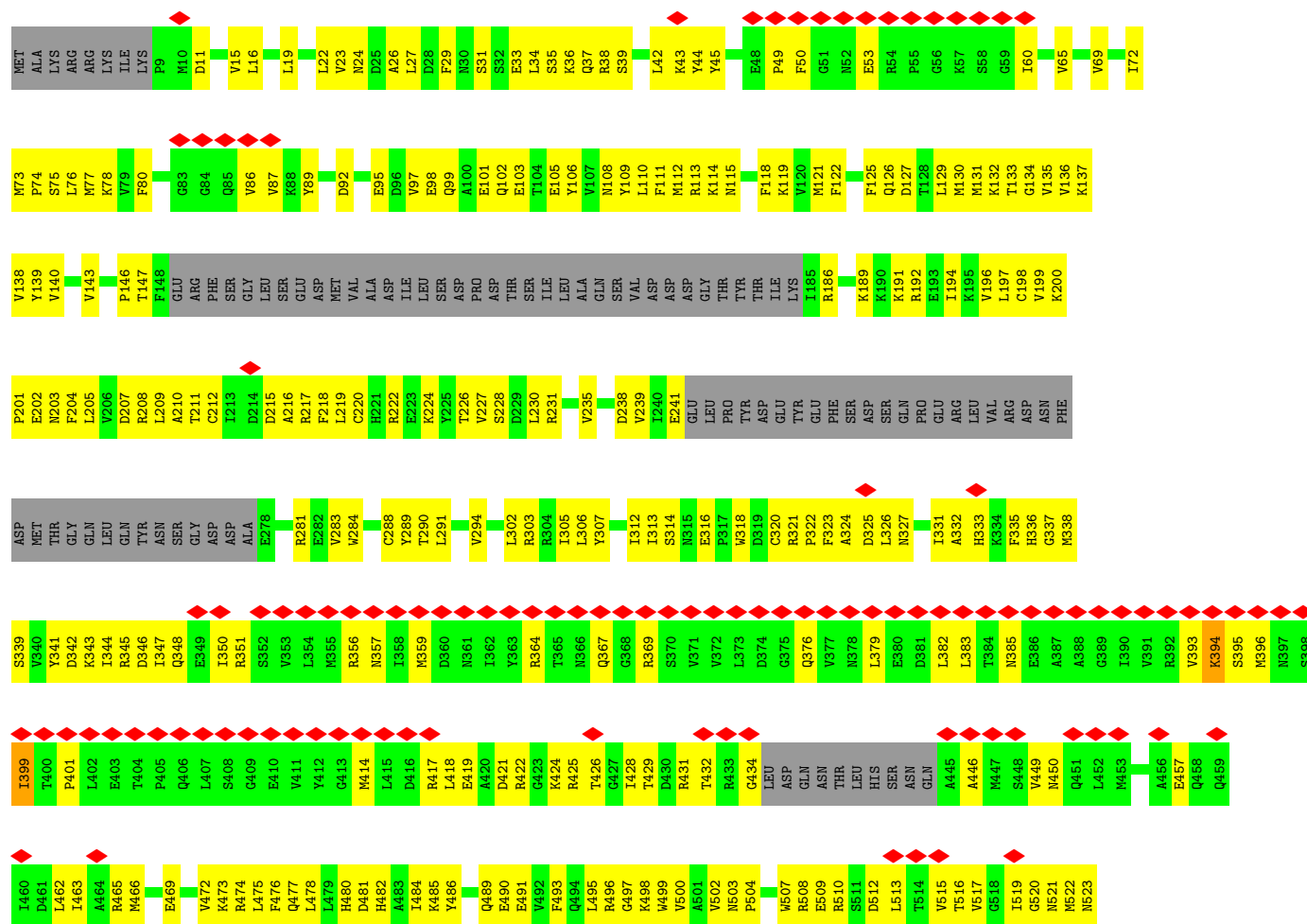


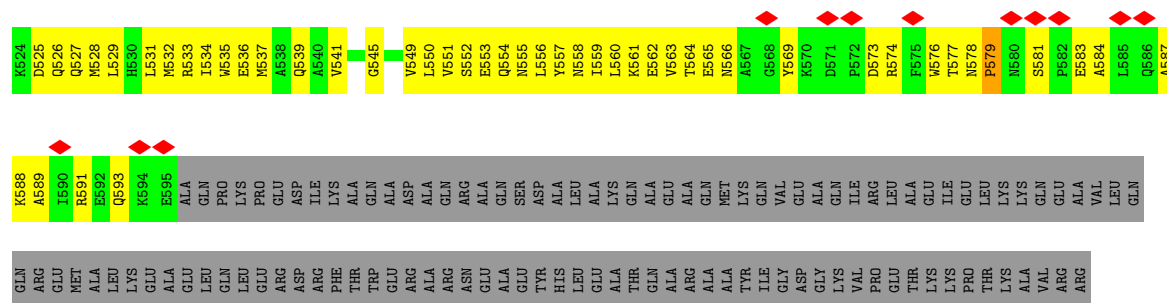
• Molecule 1: Portal protein



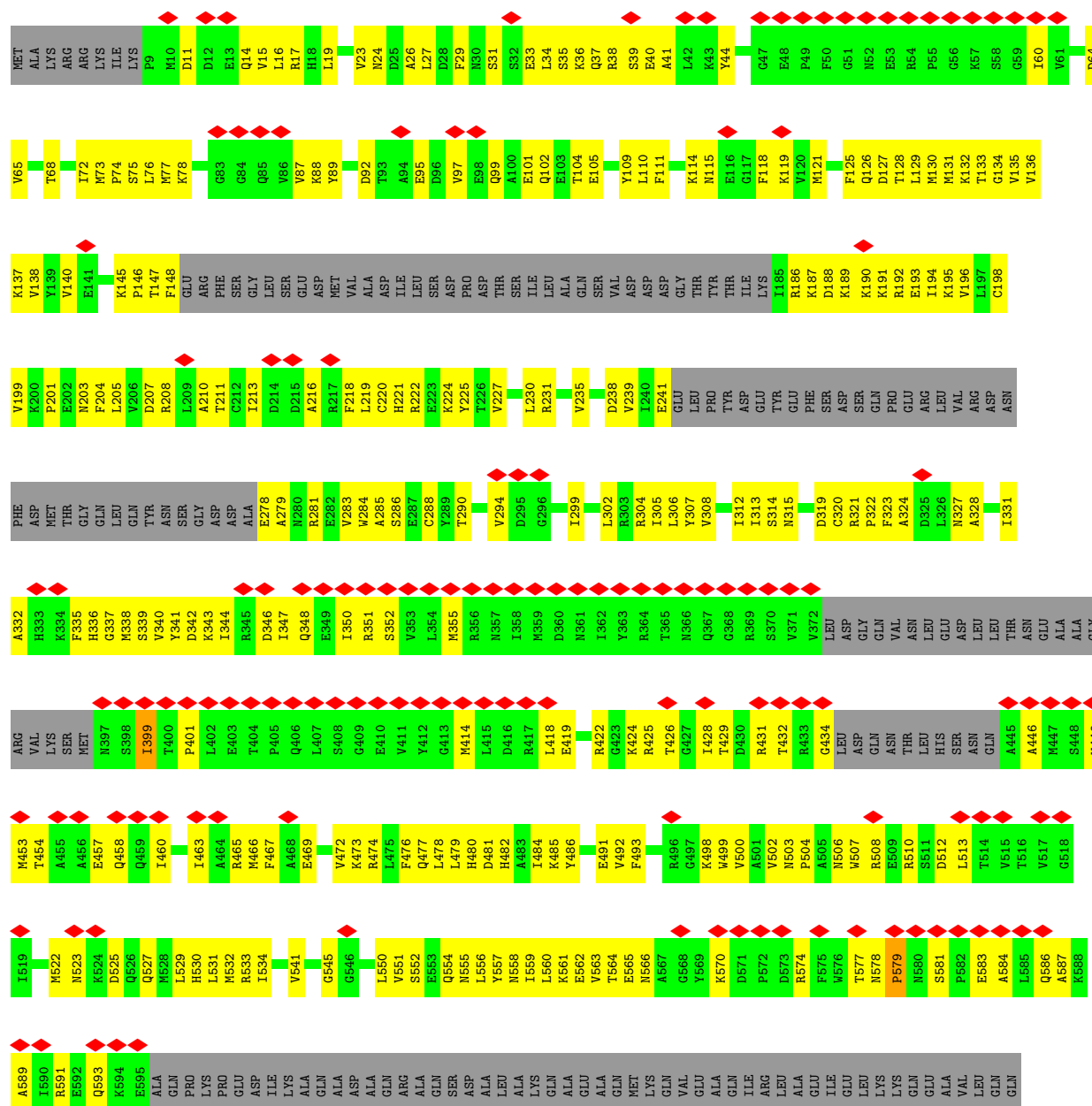


• Molecule 1: Portal protein





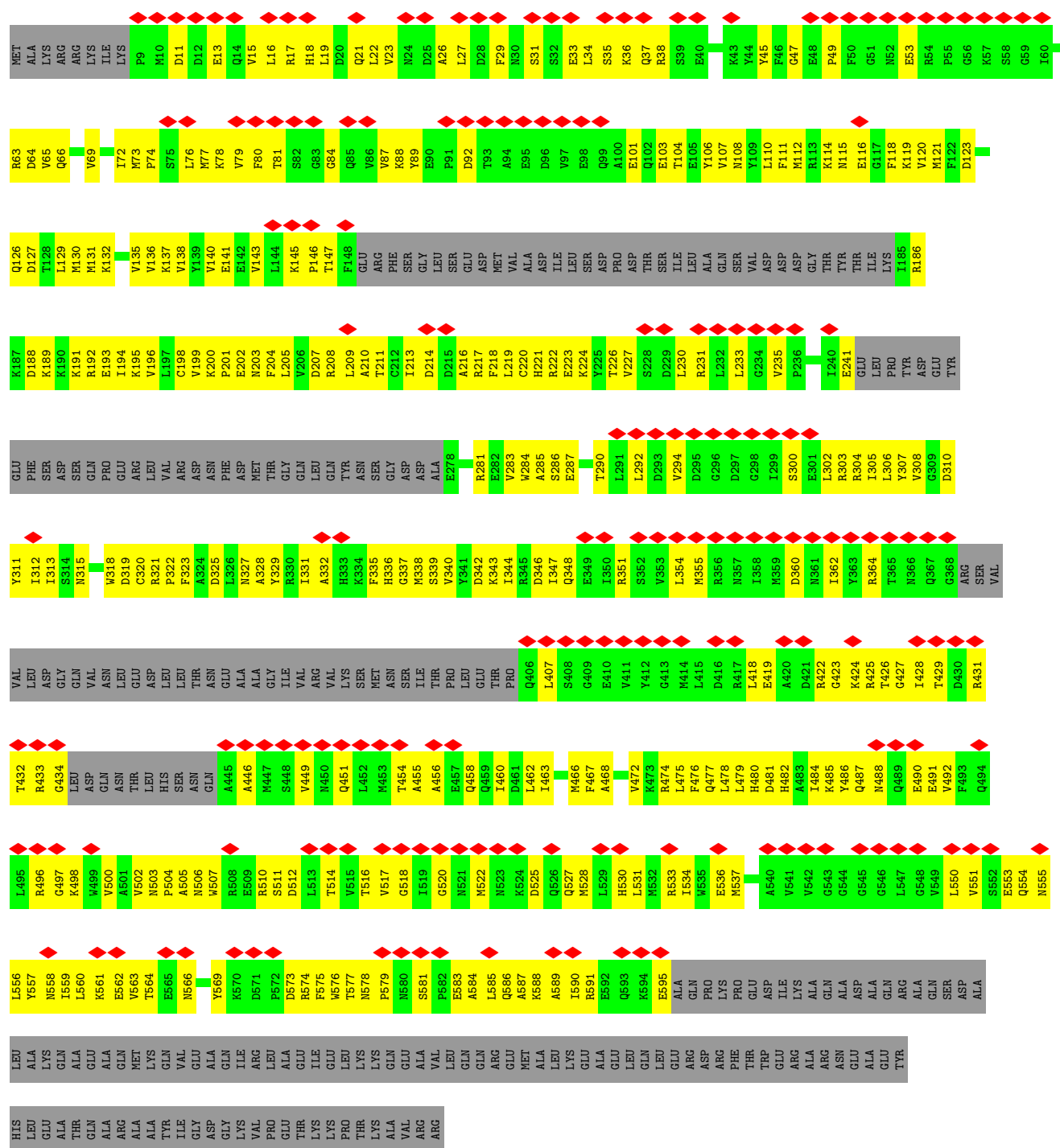
Molecule 1: Portal protein



ARG GLU MET LYS LEU LYS GLU ALA GLU LEU GLN LEU LEU ARG ASP ARG PHE THR TRP GLU ARG ALA ARG ARG ASN Q21 Q22 Q23 ALA ALA GLN THR F29 N30 N31 N32 N33 N34 N35 N36 N37 N38 N39 N40 N41 N42 N43 N44 N45 N46 N47 N48 N49 N50 N51 N52 N53 N54 N55 N56 N57 N58 N59 N60 N61 N62 N63 N64 N65 N66 N67 N68 N69 N70 N71 N72 N73 N74 N75 N76 N77 N78 N79 N80 N81 N82 N83 N84 N85 N86 N87 N88 N89 N90 N91 N92 N93 N94 N95 N96 N97 N98 N99 N100 N101 N102 N103 N104 N105 N106 N107 N108 N109 N110 N111 N112 N113 N114 N115 N116 N117 N118 N119 N120 N121 N122 N123 N124 N125 N126 N127 N128 N129 N130 N131 N132 N133 N134 N135 N136 N137 N138 N139 N140 N141 N142 N143 N144 N145 N146 N147 N148 N149 N150 N151 N152 N153 N154 N155 N156 N157 N158 N159 N160 N161 N162 N163 N164 N165 N166 N167 N168 N169 N170 N171 N172 N173 N174 N175 N176 N177 N178 N179 N180 N181 N182 N183 N184 N185 N186 N187 N188 N189 N190 N191 N192 N193 N194 N195 N196 N197 N198 N199 N200 N201 N202 N203 N204 N205 N206 N207 N208 N209 N210 N211 N212 N213 N214 N215 N216 N217 N218 N219 N220 N221 N222 N223 N224 N225 N226 N227 N228 N229 N230 N231 N232 N233 N234 N235 N236 N237 N238 N239 N240 N241 N242 N243 N244 N245 N246 N247 N248 N249 N250 N251 N252 N253 N254 N255 N256 N257 N258 N259 N260 N261 N262 N263 N264 N265 N266 N267 N268 N269 N270 N271 N272 N273 N274 N275 N276 N277 N278 N279 N280 N281 N282 N283 N284 N285 N286 N287 N288 N289 N290 N291 N292 N293 N294 N295 N296 N297 N298 N299 N300 N301 N302 N303 N304 N305 N306 N307 N308 N309 N310 N311 N312 N313 N314 N315 N316 N317 N318 N319 N320 N321 N322 N323 N324 N325 N326 N327 N328 N329 N330 N331 N332 N333 N334 N335 N336 N337 N338 N339 N340 N341 N342 N343 N344 N345 N346 N347 N348 N349 N350 N351 N352 N353 N354 N355 N356 N357 N358 N359 N360 N361 N362 N363 N364 N365 N366 N367 N368 N369 N370 N371 N372 N373 N374 N375 N376 N377 N378 N379 N380 N381 N382 N383 N384 N385 N386 N387 N388 N389 N390 N391 N392 N393 N394 N395 N396 N397 N398 N399 N400 N401 N402 N403 N404 N405 N406 N407 N408 N409 N410 N411 N412 N413 N414 N415 N416 N417 N418 N419 N420 N421 N422 N423 N424 N425 N426 N427 N428 N429 N430 N431 N432 N433 N434 N435 N436 N437 N438 N439 N440 N441 N442 N443 N444 N445 N446 N447 N448 N449 N450 N451 N452 N453 N454 N455 N456 N457 N458 N459 N460 N461 N462 N463 N464 N465 N466 N467 N468 N469 N470 N471 N472 N473 N474 N475 N476 N477 N478 N479 N480 N481 N482 N483 N484 N485 N486 N487 N488 N489 N490 N491 N492 N493 N494 N495 N496 N497 N498 N499 N500 N501 N502 N503 N504 N505 N506 N507 N508 N509 N510 N511 N512 N513 N514 N515 N516 N517 N518 N519 N520 N521 N522 N523 N524 N525 N526 N527 N528 N529 N530 N531 N532 N533 N534 N535 N536 N537 N538 N539 N540 N541 N542 N543 N544 N545 N546 N547 N548 N549 N550 N551 N552 N553 N554 N555 N556 N557 N558 N559 N560 N561 N562 N563 N564 N565 N566 N567 N568 N569 N570 N571 N572 N573 N574 N575 N576 N577 N578 N579 N580 N581 N582 N583 N584 N585 N586 N587 N588 N589 N590 N591 N592 N593 N594 N595 N596 N597 N598 N599 N600 N601 N602 N603 N604 N605 N606 N607 N608 N609 N610 N611 N612 N613 N614 N615 N616 N617 N618 N619 N620 N621 N622 N623 N624 N625 N626 N627 N628 N629 N630 N631 N632 N633 N634 N635 N636 N637 N638 N639 N640 N641 N642 N643 N644 N645 N646 N647 N648 N649 N650 N651 N652 N653 N654 N655 N656 N657 N658 N659 N660 N661 N662 N663 N664 N665 N666 N667 N668 N669 N670 N671 N672 N673 N674 N675 N676 N677 N678 N679 N680 N681 N682 N683 N684 N685 N686 N687 N688 N689 N690 N691 N692 N693 N694 N695 N696 N697 N698 N699 N700 N701 N702 N703 N704 N705 N706 N707 N708 N709 N710 N711 N712 N713 N714 N715 N716 N717 N718 N719 N720 N721 N722 N723 N724 N725 N726 N727 N728 N729 N730 N731 N732 N733 N734 N735 N736 N737 N738 N739 N740 N741 N742 N743 N744 N745 N746 N747 N748 N749 N750 N751 N752 N753 N754 N755 N756 N757 N758 N759 N760 N761 N762 N763 N764 N765 N766 N767 N768 N769 N770 N771 N772 N773 N774 N775 N776 N777 N778 N779 N780 N781 N782 N783 N784 N785 N786 N787 N788 N789 N790 N791 N792 N793 N794 N795 N796 N797 N798 N799 N800 N801 N802 N803 N804 N805 N806 N807 N808 N809 N810 N811 N812 N813 N814 N815 N816 N817 N818 N819 N820 N821 N822 N823 N824 N825 N826 N827 N828 N829 N830 N831 N832 N833 N834 N835 N836 N837 N838 N839 N840 N841 N842 N843 N844 N845 N846 N847 N848 N849 N850 N851 N852 N853 N854 N855 N856 N857 N858 N859 N860 N861 N862 N863 N864 N865 N866 N867 N868 N869 N870 N871 N872 N873 N874 N875 N876 N877 N878 N879 N880 N881 N882 N883 N884 N885 N886 N887 N888 N889 N890 N891 N892 N893 N894 N895 N896 N897 N898 N899 N900 N901 N902 N903 N904 N905 N906 N907 N908 N909 N910 N911 N912 N913 N914 N915 N916 N917 N918 N919 N920 N921 N922 N923 N924 N925 N926 N927 N928 N929 N930 N931 N932 N933 N934 N935 N936 N937 N938 N939 N940 N941 N942 N943 N944 N945 N946 N947 N948 N949 N950 N951 N952 N953 N954 N955 N956 N957 N958 N959 N960 N961 N962 N963 N964 N965 N966 N967 N968 N969 N970 N971 N972 N973 N974 N975 N976 N977 N978 N979 N980 N981 N982 N983 N984 N985 N986 N987 N988 N989 N990 N991 N992 N993 N994 N995 N996 N997 N998 N999 N1000

• Molecule 1: Portal protein

Chain h: 27% 27% 39% 34%



• Molecule 1: Portal protein



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	85000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS GLACIOS	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2200	Depositor
Magnification	150000	Depositor
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	0.076	Depositor
Minimum map value	-0.025	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.007	Depositor
Recommended contour level	0.02	Depositor
Map size (Å)	262.08002, 262.08002, 262.08002	wwPDB
Map dimensions	144, 144, 144	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.8200002, 1.8200002, 1.8200002	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	a	0.24	0/4143	0.51	0/5589
1	b	0.22	0/4087	0.50	0/5511
1	c	0.21	0/4143	0.50	0/5589
1	d	0.20	0/4143	0.46	0/5589
1	e	0.21	0/4143	0.49	0/5589
1	f	0.17	0/3963	0.44	0/5344
1	g	0.17	0/3730	0.44	0/5028
1	h	0.18	0/3863	0.44	0/5205
1	i	0.22	0/3851	0.50	2/5195 (0.0%)
1	j	0.22	0/3927	0.51	1/5294 (0.0%)
1	k	0.22	0/3979	0.49	0/5366
All	All	0.21	0/43972	0.48	3/59299 (0.0%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	j	492	VAL	N-CA-C	-7.25	105.46	111.91
1	i	146	PRO	N-CA-CB	6.82	110.41	103.25
1	i	565	GLU	CA-CB-CG	5.22	124.53	114.10

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	a	4074	0	4029	345	0
1	b	4020	0	3976	342	0
1	c	4074	0	4029	327	0
1	d	4074	0	4029	307	0
1	e	4074	0	4029	286	0
1	f	3895	0	3843	229	0
1	g	3665	0	3608	190	0
1	h	3797	0	3740	260	0
1	i	3786	0	3687	284	0
1	j	3859	0	3803	296	0
1	k	3911	0	3858	319	0
All	All	43229	0	42631	3039	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 35.

All (3039) 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:d:304:ARG:O	1:d:315:ASN:HA	1.51	1.09
1:c:304:ARG:O	1:c:315:ASN:HA	1.66	0.96
1:b:304:ARG:O	1:b:315:ASN:HA	1.66	0.95
1:a:496:ARG:HH21	1:b:94:ALA:H	1.09	0.95
1:d:222:ARG:HB3	1:d:284:TRP:HE1	1.33	0.94
1:i:34:LEU:HB3	1:i:38:ARG:HH21	1.31	0.93
1:a:304:ARG:O	1:a:315:ASN:HA	1.69	0.92
1:e:111:PHE:HA	1:e:115:ASN:HB2	1.49	0.92
1:k:304:ARG:O	1:k:315:ASN:HA	1.67	0.92
1:b:583:GLU:O	1:b:587:ALA:HB3	1.68	0.90
1:c:583:GLU:O	1:c:587:ALA:HB3	1.71	0.90
1:i:465:ARG:HH12	1:i:513:LEU:HA	1.36	0.90
1:c:551:VAL:HG23	1:c:555:ASN:HB3	1.55	0.89
1:d:34:LEU:HB3	1:d:38:ARG:HH21	1.37	0.89
1:d:111:PHE:HA	1:d:115:ASN:HB2	1.54	0.88
1:d:472:VAL:HG13	1:d:510:ARG:HB2	1.56	0.87
1:a:574:ARG:HE	1:a:576:TRP:HE1	1.22	0.87
1:g:31:SER:O	1:g:35:SER:HB2	1.75	0.86
1:h:351:ARG:HH22	1:h:419:GLU:HB2	1.40	0.86
1:j:424:LYS:HA	1:j:428:ILE:HA	1.56	0.86
1:b:111:PHE:HA	1:b:115:ASN:HB2	1.58	0.86
1:h:132:LYS:HG2	1:h:339:SER:HB2	1.57	0.86
1:h:534:ILE:HD12	1:h:559:ILE:HG23	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:583:GLU:O	1:d:587:ALA:HB3	1.76	0.85
1:i:222:ARG:HB3	1:i:284:TRP:HE1	1.42	0.85
1:j:473:LYS:HE3	1:j:474:ARG:HH21	1.41	0.85
1:a:118:PHE:HA	1:a:121:MET:HE2	1.56	0.85
1:c:34:LEU:HB3	1:c:38:ARG:HH21	1.41	0.84
1:k:94:ALA:H	1:j:496:ARG:HH21	1.25	0.84
1:e:473:LYS:HE3	1:e:474:ARG:HH21	1.42	0.84
1:e:78:LYS:NZ	1:f:457:GLU:OE1	2.10	0.84
1:e:465:ARG:HH12	1:e:513:LEU:HA	1.42	0.84
1:e:486:TYR:H	1:e:502:VAL:HG12	1.42	0.84
1:e:31:SER:O	1:e:35:SER:HB2	1.77	0.84
1:b:496:ARG:HH21	1:c:94:ALA:H	1.24	0.83
1:h:31:SER:O	1:h:35:SER:HB2	1.78	0.83
1:k:38:ARG:HH11	1:k:131:MET:HG2	1.42	0.83
1:g:203:ASN:HB3	1:g:222:ARG:HB2	1.61	0.83
1:i:304:ARG:O	1:i:315:ASN:HA	1.78	0.83
1:b:222:ARG:HB3	1:b:284:TRP:HE1	1.44	0.83
1:e:302:LEU:HD21	1:e:321:ARG:HH21	1.42	0.82
1:j:426:THR:O	1:j:458:GLN:NE2	2.12	0.82
1:b:13:GLU:HG3	1:b:17:ARG:HH12	1.43	0.82
1:a:34:LEU:HB3	1:a:38:ARG:HH21	1.44	0.81
1:a:222:ARG:HB3	1:a:284:TRP:HE1	1.45	0.81
1:e:561:LYS:NZ	1:e:574:ARG:O	2.11	0.81
1:j:535:TRP:O	1:j:539:GLN:NE2	2.14	0.81
1:c:496:ARG:HH22	1:d:92:ASP:HB2	1.46	0.81
1:d:31:SER:O	1:d:35:SER:HB2	1.81	0.81
1:e:34:LEU:HB3	1:e:38:ARG:HH21	1.44	0.80
1:i:586:GLN:HA	1:i:590:ILE:HB	1.64	0.80
1:k:552:SER:O	1:k:556:LEU:N	2.13	0.80
1:k:87:VAL:HG22	1:k:512:ASP:HB3	1.62	0.80
1:j:94:ALA:H	1:i:496:ARG:HH21	1.28	0.80
1:a:192:ARG:NH1	1:a:485:LYS:O	2.15	0.80
1:a:209:LEU:HB2	1:a:217:ARG:HH22	1.46	0.80
1:g:205:LEU:HB2	1:g:220:CYS:HB3	1.64	0.80
1:i:561:LYS:NZ	1:i:574:ARG:O	2.15	0.80
1:i:486:TYR:H	1:i:502:VAL:HG12	1.46	0.80
1:k:192:ARG:NH2	1:k:485:LYS:O	2.15	0.80
1:d:424:LYS:HA	1:d:428:ILE:HA	1.64	0.80
1:d:554:GLN:OE1	1:d:588:LYS:NZ	2.15	0.80
1:f:110:LEU:HA	1:f:114:LYS:HB2	1.64	0.80
1:i:38:ARG:NH1	1:i:131:MET:O	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:118:PHE:HA	1:d:121:MET:HE2	1.62	0.79
1:j:209:LEU:HB2	1:j:217:ARG:HH22	1.47	0.79
1:j:331:ILE:HG12	1:j:338:MET:HG3	1.63	0.79
1:b:574:ARG:HE	1:b:576:TRP:HE1	1.30	0.79
1:d:394:LYS:HG3	1:d:395:SER:H	1.47	0.79
1:j:462:LEU:HD11	1:i:74:PRO:HB3	1.65	0.79
1:a:583:GLU:O	1:a:587:ALA:HB3	1.82	0.79
1:i:331:ILE:HG12	1:i:338:MET:HG3	1.63	0.78
1:j:465:ARG:HH12	1:j:513:LEU:HA	1.47	0.78
1:i:473:LYS:HE3	1:i:474:ARG:HH21	1.48	0.78
1:f:465:ARG:HH12	1:f:513:LEU:HA	1.46	0.78
1:a:13:GLU:HG3	1:a:17:ARG:HH12	1.46	0.78
1:d:553:GLU:OE2	1:d:578:ASN:ND2	2.16	0.78
1:e:472:VAL:HG13	1:e:510:ARG:HB2	1.66	0.78
1:e:394:LYS:HG3	1:e:395:SER:H	1.48	0.78
1:i:424:LYS:HA	1:i:428:ILE:HA	1.65	0.78
1:c:573:ASP:OD2	1:c:574:ARG:NH1	2.16	0.78
1:a:75:SER:HA	1:a:78:LYS:HE2	1.66	0.78
1:c:587:ALA:HB1	1:d:549:VAL:HG23	1.65	0.78
1:i:209:LEU:HB2	1:i:217:ARG:HH22	1.47	0.78
1:e:535:TRP:O	1:e:539:GLN:NE2	2.17	0.78
1:j:119:LYS:O	1:j:122:PHE:HB3	1.84	0.78
1:e:553:GLU:OE2	1:e:578:ASN:ND2	2.16	0.78
1:g:135:VAL:HG23	1:g:324:ALA:H	1.49	0.78
1:c:465:ARG:HH12	1:c:513:LEU:HA	1.48	0.77
1:a:189:LYS:H	1:a:191:LYS:HZ2	1.30	0.77
1:e:222:ARG:HB3	1:e:284:TRP:HE1	1.50	0.77
1:h:472:VAL:HG13	1:h:510:ARG:HB2	1.65	0.77
1:j:34:LEU:HB3	1:j:38:ARG:HH21	1.49	0.77
1:j:192:ARG:NH2	1:j:485:LYS:O	2.17	0.77
1:i:472:VAL:HG13	1:i:510:ARG:HB2	1.66	0.77
1:c:203:ASN:HB3	1:c:222:ARG:HB2	1.65	0.77
1:e:541:VAL:O	1:e:545:GLY:N	2.16	0.77
1:k:118:PHE:HA	1:k:121:MET:HE2	1.67	0.77
1:j:306:LEU:HB3	1:j:314:SER:H	1.50	0.77
1:d:366:ASN:ND2	1:e:357:ASN:OD1	2.17	0.77
1:f:331:ILE:HG12	1:f:338:MET:HG3	1.67	0.77
1:f:551:VAL:HG23	1:f:555:ASN:HB3	1.65	0.77
1:i:31:SER:O	1:i:35:SER:HB2	1.84	0.76
1:h:331:ILE:HG12	1:h:338:MET:HG3	1.65	0.76
1:i:193:GLU:OE2	1:i:195:LYS:NZ	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:320:CYS:SG	1:i:477:GLN:NE2	2.58	0.76
1:a:465:ARG:HD2	1:a:516:THR:HG21	1.67	0.76
1:a:589:ALA:O	1:a:593:GLN:NE2	2.17	0.76
1:k:13:GLU:HG3	1:k:17:ARG:HH12	1.50	0.76
1:i:573:ASP:OD2	1:i:574:ARG:NH1	2.16	0.76
1:f:472:VAL:HG13	1:f:510:ARG:HB2	1.67	0.76
1:c:31:SER:O	1:c:35:SER:HB2	1.85	0.76
1:g:129:LEU:O	1:g:339:SER:OG	2.02	0.76
1:h:428:ILE:H	1:h:458:GLN:HE22	1.33	0.76
1:b:563:VAL:HG12	1:c:533:ARG:HH21	1.50	0.75
1:c:38:ARG:NH1	1:c:131:MET:O	2.19	0.75
1:g:496:ARG:HE	1:g:497:GLY:H	1.34	0.75
1:k:506:ASN:OD1	1:k:508:ARG:NH1	2.19	0.75
1:j:136:VAL:HG12	1:j:198:CYS:HA	1.67	0.75
1:i:192:ARG:NH2	1:i:485:LYS:O	2.20	0.75
1:b:67:GLU:OE1	1:c:425:ARG:NH2	2.19	0.75
1:f:38:ARG:NH1	1:f:131:MET:O	2.19	0.75
1:d:562:GLU:O	1:d:566:ASN:ND2	2.20	0.75
1:e:132:LYS:HE3	1:e:338:MET:HA	1.69	0.75
1:f:140:VAL:HG12	1:f:194:ILE:HG13	1.68	0.75
1:h:138:VAL:H	1:h:322:PRO:HB2	1.50	0.75
1:j:110:LEU:HA	1:j:114:LYS:HB2	1.67	0.75
1:h:19:LEU:HD11	1:h:290:THR:HG21	1.69	0.75
1:b:561:LYS:NZ	1:b:574:ARG:O	2.18	0.74
1:e:189:LYS:H	1:e:191:LYS:HZ2	1.36	0.74
1:i:87:VAL:HG22	1:i:512:ASP:HB3	1.69	0.74
1:a:38:ARG:NH1	1:a:131:MET:O	2.20	0.74
1:a:426:THR:O	1:a:458:GLN:NE2	2.20	0.74
1:e:99:GLN:HB2	1:e:507:TRP:HZ2	1.51	0.74
1:j:222:ARG:HB3	1:j:284:TRP:HE1	1.51	0.74
1:a:194:ILE:HG12	1:a:481:ASP:HB3	1.67	0.74
1:e:491:GLU:O	1:e:496:ARG:NH1	2.15	0.74
1:h:354:LEU:HD21	1:h:418:LEU:HD11	1.69	0.74
1:c:428:ILE:H	1:c:458:GLN:HE22	1.34	0.74
1:c:472:VAL:HG13	1:c:510:ARG:HB2	1.69	0.74
1:f:31:SER:O	1:f:35:SER:HB2	1.87	0.74
1:k:496:ARG:HH21	1:a:94:ALA:H	1.32	0.74
1:b:429:THR:HB	1:b:434:GLY:H	1.53	0.74
1:b:49:PRO:HB3	1:b:53:GLU:HG3	1.69	0.74
1:b:569:TYR:OH	1:c:533:ARG:NH1	2.21	0.74
1:j:233:LEU:HD22	1:j:235:VAL:HG13	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:44:TYR:O	1:e:348:GLN:NE2	2.21	0.74
1:f:129:LEU:O	1:f:339:SER:OG	2.05	0.74
1:f:138:VAL:H	1:f:322:PRO:HB2	1.51	0.74
1:j:49:PRO:HB3	1:j:53:GLU:HG3	1.68	0.73
1:b:474:ARG:HH12	1:b:477:GLN:HG2	1.53	0.73
1:i:136:VAL:HG12	1:i:198:CYS:HA	1.69	0.73
1:i:462:LEU:HD23	1:i:517:VAL:HG21	1.70	0.73
1:a:136:VAL:HG12	1:a:198:CYS:HA	1.69	0.73
1:h:454:THR:HA	1:h:522:MET:HE1	1.69	0.73
1:k:74:PRO:HB3	1:a:462:LEU:HD11	1.70	0.73
1:k:569:TYR:OH	1:a:533:ARG:NH1	2.22	0.73
1:i:235:VAL:HG12	1:i:312:ILE:HD12	1.69	0.73
1:c:426:THR:O	1:c:458:GLN:NE2	2.22	0.73
1:k:38:ARG:NH1	1:k:131:MET:O	2.21	0.73
1:b:496:ARG:HH22	1:c:92:ASP:HB2	1.51	0.73
1:j:88:LYS:HG2	1:j:89:TYR:H	1.54	0.73
1:j:91:PRO:HG3	1:j:100:ALA:HB2	1.71	0.73
1:c:19:LEU:HD11	1:c:290:THR:HG21	1.71	0.73
1:h:319:ASP:OD2	1:h:480:HIS:NE2	2.21	0.73
1:k:49:PRO:HB3	1:k:53:GLU:HG3	1.69	0.73
1:j:462:LEU:HD23	1:j:517:VAL:HG21	1.70	0.73
1:b:233:LEU:HD22	1:b:235:VAL:HG13	1.70	0.73
1:e:192:ARG:NH2	1:e:485:LYS:O	2.21	0.73
1:k:527:GLN:HE22	1:k:563:VAL:HG22	1.54	0.73
1:i:129:LEU:O	1:i:339:SER:OG	2.06	0.73
1:b:485:LYS:HD2	1:b:502:VAL:HG11	1.68	0.73
1:d:192:ARG:NH2	1:d:485:LYS:O	2.22	0.73
1:k:486:TYR:H	1:k:502:VAL:HG12	1.53	0.73
1:j:126:GLN:HA	1:j:129:LEU:HG	1.71	0.73
1:b:140:VAL:HG12	1:b:194:ILE:HG13	1.71	0.73
1:d:203:ASN:HB3	1:d:222:ARG:HB2	1.69	0.73
1:e:347:ILE:HG21	1:e:422:ARG:HB2	1.71	0.73
1:i:553:GLU:OE2	1:i:578:ASN:ND2	2.22	0.73
1:c:91:PRO:HG3	1:c:100:ALA:HB2	1.71	0.73
1:d:450:ASN:ND2	1:d:525:ASP:OD2	2.21	0.73
1:b:587:ALA:HB1	1:c:549:VAL:HA	1.70	0.72
1:d:561:LYS:NZ	1:d:570:LYS:O	2.19	0.72
1:f:541:VAL:O	1:f:545:GLY:N	2.22	0.72
1:j:31:SER:O	1:j:35:SER:HB2	1.89	0.72
1:b:426:THR:O	1:b:458:GLN:NE2	2.22	0.72
1:f:111:PHE:HA	1:f:115:ASN:HB2	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:331:ILE:HG12	1:g:338:MET:HG3	1.72	0.72
1:j:506:ASN:OD1	1:j:508:ARG:NH1	2.19	0.72
1:a:351:ARG:HH22	1:a:419:GLU:HB2	1.54	0.72
1:j:38:ARG:NH1	1:j:131:MET:O	2.20	0.72
1:j:193:GLU:OE2	1:j:195:LYS:NZ	2.18	0.72
1:i:351:ARG:HH22	1:i:419:GLU:HB2	1.54	0.72
1:c:561:LYS:HZ1	1:c:571:ASP:HA	1.53	0.72
1:h:34:LEU:HB3	1:h:38:ARG:HH21	1.55	0.72
1:k:554:GLN:OE1	1:k:588:LYS:NZ	2.22	0.72
1:j:561:LYS:NZ	1:j:570:LYS:O	2.21	0.72
1:c:562:GLU:O	1:c:566:ASN:ND2	2.22	0.72
1:a:140:VAL:HG12	1:a:194:ILE:HG13	1.72	0.72
1:a:474:ARG:HH12	1:a:477:GLN:HG2	1.53	0.72
1:f:474:ARG:HH12	1:f:477:GLN:HG2	1.55	0.72
1:h:318:TRP:HE1	1:h:322:PRO:HD3	1.55	0.72
1:j:87:VAL:HG22	1:j:512:ASP:HB3	1.70	0.72
1:c:45:TYR:O	1:c:66:GLN:NE2	2.23	0.72
1:c:211:THR:HA	1:c:335:PHE:HA	1.72	0.72
1:k:485:LYS:HD2	1:k:502:VAL:HG11	1.71	0.71
1:i:428:ILE:H	1:i:458:GLN:HE22	1.35	0.71
1:b:227:VAL:HG21	1:b:281:ARG:HH11	1.55	0.71
1:e:205:LEU:HD11	1:e:222:ARG:HD2	1.72	0.71
1:k:522:MET:HE1	1:k:524:LYS:HB2	1.72	0.71
1:a:583:GLU:HA	1:a:586:GLN:HE21	1.55	0.71
1:d:465:ARG:HH12	1:d:513:LEU:HA	1.55	0.71
1:e:581:SER:H	1:e:584:ALA:HB3	1.53	0.71
1:i:76:LEU:HA	1:i:79:VAL:HG12	1.71	0.71
1:d:426:THR:O	1:d:458:GLN:NE2	2.23	0.71
1:g:138:VAL:H	1:g:322:PRO:HB2	1.52	0.71
1:b:424:LYS:HA	1:b:428:ILE:HA	1.72	0.71
1:c:399:ILE:HG22	1:c:401:PRO:HD3	1.72	0.71
1:g:338:MET:HE2	1:g:342:ASP:HB2	1.73	0.71
1:i:533:ARG:NH1	1:h:569:TYR:OH	2.24	0.71
1:a:129:LEU:O	1:a:339:SER:OG	2.08	0.71
1:b:420:ALA:O	1:b:424:LYS:N	2.19	0.71
1:b:578:ASN:O	1:b:588:LYS:NZ	2.20	0.71
1:c:129:LEU:O	1:c:339:SER:OG	2.06	0.71
1:a:553:GLU:OE2	1:a:578:ASN:ND2	2.24	0.71
1:c:49:PRO:HB3	1:c:53:GLU:HG3	1.72	0.71
1:d:91:PRO:HG3	1:d:100:ALA:HB2	1.72	0.71
1:j:45:TYR:O	1:j:66:GLN:NE2	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:343:LYS:O	1:i:425:ARG:NH1	2.23	0.71
1:h:112:MET:HE1	1:h:118:PHE:HB3	1.72	0.71
1:g:136:VAL:HG12	1:g:198:CYS:HA	1.72	0.71
1:k:233:LEU:HD22	1:k:235:VAL:HG13	1.72	0.71
1:j:488:ASN:HA	1:j:500:VAL:HG23	1.73	0.71
1:j:552:SER:O	1:j:556:LEU:N	2.14	0.71
1:a:132:LYS:HG2	1:a:339:SER:HB2	1.71	0.71
1:b:472:VAL:HG13	1:b:510:ARG:HB2	1.71	0.71
1:e:342:ASP:OD1	1:e:345:ARG:NH2	2.24	0.71
1:h:111:PHE:HA	1:h:115:ASN:HB2	1.73	0.71
1:a:486:TYR:H	1:a:502:VAL:HG12	1.55	0.71
1:c:302:LEU:HD11	1:c:321:ARG:HH21	1.53	0.71
1:k:140:VAL:HG12	1:k:194:ILE:HG13	1.72	0.70
1:b:78:LYS:NZ	1:c:457:GLU:OE1	2.23	0.70
1:b:88:LYS:O	1:b:511:SER:N	2.24	0.70
1:j:583:GLU:HA	1:j:586:GLN:HE21	1.56	0.70
1:h:192:ARG:NH2	1:h:485:LYS:O	2.24	0.70
1:a:87:VAL:HG22	1:a:512:ASP:HB3	1.71	0.70
1:e:203:ASN:HB3	1:e:222:ARG:HB2	1.72	0.70
1:j:562:GLU:O	1:j:566:ASN:ND2	2.24	0.70
1:c:136:VAL:HG12	1:c:198:CYS:HA	1.73	0.70
1:c:474:ARG:HH12	1:c:477:GLN:HG2	1.55	0.70
1:d:527:GLN:HE22	1:d:563:VAL:HG22	1.55	0.70
1:a:527:GLN:HE22	1:a:563:VAL:HG22	1.55	0.70
1:d:45:TYR:O	1:d:66:GLN:NE2	2.25	0.70
1:k:426:THR:O	1:k:458:GLN:NE2	2.25	0.70
1:a:393:VAL:HG23	1:a:394:LYS:H	1.56	0.70
1:a:506:ASN:OD1	1:a:508:ARG:NH1	2.25	0.70
1:c:75:SER:HA	1:c:78:LYS:HE2	1.73	0.70
1:c:233:LEU:HD22	1:c:235:VAL:HG13	1.74	0.70
1:e:87:VAL:HG22	1:e:512:ASP:HB3	1.72	0.70
1:f:205:LEU:HB2	1:f:220:CYS:HB3	1.74	0.70
1:i:127:ASP:HA	1:i:131:MET:HG2	1.73	0.70
1:d:136:VAL:HG12	1:d:198:CYS:HA	1.74	0.70
1:k:472:VAL:HG13	1:k:510:ARG:HB2	1.71	0.70
1:c:574:ARG:HE	1:c:576:TRP:HE1	1.40	0.70
1:d:78:LYS:NZ	1:e:457:GLU:OE1	2.25	0.70
1:e:138:VAL:H	1:e:322:PRO:HB2	1.56	0.70
1:c:127:ASP:HA	1:c:131:MET:HB3	1.74	0.69
1:k:219:LEU:HB2	1:k:289:TYR:HB2	1.74	0.69
1:a:485:LYS:HD2	1:a:502:VAL:HG11	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:562:GLU:O	1:a:566:ASN:ND2	2.25	0.69
1:e:136:VAL:HG12	1:e:198:CYS:HA	1.75	0.69
1:j:450:ASN:HA	1:j:525:ASP:HB2	1.74	0.69
1:c:23:VAL:HG23	1:c:218:PHE:HZ	1.56	0.69
1:k:583:GLU:O	1:k:587:ALA:CB	2.40	0.69
1:j:533:ARG:HH12	1:i:574:ARG:HD2	1.58	0.69
1:b:428:ILE:H	1:b:458:GLN:HE22	1.37	0.69
1:b:562:GLU:O	1:b:566:ASN:ND2	2.25	0.69
1:c:69:VAL:HG12	1:c:73:MET:HE2	1.75	0.69
1:c:140:VAL:HG12	1:c:194:ILE:HG13	1.74	0.69
1:i:488:ASN:HA	1:i:500:VAL:HG23	1.75	0.69
1:d:19:LEU:HD11	1:d:290:THR:HG21	1.74	0.69
1:k:302:LEU:HD11	1:k:321:ARG:HH21	1.58	0.69
1:k:345:ARG:HH21	1:j:63:ARG:HH22	1.37	0.69
1:j:428:ILE:H	1:j:458:GLN:HE22	1.40	0.69
1:b:135:VAL:HG23	1:b:324:ALA:H	1.57	0.69
1:b:192:ARG:NH2	1:b:485:LYS:O	2.26	0.69
1:b:394:LYS:HG3	1:b:395:SER:H	1.58	0.69
1:d:88:LYS:O	1:d:511:SER:N	2.26	0.69
1:h:87:VAL:HG22	1:h:512:ASP:HB3	1.73	0.69
1:h:136:VAL:HG12	1:h:198:CYS:HA	1.75	0.69
1:g:140:VAL:HG12	1:g:194:ILE:HG13	1.75	0.69
1:g:331:ILE:HG22	1:g:332:ALA:H	1.57	0.69
1:k:431:ARG:NH1	1:k:432:THR:OG1	2.26	0.69
1:j:13:GLU:HG3	1:j:17:ARG:HH12	1.58	0.69
1:c:394:LYS:HG3	1:c:395:SER:H	1.58	0.69
1:f:485:LYS:HD2	1:f:502:VAL:HG11	1.75	0.69
1:i:426:THR:O	1:i:458:GLN:NE2	2.26	0.69
1:e:450:ASN:ND2	1:e:525:ASP:OD2	2.26	0.69
1:h:45:TYR:O	1:h:66:GLN:NE2	2.26	0.69
1:j:586:GLN:HA	1:j:590:ILE:HB	1.74	0.68
1:b:45:TYR:O	1:b:66:GLN:NE2	2.27	0.68
1:c:132:LYS:HG2	1:c:339:SER:HB2	1.75	0.68
1:c:569:TYR:OH	1:d:533:ARG:NH1	2.25	0.68
1:c:215:ASP:O	1:c:217:ARG:NH1	2.25	0.68
1:c:574:ARG:HE	1:c:576:TRP:NE1	1.91	0.68
1:k:235:VAL:HG12	1:k:312:ILE:HD12	1.76	0.68
1:k:591:ARG:HD2	1:k:592:GLU:HB2	1.74	0.68
1:a:233:LEU:HD22	1:a:235:VAL:HG13	1.74	0.68
1:a:552:SER:O	1:a:556:LEU:N	2.18	0.68
1:a:569:TYR:OH	1:b:533:ARG:NH1	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:136:VAL:HG12	1:f:198:CYS:HA	1.74	0.68
1:k:522:MET:O	1:k:526:GLN:N	2.21	0.68
1:k:562:GLU:O	1:k:566:ASN:ND2	2.26	0.68
1:a:88:LYS:O	1:a:511:SER:N	2.24	0.68
1:i:203:ASN:HB3	1:i:222:ARG:HB2	1.76	0.68
1:e:399:ILE:HG22	1:e:401:PRO:HD3	1.73	0.68
1:f:99:GLN:HB2	1:f:507:TRP:HZ2	1.57	0.68
1:f:222:ARG:HB3	1:f:284:TRP:HE1	1.59	0.68
1:k:129:LEU:O	1:k:339:SER:OG	2.10	0.68
1:b:506:ASN:OD1	1:b:508:ARG:NH1	2.26	0.68
1:d:227:VAL:HG21	1:d:281:ARG:HH11	1.57	0.68
1:e:578:ASN:O	1:e:588:LYS:NZ	2.23	0.68
1:g:132:LYS:HG2	1:g:339:SER:HB2	1.76	0.68
1:g:523:ASN:O	1:g:527:GLN:HB3	1.92	0.68
1:c:393:VAL:HG23	1:c:394:LYS:H	1.58	0.68
1:f:561:LYS:NZ	1:f:570:LYS:O	2.27	0.68
1:j:123:ASP:O	1:j:127:ASP:N	2.25	0.68
1:e:331:ILE:HG22	1:e:332:ALA:H	1.58	0.68
1:e:562:GLU:O	1:e:566:ASN:ND2	2.26	0.68
1:f:479:LEU:HD22	1:f:506:ASN:HB3	1.76	0.68
1:k:576:TRP:HZ3	1:a:550:LEU:HD13	1.58	0.68
1:d:193:GLU:OE2	1:d:195:LYS:NZ	2.27	0.68
1:e:227:VAL:HG21	1:e:281:ARG:HH11	1.59	0.67
1:h:222:ARG:HB3	1:h:284:TRP:HE1	1.58	0.67
1:j:343:LYS:O	1:j:425:ARG:NH1	2.28	0.67
1:a:230:LEU:HD11	1:a:283:VAL:HG11	1.75	0.67
1:a:522:MET:HE1	1:a:524:LYS:HB2	1.76	0.67
1:d:506:ASN:OD1	1:d:508:ARG:NH1	2.21	0.67
1:f:227:VAL:HG21	1:f:281:ARG:HH11	1.60	0.67
1:k:99:GLN:HB2	1:k:507:TRP:HZ2	1.60	0.67
1:k:330:ARG:HB2	1:k:466:MET:HG3	1.77	0.67
1:i:132:LYS:HG2	1:i:339:SER:HB2	1.77	0.67
1:b:383:LEU:O	1:b:385:ASN:ND2	2.27	0.67
1:c:71:TRP:HH2	1:c:432:THR:HG22	1.60	0.67
1:d:87:VAL:HG22	1:d:512:ASP:HB3	1.76	0.67
1:f:399:ILE:HG22	1:f:401:PRO:HD3	1.74	0.67
1:h:424:LYS:HA	1:h:428:ILE:HA	1.77	0.67
1:i:431:ARG:HG3	1:i:432:THR:H	1.58	0.67
1:i:583:GLU:HA	1:i:586:GLN:HE21	1.59	0.67
1:c:429:THR:HB	1:c:434:GLY:H	1.58	0.67
1:g:34:LEU:HB3	1:g:38:ARG:HH21	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:31:SER:O	1:k:35:SER:HB2	1.93	0.67
1:i:143:VAL:N	1:i:191:LYS:O	2.28	0.67
1:b:129:LEU:O	1:b:339:SER:OG	2.12	0.67
1:c:347:ILE:HG23	1:c:418:LEU:HD22	1.77	0.67
1:c:583:GLU:O	1:c:587:ALA:CB	2.41	0.67
1:d:75:SER:HA	1:d:78:LYS:HE2	1.75	0.67
1:d:393:VAL:HG23	1:d:394:LYS:H	1.60	0.67
1:f:203:ASN:HB3	1:f:222:ARG:HB2	1.75	0.67
1:f:331:ILE:HG22	1:f:332:ALA:H	1.60	0.67
1:h:193:GLU:OE2	1:h:195:LYS:NZ	2.25	0.67
1:k:108:ASN:O	1:k:112:MET:N	2.20	0.67
1:j:189:LYS:H	1:j:191:LYS:HZ2	1.42	0.67
1:a:110:LEU:HA	1:a:114:LYS:HB2	1.75	0.67
1:f:19:LEU:HD11	1:f:290:THR:HG21	1.77	0.67
1:f:343:LYS:HD3	1:f:425:ARG:HG3	1.77	0.67
1:h:426:THR:HB	1:h:460:ILE:HD11	1.76	0.67
1:i:205:LEU:HB2	1:i:220:CYS:HB3	1.77	0.67
1:d:389:GLY:O	1:e:369:ARG:NH2	2.28	0.67
1:b:128:THR:HG21	1:b:467:PHE:HE1	1.58	0.67
1:e:379:LEU:HD12	1:e:382:LEU:HG	1.77	0.67
1:i:530:HIS:O	1:i:534:ILE:HB	1.96	0.66
1:d:474:ARG:HH12	1:d:477:GLN:HG2	1.60	0.66
1:e:338:MET:HE2	1:e:342:ASP:HB2	1.77	0.66
1:e:476:PHE:HB2	1:e:510:ARG:CZ	2.25	0.66
1:g:192:ARG:NH2	1:g:485:LYS:O	2.28	0.66
1:c:581:SER:H	1:c:584:ALA:HB3	1.59	0.66
1:d:523:ASN:HD21	1:d:566:ASN:HA	1.60	0.66
1:e:320:CYS:SG	1:e:477:GLN:NE2	2.69	0.66
1:g:111:PHE:HA	1:g:115:ASN:HB2	1.76	0.66
1:g:498:LYS:NZ	1:g:499:TRP:O	2.24	0.66
1:a:331:ILE:HG12	1:a:338:MET:HG3	1.76	0.66
1:b:23:VAL:HG23	1:b:218:PHE:HZ	1.59	0.66
1:c:209:LEU:HB2	1:c:217:ARG:HH22	1.60	0.66
1:h:553:GLU:OE1	1:h:591:ARG:NH2	2.28	0.66
1:h:573:ASP:OD2	1:h:574:ARG:NH1	2.28	0.66
1:b:63:ARG:O	1:c:425:ARG:NH2	2.28	0.66
1:e:393:VAL:HG23	1:e:394:LYS:H	1.60	0.66
1:h:211:THR:HA	1:h:335:PHE:HA	1.77	0.66
1:a:556:LEU:HD23	1:a:559:ILE:HD12	1.78	0.66
1:k:45:TYR:O	1:k:66:GLN:NE2	2.27	0.66
1:k:136:VAL:HG12	1:k:198:CYS:HA	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:129:LEU:HD12	1:j:130:MET:HG2	1.76	0.66
1:a:286:SER:OG	1:a:307:TYR:O	2.12	0.66
1:b:354:LEU:HD11	1:b:415:LEU:HD21	1.78	0.66
1:d:14:GLN:OE1	1:d:17:ARG:NH2	2.29	0.66
1:g:558:ASN:HA	1:g:561:LYS:HE2	1.77	0.66
1:a:522:MET:O	1:a:526:GLN:N	2.24	0.66
1:j:143:VAL:HB	1:j:191:LYS:HB2	1.77	0.66
1:a:19:LEU:HD11	1:a:290:THR:HG21	1.76	0.66
1:e:522:MET:SD	1:e:522:MET:N	2.69	0.66
1:e:527:GLN:HE22	1:e:563:VAL:HG22	1.61	0.66
1:j:476:PHE:HB2	1:j:510:ARG:CZ	2.26	0.66
1:j:14:GLN:HA	1:j:17:ARG:HH11	1.60	0.65
1:a:99:GLN:O	1:a:103:GLU:N	2.19	0.65
1:c:366:ASN:ND2	1:d:357:ASN:OD1	2.29	0.65
1:k:533:ARG:HH22	1:j:564:THR:HG22	1.60	0.65
1:b:587:ALA:O	1:c:549:VAL:HG23	1.96	0.65
1:c:87:VAL:HG22	1:c:512:ASP:HB3	1.79	0.65
1:h:84:GLY:O	1:h:108:ASN:ND2	2.28	0.65
1:k:226:THR:HA	1:k:283:VAL:HG12	1.77	0.65
1:j:65:VAL:HG12	1:j:344:ILE:HB	1.79	0.65
1:j:226:THR:HA	1:j:283:VAL:HG12	1.79	0.65
1:j:472:VAL:HG13	1:j:510:ARG:HB2	1.77	0.65
1:i:37:GLN:OE1	1:i:132:LYS:NZ	2.29	0.65
1:j:331:ILE:HD13	1:j:337:GLY:HA3	1.77	0.65
1:c:91:PRO:HB3	1:c:507:TRP:CD2	2.31	0.65
1:f:478:LEU:O	1:f:482:HIS:ND1	2.26	0.65
1:k:132:LYS:HG2	1:k:339:SER:HB2	1.77	0.65
1:k:525:ASP:HA	1:k:528:MET:HG3	1.79	0.65
1:a:399:ILE:HG22	1:a:401:PRO:HD3	1.78	0.65
1:d:383:LEU:O	1:d:385:ASN:ND2	2.30	0.65
1:a:67:GLU:OE1	1:b:425:ARG:NH2	2.29	0.65
1:b:465:ARG:HB2	1:b:516:THR:HG21	1.78	0.65
1:c:351:ARG:HH22	1:c:419:GLU:HB2	1.60	0.65
1:d:334:LYS:NZ	1:d:336:HIS:O	2.26	0.65
1:d:536:GLU:O	1:d:539:GLN:NE2	2.28	0.65
1:i:13:GLU:HG3	1:i:17:ARG:HH12	1.61	0.65
1:b:209:LEU:HB2	1:b:217:ARG:HH22	1.61	0.65
1:b:216:ALA:O	1:b:321:ARG:NH1	2.28	0.65
1:e:235:VAL:HG12	1:e:312:ILE:HD12	1.78	0.65
1:a:53:GLU:OE2	1:a:356:ARG:NH1	2.30	0.65
1:a:216:ALA:O	1:a:321:ARG:NH1	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:458:GLN:HG3	1:a:460:ILE:HG12	1.78	0.65
1:e:485:LYS:HD2	1:e:502:VAL:HG11	1.79	0.65
1:f:60:ILE:HD12	1:g:345:ARG:HH12	1.62	0.65
1:h:490:GLU:HG2	1:h:498:LYS:HB3	1.79	0.65
1:k:34:LEU:HB3	1:k:38:ARG:HH21	1.62	0.65
1:k:533:ARG:NH1	1:j:569:TYR:OH	2.30	0.65
1:k:576:TRP:HH2	1:a:541:VAL:HG21	1.62	0.65
1:i:561:LYS:NZ	1:i:570:LYS:O	2.30	0.65
1:a:536:GLU:O	1:a:539:GLN:NE2	2.29	0.65
1:d:399:ILE:HG22	1:d:401:PRO:HD3	1.78	0.65
1:d:462:LEU:HD23	1:d:517:VAL:HG21	1.76	0.65
1:k:583:GLU:O	1:k:587:ALA:HB3	1.97	0.64
1:c:506:ASN:OD1	1:c:508:ARG:NH1	2.30	0.64
1:f:491:GLU:HG3	1:f:498:LYS:HG2	1.79	0.64
1:k:38:ARG:NH1	1:k:131:MET:HG2	2.11	0.64
1:i:71:TRP:HH2	1:i:432:THR:HG22	1.62	0.64
1:a:327:ASN:HB2	1:a:337:GLY:HA3	1.77	0.64
1:b:306:LEU:HB3	1:b:314:SER:H	1.61	0.64
1:c:429:THR:HG21	1:c:455:ALA:HB1	1.79	0.64
1:d:473:LYS:HE3	1:d:474:ARG:HH21	1.62	0.64
1:e:86:VAL:HA	1:e:515:VAL:HG11	1.78	0.64
1:e:131:MET:HE1	1:e:200:LYS:HD2	1.79	0.64
1:h:478:LEU:HD12	1:h:482:HIS:HE1	1.61	0.64
1:g:72:ILE:HD11	1:g:129:LEU:HD22	1.78	0.64
1:j:146:PRO:HB3	1:j:189:LYS:HG3	1.80	0.64
1:a:203:ASN:HB3	1:a:222:ARG:HB2	1.79	0.64
1:h:37:GLN:OE1	1:h:132:LYS:NZ	2.29	0.64
1:k:583:GLU:HA	1:k:586:GLN:HE21	1.62	0.64
1:b:393:VAL:HG23	1:b:394:LYS:H	1.63	0.64
1:b:522:MET:HE1	1:b:524:LYS:HB2	1.79	0.64
1:b:496:ARG:HH21	1:c:94:ALA:N	1.95	0.64
1:k:564:THR:HG22	1:a:533:ARG:HH22	1.61	0.64
1:i:143:VAL:HB	1:i:191:LYS:HB2	1.80	0.64
1:a:581:SER:H	1:a:584:ALA:HB3	1.63	0.64
1:c:88:LYS:O	1:c:511:SER:N	2.21	0.64
1:c:458:GLN:HG3	1:c:460:ILE:HG12	1.80	0.64
1:d:479:LEU:HD22	1:d:506:ASN:HB3	1.78	0.64
1:e:327:ASN:HB2	1:e:337:GLY:HA3	1.79	0.64
1:e:498:LYS:NZ	1:e:499:TRP:O	2.30	0.64
1:j:553:GLU:OE2	1:j:578:ASN:ND2	2.30	0.64
1:a:472:VAL:HG13	1:a:510:ARG:HB2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:560:LEU:O	1:b:564:THR:HG23	1.97	0.64
1:e:431:ARG:NH1	1:e:432:THR:OG1	2.31	0.64
1:j:581:SER:H	1:j:584:ALA:HB3	1.62	0.64
1:a:227:VAL:HG21	1:a:281:ARG:HH11	1.62	0.64
1:b:11:ASP:HB2	1:b:294:VAL:HG12	1.80	0.64
1:d:189:LYS:H	1:d:191:LYS:HZ2	1.46	0.64
1:a:91:PRO:HG3	1:a:100:ALA:HB2	1.79	0.64
1:c:424:LYS:HA	1:c:428:ILE:HA	1.78	0.64
1:k:306:LEU:HB3	1:k:314:SER:H	1.62	0.64
1:f:235:VAL:HG12	1:f:312:ILE:HD12	1.79	0.64
1:h:205:LEU:HB2	1:h:220:CYS:HB3	1.79	0.64
1:h:210:ALA:HB3	1:h:335:PHE:HD2	1.63	0.64
1:h:488:ASN:HA	1:h:500:VAL:HG23	1.79	0.64
1:h:581:SER:H	1:h:584:ALA:HB3	1.63	0.64
1:k:286:SER:OG	1:k:307:TYR:O	2.12	0.63
1:j:140:VAL:HG12	1:j:194:ILE:HG13	1.78	0.63
1:a:146:PRO:HB3	1:a:189:LYS:HG3	1.80	0.63
1:b:31:SER:O	1:b:35:SER:HB2	1.98	0.63
1:g:129:LEU:HD12	1:g:130:MET:HG2	1.79	0.63
1:j:129:LEU:O	1:j:339:SER:OG	2.15	0.63
1:i:45:TYR:O	1:i:66:GLN:NE2	2.31	0.63
1:a:69:VAL:HA	1:a:72:ILE:HG12	1.79	0.63
1:k:417:ARG:HH22	1:k:424:LYS:HD3	1.61	0.63
1:a:31:SER:O	1:a:35:SER:HB2	1.97	0.63
1:c:590:ILE:HA	1:c:594:LYS:HZ3	1.63	0.63
1:e:364:ARG:HE	1:e:369:ARG:HH11	1.46	0.63
1:h:479:LEU:HD22	1:h:506:ASN:HB3	1.80	0.63
1:g:420:ALA:O	1:g:424:LYS:N	2.25	0.63
1:k:462:LEU:HD11	1:j:74:PRO:HB3	1.80	0.63
1:j:80:PHE:CE2	1:j:121:MET:HE2	2.33	0.63
1:i:554:GLN:OE1	1:i:588:LYS:NZ	2.32	0.63
1:a:465:ARG:HB2	1:a:516:THR:HG21	1.80	0.63
1:b:74:PRO:C	1:b:78:LYS:HZ3	2.06	0.63
1:b:235:VAL:HG12	1:b:312:ILE:HD12	1.78	0.63
1:i:110:LEU:HA	1:i:114:LYS:HB2	1.78	0.63
1:i:476:PHE:HB2	1:i:510:ARG:CZ	2.28	0.63
1:b:87:VAL:HG22	1:b:512:ASP:HB3	1.79	0.63
1:b:189:LYS:H	1:b:191:LYS:HZ2	1.45	0.63
1:d:458:GLN:HG3	1:d:460:ILE:HG12	1.81	0.63
1:f:135:VAL:HG23	1:f:324:ALA:H	1.64	0.63
1:k:399:ILE:HG22	1:k:401:PRO:HD3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:581:SER:H	1:k:584:ALA:HB3	1.63	0.63
1:c:560:LEU:O	1:c:564:THR:HG23	1.98	0.63
1:e:478:LEU:HD12	1:e:482:HIS:HE1	1.62	0.63
1:f:338:MET:HE2	1:f:342:ASP:HB2	1.80	0.63
1:k:75:SER:HA	1:k:78:LYS:HE2	1.80	0.63
1:b:536:GLU:O	1:b:539:GLN:NE2	2.30	0.63
1:c:192:ARG:NH2	1:c:485:LYS:O	2.31	0.63
1:c:216:ALA:O	1:c:321:ARG:NH1	2.32	0.63
1:c:523:ASN:O	1:c:527:GLN:HB3	1.99	0.63
1:a:239:VAL:HG23	1:a:241:GLU:HG3	1.80	0.63
1:b:34:LEU:HB3	1:b:38:ARG:HH21	1.64	0.63
1:c:446:ALA:HB1	1:c:449:VAL:HG13	1.80	0.63
1:d:23:VAL:HG23	1:d:218:PHE:HZ	1.64	0.63
1:d:478:LEU:O	1:d:482:HIS:ND1	2.26	0.63
1:g:306:LEU:HB3	1:g:314:SER:H	1.64	0.63
1:g:328:ALA:HA	1:g:467:PHE:HE1	1.63	0.63
1:k:34:LEU:HB3	1:k:38:ARG:NH2	2.13	0.63
1:i:93:THR:OG1	1:h:496:ARG:NH2	2.30	0.63
1:i:356:ARG:HA	1:i:359:MET:HE3	1.81	0.63
1:b:458:GLN:HG3	1:b:460:ILE:HG12	1.79	0.63
1:b:463:ILE:HG22	1:b:467:PHE:CE2	2.34	0.63
1:f:491:GLU:H	1:f:498:LYS:HB3	1.64	0.63
1:i:88:LYS:O	1:i:511:SER:N	2.32	0.62
1:i:581:SER:H	1:i:584:ALA:HB3	1.64	0.62
1:e:500:VAL:HG22	1:e:502:VAL:H	1.64	0.62
1:g:65:VAL:HG12	1:g:344:ILE:HB	1.81	0.62
1:k:331:ILE:HG22	1:k:332:ALA:H	1.64	0.62
1:k:424:LYS:HA	1:k:428:ILE:HA	1.81	0.62
1:j:205:LEU:HB2	1:j:220:CYS:HB3	1.81	0.62
1:j:330:ARG:HB2	1:j:466:MET:HG3	1.80	0.62
1:j:428:ILE:H	1:j:458:GLN:NE2	1.96	0.62
1:i:131:MET:HE2	1:i:201:PRO:HG2	1.80	0.62
1:i:476:PHE:HE1	1:i:506:ASN:HD22	1.44	0.62
1:k:523:ASN:HD21	1:k:566:ASN:HA	1.63	0.62
1:b:193:GLU:OE2	1:b:195:LYS:NZ	2.25	0.62
1:f:65:VAL:HG12	1:f:344:ILE:HB	1.81	0.62
1:f:306:LEU:HB3	1:f:314:SER:H	1.63	0.62
1:a:34:LEU:HB3	1:a:38:ARG:NH2	2.14	0.62
1:a:215:ASP:O	1:a:217:ARG:NH1	2.32	0.62
1:c:565:GLU:HA	1:c:570:LYS:HG3	1.81	0.62
1:f:527:GLN:HE22	1:f:563:VAL:HG22	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:19:LEU:HD11	1:b:290:THR:HG21	1.81	0.62
1:e:99:GLN:HB2	1:e:507:TRP:CZ2	2.33	0.62
1:e:99:GLN:HB3	1:e:103:GLU:HG2	1.80	0.62
1:j:77:MET:O	1:j:81:THR:OG1	2.16	0.62
1:d:146:PRO:HB3	1:d:189:LYS:HG3	1.81	0.62
1:e:38:ARG:HB2	1:e:131:MET:HB2	1.82	0.62
1:e:347:ILE:HG23	1:e:418:LEU:HD22	1.82	0.62
1:f:14:GLN:OE1	1:f:17:ARG:NH2	2.33	0.62
1:f:428:ILE:H	1:f:458:GLN:HE22	1.47	0.62
1:j:331:ILE:HG22	1:j:332:ALA:H	1.64	0.62
1:a:45:TYR:O	1:a:66:GLN:NE2	2.28	0.62
1:b:136:VAL:HG12	1:b:198:CYS:HA	1.81	0.62
1:d:553:GLU:OE1	1:d:591:ARG:NH2	2.32	0.62
1:d:560:LEU:O	1:d:564:THR:HG23	1.99	0.62
1:d:573:ASP:OD2	1:d:574:ARG:NH1	2.33	0.62
1:d:485:LYS:HD2	1:d:502:VAL:HG11	1.82	0.62
1:g:450:ASN:ND2	1:g:525:ASP:OD2	2.31	0.62
1:a:14:GLN:HA	1:a:17:ARG:HH11	1.65	0.62
1:c:563:VAL:HG12	1:d:533:ARG:HH21	1.65	0.62
1:d:108:ASN:O	1:d:112:MET:N	2.27	0.62
1:d:192:ARG:HH21	1:d:485:LYS:HB3	1.65	0.62
1:d:379:LEU:HD12	1:d:382:LEU:HG	1.82	0.62
1:d:428:ILE:HG23	1:d:458:GLN:HE22	1.65	0.62
1:e:75:SER:HA	1:e:78:LYS:HE2	1.82	0.62
1:e:241:GLU:HG2	1:e:283:VAL:HA	1.82	0.62
1:k:560:LEU:O	1:k:564:THR:HG23	2.00	0.61
1:c:146:PRO:HA	1:c:188:ASP:H	1.64	0.61
1:e:110:LEU:HA	1:e:114:LYS:HB2	1.82	0.61
1:g:462:LEU:HD23	1:g:517:VAL:HG21	1.80	0.61
1:j:343:LYS:HB2	1:j:425:ARG:HH11	1.65	0.61
1:a:523:ASN:HD21	1:a:566:ASN:HA	1.64	0.61
1:e:205:LEU:HB2	1:e:220:CYS:HB3	1.82	0.61
1:j:458:GLN:HG3	1:j:460:ILE:HG12	1.82	0.61
1:b:419:GLU:O	1:b:423:GLY:N	2.31	0.61
1:e:351:ARG:HH22	1:e:419:GLU:HB2	1.65	0.61
1:f:192:ARG:NH2	1:f:485:LYS:O	2.33	0.61
1:h:578:ASN:O	1:h:588:LYS:NZ	2.32	0.61
1:g:14:GLN:HA	1:g:17:ARG:HH11	1.66	0.61
1:k:343:LYS:O	1:k:425:ARG:NH1	2.33	0.61
1:i:588:LYS:HA	1:i:591:ARG:HH21	1.66	0.61
1:a:38:ARG:HH11	1:a:131:MET:HG3	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:415:LEU:HD23	1:b:418:LEU:HD12	1.82	0.61
1:c:13:GLU:HG3	1:c:17:ARG:HH12	1.65	0.61
1:c:587:ALA:HA	1:c:591:ARG:HG2	1.82	0.61
1:d:578:ASN:O	1:d:588:LYS:NZ	2.30	0.61
1:h:500:VAL:HG22	1:h:502:VAL:H	1.65	0.61
1:g:478:LEU:HD12	1:g:482:HIS:HE1	1.66	0.61
1:j:194:ILE:HB	1:j:482:HIS:CE1	2.35	0.61
1:a:583:GLU:O	1:a:587:ALA:CB	2.48	0.61
1:d:527:GLN:OE1	1:d:566:ASN:ND2	2.34	0.61
1:f:424:LYS:HA	1:f:428:ILE:HA	1.83	0.61
1:h:320:CYS:SG	1:h:477:GLN:NE2	2.73	0.61
1:k:484:ILE:HG23	1:k:485:LYS:H	1.65	0.61
1:k:561:LYS:NZ	1:k:570:LYS:O	2.29	0.61
1:b:561:LYS:O	1:b:564:THR:N	2.33	0.61
1:f:414:MET:HE3	1:f:414:MET:HA	1.83	0.61
1:j:211:THR:HA	1:j:335:PHE:HA	1.82	0.61
1:j:235:VAL:HG12	1:j:312:ILE:HD12	1.82	0.61
1:h:583:GLU:HA	1:h:586:GLN:HE21	1.64	0.61
1:k:91:PRO:HG3	1:k:100:ALA:HB2	1.81	0.61
1:a:560:LEU:O	1:a:564:THR:HG23	2.00	0.61
1:b:286:SER:OG	1:b:307:TYR:O	2.15	0.61
1:e:507:TRP:C	1:e:508:ARG:HD3	2.25	0.61
1:g:194:ILE:HG12	1:g:481:ASP:HB3	1.83	0.61
1:g:472:VAL:HG13	1:g:510:ARG:HB2	1.82	0.61
1:j:219:LEU:HB2	1:j:289:TYR:HB2	1.83	0.61
1:j:485:LYS:HD2	1:j:502:VAL:HG11	1.83	0.61
1:a:417:ARG:NH2	1:a:421:ASP:OD1	2.33	0.61
1:c:496:ARG:HH21	1:d:94:ALA:H	1.47	0.61
1:f:486:TYR:H	1:f:502:VAL:HG12	1.66	0.61
1:a:334:LYS:NZ	1:a:336:HIS:O	2.26	0.61
1:c:286:SER:OG	1:c:307:TYR:O	2.14	0.61
1:d:302:LEU:HD21	1:d:321:ARG:HH21	1.66	0.61
1:e:118:PHE:HB2	1:e:121:MET:HE3	1.82	0.61
1:e:129:LEU:O	1:e:339:SER:OG	2.19	0.61
1:e:484:ILE:HG23	1:e:485:LYS:H	1.66	0.61
1:h:527:GLN:HE22	1:h:563:VAL:HG13	1.65	0.61
1:g:211:THR:HA	1:g:335:PHE:HA	1.82	0.61
1:j:88:LYS:O	1:j:511:SER:N	2.33	0.60
1:j:193:GLU:HA	1:j:486:TYR:CE1	2.36	0.60
1:j:278:GLU:O	1:j:281:ARG:NH1	2.34	0.60
1:a:122:PHE:HA	1:a:125:PHE:CD2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:138:VAL:H	1:j:322:PRO:HB2	1.66	0.60
1:b:484:ILE:HG23	1:b:485:LYS:H	1.65	0.60
1:c:78:LYS:NZ	1:d:457:GLU:OE1	2.35	0.60
1:c:383:LEU:O	1:c:385:ASN:ND2	2.32	0.60
1:d:551:VAL:HG23	1:d:555:ASN:HB3	1.83	0.60
1:h:558:ASN:HA	1:h:561:LYS:HB2	1.82	0.60
1:g:302:LEU:HD11	1:g:321:ARG:HH21	1.65	0.60
1:j:118:PHE:O	1:j:120:VAL:N	2.35	0.60
1:i:364:ARG:HG3	1:i:404:THR:HG21	1.83	0.60
1:c:213:ILE:HG12	1:c:473:LYS:HE2	1.83	0.60
1:c:553:GLU:OE2	1:c:578:ASN:ND2	2.35	0.60
1:g:412:TYR:O	1:g:415:LEU:HB2	2.01	0.60
1:k:129:LEU:HD12	1:k:130:MET:HG2	1.84	0.60
1:k:241:GLU:HG2	1:k:283:VAL:HG23	1.83	0.60
1:i:429:THR:HB	1:i:434:GLY:H	1.66	0.60
1:e:560:LEU:O	1:e:564:THR:HG23	2.01	0.60
1:j:522:MET:HE1	1:j:524:LYS:HB2	1.83	0.60
1:d:211:THR:HA	1:d:335:PHE:HA	1.82	0.60
1:e:19:LEU:HD11	1:e:290:THR:HG21	1.82	0.60
1:e:350:ILE:HG22	1:e:418:LEU:HD11	1.83	0.60
1:i:49:PRO:HB3	1:i:53:GLU:HG3	1.83	0.60
1:c:578:ASN:O	1:c:588:LYS:NZ	2.32	0.60
1:d:476:PHE:HB2	1:d:510:ARG:CZ	2.31	0.60
1:d:522:MET:O	1:d:526:GLN:N	2.28	0.60
1:d:525:ASP:HA	1:d:528:MET:HG3	1.82	0.60
1:k:213:ILE:HG12	1:k:473:LYS:HE2	1.82	0.60
1:i:193:GLU:HA	1:i:486:TYR:CE1	2.37	0.60
1:b:399:ILE:HG22	1:b:401:PRO:HD3	1.83	0.60
1:f:73:MET:HE1	1:f:125:PHE:HB2	1.84	0.60
1:h:431:ARG:HG3	1:h:432:THR:H	1.66	0.60
1:h:477:GLN:NE2	1:h:481:ASP:OD2	2.32	0.60
1:g:484:ILE:HG23	1:g:485:LYS:H	1.67	0.60
1:j:431:ARG:NH1	1:j:432:THR:OG1	2.35	0.60
1:c:189:LYS:H	1:c:191:LYS:HZ2	1.48	0.60
1:c:409:GLY:HA2	1:c:412:TYR:HD2	1.67	0.60
1:d:431:ARG:NH1	1:d:432:THR:OG1	2.34	0.60
1:e:465:ARG:NH2	1:e:512:ASP:OD1	2.35	0.60
1:f:192:ARG:HH21	1:f:485:LYS:HB3	1.67	0.60
1:f:552:SER:O	1:f:556:LEU:N	2.25	0.60
1:j:523:ASN:HD21	1:j:566:ASN:HA	1.67	0.60
1:j:560:LEU:O	1:j:564:THR:HG23	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:583:GLU:O	1:j:587:ALA:N	2.35	0.60
1:i:330:ARG:HB2	1:i:466:MET:SD	2.42	0.60
1:a:484:ILE:HG23	1:a:485:LYS:H	1.66	0.60
1:c:116:GLU:OE1	1:c:119:LYS:HB3	2.01	0.60
1:c:485:LYS:HD2	1:c:502:VAL:HG11	1.84	0.60
1:e:99:GLN:HA	1:e:102:GLN:HB2	1.82	0.60
1:i:210:ALA:HB3	1:i:335:PHE:HD1	1.66	0.59
1:b:587:ALA:O	1:b:591:ARG:NE	2.35	0.59
1:d:328:ALA:HA	1:d:467:PHE:HE1	1.67	0.59
1:h:203:ASN:HB3	1:h:222:ARG:HB2	1.84	0.59
1:k:565:GLU:HG3	1:k:570:LYS:HA	1.84	0.59
1:j:286:SER:OG	1:j:307:TYR:O	2.16	0.59
1:b:13:GLU:HA	1:b:16:LEU:HD13	1.84	0.59
1:b:278:GLU:O	1:b:281:ARG:NH1	2.35	0.59
1:c:227:VAL:HG21	1:c:281:ARG:HH11	1.67	0.59
1:d:99:GLN:HB2	1:d:507:TRP:HZ2	1.66	0.59
1:e:558:ASN:HA	1:e:561:LYS:HB2	1.84	0.59
1:h:11:ASP:HB2	1:h:294:VAL:HG12	1.83	0.59
1:i:590:ILE:HG12	1:i:594:LYS:HZ3	1.67	0.59
1:a:306:LEU:HB3	1:a:314:SER:H	1.67	0.59
1:a:221:HIS:NE2	1:a:223:GLU:OE2	2.32	0.59
1:d:577:THR:HG23	1:d:579:PRO:HD3	1.82	0.59
1:f:320:CYS:SG	1:f:477:GLN:NE2	2.75	0.59
1:g:222:ARG:HB3	1:g:284:TRP:HE1	1.67	0.59
1:k:89:TYR:HD2	1:k:100:ALA:HA	1.67	0.59
1:i:221:HIS:NE2	1:i:223:GLU:OE2	2.34	0.59
1:i:233:LEU:HD22	1:i:235:VAL:HG13	1.84	0.59
1:i:484:ILE:HG23	1:i:485:LYS:H	1.67	0.59
1:a:200:LYS:NZ	1:a:202:GLU:OE1	2.36	0.59
1:c:354:LEU:HD11	1:c:415:LEU:HD21	1.84	0.59
1:h:127:ASP:HA	1:h:131:MET:HB2	1.85	0.59
1:h:193:GLU:HA	1:h:486:TYR:CE1	2.37	0.59
1:h:347:ILE:HG21	1:h:422:ARG:HB2	1.85	0.59
1:j:146:PRO:HA	1:j:188:ASP:H	1.68	0.59
1:k:14:GLN:HA	1:k:17:ARG:HH11	1.67	0.59
1:k:278:GLU:O	1:k:281:ARG:NH1	2.36	0.59
1:k:473:LYS:HE3	1:k:474:ARG:HH21	1.68	0.59
1:a:108:ASN:HA	1:a:111:PHE:HB3	1.83	0.59
1:c:561:LYS:NZ	1:c:570:LYS:O	2.35	0.59
1:e:343:LYS:HD3	1:e:425:ARG:HG3	1.84	0.59
1:h:210:ALA:HB3	1:h:335:PHE:CD2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:429:THR:HB	1:h:434:GLY:H	1.67	0.59
1:k:108:ASN:HA	1:k:111:PHE:HB3	1.85	0.59
1:j:127:ASP:HA	1:j:131:MET:HB3	1.84	0.59
1:i:19:LEU:HD11	1:i:290:THR:HG21	1.84	0.59
1:c:222:ARG:HB3	1:c:284:TRP:CZ2	2.38	0.59
1:d:491:GLU:HG3	1:d:498:LYS:HG2	1.85	0.59
1:f:478:LEU:HD12	1:f:482:HIS:HE1	1.67	0.59
1:h:26:ALA:HB2	1:h:218:PHE:HE2	1.67	0.59
1:j:322:PRO:HA	1:j:474:ARG:HH12	1.67	0.59
1:i:347:ILE:HG23	1:i:418:LEU:HD22	1.83	0.59
1:d:302:LEU:HD11	1:d:321:ARG:HE	1.67	0.59
1:d:429:THR:HB	1:d:434:GLY:H	1.67	0.59
1:f:302:LEU:HD21	1:f:321:ARG:HH21	1.68	0.59
1:h:485:LYS:HD2	1:h:502:VAL:HG11	1.85	0.59
1:h:583:GLU:O	1:h:587:ALA:CB	2.51	0.59
1:k:417:ARG:NH2	1:k:421:ASP:OD1	2.35	0.59
1:i:503:ASN:N	1:i:504:PRO:HD3	2.17	0.59
1:b:523:ASN:HD21	1:b:566:ASN:HA	1.68	0.59
1:d:131:MET:HE2	1:d:201:PRO:HG2	1.84	0.59
1:h:530:HIS:O	1:h:534:ILE:HG12	2.03	0.59
1:g:37:GLN:OE1	1:g:132:LYS:NZ	2.36	0.59
1:g:491:GLU:H	1:g:496:ARG:HH22	1.49	0.59
1:k:99:GLN:O	1:k:103:GLU:N	2.34	0.58
1:k:421:ASP:O	1:k:425:ARG:N	2.35	0.58
1:a:105:GLU:O	1:a:109:TYR:HB3	2.03	0.58
1:a:383:LEU:O	1:a:385:ASN:ND2	2.33	0.58
1:d:205:LEU:HD11	1:d:222:ARG:HD2	1.85	0.58
1:e:429:THR:HB	1:e:434:GLY:H	1.67	0.58
1:f:431:ARG:NH1	1:f:432:THR:OG1	2.35	0.58
1:g:49:PRO:HB3	1:g:53:GLU:HG3	1.84	0.58
1:j:20:ASP:OD2	1:j:307:TYR:OH	2.16	0.58
1:j:484:ILE:HG23	1:j:485:LYS:H	1.68	0.58
1:j:491:GLU:HG3	1:j:498:LYS:HG2	1.84	0.58
1:j:558:ASN:HA	1:j:561:LYS:HB2	1.85	0.58
1:i:211:THR:HA	1:i:335:PHE:HA	1.85	0.58
1:a:527:GLN:OE1	1:a:566:ASN:ND2	2.36	0.58
1:c:327:ASN:HB2	1:c:337:GLY:HA3	1.85	0.58
1:c:465:ARG:NH2	1:c:512:ASP:O	2.28	0.58
1:d:341:TYR:O	1:d:345:ARG:HG3	2.02	0.58
1:e:491:GLU:H	1:e:496:ARG:HH22	1.49	0.58
1:k:522:MET:SD	1:k:525:ASP:N	2.76	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:227:VAL:HB	1:f:279:ALA:HA	1.85	0.58
1:g:38:ARG:NH1	1:g:131:MET:SD	2.76	0.58
1:k:554:GLN:O	1:k:557:TYR:HB3	2.03	0.58
1:j:503:ASN:N	1:j:504:PRO:HD3	2.18	0.58
1:a:193:GLU:OE2	1:a:195:LYS:NZ	2.24	0.58
1:b:132:LYS:HG2	1:b:339:SER:HB2	1.84	0.58
1:b:226:THR:HA	1:b:283:VAL:HG12	1.85	0.58
1:c:338:MET:HE2	1:c:342:ASP:HB2	1.83	0.58
1:h:65:VAL:HG12	1:h:344:ILE:HB	1.85	0.58
1:b:525:ASP:HA	1:b:528:MET:HG3	1.85	0.58
1:c:38:ARG:HH11	1:c:131:MET:HG3	1.68	0.58
1:d:305:ILE:HG23	1:d:313:ILE:HD12	1.86	0.58
1:e:37:GLN:OE1	1:e:132:LYS:NZ	2.35	0.58
1:h:343:LYS:HE2	1:h:425:ARG:HG3	1.85	0.58
1:j:94:ALA:N	1:i:496:ARG:HH21	1.99	0.58
1:b:302:LEU:HD11	1:b:321:ARG:HH21	1.68	0.58
1:c:97:VAL:HA	1:c:101:GLU:OE2	2.03	0.58
1:e:69:VAL:HA	1:e:72:ILE:HG12	1.84	0.58
1:e:211:THR:HA	1:e:335:PHE:HA	1.86	0.58
1:h:106:TYR:HD1	1:h:491:GLU:HG2	1.67	0.58
1:k:561:LYS:O	1:k:564:THR:N	2.37	0.58
1:j:215:ASP:O	1:j:217:ARG:NH1	2.35	0.58
1:c:11:ASP:HB2	1:c:294:VAL:HG12	1.85	0.58
1:c:193:GLU:OE2	1:c:195:LYS:NZ	2.29	0.58
1:e:115:ASN:ND2	1:e:194:ILE:O	2.35	0.58
1:e:462:LEU:HD23	1:e:517:VAL:HG11	1.86	0.58
1:h:118:PHE:HA	1:h:121:MET:HE2	1.84	0.58
1:h:143:VAL:N	1:h:191:LYS:O	2.36	0.58
1:a:561:LYS:O	1:a:564:THR:N	2.37	0.58
1:b:44:TYR:CD2	1:b:345:ARG:HB2	2.39	0.58
1:d:37:GLN:OE1	1:d:132:LYS:NZ	2.37	0.58
1:e:376:GLN:HB3	1:e:394:LYS:HE3	1.83	0.58
1:h:491:GLU:HG3	1:h:498:LYS:HG2	1.84	0.58
1:k:560:LEU:HD22	1:a:537:MET:HG3	1.86	0.58
1:i:343:LYS:HD3	1:i:425:ARG:HG3	1.85	0.58
1:i:574:ARG:HD3	1:i:576:TRP:CZ2	2.39	0.58
1:c:376:GLN:HB3	1:c:394:LYS:HE3	1.85	0.58
1:d:233:LEU:HD22	1:d:235:VAL:HG13	1.84	0.58
1:e:496:ARG:NE	1:e:497:GLY:H	2.02	0.58
1:k:330:ARG:N	1:k:466:MET:HE2	2.18	0.58
1:k:574:ARG:HB3	1:k:576:TRP:CD1	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:112:MET:HA	1:a:112:MET:HE3	1.86	0.58
1:h:338:MET:HE2	1:h:342:ASP:HB2	1.86	0.58
1:h:429:THR:HG21	1:h:433:ARG:HD3	1.86	0.58
1:g:419:GLU:O	1:g:423:GLY:N	2.31	0.58
1:j:93:THR:OG1	1:i:496:ARG:HB2	2.04	0.57
1:j:486:TYR:H	1:j:502:VAL:HG12	1.67	0.57
1:a:73:MET:HB2	1:a:77:MET:HE1	1.84	0.57
1:c:353:VAL:HG12	1:c:356:ARG:HH12	1.69	0.57
1:c:563:VAL:HG12	1:d:533:ARG:NH2	2.18	0.57
1:c:567:ALA:HB2	1:d:533:ARG:CZ	2.34	0.57
1:h:136:VAL:O	1:h:323:PHE:HA	2.03	0.57
1:g:189:LYS:H	1:g:191:LYS:HZ2	1.52	0.57
1:j:330:ARG:N	1:j:466:MET:HE2	2.18	0.57
1:j:590:ILE:HA	1:j:594:LYS:HZ3	1.69	0.57
1:a:205:LEU:HB2	1:a:220:CYS:HB3	1.86	0.57
1:b:465:ARG:HD2	1:b:516:THR:HG21	1.85	0.57
1:c:586:GLN:HA	1:c:590:ILE:HG12	1.86	0.57
1:e:523:ASN:HD21	1:e:566:ASN:HA	1.68	0.57
1:h:344:ILE:HD11	1:h:426:THR:HG23	1.85	0.57
1:k:110:LEU:HA	1:k:114:LYS:HB2	1.85	0.57
1:k:465:ARG:HB2	1:k:516:THR:HG21	1.85	0.57
1:k:586:GLN:HA	1:k:590:ILE:HG12	1.86	0.57
1:i:146:PRO:HA	1:i:188:ASP:H	1.68	0.57
1:a:394:LYS:HG3	1:a:395:SER:H	1.69	0.57
1:b:506:ASN:OD1	1:b:508:ARG:HD3	2.04	0.57
1:c:465:ARG:HB2	1:c:516:THR:HG21	1.87	0.57
1:c:561:LYS:NZ	1:c:574:ARG:O	2.31	0.57
1:e:577:THR:HG23	1:e:579:PRO:HD3	1.86	0.57
1:g:474:ARG:HH12	1:g:477:GLN:HG2	1.69	0.57
1:k:425:ARG:HG3	1:k:426:THR:HG23	1.86	0.57
1:i:191:LYS:HG3	1:i:487:GLN:CD	2.28	0.57
1:a:46:PHE:O	1:a:63:ARG:NH2	2.37	0.57
1:a:302:LEU:HD11	1:a:321:ARG:HH21	1.68	0.57
1:b:116:GLU:OE2	1:b:119:LYS:HB3	2.03	0.57
1:b:200:LYS:NZ	1:b:202:GLU:OE1	2.38	0.57
1:f:351:ARG:HH22	1:f:419:GLU:HB2	1.69	0.57
1:f:482:HIS:HD2	1:f:486:TYR:CG	2.22	0.57
1:g:110:LEU:HA	1:g:114:LYS:HB2	1.84	0.57
1:k:189:LYS:H	1:k:191:LYS:HZ2	1.50	0.57
1:k:193:GLU:OE2	1:k:195:LYS:NZ	2.20	0.57
1:k:203:ASN:HB3	1:k:222:ARG:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:587:ALA:HA	1:k:591:ARG:HG2	1.87	0.57
1:j:530:HIS:O	1:j:534:ILE:HB	2.04	0.57
1:i:278:GLU:O	1:i:281:ARG:NH1	2.38	0.57
1:c:200:LYS:HD3	1:d:333:HIS:CE1	2.40	0.57
1:e:322:PRO:HA	1:e:474:ARG:HH22	1.70	0.57
1:f:347:ILE:HG21	1:f:422:ARG:HB2	1.86	0.57
1:f:476:PHE:HB2	1:f:510:ARG:CZ	2.34	0.57
1:a:424:LYS:HA	1:a:428:ILE:HA	1.86	0.57
1:a:428:ILE:H	1:a:458:GLN:HE22	1.51	0.57
1:b:419:GLU:OE2	1:b:422:ARG:NE	2.33	0.57
1:d:581:SER:H	1:d:584:ALA:HB3	1.70	0.57
1:f:118:PHE:HB2	1:f:121:MET:HE3	1.86	0.57
1:h:534:ILE:HD13	1:h:537:MET:HE2	1.85	0.57
1:g:482:HIS:HA	1:g:486:TYR:HB2	1.85	0.57
1:k:458:GLN:HG3	1:k:460:ILE:HG12	1.86	0.57
1:b:91:PRO:HG3	1:b:100:ALA:HB2	1.86	0.57
1:c:428:ILE:HD11	1:c:456:ALA:O	2.05	0.57
1:f:429:THR:HB	1:f:434:GLY:H	1.70	0.57
1:g:320:CYS:SG	1:g:477:GLN:NE2	2.77	0.57
1:j:121:MET:HA	1:j:124:TRP:HB2	1.87	0.57
1:b:24:ASN:HA	1:b:27:LEU:HD12	1.87	0.57
1:e:105:GLU:O	1:e:109:TYR:HB3	2.04	0.57
1:e:302:LEU:HD11	1:e:321:ARG:HE	1.69	0.57
1:f:347:ILE:HG23	1:f:418:LEU:HD22	1.86	0.57
1:i:322:PRO:HA	1:i:474:ARG:HH12	1.70	0.57
1:b:574:ARG:NE	1:b:576:TRP:HE1	2.01	0.57
1:e:210:ALA:HB3	1:e:335:PHE:CD1	2.38	0.57
1:e:364:ARG:O	1:e:367:GLN:NE2	2.32	0.57
1:f:26:ALA:HB2	1:f:218:PHE:HE2	1.70	0.57
1:g:40:GLU:HA	1:g:43:LYS:HZ3	1.70	0.57
1:k:465:ARG:HD2	1:k:516:THR:HG21	1.87	0.57
1:i:140:VAL:HG12	1:i:194:ILE:HG13	1.86	0.57
1:a:99:GLN:HB2	1:a:507:TRP:HZ2	1.70	0.57
1:a:576:TRP:HZ3	1:b:550:LEU:HD13	1.69	0.57
1:b:230:LEU:HD11	1:b:283:VAL:HG11	1.86	0.57
1:e:491:GLU:HG3	1:e:498:LYS:HG2	1.87	0.57
1:f:211:THR:HA	1:f:335:PHE:HA	1.87	0.57
1:h:129:LEU:O	1:h:339:SER:OG	2.23	0.57
1:h:194:ILE:HG12	1:h:481:ASP:HB3	1.87	0.57
1:i:338:MET:HE2	1:i:342:ASP:HB2	1.86	0.56
1:a:235:VAL:HG12	1:a:312:ILE:HD12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:525:ASP:HA	1:a:528:MET:HG3	1.86	0.56
1:f:146:PRO:HG3	1:f:189:LYS:HE3	1.87	0.56
1:k:491:GLU:HG3	1:k:498:LYS:HG2	1.86	0.56
1:i:109:TYR:HD1	1:i:113:ARG:HH21	1.50	0.56
1:i:558:ASN:HA	1:i:561:LYS:HB2	1.87	0.56
1:a:23:VAL:HG23	1:a:218:PHE:HZ	1.70	0.56
1:k:82:SER:O	1:k:85:GLN:NE2	2.38	0.56
1:k:330:ARG:HD2	1:k:466:MET:HG3	1.87	0.56
1:k:334:LYS:NZ	1:k:336:HIS:O	2.38	0.56
1:k:498:LYS:NZ	1:k:499:TRP:O	2.37	0.56
1:i:14:GLN:HA	1:i:17:ARG:HH11	1.70	0.56
1:i:138:VAL:H	1:i:322:PRO:HB2	1.70	0.56
1:i:577:THR:HG23	1:i:578:ASN:H	1.70	0.56
1:b:14:GLN:HA	1:b:17:ARG:HH11	1.69	0.56
1:b:219:LEU:O	1:b:288:CYS:HA	2.05	0.56
1:b:331:ILE:HG12	1:b:338:MET:HG3	1.86	0.56
1:b:342:ASP:OD1	1:b:345:ARG:NH2	2.38	0.56
1:b:451:GLN:HE22	1:b:525:ASP:HB2	1.71	0.56
1:b:522:MET:O	1:b:526:GLN:N	2.29	0.56
1:d:99:GLN:O	1:d:103:GLU:N	2.25	0.56
1:g:192:ARG:HH21	1:g:485:LYS:HB3	1.70	0.56
1:k:187:LYS:O	1:k:191:LYS:NZ	2.32	0.56
1:k:194:ILE:HG12	1:k:481:ASP:HB3	1.86	0.56
1:a:226:THR:HA	1:a:283:VAL:HG12	1.88	0.56
1:f:477:GLN:NE2	1:f:481:ASP:OD2	2.36	0.56
1:h:235:VAL:HG12	1:h:312:ILE:HD12	1.87	0.56
1:g:113:ARG:H	1:g:117:GLY:HA2	1.70	0.56
1:j:94:ALA:H	1:i:496:ARG:NH2	1.99	0.56
1:d:574:ARG:HE	1:d:576:TRP:HE1	1.53	0.56
1:e:146:PRO:HB3	1:e:189:LYS:HG3	1.87	0.56
1:g:343:LYS:HD3	1:g:425:ARG:HG3	1.86	0.56
1:c:134:GLY:O	1:c:326:LEU:N	2.34	0.56
1:e:482:HIS:HD2	1:e:486:TYR:CG	2.23	0.56
1:f:131:MET:HE2	1:f:201:PRO:HG2	1.88	0.56
1:h:216:ALA:O	1:h:321:ARG:NH1	2.38	0.56
1:i:65:VAL:HG12	1:i:344:ILE:HB	1.88	0.56
1:a:287:GLU:OE2	1:a:304:ARG:NE	2.39	0.56
1:b:127:ASP:O	1:b:133:THR:N	2.38	0.56
1:f:213:ILE:HD11	1:f:323:PHE:HB2	1.87	0.56
1:h:76:LEU:HA	1:h:79:VAL:HG12	1.87	0.56
1:h:304:ARG:O	1:h:315:ASN:HA	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:496:ARG:NH2	1:a:95:GLU:OE1	2.39	0.56
1:j:500:VAL:HG22	1:j:502:VAL:H	1.71	0.56
1:i:213:ILE:HD11	1:i:323:PHE:HB2	1.87	0.56
1:i:345:ARG:HD2	1:i:346:ASP:N	2.20	0.56
1:b:587:ALA:HA	1:b:591:ARG:HG2	1.88	0.56
1:f:319:ASP:OD2	1:f:480:HIS:NE2	2.36	0.56
1:i:527:GLN:HB2	1:i:566:ASN:HB3	1.87	0.56
1:a:60:ILE:O	1:a:356:ARG:NE	2.32	0.56
1:d:44:TYR:O	1:d:348:GLN:NE2	2.35	0.56
1:d:551:VAL:HG21	1:d:559:ILE:HD11	1.87	0.56
1:k:30:ASN:HD22	1:k:205:LEU:HA	1.71	0.56
1:k:573:ASP:OD2	1:k:574:ARG:NH1	2.39	0.56
1:a:465:ARG:NH1	1:a:512:ASP:O	2.34	0.56
1:b:99:GLN:HA	1:b:102:GLN:HB2	1.88	0.56
1:b:203:ASN:HB3	1:b:222:ARG:HB2	1.87	0.56
1:c:219:LEU:O	1:c:288:CYS:HA	2.06	0.56
1:j:193:GLU:HA	1:j:486:TYR:HE1	1.70	0.55
1:j:554:GLN:O	1:j:557:TYR:HB3	2.06	0.55
1:j:574:ARG:HB3	1:j:576:TRP:CD1	2.41	0.55
1:i:194:ILE:HB	1:i:482:HIS:CE1	2.41	0.55
1:a:89:TYR:HE2	1:a:103:GLU:HB2	1.71	0.55
1:b:496:ARG:NH2	1:c:92:ASP:HB2	2.21	0.55
1:f:74:PRO:HB2	1:f:78:LYS:NZ	2.20	0.55
1:f:110:LEU:O	1:f:115:ASN:N	2.38	0.55
1:g:199:VAL:HG11	1:g:323:PHE:HE1	1.71	0.55
1:k:88:LYS:HG2	1:k:89:TYR:H	1.71	0.55
1:k:119:LYS:HZ3	1:a:330:ARG:HE	1.53	0.55
1:j:487:GLN:HG3	1:j:488:ASN:H	1.70	0.55
1:i:26:ALA:HB2	1:i:218:PHE:HE2	1.70	0.55
1:i:129:LEU:HD12	1:i:130:MET:HG2	1.87	0.55
1:a:331:ILE:HG22	1:a:332:ALA:H	1.71	0.55
1:b:112:MET:HA	1:b:112:MET:HE3	1.87	0.55
1:d:210:ALA:HB3	1:d:335:PHE:CD1	2.40	0.55
1:d:541:VAL:O	1:d:545:GLY:N	2.38	0.55
1:e:135:VAL:HB	1:e:325:ASP:HA	1.89	0.55
1:e:424:LYS:HA	1:e:428:ILE:HA	1.87	0.55
1:j:557:TYR:HD1	1:j:576:TRP:HB3	1.71	0.55
1:i:193:GLU:HA	1:i:486:TYR:HE1	1.71	0.55
1:b:44:TYR:O	1:b:348:GLN:NE2	2.24	0.55
1:b:189:LYS:O	1:b:191:LYS:HD2	2.06	0.55
1:b:347:ILE:HG23	1:b:418:LEU:HD22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:99:GLN:HA	1:d:102:GLN:HB2	1.89	0.55
1:d:127:ASP:HB3	1:d:133:THR:O	2.07	0.55
1:e:367:GLN:HE22	1:e:369:ARG:HG2	1.70	0.55
1:h:328:ALA:HA	1:h:467:PHE:CE1	2.41	0.55
1:h:476:PHE:HB2	1:h:510:ARG:CZ	2.35	0.55
1:g:64:ASP:HB3	1:g:348:GLN:HB2	1.89	0.55
1:i:29:PHE:CE2	1:i:208:ARG:HB2	2.41	0.55
1:i:121:MET:HB3	1:i:125:PHE:CZ	2.40	0.55
1:d:27:LEU:O	1:d:31:SER:HB2	2.06	0.55
1:d:492:VAL:HA	1:d:496:ARG:HH22	1.72	0.55
1:e:38:ARG:NH1	1:e:131:MET:O	2.40	0.55
1:e:331:ILE:HG12	1:e:338:MET:HG3	1.87	0.55
1:f:344:ILE:HD11	1:f:426:THR:HG23	1.86	0.55
1:f:558:ASN:HA	1:f:561:LYS:HB2	1.88	0.55
1:k:88:LYS:O	1:k:511:SER:N	2.35	0.55
1:j:559:ILE:HG12	1:i:574:ARG:NH2	2.21	0.55
1:a:338:MET:HE2	1:a:342:ASP:HB2	1.88	0.55
1:b:187:LYS:O	1:b:191:LYS:NZ	2.34	0.55
1:d:519:ILE:O	1:d:521:ASN:N	2.40	0.55
1:e:34:LEU:HD11	1:e:336:HIS:HB3	1.88	0.55
1:g:450:ASN:ND2	1:g:521:ASN:OD1	2.40	0.55
1:g:503:ASN:N	1:g:504:PRO:HD3	2.22	0.55
1:k:476:PHE:HB2	1:k:510:ARG:CZ	2.37	0.55
1:b:38:ARG:NH1	1:b:131:MET:O	2.40	0.55
1:b:219:LEU:HB2	1:b:289:TYR:HB2	1.88	0.55
1:d:134:GLY:O	1:d:326:LEU:N	2.38	0.55
1:d:565:GLU:HA	1:d:570:LYS:HG3	1.88	0.55
1:e:417:ARG:NH2	1:e:421:ASP:OD1	2.30	0.55
1:e:556:LEU:HA	1:e:559:ILE:HB	1.88	0.55
1:h:22:LEU:HD11	1:h:217:ARG:HH22	1.72	0.55
1:h:338:MET:HE1	1:h:343:LYS:HB3	1.88	0.55
1:g:318:TRP:NE1	1:g:320:CYS:O	2.39	0.55
1:g:556:LEU:HA	1:g:559:ILE:HB	1.89	0.55
1:k:541:VAL:HG13	1:k:550:LEU:HD12	1.87	0.55
1:a:465:ARG:HH22	1:a:512:ASP:CG	2.14	0.55
1:b:428:ILE:H	1:b:458:GLN:NE2	2.05	0.55
1:f:577:THR:HG23	1:f:578:ASN:H	1.72	0.55
1:g:76:LEU:HA	1:g:79:VAL:HG12	1.87	0.55
1:g:491:GLU:N	1:g:496:ARG:HH22	2.04	0.55
1:i:560:LEU:HB3	1:i:576:TRP:HZ3	1.72	0.55
1:a:119:LYS:HA	1:b:330:ARG:NH2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:14:GLN:HA	1:c:17:ARG:HH11	1.72	0.55
1:c:287:GLU:OE2	1:c:304:ARG:NE	2.40	0.55
1:d:446:ALA:HB1	1:d:449:VAL:HG13	1.89	0.55
1:f:129:LEU:O	1:f:130:MET:HE2	2.06	0.55
1:i:498:LYS:HZ3	1:i:499:TRP:CD1	2.25	0.55
1:b:323:PHE:O	1:b:474:ARG:NE	2.40	0.55
1:b:429:THR:HG21	1:b:455:ALA:HB1	1.89	0.55
1:b:560:LEU:HD22	1:c:537:MET:HE3	1.88	0.55
1:e:24:ASN:HA	1:e:27:LEU:HD12	1.87	0.55
1:g:485:LYS:HD2	1:g:502:VAL:HG11	1.88	0.55
1:j:428:ILE:HG23	1:j:458:GLN:HE22	1.72	0.55
1:i:331:ILE:HD13	1:i:337:GLY:HA3	1.89	0.55
1:i:523:ASN:O	1:i:527:GLN:HB3	2.06	0.55
1:i:554:GLN:O	1:i:557:TYR:HB3	2.07	0.55
1:a:189:LYS:O	1:a:191:LYS:HD2	2.06	0.55
1:a:488:ASN:HA	1:a:500:VAL:HG23	1.88	0.55
1:c:221:HIS:NE2	1:c:223:GLU:OE2	2.35	0.55
1:f:34:LEU:HD11	1:f:336:HIS:HB3	1.88	0.55
1:f:278:GLU:O	1:f:281:ARG:NH1	2.40	0.55
1:f:305:ILE:HG23	1:f:313:ILE:HD12	1.89	0.55
1:h:88:LYS:O	1:h:511:SER:N	2.39	0.55
1:g:355:MET:HA	1:g:358:ILE:HG22	1.89	0.55
1:k:346:ASP:OD1	1:k:346:ASP:N	2.37	0.54
1:a:575:PHE:CG	1:a:576:TRP:N	2.73	0.54
1:b:99:GLN:O	1:b:103:GLU:N	2.22	0.54
1:c:14:GLN:HA	1:c:17:ARG:HG2	1.88	0.54
1:c:200:LYS:NZ	1:c:202:GLU:OE1	2.40	0.54
1:c:514:THR:HA	1:c:520:GLY:H	1.72	0.54
1:d:27:LEU:O	1:d:31:SER:CB	2.55	0.54
1:e:76:LEU:HD13	1:e:125:PHE:CD2	2.43	0.54
1:h:343:LYS:O	1:h:425:ARG:NH1	2.39	0.54
1:g:318:TRP:HE1	1:g:322:PRO:HD3	1.72	0.54
1:k:23:VAL:HG23	1:k:218:PHE:HZ	1.72	0.54
1:k:287:GLU:OE2	1:k:304:ARG:NE	2.39	0.54
1:j:92:ASP:N	1:j:92:ASP:OD1	2.39	0.54
1:j:320:CYS:SG	1:j:477:GLN:NE2	2.69	0.54
1:b:503:ASN:N	1:b:504:PRO:HD3	2.22	0.54
1:c:496:ARG:HH21	1:d:94:ALA:N	2.04	0.54
1:c:569:TYR:OH	1:d:534:ILE:HD11	2.07	0.54
1:d:532:MET:SD	1:d:533:ARG:N	2.80	0.54
1:f:241:GLU:HG2	1:f:283:VAL:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:146:PRO:HB3	1:h:189:LYS:HG3	1.87	0.54
1:h:484:ILE:HG23	1:h:485:LYS:H	1.73	0.54
1:g:486:TYR:H	1:g:502:VAL:HG12	1.72	0.54
1:j:69:VAL:HA	1:j:72:ILE:HG12	1.90	0.54
1:j:112:MET:HE1	1:j:118:PHE:HA	1.89	0.54
1:i:73:MET:HE1	1:i:125:PHE:HB2	1.89	0.54
1:i:305:ILE:HG23	1:i:313:ILE:HD12	1.88	0.54
1:c:95:GLU:HA	1:c:98:GLU:CD	2.32	0.54
1:d:340:VAL:O	1:d:344:ILE:HG12	2.07	0.54
1:d:589:ALA:O	1:d:593:GLN:HG2	2.08	0.54
1:h:474:ARG:HH12	1:h:477:GLN:HG2	1.71	0.54
1:g:137:LYS:HA	1:g:322:PRO:O	2.07	0.54
1:g:491:GLU:HG3	1:g:498:LYS:HG2	1.87	0.54
1:j:74:PRO:C	1:j:78:LYS:HZ3	2.16	0.54
1:i:458:GLN:HG3	1:i:460:ILE:HG12	1.90	0.54
1:i:534:ILE:HD11	1:h:574:ARG:HH12	1.72	0.54
1:a:491:GLU:HG3	1:a:498:LYS:HG2	1.89	0.54
1:c:334:LYS:NZ	1:c:336:HIS:O	2.32	0.54
1:c:428:ILE:H	1:c:458:GLN:NE2	2.04	0.54
1:e:26:ALA:HB2	1:e:218:PHE:HE2	1.73	0.54
1:e:140:VAL:HG12	1:e:194:ILE:HG13	1.90	0.54
1:e:554:GLN:O	1:e:557:TYR:HB3	2.07	0.54
1:f:38:ARG:HB2	1:f:131:MET:HA	1.90	0.54
1:f:530:HIS:CE1	1:f:534:ILE:HG13	2.42	0.54
1:k:503:ASN:N	1:k:504:PRO:HD3	2.22	0.54
1:k:587:ALA:O	1:k:591:ARG:NE	2.33	0.54
1:j:227:VAL:HG21	1:j:281:ARG:HH11	1.72	0.54
1:b:431:ARG:NH1	1:b:432:THR:OG1	2.41	0.54
1:c:331:ILE:HG22	1:c:332:ALA:H	1.72	0.54
1:c:417:ARG:NH2	1:c:421:ASP:OD1	2.37	0.54
1:c:530:HIS:O	1:c:534:ILE:HG12	2.08	0.54
1:e:532:MET:SD	1:e:533:ARG:N	2.80	0.54
1:h:15:VAL:HG12	1:h:292:LEU:HD13	1.88	0.54
1:k:116:GLU:OE1	1:k:119:LYS:N	2.41	0.54
1:k:555:ASN:HA	1:k:558:ASN:HD22	1.73	0.54
1:i:64:ASP:HB3	1:i:348:GLN:HB2	1.88	0.54
1:b:486:TYR:H	1:b:502:VAL:HG12	1.72	0.54
1:c:27:LEU:O	1:c:31:SER:HB2	2.06	0.54
1:c:146:PRO:HG3	1:c:189:LYS:HE3	1.89	0.54
1:c:306:LEU:HB3	1:c:314:SER:H	1.71	0.54
1:e:521:ASN:O	1:e:526:GLN:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:446:ALA:HB1	1:h:449:VAL:HG13	1.89	0.54
1:h:553:GLU:HB3	1:h:588:LYS:HD3	1.88	0.54
1:g:14:GLN:HA	1:g:17:ARG:HG2	1.88	0.54
1:g:417:ARG:HH22	1:g:424:LYS:HD3	1.72	0.54
1:j:89:TYR:HE2	1:j:103:GLU:HB2	1.73	0.54
1:b:522:MET:SD	1:b:525:ASP:N	2.80	0.54
1:f:208:ARG:HG3	1:f:336:HIS:ND1	2.23	0.54
1:f:473:LYS:HE3	1:f:474:ARG:HH21	1.72	0.54
1:h:104:THR:O	1:h:108:ASN:ND2	2.41	0.54
1:g:278:GLU:O	1:g:281:ARG:NH1	2.40	0.54
1:b:465:ARG:HH21	1:b:468:ALA:HB3	1.73	0.54
1:d:331:ILE:HG22	1:d:332:ALA:H	1.71	0.54
1:e:80:PHE:CD2	1:e:125:PHE:HZ	2.25	0.54
1:f:37:GLN:OE1	1:f:132:LYS:NZ	2.41	0.54
1:f:137:LYS:HA	1:f:322:PRO:O	2.08	0.54
1:j:90:GLU:HB2	1:j:511:SER:HB3	1.90	0.54
1:j:92:ASP:HB2	1:i:496:ARG:NH2	2.23	0.54
1:i:135:VAL:HG23	1:i:324:ALA:H	1.73	0.54
1:b:414:MET:HA	1:b:417:ARG:HE	1.73	0.54
1:b:565:GLU:HA	1:b:570:LYS:HG3	1.89	0.54
1:c:119:LYS:HZ1	1:c:123:ASP:CG	2.14	0.54
1:c:561:LYS:O	1:c:564:THR:N	2.41	0.54
1:f:193:GLU:OE2	1:f:195:LYS:NZ	2.35	0.54
1:k:534:ILE:HG21	1:k:559:ILE:HG23	1.90	0.54
1:j:92:ASP:HB2	1:i:496:ARG:HH22	1.73	0.54
1:i:588:LYS:HA	1:i:591:ARG:HE	1.72	0.54
1:b:528:MET:SD	1:b:529:LEU:HG	2.47	0.54
1:c:99:GLN:HB3	1:c:103:GLU:HG2	1.89	0.54
1:h:328:ALA:HA	1:h:467:PHE:HE1	1.73	0.54
1:h:503:ASN:N	1:h:504:PRO:HD3	2.23	0.54
1:g:482:HIS:HD2	1:g:486:TYR:CG	2.26	0.54
1:k:527:GLN:OE1	1:k:566:ASN:ND2	2.40	0.53
1:b:146:PRO:HA	1:b:188:ASP:H	1.72	0.53
1:b:239:VAL:HG23	1:b:241:GLU:HG3	1.89	0.53
1:b:306:LEU:CB	1:b:314:SER:H	2.21	0.53
1:c:462:LEU:HD23	1:c:517:VAL:HG21	1.89	0.53
1:f:127:ASP:HA	1:f:131:MET:HG2	1.90	0.53
1:h:17:ARG:NH2	1:h:310:ASP:OD1	2.42	0.53
1:k:105:GLU:HG3	1:k:493:PHE:CD1	2.43	0.53
1:j:573:ASP:OD2	1:j:574:ARG:NH1	2.41	0.53
1:a:412:TYR:HB3	1:b:417:ARG:HH12	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:528:MET:SD	1:a:529:LEU:HG	2.48	0.53
1:b:105:GLU:O	1:b:109:TYR:HB3	2.08	0.53
1:b:346:ASP:N	1:b:346:ASP:OD1	2.41	0.53
1:e:86:VAL:HG12	1:e:87:VAL:HG23	1.90	0.53
1:e:302:LEU:O	1:e:318:TRP:N	2.27	0.53
1:h:302:LEU:HD11	1:h:321:ARG:HH21	1.72	0.53
1:k:138:VAL:H	1:k:322:PRO:HB2	1.73	0.53
1:j:116:GLU:OE1	1:j:119:LYS:HB3	2.08	0.53
1:a:476:PHE:HE1	1:a:506:ASN:HB2	1.73	0.53
1:b:99:GLN:HB2	1:b:507:TRP:HZ2	1.74	0.53
1:d:91:PRO:HB3	1:d:507:TRP:CD2	2.42	0.53
1:d:326:LEU:HG	1:d:470:THR:HG21	1.89	0.53
1:d:447:MET:HE3	1:d:528:MET:HE3	1.91	0.53
1:e:111:PHE:HE1	1:e:196:VAL:HG11	1.73	0.53
1:f:328:ALA:HA	1:f:467:PHE:CE1	2.43	0.53
1:h:88:LYS:HG2	1:h:89:TYR:H	1.73	0.53
1:g:496:ARG:NE	1:g:497:GLY:H	2.05	0.53
1:k:496:ARG:HB2	1:a:93:THR:OG1	2.09	0.53
1:i:210:ALA:HB3	1:i:335:PHE:CD1	2.43	0.53
1:i:354:LEU:HD11	1:i:415:LEU:HD21	1.89	0.53
1:a:187:LYS:O	1:a:191:LYS:NZ	2.40	0.53
1:b:130:MET:HE3	1:b:130:MET:O	2.08	0.53
1:b:131:MET:HE3	1:b:202:GLU:HG3	1.91	0.53
1:c:88:LYS:NZ	1:c:100:ALA:HB1	2.24	0.53
1:c:484:ILE:HG23	1:c:485:LYS:H	1.72	0.53
1:d:34:LEU:HG	1:d:336:HIS:CD2	2.43	0.53
1:f:450:ASN:HA	1:f:525:ASP:CG	2.33	0.53
1:g:99:GLN:HB2	1:g:507:TRP:HZ2	1.74	0.53
1:k:46:PHE:O	1:k:63:ARG:NH2	2.42	0.53
1:k:465:ARG:HH12	1:k:513:LEU:HA	1.74	0.53
1:k:532:MET:SD	1:k:533:ARG:N	2.81	0.53
1:k:558:ASN:HA	1:k:561:LYS:HB2	1.88	0.53
1:j:97:VAL:HA	1:j:101:GLU:OE2	2.08	0.53
1:j:189:LYS:O	1:j:191:LYS:HD2	2.09	0.53
1:j:541:VAL:O	1:j:545:GLY:N	2.40	0.53
1:i:498:LYS:NZ	1:i:499:TRP:O	2.42	0.53
1:b:131:MET:HE2	1:b:201:PRO:HG2	1.89	0.53
1:b:554:GLN:O	1:b:557:TYR:HB3	2.07	0.53
1:c:99:GLN:HB2	1:c:507:TRP:HZ2	1.73	0.53
1:c:219:LEU:HB2	1:c:289:TYR:HB2	1.89	0.53
1:c:496:ARG:NH2	1:d:92:ASP:HB2	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:39:SER:HB2	1:e:43:LYS:NZ	2.23	0.53
1:k:488:ASN:HA	1:k:500:VAL:HG23	1.91	0.53
1:k:575:PHE:CG	1:k:576:TRP:N	2.76	0.53
1:j:331:ILE:H	1:j:331:ILE:HD12	1.73	0.53
1:a:108:ASN:O	1:a:112:MET:N	2.26	0.53
1:e:306:LEU:HB3	1:e:314:SER:H	1.72	0.53
1:e:491:GLU:N	1:e:496:ARG:HH22	2.06	0.53
1:k:491:GLU:N	1:k:498:LYS:HB3	2.24	0.53
1:i:491:GLU:HG3	1:i:498:LYS:HG2	1.90	0.53
1:a:43:LYS:HD3	1:a:50:PHE:HA	1.90	0.53
1:a:127:ASP:HB3	1:a:134:GLY:HA2	1.89	0.53
1:c:506:ASN:OD1	1:c:508:ARG:HD3	2.09	0.53
1:h:560:LEU:O	1:h:564:THR:HG23	2.09	0.53
1:g:146:PRO:HB3	1:g:189:LYS:HG3	1.91	0.53
1:i:127:ASP:HB3	1:i:133:THR:O	2.09	0.53
1:i:350:ILE:HG22	1:i:354:LEU:HD23	1.90	0.53
1:a:37:GLN:OE1	1:a:132:LYS:NZ	2.42	0.53
1:b:532:MET:SD	1:b:533:ARG:N	2.82	0.53
1:d:421:ASP:O	1:d:425:ARG:N	2.42	0.53
1:d:490:GLU:HA	1:d:498:LYS:HB3	1.90	0.53
1:e:137:LYS:HA	1:e:322:PRO:O	2.09	0.53
1:f:140:VAL:HG11	1:f:192:ARG:HH12	1.74	0.53
1:g:468:ALA:O	1:g:472:VAL:HG23	2.09	0.53
1:k:492:VAL:HG22	1:a:92:ASP:HA	1.90	0.53
1:a:27:LEU:O	1:a:31:SER:CB	2.57	0.53
1:a:219:LEU:HB2	1:a:289:TYR:HB2	1.91	0.53
1:a:447:MET:HE3	1:a:528:MET:HE3	1.90	0.53
1:b:118:PHE:O	1:b:121:MET:HG3	2.09	0.53
1:b:411:VAL:HA	1:b:414:MET:HE1	1.91	0.53
1:b:575:PHE:CG	1:b:576:TRP:N	2.75	0.53
1:c:130:MET:O	1:c:130:MET:HE3	2.09	0.53
1:c:490:GLU:HA	1:c:498:LYS:HB3	1.91	0.53
1:c:526:GLN:O	1:c:530:HIS:HB3	2.09	0.53
1:d:143:VAL:HB	1:d:191:LYS:HB2	1.91	0.53
1:d:554:GLN:O	1:d:557:TYR:HB3	2.09	0.53
1:f:560:LEU:O	1:f:564:THR:HG23	2.08	0.53
1:h:527:GLN:NE2	1:h:563:VAL:HG13	2.22	0.53
1:h:553:GLU:OE2	1:h:578:ASN:ND2	2.41	0.53
1:h:586:GLN:HA	1:h:590:ILE:HG12	1.91	0.53
1:k:428:ILE:H	1:k:458:GLN:HE22	1.56	0.53
1:j:346:ASP:N	1:j:346:ASP:OD1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:532:MET:SD	1:i:533:ARG:N	2.81	0.53
1:b:146:PRO:HG3	1:b:189:LYS:HE3	1.90	0.53
1:b:393:VAL:HG23	1:b:394:LYS:N	2.24	0.53
1:d:428:ILE:H	1:d:458:GLN:HE22	1.57	0.53
1:h:213:ILE:HD13	1:h:323:PHE:HB2	1.91	0.53
1:g:73:MET:HE2	1:g:129:LEU:HD21	1.89	0.53
1:g:327:ASN:HB2	1:g:337:GLY:HA3	1.90	0.53
1:j:532:MET:SD	1:j:533:ARG:N	2.82	0.52
1:b:394:LYS:HG3	1:b:395:SER:N	2.24	0.52
1:b:530:HIS:O	1:b:534:ILE:HG12	2.09	0.52
1:c:476:PHE:HB2	1:c:510:ARG:CZ	2.38	0.52
1:c:528:MET:SD	1:c:529:LEU:N	2.82	0.52
1:f:465:ARG:NH1	1:f:513:LEU:HD13	2.24	0.52
1:h:119:LYS:NZ	1:h:123:ASP:OD1	2.41	0.52
1:a:451:GLN:HE22	1:a:525:ASP:HB2	1.75	0.52
1:b:376:GLN:HB3	1:b:394:LYS:HE3	1.90	0.52
1:c:91:PRO:HG2	1:c:96:ASP:OD1	2.10	0.52
1:c:95:GLU:HB3	1:c:507:TRP:CH2	2.44	0.52
1:e:465:ARG:NH2	1:e:512:ASP:O	2.43	0.52
1:h:49:PRO:HB3	1:h:53:GLU:HG3	1.90	0.52
1:h:426:THR:O	1:h:458:GLN:NE2	2.42	0.52
1:j:551:VAL:HG23	1:i:575:PHE:HE1	1.74	0.52
1:a:587:ALA:HA	1:a:591:ARG:HG2	1.92	0.52
1:b:447:MET:HE3	1:b:528:MET:HE3	1.92	0.52
1:d:534:ILE:HG21	1:d:559:ILE:HG23	1.90	0.52
1:e:99:GLN:O	1:e:103:GLU:N	2.26	0.52
1:h:110:LEU:HA	1:h:114:LYS:HB2	1.90	0.52
1:h:207:ASP:OD1	1:h:207:ASP:N	2.41	0.52
1:h:328:ALA:O	1:h:463:ILE:HD12	2.10	0.52
1:g:40:GLU:HA	1:g:43:LYS:NZ	2.25	0.52
1:g:558:ASN:OD1	1:g:561:LYS:NZ	2.26	0.52
1:k:216:ALA:O	1:k:321:ARG:NH1	2.42	0.52
1:k:528:MET:SD	1:k:529:LEU:HG	2.50	0.52
1:a:209:LEU:HB2	1:a:217:ARG:NH2	2.21	0.52
1:b:421:ASP:OD1	1:b:424:LYS:NZ	2.29	0.52
1:e:44:TYR:HD1	1:e:50:PHE:CD1	2.27	0.52
1:f:115:ASN:ND2	1:f:195:LYS:HA	2.25	0.52
1:h:346:ASP:N	1:h:346:ASP:OD1	2.41	0.52
1:g:527:GLN:HE22	1:g:563:VAL:HG13	1.74	0.52
1:i:541:VAL:O	1:i:546:GLY:N	2.36	0.52
1:a:143:VAL:HB	1:a:191:LYS:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:431:ARG:NH1	1:a:432:THR:OG1	2.43	0.52
1:a:576:TRP:CZ3	1:b:550:LEU:HD13	2.43	0.52
1:b:541:VAL:HG13	1:b:550:LEU:HD12	1.92	0.52
1:d:33:GLU:C	1:d:37:GLN:HE21	2.17	0.52
1:d:486:TYR:H	1:d:502:VAL:HG12	1.74	0.52
1:e:394:LYS:HG3	1:e:395:SER:N	2.22	0.52
1:h:137:LYS:HA	1:h:322:PRO:O	2.08	0.52
1:h:577:THR:HG23	1:h:578:ASN:H	1.75	0.52
1:g:330:ARG:HD2	1:g:466:MET:HE2	1.91	0.52
1:j:19:LEU:HD11	1:j:290:THR:HG21	1.90	0.52
1:j:29:PHE:CE2	1:j:208:ARG:HD2	2.44	0.52
1:j:561:LYS:O	1:j:564:THR:N	2.42	0.52
1:b:75:SER:HA	1:b:78:LYS:HE2	1.91	0.52
1:b:146:PRO:HG3	1:b:189:LYS:HG3	1.90	0.52
1:f:64:ASP:HB3	1:f:348:GLN:HB2	1.91	0.52
1:h:116:GLU:OE1	1:h:120:VAL:HG13	2.08	0.52
1:h:528:MET:O	1:h:531:LEU:HG	2.09	0.52
1:h:588:LYS:HG3	1:h:591:ARG:HH21	1.74	0.52
1:g:34:LEU:HB3	1:g:38:ARG:NH2	2.23	0.52
1:g:107:VAL:O	1:g:111:PHE:HB2	2.10	0.52
1:k:11:ASP:HB2	1:k:294:VAL:HG12	1.91	0.52
1:k:49:PRO:HA	1:k:61:VAL:HG21	1.91	0.52
1:k:548:GLY:HA2	1:k:552:SER:HA	1.91	0.52
1:k:576:TRP:CZ3	1:a:550:LEU:HD13	2.41	0.52
1:d:503:ASN:N	1:d:504:PRO:HD3	2.24	0.52
1:d:561:LYS:NZ	1:d:574:ARG:O	2.40	0.52
1:e:578:ASN:OD1	1:e:584:ALA:HA	2.10	0.52
1:h:230:LEU:HD11	1:h:283:VAL:HG11	1.90	0.52
1:h:233:LEU:HD22	1:h:235:VAL:HG13	1.90	0.52
1:k:71:TRP:HH2	1:k:432:THR:HG22	1.74	0.52
1:j:329:TYR:HB2	1:j:331:ILE:HD11	1.91	0.52
1:j:523:ASN:O	1:j:527:GLN:HB3	2.10	0.52
1:i:145:LYS:HD2	1:i:145:LYS:O	2.09	0.52
1:i:485:LYS:HD2	1:i:502:VAL:HG11	1.92	0.52
1:a:27:LEU:O	1:a:31:SER:HB2	2.10	0.52
1:b:73:MET:HE1	1:b:125:PHE:HB2	1.90	0.52
1:b:541:VAL:O	1:b:545:GLY:N	2.36	0.52
1:d:226:THR:HA	1:d:283:VAL:HG12	1.90	0.52
1:d:498:LYS:NZ	1:d:499:TRP:O	2.40	0.52
1:e:472:VAL:HG12	1:e:510:ARG:HH21	1.74	0.52
1:e:569:TYR:CD2	1:e:573:ASP:HB3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:227:VAL:HG21	1:g:281:ARG:HH11	1.74	0.52
1:k:227:VAL:HG21	1:k:281:ARG:HH11	1.75	0.52
1:k:496:ARG:HH21	1:a:94:ALA:N	2.02	0.52
1:j:49:PRO:HA	1:j:61:VAL:HG21	1.91	0.52
1:a:33:GLU:O	1:a:36:LYS:HG2	2.09	0.52
1:a:58:SER:HB2	1:a:60:ILE:HG12	1.92	0.52
1:a:370:SER:HA	1:a:401:PRO:HA	1.91	0.52
1:c:146:PRO:HG3	1:c:189:LYS:HG3	1.91	0.52
1:d:138:VAL:HG22	1:d:196:VAL:HB	1.91	0.52
1:d:324:ALA:HB2	1:d:474:ARG:HD2	1.92	0.52
1:d:393:VAL:HG23	1:d:394:LYS:N	2.24	0.52
1:e:581:SER:N	1:e:584:ALA:HB3	2.23	0.52
1:h:18:HIS:ND1	1:h:292:LEU:HD11	2.25	0.52
1:h:581:SER:N	1:h:584:ALA:HB3	2.24	0.52
1:g:330:ARG:HB2	1:g:466:MET:HG3	1.92	0.52
1:k:91:PRO:HG3	1:k:96:ASP:HA	1.92	0.52
1:k:298:GLY:HA2	1:j:231:ARG:HD3	1.91	0.52
1:j:72:ILE:HD11	1:j:129:LEU:HD22	1.92	0.52
1:i:581:SER:HB2	1:i:582:PRO:HD2	1.91	0.52
1:a:147:THR:HG22	1:a:186:ARG:H	1.75	0.52
1:b:72:ILE:HG13	1:b:73:MET:N	2.25	0.52
1:c:528:MET:SD	1:c:529:LEU:HG	2.50	0.52
1:d:477:GLN:NE2	1:d:481:ASP:OD2	2.40	0.52
1:e:33:GLU:O	1:e:36:LYS:HG2	2.09	0.52
1:e:210:ALA:HB3	1:e:335:PHE:HD1	1.74	0.52
1:e:289:TYR:HE2	1:e:322:PRO:HD2	1.75	0.52
1:e:503:ASN:N	1:e:504:PRO:HD3	2.24	0.52
1:h:126:GLN:HG2	1:h:130:MET:HE1	1.91	0.52
1:g:235:VAL:HG12	1:g:312:ILE:HD12	1.92	0.52
1:k:574:ARG:HD3	1:k:576:TRP:HE1	1.75	0.51
1:j:75:SER:HA	1:j:78:LYS:HE2	1.92	0.51
1:c:485:LYS:HA	1:c:502:VAL:HG12	1.92	0.51
1:j:74:PRO:HB2	1:j:78:LYS:NZ	2.24	0.51
1:a:34:LEU:C	1:a:38:ARG:HE	2.18	0.51
1:a:134:GLY:O	1:a:326:LEU:N	2.33	0.51
1:c:379:LEU:HD23	1:c:379:LEU:H	1.75	0.51
1:c:532:MET:SD	1:c:533:ARG:N	2.83	0.51
1:h:143:VAL:HB	1:h:191:LYS:HB2	1.92	0.51
1:h:451:GLN:HE22	1:h:525:ASP:N	2.08	0.51
1:g:346:ASP:N	1:g:346:ASP:OD1	2.44	0.51
1:j:213:ILE:HD11	1:j:323:PHE:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:549:VAL:HG23	1:i:587:ALA:HA	1.92	0.51
1:j:591:ARG:HD2	1:j:592:GLU:HB2	1.91	0.51
1:i:213:ILE:HG21	1:i:473:LYS:HE2	1.92	0.51
1:a:492:VAL:HG22	1:b:92:ASP:HA	1.93	0.51
1:c:27:LEU:O	1:c:31:SER:CB	2.58	0.51
1:c:555:ASN:HA	1:c:558:ASN:ND2	2.26	0.51
1:d:90:GLU:HB3	1:d:509:GLU:OE1	2.10	0.51
1:d:235:VAL:HG12	1:d:312:ILE:HD12	1.91	0.51
1:d:492:VAL:HA	1:d:496:ARG:NH2	2.25	0.51
1:f:484:ILE:HG23	1:f:485:LYS:H	1.75	0.51
1:h:587:ALA:O	1:h:591:ARG:NE	2.42	0.51
1:k:475:LEU:HD23	1:k:478:LEU:HD21	1.92	0.51
1:i:105:GLU:HG3	1:i:493:PHE:CD1	2.45	0.51
1:i:346:ASP:OD1	1:i:347:ILE:N	2.43	0.51
1:a:116:GLU:OE2	1:a:119:LYS:HB3	2.09	0.51
1:b:127:ASP:HB3	1:b:133:THR:O	2.10	0.51
1:b:221:HIS:NE2	1:b:223:GLU:OE2	2.42	0.51
1:c:116:GLU:OE2	1:c:120:VAL:HG22	2.11	0.51
1:d:521:ASN:O	1:d:526:GLN:HB2	2.11	0.51
1:h:33:GLU:O	1:h:36:LYS:HG3	2.11	0.51
1:h:191:LYS:HG3	1:h:487:GLN:NE2	2.25	0.51
1:k:351:ARG:O	1:k:355:MET:HE3	2.10	0.51
1:i:141:GLU:HB2	1:i:193:GLU:OE2	2.11	0.51
1:a:329:TYR:HB2	1:a:331:ILE:HD11	1.92	0.51
1:b:69:VAL:HA	1:b:72:ILE:HG12	1.91	0.51
1:b:189:LYS:O	1:b:190:LYS:HG2	2.11	0.51
1:d:99:GLN:HB2	1:d:507:TRP:CZ2	2.45	0.51
1:f:44:TYR:HB2	1:f:341:TYR:HE1	1.75	0.51
1:h:34:LEU:HD11	1:h:336:HIS:HB3	1.93	0.51
1:h:89:TYR:CE1	1:h:510:ARG:HG3	2.46	0.51
1:j:88:LYS:N	1:j:511:SER:O	2.43	0.51
1:j:221:HIS:NE2	1:j:223:GLU:OE2	2.42	0.51
1:i:563:VAL:O	1:i:567:ALA:N	2.43	0.51
1:a:503:ASN:N	1:a:504:PRO:HD3	2.25	0.51
1:b:583:GLU:O	1:b:587:ALA:CB	2.50	0.51
1:d:376:GLN:HB3	1:d:394:LYS:HE3	1.92	0.51
1:d:528:MET:SD	1:d:529:LEU:N	2.84	0.51
1:d:530:HIS:CE1	1:d:562:GLU:HB2	2.46	0.51
1:d:557:TYR:CE1	1:d:561:LYS:HE2	2.46	0.51
1:d:558:ASN:HA	1:d:561:LYS:HB2	1.92	0.51
1:e:97:VAL:HA	1:e:101:GLU:OE2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:351:ARG:O	1:i:354:LEU:HG	2.11	0.51
1:i:537:MET:HE3	1:h:576:TRP:CZ2	2.46	0.51
1:a:278:GLU:O	1:a:281:ARG:NH1	2.44	0.51
1:f:222:ARG:HB3	1:f:284:TRP:NE1	2.24	0.51
1:k:189:LYS:O	1:k:190:LYS:HG2	2.10	0.51
1:k:194:ILE:HB	1:k:482:HIS:CE1	2.45	0.51
1:j:96:ASP:OD1	1:j:97:VAL:N	2.36	0.51
1:b:27:LEU:O	1:b:31:SER:CB	2.59	0.51
1:b:560:LEU:HB3	1:c:537:MET:HE3	1.92	0.51
1:d:465:ARG:HD2	1:d:516:THR:HG21	1.93	0.51
1:f:189:LYS:HD3	1:f:190:LYS:HZ2	1.76	0.51
1:g:18:HIS:ND1	1:g:292:LEU:HD11	2.26	0.51
1:k:193:GLU:HA	1:k:486:TYR:CE1	2.46	0.51
1:j:129:LEU:O	1:j:130:MET:HE2	2.11	0.51
1:j:559:ILE:HG12	1:i:574:ARG:HH22	1.75	0.51
1:a:302:LEU:HB3	1:a:318:TRP:HB3	1.93	0.51
1:e:528:MET:SD	1:e:529:LEU:N	2.84	0.51
1:h:31:SER:O	1:h:35:SER:CB	2.55	0.51
1:h:192:ARG:HH21	1:h:485:LYS:HB3	1.75	0.51
1:g:493:PHE:O	1:g:495:LEU:HD23	2.10	0.51
1:j:285:ALA:HA	1:j:308:VAL:HG13	1.92	0.51
1:i:465:ARG:NH1	1:i:513:LEU:HA	2.16	0.51
1:a:9:PRO:HA	1:a:296:GLY:H	1.75	0.51
1:a:120:VAL:HG23	1:a:121:MET:SD	2.51	0.51
1:b:558:ASN:HA	1:b:561:LYS:HB2	1.91	0.51
1:c:194:ILE:HB	1:c:482:HIS:CE1	2.46	0.51
1:c:305:ILE:HG23	1:c:313:ILE:HD12	1.92	0.51
1:c:328:ALA:HA	1:c:467:PHE:CE1	2.45	0.51
1:d:465:ARG:NH2	1:d:512:ASP:O	2.41	0.51
1:d:485:LYS:HA	1:d:502:VAL:HG12	1.93	0.51
1:d:576:TRP:CZ3	1:e:550:LEU:HD13	2.45	0.51
1:e:239:VAL:HG23	1:e:241:GLU:HG3	1.93	0.51
1:e:344:ILE:HD11	1:e:426:THR:HG23	1.91	0.51
1:f:15:VAL:HG23	1:f:16:LEU:HD12	1.93	0.51
1:f:466:MET:O	1:f:469:GLU:HG2	2.11	0.51
1:k:111:PHE:HA	1:k:115:ASN:HB2	1.93	0.50
1:k:414:MET:SD	1:k:414:MET:N	2.84	0.50
1:j:331:ILE:HD13	1:j:337:GLY:CA	2.41	0.50
1:i:306:LEU:HB3	1:i:314:SER:H	1.75	0.50
1:c:76:LEU:HA	1:c:79:VAL:HG12	1.93	0.50
1:e:463:ILE:O	1:e:466:MET:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:478:LEU:O	1:g:482:HIS:ND1	2.37	0.50
1:k:554:GLN:OE1	1:k:579:PRO:HA	2.11	0.50
1:j:15:VAL:HG23	1:j:16:LEU:HD12	1.92	0.50
1:b:77:MET:O	1:b:81:THR:OG1	2.24	0.50
1:b:561:LYS:HZ1	1:b:571:ASP:HA	1.76	0.50
1:d:33:GLU:O	1:d:36:LYS:HG2	2.10	0.50
1:d:69:VAL:HA	1:d:72:ILE:HG12	1.94	0.50
1:e:289:TYR:CE2	1:e:322:PRO:HD2	2.47	0.50
1:f:189:LYS:HD3	1:f:190:LYS:NZ	2.26	0.50
1:f:328:ALA:HA	1:f:467:PHE:HE1	1.76	0.50
1:h:433:ARG:CZ	1:h:455:ALA:HB1	2.41	0.50
1:g:88:LYS:O	1:g:511:SER:N	2.41	0.50
1:k:33:GLU:O	1:k:36:LYS:HG2	2.11	0.50
1:j:480:HIS:O	1:j:484:ILE:HG22	2.11	0.50
1:j:527:GLN:HE22	1:j:563:VAL:HG22	1.76	0.50
1:j:583:GLU:HG2	1:j:584:ALA:N	2.27	0.50
1:i:18:HIS:CE1	1:i:292:LEU:HD21	2.47	0.50
1:i:500:VAL:HG22	1:i:502:VAL:H	1.77	0.50
1:a:70:ASP:HA	1:a:73:MET:HE3	1.92	0.50
1:a:74:PRO:HB2	1:a:78:LYS:HZ3	1.76	0.50
1:a:213:ILE:HG12	1:a:473:LYS:HE2	1.94	0.50
1:b:128:THR:HG23	1:b:328:ALA:HB2	1.93	0.50
1:b:138:VAL:HB	1:b:322:PRO:HB2	1.93	0.50
1:c:11:ASP:HB3	1:c:14:GLN:HG3	1.93	0.50
1:c:488:ASN:HA	1:c:500:VAL:HG23	1.93	0.50
1:d:98:GLU:N	1:d:98:GLU:OE1	2.43	0.50
1:d:318:TRP:NE1	1:d:320:CYS:O	2.44	0.50
1:e:110:LEU:HA	1:e:114:LYS:HD3	1.94	0.50
1:e:129:LEU:C	1:e:339:SER:HG	2.18	0.50
1:e:290:THR:O	1:e:303:ARG:HB2	2.12	0.50
1:f:87:VAL:HG22	1:f:512:ASP:HB3	1.93	0.50
1:f:557:TYR:CE1	1:f:577:THR:HA	2.46	0.50
1:h:145:LYS:O	1:h:145:LYS:HD2	2.12	0.50
1:k:193:GLU:HA	1:k:486:TYR:HE1	1.75	0.50
1:i:14:GLN:HA	1:i:17:ARG:HG2	1.94	0.50
1:i:278:GLU:HG3	1:i:280:ASN:H	1.76	0.50
1:b:327:ASN:HB2	1:b:337:GLY:HA3	1.93	0.50
1:b:488:ASN:HA	1:b:500:VAL:HG23	1.93	0.50
1:b:581:SER:HB2	1:b:582:PRO:HD2	1.93	0.50
1:c:49:PRO:HB3	1:c:53:GLU:CG	2.41	0.50
1:c:554:GLN:O	1:c:557:TYR:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:587:ALA:O	1:c:591:ARG:NE	2.36	0.50
1:d:569:TYR:OH	1:e:534:ILE:HD11	2.11	0.50
1:e:346:ASP:N	1:e:346:ASP:OD1	2.43	0.50
1:h:554:GLN:O	1:h:557:TYR:HB3	2.12	0.50
1:k:230:LEU:HD11	1:k:283:VAL:HG11	1.92	0.50
1:k:451:GLN:HE22	1:k:525:ASP:HB2	1.75	0.50
1:i:129:LEU:O	1:i:130:MET:HE2	2.11	0.50
1:a:474:ARG:NH1	1:a:477:GLN:HG2	2.24	0.50
1:a:587:ALA:HB1	1:b:549:VAL:HG23	1.94	0.50
1:b:15:VAL:HG23	1:b:16:LEU:HD12	1.94	0.50
1:d:136:VAL:O	1:d:323:PHE:HA	2.12	0.50
1:f:302:LEU:HD11	1:f:321:ARG:HE	1.76	0.50
1:f:503:ASN:N	1:f:504:PRO:HD3	2.26	0.50
1:h:135:VAL:HG21	1:h:204:PHE:CE2	2.46	0.50
1:k:100:ALA:O	1:k:104:THR:OG1	2.21	0.50
1:i:27:LEU:O	1:i:31:SER:HB2	2.12	0.50
1:b:34:LEU:HD11	1:b:336:HIS:HB3	1.93	0.50
1:b:89:TYR:HE2	1:b:103:GLU:HB2	1.76	0.50
1:e:60:ILE:HB	1:e:359:MET:HE1	1.94	0.50
1:h:569:TYR:CD2	1:h:573:ASP:HB3	2.46	0.50
1:k:203:ASN:HA	1:k:222:ARG:HD3	1.94	0.50
1:j:457:GLU:OE1	1:i:78:LYS:HE3	2.10	0.50
1:j:482:HIS:HD2	1:j:486:TYR:CG	2.29	0.50
1:i:583:GLU:O	1:i:587:ALA:N	2.45	0.50
1:d:500:VAL:HG22	1:d:502:VAL:H	1.76	0.50
1:e:106:TYR:OH	1:e:489:GLN:HG3	2.12	0.50
1:e:109:TYR:HA	1:e:113:ARG:CZ	2.42	0.50
1:h:22:LEU:HD11	1:h:217:ARG:HH12	1.75	0.50
1:h:64:ASP:N	1:h:348:GLN:OE1	2.44	0.50
1:h:200:LYS:O	1:h:202:GLU:N	2.45	0.50
1:g:88:LYS:HG2	1:g:89:TYR:H	1.76	0.50
1:g:131:MET:HE1	1:g:201:PRO:HD2	1.93	0.50
1:g:446:ALA:HB1	1:g:449:VAL:HG13	1.94	0.50
1:b:27:LEU:O	1:b:31:SER:HB2	2.12	0.50
1:b:329:TYR:HB2	1:b:331:ILE:HD11	1.93	0.50
1:b:417:ARG:O	1:b:421:ASP:N	2.33	0.50
1:b:528:MET:SD	1:b:529:LEU:N	2.85	0.50
1:b:581:SER:H	1:b:584:ALA:HB3	1.77	0.50
1:f:68:THR:HG21	1:f:344:ILE:HG13	1.93	0.50
1:f:136:VAL:O	1:f:323:PHE:HA	2.11	0.50
1:h:482:HIS:HD2	1:h:486:TYR:CG	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:465:ARG:NH1	1:j:513:LEU:HA	2.24	0.50
1:i:446:ALA:HB1	1:i:449:VAL:HG13	1.93	0.50
1:i:527:GLN:HE22	1:i:563:VAL:HG13	1.77	0.50
1:a:303:ARG:HH21	1:a:316:GLU:N	2.09	0.50
1:a:551:VAL:HG23	1:a:555:ASN:HB3	1.94	0.50
1:b:88:LYS:HG3	1:b:89:TYR:H	1.75	0.50
1:c:226:THR:HA	1:c:283:VAL:HG12	1.93	0.50
1:e:89:TYR:CE1	1:e:510:ARG:HG3	2.47	0.50
1:e:208:ARG:HG3	1:e:336:HIS:ND1	2.26	0.50
1:e:477:GLN:NE2	1:e:481:ASP:OD2	2.39	0.50
1:h:318:TRP:NE1	1:h:320:CYS:O	2.44	0.50
1:k:222:ARG:HB3	1:k:284:TRP:HE1	1.76	0.49
1:k:563:VAL:HG12	1:a:533:ARG:HE	1.76	0.49
1:i:327:ASN:HB2	1:i:337:GLY:HA3	1.93	0.49
1:i:328:ALA:C	1:i:466:MET:HE1	2.37	0.49
1:a:394:LYS:HG3	1:a:395:SER:N	2.27	0.49
1:c:576:TRP:CH2	1:d:541:VAL:HG21	2.47	0.49
1:d:135:VAL:HG12	1:d:201:PRO:HB3	1.93	0.49
1:d:473:LYS:HE3	1:d:474:ARG:NH2	2.27	0.49
1:f:532:MET:SD	1:f:533:ARG:N	2.85	0.49
1:h:140:VAL:HG12	1:h:194:ILE:HG13	1.93	0.49
1:h:147:THR:HG22	1:h:186:ARG:HD3	1.94	0.49
1:h:476:PHE:HE1	1:h:506:ASN:HD22	1.60	0.49
1:g:450:ASN:HA	1:g:525:ASP:CG	2.37	0.49
1:g:465:ARG:NH2	1:g:469:GLU:OE2	2.44	0.49
1:k:11:ASP:HB3	1:k:14:GLN:HG3	1.94	0.49
1:k:447:MET:HE3	1:k:528:MET:HE3	1.92	0.49
1:j:138:VAL:HG21	1:j:478:LEU:HD21	1.94	0.49
1:i:491:GLU:H	1:i:498:LYS:HB3	1.77	0.49
1:b:99:GLN:HB3	1:b:103:GLU:HG2	1.94	0.49
1:b:561:LYS:NZ	1:b:570:LYS:O	2.31	0.49
1:c:77:MET:O	1:c:81:THR:OG1	2.18	0.49
1:e:11:ASP:HB2	1:e:294:VAL:HG12	1.93	0.49
1:e:136:VAL:O	1:e:323:PHE:HA	2.12	0.49
1:f:194:ILE:HG12	1:f:481:ASP:HB3	1.93	0.49
1:f:556:LEU:HA	1:f:559:ILE:HB	1.93	0.49
1:g:557:TYR:O	1:g:561:LYS:HD3	2.11	0.49
1:j:41:ALA:HA	1:j:341:TYR:CD1	2.47	0.49
1:a:500:VAL:HG22	1:a:502:VAL:H	1.78	0.49
1:e:551:VAL:HG23	1:e:555:ASN:HB3	1.94	0.49
1:f:523:ASN:ND2	1:f:566:ASN:O	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:115:ASN:C	1:k:116:GLU:HG3	2.37	0.49
1:j:33:GLU:C	1:j:37:GLN:HE21	2.21	0.49
1:j:577:THR:HG23	1:j:578:ASN:H	1.76	0.49
1:i:88:LYS:HG2	1:i:89:TYR:H	1.77	0.49
1:i:135:VAL:HG23	1:i:325:ASP:H	1.76	0.49
1:i:358:ILE:HG21	1:i:412:TYR:CE1	2.48	0.49
1:a:491:GLU:N	1:a:498:LYS:HB3	2.27	0.49
1:e:204:PHE:HZ	1:e:219:LEU:HD23	1.76	0.49
1:f:147:THR:HG22	1:f:186:ARG:H	1.77	0.49
1:f:210:ALA:HB3	1:f:335:PHE:CD1	2.47	0.49
1:h:191:LYS:HG3	1:h:487:GLN:CD	2.37	0.49
1:h:305:ILE:HG23	1:h:313:ILE:HD12	1.95	0.49
1:h:362:ILE:HG12	1:h:407:LEU:HD21	1.94	0.49
1:a:224:LYS:NZ	1:a:282:GLU:O	2.45	0.49
1:b:124:TRP:CZ2	1:b:324:ALA:HB1	2.48	0.49
1:b:292:LEU:O	1:b:300:SER:OG	2.21	0.49
1:b:303:ARG:HH21	1:b:316:GLU:N	2.11	0.49
1:d:210:ALA:HB3	1:d:335:PHE:HD1	1.77	0.49
1:f:565:GLU:HA	1:f:570:LYS:HG3	1.93	0.49
1:f:574:ARG:NH2	1:g:555:ASN:OD1	2.46	0.49
1:k:549:VAL:HG23	1:j:587:ALA:HA	1.94	0.49
1:k:561:LYS:O	1:k:562:GLU:C	2.55	0.49
1:k:576:TRP:CH2	1:a:541:VAL:HG21	2.45	0.49
1:j:131:MET:HE1	1:j:202:GLU:HG3	1.95	0.49
1:a:574:ARG:NE	1:a:576:TRP:HE1	2.02	0.49
1:b:537:MET:O	1:b:541:VAL:HG23	2.13	0.49
1:c:15:VAL:HG23	1:c:16:LEU:HD12	1.93	0.49
1:c:541:VAL:O	1:c:545:GLY:N	2.41	0.49
1:e:226:THR:HA	1:e:283:VAL:HG12	1.94	0.49
1:e:561:LYS:HD2	1:e:565:GLU:OE2	2.12	0.49
1:h:27:LEU:O	1:h:31:SER:HB2	2.13	0.49
1:k:189:LYS:O	1:k:191:LYS:HD2	2.12	0.49
1:k:347:ILE:HG23	1:k:418:LEU:HD22	1.95	0.49
1:k:532:MET:O	1:k:536:GLU:HG3	2.13	0.49
1:k:535:TRP:O	1:k:539:GLN:HG2	2.12	0.49
1:a:561:LYS:O	1:a:562:GLU:C	2.55	0.49
1:c:138:VAL:H	1:c:322:PRO:HB2	1.76	0.49
1:c:564:THR:HA	1:d:533:ARG:HH22	1.77	0.49
1:c:576:TRP:CZ3	1:d:550:LEU:HD13	2.47	0.49
1:d:15:VAL:HG23	1:d:16:LEU:HD12	1.95	0.49
1:d:319:ASP:OD1	1:d:319:ASP:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:583:GLU:O	1:h:587:ALA:HB2	2.13	0.49
1:g:132:LYS:HE3	1:g:338:MET:HA	1.94	0.49
1:a:463:ILE:HG22	1:a:467:PHE:CZ	2.48	0.49
1:a:575:PHE:O	1:a:577:THR:N	2.45	0.49
1:b:98:GLU:OE1	1:b:98:GLU:N	2.42	0.49
1:b:135:VAL:HG12	1:b:201:PRO:HB3	1.94	0.49
1:b:379:LEU:HD12	1:b:382:LEU:HG	1.94	0.49
1:c:288:CYS:HB3	1:c:305:ILE:HB	1.95	0.49
1:c:561:LYS:O	1:c:562:GLU:C	2.55	0.49
1:d:551:VAL:CG2	1:d:555:ASN:HB3	2.43	0.49
1:e:89:TYR:CD2	1:e:507:TRP:HD1	2.31	0.49
1:e:414:MET:HE3	1:e:418:LEU:HG	1.94	0.49
1:h:27:LEU:O	1:h:31:SER:CB	2.60	0.49
1:h:88:LYS:N	1:h:511:SER:O	2.44	0.49
1:k:89:TYR:CD2	1:k:100:ALA:HA	2.47	0.49
1:j:559:ILE:HA	1:j:562:GLU:OE1	2.12	0.49
1:i:24:ASN:HA	1:i:27:LEU:HD12	1.94	0.49
1:a:194:ILE:HD13	1:a:482:HIS:CD2	2.48	0.49
1:b:477:GLN:HE21	1:b:481:ASP:CG	2.20	0.49
1:c:99:GLN:O	1:c:103:GLU:N	2.23	0.49
1:d:583:GLU:O	1:d:587:ALA:CB	2.53	0.49
1:e:216:ALA:O	1:e:321:ARG:NH1	2.43	0.49
1:e:379:LEU:HD23	1:e:379:LEU:H	1.77	0.49
1:e:519:ILE:O	1:e:521:ASN:N	2.45	0.49
1:h:285:ALA:HB2	1:h:308:VAL:HG13	1.94	0.49
1:g:358:ILE:HG13	1:g:407:LEU:HD13	1.94	0.49
1:k:461:ASP:HB3	1:k:517:VAL:CG2	2.42	0.49
1:j:111:PHE:CE2	1:j:112:MET:HE3	2.48	0.49
1:j:327:ASN:HB2	1:j:337:GLY:HA3	1.94	0.49
1:j:527:GLN:NE2	1:j:563:VAL:HG13	2.28	0.49
1:i:227:VAL:HG21	1:i:281:ARG:HH11	1.78	0.49
1:i:361:ASN:HA	1:i:364:ARG:HG2	1.95	0.49
1:a:496:ARG:HH22	1:b:92:ASP:HB2	1.76	0.49
1:b:334:LYS:NZ	1:b:336:HIS:O	2.32	0.49
1:b:379:LEU:H	1:b:379:LEU:HD23	1.77	0.49
1:d:19:LEU:HD21	1:d:305:ILE:HG13	1.94	0.49
1:d:120:VAL:HG23	1:d:121:MET:SD	2.53	0.49
1:d:379:LEU:HD23	1:d:379:LEU:H	1.78	0.49
1:d:535:TRP:HZ2	1:e:537:MET:HG3	1.78	0.49
1:e:127:ASP:HB3	1:e:133:THR:O	2.13	0.49
1:e:496:ARG:HE	1:e:497:GLY:H	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:529:LEU:O	1:e:533:ARG:HG2	2.13	0.49
1:f:74:PRO:HB2	1:f:78:LYS:HZ3	1.78	0.49
1:h:13:GLU:OE2	1:h:17:ARG:NH1	2.46	0.49
1:h:92:ASP:OD1	1:h:92:ASP:N	2.43	0.49
1:g:19:LEU:HD11	1:g:290:THR:HG21	1.95	0.49
1:g:217:ARG:HG3	1:g:291:LEU:HD21	1.94	0.49
1:g:558:ASN:HA	1:g:561:LYS:CE	2.42	0.49
1:j:93:THR:OG1	1:i:496:ARG:NE	2.46	0.48
1:j:301:GLU:OE2	1:j:317:PRO:HB2	2.13	0.48
1:a:345:ARG:HD2	1:a:346:ASP:N	2.28	0.48
1:a:549:VAL:HG13	1:a:550:LEU:H	1.77	0.48
1:b:557:TYR:HE1	1:b:575:PHE:O	1.96	0.48
1:c:100:ALA:HA	1:c:507:TRP:HE1	1.78	0.48
1:c:188:ASP:HA	1:c:191:LYS:HZ3	1.78	0.48
1:c:394:LYS:HG3	1:c:395:SER:N	2.26	0.48
1:c:503:ASN:N	1:c:504:PRO:HD3	2.28	0.48
1:d:74:PRO:HB2	1:d:78:LYS:HZ3	1.78	0.48
1:e:134:GLY:O	1:e:326:LEU:N	2.32	0.48
1:h:327:ASN:HB2	1:h:331:ILE:HD13	1.94	0.48
1:k:110:LEU:HA	1:k:114:LYS:HE2	1.94	0.48
1:k:126:GLN:HA	1:k:129:LEU:HG	1.94	0.48
1:k:583:GLU:O	1:k:587:ALA:HB2	2.11	0.48
1:j:570:LYS:HG3	1:j:571:ASP:H	1.78	0.48
1:a:331:ILE:HG22	1:a:332:ALA:N	2.28	0.48
1:b:34:LEU:HD12	1:b:38:ARG:HH21	1.78	0.48
1:b:414:MET:O	1:b:417:ARG:HG2	2.13	0.48
1:c:19:LEU:HD21	1:c:305:ILE:HG13	1.95	0.48
1:c:569:TYR:CD2	1:c:573:ASP:HB3	2.48	0.48
1:h:588:LYS:HA	1:h:591:ARG:HE	1.77	0.48
1:g:239:VAL:HG11	1:g:309:GLY:HA3	1.95	0.48
1:j:37:GLN:OE1	1:j:132:LYS:NZ	2.47	0.48
1:i:34:LEU:HD11	1:i:336:HIS:HB3	1.95	0.48
1:i:334:LYS:NZ	1:i:336:HIS:O	2.35	0.48
1:c:98:GLU:OE1	1:c:98:GLU:N	2.41	0.48
1:d:110:LEU:HA	1:d:114:LYS:HB2	1.94	0.48
1:d:512:ASP:OD1	1:d:512:ASP:N	2.47	0.48
1:e:65:VAL:HG12	1:e:344:ILE:HB	1.96	0.48
1:e:557:TYR:CE1	1:e:577:THR:HA	2.47	0.48
1:f:129:LEU:HD12	1:f:130:MET:HG2	1.94	0.48
1:f:216:ALA:O	1:f:321:ARG:NH1	2.46	0.48
1:k:143:VAL:HB	1:k:191:LYS:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:293:ASP:N	1:k:293:ASP:OD1	2.46	0.48
1:j:322:PRO:HA	1:j:474:ARG:NH1	2.27	0.48
1:i:355:MET:HA	1:i:358:ILE:HD12	1.95	0.48
1:a:63:ARG:O	1:b:425:ARG:NH2	2.46	0.48
1:a:450:ASN:HA	1:a:525:ASP:CG	2.38	0.48
1:e:112:MET:C	1:e:113:ARG:HD3	2.38	0.48
1:k:189:LYS:H	1:k:191:LYS:NZ	2.11	0.48
1:j:472:VAL:HG12	1:j:510:ARG:HH21	1.77	0.48
1:j:587:ALA:HA	1:j:591:ARG:HG2	1.96	0.48
1:i:414:MET:O	1:i:417:ARG:HG3	2.13	0.48
1:a:80:PHE:CZ	1:a:121:MET:HG2	2.48	0.48
1:a:330:ARG:HB2	1:a:466:MET:HE3	1.95	0.48
1:b:205:LEU:HB2	1:b:220:CYS:HB3	1.95	0.48
1:b:576:TRP:CZ3	1:c:550:LEU:HD13	2.49	0.48
1:c:145:LYS:O	1:c:188:ASP:HB2	2.13	0.48
1:c:331:ILE:HG12	1:c:338:MET:HG3	1.95	0.48
1:c:351:ARG:O	1:c:354:LEU:HG	2.13	0.48
1:f:189:LYS:H	1:f:191:LYS:HZ2	1.60	0.48
1:f:498:LYS:NZ	1:f:499:TRP:O	2.34	0.48
1:h:556:LEU:HA	1:h:559:ILE:HB	1.94	0.48
1:k:331:ILE:H	1:k:331:ILE:HD12	1.78	0.48
1:j:302:LEU:O	1:j:318:TRP:N	2.25	0.48
1:j:527:GLN:NE2	1:j:531:LEU:HB3	2.27	0.48
1:j:555:ASN:OD1	1:j:558:ASN:HB2	2.13	0.48
1:i:69:VAL:HA	1:i:72:ILE:HG12	1.94	0.48
1:i:331:ILE:HG22	1:i:332:ALA:H	1.78	0.48
1:a:14:GLN:HA	1:a:17:ARG:HG2	1.95	0.48
1:b:527:GLN:OE1	1:b:563:VAL:HA	2.14	0.48
1:b:574:ARG:C	1:b:576:TRP:HD1	2.21	0.48
1:c:211:THR:H	1:c:335:PHE:HD1	1.61	0.48
1:f:97:VAL:HA	1:f:101:GLU:OE2	2.14	0.48
1:k:355:MET:HE2	1:k:355:MET:HB3	1.73	0.48
1:j:54:ARG:NH2	1:j:57:LYS:HG2	2.28	0.48
1:j:550:LEU:HD23	1:j:550:LEU:HA	1.74	0.48
1:i:491:GLU:N	1:i:498:LYS:HB3	2.29	0.48
1:a:74:PRO:HB3	1:b:462:LEU:HD11	1.96	0.48
1:a:393:VAL:HG23	1:a:394:LYS:N	2.26	0.48
1:a:417:ARG:HH22	1:a:424:LYS:HD3	1.78	0.48
1:a:530:HIS:O	1:a:534:ILE:HG12	2.13	0.48
1:b:200:LYS:O	1:b:202:GLU:N	2.47	0.48
1:c:34:LEU:HD11	1:c:336:HIS:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:477:GLN:NE2	1:c:481:ASP:OD2	2.41	0.48
1:e:478:LEU:O	1:e:482:HIS:ND1	2.33	0.48
1:e:589:ALA:O	1:e:593:GLN:HG2	2.13	0.48
1:f:446:ALA:HB1	1:f:449:VAL:HG13	1.96	0.48
1:k:482:HIS:HD2	1:k:486:TYR:CG	2.32	0.48
1:b:219:LEU:HD21	1:b:321:ARG:HD3	1.96	0.48
1:b:582:PRO:O	1:b:586:GLN:HG3	2.13	0.48
1:f:126:GLN:HA	1:f:129:LEU:HG	1.95	0.48
1:k:74:PRO:O	1:k:77:MET:HG3	2.14	0.48
1:k:211:THR:HA	1:k:335:PHE:HA	1.96	0.48
1:j:583:GLU:HA	1:j:586:GLN:NE2	2.27	0.48
1:a:70:ASP:O	1:a:74:PRO:HD3	2.14	0.48
1:a:522:MET:SD	1:a:525:ASP:N	2.87	0.48
1:b:224:LYS:HD2	1:b:224:LYS:HA	1.65	0.48
1:d:466:MET:HA	1:d:469:GLU:HG3	1.95	0.48
1:d:522:MET:SD	1:d:525:ASP:HB3	2.54	0.48
1:h:221:HIS:NE2	1:h:223:GLU:OE2	2.41	0.48
1:h:329:TYR:HB2	1:h:331:ILE:HD11	1.95	0.48
1:g:532:MET:SD	1:g:533:ARG:N	2.86	0.48
1:k:185:ILE:HG22	1:k:186:ARG:HG3	1.96	0.48
1:k:354:LEU:HD11	1:k:415:LEU:HD21	1.95	0.48
1:i:135:VAL:HG12	1:i:201:PRO:HB3	1.94	0.48
1:a:327:ASN:HD21	1:a:330:ARG:HA	1.79	0.48
1:a:482:HIS:HD2	1:a:486:TYR:CG	2.32	0.48
1:c:358:ILE:HA	1:c:407:LEU:HD12	1.96	0.48
1:d:124:TRP:CE2	1:d:326:LEU:HD12	2.48	0.48
1:e:135:VAL:HG12	1:e:201:PRO:HB3	1.96	0.48
1:e:376:GLN:HE21	1:e:396:MET:HE3	1.79	0.48
1:f:230:LEU:HB3	1:f:235:VAL:HG23	1.96	0.48
1:h:486:TYR:H	1:h:502:VAL:HG12	1.79	0.48
1:k:107:VAL:O	1:k:111:PHE:HB2	2.14	0.47
1:k:200:LYS:NZ	1:k:202:GLU:OE1	2.47	0.47
1:k:500:VAL:HG22	1:k:502:VAL:H	1.79	0.47
1:k:560:LEU:HB3	1:a:537:MET:HE2	1.96	0.47
1:j:115:ASN:O	1:j:116:GLU:HG3	2.13	0.47
1:j:551:VAL:HG23	1:i:575:PHE:CE1	2.48	0.47
1:i:54:ARG:NH2	1:i:57:LYS:HG2	2.29	0.47
1:c:447:MET:HE3	1:c:528:MET:HE3	1.96	0.47
1:d:45:TYR:CZ	1:d:66:GLN:HG2	2.49	0.47
1:d:549:VAL:HG13	1:d:550:LEU:H	1.79	0.47
1:d:561:LYS:O	1:d:562:GLU:C	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:45:TYR:CD2	1:e:65:VAL:HG23	2.49	0.47
1:e:111:PHE:CE1	1:e:196:VAL:HG11	2.49	0.47
1:h:11:ASP:HB3	1:h:15:VAL:HG13	1.96	0.47
1:g:344:ILE:HD11	1:g:426:THR:HG23	1.96	0.47
1:k:70:ASP:O	1:a:459:GLN:NE2	2.47	0.47
1:j:326:LEU:HG	1:j:470:THR:HG21	1.97	0.47
1:i:329:TYR:OH	1:i:343:LYS:HD2	2.14	0.47
1:i:565:GLU:HG3	1:i:570:LYS:HB2	1.96	0.47
1:i:587:ALA:HA	1:i:591:ARG:HG2	1.97	0.47
1:b:38:ARG:HD3	1:b:131:MET:HG3	1.97	0.47
1:b:74:PRO:HB3	1:c:462:LEU:HD11	1.96	0.47
1:b:95:GLU:HA	1:b:98:GLU:CD	2.38	0.47
1:b:331:ILE:HG21	1:b:334:LYS:HE3	1.96	0.47
1:b:586:GLN:HA	1:b:590:ILE:HG12	1.96	0.47
1:c:45:TYR:CZ	1:c:66:GLN:HG2	2.49	0.47
1:c:69:VAL:HA	1:c:72:ILE:HG12	1.96	0.47
1:c:549:VAL:HG13	1:c:550:LEU:N	2.29	0.47
1:c:561:LYS:NZ	1:c:571:ASP:HA	2.28	0.47
1:e:45:TYR:HD2	1:e:65:VAL:HG23	1.79	0.47
1:f:207:ASP:N	1:f:207:ASP:OD1	2.47	0.47
1:f:453:MET:HG3	1:f:453:MET:O	2.15	0.47
1:f:500:VAL:HG22	1:f:502:VAL:H	1.79	0.47
1:g:476:PHE:HB2	1:g:510:ARG:CZ	2.44	0.47
1:j:532:MET:O	1:j:536:GLU:HG3	2.14	0.47
1:i:27:LEU:O	1:i:31:SER:CB	2.63	0.47
1:i:136:VAL:O	1:i:323:PHE:HA	2.14	0.47
1:i:560:LEU:O	1:i:564:THR:HG23	2.14	0.47
1:i:583:GLU:HG2	1:i:584:ALA:N	2.29	0.47
1:a:528:MET:SD	1:a:529:LEU:N	2.88	0.47
1:c:554:GLN:CD	1:c:579:PRO:HA	2.39	0.47
1:d:78:LYS:O	1:d:82:SER:OG	2.19	0.47
1:d:138:VAL:HB	1:d:322:PRO:HB2	1.97	0.47
1:d:140:VAL:HG12	1:d:194:ILE:HG13	1.96	0.47
1:d:487:GLN:O	1:d:500:VAL:HG23	2.14	0.47
1:d:587:ALA:HA	1:e:549:VAL:HG23	1.96	0.47
1:g:127:ASP:HB3	1:g:133:THR:O	2.15	0.47
1:j:80:PHE:HZ	1:j:111:PHE:HE2	1.62	0.47
1:i:74:PRO:HB2	1:i:78:LYS:NZ	2.30	0.47
1:i:482:HIS:HD2	1:i:486:TYR:CG	2.32	0.47
1:a:459:GLN:O	1:a:463:ILE:HG12	2.14	0.47
1:a:498:LYS:NZ	1:a:499:TRP:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:33:GLU:O	1:b:36:LYS:HG2	2.13	0.47
1:c:80:PHE:O	1:c:82:SER:N	2.44	0.47
1:c:99:GLN:HA	1:c:102:GLN:HB2	1.95	0.47
1:c:111:PHE:HA	1:c:115:ASN:HB2	1.97	0.47
1:c:143:VAL:HG23	1:c:191:LYS:O	2.15	0.47
1:d:129:LEU:HD12	1:d:130:MET:HG2	1.95	0.47
1:f:76:LEU:HD13	1:f:125:PHE:CD2	2.49	0.47
1:f:331:ILE:HD13	1:f:337:GLY:HA3	1.97	0.47
1:g:225:TYR:HE2	1:g:306:LEU:HD11	1.79	0.47
1:k:15:VAL:HG12	1:k:292:LEU:HD13	1.95	0.47
1:k:95:GLU:HA	1:k:98:GLU:CD	2.40	0.47
1:j:339:SER:OG	1:j:340:VAL:N	2.46	0.47
1:d:465:ARG:NH1	1:d:513:LEU:HA	2.27	0.47
1:h:141:GLU:HB2	1:h:193:GLU:OE2	2.15	0.47
1:g:135:VAL:HG13	1:g:199:VAL:CG2	2.44	0.47
1:k:73:MET:N	1:k:74:PRO:HD2	2.29	0.47
1:i:98:GLU:OE1	1:i:99:GLN:HG3	2.15	0.47
1:b:67:GLU:HB3	1:c:425:ARG:HE	1.80	0.47
1:b:213:ILE:HG12	1:b:473:LYS:HE2	1.96	0.47
1:c:90:GLU:HB3	1:c:509:GLU:OE1	2.14	0.47
1:c:110:LEU:HA	1:c:114:LYS:HB2	1.96	0.47
1:c:112:MET:O	1:c:113:ARG:HG2	2.14	0.47
1:e:507:TRP:O	1:e:509:GLU:N	2.47	0.47
1:f:27:LEU:O	1:f:31:SER:CB	2.63	0.47
1:f:307:TYR:HA	1:f:313:ILE:HG22	1.95	0.47
1:k:33:GLU:C	1:k:37:GLN:HE21	2.23	0.47
1:k:124:TRP:CZ3	1:k:326:LEU:HD11	2.50	0.47
1:k:211:THR:H	1:k:335:PHE:HB2	1.79	0.47
1:k:227:VAL:HG22	1:k:281:ARG:HD2	1.95	0.47
1:k:322:PRO:HA	1:k:474:ARG:HH12	1.80	0.47
1:k:491:GLU:H	1:k:498:LYS:HB3	1.80	0.47
1:j:29:PHE:HE2	1:j:208:ARG:HD2	1.80	0.47
1:j:73:MET:HE1	1:j:125:PHE:HB2	1.96	0.47
1:j:82:SER:O	1:j:85:GLN:NE2	2.48	0.47
1:j:101:GLU:HA	1:j:104:THR:HB	1.96	0.47
1:i:15:VAL:HG23	1:i:16:LEU:HD12	1.97	0.47
1:i:128:THR:HB	1:i:134:GLY:HA3	1.96	0.47
1:a:15:VAL:HG23	1:a:16:LEU:HD12	1.96	0.47
1:a:211:THR:HA	1:a:335:PHE:HA	1.95	0.47
1:a:490:GLU:OE2	1:a:496:ARG:NH1	2.47	0.47
1:a:496:ARG:HH21	1:b:94:ALA:N	1.93	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:558:ASN:HA	1:a:561:LYS:HB2	1.95	0.47
1:b:80:PHE:O	1:b:82:SER:N	2.46	0.47
1:d:331:ILE:HG22	1:d:332:ALA:N	2.29	0.47
1:d:354:LEU:HD11	1:d:415:LEU:HD21	1.95	0.47
1:d:484:ILE:HG23	1:d:485:LYS:H	1.79	0.47
1:e:33:GLU:C	1:e:37:GLN:HE21	2.21	0.47
1:f:11:ASP:HB2	1:f:294:VAL:HG12	1.96	0.47
1:f:92:ASP:OD1	1:f:92:ASP:N	2.47	0.47
1:f:140:VAL:HA	1:f:193:GLU:O	2.14	0.47
1:f:523:ASN:O	1:f:527:GLN:HB3	2.14	0.47
1:h:213:ILE:CD1	1:h:323:PHE:HB2	2.45	0.47
1:g:31:SER:O	1:g:35:SER:CB	2.54	0.47
1:k:550:LEU:HD13	1:j:576:TRP:CZ3	2.49	0.47
1:a:34:LEU:HG	1:a:336:HIS:CD2	2.49	0.47
1:a:145:LYS:O	1:a:188:ASP:HB2	2.15	0.47
1:b:29:PHE:CE2	1:b:208:ARG:HB2	2.50	0.47
1:b:573:ASP:OD2	1:b:574:ARG:NH1	2.48	0.47
1:c:556:LEU:O	1:c:560:LEU:HG	2.15	0.47
1:d:524:LYS:H	1:d:524:LYS:HD2	1.80	0.47
1:d:591:ARG:O	1:d:595:GLU:HG2	2.15	0.47
1:e:507:TRP:O	1:e:508:ARG:HD3	2.14	0.47
1:f:35:SER:HA	1:f:38:ARG:HE	1.79	0.47
1:f:119:LYS:HD3	1:f:119:LYS:HA	1.73	0.47
1:f:239:VAL:HG23	1:f:241:GLU:HG3	1.97	0.47
1:h:80:PHE:HE1	1:h:468:ALA:HB2	1.79	0.47
1:k:331:ILE:HG22	1:k:332:ALA:N	2.29	0.47
1:k:351:ARG:O	1:k:354:LEU:HG	2.15	0.47
1:k:553:GLU:OE1	1:k:591:ARG:NH2	2.48	0.47
1:j:95:GLU:HG3	1:j:507:TRP:CH2	2.49	0.47
1:j:468:ALA:O	1:j:472:VAL:HG23	2.15	0.47
1:i:34:LEU:HB3	1:i:38:ARG:NH2	2.14	0.47
1:a:29:PHE:CE2	1:a:208:ARG:HD2	2.50	0.47
1:a:88:LYS:NZ	1:a:100:ALA:HB1	2.29	0.47
1:a:318:TRP:NE1	1:a:320:CYS:O	2.48	0.47
1:a:465:ARG:O	1:a:465:ARG:NE	2.46	0.47
1:b:63:ARG:HB2	1:c:425:ARG:HH12	1.79	0.47
1:b:211:THR:HA	1:b:335:PHE:HA	1.96	0.47
1:c:205:LEU:HB2	1:c:220:CYS:HB3	1.96	0.47
1:c:285:ALA:HA	1:c:308:VAL:HG13	1.97	0.47
1:c:343:LYS:HG3	1:c:344:ILE:HG12	1.96	0.47
1:c:560:LEU:HD13	1:c:576:TRP:CZ3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:135:VAL:HG23	1:d:325:ASP:H	1.80	0.47
1:d:561:LYS:O	1:d:564:THR:N	2.48	0.47
1:e:383:LEU:O	1:e:385:ASN:ND2	2.48	0.47
1:h:194:ILE:HB	1:h:482:HIS:CE1	2.49	0.47
1:h:302:LEU:HD11	1:h:321:ARG:HE	1.79	0.47
1:g:29:PHE:CE2	1:g:208:ARG:HD2	2.50	0.47
1:k:433:ARG:CZ	1:k:452:LEU:HB2	2.44	0.47
1:a:98:GLU:OE1	1:a:98:GLU:N	2.43	0.47
1:d:567:ALA:HB2	1:e:533:ARG:NH2	2.30	0.47
1:h:235:VAL:HB	1:h:311:TYR:HE2	1.80	0.47
1:h:462:LEU:HD23	1:h:517:VAL:HG21	1.97	0.47
1:g:551:VAL:HG23	1:g:555:ASN:HB3	1.96	0.47
1:k:92:ASP:HA	1:j:492:VAL:HG22	1.96	0.46
1:j:33:GLU:O	1:j:36:LYS:HG2	2.15	0.46
1:a:69:VAL:HG12	1:a:73:MET:HE2	1.96	0.46
1:c:205:LEU:HD11	1:c:222:ARG:HD2	1.96	0.46
1:c:465:ARG:HD2	1:c:516:THR:HG21	1.97	0.46
1:d:29:PHE:HE2	1:d:208:ARG:HB2	1.80	0.46
1:h:15:VAL:HG23	1:h:16:LEU:HD12	1.97	0.46
1:h:193:GLU:HA	1:h:486:TYR:HE1	1.77	0.46
1:k:89:TYR:HE2	1:k:103:GLU:HB2	1.80	0.46
1:j:213:ILE:HG21	1:j:473:LYS:HE2	1.97	0.46
1:i:33:GLU:O	1:i:36:LYS:HG2	2.15	0.46
1:i:214:ASP:OD1	1:i:214:ASP:N	2.49	0.46
1:a:192:ARG:NH1	1:a:194:ILE:HD11	2.29	0.46
1:a:549:VAL:HG13	1:a:550:LEU:N	2.30	0.46
1:b:412:TYR:O	1:b:415:LEU:HB2	2.15	0.46
1:c:550:LEU:HD23	1:c:550:LEU:HA	1.73	0.46
1:d:200:LYS:O	1:d:202:GLU:N	2.48	0.46
1:d:342:ASP:OD1	1:d:345:ARG:NH2	2.48	0.46
1:e:15:VAL:HG23	1:e:16:LEU:HD12	1.97	0.46
1:f:220:CYS:SG	1:f:286:SER:HB2	2.55	0.46
1:h:135:VAL:HB	1:h:325:ASP:HA	1.96	0.46
1:g:569:TYR:CD2	1:g:573:ASP:HB3	2.51	0.46
1:k:200:LYS:O	1:k:202:GLU:N	2.48	0.46
1:j:86:VAL:HG13	1:j:515:VAL:HG21	1.97	0.46
1:j:491:GLU:N	1:j:498:LYS:HB3	2.30	0.46
1:j:522:MET:O	1:j:526:GLN:N	2.34	0.46
1:a:126:GLN:HA	1:a:129:LEU:HG	1.96	0.46
1:a:532:MET:SD	1:a:533:ARG:N	2.88	0.46
1:c:146:PRO:HG2	1:c:148:PHE:HD2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:103:GLU:CD	1:d:504:PRO:HB3	2.40	0.46
1:e:139:TYR:CE1	1:e:197:LEU:HD22	2.50	0.46
1:f:34:LEU:HG	1:f:336:HIS:CD2	2.51	0.46
1:f:346:ASP:OD1	1:f:346:ASP:N	2.48	0.46
1:h:127:ASP:HA	1:h:131:MET:HE2	1.98	0.46
1:g:15:VAL:HG23	1:g:16:LEU:HD12	1.98	0.46
1:g:328:ALA:HA	1:g:467:PHE:CE1	2.49	0.46
1:g:347:ILE:HG23	1:g:418:LEU:HD22	1.97	0.46
1:k:74:PRO:HA	1:k:77:MET:HG3	1.98	0.46
1:k:578:ASN:ND2	1:k:588:LYS:HE3	2.30	0.46
1:j:135:VAL:CG1	1:j:201:PRO:HB3	2.46	0.46
1:j:527:GLN:HB2	1:j:566:ASN:HB3	1.96	0.46
1:i:49:PRO:HA	1:i:61:VAL:HG21	1.97	0.46
1:i:89:TYR:CD1	1:i:510:ARG:HG3	2.49	0.46
1:i:112:MET:HB3	1:i:113:ARG:NH1	2.30	0.46
1:a:205:LEU:N	1:a:220:CYS:O	2.49	0.46
1:b:185:ILE:HG22	1:b:186:ARG:HG3	1.96	0.46
1:d:394:LYS:HG3	1:d:395:SER:N	2.24	0.46
1:d:450:ASN:HA	1:d:525:ASP:CG	2.40	0.46
1:e:209:LEU:HB2	1:e:217:ARG:HH22	1.80	0.46
1:e:587:ALA:HA	1:e:591:ARG:HG2	1.97	0.46
1:f:101:GLU:HA	1:f:104:THR:HB	1.97	0.46
1:h:331:ILE:HD13	1:h:337:GLY:HA3	1.96	0.46
1:k:44:TYR:CE2	1:k:345:ARG:HB2	2.50	0.46
1:k:116:GLU:CD	1:k:120:VAL:H	2.23	0.46
1:j:354:LEU:HD12	1:j:355:MET:N	2.31	0.46
1:i:226:THR:HA	1:i:283:VAL:HG12	1.97	0.46
1:i:239:VAL:HG23	1:i:241:GLU:HG3	1.97	0.46
1:a:194:ILE:HB	1:a:482:HIS:CE1	2.50	0.46
1:a:429:THR:HG21	1:a:455:ALA:HB1	1.98	0.46
1:b:73:MET:HE2	1:b:129:LEU:HD21	1.97	0.46
1:b:531:LEU:O	1:b:535:TRP:HD1	1.99	0.46
1:c:558:ASN:HA	1:c:561:LYS:HB2	1.97	0.46
1:e:550:LEU:HD23	1:e:550:LEU:HA	1.75	0.46
1:h:303:ARG:NH2	1:h:315:ASN:HB2	2.30	0.46
1:h:527:GLN:OE1	1:h:566:ASN:HB2	2.15	0.46
1:g:92:ASP:N	1:g:92:ASP:OD1	2.48	0.46
1:j:11:ASP:HB2	1:j:294:VAL:HG12	1.97	0.46
1:j:230:LEU:HD11	1:j:283:VAL:HG11	1.96	0.46
1:i:132:LYS:HE3	1:i:338:MET:HA	1.97	0.46
1:i:306:LEU:CB	1:i:314:SER:H	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:485:LYS:HA	1:i:502:VAL:HB	1.98	0.46
1:a:91:PRO:HG2	1:a:96:ASP:OD1	2.15	0.46
1:a:551:VAL:HG13	1:a:556:LEU:HD21	1.97	0.46
1:c:307:TYR:HA	1:c:313:ILE:HG22	1.97	0.46
1:c:496:ARG:NH2	1:d:94:ALA:H	2.14	0.46
1:d:588:LYS:HB2	1:d:588:LYS:HE3	1.75	0.46
1:e:227:VAL:HG12	1:e:231:ARG:HH12	1.79	0.46
1:e:228:SER:OG	1:f:299:ILE:HG12	2.16	0.46
1:e:307:TYR:HA	1:e:313:ILE:HG22	1.97	0.46
1:f:529:LEU:O	1:f:533:ARG:HG2	2.16	0.46
1:k:528:MET:SD	1:k:529:LEU:N	2.89	0.46
1:j:525:ASP:HA	1:j:528:MET:HG3	1.97	0.46
1:i:549:VAL:HG23	1:h:587:ALA:HA	1.98	0.46
1:a:34:LEU:O	1:a:38:ARG:NE	2.46	0.46
1:a:136:VAL:HA	1:a:199:VAL:HG13	1.96	0.46
1:b:305:ILE:HG23	1:b:313:ILE:HD12	1.98	0.46
1:b:332:ALA:O	1:b:334:LYS:N	2.49	0.46
1:b:338:MET:HE2	1:b:342:ASP:HB2	1.98	0.46
1:c:135:VAL:HG23	1:c:325:ASP:H	1.80	0.46
1:d:554:GLN:CD	1:d:579:PRO:HA	2.40	0.46
1:f:41:ALA:HA	1:f:341:TYR:CD1	2.50	0.46
1:f:227:VAL:HG21	1:f:281:ARG:HD2	1.96	0.46
1:g:34:LEU:HD11	1:g:336:HIS:HB3	1.98	0.46
1:k:530:HIS:NE2	1:k:562:GLU:HB2	2.30	0.46
1:j:491:GLU:H	1:j:498:LYS:HB3	1.80	0.46
1:j:555:ASN:HD22	1:i:575:PHE:HE1	1.63	0.46
1:i:77:MET:HE3	1:i:122:PHE:HD1	1.81	0.46
1:i:128:THR:HG21	1:i:467:PHE:CZ	2.51	0.46
1:i:302:LEU:HD11	1:i:321:ARG:HH21	1.81	0.46
1:a:200:LYS:O	1:a:202:GLU:N	2.48	0.46
1:a:587:ALA:O	1:b:549:VAL:HG23	2.16	0.46
1:b:491:GLU:HG3	1:b:498:LYS:HG2	1.97	0.46
1:b:581:SER:O	1:b:585:LEU:N	2.48	0.46
1:c:33:GLU:C	1:c:37:GLN:HE21	2.24	0.46
1:c:519:ILE:O	1:c:521:ASN:N	2.49	0.46
1:f:238:ASP:HB2	1:f:241:GLU:OE2	2.15	0.46
1:h:107:VAL:O	1:h:111:PHE:HB2	2.16	0.46
1:g:97:VAL:HA	1:g:101:GLU:OE2	2.15	0.46
1:g:136:VAL:O	1:g:323:PHE:HA	2.15	0.46
1:k:122:PHE:HA	1:k:125:PHE:CD2	2.50	0.46
1:k:468:ALA:O	1:k:472:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:553:GLU:HA	1:k:556:LEU:HB3	1.98	0.46
1:j:43:LYS:HD3	1:j:50:PHE:HA	1.97	0.46
1:i:299:ILE:HD11	1:h:231:ARG:HB3	1.98	0.46
1:i:528:MET:SD	1:i:529:LEU:N	2.89	0.46
1:i:551:VAL:HG21	1:i:559:ILE:HD11	1.98	0.46
1:a:459:GLN:O	1:a:462:LEU:HB2	2.15	0.46
1:a:560:LEU:HD13	1:b:537:MET:HE3	1.98	0.46
1:b:418:LEU:O	1:b:421:ASP:HB2	2.16	0.46
1:d:92:ASP:N	1:d:92:ASP:OD1	2.49	0.46
1:d:492:VAL:O	1:d:492:VAL:HG12	2.16	0.46
1:e:112:MET:O	1:e:113:ARG:HD3	2.16	0.46
1:e:224:LYS:HD2	1:e:224:LYS:HA	1.71	0.46
1:f:105:GLU:HG3	1:f:493:PHE:CD1	2.51	0.46
1:f:204:PHE:HZ	1:f:219:LEU:HD23	1.81	0.46
1:h:22:LEU:HD13	1:h:218:PHE:CG	2.50	0.46
1:h:224:LYS:HA	1:h:224:LYS:HD2	1.69	0.46
1:g:27:LEU:HD23	1:g:205:LEU:HD21	1.98	0.46
1:g:233:LEU:HD22	1:g:235:VAL:HG13	1.96	0.46
1:g:472:VAL:HG12	1:g:510:ARG:HH21	1.81	0.46
1:g:527:GLN:HB2	1:g:566:ASN:HB3	1.97	0.46
1:k:500:VAL:HG22	1:k:502:VAL:HG22	1.98	0.46
1:k:565:GLU:HG3	1:k:570:LYS:HG3	1.98	0.46
1:j:478:LEU:HD12	1:j:482:HIS:HE1	1.80	0.46
1:i:65:VAL:O	1:i:69:VAL:HG23	2.16	0.46
1:i:351:ARG:NH2	1:i:419:GLU:HB2	2.28	0.46
1:a:496:ARG:NH2	1:b:94:ALA:H	1.93	0.46
1:c:129:LEU:O	1:c:340:VAL:HG22	2.16	0.46
1:d:129:LEU:O	1:d:340:VAL:HG22	2.16	0.46
1:d:141:GLU:HB2	1:d:193:GLU:OE2	2.16	0.46
1:e:587:ALA:C	1:e:591:ARG:HE	2.23	0.46
1:f:75:SER:HA	1:f:78:LYS:HE2	1.97	0.46
1:h:69:VAL:HA	1:h:72:ILE:HG12	1.98	0.46
1:h:331:ILE:HG22	1:h:332:ALA:N	2.31	0.46
1:k:494:GLN:HB3	1:k:571:ASP:HB3	1.98	0.45
1:j:222:ARG:HB3	1:j:284:TRP:NE1	2.26	0.45
1:j:528:MET:SD	1:j:529:LEU:HG	2.56	0.45
1:a:553:GLU:HB3	1:a:588:LYS:HE3	1.96	0.45
1:a:585:LEU:O	1:a:589:ALA:HB3	2.15	0.45
1:c:200:LYS:O	1:c:202:GLU:N	2.49	0.45
1:c:239:VAL:HG23	1:c:241:GLU:HG3	1.98	0.45
1:c:331:ILE:HG22	1:c:332:ALA:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:431:ARG:HD3	1:c:432:THR:H	1.81	0.45
1:d:567:ALA:HB2	1:e:533:ARG:HH22	1.81	0.45
1:e:92:ASP:N	1:e:92:ASP:OD1	2.46	0.45
1:e:531:LEU:O	1:e:535:TRP:HB2	2.15	0.45
1:h:433:ARG:HD2	1:h:455:ALA:HA	1.98	0.45
1:k:27:LEU:O	1:k:31:SER:CB	2.64	0.45
1:j:203:ASN:HB3	1:j:222:ARG:HB2	1.98	0.45
1:a:545:GLY:C	1:a:549:VAL:HG11	2.41	0.45
1:b:119:LYS:HZ1	1:b:123:ASP:CG	2.20	0.45
1:b:576:TRP:HZ3	1:c:550:LEU:HD13	1.81	0.45
1:c:557:TYR:CZ	1:c:577:THR:HA	2.51	0.45
1:d:224:LYS:HA	1:d:224:LYS:HD2	1.73	0.45
1:d:320:CYS:SG	1:d:477:GLN:NE2	2.83	0.45
1:d:361:ASN:HD22	1:d:407:LEU:HG	1.81	0.45
1:d:549:VAL:HG13	1:d:550:LEU:N	2.31	0.45
1:e:133:THR:O	1:e:201:PRO:HG3	2.16	0.45
1:f:99:GLN:HA	1:f:102:GLN:HB2	1.98	0.45
1:f:146:PRO:HG2	1:f:148:PHE:HD2	1.81	0.45
1:h:72:ILE:HD11	1:h:129:LEU:HD22	1.98	0.45
1:h:307:TYR:HA	1:h:313:ILE:HG22	1.98	0.45
1:g:101:GLU:HA	1:g:104:THR:HB	1.99	0.45
1:g:110:LEU:HA	1:g:114:LYS:HD3	1.99	0.45
1:k:303:ARG:HH21	1:k:316:GLU:N	2.14	0.45
1:j:474:ARG:NH1	1:j:477:GLN:HG2	2.31	0.45
1:i:41:ALA:HA	1:i:341:TYR:CD1	2.50	0.45
1:i:199:VAL:HG11	1:i:323:PHE:HE1	1.81	0.45
1:b:133:THR:O	1:b:201:PRO:HG3	2.17	0.45
1:c:527:GLN:HE22	1:c:563:VAL:HG13	1.80	0.45
1:c:575:PHE:CG	1:c:576:TRP:N	2.80	0.45
1:d:343:LYS:HD3	1:d:425:ARG:HG3	1.98	0.45
1:d:428:ILE:H	1:d:458:GLN:NE2	2.14	0.45
1:e:74:PRO:HB2	1:e:78:LYS:NZ	2.32	0.45
1:e:80:PHE:HD2	1:e:125:PHE:HZ	1.63	0.45
1:f:77:MET:N	1:f:77:MET:HE2	2.32	0.45
1:h:492:VAL:O	1:h:492:VAL:HG12	2.16	0.45
1:k:330:ARG:HG3	1:j:119:LYS:NZ	2.32	0.45
1:j:330:ARG:H	1:j:466:MET:HE2	1.81	0.45
1:i:108:ASN:O	1:i:112:MET:N	2.42	0.45
1:b:34:LEU:HB3	1:b:38:ARG:NH2	2.30	0.45
1:b:73:MET:HE3	1:b:122:PHE:CE1	2.52	0.45
1:b:125:PHE:O	1:b:128:THR:HG22	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:476:PHE:HB2	1:b:510:ARG:CZ	2.46	0.45
1:b:575:PHE:HE1	1:c:555:ASN:HD22	1.65	0.45
1:c:104:THR:O	1:c:107:VAL:HG22	2.16	0.45
1:c:332:ALA:O	1:c:334:LYS:N	2.47	0.45
1:e:65:VAL:HG22	1:e:348:GLN:OE1	2.15	0.45
1:e:109:TYR:HE2	1:e:489:GLN:HE22	1.65	0.45
1:f:454:THR:O	1:f:454:THR:HG22	2.17	0.45
1:h:145:LYS:O	1:h:188:ASP:HB2	2.16	0.45
1:h:343:LYS:O	1:h:425:ARG:HG2	2.16	0.45
1:h:428:ILE:HD11	1:h:456:ALA:O	2.17	0.45
1:h:533:ARG:O	1:h:536:GLU:HG3	2.17	0.45
1:k:45:TYR:HD1	1:k:46:PHE:CD1	2.35	0.45
1:k:135:VAL:HG23	1:k:324:ALA:H	1.81	0.45
1:k:306:LEU:CB	1:k:314:SER:H	2.27	0.45
1:j:137:LYS:O	1:j:197:LEU:HD23	2.17	0.45
1:i:287:GLU:OE2	1:i:304:ARG:NE	2.50	0.45
1:i:522:MET:SD	1:i:524:LYS:N	2.89	0.45
1:a:465:ARG:NH2	1:a:512:ASP:OD2	2.38	0.45
1:b:551:VAL:CG2	1:b:555:ASN:HB3	2.46	0.45
1:b:563:VAL:HG12	1:c:533:ARG:NH2	2.26	0.45
1:d:482:HIS:HD2	1:d:486:TYR:CG	2.35	0.45
1:f:138:VAL:HG22	1:f:196:VAL:HB	1.99	0.45
1:f:204:PHE:CZ	1:f:219:LEU:HD23	2.51	0.45
1:f:506:ASN:OD1	1:f:508:ARG:HD3	2.17	0.45
1:g:547:LEU:O	1:g:552:SER:HA	2.16	0.45
1:k:549:VAL:HG13	1:k:550:LEU:N	2.32	0.45
1:j:136:VAL:HA	1:j:199:VAL:HG13	1.99	0.45
1:j:224:LYS:HA	1:j:224:LYS:HD2	1.68	0.45
1:i:430:ASP:N	1:i:430:ASP:OD1	2.48	0.45
1:i:527:GLN:HE21	1:i:531:LEU:HD23	1.81	0.45
1:a:192:ARG:HD3	1:a:485:LYS:O	2.17	0.45
1:b:29:PHE:CZ	1:b:208:ARG:HD2	2.52	0.45
1:b:136:VAL:HA	1:b:199:VAL:HG13	1.98	0.45
1:b:485:LYS:HA	1:b:502:VAL:HG12	1.98	0.45
1:c:293:ASP:OD1	1:c:293:ASP:N	2.46	0.45
1:d:194:ILE:HB	1:d:482:HIS:NE2	2.31	0.45
1:d:427:GLY:O	1:d:429:THR:N	2.49	0.45
1:e:143:VAL:HG23	1:e:191:LYS:O	2.17	0.45
1:e:475:LEU:HA	1:e:475:LEU:HD23	1.71	0.45
1:e:554:GLN:HB2	1:e:588:LYS:NZ	2.32	0.45
1:f:331:ILE:H	1:f:331:ILE:HD12	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:460:ILE:HA	1:h:463:ILE:HG12	1.98	0.45
1:g:41:ALA:HA	1:g:341:TYR:CD1	2.51	0.45
1:k:450:ASN:HA	1:k:525:ASP:CG	2.42	0.45
1:k:487:GLN:O	1:k:500:VAL:HG23	2.16	0.45
1:j:34:LEU:HB3	1:j:38:ARG:NH2	2.26	0.45
1:j:65:VAL:O	1:j:69:VAL:HG23	2.16	0.45
1:j:569:TYR:CD2	1:j:573:ASP:HB3	2.52	0.45
1:i:478:LEU:HD12	1:i:482:HIS:HE1	1.82	0.45
1:i:479:LEU:HD22	1:i:506:ASN:HA	1.98	0.45
1:b:132:LYS:HG2	1:b:339:SER:CB	2.47	0.45
1:c:139:TYR:CZ	1:c:195:LYS:HE2	2.51	0.45
1:c:141:GLU:HB2	1:c:193:GLU:OE2	2.17	0.45
1:c:500:VAL:HG22	1:c:502:VAL:H	1.82	0.45
1:d:29:PHE:CE2	1:d:208:ARG:HB2	2.52	0.45
1:e:23:VAL:HA	1:e:218:PHE:HZ	1.82	0.45
1:e:108:ASN:O	1:e:112:MET:N	2.50	0.45
1:e:490:GLU:HB2	1:e:496:ARG:NH2	2.32	0.45
1:f:285:ALA:HB2	1:f:308:VAL:HG13	1.98	0.45
1:f:304:ARG:O	1:f:315:ASN:HA	2.17	0.45
1:h:462:LEU:O	1:h:466:MET:HG3	2.17	0.45
1:g:33:GLU:C	1:g:37:GLN:HE21	2.25	0.45
1:k:93:THR:OG1	1:j:496:ARG:HB2	2.17	0.45
1:k:291:LEU:HD23	1:k:291:LEU:H	1.81	0.45
1:j:199:VAL:HG11	1:j:323:PHE:HE1	1.82	0.45
1:j:575:PHE:CG	1:j:576:TRP:N	2.84	0.45
1:i:575:PHE:O	1:i:577:THR:N	2.50	0.45
1:b:526:GLN:O	1:b:530:HIS:HB3	2.16	0.45
1:e:305:ILE:HG23	1:e:313:ILE:HD12	1.99	0.45
1:f:327:ASN:HB2	1:f:337:GLY:HA3	1.99	0.45
1:g:109:TYR:HD1	1:g:113:ARG:HH21	1.64	0.45
1:k:555:ASN:HA	1:k:558:ASN:ND2	2.31	0.45
1:j:14:GLN:HA	1:j:17:ARG:HG2	1.98	0.45
1:j:44:TYR:CE2	1:j:345:ARG:HB2	2.52	0.45
1:i:88:LYS:HG2	1:i:89:TYR:N	2.32	0.45
1:i:88:LYS:N	1:i:511:SER:O	2.48	0.45
1:i:140:VAL:HG12	1:i:194:ILE:CG1	2.47	0.45
1:i:534:ILE:HD12	1:i:559:ILE:HG23	1.98	0.45
1:i:569:TYR:HE2	1:i:574:ARG:HH11	1.65	0.45
1:a:493:PHE:O	1:a:495:LEU:HG	2.17	0.45
1:a:500:VAL:HG22	1:a:502:VAL:HG22	1.98	0.45
1:b:450:ASN:HA	1:b:525:ASP:CG	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:45:TYR:CE2	1:c:66:GLN:HG2	2.52	0.45
1:c:227:VAL:CG2	1:c:281:ARG:HB2	2.47	0.45
1:c:303:ARG:HH21	1:c:316:GLU:N	2.15	0.45
1:d:139:TYR:CE1	1:d:197:LEU:HD22	2.52	0.45
1:d:207:ASP:N	1:d:207:ASP:OD1	2.47	0.45
1:d:241:GLU:HG2	1:d:283:VAL:HG23	1.98	0.45
1:d:465:ARG:HB2	1:d:516:THR:HG21	1.99	0.45
1:e:74:PRO:HB2	1:e:78:LYS:HZ2	1.82	0.45
1:e:98:GLU:OE1	1:e:98:GLU:N	2.47	0.45
1:f:34:LEU:HB3	1:f:38:ARG:NH2	2.32	0.45
1:h:38:ARG:HH12	1:h:201:PRO:HG2	1.81	0.45
1:k:88:LYS:HG2	1:k:89:TYR:N	2.32	0.45
1:k:493:PHE:O	1:k:495:LEU:HG	2.17	0.45
1:j:129:LEU:HD12	1:j:130:MET:N	2.32	0.45
1:i:45:TYR:CE2	1:i:66:GLN:HG2	2.52	0.45
1:d:129:LEU:HB2	1:d:340:VAL:HG13	1.99	0.45
1:d:420:ALA:HA	1:d:430:ASP:HB3	1.99	0.45
1:e:34:LEU:HG	1:e:336:HIS:CD2	2.52	0.45
1:f:512:ASP:OD1	1:f:512:ASP:N	2.50	0.45
1:g:194:ILE:HB	1:g:482:HIS:NE2	2.32	0.45
1:k:29:PHE:CZ	1:k:208:ARG:HD2	2.51	0.44
1:k:41:ALA:HA	1:k:341:TYR:CD1	2.51	0.44
1:k:428:ILE:HD11	1:k:456:ALA:O	2.17	0.44
1:j:145:LYS:O	1:j:188:ASP:HB2	2.17	0.44
1:i:551:VAL:CG2	1:i:555:ASN:HB3	2.47	0.44
1:i:590:ILE:HG12	1:i:594:LYS:NZ	2.31	0.44
1:a:484:ILE:HG23	1:a:485:LYS:N	2.32	0.44
1:b:219:LEU:HD11	1:b:321:ARG:NH1	2.32	0.44
1:c:516:THR:O	1:c:520:GLY:HA3	2.16	0.44
1:d:578:ASN:OD1	1:d:583:GLU:HG2	2.18	0.44
1:e:135:VAL:HG13	1:e:199:VAL:CG2	2.47	0.44
1:h:74:PRO:HB2	1:h:78:LYS:NZ	2.32	0.44
1:h:577:THR:HG23	1:h:578:ASN:N	2.32	0.44
1:g:135:VAL:HG23	1:g:325:ASP:H	1.82	0.44
1:g:210:ALA:HB3	1:g:335:PHE:CD2	2.52	0.44
1:g:213:ILE:HG12	1:g:473:LYS:HE2	1.98	0.44
1:k:45:TYR:CE2	1:k:66:GLN:HG2	2.52	0.44
1:k:524:LYS:N	1:k:524:LYS:HD2	2.32	0.44
1:i:302:LEU:HD21	1:i:321:ARG:HH21	1.83	0.44
1:i:331:ILE:H	1:i:331:ILE:HD12	1.82	0.44
1:a:34:LEU:HD11	1:a:336:HIS:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:88:LYS:HZ1	1:c:100:ALA:HB1	1.81	0.44
1:c:99:GLN:HB2	1:c:507:TRP:CZ2	2.51	0.44
1:c:131:MET:HE2	1:c:201:PRO:HG2	1.99	0.44
1:c:397:ASN:ND2	1:d:373:LEU:HD21	2.32	0.44
1:c:551:VAL:HG21	1:c:559:ILE:HD12	1.99	0.44
1:d:71:TRP:CD1	1:d:422:ARG:HH22	2.35	0.44
1:d:95:GLU:HB3	1:d:507:TRP:CH2	2.52	0.44
1:e:345:ARG:HG3	1:e:346:ASP:N	2.33	0.44
1:e:473:LYS:HE3	1:e:474:ARG:NH2	2.19	0.44
1:f:27:LEU:O	1:f:31:SER:HB2	2.17	0.44
1:f:44:TYR:O	1:f:348:GLN:NE2	2.35	0.44
1:h:227:VAL:HG21	1:h:281:ARG:HH11	1.82	0.44
1:h:419:GLU:OE2	1:h:422:ARG:NE	2.50	0.44
1:g:291:LEU:HD23	1:g:291:LEU:H	1.82	0.44
1:k:72:ILE:HG13	1:k:73:MET:N	2.31	0.44
1:k:427:GLY:HA2	1:k:458:GLN:NE2	2.32	0.44
1:k:537:MET:O	1:k:541:VAL:HG23	2.17	0.44
1:k:561:LYS:NZ	1:k:574:ARG:O	2.45	0.44
1:j:118:PHE:O	1:j:121:MET:SD	2.75	0.44
1:j:147:THR:HG22	1:j:186:ARG:H	1.82	0.44
1:i:303:ARG:HH21	1:i:316:GLU:N	2.15	0.44
1:a:447:MET:SD	1:a:449:VAL:HA	2.58	0.44
1:a:554:GLN:O	1:a:557:TYR:HB3	2.17	0.44
1:a:565:GLU:HG3	1:a:570:LYS:HG3	1.99	0.44
1:c:393:VAL:HG23	1:c:394:LYS:N	2.30	0.44
1:c:534:ILE:HD12	1:c:559:ILE:HG23	1.98	0.44
1:d:216:ALA:O	1:d:321:ARG:NH1	2.49	0.44
1:e:60:ILE:HG21	1:f:350:ILE:HD11	1.99	0.44
1:f:331:ILE:HG22	1:f:332:ALA:N	2.29	0.44
1:f:557:TYR:CD1	1:f:577:THR:HA	2.53	0.44
1:h:89:TYR:HE2	1:h:103:GLU:HB3	1.82	0.44
1:h:220:CYS:SG	1:h:286:SER:HB2	2.57	0.44
1:k:54:ARG:NH2	1:k:57:LYS:HG2	2.33	0.44
1:k:69:VAL:HA	1:k:72:ILE:HG12	1.99	0.44
1:j:74:PRO:O	1:j:77:MET:HG3	2.16	0.44
1:i:45:TYR:HD2	1:i:65:VAL:HG23	1.83	0.44
1:i:537:MET:HE1	1:h:574:ARG:NE	2.32	0.44
1:a:38:ARG:NH1	1:a:131:MET:HG3	2.32	0.44
1:a:95:GLU:HA	1:a:98:GLU:CD	2.42	0.44
1:a:512:ASP:OD1	1:a:512:ASP:N	2.49	0.44
1:a:530:HIS:CE1	1:a:562:GLU:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:66:GLN:OE1	1:c:425:ARG:NH1	2.50	0.44
1:b:549:VAL:HG13	1:b:550:LEU:H	1.82	0.44
1:c:19:LEU:HG	1:c:218:PHE:HE1	1.82	0.44
1:c:210:ALA:C	1:c:212:CYS:H	2.25	0.44
1:c:532:MET:O	1:c:536:GLU:HG3	2.17	0.44
1:e:44:TYR:HB2	1:e:341:TYR:OH	2.17	0.44
1:e:222:ARG:HB3	1:e:284:TRP:NE1	2.26	0.44
1:h:423:GLY:O	1:h:427:GLY:N	2.50	0.44
1:g:219:LEU:HD11	1:g:321:ARG:NH1	2.32	0.44
1:j:476:PHE:HB2	1:j:510:ARG:NH2	2.32	0.44
1:i:18:HIS:ND1	1:i:292:LEU:HD11	2.33	0.44
1:i:302:LEU:HD11	1:i:321:ARG:HE	1.82	0.44
1:a:306:LEU:CB	1:a:314:SER:H	2.29	0.44
1:b:22:LEU:HD23	1:b:22:LEU:HA	1.83	0.44
1:b:492:VAL:O	1:b:492:VAL:HG12	2.18	0.44
1:c:135:VAL:HG23	1:c:324:ALA:H	1.81	0.44
1:h:292:LEU:O	1:h:300:SER:OG	2.25	0.44
1:g:69:VAL:HG22	1:g:129:LEU:HD13	2.00	0.44
1:g:331:ILE:HG22	1:g:332:ALA:N	2.30	0.44
1:k:74:PRO:HB2	1:k:78:LYS:NZ	2.32	0.44
1:k:121:MET:HB3	1:k:125:PHE:CZ	2.52	0.44
1:k:533:ARG:HG3	1:k:534:ILE:N	2.33	0.44
1:i:472:VAL:HG12	1:i:510:ARG:HH21	1.83	0.44
1:a:480:HIS:O	1:a:484:ILE:HG22	2.17	0.44
1:a:582:PRO:O	1:a:586:GLN:HG3	2.18	0.44
1:b:31:SER:O	1:b:35:SER:CB	2.66	0.44
1:b:549:VAL:HG13	1:b:550:LEU:N	2.33	0.44
1:c:211:THR:N	1:c:335:PHE:HD1	2.16	0.44
1:c:295:ASP:HB2	1:c:297:ASP:OD1	2.18	0.44
1:c:475:LEU:HD23	1:c:478:LEU:HD21	2.00	0.44
1:d:307:TYR:HA	1:d:313:ILE:HG22	1.99	0.44
1:e:76:LEU:HB3	1:e:125:PHE:CE2	2.52	0.44
1:e:418:LEU:HD23	1:e:418:LEU:HA	1.89	0.44
1:e:560:LEU:HD13	1:e:576:TRP:CZ3	2.52	0.44
1:g:62:SER:HB2	1:g:355:MET:CE	2.48	0.44
1:g:207:ASP:N	1:g:207:ASP:OD1	2.48	0.44
1:j:74:PRO:HA	1:j:77:MET:HG3	1.99	0.44
1:j:528:MET:SD	1:j:529:LEU:N	2.91	0.44
1:a:132:LYS:HE2	1:a:132:LYS:HB3	1.84	0.44
1:a:329:TYR:OH	1:a:340:VAL:HG12	2.17	0.44
1:a:576:TRP:CE3	1:b:550:LEU:HD22	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:414:MET:HG3	1:b:417:ARG:CZ	2.48	0.44
1:b:447:MET:SD	1:b:449:VAL:HA	2.57	0.44
1:c:63:ARG:HB3	1:c:66:GLN:HG3	2.00	0.44
1:c:199:VAL:HB	1:c:221:HIS:CE1	2.53	0.44
1:c:527:GLN:OE1	1:c:563:VAL:HA	2.18	0.44
1:d:11:ASP:HB3	1:d:14:GLN:HG3	2.00	0.44
1:e:480:HIS:O	1:e:484:ILE:HG22	2.17	0.44
1:h:583:GLU:O	1:h:587:ALA:HB3	2.17	0.44
1:h:591:ARG:O	1:h:595:GLU:HG2	2.18	0.44
1:k:34:LEU:HG	1:k:336:HIS:CE1	2.53	0.44
1:k:194:ILE:HD13	1:k:482:HIS:CD2	2.53	0.44
1:k:222:ARG:HB3	1:k:284:TRP:NE1	2.33	0.44
1:k:480:HIS:O	1:k:484:ILE:HG22	2.18	0.44
1:i:331:ILE:HG22	1:i:332:ALA:N	2.33	0.44
1:i:554:GLN:CD	1:i:579:PRO:HA	2.43	0.44
1:a:44:TYR:C	1:a:348:GLN:HE22	2.25	0.44
1:b:324:ALA:HB2	1:b:474:ARG:HD2	2.00	0.44
1:c:46:PHE:O	1:c:63:ARG:NH2	2.50	0.44
1:c:189:LYS:O	1:c:191:LYS:HD2	2.18	0.44
1:c:341:TYR:CE1	1:c:345:ARG:HB3	2.52	0.44
1:d:95:GLU:HA	1:d:98:GLU:CD	2.43	0.44
1:d:127:ASP:HA	1:d:131:MET:HB3	1.99	0.44
1:d:287:GLU:OE2	1:d:304:ARG:NE	2.51	0.44
1:d:461:ASP:HB3	1:d:517:VAL:HG13	1.98	0.44
1:e:22:LEU:HD13	1:e:218:PHE:HB2	1.99	0.44
1:e:356:ARG:HG3	1:e:359:MET:HE3	2.00	0.44
1:f:482:HIS:HA	1:f:486:TYR:HB2	2.00	0.44
1:h:241:GLU:HG2	1:h:283:VAL:HB	2.00	0.44
1:g:13:GLU:HG3	1:g:17:ARG:HH12	1.83	0.44
1:g:329:TYR:CE2	1:g:340:VAL:HG12	2.52	0.44
1:k:19:LEU:HD11	1:k:290:THR:HG21	2.00	0.44
1:k:330:ARG:HB2	1:k:466:MET:HE2	2.00	0.44
1:i:428:ILE:H	1:i:458:GLN:NE2	2.09	0.44
1:a:135:VAL:HB	1:a:325:ASP:HA	2.00	0.44
1:a:307:TYR:HA	1:a:313:ILE:HG22	2.00	0.44
1:a:576:TRP:CZ2	1:b:537:MET:HE2	2.53	0.44
1:b:557:TYR:CE1	1:b:561:LYS:HE2	2.53	0.44
1:c:575:PHE:O	1:c:577:THR:N	2.50	0.44
1:d:575:PHE:HE1	1:e:555:ASN:ND2	2.16	0.44
1:f:29:PHE:CE2	1:f:208:ARG:HB2	2.53	0.44
1:h:451:GLN:NE2	1:h:525:ASP:HB2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:569:TYR:CE2	1:h:573:ASP:HB3	2.53	0.44
1:g:74:PRO:HB2	1:g:78:LYS:NZ	2.33	0.44
1:i:63:ARG:HB3	1:i:66:GLN:HG3	2.00	0.43
1:i:74:PRO:HB2	1:i:78:LYS:HZ1	1.83	0.43
1:a:137:LYS:O	1:a:197:LEU:HD23	2.18	0.43
1:a:225:TYR:HA	1:a:229:ASP:OD2	2.18	0.43
1:a:554:GLN:HB2	1:a:588:LYS:HZ1	1.83	0.43
1:b:146:PRO:HG2	1:b:148:PHE:HD2	1.82	0.43
1:c:139:TYR:CE1	1:c:197:LEU:HD22	2.53	0.43
1:d:528:MET:SD	1:d:529:LEU:HG	2.58	0.43
1:d:587:ALA:HA	1:d:591:ARG:HG2	2.00	0.43
1:e:516:THR:O	1:e:520:GLY:HA3	2.17	0.43
1:e:578:ASN:HA	1:e:583:GLU:OE2	2.18	0.43
1:f:127:ASP:HB3	1:f:133:THR:O	2.18	0.43
1:f:145:LYS:NZ	1:f:186:ARG:HD3	2.33	0.43
1:h:120:VAL:HG23	1:h:121:MET:SD	2.58	0.43
1:h:287:GLU:OE2	1:h:304:ARG:NE	2.51	0.43
1:h:578:ASN:OD1	1:h:584:ALA:HA	2.17	0.43
1:g:44:TYR:CD2	1:g:341:TYR:HE1	2.36	0.43
1:g:72:ILE:HG22	1:g:460:ILE:HD12	2.01	0.43
1:g:131:MET:SD	1:g:201:PRO:HG2	2.58	0.43
1:k:146:PRO:HB3	1:k:189:LYS:HG3	2.00	0.43
1:k:306:LEU:HB3	1:k:314:SER:N	2.30	0.43
1:k:531:LEU:HD12	1:k:532:MET:N	2.32	0.43
1:j:472:VAL:HG12	1:j:510:ARG:NH2	2.33	0.43
1:i:38:ARG:HH11	1:i:131:MET:HE3	1.82	0.43
1:i:191:LYS:HG3	1:i:487:GLN:NE2	2.33	0.43
1:i:211:THR:HG21	1:i:333:HIS:HA	2.00	0.43
1:i:551:VAL:HG21	1:i:559:ILE:CD1	2.49	0.43
1:a:193:GLU:HA	1:a:486:TYR:CE1	2.53	0.43
1:a:369:ARG:CZ	1:a:402:LEU:HD11	2.47	0.43
1:a:554:GLN:OE1	1:a:579:PRO:HA	2.17	0.43
1:a:561:LYS:NZ	1:a:574:ARG:O	2.43	0.43
1:d:86:VAL:HG13	1:d:515:VAL:HG11	1.99	0.43
1:d:289:TYR:HE2	1:d:322:PRO:HD2	1.83	0.43
1:d:506:ASN:OD1	1:d:506:ASN:N	2.50	0.43
1:h:329:TYR:CZ	1:h:343:LYS:HD3	2.53	0.43
1:g:210:ALA:HB3	1:g:335:PHE:HD2	1.84	0.43
1:k:415:LEU:HD23	1:k:415:LEU:HA	1.87	0.43
1:k:554:GLN:CD	1:k:579:PRO:HA	2.43	0.43
1:j:118:PHE:HA	1:j:121:MET:HE1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:11:ASP:HB3	1:a:14:GLN:HG3	2.00	0.43
1:a:22:LEU:HD13	1:a:218:PHE:HB2	2.00	0.43
1:a:116:GLU:CD	1:a:120:VAL:HG13	2.44	0.43
1:a:331:ILE:H	1:a:331:ILE:HD12	1.83	0.43
1:a:379:LEU:HD23	1:a:379:LEU:H	1.83	0.43
1:b:531:LEU:HD12	1:b:532:MET:N	2.32	0.43
1:c:33:GLU:O	1:c:36:LYS:HG2	2.18	0.43
1:c:185:ILE:HG22	1:c:186:ARG:HG3	2.00	0.43
1:c:343:LYS:HD3	1:c:425:ARG:HG3	2.00	0.43
1:c:500:VAL:HG22	1:c:502:VAL:HG22	1.99	0.43
1:c:527:GLN:NE2	1:c:563:VAL:HG13	2.33	0.43
1:d:118:PHE:HA	1:d:121:MET:CE	2.41	0.43
1:d:137:LYS:HA	1:d:322:PRO:O	2.18	0.43
1:d:587:ALA:C	1:d:591:ARG:HE	2.26	0.43
1:h:77:MET:O	1:h:81:THR:OG1	2.26	0.43
1:h:101:GLU:HA	1:h:104:THR:HB	1.99	0.43
1:g:239:VAL:HG23	1:g:241:GLU:HG3	2.00	0.43
1:g:418:LEU:HD23	1:g:418:LEU:HA	1.90	0.43
1:k:65:VAL:HG12	1:k:344:ILE:HB	2.00	0.43
1:k:137:LYS:O	1:k:197:LEU:HD23	2.18	0.43
1:j:27:LEU:O	1:j:31:SER:CB	2.66	0.43
1:i:500:VAL:HG22	1:i:502:VAL:HG22	2.01	0.43
1:a:19:LEU:HD21	1:a:305:ILE:HG13	2.00	0.43
1:a:99:GLN:HA	1:a:102:GLN:HB2	2.01	0.43
1:a:332:ALA:O	1:a:334:LYS:N	2.49	0.43
1:a:591:ARG:NH2	1:b:549:VAL:HG21	2.33	0.43
1:b:329:TYR:OH	1:b:340:VAL:HG12	2.18	0.43
1:b:551:VAL:HG23	1:b:555:ASN:HB3	2.00	0.43
1:c:474:ARG:NH1	1:c:477:GLN:HG2	2.29	0.43
1:d:65:VAL:HG12	1:d:344:ILE:HB	1.99	0.43
1:d:76:LEU:HD22	1:d:80:PHE:HE2	1.82	0.43
1:d:200:LYS:HD3	1:e:333:HIS:CE1	2.53	0.43
1:d:516:THR:OG1	1:d:517:VAL:N	2.50	0.43
1:f:583:GLU:HA	1:f:586:GLN:HE21	1.83	0.43
1:f:587:ALA:C	1:f:591:ARG:HE	2.23	0.43
1:h:23:VAL:HG22	1:h:220:CYS:SG	2.58	0.43
1:g:490:GLU:HB2	1:g:496:ARG:CZ	2.48	0.43
1:k:80:PHE:CZ	1:k:121:MET:HE3	2.53	0.43
1:j:121:MET:O	1:j:124:TRP:HB3	2.18	0.43
1:j:194:ILE:HD12	1:j:486:TYR:HD1	1.83	0.43
1:j:227:VAL:HG22	1:j:281:ARG:HD2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:354:LEU:HD11	1:j:415:LEU:HD21	2.00	0.43
1:i:465:ARG:HD3	1:h:118:PHE:HE1	1.82	0.43
1:a:210:ALA:C	1:a:212:CYS:H	2.27	0.43
1:a:224:LYS:HE3	1:a:283:VAL:O	2.19	0.43
1:b:33:GLU:C	1:b:37:GLN:HE21	2.27	0.43
1:d:71:TRP:CH2	1:d:432:THR:HG22	2.53	0.43
1:d:322:PRO:HA	1:d:474:ARG:HH22	1.84	0.43
1:d:569:TYR:CD2	1:d:573:ASP:HB3	2.53	0.43
1:e:27:LEU:HG	1:e:205:LEU:HD13	1.99	0.43
1:e:210:ALA:C	1:e:212:CYS:H	2.26	0.43
1:e:331:ILE:HG22	1:e:332:ALA:N	2.29	0.43
1:f:125:PHE:O	1:f:128:THR:HG22	2.18	0.43
1:f:463:ILE:HA	1:f:466:MET:HG2	2.00	0.43
1:h:512:ASP:OD1	1:h:512:ASP:N	2.51	0.43
1:k:9:PRO:HB3	1:k:296:GLY:HA2	1.99	0.43
1:k:60:ILE:HB	1:k:356:ARG:HG3	2.01	0.43
1:k:281:ARG:O	1:k:282:GLU:HG3	2.19	0.43
1:k:550:LEU:HD23	1:k:550:LEU:HA	1.77	0.43
1:j:458:GLN:NE2	1:j:459:GLN:H	2.16	0.43
1:i:492:VAL:O	1:i:492:VAL:HG12	2.19	0.43
1:a:74:PRO:HB2	1:a:78:LYS:NZ	2.33	0.43
1:a:200:LYS:O	1:a:203:ASN:N	2.27	0.43
1:c:574:ARG:NH2	1:d:559:ILE:HD11	2.33	0.43
1:d:138:VAL:H	1:d:322:PRO:HB2	1.84	0.43
1:d:522:MET:SD	1:d:522:MET:N	2.91	0.43
1:d:532:MET:O	1:d:536:GLU:HG3	2.18	0.43
1:e:126:GLN:O	1:e:130:MET:N	2.40	0.43
1:e:192:ARG:HH21	1:e:485:LYS:HB3	1.84	0.43
1:e:331:ILE:HD12	1:e:331:ILE:H	1.83	0.43
1:f:109:TYR:O	1:f:114:LYS:HG3	2.19	0.43
1:f:465:ARG:HH12	1:f:513:LEU:HD13	1.84	0.43
1:h:47:GLY:HA3	1:h:63:ARG:CZ	2.48	0.43
1:h:218:PHE:CE1	1:h:220:CYS:HB2	2.54	0.43
1:h:482:HIS:HA	1:h:486:TYR:HB2	2.01	0.43
1:h:527:GLN:HE21	1:h:531:LEU:HD23	1.84	0.43
1:k:98:GLU:OE1	1:k:98:GLU:N	2.43	0.43
1:k:219:LEU:O	1:k:288:CYS:HA	2.17	0.43
1:j:450:ASN:HA	1:j:525:ASP:CB	2.46	0.43
1:i:43:LYS:HZ2	1:i:44:TYR:HE1	1.66	0.43
1:a:63:ARG:HB2	1:b:425:ARG:HH22	1.84	0.43
1:a:69:VAL:HG12	1:a:73:MET:CE	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:74:PRO:HA	1:a:77:MET:HE2	2.00	0.43
1:a:146:PRO:HA	1:a:188:ASP:H	1.84	0.43
1:a:506:ASN:C	1:a:508:ARG:H	2.25	0.43
1:a:557:TYR:CE1	1:a:575:PHE:O	2.72	0.43
1:b:9:PRO:HA	1:b:296:GLY:H	1.83	0.43
1:b:109:TYR:O	1:b:114:LYS:HG3	2.18	0.43
1:b:110:LEU:HA	1:b:114:LYS:HE2	2.01	0.43
1:c:138:VAL:HB	1:c:322:PRO:HB2	2.00	0.43
1:c:147:THR:CG2	1:c:186:ARG:H	2.32	0.43
1:c:291:LEU:HD23	1:c:291:LEU:H	1.83	0.43
1:c:328:ALA:HA	1:c:467:PHE:HE1	1.82	0.43
1:c:409:GLY:HA2	1:c:412:TYR:CD2	2.50	0.43
1:e:449:VAL:HG12	1:e:450:ASN:OD1	2.18	0.43
1:f:339:SER:OG	1:f:340:VAL:N	2.51	0.43
1:g:69:VAL:HA	1:g:72:ILE:HG12	2.00	0.43
1:g:189:LYS:H	1:g:191:LYS:NZ	2.14	0.43
1:j:96:ASP:O	1:j:100:ALA:HB3	2.19	0.43
1:j:108:ASN:O	1:j:112:MET:N	2.32	0.43
1:j:429:THR:HB	1:j:434:GLY:H	1.83	0.43
1:j:554:GLN:OE1	1:j:579:PRO:HA	2.19	0.43
1:a:379:LEU:HD12	1:a:382:LEU:HG	1.99	0.43
1:b:73:MET:N	1:b:74:PRO:HD2	2.34	0.43
1:b:132:LYS:HE2	1:b:132:LYS:HB3	1.88	0.43
1:b:278:GLU:OE2	1:b:280:ASN:HB3	2.19	0.43
1:b:287:GLU:OE2	1:b:304:ARG:NE	2.52	0.43
1:b:474:ARG:NH1	1:b:477:GLN:HG2	2.26	0.43
1:c:536:GLU:O	1:c:539:GLN:HG3	2.18	0.43
1:d:99:GLN:HB3	1:d:103:GLU:HG2	2.00	0.43
1:d:346:ASP:OD1	1:d:346:ASP:N	2.52	0.43
1:e:11:ASP:HB3	1:e:15:VAL:HG13	1.99	0.43
1:e:450:ASN:HA	1:e:525:ASP:CG	2.44	0.43
1:e:507:TRP:O	1:e:509:GLU:HG3	2.19	0.43
1:f:33:GLU:O	1:f:36:LYS:HG2	2.18	0.43
1:f:418:LEU:HD23	1:f:418:LEU:HA	1.89	0.43
1:h:204:PHE:CZ	1:h:219:LEU:HD23	2.53	0.43
1:h:224:LYS:HE3	1:h:283:VAL:O	2.18	0.43
1:k:322:PRO:CA	1:k:474:ARG:HH12	2.32	0.43
1:j:311:TYR:O	1:j:313:ILE:HG23	2.19	0.43
1:i:203:ASN:CB	1:i:222:ARG:HB2	2.47	0.43
1:a:64:ASP:HA	1:a:67:GLU:OE2	2.19	0.43
1:a:138:VAL:HB	1:a:322:PRO:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:99:GLN:HB2	1:b:507:TRP:CZ2	2.53	0.43
1:b:135:VAL:HG23	1:b:325:ASP:H	1.84	0.43
1:b:137:LYS:O	1:b:197:LEU:HD23	2.19	0.43
1:b:331:ILE:HD13	1:b:337:GLY:HA3	2.01	0.43
1:b:576:TRP:CZ3	1:c:550:LEU:HB3	2.53	0.43
1:c:29:PHE:HE2	1:c:208:ARG:HB2	1.83	0.43
1:c:89:TYR:HE2	1:c:103:GLU:HB2	1.84	0.43
1:d:54:ARG:NH2	1:d:57:LYS:HG2	2.34	0.43
1:d:574:ARG:HH21	1:e:555:ASN:ND2	2.17	0.43
1:e:110:LEU:O	1:e:115:ASN:N	2.52	0.43
1:f:31:SER:O	1:f:35:SER:CB	2.63	0.43
1:f:205:LEU:HD11	1:f:222:ARG:HD2	2.01	0.43
1:f:466:MET:HE2	1:f:467:PHE:CD1	2.54	0.43
1:f:476:PHE:HB2	1:f:510:ARG:NH2	2.34	0.43
1:f:554:GLN:O	1:f:557:TYR:HB3	2.18	0.43
1:h:29:PHE:CE2	1:h:208:ARG:HB2	2.54	0.43
1:h:343:LYS:CE	1:h:425:ARG:HG3	2.48	0.43
1:h:360:ASP:C	1:h:364:ARG:HE	2.27	0.43
1:h:554:GLN:OE1	1:h:588:LYS:NZ	2.52	0.43
1:g:34:LEU:HD12	1:g:38:ARG:HH21	1.83	0.43
1:g:143:VAL:HB	1:g:191:LYS:HB2	2.01	0.43
1:k:58:SER:O	1:k:356:ARG:HD3	2.19	0.43
1:k:492:VAL:O	1:k:492:VAL:HG12	2.19	0.43
1:k:525:ASP:HA	1:k:528:MET:CG	2.48	0.43
1:k:591:ARG:O	1:k:595:GLU:HG2	2.19	0.43
1:j:549:VAL:HG21	1:i:591:ARG:HD3	2.00	0.43
1:a:99:GLN:HB3	1:a:103:GLU:HG2	2.00	0.43
1:b:219:LEU:HD13	1:b:289:TYR:HB2	2.01	0.43
1:b:345:ARG:HG3	1:b:346:ASP:N	2.34	0.43
1:b:415:LEU:HA	1:b:418:LEU:HB2	2.01	0.43
1:b:533:ARG:HG3	1:b:534:ILE:N	2.34	0.43
1:c:492:VAL:O	1:c:492:VAL:HG12	2.18	0.43
1:e:376:GLN:HB3	1:e:394:LYS:HG2	2.01	0.43
1:f:132:LYS:HE2	1:f:132:LYS:HB3	1.85	0.43
1:f:227:VAL:HG11	1:f:281:ARG:NH1	2.34	0.43
1:h:135:VAL:HG13	1:h:199:VAL:CG2	2.49	0.43
1:h:214:ASP:HA	1:h:321:ARG:HD2	1.99	0.43
1:h:527:GLN:NE2	1:h:531:LEU:HB3	2.33	0.43
1:g:306:LEU:HD12	1:g:306:LEU:HA	1.88	0.43
1:g:536:GLU:OE2	1:g:537:MET:HG2	2.19	0.43
1:k:53:GLU:HB3	1:k:59:GLY:HA2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:115:ASN:C	1:j:116:GLU:HG3	2.44	0.42
1:j:306:LEU:CB	1:j:314:SER:H	2.25	0.42
1:a:71:TRP:HH2	1:a:432:THR:HG22	1.84	0.42
1:a:76:LEU:HA	1:a:79:VAL:HG12	2.00	0.42
1:a:291:LEU:HD23	1:a:291:LEU:H	1.83	0.42
1:a:492:VAL:O	1:a:492:VAL:HG12	2.18	0.42
1:a:496:ARG:HB2	1:b:93:THR:OG1	2.19	0.42
1:b:354:LEU:HD12	1:b:355:MET:N	2.34	0.42
1:b:550:LEU:HA	1:b:550:LEU:HD23	1.65	0.42
1:c:13:GLU:HA	1:c:16:LEU:HD13	2.01	0.42
1:c:29:PHE:CE2	1:c:208:ARG:HB2	2.54	0.42
1:c:143:VAL:O	1:c:190:LYS:N	2.47	0.42
1:c:331:ILE:H	1:c:331:ILE:HD12	1.84	0.42
1:c:412:TYR:O	1:c:415:LEU:HB2	2.19	0.42
1:d:135:VAL:HG23	1:d:324:ALA:H	1.83	0.42
1:e:33:GLU:HA	1:e:36:LYS:HZ2	1.84	0.42
1:e:39:SER:HB2	1:e:43:LYS:HZ3	1.83	0.42
1:f:88:LYS:HG2	1:f:89:TYR:H	1.84	0.42
1:f:587:ALA:O	1:f:591:ARG:NE	2.41	0.42
1:h:207:ASP:HB2	1:h:209:LEU:HG	2.01	0.42
1:g:33:GLU:O	1:g:36:LYS:HG2	2.19	0.42
1:k:14:GLN:HA	1:k:17:ARG:HG2	2.00	0.42
1:k:583:GLU:HG2	1:k:584:ALA:N	2.34	0.42
1:k:591:ARG:NE	1:a:549:VAL:HG21	2.35	0.42
1:j:116:GLU:OE2	1:j:120:VAL:HG22	2.20	0.42
1:j:498:LYS:NZ	1:j:499:TRP:O	2.39	0.42
1:i:551:VAL:HG23	1:i:555:ASN:HB3	2.01	0.42
1:i:581:SER:N	1:i:584:ALA:HB3	2.34	0.42
1:a:29:PHE:CZ	1:a:208:ARG:HD2	2.54	0.42
1:a:193:GLU:HA	1:a:486:TYR:HE1	1.84	0.42
1:a:303:ARG:HE	1:a:316:GLU:C	2.27	0.42
1:b:34:LEU:C	1:b:38:ARG:HE	2.27	0.42
1:b:91:PRO:HG3	1:b:100:ALA:CB	2.49	0.42
1:b:342:ASP:HA	1:b:345:ARG:CZ	2.49	0.42
1:b:519:ILE:O	1:b:521:ASN:N	2.52	0.42
1:b:521:ASN:O	1:b:526:GLN:HB2	2.19	0.42
1:b:554:GLN:OE1	1:b:579:PRO:HA	2.19	0.42
1:c:115:ASN:O	1:c:116:GLU:HG3	2.19	0.42
1:d:22:LEU:HD23	1:d:22:LEU:HA	1.86	0.42
1:d:97:VAL:HA	1:d:101:GLU:CD	2.44	0.42
1:d:550:LEU:HD23	1:d:550:LEU:HA	1.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:556:LEU:HA	1:d:559:ILE:HD12	2.00	0.42
1:e:45:TYR:HB3	1:e:130:MET:HE1	2.00	0.42
1:e:493:PHE:O	1:e:495:LEU:HG	2.18	0.42
1:f:72:ILE:HA	1:f:460:ILE:HD13	2.01	0.42
1:h:29:PHE:HE2	1:h:208:ARG:HB2	1.84	0.42
1:h:205:LEU:HD11	1:h:222:ARG:HD2	2.00	0.42
1:h:490:GLU:CD	1:h:497:GLY:H	2.27	0.42
1:k:125:PHE:O	1:k:128:THR:HG22	2.19	0.42
1:k:135:VAL:HG23	1:k:325:ASP:H	1.85	0.42
1:k:537:MET:HE3	1:j:560:LEU:HD13	2.01	0.42
1:j:487:GLN:HG2	1:j:489:GLN:HE22	1.83	0.42
1:i:116:GLU:OE1	1:i:120:VAL:HG13	2.19	0.42
1:i:225:TYR:HA	1:i:229:ASP:OD2	2.18	0.42
1:a:224:LYS:HA	1:a:224:LYS:HD2	1.61	0.42
1:a:306:LEU:HB3	1:a:314:SER:N	2.31	0.42
1:a:429:THR:HB	1:a:434:GLY:H	1.85	0.42
1:a:541:VAL:HG13	1:a:550:LEU:HD12	2.01	0.42
1:a:541:VAL:O	1:a:545:GLY:N	2.52	0.42
1:a:558:ASN:O	1:a:561:LYS:HB2	2.19	0.42
1:b:74:PRO:HB2	1:b:78:LYS:NZ	2.35	0.42
1:b:194:ILE:HB	1:b:482:HIS:CE1	2.53	0.42
1:b:303:ARG:HE	1:b:316:GLU:C	2.28	0.42
1:c:88:LYS:HG3	1:c:89:TYR:N	2.34	0.42
1:d:199:VAL:HB	1:d:221:HIS:CE1	2.54	0.42
1:d:239:VAL:HG23	1:d:241:GLU:HG3	2.01	0.42
1:d:302:LEU:HD11	1:d:321:ARG:HH21	1.84	0.42
1:e:119:LYS:HZ2	1:e:122:PHE:HD2	1.66	0.42
1:e:205:LEU:HD12	1:e:220:CYS:SG	2.59	0.42
1:h:204:PHE:HZ	1:h:219:LEU:HD23	1.84	0.42
1:h:475:LEU:HD23	1:h:475:LEU:HA	1.91	0.42
1:g:559:ILE:HA	1:g:562:GLU:OE1	2.20	0.42
1:k:73:MET:HA	1:k:76:LEU:HD12	2.01	0.42
1:k:109:TYR:HD1	1:k:113:ARG:HH21	1.68	0.42
1:k:340:VAL:O	1:k:344:ILE:HG12	2.19	0.42
1:k:430:ASP:OD1	1:k:430:ASP:N	2.53	0.42
1:k:530:HIS:CE1	1:k:562:GLU:HB2	2.54	0.42
1:j:143:VAL:HG23	1:j:191:LYS:O	2.19	0.42
1:j:335:PHE:HD2	1:j:336:HIS:CD2	2.38	0.42
1:j:415:LEU:HD23	1:j:415:LEU:HA	1.82	0.42
1:j:487:GLN:CG	1:j:489:GLN:HE22	2.32	0.42
1:i:33:GLU:C	1:i:37:GLN:HE21	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:106:TYR:CD1	1:a:498:LYS:HE3	2.54	0.42
1:a:235:VAL:HB	1:a:311:TYR:CE2	2.54	0.42
1:a:347:ILE:HG21	1:a:422:ARG:HB2	2.00	0.42
1:a:563:VAL:HG12	1:b:533:ARG:HE	1.83	0.42
1:b:462:LEU:O	1:b:465:ARG:HB3	2.19	0.42
1:b:491:GLU:N	1:b:498:LYS:HB3	2.34	0.42
1:d:185:ILE:HG22	1:d:186:ARG:HG3	2.02	0.42
1:e:73:MET:N	1:e:74:PRO:HD2	2.34	0.42
1:e:135:VAL:O	1:e:199:VAL:HG22	2.19	0.42
1:f:132:LYS:HE3	1:f:338:MET:HA	2.01	0.42
1:h:36:LYS:HE3	1:h:37:GLN:HG3	2.01	0.42
1:h:116:GLU:OE1	1:h:119:LYS:HB3	2.19	0.42
1:h:505:ALA:HB3	1:h:507:TRP:CZ2	2.55	0.42
1:h:551:VAL:HG23	1:h:555:ASN:HB3	2.00	0.42
1:h:564:THR:HB	1:h:574:ARG:HG3	2.01	0.42
1:g:18:HIS:HD1	1:g:292:LEU:HD11	1.84	0.42
1:g:341:TYR:CE1	1:g:345:ARG:HB3	2.54	0.42
1:k:65:VAL:O	1:k:69:VAL:HG23	2.20	0.42
1:j:135:VAL:HG13	1:j:199:VAL:CG2	2.50	0.42
1:j:189:LYS:O	1:j:190:LYS:HG3	2.19	0.42
1:j:220:CYS:HA	1:j:287:GLU:O	2.20	0.42
1:j:565:GLU:HG3	1:j:570:LYS:HA	2.01	0.42
1:i:29:PHE:CZ	1:i:208:ARG:HD2	2.55	0.42
1:a:141:GLU:HB2	1:a:193:GLU:OE2	2.19	0.42
1:a:465:ARG:NE	1:a:469:GLU:HG2	2.35	0.42
1:a:468:ALA:O	1:a:472:VAL:HG23	2.20	0.42
1:b:561:LYS:O	1:b:562:GLU:C	2.59	0.42
1:c:278:GLU:OE2	1:c:280:ASN:HB3	2.19	0.42
1:c:491:GLU:HG3	1:c:498:LYS:HG2	2.01	0.42
1:c:551:VAL:HG21	1:c:559:ILE:CD1	2.50	0.42
1:d:137:LYS:O	1:d:197:LEU:HD23	2.19	0.42
1:d:557:TYR:HE1	1:d:561:LYS:HE2	1.83	0.42
1:e:29:PHE:CE2	1:e:208:ARG:HD2	2.54	0.42
1:e:127:ASP:OD1	1:e:131:MET:HE2	2.19	0.42
1:e:241:GLU:CD	1:e:281:ARG:HB3	2.45	0.42
1:h:318:TRP:NE1	1:h:322:PRO:HD3	2.30	0.42
1:h:327:ASN:HB2	1:h:337:GLY:HA3	2.00	0.42
1:h:550:LEU:HD23	1:h:550:LEU:HA	1.85	0.42
1:k:94:ALA:N	1:j:496:ARG:HH21	2.05	0.42
1:k:327:ASN:HD21	1:k:330:ARG:HA	1.84	0.42
1:j:132:LYS:HE2	1:j:132:LYS:HB3	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:474:ARG:NE	1:j:474:ARG:HA	2.34	0.42
1:j:485:LYS:HA	1:j:502:VAL:HG12	2.02	0.42
1:i:116:GLU:OE1	1:i:119:LYS:HB3	2.19	0.42
1:i:534:ILE:HD13	1:i:534:ILE:HA	1.95	0.42
1:i:535:TRP:O	1:i:539:GLN:HG2	2.18	0.42
1:a:213:ILE:HD11	1:a:323:PHE:HB2	2.01	0.42
1:a:591:ARG:CZ	1:b:549:VAL:HG21	2.50	0.42
1:b:461:ASP:HB3	1:b:517:VAL:HG22	2.02	0.42
1:b:527:GLN:NE2	1:b:563:VAL:HG13	2.34	0.42
1:c:137:LYS:O	1:c:197:LEU:HD23	2.20	0.42
1:c:306:LEU:HB3	1:c:314:SER:N	2.33	0.42
1:c:525:ASP:HA	1:c:528:MET:HG3	2.00	0.42
1:d:34:LEU:HD11	1:d:336:HIS:HB3	2.00	0.42
1:d:484:ILE:HG23	1:d:485:LYS:N	2.35	0.42
1:e:131:MET:HE3	1:e:201:PRO:HD2	2.01	0.42
1:f:34:LEU:HD13	1:f:34:LEU:HA	1.87	0.42
1:f:145:LYS:O	1:f:188:ASP:HB2	2.20	0.42
1:f:187:LYS:O	1:f:191:LYS:NZ	2.48	0.42
1:f:492:VAL:HG12	1:f:492:VAL:O	2.19	0.42
1:f:530:HIS:NE2	1:f:562:GLU:OE1	2.53	0.42
1:f:589:ALA:O	1:f:593:GLN:HG2	2.20	0.42
1:h:194:ILE:HB	1:h:482:HIS:NE2	2.34	0.42
1:g:105:GLU:OE2	1:g:109:TYR:HB2	2.20	0.42
1:g:554:GLN:O	1:g:557:TYR:HB3	2.18	0.42
1:j:27:LEU:HG	1:j:205:LEU:HD13	2.01	0.42
1:j:112:MET:HE1	1:j:121:MET:HE1	2.01	0.42
1:i:23:VAL:HA	1:i:218:PHE:HZ	1.85	0.42
1:i:31:SER:O	1:i:35:SER:CB	2.61	0.42
1:a:109:TYR:O	1:a:114:LYS:HG3	2.20	0.42
1:a:376:GLN:HB3	1:a:394:LYS:HE3	2.02	0.42
1:b:557:TYR:CE1	1:b:575:PHE:O	2.72	0.42
1:c:34:LEU:HB3	1:c:38:ARG:NH2	2.21	0.42
1:c:115:ASN:C	1:c:116:GLU:HG3	2.44	0.42
1:e:135:VAL:HG23	1:e:324:ALA:H	1.84	0.42
1:f:527:GLN:HE21	1:f:531:LEU:HD23	1.85	0.42
1:f:577:THR:HG23	1:f:578:ASN:N	2.33	0.42
1:g:224:LYS:HA	1:g:224:LYS:HD2	1.76	0.42
1:k:557:TYR:HE1	1:k:561:LYS:HE2	1.85	0.42
1:k:565:GLU:CG	1:k:570:LYS:HG3	2.50	0.42
1:j:493:PHE:O	1:j:495:LEU:HG	2.20	0.42
1:i:506:ASN:C	1:i:508:ARG:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:128:THR:OG1	1:a:328:ALA:N	2.52	0.42
1:b:110:LEU:HA	1:b:114:LYS:HB2	2.02	0.42
1:b:118:PHE:HB2	1:b:121:MET:SD	2.60	0.42
1:b:215:ASP:O	1:b:217:ARG:NH1	2.50	0.42
1:b:484:ILE:HG23	1:b:485:LYS:N	2.34	0.42
1:b:552:SER:O	1:b:556:LEU:N	2.31	0.42
1:d:575:PHE:HE1	1:e:555:ASN:HD22	1.68	0.42
1:e:42:LEU:HD12	1:e:130:MET:HE2	2.02	0.42
1:e:95:GLU:HB3	1:e:507:TRP:CH2	2.55	0.42
1:e:238:ASP:HB2	1:e:241:GLU:OE2	2.19	0.42
1:e:552:SER:O	1:e:556:LEU:N	2.23	0.42
1:f:29:PHE:CE2	1:f:208:ARG:HD2	2.55	0.42
1:h:27:LEU:HD21	1:h:222:ARG:NH1	2.34	0.42
1:h:329:TYR:OH	1:h:340:VAL:HG12	2.18	0.42
1:g:506:ASN:OD1	1:g:508:ARG:HD3	2.20	0.42
1:k:295:ASP:HB2	1:k:297:ASP:CG	2.45	0.42
1:k:474:ARG:NE	1:k:474:ARG:HA	2.34	0.42
1:j:88:LYS:HG2	1:j:89:TYR:N	2.29	0.42
1:j:129:LEU:CD1	1:j:130:MET:HG2	2.49	0.42
1:i:64:ASP:OD2	1:i:422:ARG:HG3	2.20	0.42
1:i:480:HIS:O	1:i:484:ILE:HG22	2.19	0.42
1:i:554:GLN:OE1	1:i:579:PRO:HA	2.20	0.42
1:a:506:ASN:OD1	1:a:506:ASN:N	2.52	0.42
1:b:22:LEU:HD13	1:b:218:PHE:HB2	2.00	0.42
1:b:576:TRP:CZ2	1:c:537:MET:HE2	2.55	0.42
1:c:478:LEU:HD12	1:c:479:LEU:N	2.35	0.42
1:d:128:THR:HG23	1:d:328:ALA:HB2	2.00	0.42
1:d:210:ALA:C	1:d:212:CYS:H	2.26	0.42
1:d:463:ILE:HA	1:d:466:MET:HG3	2.02	0.42
1:d:472:VAL:HG12	1:d:510:ARG:HH21	1.85	0.42
1:d:474:ARG:NH1	1:d:477:GLN:HG2	2.30	0.42
1:d:554:GLN:OE1	1:d:579:PRO:HA	2.20	0.42
1:d:556:LEU:HD12	1:d:559:ILE:HD12	2.02	0.42
1:e:27:LEU:O	1:e:31:SER:CB	2.67	0.42
1:e:446:ALA:HB1	1:e:449:VAL:HG23	2.02	0.42
1:e:527:GLN:HB2	1:e:566:ASN:HB3	2.00	0.42
1:e:533:ARG:O	1:e:536:GLU:HG3	2.20	0.42
1:f:95:GLU:HB3	1:f:507:TRP:CH2	2.54	0.42
1:f:218:PHE:HD1	1:f:288:CYS:HG	1.68	0.42
1:f:522:MET:N	1:f:522:MET:SD	2.84	0.42
1:g:34:LEU:HD13	1:g:34:LEU:HA	1.94	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:225:TYR:CE2	1:g:306:LEU:HD11	2.54	0.42
1:g:492:VAL:O	1:g:492:VAL:HG12	2.18	0.42
1:k:557:TYR:CE1	1:k:561:LYS:HE2	2.55	0.42
1:j:210:ALA:C	1:j:212:CYS:H	2.27	0.42
1:j:575:PHE:O	1:j:577:THR:N	2.53	0.42
1:i:111:PHE:HZ	1:i:121:MET:HG3	1.84	0.42
1:a:228:SER:OG	1:b:299:ILE:HG12	2.20	0.42
1:b:37:GLN:HB3	1:b:132:LYS:HD3	2.00	0.42
1:b:331:ILE:HG22	1:b:332:ALA:N	2.34	0.42
1:b:561:LYS:NZ	1:b:571:ASP:HA	2.35	0.42
1:b:561:LYS:HD3	1:b:561:LYS:HA	1.90	0.42
1:c:484:ILE:HG23	1:c:485:LYS:N	2.35	0.42
1:d:73:MET:N	1:d:74:PRO:HD2	2.35	0.42
1:d:302:LEU:HD21	1:d:321:ARG:NH2	2.33	0.42
1:d:328:ALA:HA	1:d:467:PHE:CE1	2.52	0.42
1:d:490:GLU:OE2	1:d:496:ARG:HD3	2.20	0.42
1:e:89:TYR:HE1	1:e:510:ARG:HG3	1.84	0.42
1:e:561:LYS:O	1:e:564:THR:N	2.53	0.42
1:f:199:VAL:HB	1:f:221:HIS:CE1	2.55	0.42
1:g:527:GLN:OE1	1:g:566:ASN:HB2	2.20	0.42
1:k:136:VAL:HA	1:k:199:VAL:HG13	2.01	0.41
1:k:549:VAL:HG13	1:k:550:LEU:H	1.85	0.41
1:k:551:VAL:CG2	1:k:555:ASN:HB3	2.50	0.41
1:j:189:LYS:C	1:j:190:LYS:HG3	2.45	0.41
1:j:341:TYR:CE1	1:j:345:ARG:HB3	2.54	0.41
1:j:561:LYS:O	1:j:562:GLU:C	2.62	0.41
1:i:528:MET:O	1:i:531:LEU:HG	2.20	0.41
1:i:541:VAL:HG13	1:i:550:LEU:HD12	2.01	0.41
1:i:592:GLU:O	1:i:595:GLU:HG3	2.20	0.41
1:a:96:ASP:HA	1:a:100:ALA:HB3	2.01	0.41
1:a:211:THR:H	1:a:335:PHE:HB2	1.85	0.41
1:a:574:ARG:NH2	1:b:555:ASN:OD1	2.53	0.41
1:b:492:VAL:HA	1:c:93:THR:HG23	2.02	0.41
1:c:73:MET:N	1:c:74:PRO:HD2	2.35	0.41
1:c:118:PHE:O	1:c:121:MET:HG3	2.20	0.41
1:d:459:GLN:NE2	1:d:460:ILE:HD13	2.35	0.41
1:e:31:SER:O	1:e:35:SER:CB	2.57	0.41
1:e:200:LYS:O	1:e:202:GLU:N	2.53	0.41
1:f:352:SER:HA	1:f:355:MET:HE2	2.01	0.41
1:h:516:THR:O	1:h:518:GLY:N	2.53	0.41
1:g:219:LEU:O	1:g:288:CYS:HA	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:561:LYS:HD3	1:k:561:LYS:HA	1.89	0.41
1:j:60:ILE:O	1:j:356:ARG:NH2	2.43	0.41
1:j:205:LEU:N	1:j:220:CYS:O	2.53	0.41
1:j:207:ASP:OD1	1:j:207:ASP:N	2.51	0.41
1:i:341:TYR:CE1	1:i:345:ARG:HB3	2.56	0.41
1:i:591:ARG:HD2	1:i:592:GLU:HB2	2.02	0.41
1:a:41:ALA:HA	1:a:341:TYR:CD1	2.55	0.41
1:a:302:LEU:O	1:a:303:ARG:HD2	2.21	0.41
1:a:465:ARG:HH21	1:a:469:GLU:N	2.18	0.41
1:c:330:ARG:N	1:c:466:MET:HE3	2.35	0.41
1:e:77:MET:HE1	1:e:121:MET:SD	2.60	0.41
1:e:207:ASP:OD1	1:e:207:ASP:N	2.51	0.41
1:f:44:TYR:HB2	1:f:341:TYR:CE1	2.53	0.41
1:f:205:LEU:N	1:f:220:CYS:O	2.53	0.41
1:f:581:SER:H	1:f:584:ALA:HB3	1.85	0.41
1:h:18:HIS:O	1:h:21:GLN:HG3	2.20	0.41
1:g:522:MET:SD	1:g:522:MET:N	2.93	0.41
1:k:141:GLU:N	1:k:193:GLU:OE2	2.53	0.41
1:k:556:LEU:HA	1:k:559:ILE:HB	2.01	0.41
1:j:528:MET:O	1:j:531:LEU:HG	2.21	0.41
1:a:105:GLU:HG3	1:a:493:PHE:CD1	2.56	0.41
1:a:476:PHE:CE1	1:a:506:ASN:HB2	2.53	0.41
1:c:528:MET:O	1:c:531:LEU:HG	2.21	0.41
1:c:575:PHE:N	1:c:576:TRP:HD1	2.18	0.41
1:d:350:ILE:HG22	1:d:418:LEU:HD11	2.01	0.41
1:e:49:PRO:HB3	1:e:53:GLU:HG3	2.01	0.41
1:f:225:TYR:HE2	1:f:306:LEU:HD11	1.85	0.41
1:h:143:VAL:HB	1:h:191:LYS:CB	2.49	0.41
1:g:135:VAL:HB	1:g:325:ASP:HA	2.03	0.41
1:k:77:MET:O	1:k:81:THR:OG1	2.31	0.41
1:k:530:HIS:CE1	1:k:534:ILE:HG13	2.56	0.41
1:j:74:PRO:HB2	1:j:78:LYS:HZ2	1.84	0.41
1:j:200:LYS:O	1:j:202:GLU:N	2.53	0.41
1:j:205:LEU:HD11	1:j:222:ARG:HD2	2.01	0.41
1:j:506:ASN:C	1:j:508:ARG:H	2.28	0.41
1:i:77:MET:O	1:i:81:THR:OG1	2.37	0.41
1:i:591:ARG:HD2	1:i:592:GLU:N	2.34	0.41
1:a:461:ASP:HB3	1:a:517:VAL:CG2	2.51	0.41
1:b:590:ILE:HA	1:b:594:LYS:HZ3	1.85	0.41
1:c:105:GLU:O	1:c:109:TYR:HB3	2.21	0.41
1:c:219:LEU:HD11	1:c:321:ARG:NH1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:143:VAL:HG23	1:d:191:LYS:O	2.21	0.41
1:d:331:ILE:H	1:d:331:ILE:HD12	1.84	0.41
1:e:303:ARG:HH21	1:e:316:GLU:N	2.18	0.41
1:f:578:ASN:OD1	1:f:584:ALA:HA	2.20	0.41
1:k:332:ALA:O	1:k:334:LYS:N	2.53	0.41
1:k:465:ARG:HH22	1:k:512:ASP:CG	2.28	0.41
1:j:45:TYR:CE2	1:j:66:GLN:HG2	2.56	0.41
1:j:331:ILE:HG22	1:j:332:ALA:N	2.32	0.41
1:j:332:ALA:O	1:j:334:LYS:N	2.53	0.41
1:j:516:THR:OG1	1:j:517:VAL:N	2.53	0.41
1:i:22:LEU:HD23	1:i:22:LEU:HA	1.85	0.41
1:i:210:ALA:C	1:i:212:CYS:H	2.28	0.41
1:a:346:ASP:OD1	1:a:347:ILE:N	2.54	0.41
1:a:476:PHE:HB2	1:a:510:ARG:CZ	2.50	0.41
1:b:37:GLN:O	1:b:40:GLU:HG2	2.20	0.41
1:b:420:ALA:O	1:b:424:LYS:HG2	2.20	0.41
1:c:54:ARG:NH2	1:c:57:LYS:HG2	2.35	0.41
1:c:103:GLU:O	1:c:107:VAL:HG13	2.20	0.41
1:c:523:ASN:O	1:c:527:GLN:CB	2.67	0.41
1:c:561:LYS:HD3	1:c:561:LYS:HA	1.85	0.41
1:c:587:ALA:C	1:c:591:ARG:HE	2.24	0.41
1:d:34:LEU:HB3	1:d:38:ARG:NH2	2.18	0.41
1:d:124:TRP:CZ2	1:d:324:ALA:HB1	2.55	0.41
1:d:360:ASP:HA	1:d:363:TYR:CD2	2.56	0.41
1:e:466:MET:HA	1:e:469:GLU:HG3	2.02	0.41
1:e:522:MET:SD	1:e:525:ASP:HB3	2.60	0.41
1:f:23:VAL:HA	1:f:218:PHE:HZ	1.86	0.41
1:f:323:PHE:O	1:f:474:ARG:NE	2.54	0.41
1:f:426:THR:O	1:f:458:GLN:NE2	2.53	0.41
1:h:69:VAL:O	1:h:73:MET:HG2	2.21	0.41
1:g:110:LEU:O	1:g:115:ASN:N	2.53	0.41
1:g:210:ALA:C	1:g:212:CYS:H	2.27	0.41
1:k:34:LEU:HD11	1:k:336:HIS:HB3	2.03	0.41
1:k:119:LYS:HZ3	1:a:330:ARG:HG3	1.85	0.41
1:k:194:ILE:HD12	1:k:486:TYR:HD1	1.86	0.41
1:k:224:LYS:HA	1:k:224:LYS:HD2	1.77	0.41
1:k:581:SER:N	1:k:584:ALA:HB3	2.32	0.41
1:j:73:MET:HE2	1:j:129:LEU:HD21	2.03	0.41
1:j:75:SER:N	1:j:78:LYS:HZ3	2.18	0.41
1:i:557:TYR:CE1	1:i:577:THR:HA	2.55	0.41
1:a:329:TYR:OH	1:a:343:LYS:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:527:GLN:OE1	1:a:563:VAL:HA	2.21	0.41
1:a:577:THR:HG23	1:a:578:ASN:H	1.85	0.41
1:d:327:ASN:HB2	1:d:337:GLY:HA3	2.02	0.41
1:d:482:HIS:CD2	1:d:486:TYR:HB2	2.55	0.41
1:f:194:ILE:HB	1:f:482:HIS:NE2	2.36	0.41
1:f:218:PHE:CE1	1:f:220:CYS:HB2	2.55	0.41
1:f:554:GLN:OE1	1:f:579:PRO:HA	2.21	0.41
1:g:129:LEU:O	1:g:340:VAL:HG22	2.21	0.41
1:k:307:TYR:HA	1:k:313:ILE:HG22	2.02	0.41
1:k:484:ILE:HG23	1:k:485:LYS:N	2.32	0.41
1:k:517:VAL:O	1:k:517:VAL:HG12	2.20	0.41
1:j:306:LEU:O	1:j:308:VAL:HG23	2.21	0.41
1:i:137:LYS:O	1:i:197:LEU:HD23	2.21	0.41
1:i:194:ILE:HD12	1:i:486:TYR:HD1	1.85	0.41
1:a:11:ASP:HB2	1:a:294:VAL:HG12	2.02	0.41
1:a:227:VAL:CG2	1:a:281:ARG:HB2	2.50	0.41
1:a:293:ASP:OD1	1:a:293:ASP:N	2.47	0.41
1:a:524:LYS:HD2	1:a:524:LYS:N	2.36	0.41
1:b:54:ARG:NH2	1:b:57:LYS:HG2	2.36	0.41
1:c:111:PHE:HE1	1:c:196:VAL:HG11	1.84	0.41
1:c:565:GLU:HG3	1:c:570:LYS:CG	2.50	0.41
1:d:73:MET:SD	1:d:76:LEU:HD12	2.61	0.41
1:e:27:LEU:HA	1:e:205:LEU:HD22	2.02	0.41
1:e:466:MET:O	1:e:469:GLU:HG3	2.21	0.41
1:e:525:ASP:HA	1:e:528:MET:HG3	2.02	0.41
1:f:201:PRO:HA	1:f:204:PHE:HB2	2.01	0.41
1:f:452:LEU:HD12	1:f:452:LEU:HA	1.96	0.41
1:f:527:GLN:OE1	1:f:566:ASN:ND2	2.54	0.41
1:g:204:PHE:HZ	1:g:219:LEU:HD23	1.84	0.41
1:g:411:VAL:O	1:g:414:MET:HB3	2.20	0.41
1:k:57:LYS:HD3	1:k:57:LYS:HA	1.87	0.41
1:k:124:TRP:HD1	1:k:136:VAL:HG13	1.85	0.41
1:j:293:ASP:OD1	1:j:293:ASP:N	2.48	0.41
1:i:109:TYR:HA	1:i:113:ARG:NH2	2.36	0.41
1:b:358:ILE:HG21	1:b:412:TYR:CE2	2.56	0.41
1:c:65:VAL:O	1:c:69:VAL:HG23	2.20	0.41
1:d:135:VAL:HB	1:d:325:ASP:HA	2.01	0.41
1:d:430:ASP:OD1	1:d:430:ASP:N	2.53	0.41
1:d:468:ALA:O	1:d:472:VAL:HG23	2.21	0.41
1:e:215:ASP:O	1:e:217:ARG:NH1	2.51	0.41
1:f:36:LYS:O	1:f:39:SER:OG	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:585:LEU:O	1:h:589:ALA:HB3	2.20	0.41
1:k:19:LEU:HD21	1:k:305:ILE:HG13	2.03	0.41
1:k:131:MET:HE1	1:k:202:GLU:H	1.86	0.41
1:k:278:GLU:OE2	1:k:280:ASN:HB3	2.20	0.41
1:k:351:ARG:HG2	1:k:355:MET:CE	2.51	0.41
1:j:99:GLN:HG3	1:j:499:TRP:CH2	2.56	0.41
1:j:351:ARG:O	1:j:354:LEU:HG	2.21	0.41
1:i:135:VAL:HG13	1:i:199:VAL:CG2	2.51	0.41
1:i:199:VAL:HB	1:i:221:HIS:CE1	2.56	0.41
1:i:359:MET:HA	1:i:362:ILE:HB	2.02	0.41
1:i:577:THR:HG23	1:i:578:ASN:N	2.34	0.41
1:a:89:TYR:HD2	1:a:100:ALA:HA	1.85	0.41
1:a:103:GLU:HG3	1:a:504:PRO:HB3	2.02	0.41
1:a:328:ALA:HA	1:a:467:PHE:CZ	2.56	0.41
1:a:498:LYS:HD2	1:a:499:TRP:CE3	2.56	0.41
1:a:581:SER:N	1:a:584:ALA:HB3	2.31	0.41
1:b:414:MET:HA	1:b:417:ARG:NE	2.36	0.41
1:b:414:MET:HG3	1:b:417:ARG:NE	2.36	0.41
1:b:430:ASP:N	1:b:430:ASP:OD1	2.54	0.41
1:b:490:GLU:HA	1:b:498:LYS:HB3	2.03	0.41
1:b:565:GLU:HG3	1:b:570:LYS:HG3	2.01	0.41
1:c:289:TYR:HE2	1:c:322:PRO:HD2	1.86	0.41
1:c:306:LEU:CB	1:c:314:SER:H	2.32	0.41
1:d:227:VAL:CG2	1:d:281:ARG:HB2	2.51	0.41
1:d:372:VAL:HG11	1:d:377:VAL:HG11	2.02	0.41
1:d:530:HIS:O	1:d:534:ILE:HG12	2.21	0.41
1:e:137:LYS:O	1:e:197:LEU:HD23	2.21	0.41
1:h:87:VAL:CG1	1:h:510:ARG:HB3	2.51	0.41
1:h:205:LEU:HD12	1:h:220:CYS:SG	2.61	0.41
1:h:575:PHE:CG	1:h:576:TRP:N	2.88	0.41
1:g:11:ASP:HB3	1:g:14:GLN:HG3	2.02	0.41
1:g:44:TYR:CG	1:g:341:TYR:HE1	2.38	0.41
1:g:241:GLU:HG2	1:g:283:VAL:HA	2.02	0.41
1:g:351:ARG:HG2	1:g:355:MET:HE2	2.02	0.41
1:g:473:LYS:HE3	1:g:474:ARG:NH2	2.36	0.41
1:i:38:ARG:HB2	1:i:131:MET:HA	2.03	0.41
1:i:105:GLU:OE1	1:i:493:PHE:HB2	2.21	0.41
1:a:44:TYR:CE2	1:a:345:ARG:HB2	2.55	0.41
1:a:579:PRO:HD2	1:a:581:SER:OG	2.21	0.41
1:b:68:THR:O	1:b:71:TRP:HB2	2.21	0.41
1:b:76:LEU:HA	1:b:79:VAL:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:291:LEU:HD23	1:b:291:LEU:H	1.86	0.41
1:c:127:ASP:HB3	1:c:133:THR:O	2.20	0.41
1:c:530:HIS:NE2	1:c:562:GLU:HB2	2.36	0.41
1:d:475:LEU:HD23	1:d:475:LEU:HA	1.94	0.41
1:e:105:GLU:HG3	1:e:493:PHE:CD1	2.56	0.41
1:e:147:THR:HG22	1:e:186:ARG:H	1.86	0.41
1:e:424:LYS:HA	1:e:428:ILE:HG22	2.01	0.41
1:e:554:GLN:OE1	1:e:579:PRO:HA	2.20	0.41
1:f:33:GLU:C	1:f:37:GLN:HE21	2.28	0.41
1:h:141:GLU:CD	1:h:195:LYS:HZ1	2.29	0.41
1:h:530:HIS:HA	1:h:533:ARG:HG2	2.03	0.41
1:g:137:LYS:O	1:g:197:LEU:HD23	2.21	0.41
1:g:535:TRP:O	1:g:539:GLN:HG2	2.21	0.41
1:g:574:ARG:HD3	1:g:576:TRP:HE1	1.85	0.41
1:k:225:TYR:HA	1:k:229:ASP:OD2	2.21	0.40
1:k:302:LEU:HB2	1:k:318:TRP:O	2.21	0.40
1:j:146:PRO:HG2	1:j:148:PHE:CE2	2.56	0.40
1:j:210:ALA:HB3	1:j:335:PHE:CD1	2.56	0.40
1:i:11:ASP:HB3	1:i:15:VAL:HG13	2.03	0.40
1:i:137:LYS:HA	1:i:322:PRO:O	2.21	0.40
1:i:483:ALA:CB	1:i:504:PRO:HD2	2.51	0.40
1:a:433:ARG:HG3	1:a:455:ALA:HB2	2.02	0.40
1:b:523:ASN:O	1:b:527:GLN:HB3	2.20	0.40
1:b:524:LYS:N	1:b:524:LYS:HD2	2.35	0.40
1:d:219:LEU:HD11	1:d:321:ARG:CZ	2.51	0.40
1:f:14:GLN:O	1:f:17:ARG:HG3	2.21	0.40
1:f:550:LEU:HD23	1:f:550:LEU:HA	1.81	0.40
1:h:73:MET:CE	1:h:129:LEU:HD21	2.52	0.40
1:h:132:LYS:HE2	1:h:132:LYS:HB3	1.92	0.40
1:h:351:ARG:O	1:h:355:MET:HG3	2.21	0.40
1:h:360:ASP:O	1:h:364:ARG:NE	2.49	0.40
1:h:514:THR:C	1:h:520:GLY:HA2	2.46	0.40
1:h:530:HIS:NE2	1:h:562:GLU:OE2	2.54	0.40
1:g:73:MET:HE1	1:g:125:PHE:HB2	2.01	0.40
1:k:207:ASP:OD1	1:k:207:ASP:N	2.54	0.40
1:i:200:LYS:O	1:i:202:GLU:N	2.54	0.40
1:a:54:ARG:NH2	1:a:57:LYS:HG2	2.36	0.40
1:a:463:ILE:HG22	1:a:467:PHE:CE2	2.55	0.40
1:a:495:LEU:C	1:b:93:THR:HG21	2.46	0.40
1:a:521:ASN:O	1:a:526:GLN:HB2	2.21	0.40
1:b:377:VAL:HG12	1:b:377:VAL:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:556:LEU:HA	1:b:559:ILE:HB	2.02	0.40
1:b:576:TRP:CE3	1:c:550:LEU:HD22	2.56	0.40
1:c:213:ILE:HD11	1:c:323:PHE:HB2	2.02	0.40
1:c:389:GLY:HA2	1:d:364:ARG:NH2	2.36	0.40
1:d:349:GLU:O	1:d:353:VAL:HG22	2.21	0.40
1:d:415:LEU:HD23	1:d:415:LEU:HA	1.95	0.40
1:d:536:GLU:OE2	1:d:537:MET:HG3	2.21	0.40
1:e:38:ARG:HB2	1:e:131:MET:CB	2.50	0.40
1:e:230:LEU:HB3	1:e:235:VAL:HG23	2.02	0.40
1:h:74:PRO:HB2	1:h:78:LYS:HZ1	1.86	0.40
1:h:138:VAL:HG22	1:h:196:VAL:HB	2.03	0.40
1:i:241:GLU:HG2	1:i:283:VAL:HB	2.04	0.40
1:i:326:LEU:HD13	1:i:467:PHE:CZ	2.57	0.40
1:i:527:GLN:NE2	1:i:563:VAL:HG13	2.36	0.40
1:a:31:SER:O	1:a:35:SER:CB	2.67	0.40
1:b:124:TRP:HZ2	1:b:324:ALA:HB1	1.84	0.40
1:b:145:LYS:O	1:b:188:ASP:HB2	2.21	0.40
1:b:194:ILE:HG12	1:b:481:ASP:HB3	2.02	0.40
1:c:118:PHE:HB2	1:c:121:MET:SD	2.60	0.40
1:d:88:LYS:HG2	1:d:89:TYR:H	1.86	0.40
1:d:205:LEU:HB2	1:d:220:CYS:HB3	2.02	0.40
1:d:291:LEU:HD23	1:d:291:LEU:H	1.86	0.40
1:e:73:MET:HG2	1:e:122:PHE:HE1	1.86	0.40
1:e:528:MET:SD	1:e:529:LEU:HG	2.61	0.40
1:e:588:LYS:HB2	1:e:588:LYS:HE3	1.81	0.40
1:f:128:THR:HB	1:f:134:GLY:HA3	2.03	0.40
1:f:135:VAL:HG12	1:f:201:PRO:HB3	2.03	0.40
1:f:227:VAL:HG12	1:f:231:ARG:NH1	2.36	0.40
1:h:226:THR:HA	1:h:283:VAL:HG12	2.02	0.40
1:h:306:LEU:HD12	1:h:306:LEU:HA	1.89	0.40
1:g:331:ILE:H	1:g:331:ILE:HD12	1.86	0.40
1:g:482:HIS:HD2	1:g:486:TYR:CD1	2.40	0.40
1:g:557:TYR:HE1	1:g:575:PHE:O	2.04	0.40
1:k:227:VAL:CG2	1:k:281:ARG:HB2	2.52	0.40
1:j:22:LEU:HD23	1:j:22:LEU:HA	1.87	0.40
1:j:521:ASN:O	1:j:526:GLN:HB2	2.21	0.40
1:i:80:PHE:CD2	1:i:121:MET:HE1	2.57	0.40
1:i:135:VAL:CG2	1:i:323:PHE:HB3	2.51	0.40
1:a:323:PHE:O	1:a:474:ARG:NE	2.55	0.40
1:a:541:VAL:O	1:a:546:GLY:N	2.52	0.40
1:c:74:PRO:HB2	1:c:78:LYS:HZ3	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:127:ASP:O	1:c:133:THR:N	2.52	0.40
1:c:345:ARG:NH2	1:c:349:GLU:HG3	2.37	0.40
1:d:213:ILE:CD1	1:d:323:PHE:HB2	2.51	0.40
1:e:22:LEU:HD23	1:e:22:LEU:HA	1.89	0.40
1:f:36:LYS:O	1:f:40:GLU:OE1	2.40	0.40
1:f:37:GLN:HB3	1:f:132:LYS:HD3	2.03	0.40
1:f:224:LYS:HA	1:f:224:LYS:HD2	1.76	0.40
1:g:409:GLY:O	1:g:412:TYR:HB2	2.21	0.40
1:g:509:GLU:C	1:g:510:ARG:HD3	2.46	0.40
1:a:43:LYS:HA	1:a:48:GLU:OE2	2.22	0.40
1:a:219:LEU:O	1:a:288:CYS:HA	2.21	0.40
1:a:565:GLU:HG3	1:a:570:LYS:HA	2.03	0.40
1:b:116:GLU:OE1	1:b:120:VAL:HG13	2.21	0.40
1:b:194:ILE:HG21	1:b:481:ASP:HB3	2.02	0.40
1:b:545:GLY:C	1:b:549:VAL:HG11	2.46	0.40
1:c:105:GLU:HG3	1:c:493:PHE:CD1	2.56	0.40
1:c:292:LEU:O	1:c:300:SER:OG	2.30	0.40
1:d:34:LEU:HD13	1:d:34:LEU:HA	1.96	0.40
1:e:218:PHE:HD1	1:e:288:CYS:HG	1.68	0.40
1:e:291:LEU:HD23	1:e:291:LEU:H	1.86	0.40
1:f:24:ASN:HA	1:f:27:LEU:HD12	2.04	0.40
1:f:135:VAL:HG13	1:f:199:VAL:CG2	2.51	0.40
1:g:523:ASN:ND2	1:g:566:ASN:O	2.46	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	497/705 (70%)	398 (80%)	96 (19%)	3 (1%)	21	59
1	b	489/705 (69%)	383 (78%)	103 (21%)	3 (1%)	21	59

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	c	497/705 (70%)	390 (78%)	104 (21%)	3 (1%)	21	59
1	d	497/705 (70%)	405 (82%)	89 (18%)	3 (1%)	21	59
1	e	497/705 (70%)	402 (81%)	92 (18%)	3 (1%)	21	59
1	f	471/705 (67%)	383 (81%)	86 (18%)	2 (0%)	30	67
1	g	441/705 (63%)	372 (84%)	69 (16%)	0	100	100
1	h	458/705 (65%)	379 (83%)	78 (17%)	1 (0%)	43	78
1	i	461/705 (65%)	365 (79%)	95 (21%)	1 (0%)	43	78
1	j	466/705 (66%)	371 (80%)	94 (20%)	1 (0%)	43	78
1	k	473/705 (67%)	375 (79%)	96 (20%)	2 (0%)	30	67
All	All	5247/7755 (68%)	4223 (80%)	1002 (19%)	22 (0%)	28	67

All (22) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	a	394	LYS
1	b	394	LYS
1	c	394	LYS
1	d	394	LYS
1	e	394	LYS
1	k	399	ILE
1	a	399	ILE
1	b	399	ILE
1	d	399	ILE
1	b	579	PRO
1	c	399	ILE
1	c	579	PRO
1	e	399	ILE
1	h	579	PRO
1	d	579	PRO
1	e	579	PRO
1	f	399	ILE
1	k	579	PRO
1	j	579	PRO
1	i	579	PRO
1	a	579	PRO
1	f	579	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	a	445/614 (72%)	445 (100%)	0	100	100
1	b	439/614 (72%)	439 (100%)	0	100	100
1	c	445/614 (72%)	445 (100%)	0	100	100
1	d	445/614 (72%)	445 (100%)	0	100	100
1	e	445/614 (72%)	445 (100%)	0	100	100
1	f	425/614 (69%)	425 (100%)	0	100	100
1	g	399/614 (65%)	399 (100%)	0	100	100
1	h	412/614 (67%)	412 (100%)	0	100	100
1	i	406/614 (66%)	405 (100%)	1 (0%)	87	87
1	j	420/614 (68%)	420 (100%)	0	100	100
1	k	427/614 (70%)	427 (100%)	0	100	100
All	All	4708/6754 (70%)	4707 (100%)	1 (0%)	100	100

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	i	367	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (87) such sidechains are listed below:

Mol	Chain	Res	Type
1	k	24	ASN
1	k	30	ASN
1	k	108	ASN
1	k	203	ASN
1	k	336	HIS
1	k	348	GLN
1	k	458	GLN
1	k	523	ASN
1	k	527	GLN

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Mol	Chain	Res	Type
1	k	539	GLN
1	k	555	ASN
1	k	558	ASN
1	k	566	ASN
1	k	586	GLN
1	j	18	HIS
1	j	24	ASN
1	j	108	ASN
1	j	458	GLN
1	j	480	HIS
1	j	482	HIS
1	j	539	GLN
1	i	24	ASN
1	i	108	ASN
1	i	333	HIS
1	i	367	GLN
1	i	458	GLN
1	i	477	GLN
1	i	482	HIS
1	i	523	ASN
1	i	586	GLN
1	a	30	ASN
1	a	52	ASN
1	a	203	ASN
1	a	586	GLN
1	b	30	ASN
1	b	108	ASN
1	b	333	HIS
1	b	336	HIS
1	c	52	ASN
1	c	336	HIS
1	c	361	ASN
1	c	366	ASN
1	c	397	ASN
1	c	458	GLN
1	c	558	ASN
1	c	593	GLN
1	d	357	ASN
1	d	361	ASN
1	d	366	ASN
1	d	450	ASN
1	d	451	GLN

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Mol	Chain	Res	Type
1	d	458	GLN
1	d	487	GLN
1	e	14	GLN
1	e	24	ASN
1	e	333	HIS
1	e	357	ASN
1	e	367	GLN
1	e	477	GLN
1	e	487	GLN
1	e	521	ASN
1	e	527	GLN
1	e	539	GLN
1	e	555	ASN
1	e	566	ASN
1	f	24	ASN
1	f	108	ASN
1	f	115	ASN
1	f	126	GLN
1	f	333	HIS
1	f	361	ASN
1	f	458	GLN
1	f	527	GLN
1	f	566	ASN
1	h	21	GLN
1	h	30	ASN
1	h	203	ASN
1	h	333	HIS
1	h	451	GLN
1	h	586	GLN
1	g	14	GLN
1	g	52	ASN
1	g	203	ASN
1	g	333	HIS
1	g	450	ASN
1	g	477	GLN
1	g	487	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

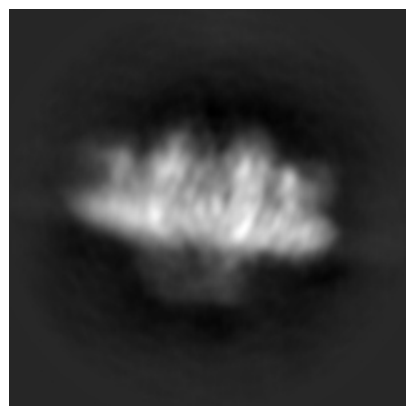
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-25562. These allow visual inspection of the internal detail of the map and identification of artifacts.

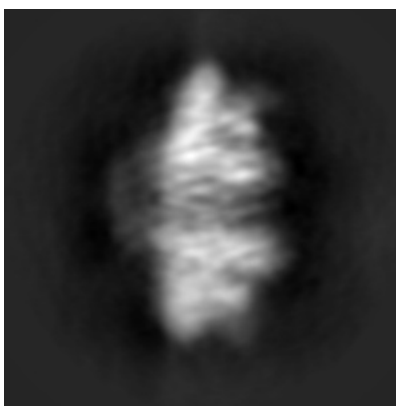
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

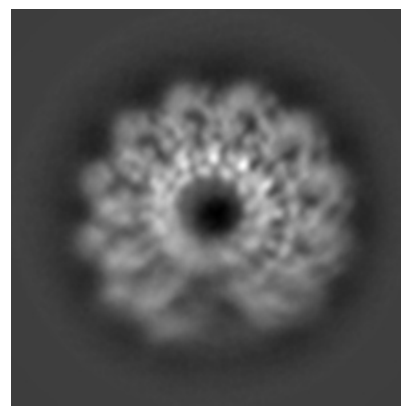
6.1.1 Primary map



X

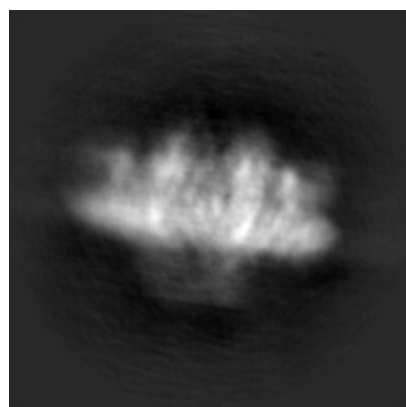


Y

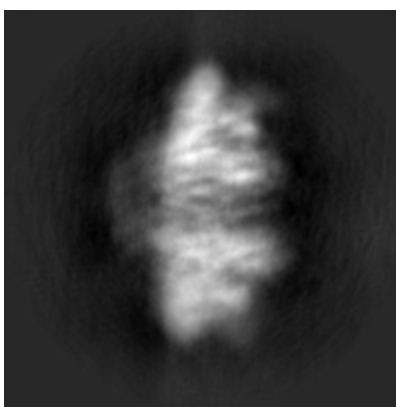


Z

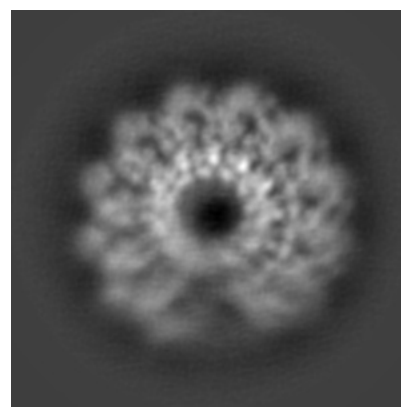
6.1.2 Raw map



X



Y

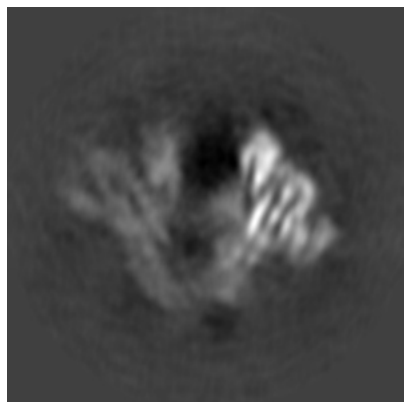


Z

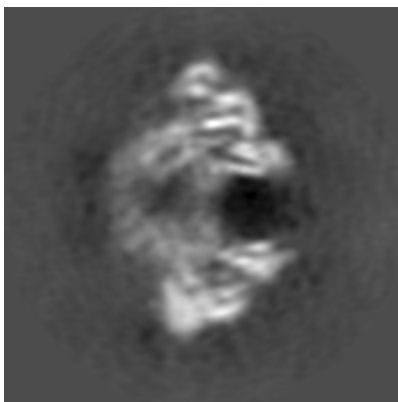
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

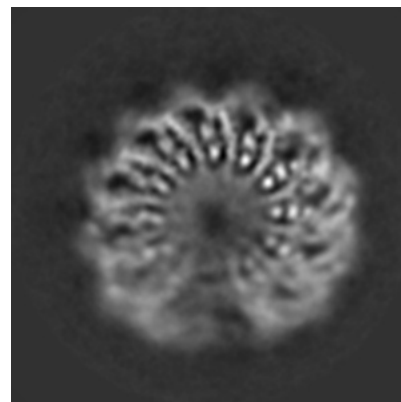
6.2.1 Primary map



X Index: 72

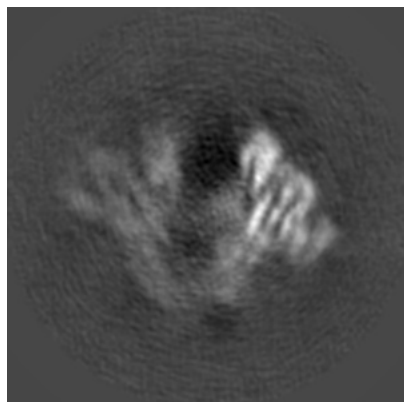


Y Index: 72

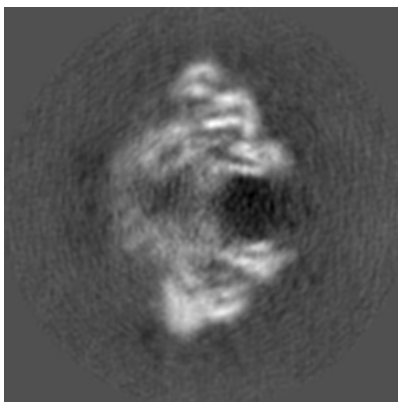


Z Index: 72

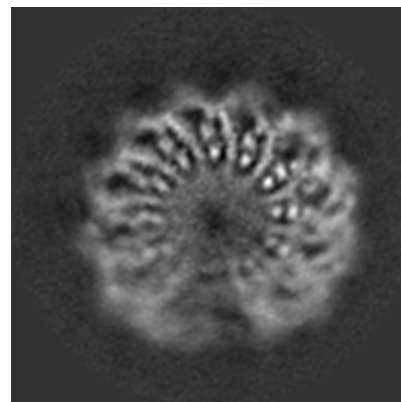
6.2.2 Raw map



X Index: 72



Y Index: 72

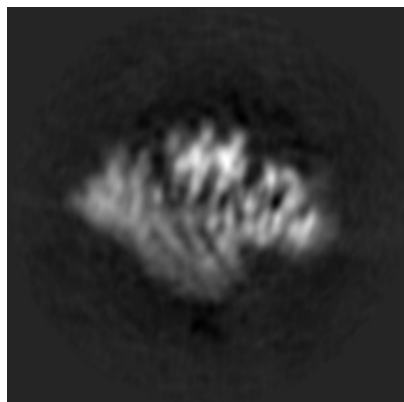


Z Index: 72

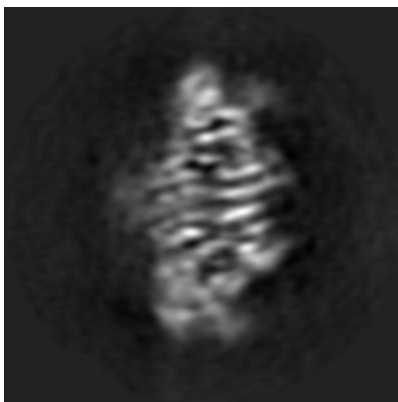
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

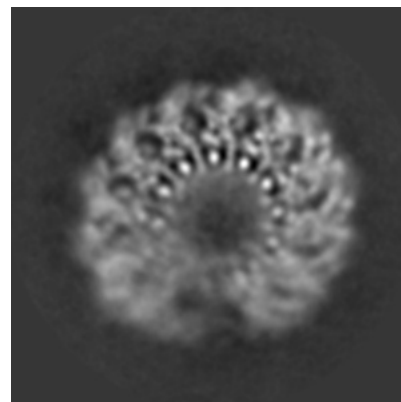
6.3.1 Primary map



X Index: 90

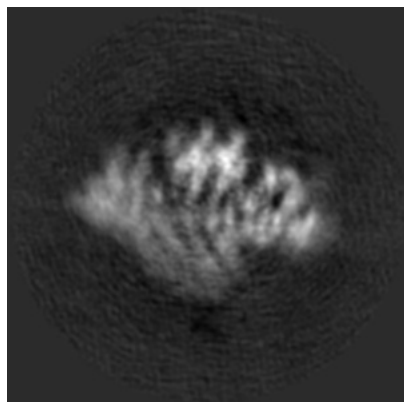


Y Index: 85

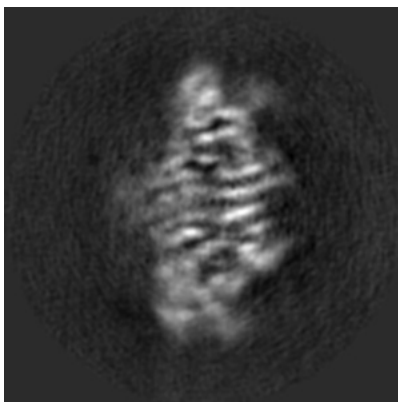


Z Index: 68

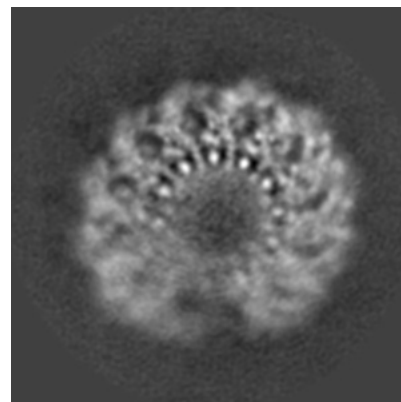
6.3.2 Raw map



X Index: 90



Y Index: 85

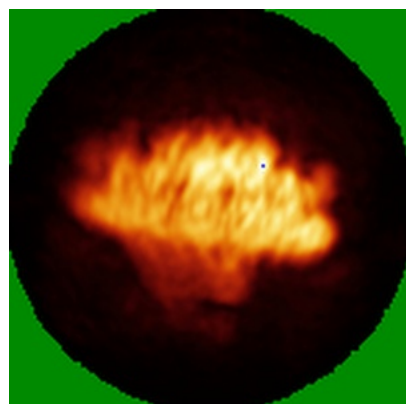


Z Index: 68

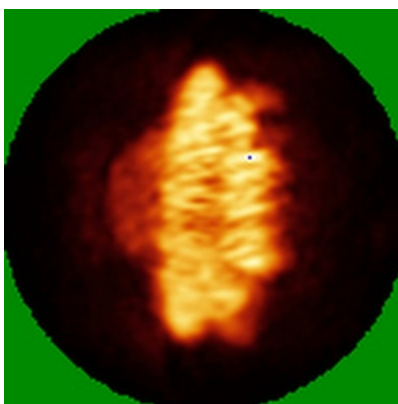
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

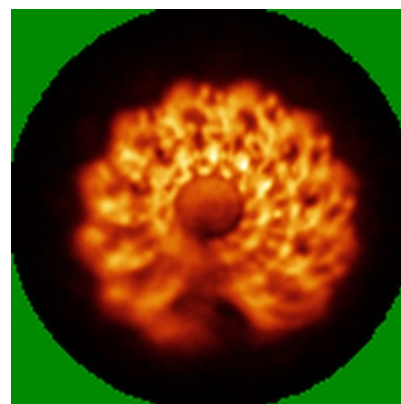
6.4.1 Primary map



X

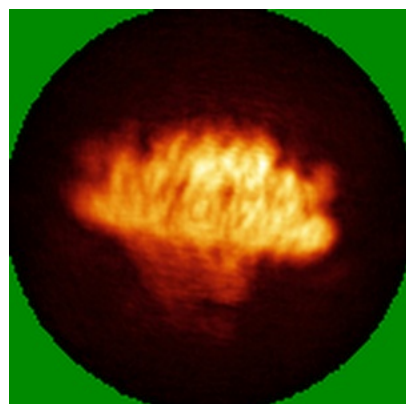


Y

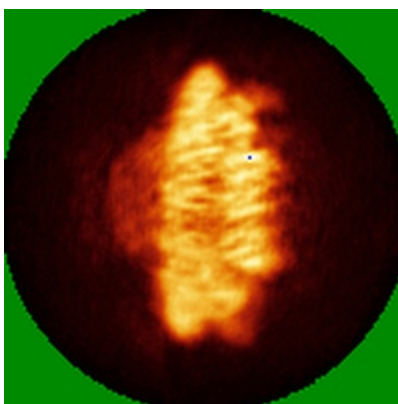


Z

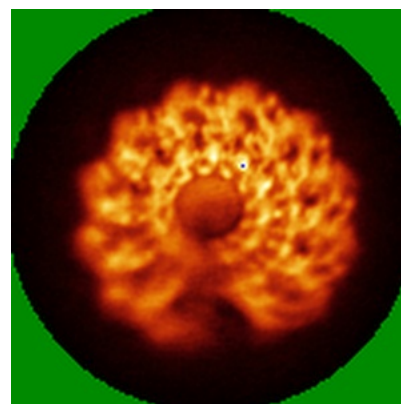
6.4.2 Raw map



X



Y

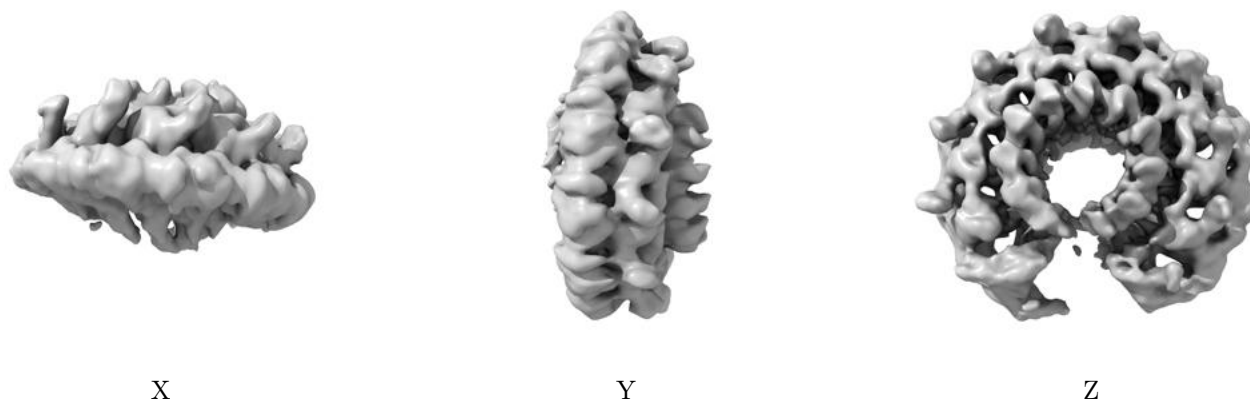


Z

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

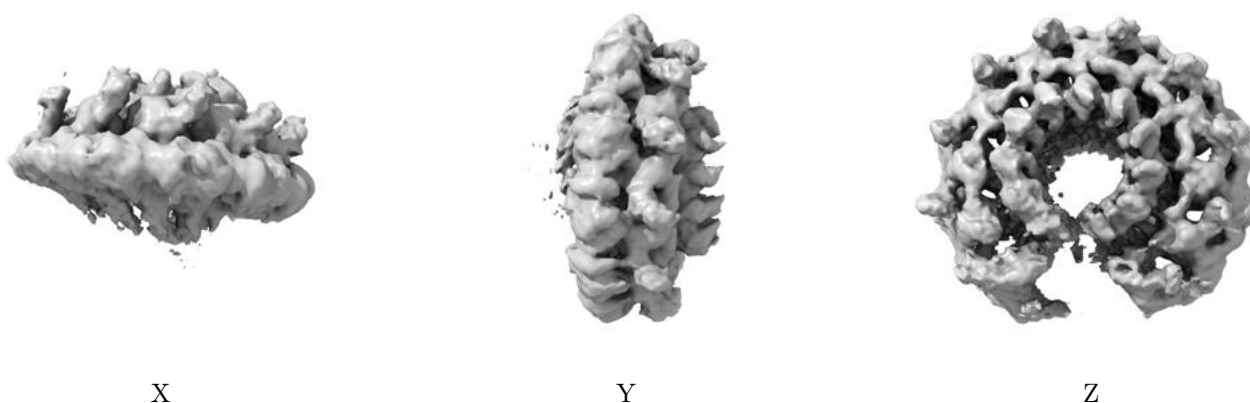
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.02. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



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

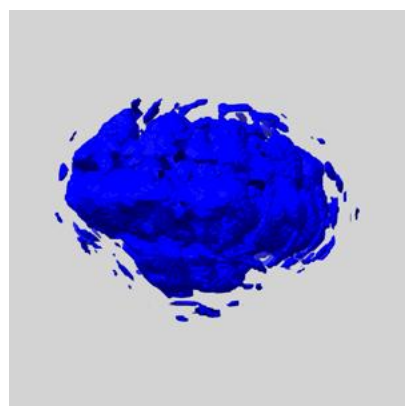
6.6 Mask visualisation [i](#)

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

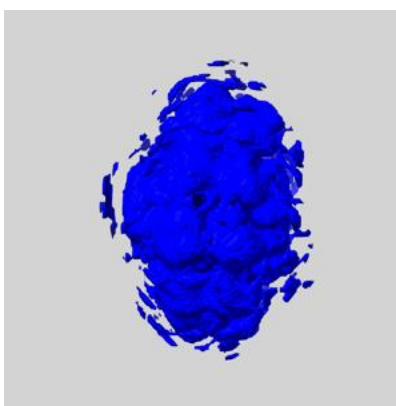
A mask typically either:

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

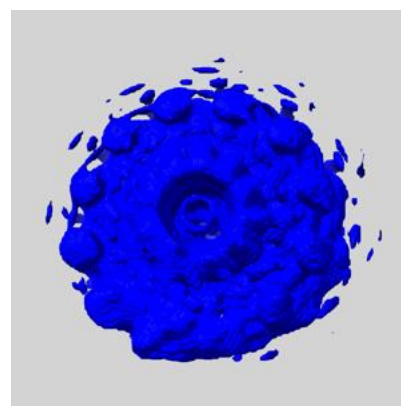
6.6.1 emd_25562_msk_1.map [i](#)



X



Y

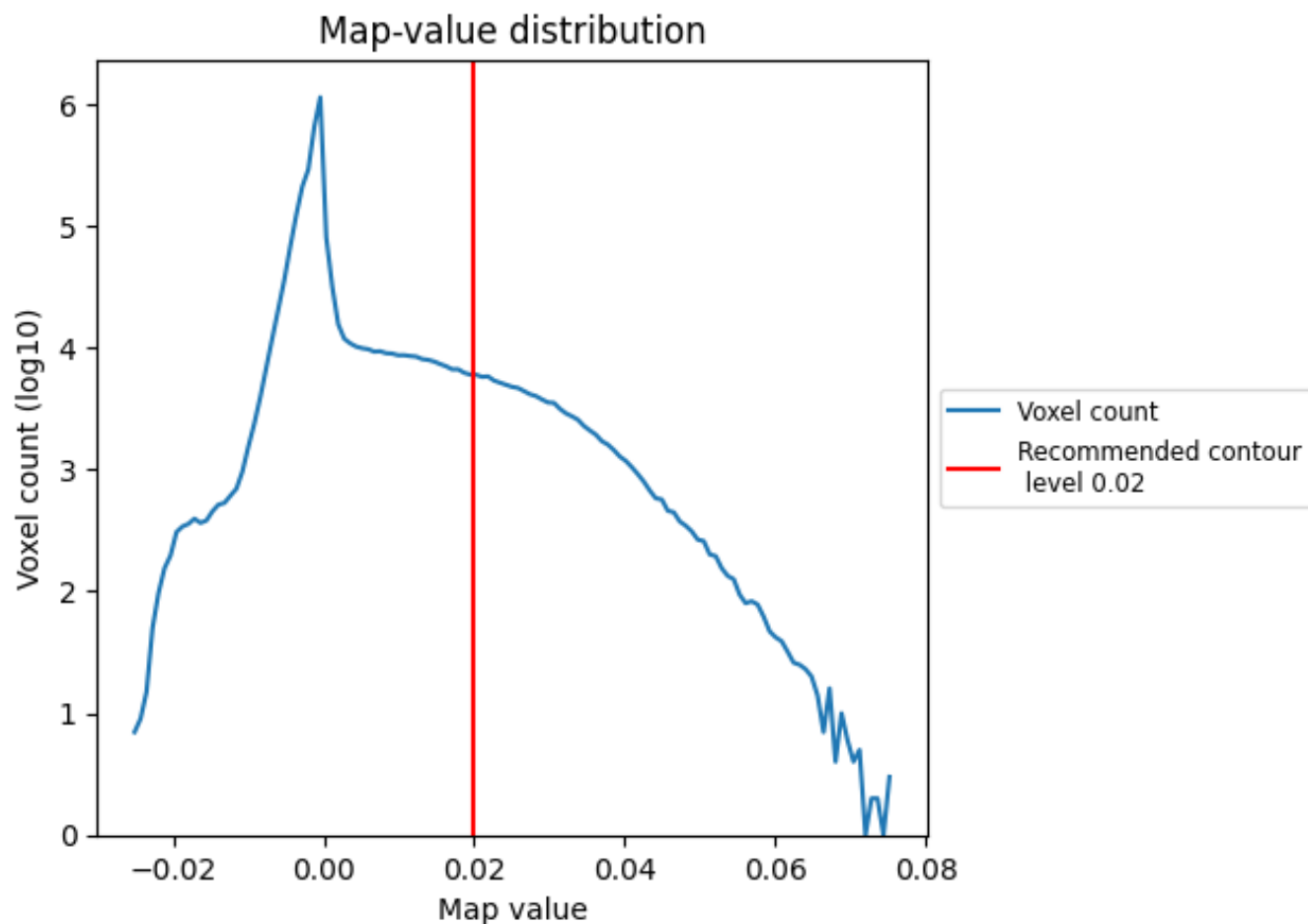


Z

7 Map analysis [i](#)

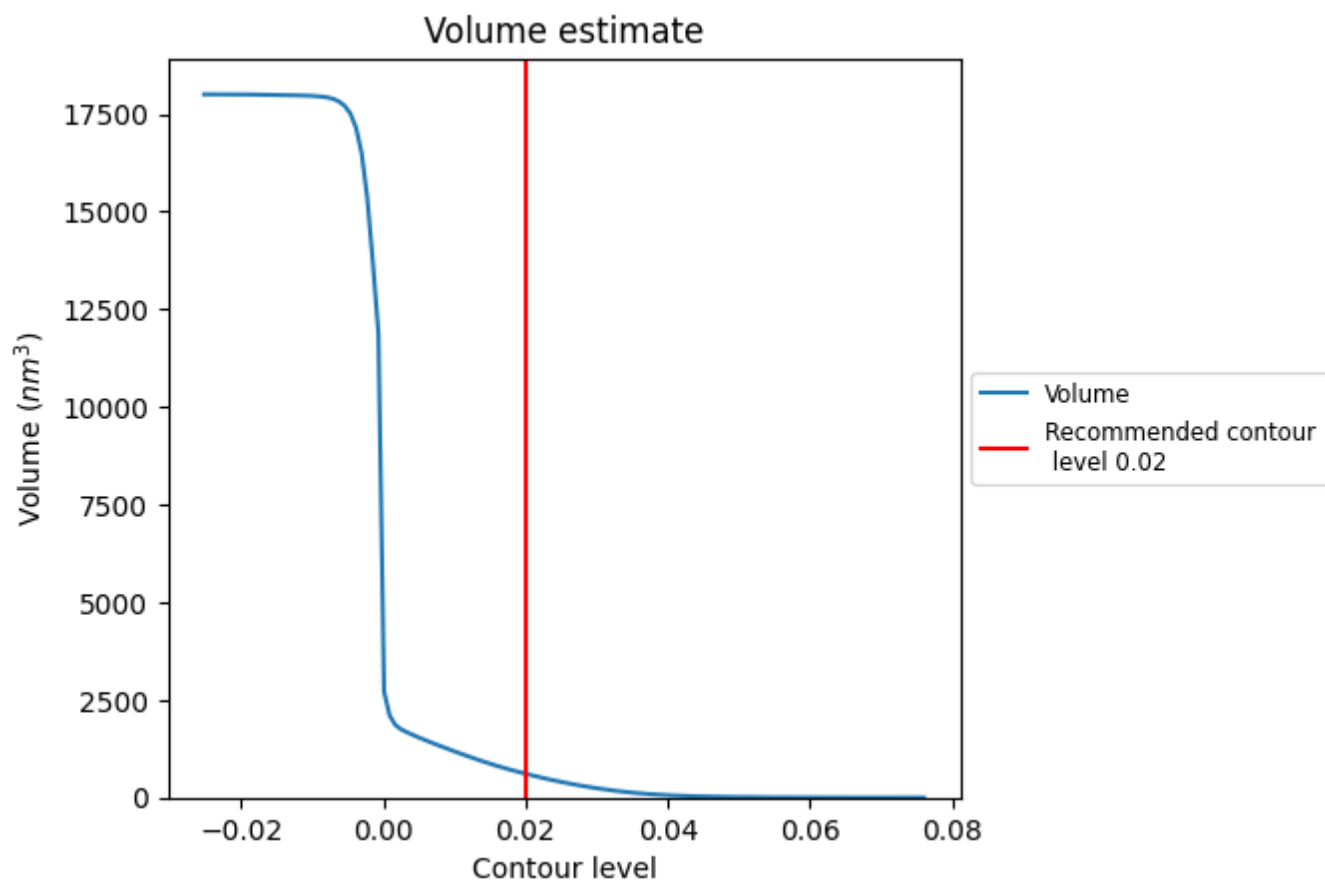
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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.

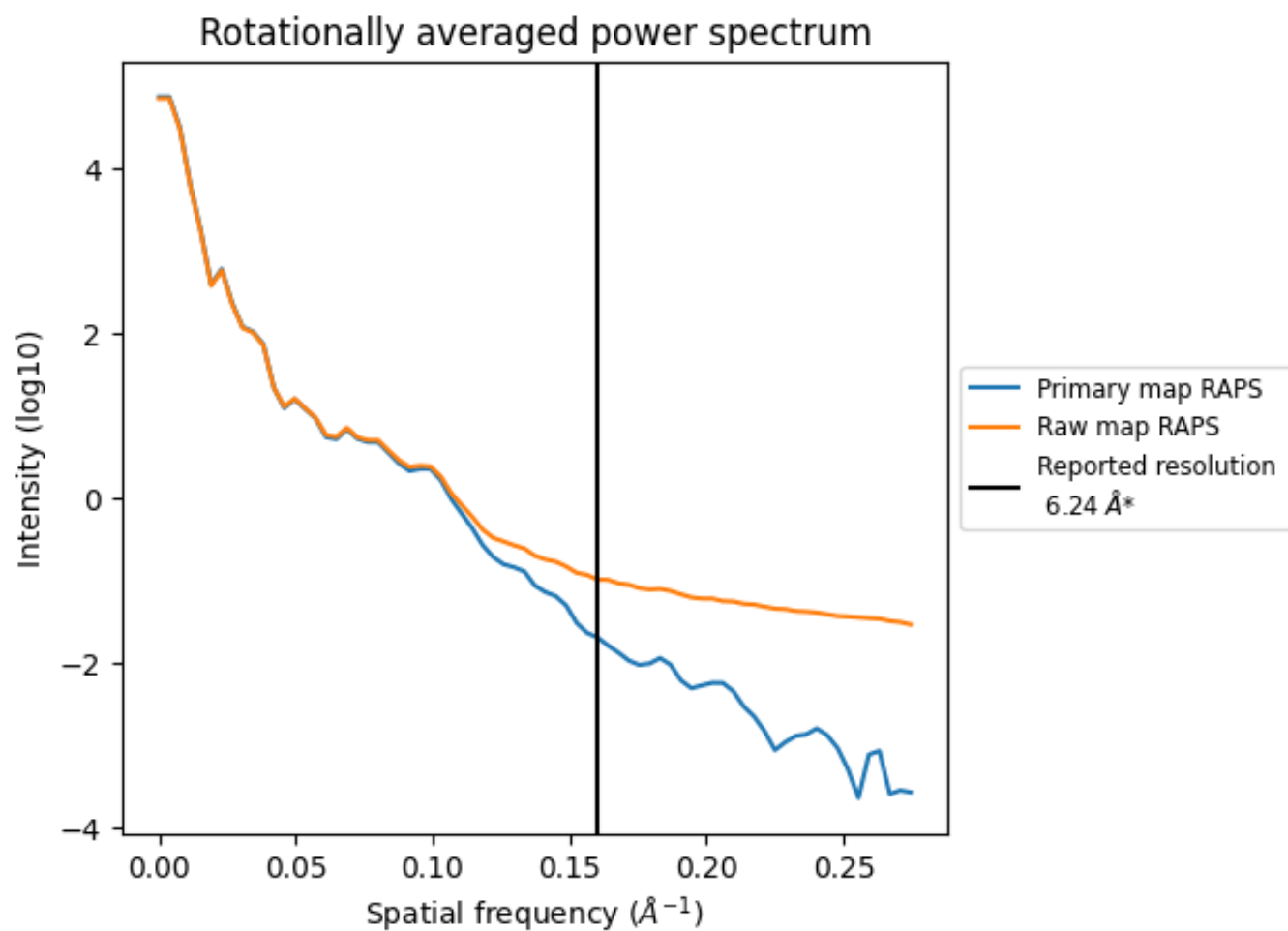
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 610 nm³; this corresponds to an approximate mass of 551 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

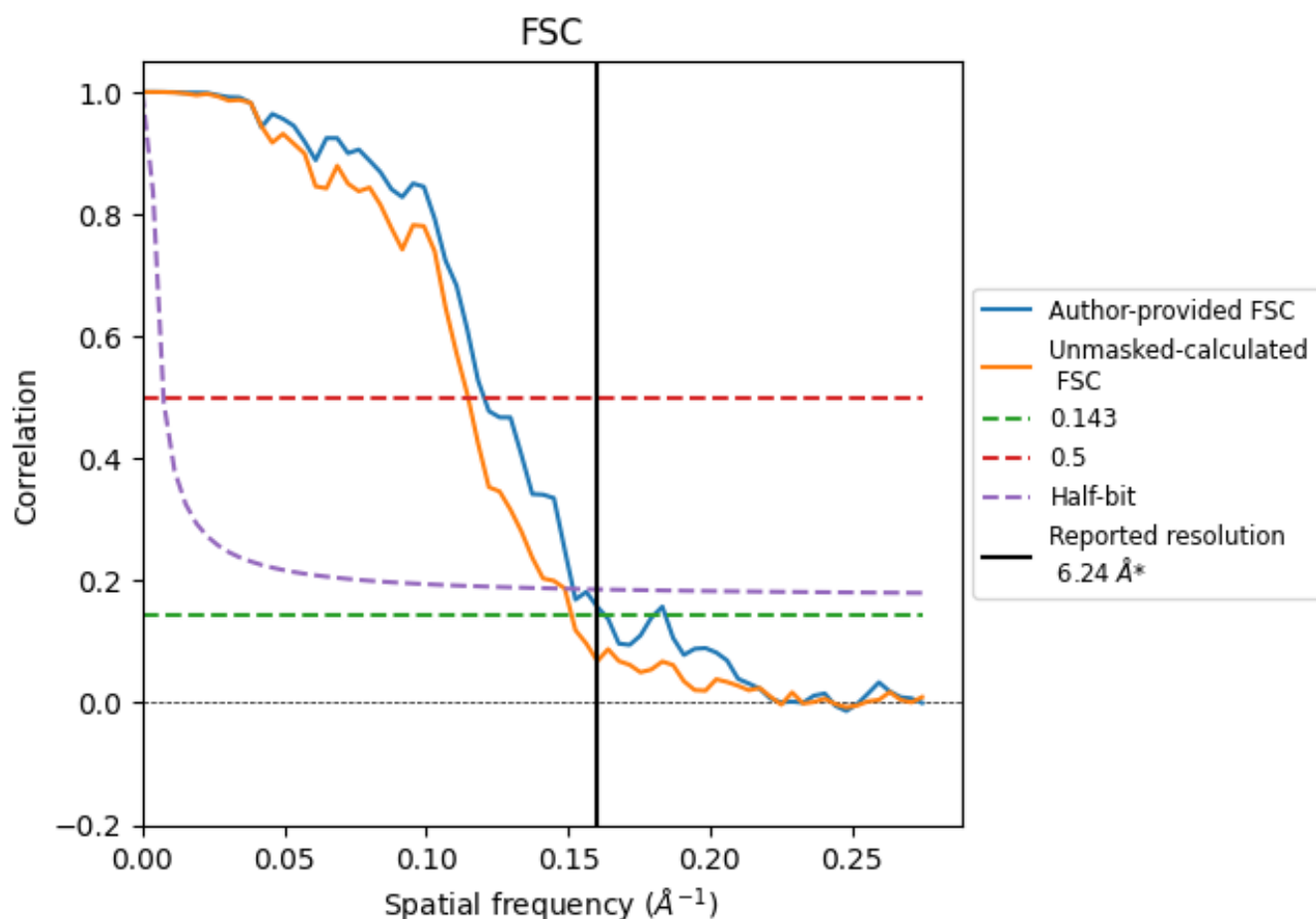


*Reported resolution corresponds to spatial frequency of 0.160 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.160 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

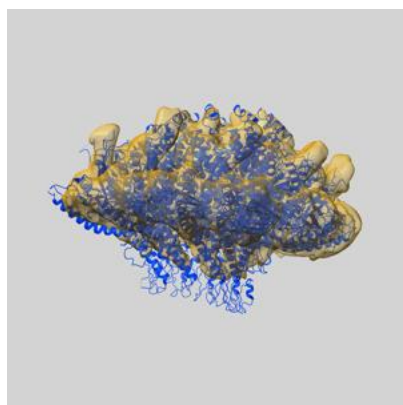
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	6.24	-	-
Author-provided FSC curve	6.14	8.31	6.59
Unmasked-calculated*	6.61	8.72	6.72

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

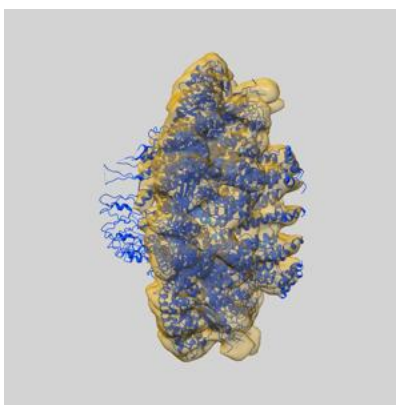
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-25562 and PDB model 7SZ6. Per-residue inclusion information can be found in section 3 on page 5.

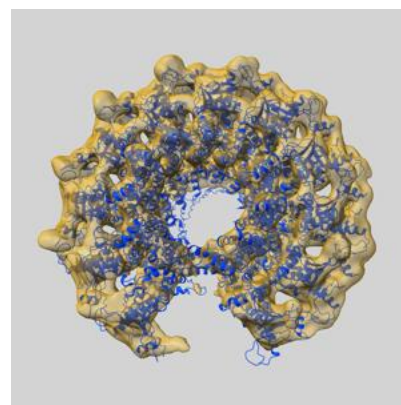
9.1 Map-model overlay [i](#)



X



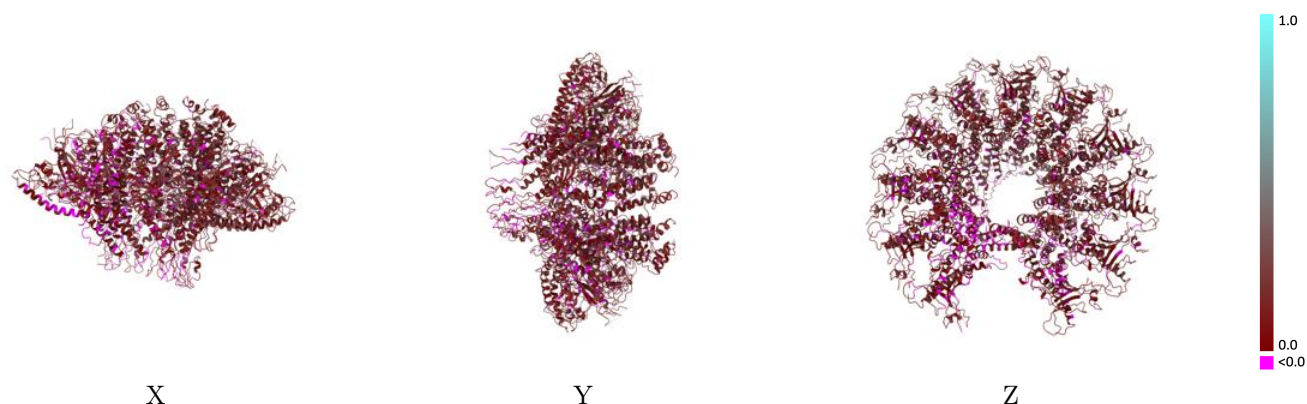
Y



Z

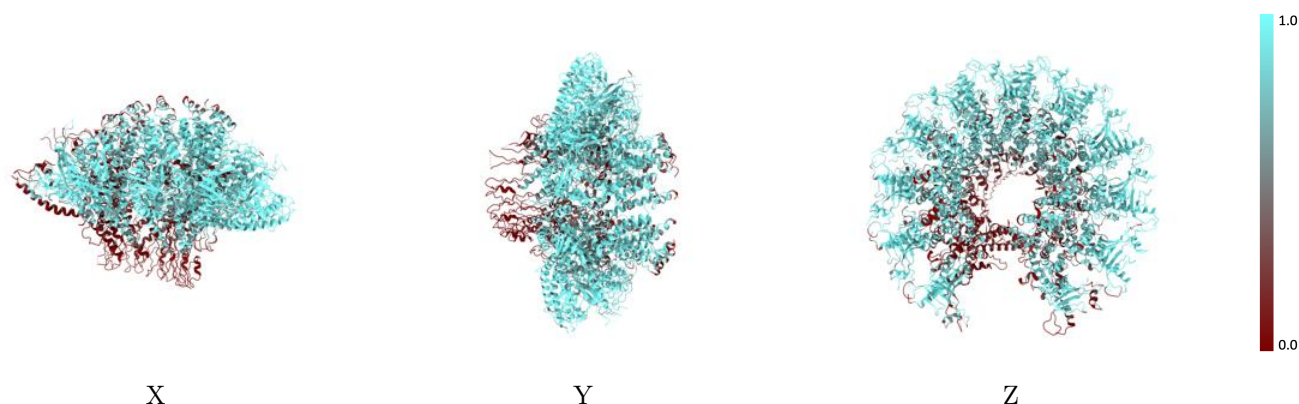
The images above show the 3D surface view of the map at the recommended contour level 0.02 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



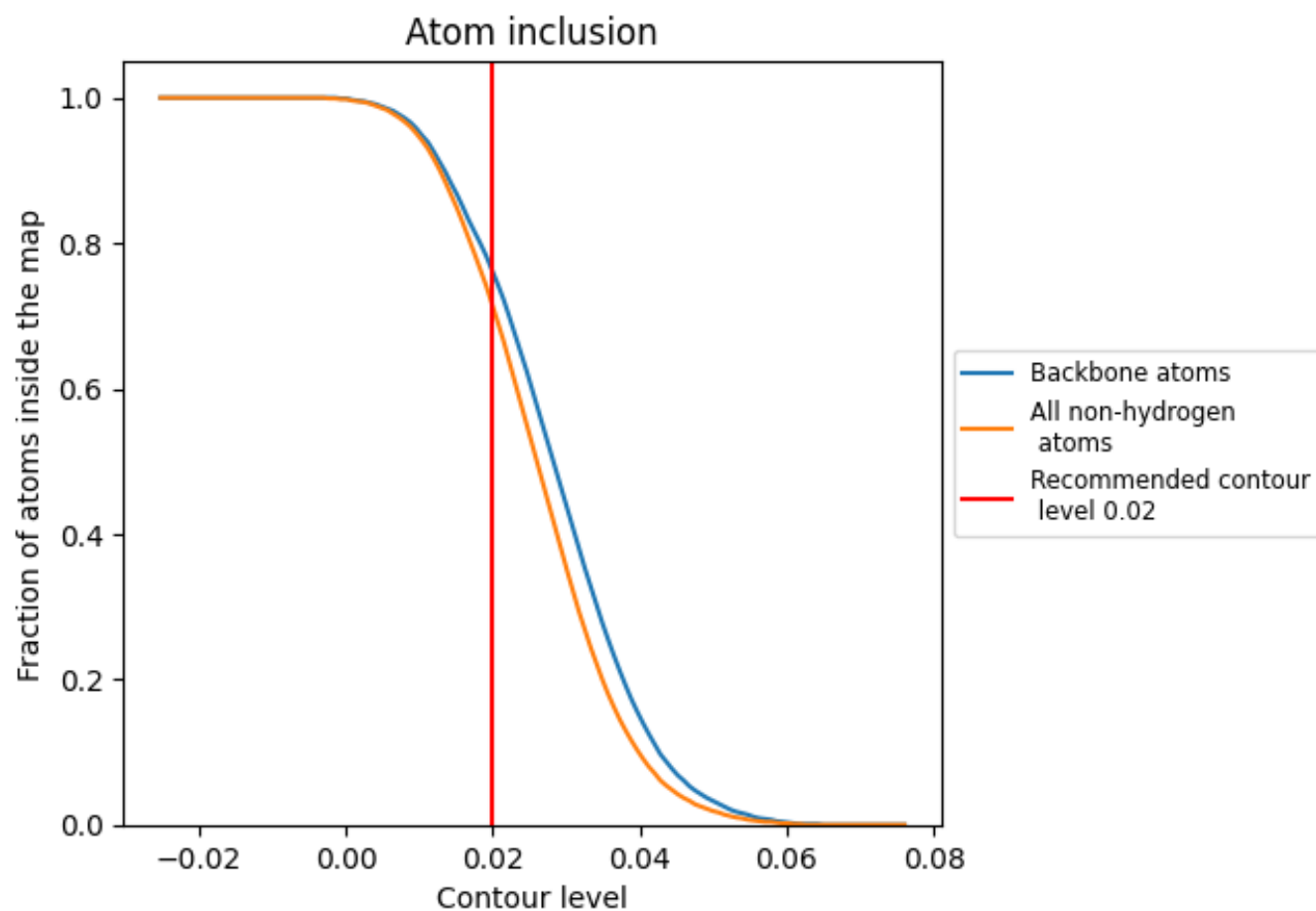
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.02).

9.4 Atom inclusion [i](#)



At the recommended contour level, 76% of all backbone atoms, 71% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.02) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7140	 0.1270
a	 0.7870	 0.1580
b	 0.7780	 0.1560
c	 0.7470	 0.1490
d	 0.7340	 0.1360
e	 0.7070	 0.1120
f	 0.6580	 0.0930
g	 0.5000	 0.0780
h	 0.5600	 0.0880
i	 0.7540	 0.1230
j	 0.8030	 0.1460
k	 0.8020	 0.1510

