Full wwPDB EM Validation Report

Mar 20, 2026 – 08:36 AM UTC

PDB ID	:	8TJ5 / pdb_00008tj5
EMDB ID	:	EMD-41300
Title	:	Inner spoke ring of the yeast NPC
Authors	:	Akey, C.W.; Echeverria, I.; Ouch, C.; Fernandez-Martinez, J.; Rout, M.P.
Deposited on	:	2023-07-20
Resolution	:	6.60 Å(reported)
Based on initial model	:	.

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:

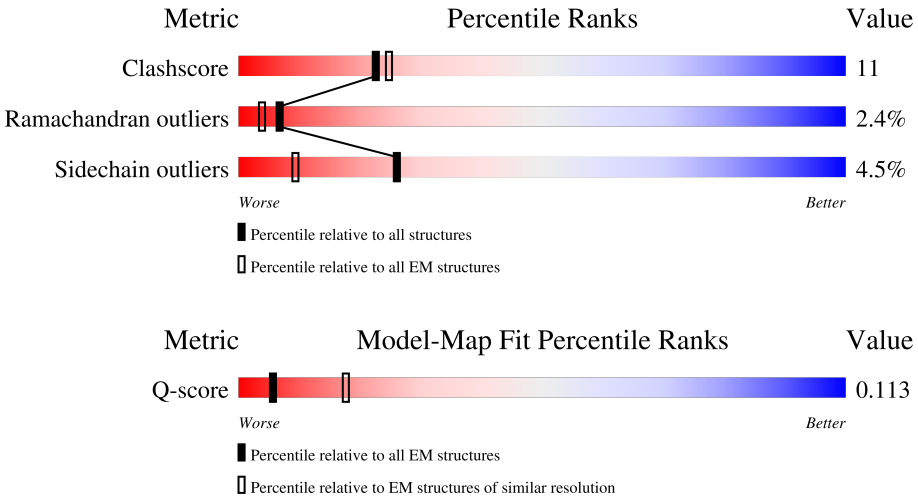
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & 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 6.60 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	531 (6.10 - 7.10)

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

Mol	Chain	Length	Quality of chain
1	3	37	8% 35% 8% 57%
1	4	37	5% 35% 8% 57%
1	7	37	19% 24% 54%
1	8	37	19% 24% 54%

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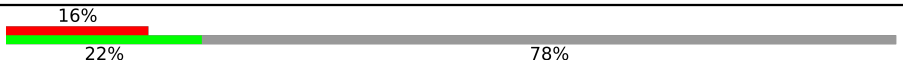
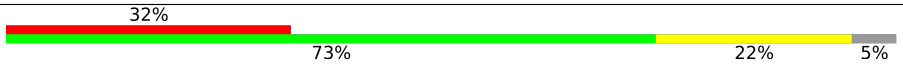
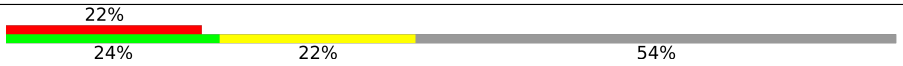
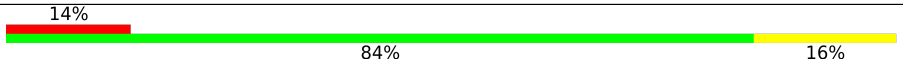
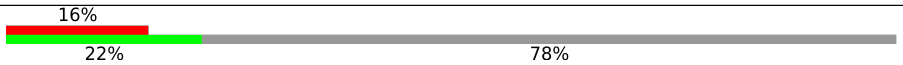
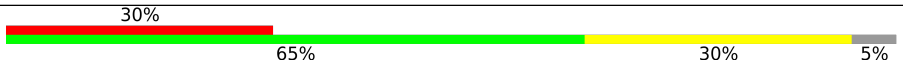
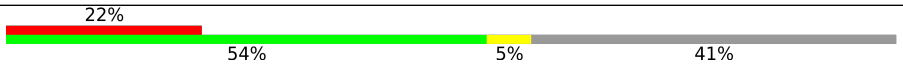
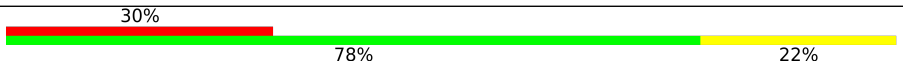
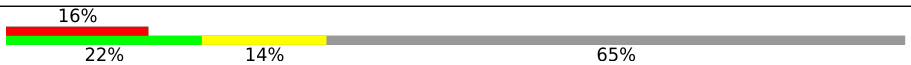
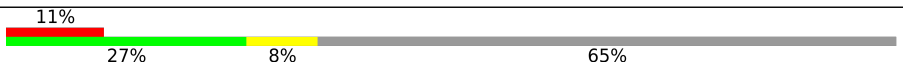
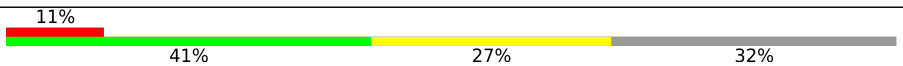
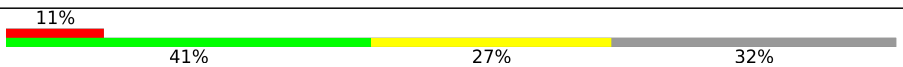
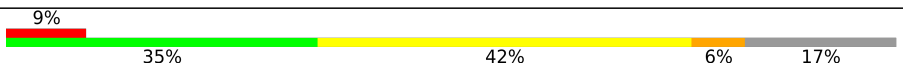
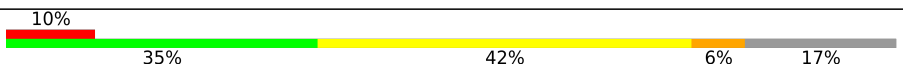
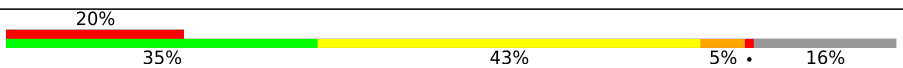
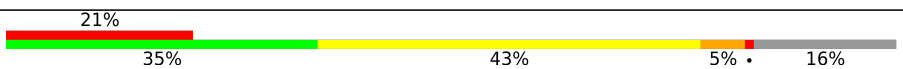
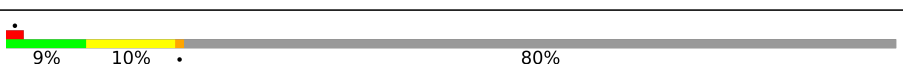
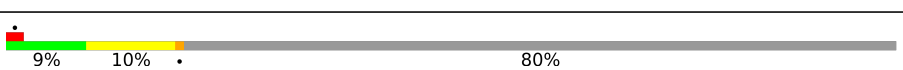
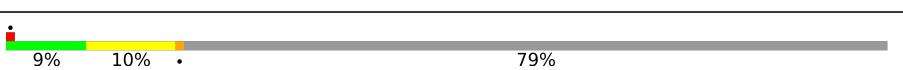
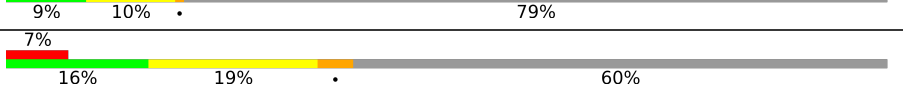
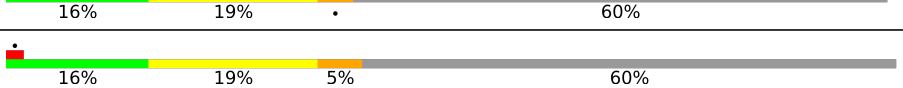
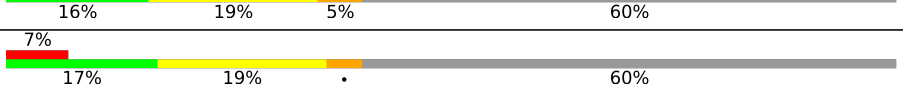
Mol	Chain	Length	Quality of chain
1	a	37	
1	b	37	
1	c	37	
1	d	37	
1	e	37	
1	f	37	
1	g	37	
1	h	37	
1	i	37	
1	j	37	
1	k	37	
1	l	37	
1	m	37	
1	n	37	
2	0	1502	
2	Y	1502	
3	1	1391	
3	Z	1391	
4	A	823	
4	D	823	
4	G	823	
4	J	823	
5	B	541	
5	E	541	
5	H	541	

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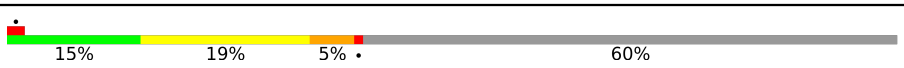
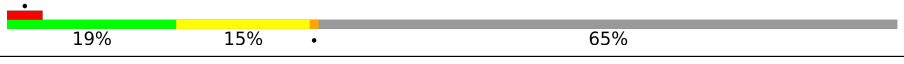
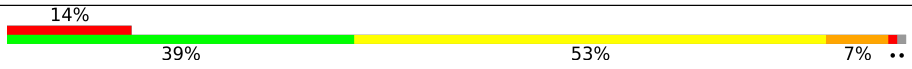
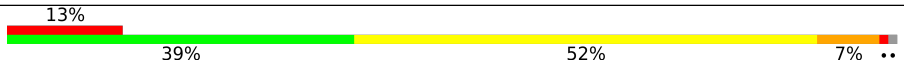
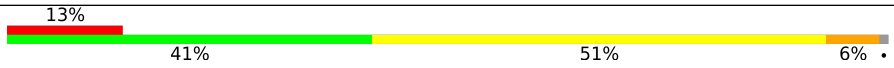
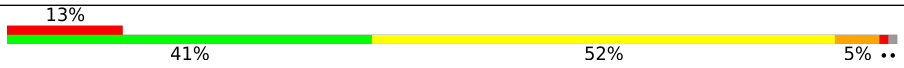
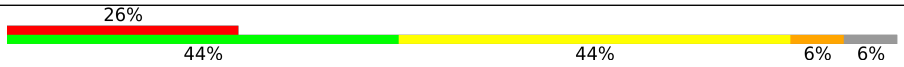
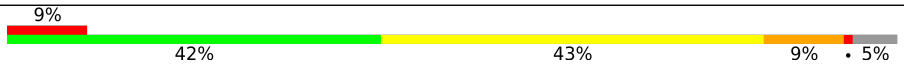
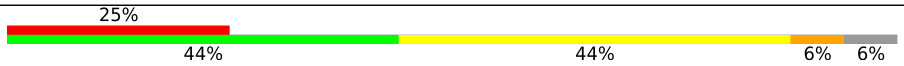
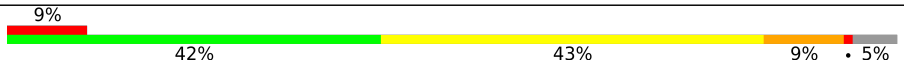
Mol	Chain	Length	Quality of chain
5	K	541	
6	C	472	
6	F	472	
6	I	472	
6	L	472	
7	M	1683	
7	O	1683	
8	N	1655	
8	P	1655	
9	Q	839	
9	R	839	
9	S	839	
9	T	839	
10	U	475	
10	W	475	
11	V	528	
11	X	528	

2 Entry composition (i)

There are 11 unique types of molecules in this entry. The entry contains 138272 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 Spoke connector.

Mol	Chain	Residues	Atoms				AltConf	Trace
1	7	17	Total	C	N	O	0	0
			85	51	17	17		
1	3	16	Total	C	N	O	0	0
			80	48	16	16		
1	8	17	Total	C	N	O	0	0
			85	51	17	17		
1	4	16	Total	C	N	O	0	0
			80	48	16	16		
1	a	8	Total	C	N	O	0	0
			40	24	8	8		
1	b	35	Total	C	N	O	0	0
			175	105	35	35		
1	k	13	Total	C	N	O	0	0
			65	39	13	13		
1	c	17	Total	C	N	O	0	0
			85	51	17	17		
1	m	25	Total	C	N	O	0	0
			125	75	25	25		
1	d	22	Total	C	N	O	0	0
			110	66	22	22		
1	e	37	Total	C	N	O	0	0
			185	111	37	37		
1	f	8	Total	C	N	O	0	0
			40	24	8	8		
1	g	35	Total	C	N	O	0	0
			175	105	35	35		
1	l	13	Total	C	N	O	0	0
			65	39	13	13		
1	h	17	Total	C	N	O	0	0
			85	51	17	17		
1	n	25	Total	C	N	O	0	0
			125	75	25	25		
1	j	37	Total	C	N	O	0	0
			185	111	37	37		

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Mol	Chain	Residues	Atoms				AltConf	Trace
1	i	22	Total 110	C 66	N 22	O 22	0	0

- Molecule 2 is a protein called Nucleoporin NUP170.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	Y	1246	Total 10015	C 6434	N 1644	O 1901	S 36	0	0
2	0	1246	Total 10015	C 6434	N 1644	O 1901	S 36	0	0

- Molecule 3 is a protein called Nucleoporin NUP157.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	Z	1164	Total 9319	C 5964	N 1544	O 1778	S 33	0	0
3	1	1164	Total 9319	C 5964	N 1544	O 1778	S 33	0	0

- Molecule 4 is a protein called Nucleoporin NSP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	A	163	Total 1315	C 814	N 220	O 280	S 1	0	0
4	D	169	Total 1345	C 832	N 226	O 286	S 1	0	0
4	G	163	Total 1315	C 814	N 220	O 280	S 1	0	0
4	J	169	Total 1347	C 833	N 226	O 287	S 1	0	0

- Molecule 5 is a protein called Nucleoporin NUP57.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	B	217	Total 1771	C 1115	N 317	O 336	S 3	0	0
5	E	217	Total 1771	C 1115	N 317	O 336	S 3	0	0
5	H	217	Total 1771	C 1115	N 317	O 336	S 3	0	0
5	K	217	Total 1771	C 1115	N 317	O 336	S 3	0	0

- Molecule 6 is a protein called Nucleoporin NUP49/NSP49.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	C	166	Total	C	N	O	S	0	0
			1347	863	217	265	2		
6	F	173	Total	C	N	O	S	0	0
			1381	883	224	272	2		
6	I	166	Total	C	N	O	S	0	0
			1347	863	217	265	2		
6	L	173	Total	C	N	O	S	0	0
			1381	883	224	272	2		

- Molecule 7 is a protein called Nucleoporin NUP192.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	M	1659	Total	C	N	O	S	0	0
			13334	8597	2155	2542	40		
7	O	1659	Total	C	N	O	S	0	0
			13334	8597	2155	2542	40		

- Molecule 8 is a protein called Nucleoporin NUP188.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	N	1640	Total	C	N	O	S	0	0
			13181	8518	2115	2519	29		
8	P	1641	Total	C	N	O	S	0	0
			13190	8524	2117	2520	29		

- Molecule 9 is a protein called Nucleoporin NIC96.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	Q	791	Total	C	N	O	S	0	0
			5961	3768	1032	1144	17		
9	R	800	Total	C	N	O	S	0	0
			5983	3783	1037	1146	17		
9	S	791	Total	C	N	O	S	0	0
			5961	3768	1032	1144	17		
9	T	801	Total	C	N	O	S	0	0
			5988	3786	1038	1147	17		

- Molecule 10 is a protein called Nucleoporin NUP53.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	U	94	Total	C	N	O	S	0	0
			745	486	120	137	2		
10	W	94	Total	C	N	O	S	0	0
			745	486	120	137	2		

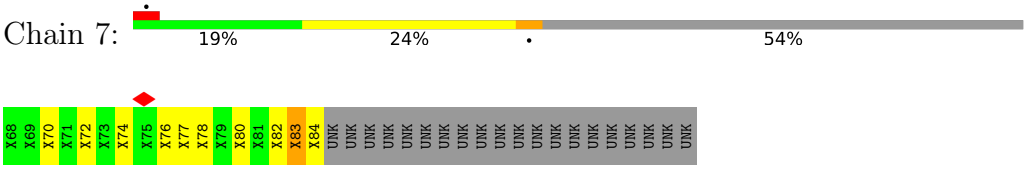
- Molecule 11 is a protein called Nucleoporin 59.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	V	90	Total	C	N	O	S	0	0
			710	459	117	131	3		
11	X	90	Total	C	N	O	S	0	0
			710	459	117	131	3		

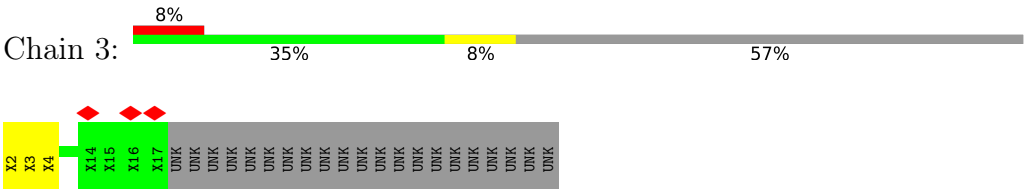
3 Residue-property plots (i)

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

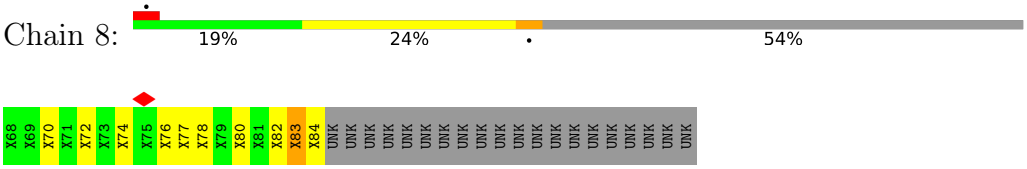
• Molecule 1: Spoke connector



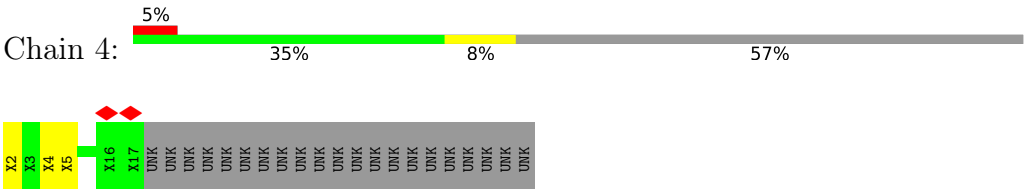
• Molecule 1: Spoke connector



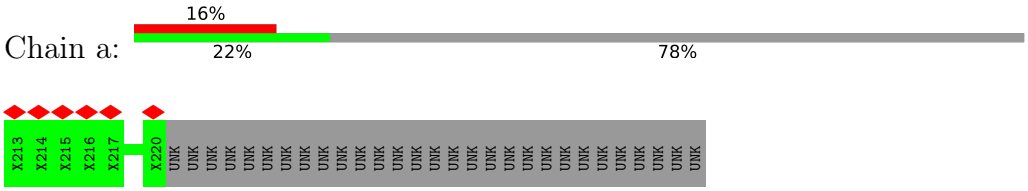
• Molecule 1: Spoke connector



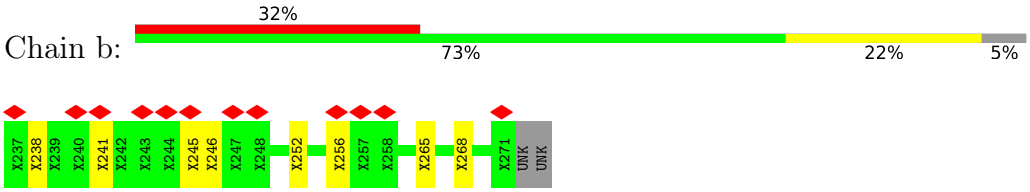
• Molecule 1: Spoke connector



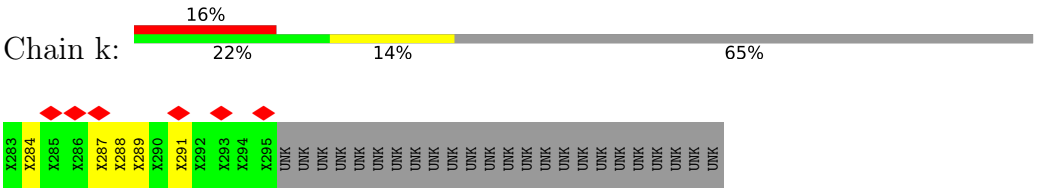
• Molecule 1: Spoke connector



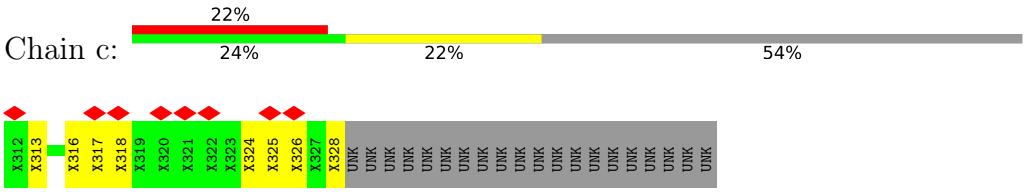
• Molecule 1: Spoke connector



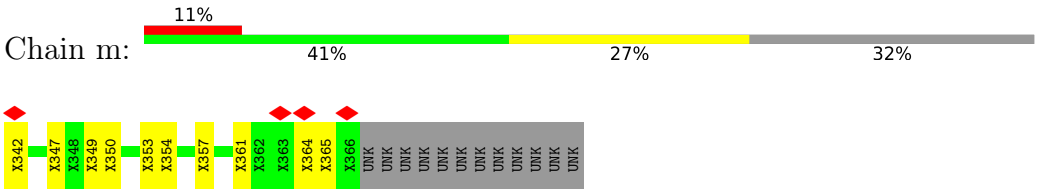
• Molecule 1: Spoke connector



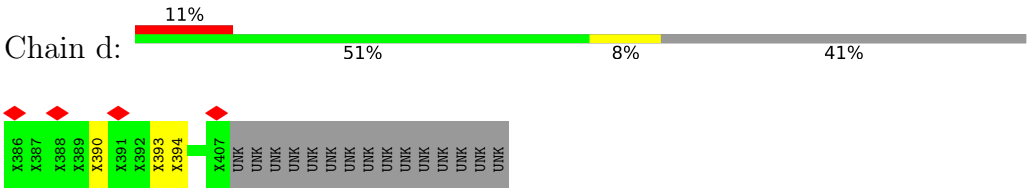
• Molecule 1: Spoke connector



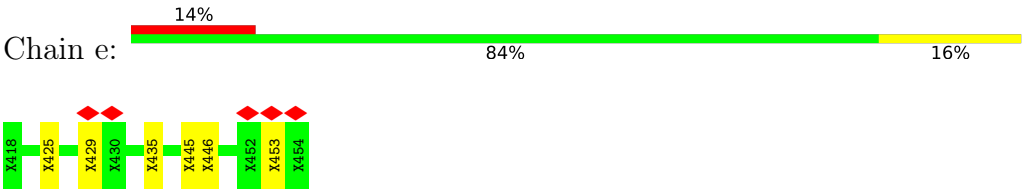
• Molecule 1: Spoke connector



• Molecule 1: Spoke connector



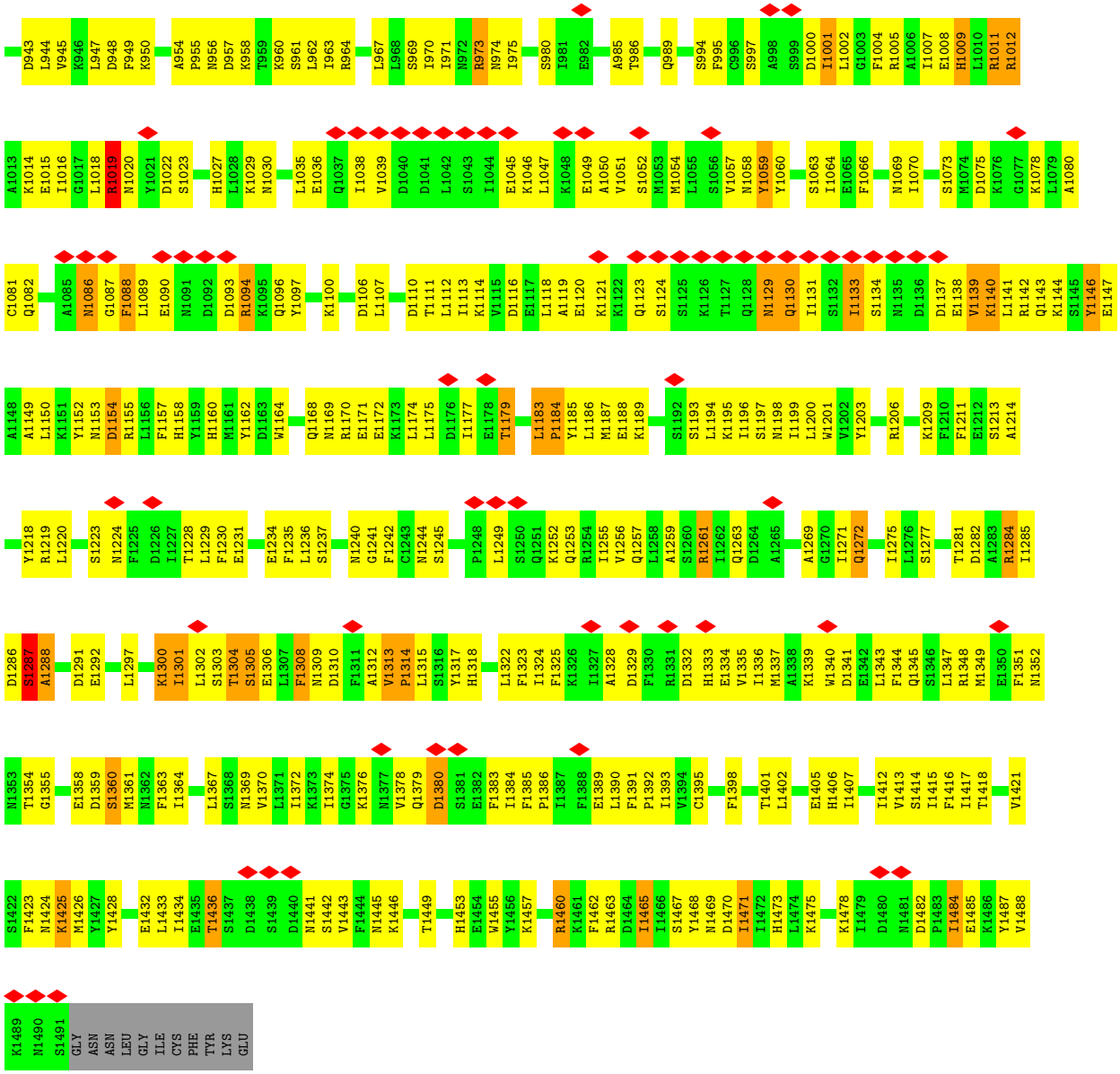
• Molecule 1: Spoke connector



• Molecule 1: Spoke connector

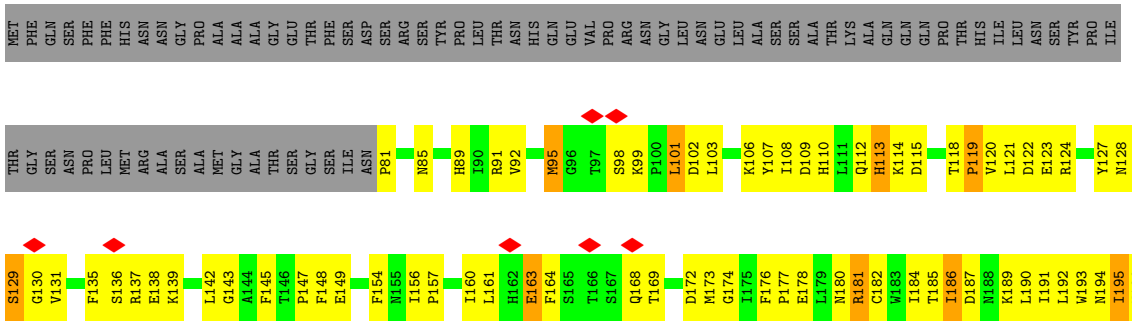
X213 X214 X215 X216 X217 X220 UNK UNK UNK

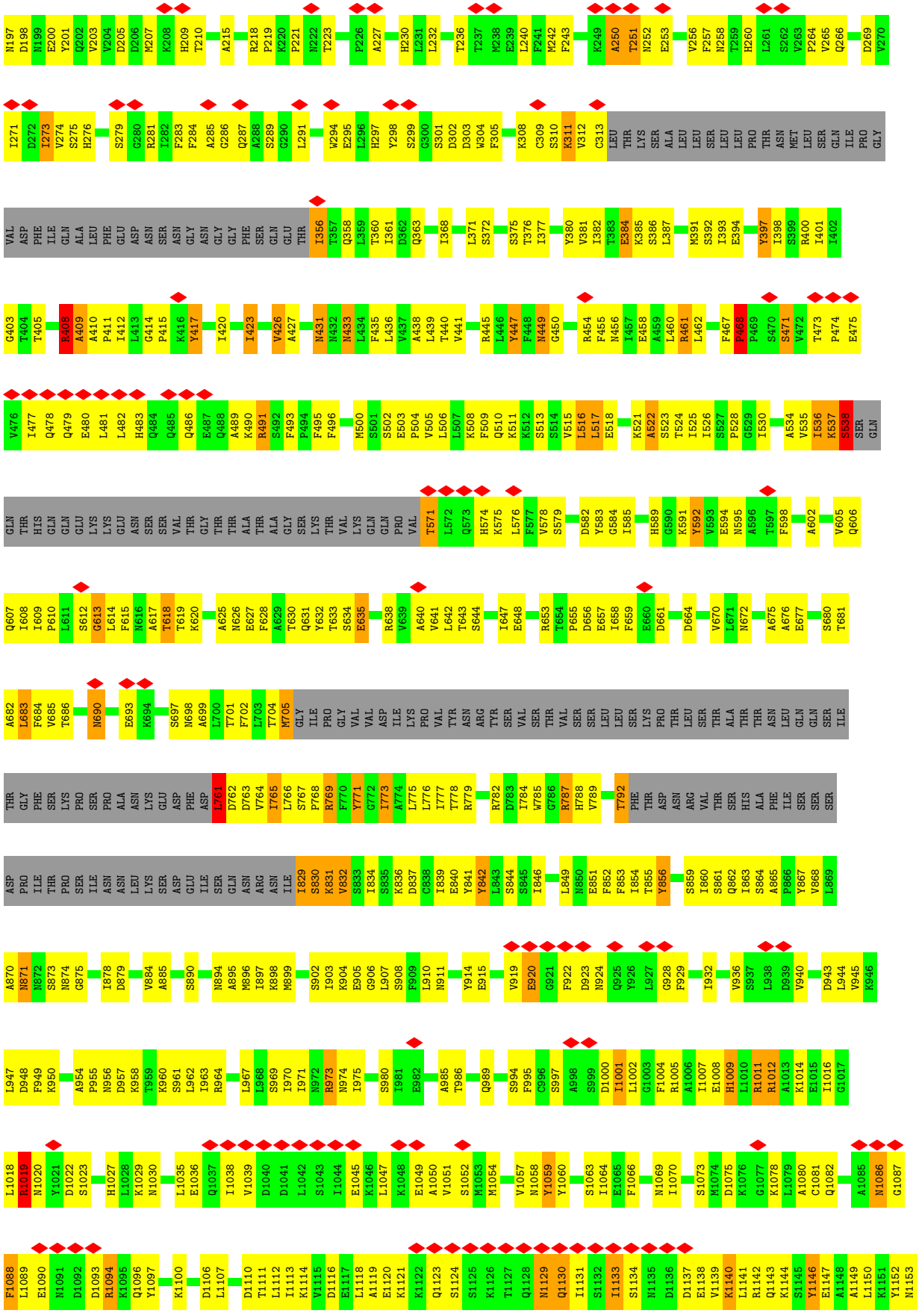
Chain Y:

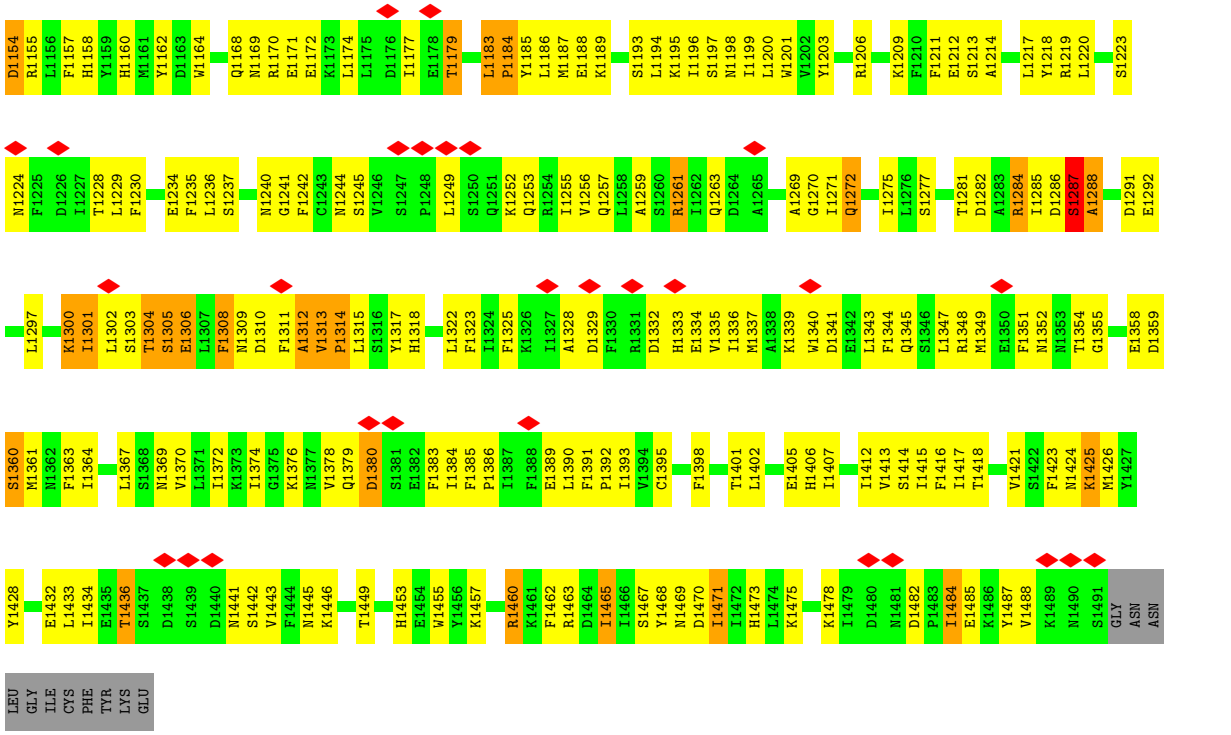


• Molecule 2: Nucleoporin NUP170

Chain 0:

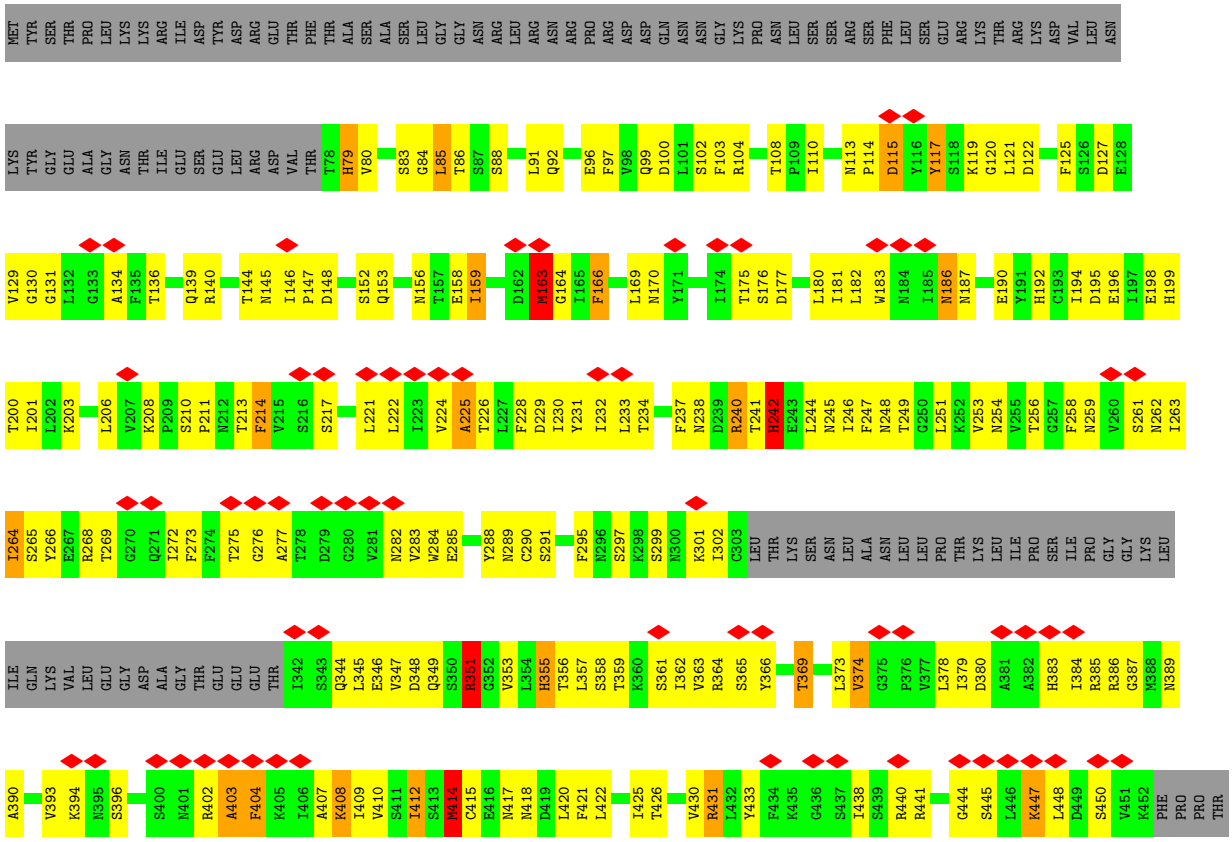


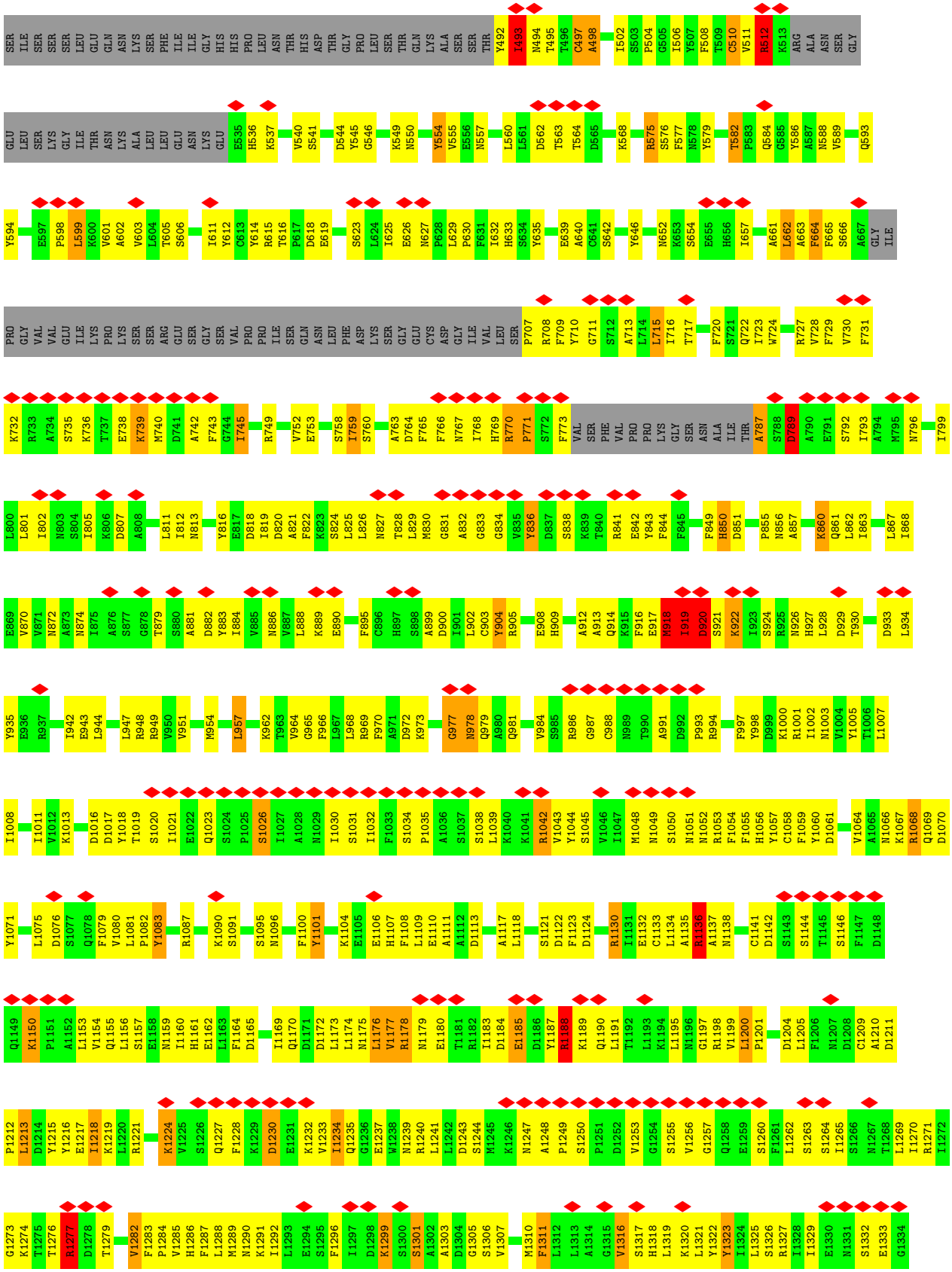




• Molecule 3: Nucleoporin NUP157

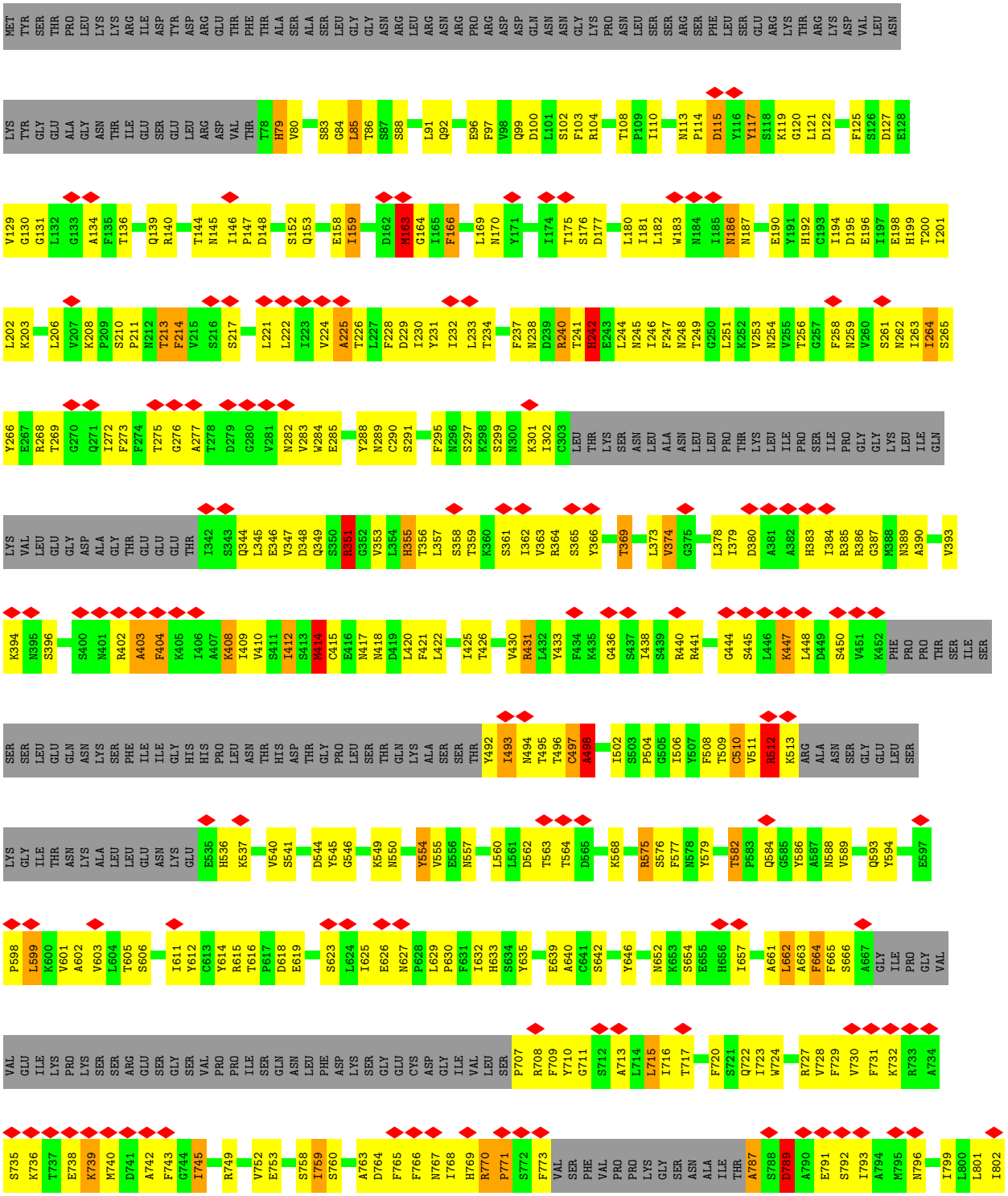
Chain Z:

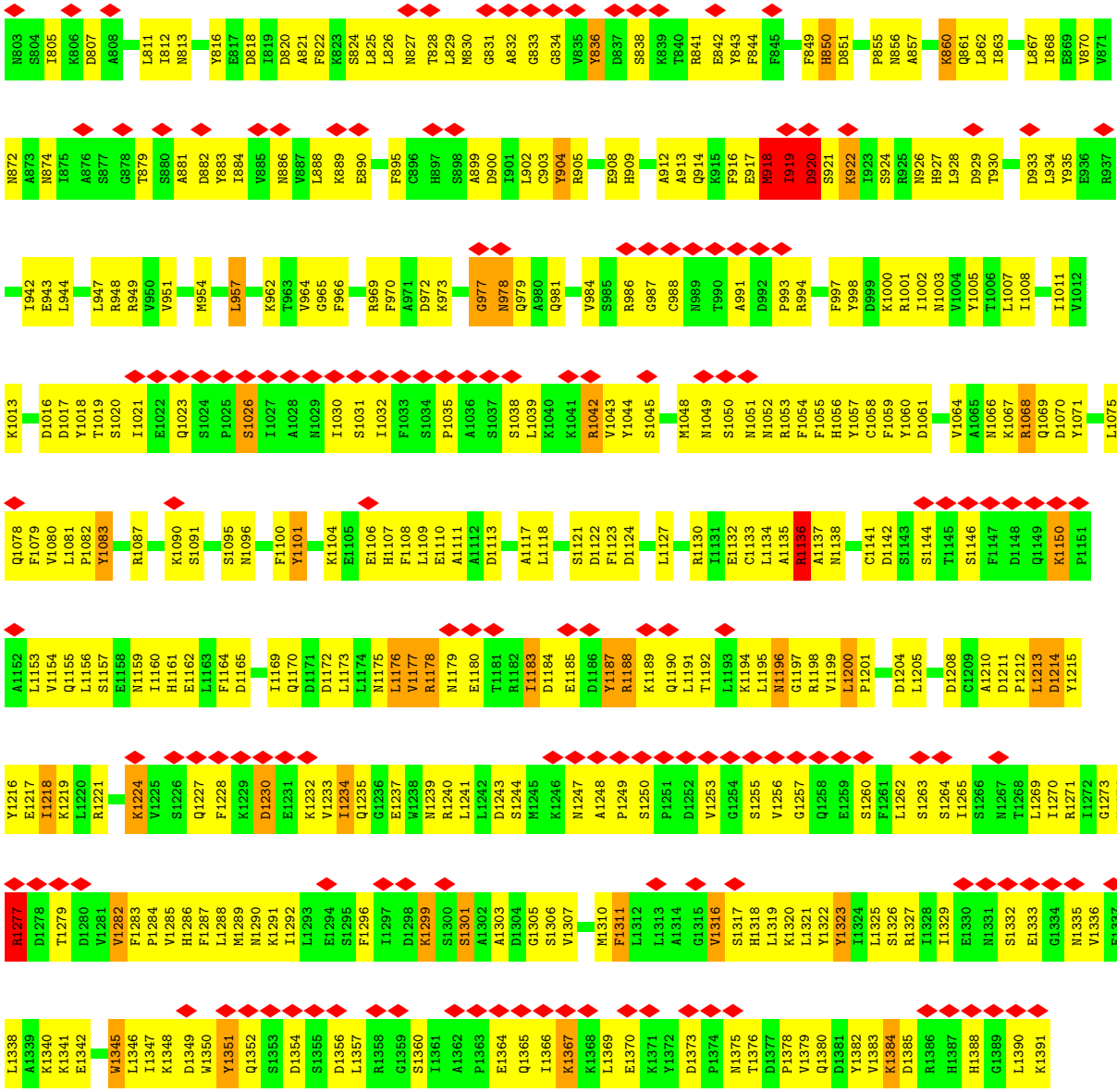




• Molecule 3: Nucleoporin NUP157

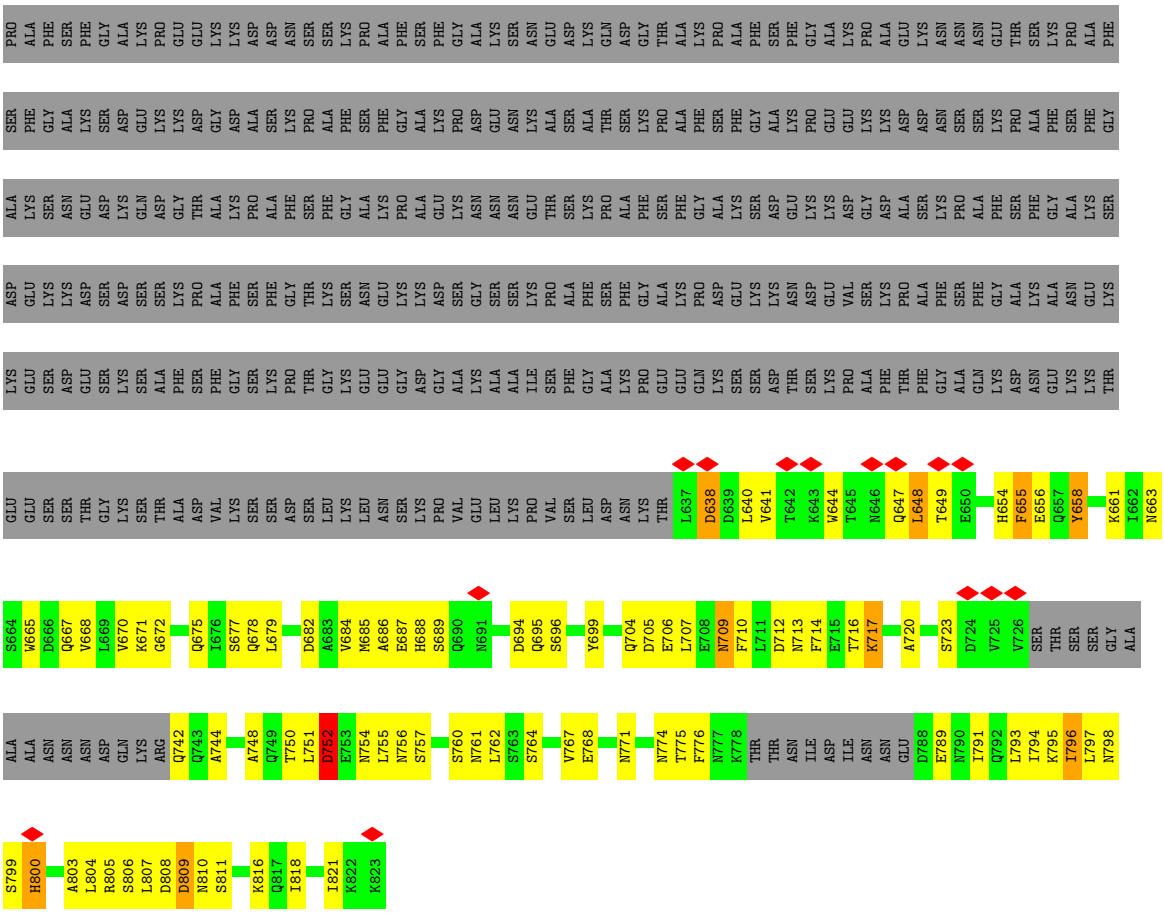
Chain 1:





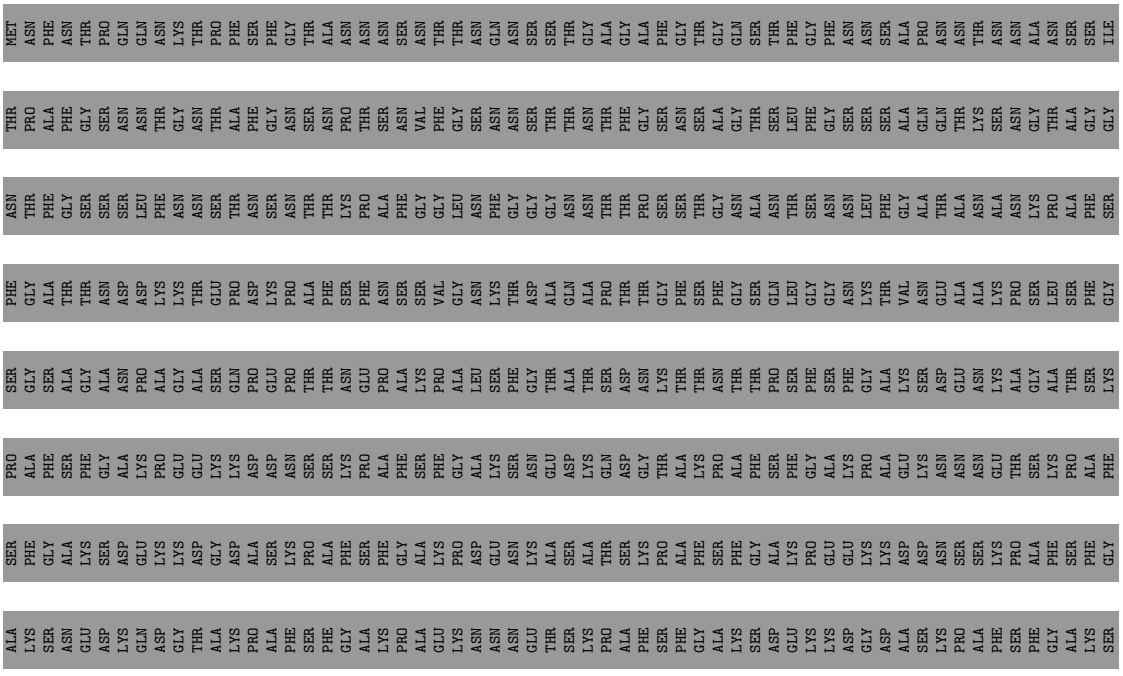
• Molecule 4: Nucleoporin NSP1

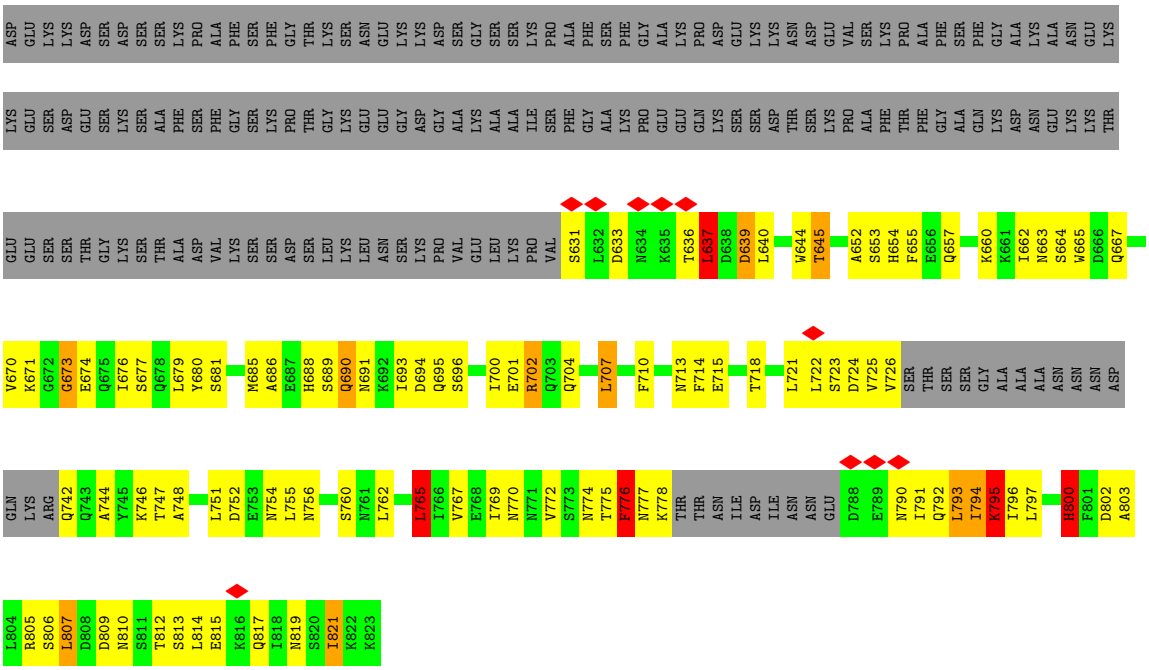
Chain A:



• Molecule 4: Nucleoporin NSP1

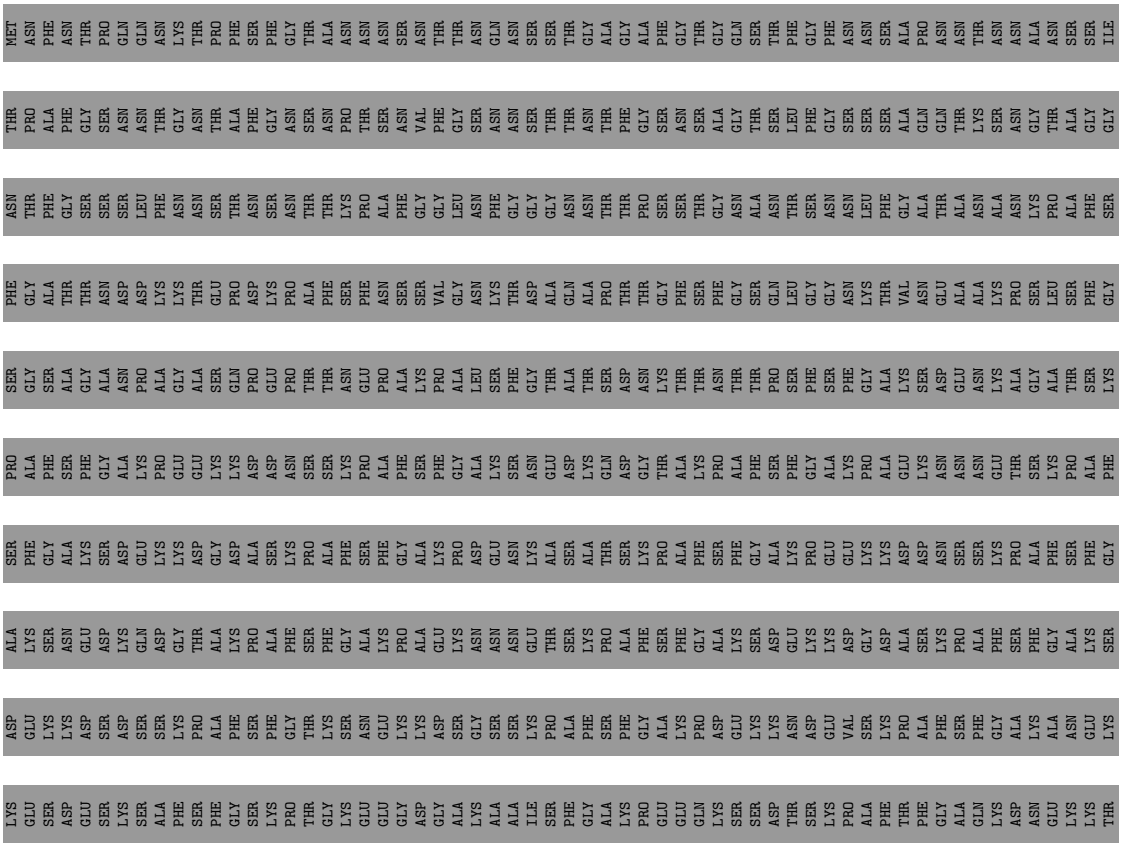
Chain D:

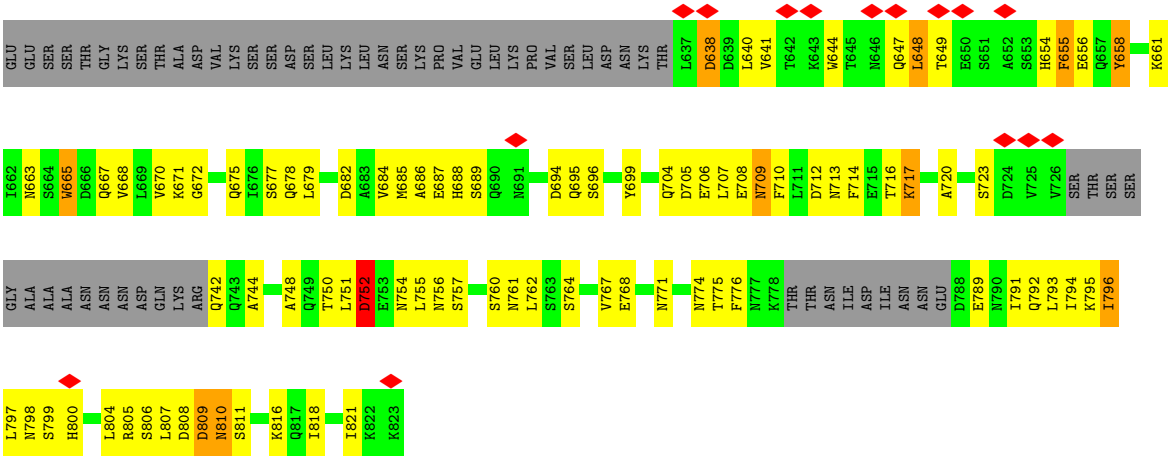




• Molecule 4: Nucleoporin NSP1

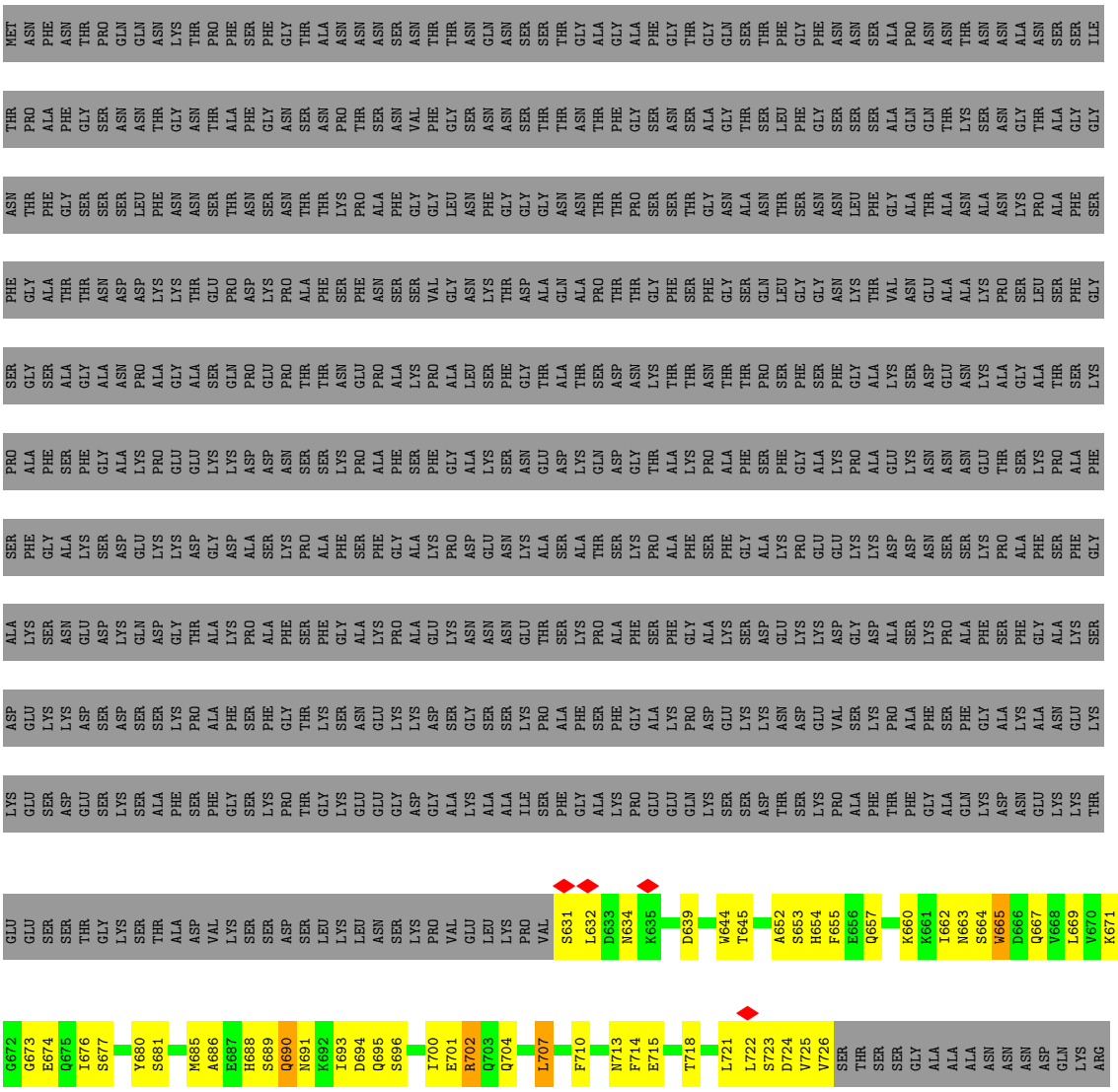
Chain G:

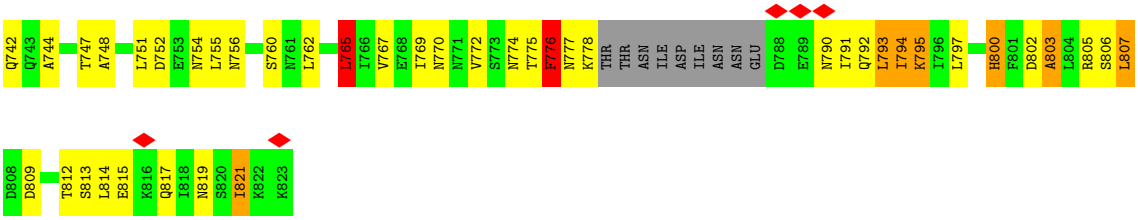




• Molecule 4: Nucleoporin NSP1

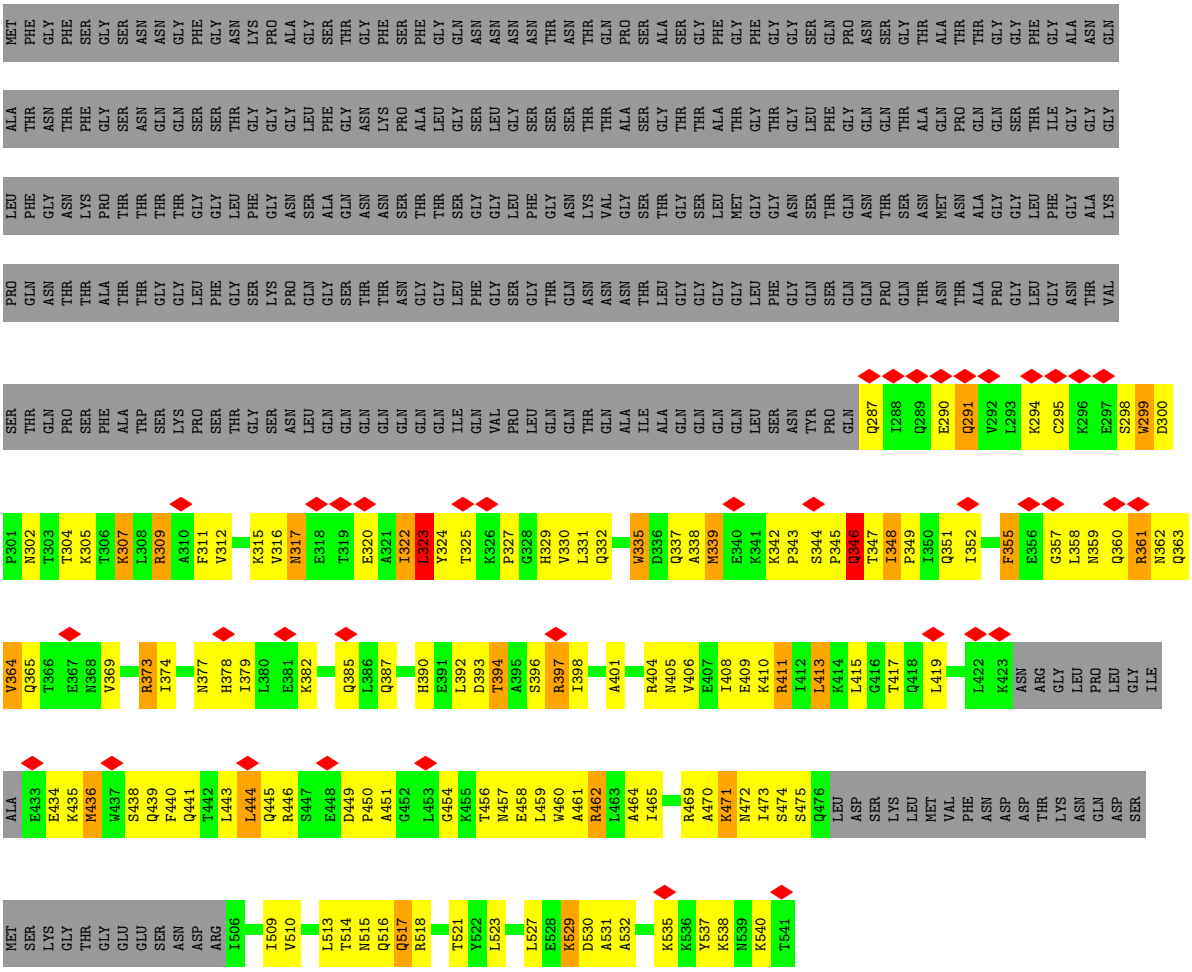
Chain J:





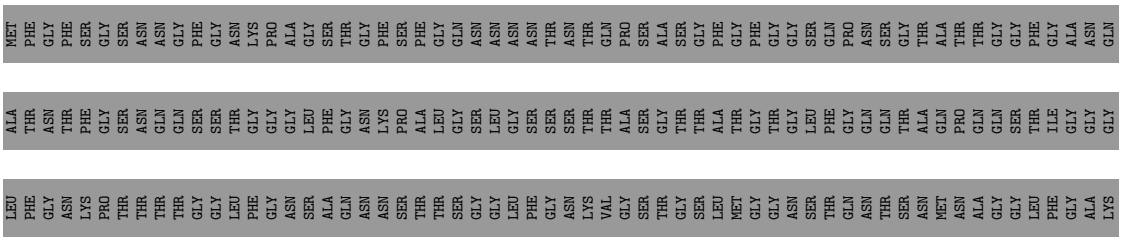
• Molecule 5: Nucleoporin NUP57

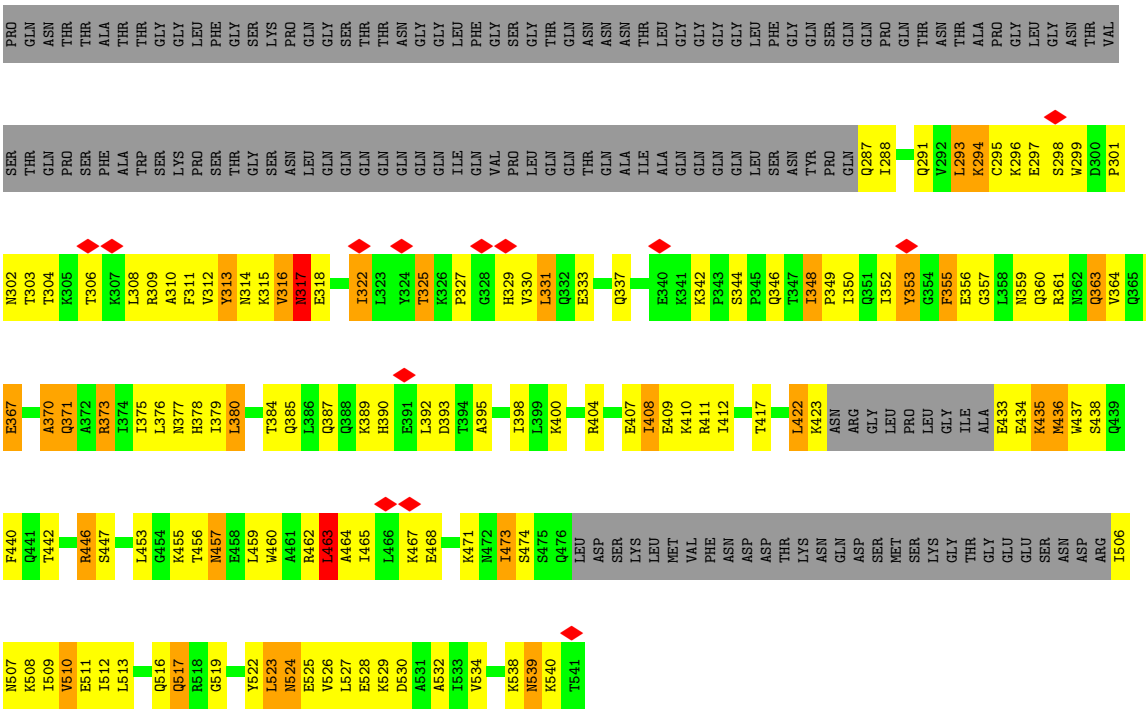
Chain B:



• Molecule 5: Nucleoporin NUP57

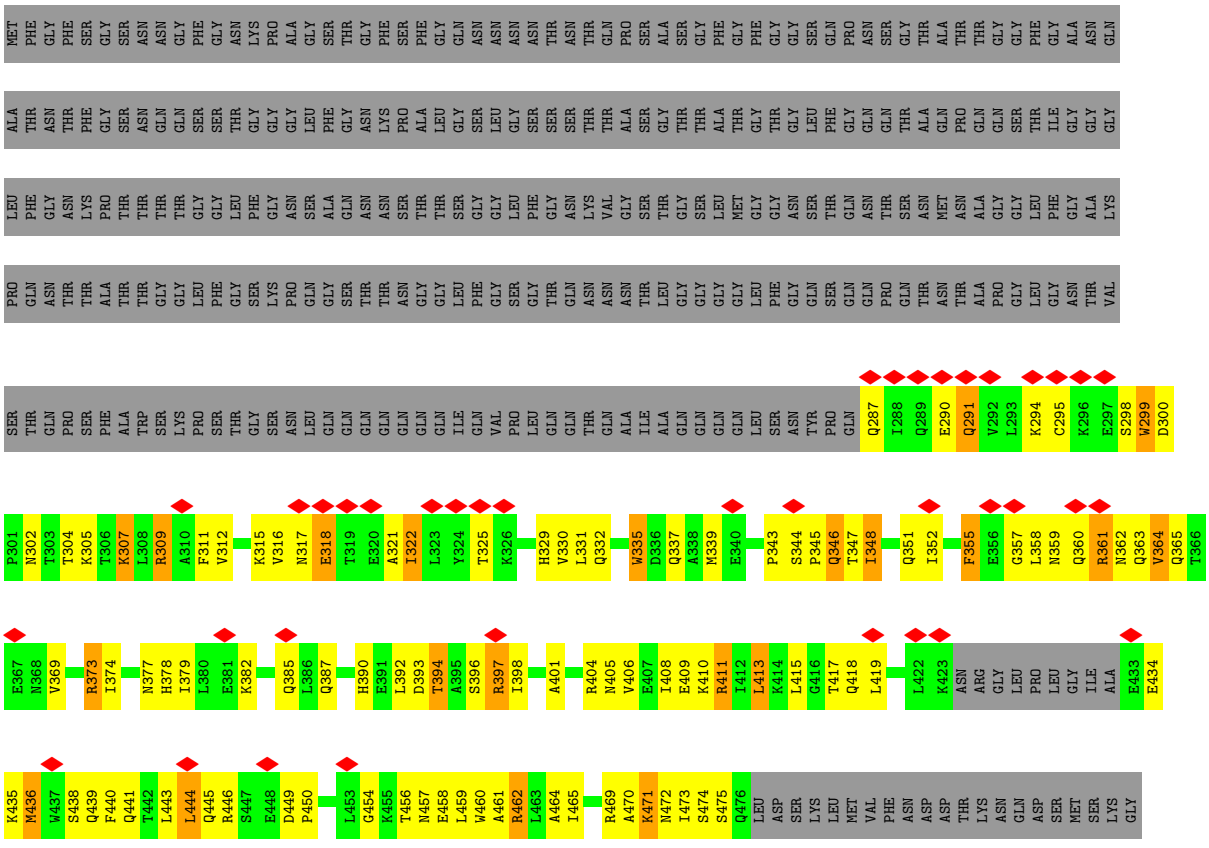
Chain E:

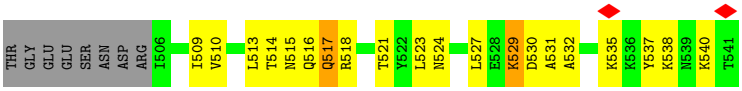




• Molecule 5: Nucleoporin NUP57

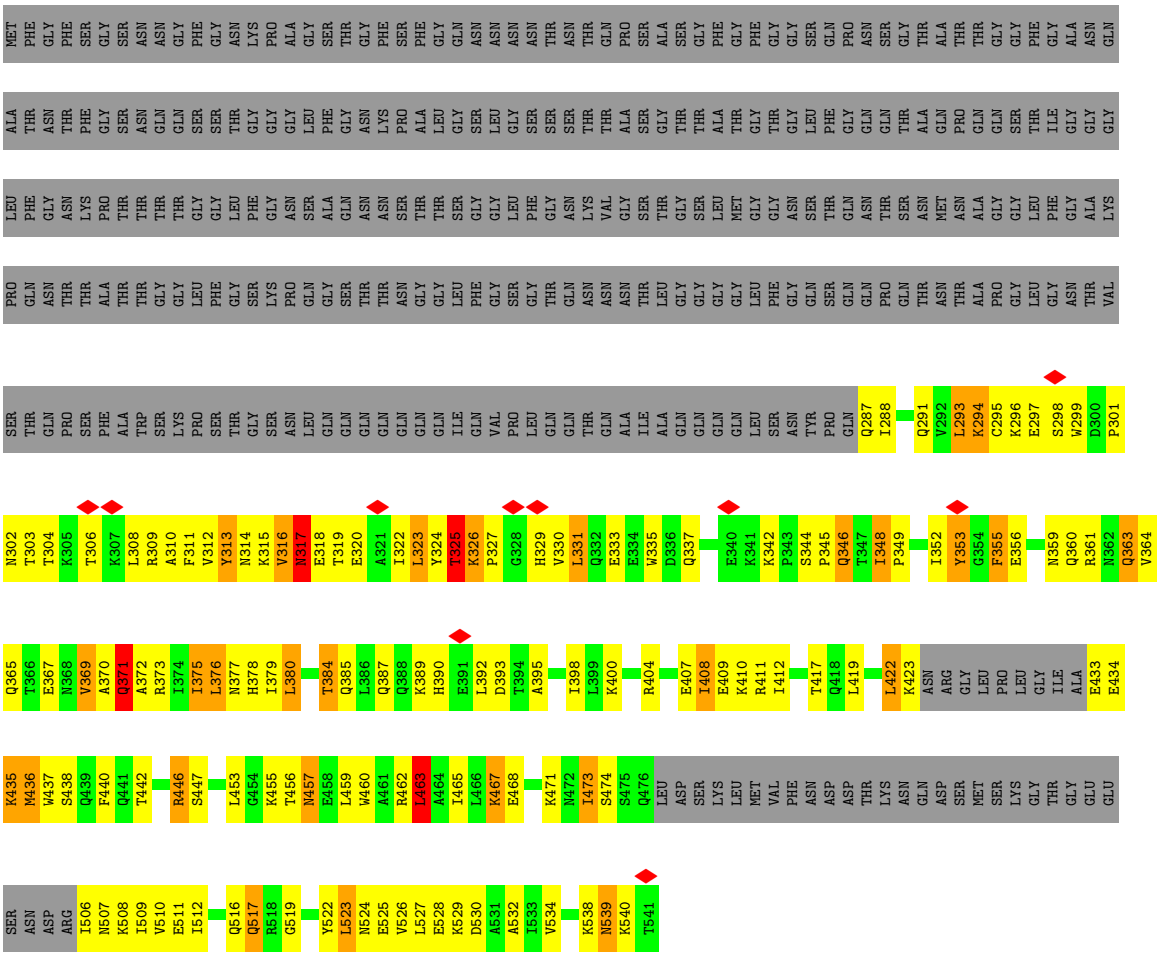
Chain H:





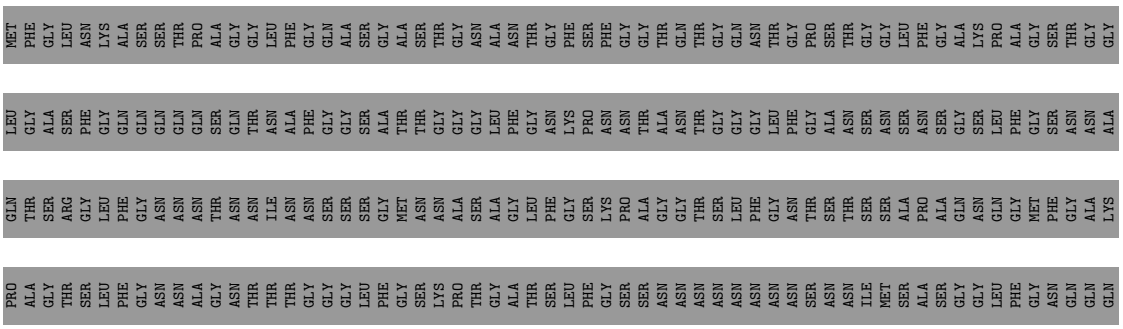
• Molecule 5: Nucleoporin NUP57

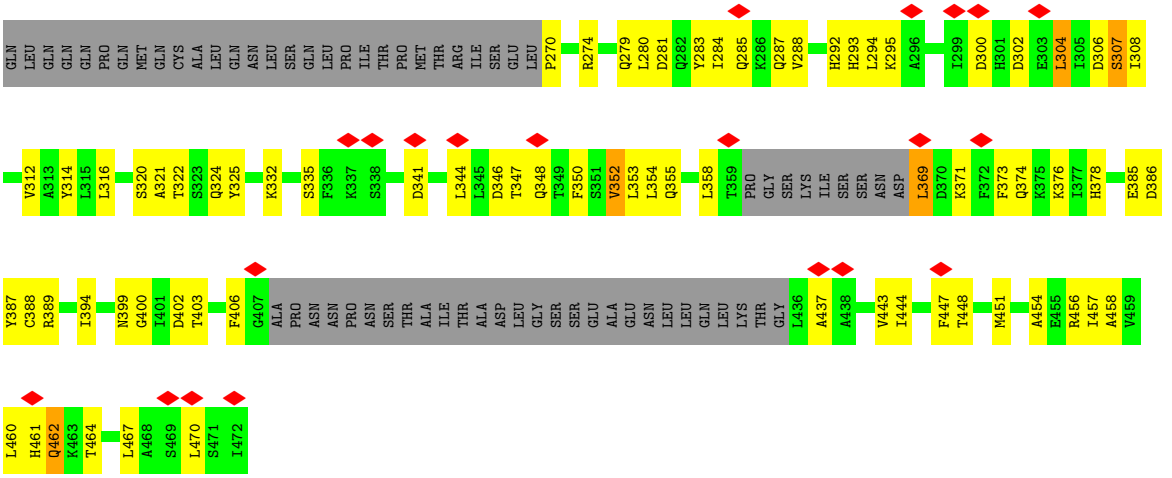
Chain K:



• Molecule 6: Nucleoporin NUP49/NSP49

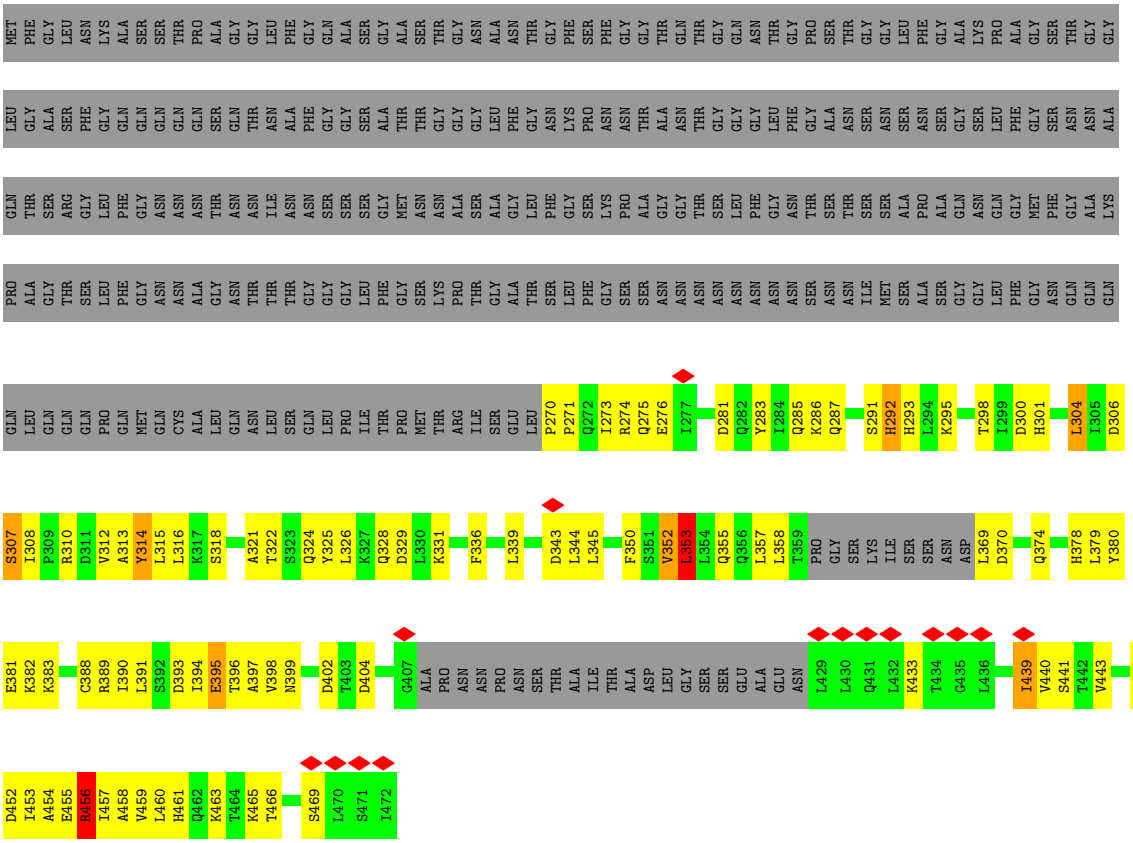
Chain C:





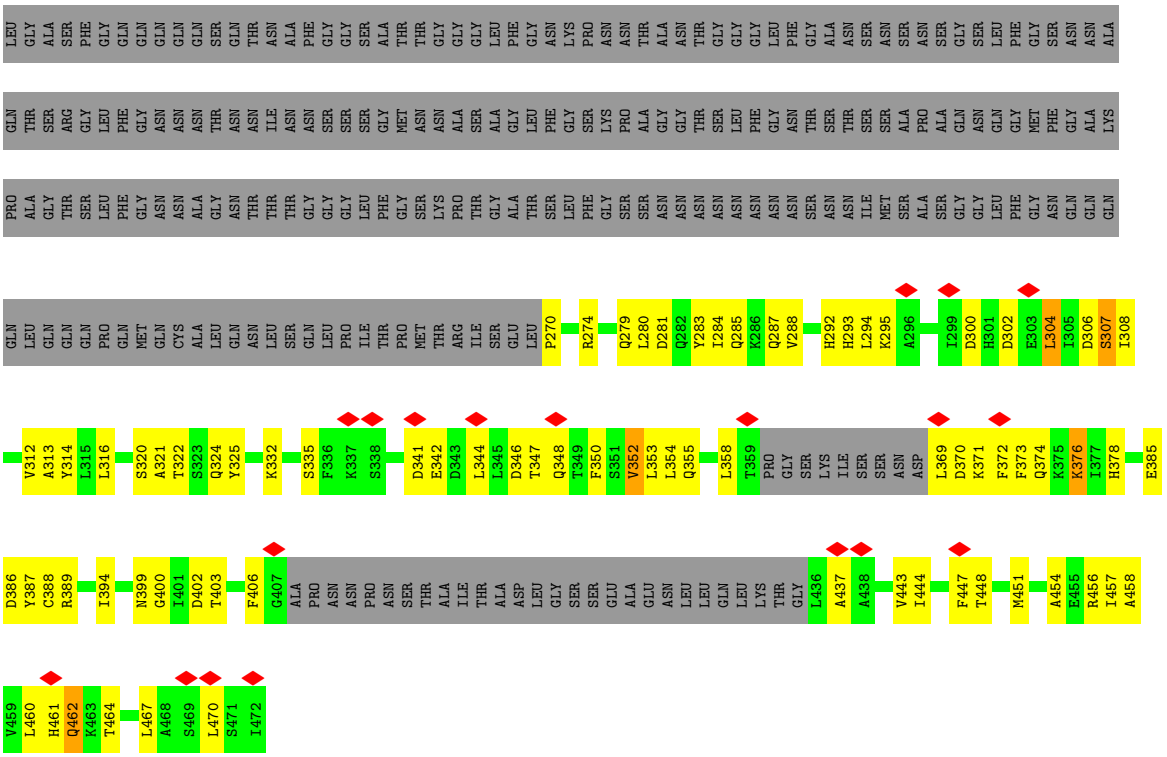
• Molecule 6: Nucleoporin NUP49/NSP49

Chain F:



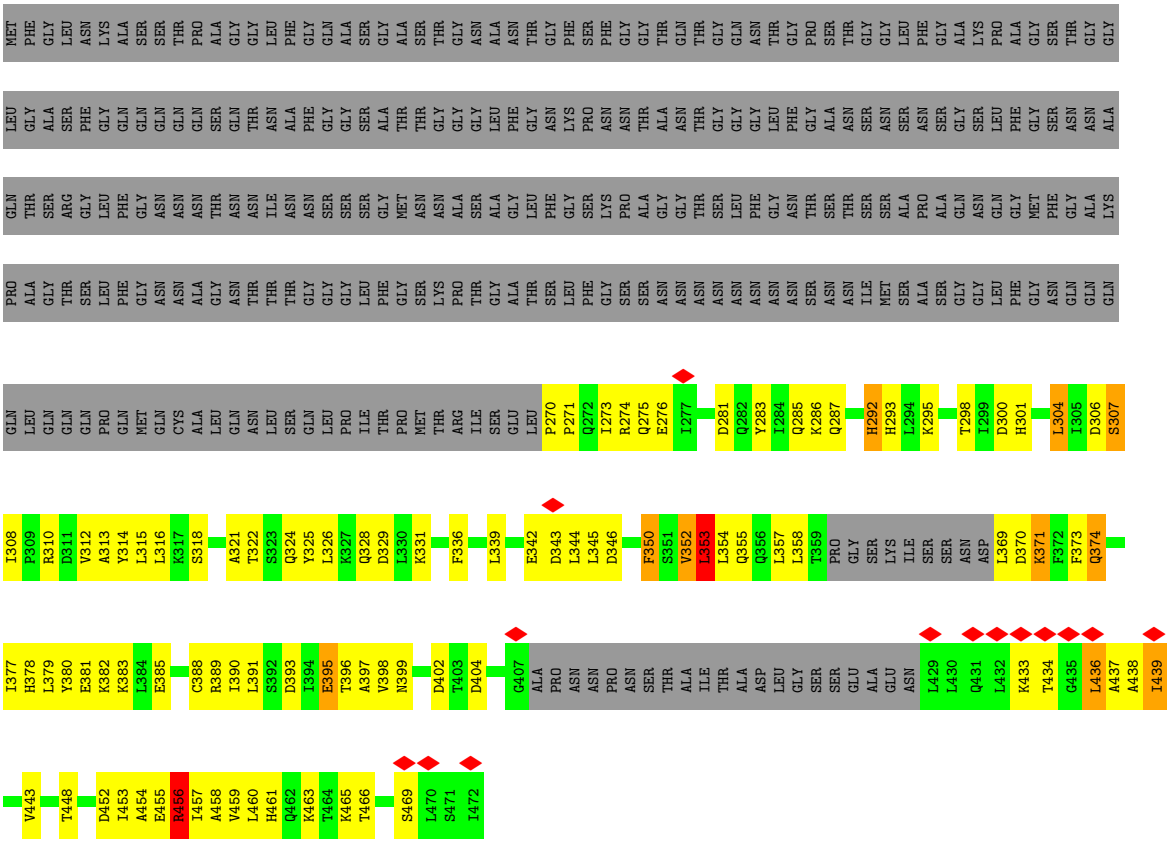
• Molecule 6: Nucleoporin NUP49/NSP49

Chain I:



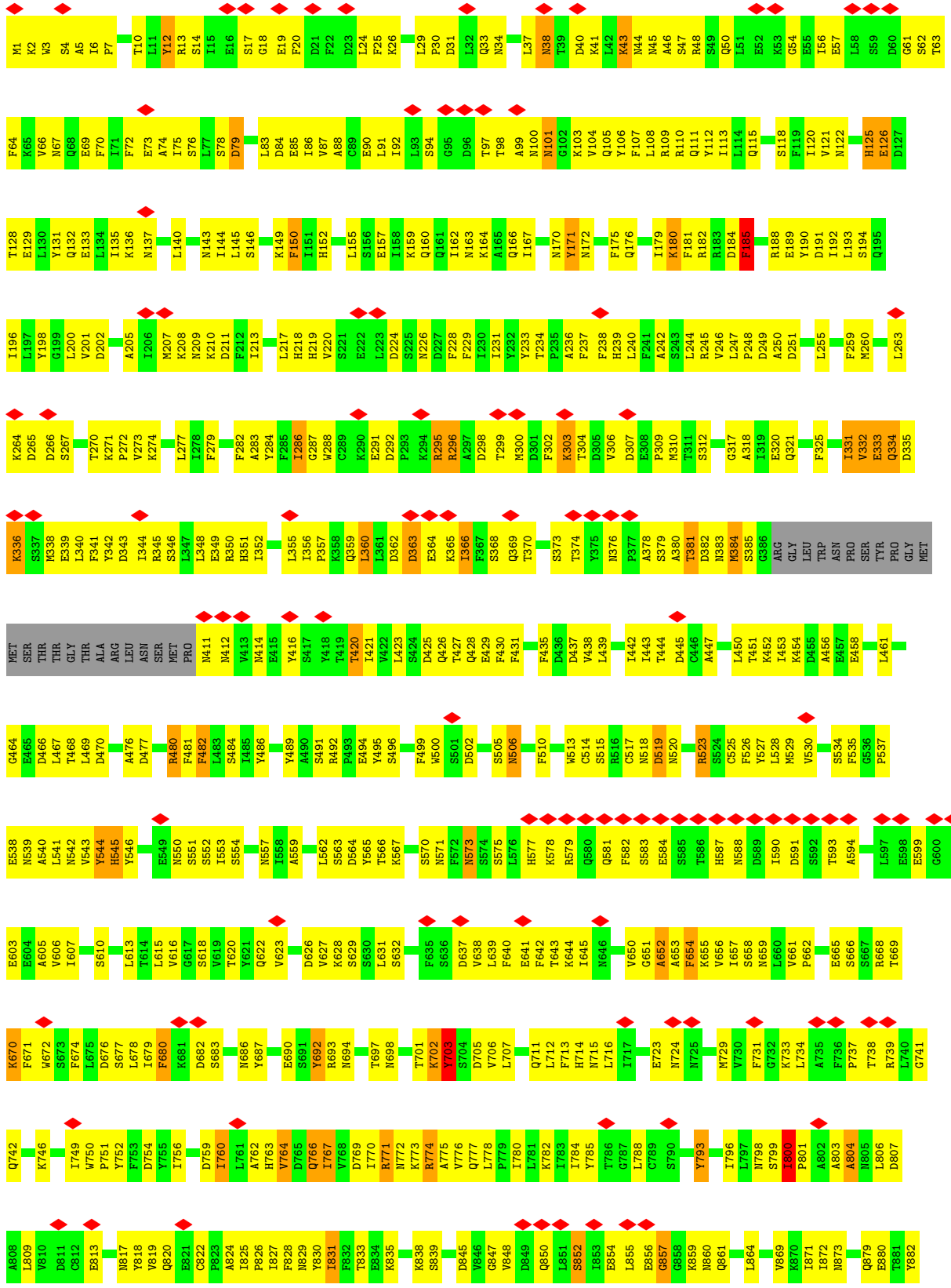
• Molecule 6: Nucleoporin NUP49/NSP49

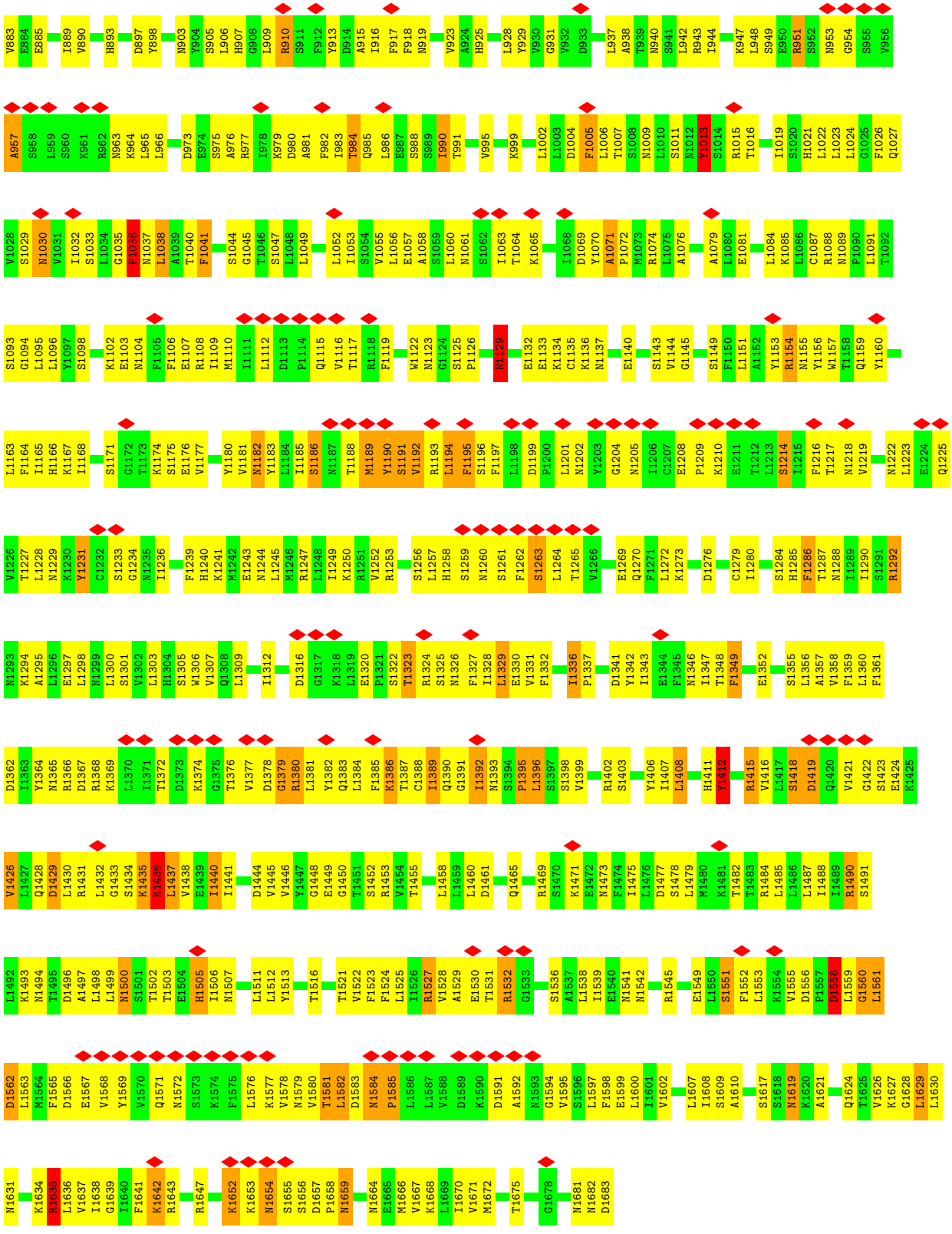
Chain L:



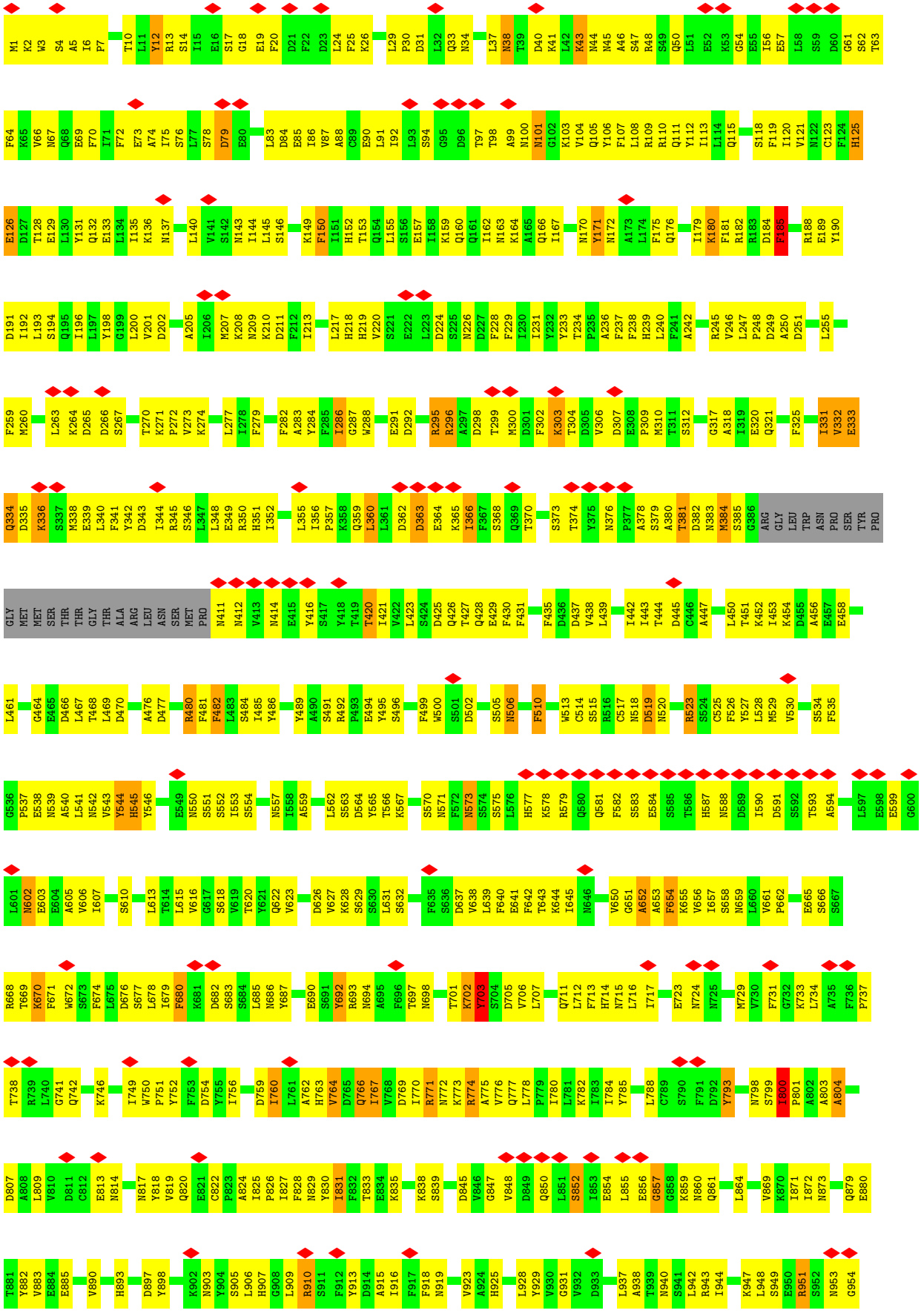
• Molecule 7: Nucleoporin NUP192

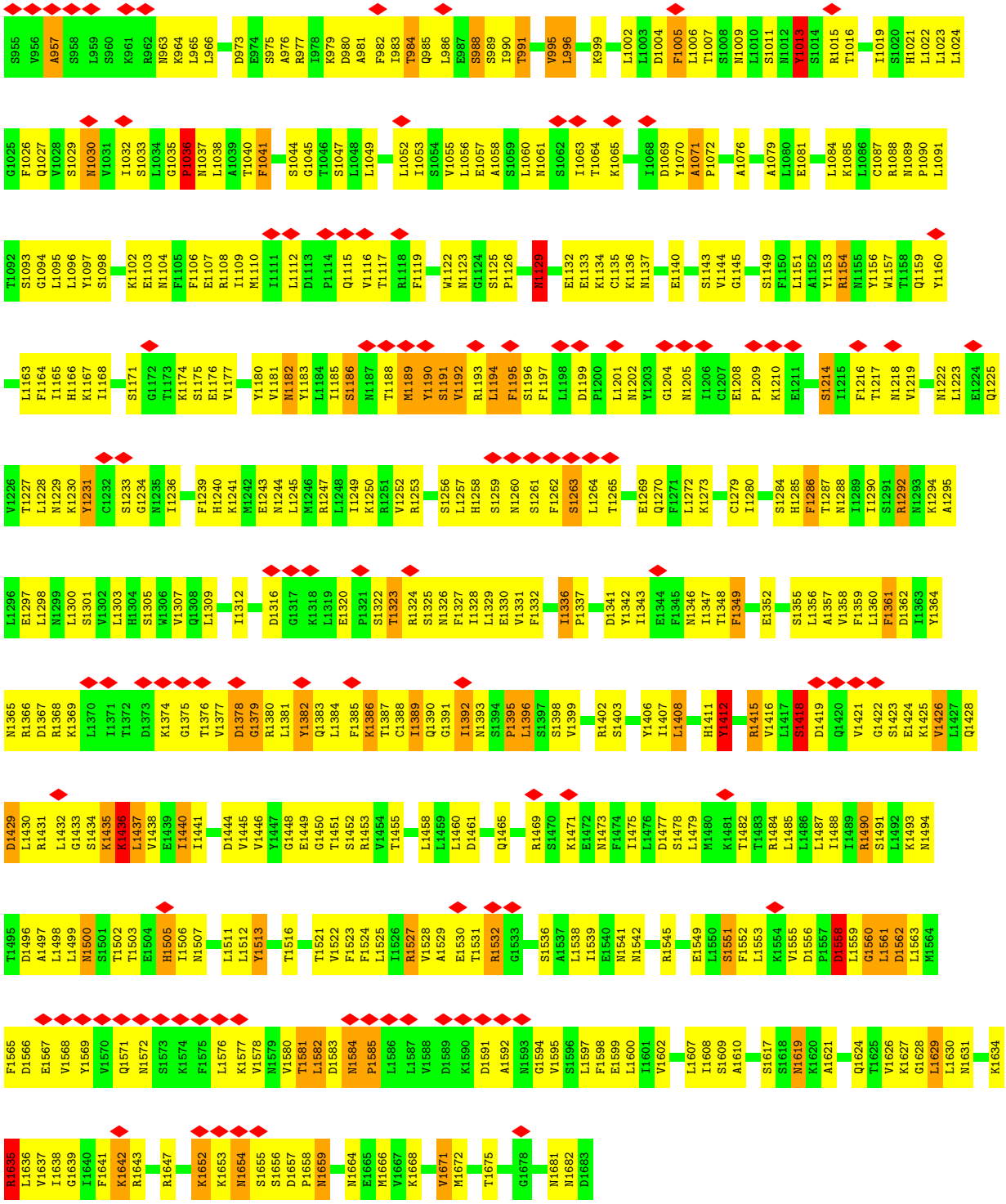
Chain M:



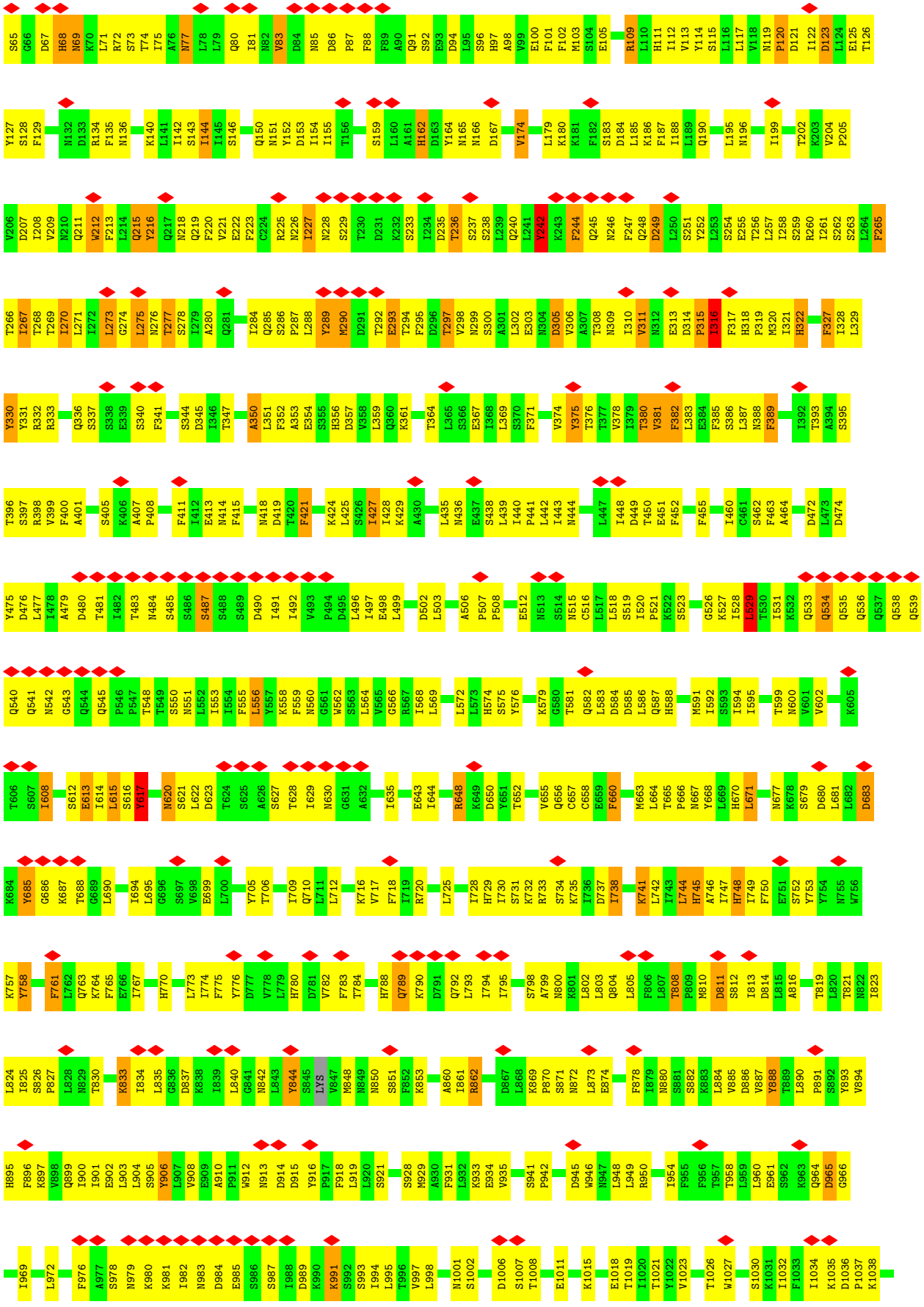


• Molecule 7: Nucleoporin NUP192





• Molecule 8: Nucleoporin NUP188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Y127 S128 F129 N132 D133 R134 F135 N136 K140 L141 I142 S143 I144 I145 S146 Q150 N151 Y152 D153 I154 I155 T156 S159 L160 A161 H162 D163 Y164 N165 N166 D167 V174 L179 K180 K181 F182 S183 D184 L185 K186 F187 I188 L189 Q190 L195 N196 I199 T202 K203 V204 P205
V206 D207 I208 V209 N210 Q211 W212 F213 L214 Q215 Y216 Q217 N218 Q219 F220 V221 E222 F223 C224 R225 N226 I227 N228 S229 T230 D231 K232 S233 I234 D235 T236 S237 S238 L239 Q240 L241 V242 K243 F244 Q245 N246 F247 Q248 D249 L250 S251 Y252 L253 S254 E255 T256 L257 I258 S259 R260 I261 S262 S263 L264 F265
T266 I267 T268 T269 I270 L271 I272 L273 G274 L275 N276 T277 S278 I279 A280 Q281 I284 Q285 S286 P287 L288 Y289 M290 D291 T292 E293 T294 F295 D296 T297 V298 N299 S300 A301 L302 E303 N304 D305 V306 A307 T308 N309 I310 V311 N312 E313 D314 P315 I316 F317 H318 P319 M320 I321 H322 F327 I328 L329
Y330 Y331 R332 R333 Q336 S337 S338 E339 S340 F341 S344 D345 I346 T347 A350 L351 F352 A353 E354 S355 H356 D357 V358 L359 Q360 K361 T364 L365 S366 E367 I368 L369 S370 F371 V374 Y375 T376 T377 V378 I379 T380 V381 F382 L383 E384 F385 S386 L387 N388 F389 I392 T393 A394 S395
T396 S397 R398 V399 F400 A401 S405 K406 A407 P408 F411 I412 E413 N414 F415 N418 D419 T420 F421 K424 L425 S426 T427 I428 K429 A430 L435 N436 E437 S438 L439 I440 P441 L442 I443 N444 L447 I448 D449 T450 E451 F452 F455 I460 C461 S462 F463 A464 D472 L473 D474
Y475 D476 L477 I478 A479 D480 T481 I482 T483 N484 S485 S486 S487 S488 S489 D490 I491 I492 V493 P494 D495 L496 I497 E498 L499 D502 L503 A506 P507 P508 E512 N513 S514 N515 C516 L517 L518 S519 I520 P521 K522 S523 G526 K527 I528 L529 T530 I531 K532 Q533 Q534 Q535 Q536 Q537 Q538 Q539
Q540 Q541 N542 G543 Q544 Q545 P546 P547 T548 T549 S550 N551 L552 I553 I554 F555 L556 Y557 K558 F559 N560 G561 W562 S563 L564 V565 G566 R567 I568 L569 L572 L573 H574 S575 Y576 K579 G580 T581 Q582 L583 D584 D585 L586 Q587 H588 M591 I592 S593 I594 I595 T599 N600 V601 V602 K605
T606 S607 I608 S612 E613 I614 L615 S616 Y617 N620 S621 L622 D623 T624 S625 A626 S627 T628 I629 N630 G631 A632 I635 E643 I644 R648 K649 D650 Y651 T652 V655 Q656 C657 C658 E659 F660 M663 L664 T665 P666 N667 Y668 L669 H670 L671 N677 K678 S679 D680 L681 L682 D683
K684 Y685 G686 K687 T688 G689 L690 I694 L695 G696 S697 V698 E699 L700 Y705 T706 I709 Q710 L711 L712 K716 V717 F718 I719 R720 L725 I728 H729 I730 S731 K732 R733 S734 K735 I736 D737 I738 K741 L742 I743 L744 H745 A746 I747 H748 I749 F750 E751 S752 Y753 Y754 N755 W756
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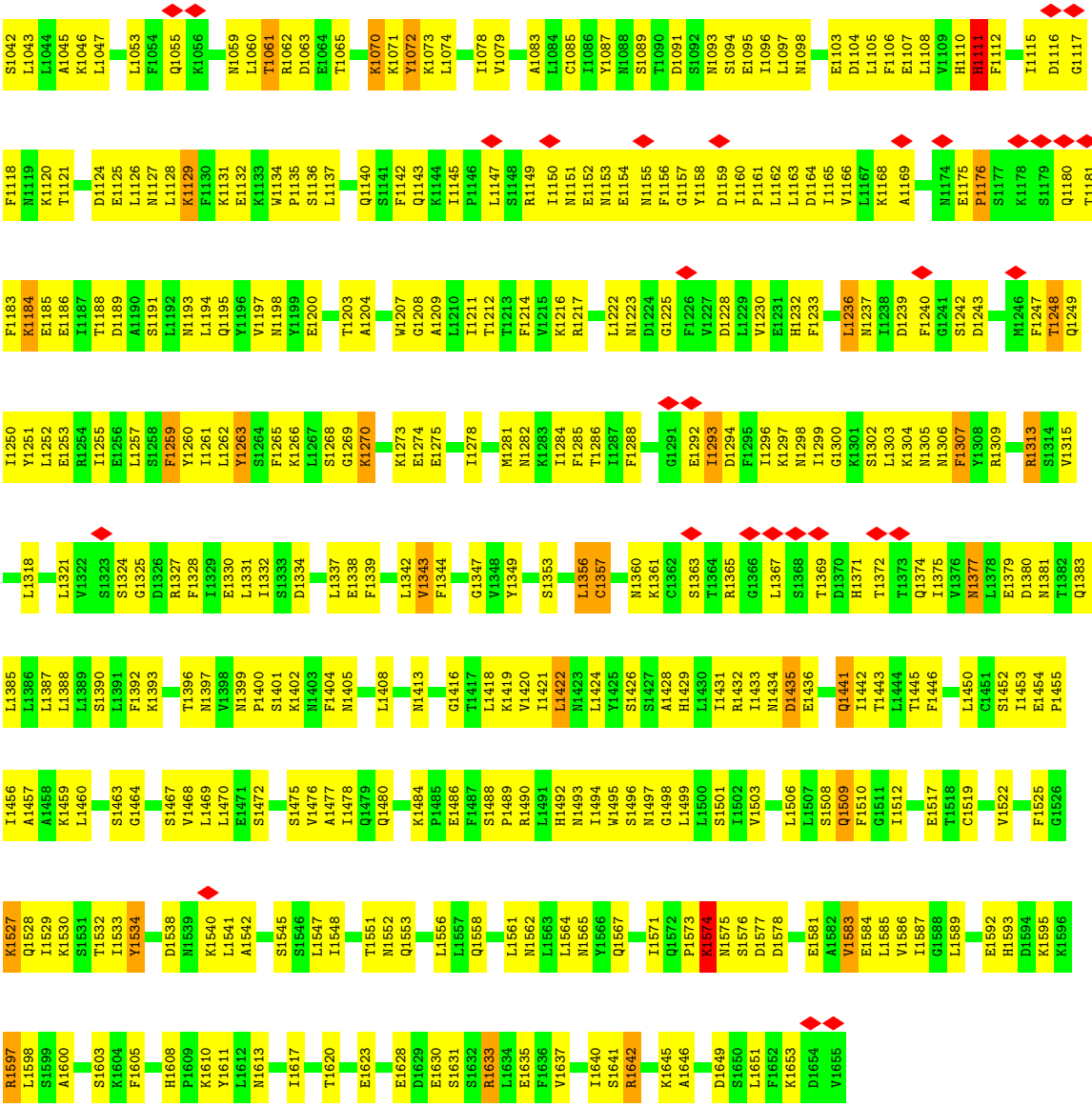
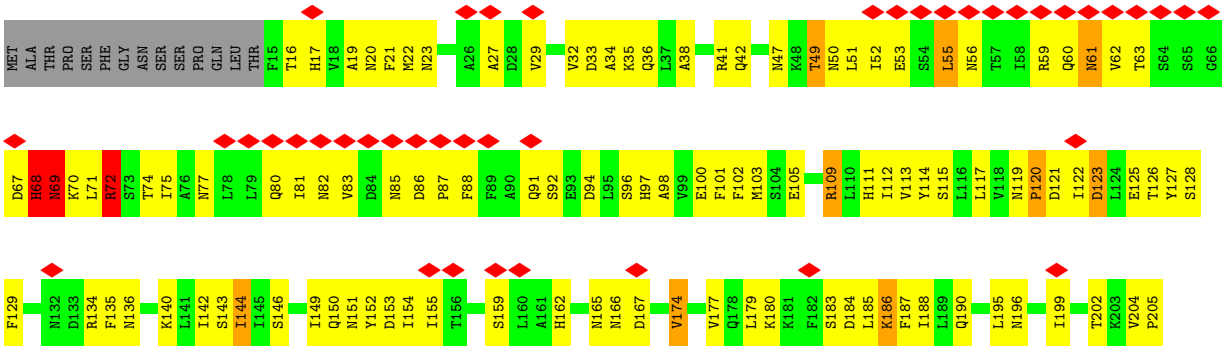
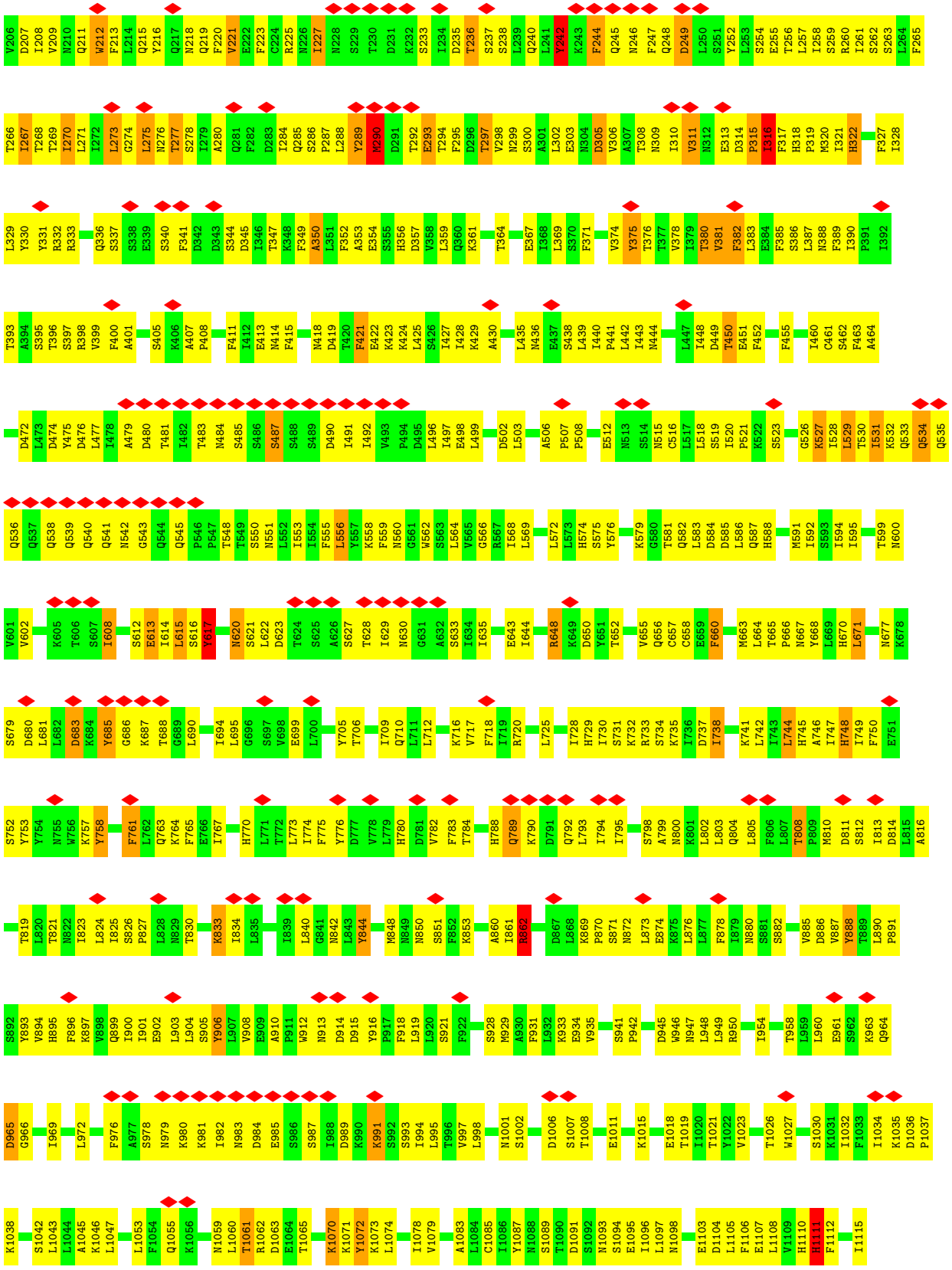
L824 I825 S826 P827 L828 N829 T830 K833 I834 L835 G836 D837 K838 I839 L840 G841 N842 L843 Y844 S845 LYS V847 M848 N849 N850 S851 F852 K853 A860 I861 R862 D867 L868 K869 P870 S871 N872 L873 E874 P878 I879 N880 S881 S882 K883 L884 V885 D886 V887 Y888 T889 L890 P891 S892 Y893 V894
H895 F896 K897 V898 Q899 I900 I901 E902 L903 L904 S905 Y906 L907 V908 E909 A910 P911 W912 N913 D914 D915 Y916 P917 F918 L919 L920 S921 S928 M929 A930 F931 L932 K933 E934 V935 S941 P942 D945 W946 N947 L948 L949 R950 I954 F955 F956 T957 T958 L959 L960 E961 S962 K963 Q964 D965 G966
I969 L972 F976 A977 S978 N979 K980 K981 I982 N983 D984 E985 S986 S987 I988 D989 K990 K991 S992 S993 I994 L995 T996 V997 L998 N1001 S1002 D1006 S1007 T1008 E1011 K1015 E1018 T1019 I1020 T1021 Y1022 V1023 T1026 W1027 S1030 K1031 I1032 F1033 I1034 K1035 D1036 P1037 K1038

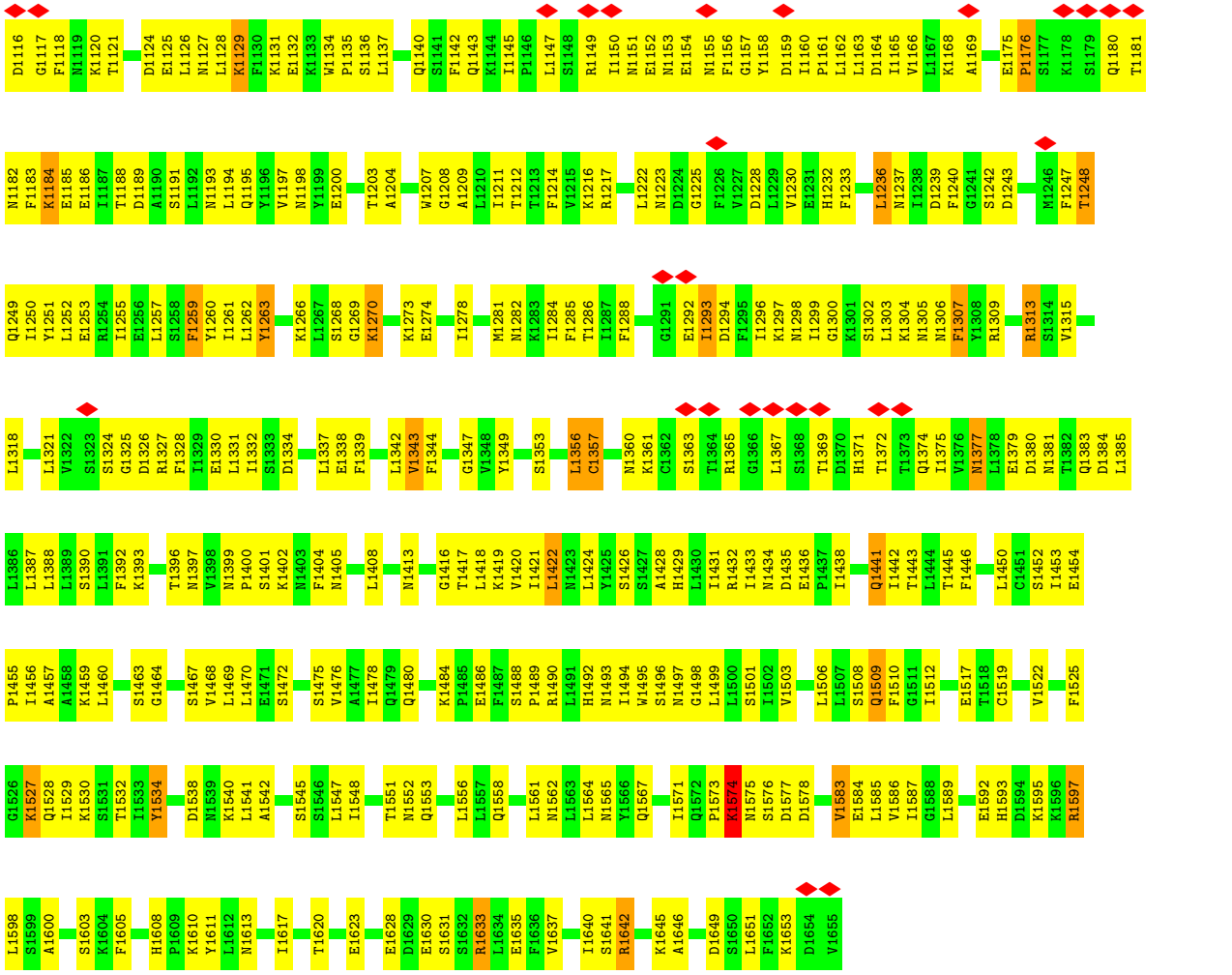


• Molecule 8: Nucleoporin NUP188

Chain P:

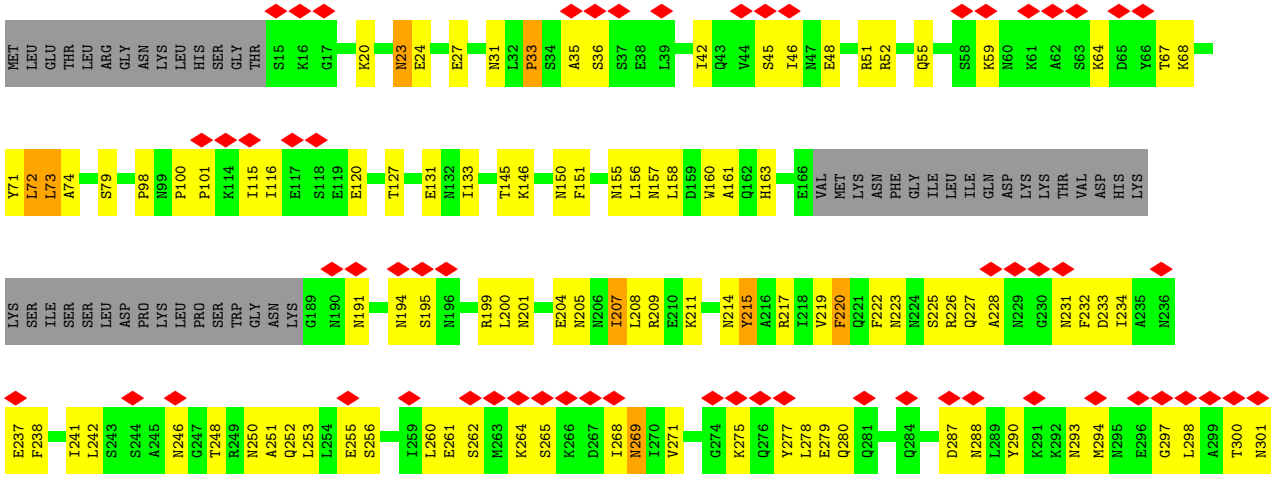


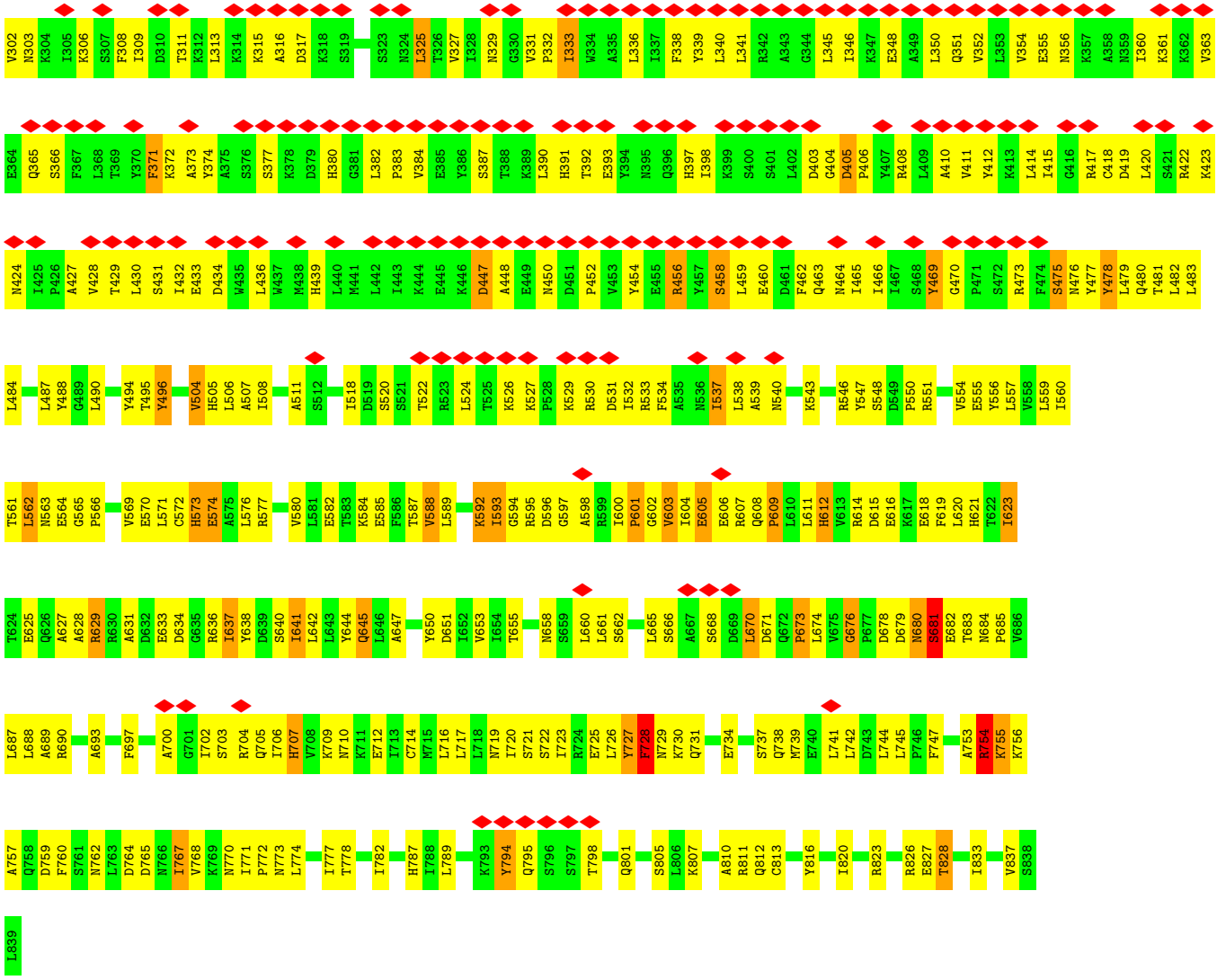

V206 D207 I208 V209 N210 Q211 W212 F213 L214 Q215 Y216 Q217 N218 Q219 F220 V221 E222 F223 C224 R225 N226 I227 N228 S229 T230 D231 K232 S233 I234 D235 T236 S237 S238 L239 Q240 L241 Y242 K243 F244 Q245 N246 F247 Q248 D249 L250 S251 Y252 L253 S254 E255 T256 L257 I258 S259 R260 I261 S262 S263 L264 F265
T266 I267 T268 T269 T270 L271 I272 L273 G274 L275 N276 T277 S278 I279 A280 Q281 F282 D283 I284 Q285 S286 P287 L288 Y289 N290 D291 T292 E293 T294 F295 D296 T297 V298 N299 S300 A301 L302 E303 N304 D305 V306 A307 T308 N309 I310 V311 N312 E313 D314 P315 I316 F317 H318 P319 M320 I321 H322 F327 I328
L329 Y330 Y331 R332 R333 Q336 S337 S338 E339 S340 F341 D342 D343 S344 D345 I346 T347 K348 F349 A350 L351 F352 A353 E354 S355 H356 D357 V358 L359 Q360 K361 T364 E367 I368 L369 S370 F371 V374 Y375 T376 T377 V378 I379 T380 V381 F382 L383 E384 F385 S386 L387 N388 F389 I390 P391 I392
T393 A394 S395 T396 S397 R398 V399 F400 A401 S405 K406 A407 P408 F411 I412 E413 N414 F415 N418 D419 T420 F421 E422 K423 K424 L425 S426 I427 I428 K429 A430 L435 N436 E437 S438 L439 I440 P441 L442 I443 N444 L447 I448 D449 T450 E451 F452 F455 I460 C461 S462 F463 A464
D472 L473 D474 Y475 D476 L477 I478 A479 D480 T481 I482 T483 N484 S485 S486 S487 S488 S489 D490 I491 I492 V493 P494 D495 L496 I497 E498 L499 D502 L503 A506 P507 P508 E512 N513 S514 N515 C516 L517 L518 S519 I520 P521 K522 S523 G526 K527 I528 L529 T530 I531 K532 Q533 Q534 Q535
Q536 Q537 Q538 Q539 Q540 Q541 N542 G543 Q544 Q545 P546 P547 T548 T549 S550 N551 L552 I553 I554 F555 L556 Y557 K558 F559 N560 G561 W562 S563 L564 V565 G566 R567 I568 L569 L572 L573 H574 S575 Y576 K579 G580 T581 Q582 L583 D584 D585 L586 Q587 H588 M591 I592 S593 I594 I595 T599 N600
V601 V602 K605 T606 S607 I608 S612 E613 I614 L615 S616 Y617 N620 S621 L622 D623 T624 S625 A626 S627 T628 I629 N630 G631 A632 S633 I634 I635 E643 I644 R648 K649 D650 Y651 T652 V655 Q656 C657 C658 E659 F660 M663 L664 T665 P666 N667 Y668 L669 H670 L671 N677 K678
S679 D680 L681 L682 D683 K684 Y685 G686 K687 T688 G689 L690 I694 L695 G696 S697 V698 E699 L700 Y705 T706 I709 Q710 L711 L712 K716 V717 F718 I719 R720 L725 I728 H729 I730 S731 K732 R733 S734 K735 I736 D737 I738 K741 L742 I743 L744 H745 A746 I747 H748 I749 F750 E751
S752 Y753 Y754 N755 W756 K757 Y758 F761 L762 Q763 K764 F765 E766 I767 H770 L771 T772 L773 I774 F775 Y776 D777 V778 L779 H780 D781 V782 F783 T784 H788 Q789 K790 D791 Q792 L793 I794 I795 S798 A799 N800 K801 L802 L803 Q804 L805 F806 L807 T808 P809 M810 D811 S812 I813 D814 L815 A816
T819 L820 T821 N822 I823 L824 I825 S826 P827 L828 N829 T830 K833 I834 L835 I839 L840 G841 N842 L843 Y844 N848 N849 N850 S851 F852 K853 A860 I861 R862 D867 L868 K869 P870 S871 N872 L873 E874 K875 L876 L877 F878 I879 N880 S881 S882 V885 D886 V887 Y888 T889 L890 P891
S892 Y893 V894 H895 F896 K897 W898 Q899 I900 I901 E902 L903 L904 S905 Y906 L907 V908 E909 A910 P911 W912 N913 D914 D915 Y916 P917 F918 L919 L920 S921 F922 S928 M929 A930 F931 L932 K933 E934 V935 S941 P942 D945 W946 N947 L948 L949 R950 I954 T958 L959 L960 E961 S962 K963 Q964
D965 G966 I969 L972 F976 A977 S978 N979 K980 K981 I982 N983 D984 E985 S986 S987 I988 D989 K990 K991 S992 S993 I994 L995 T996 V997 L998 N1001 S1002 D1006 S1007 T1008 E1011 K1015 E1018 T1019 I1020 T1021 Y1022 V1023 T1026 W1027 S1030 K1031 I1032 F1033 I1034 K1035 D1036 P1037
K1038 S1042 L1043 L1044 A1045 K1046 L1047 L1053 F1054 Q1055 K1056 N1059 L1060 T1061 R1062 D1063 E1064 T1065 K1070 K1071 Y1072 K1073 L1074 I1078 V1079 A1083 L1084 C1085 I1086 Y1087 N1088 S1089 T1090 D1091 S1092 N1093 S1094 E1095 I1096 L1097 N1098 E1103 D1104 L1105 F1106 E1107 L1108 V1109 H1110 H1111 F1112 I1115



• Molecule 9: Nucleoporin NIC96

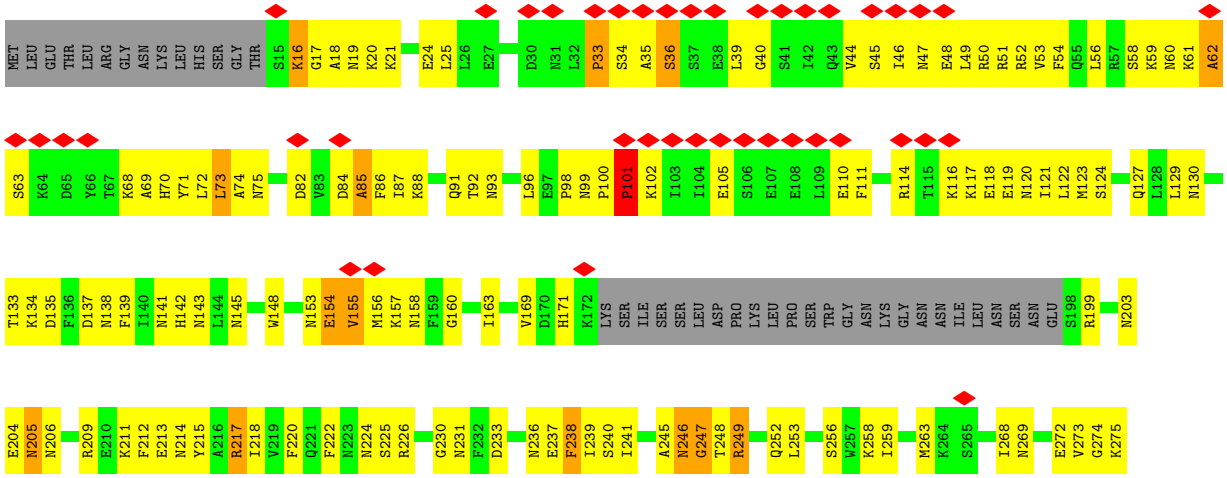
Chain Q:

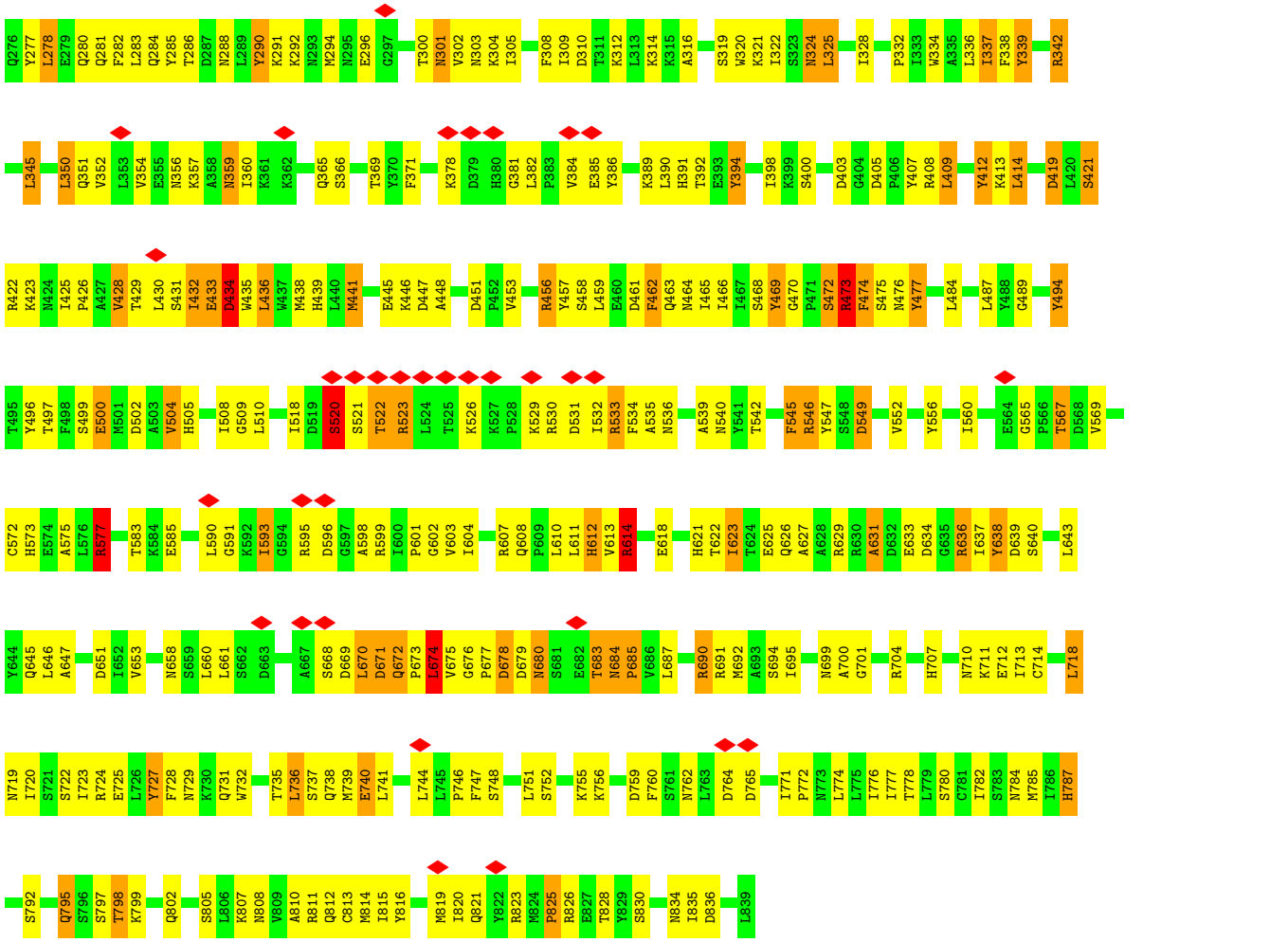




• Molecule 9: Nucleoporin NIC96

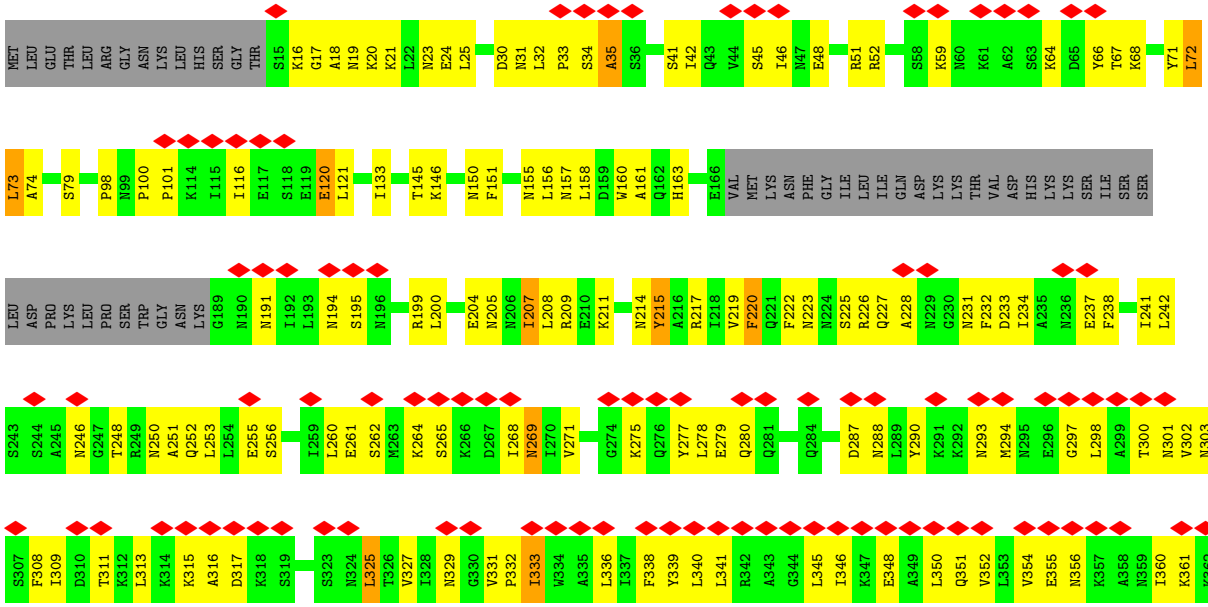
Chain R:

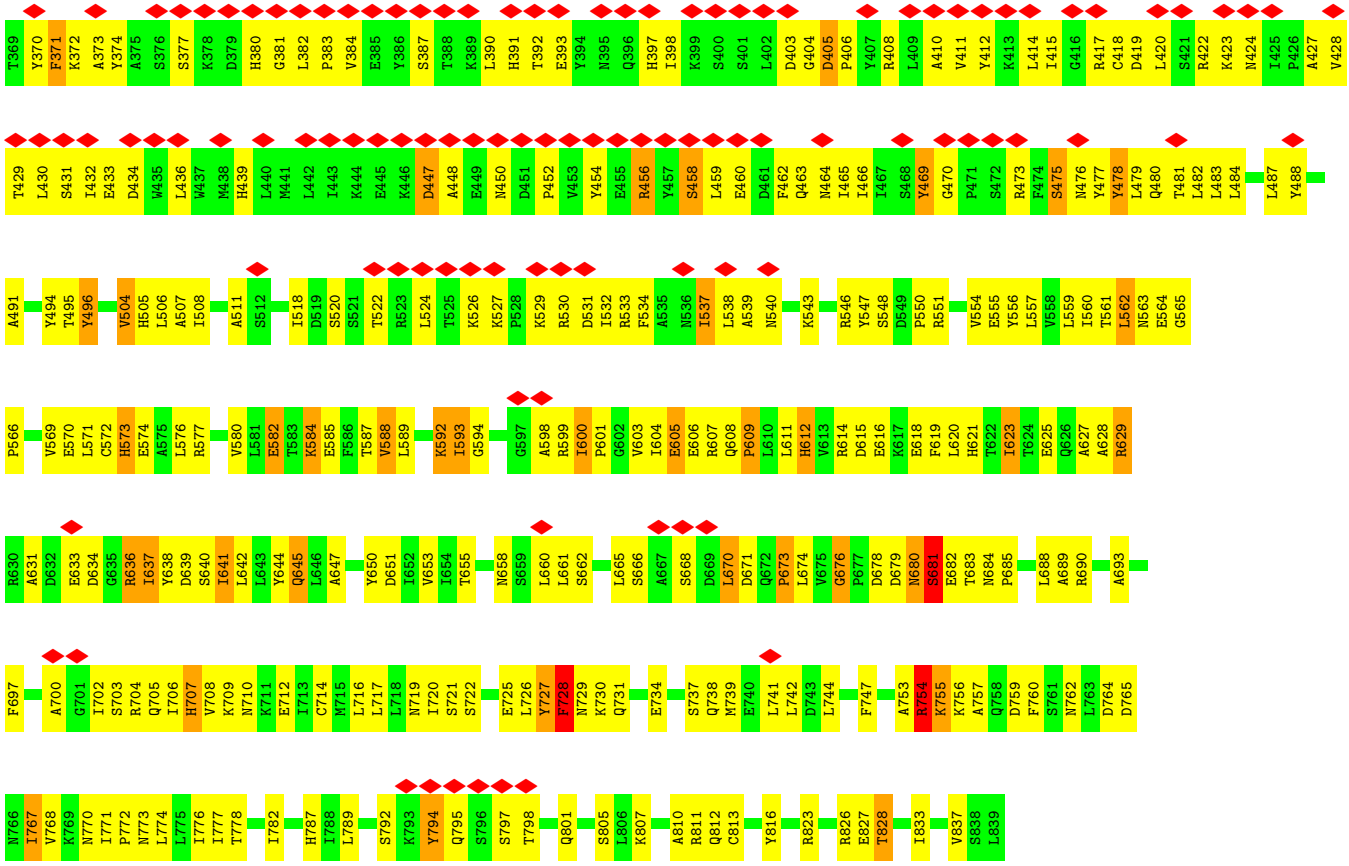




• Molecule 9: Nucleoporin NIC96

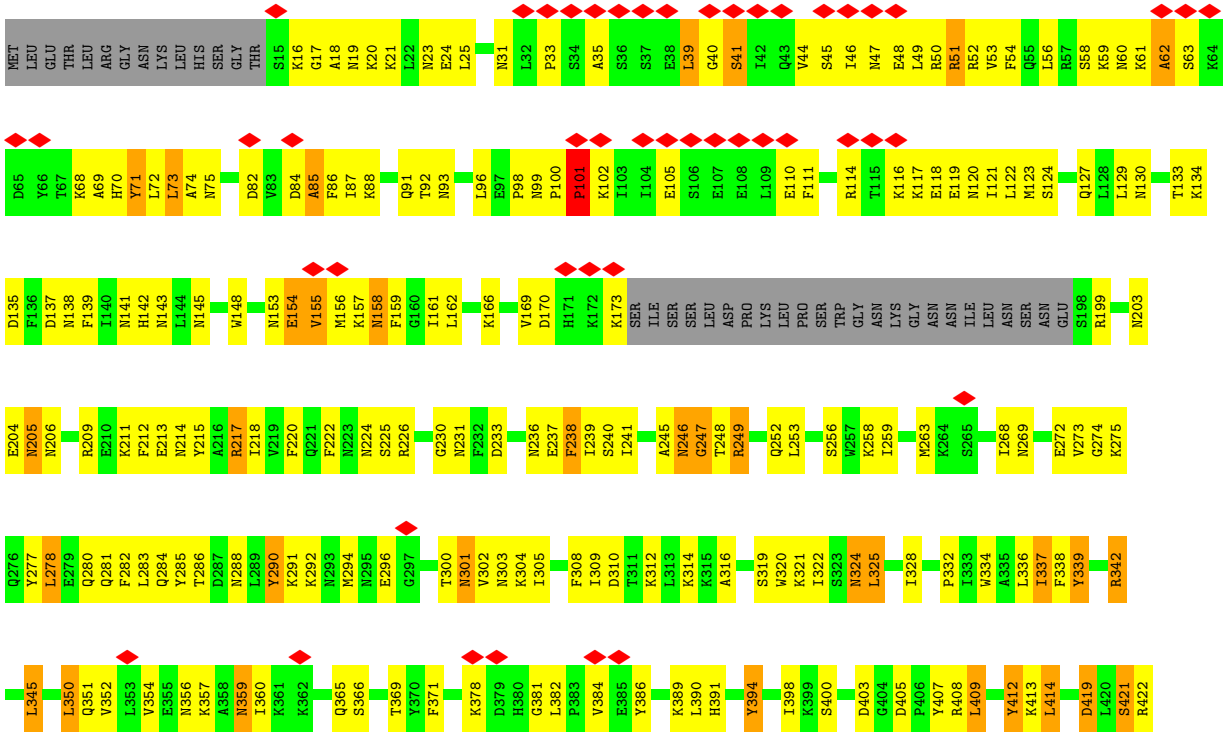
Chain S:

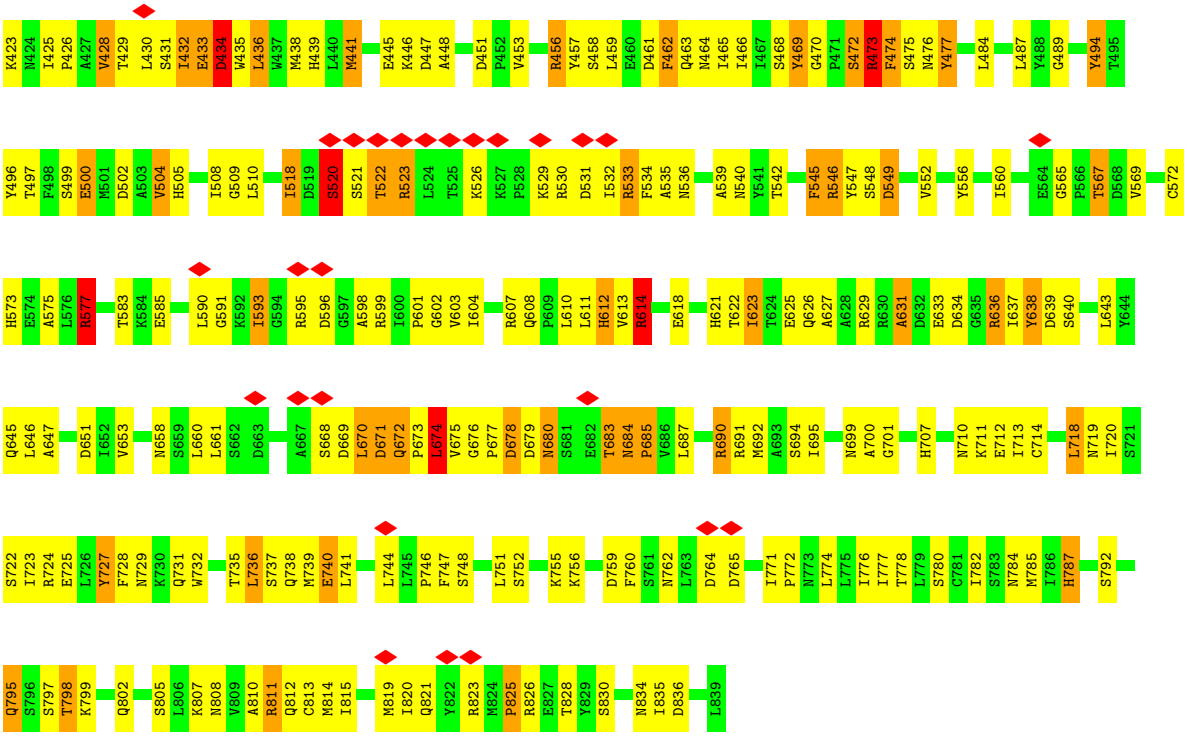




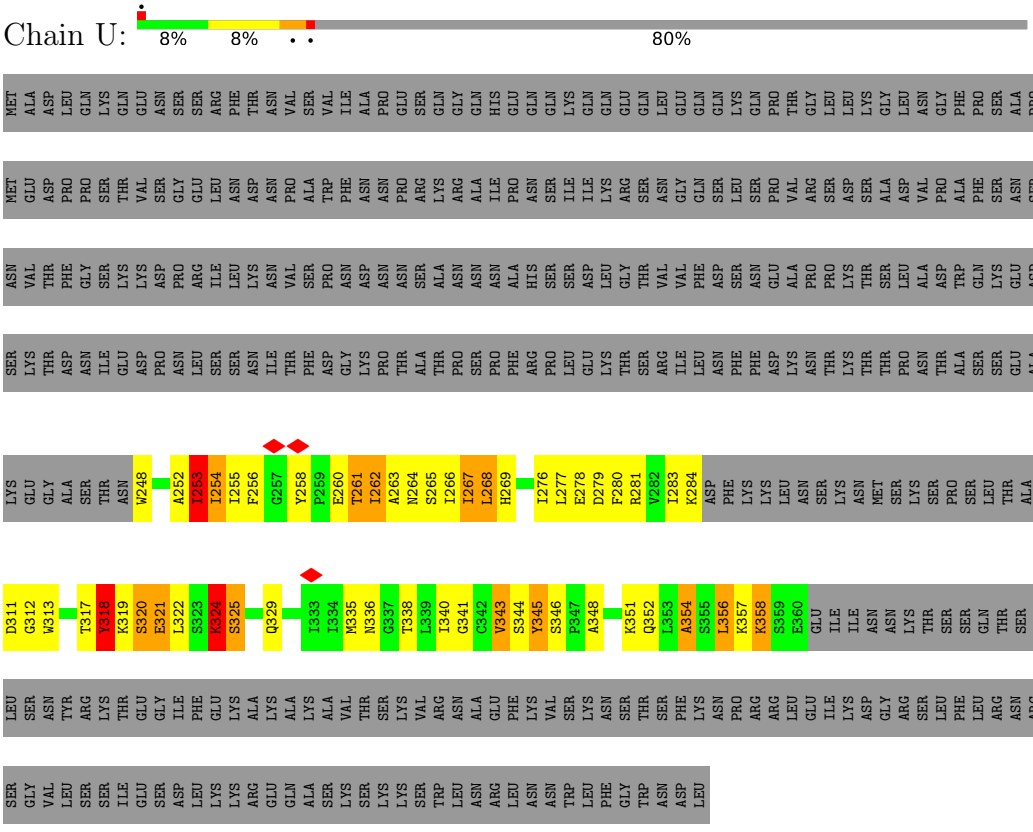
• Molecule 9: Nucleoporin NIC96

Chain T:



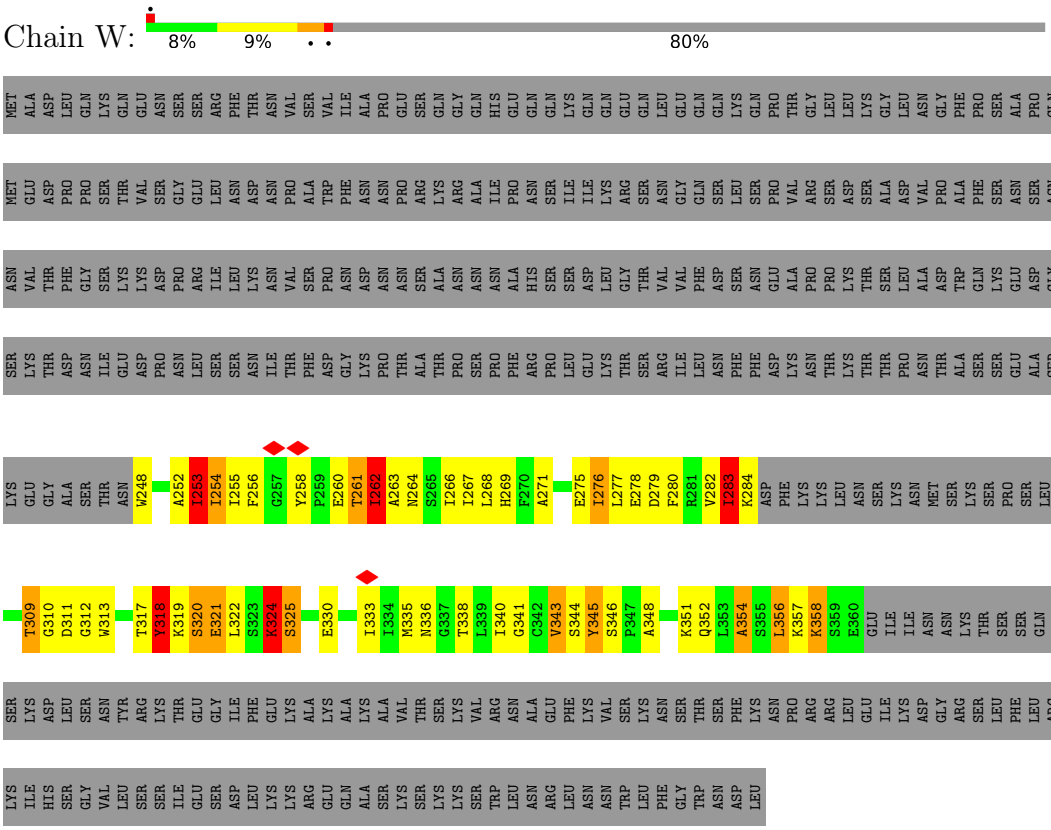


• Molecule 10: Nucleoporin NUP53



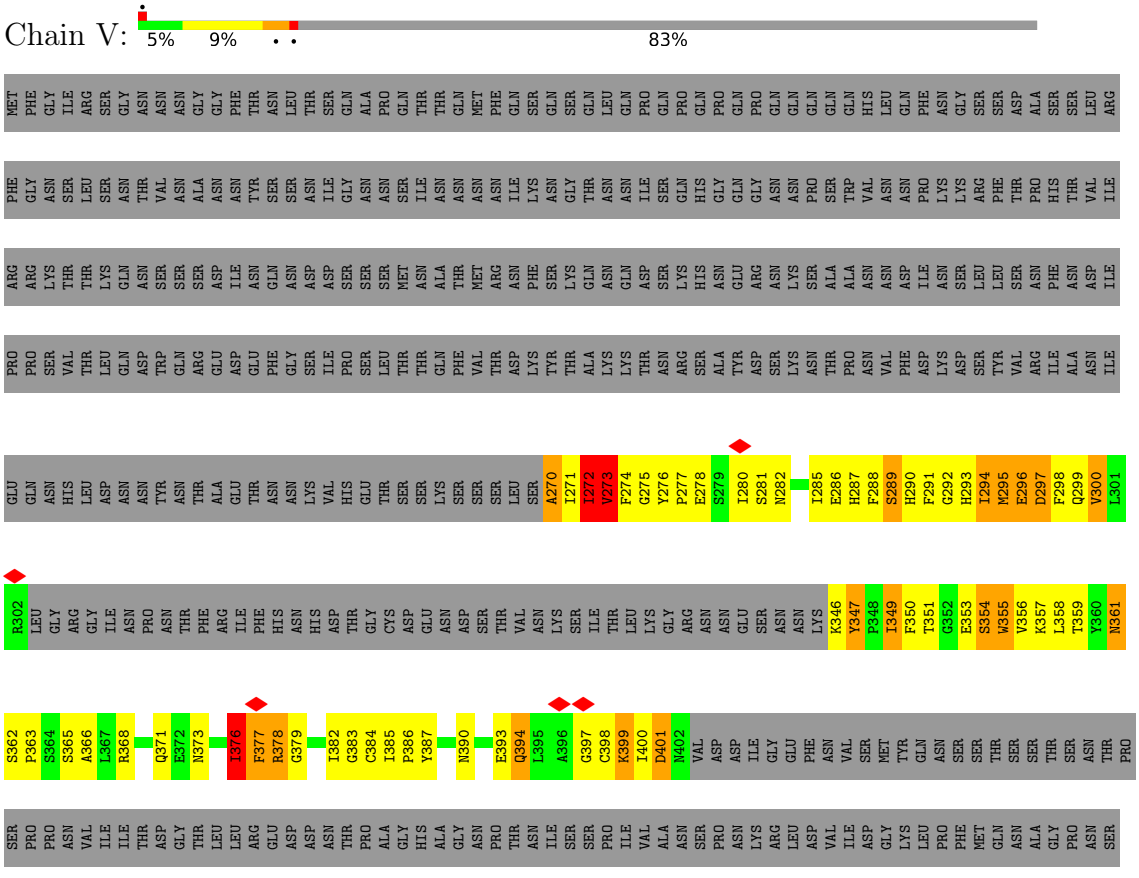
• Molecule 10: Nucleoporin NUP53

Chain W:



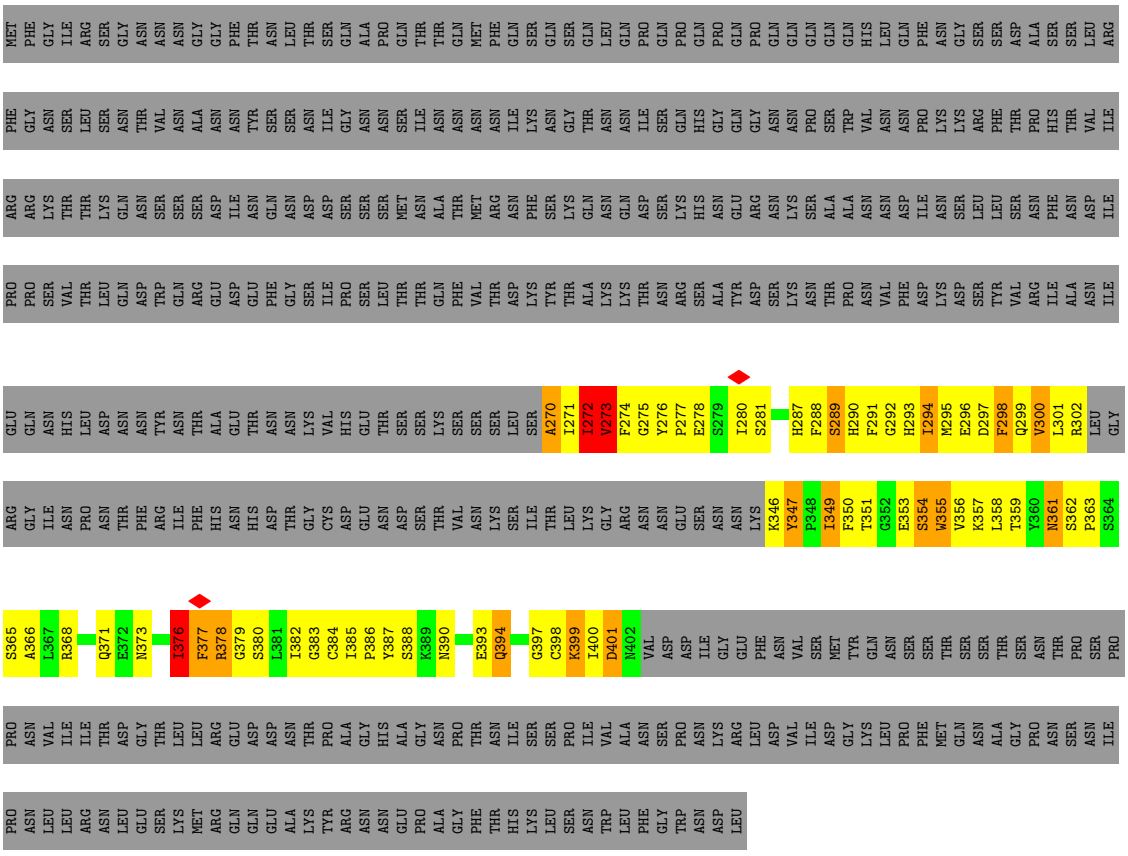
• Molecule 11: Nucleoporin 59

Chain V:



• Molecule 11: Nucleoporin 59

Chain X: 9% 83%



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	208392	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION; CTF correction applied in RELION during the alignment and reconstruction	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	40	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	37651	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	5.816	Depositor
Minimum map value	-1.894	Depositor
Average map value	0.011	Depositor
Map value standard deviation	0.095	Depositor
Recommended contour level	0.65	Depositor
Map size (Å)	1276.8, 1276.8, 1276.8	wwPDB
Map dimensions	480, 480, 480	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.66, 2.66, 2.66	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
2	0	2.23	328/10219 (3.2%)	2.48	757/13825 (5.5%)
2	Y	2.23	335/10219 (3.3%)	2.48	756/13825 (5.5%)
3	1	2.26	343/9504 (3.6%)	2.48	683/12863 (5.3%)
3	Z	2.26	344/9504 (3.6%)	2.48	682/12863 (5.3%)
4	A	2.15	33/1328 (2.5%)	2.55	98/1791 (5.5%)
4	D	2.20	39/1358 (2.9%)	2.45	98/1833 (5.3%)
4	G	2.16	34/1328 (2.6%)	2.54	98/1791 (5.5%)
4	J	2.19	36/1360 (2.6%)	2.43	95/1836 (5.2%)
5	B	2.56	70/1793 (3.9%)	2.38	104/2411 (4.3%)
5	E	2.16	55/1793 (3.1%)	2.33	100/2411 (4.1%)
5	H	2.23	68/1793 (3.8%)	2.36	103/2411 (4.3%)
5	K	2.12	56/1793 (3.1%)	2.28	96/2411 (4.0%)
6	C	2.05	29/1364 (2.1%)	2.33	79/1837 (4.3%)
6	F	2.10	44/1398 (3.1%)	2.38	87/1884 (4.6%)
6	I	2.04	30/1364 (2.2%)	2.31	75/1837 (4.1%)
6	L	2.09	43/1398 (3.1%)	2.38	86/1884 (4.6%)
7	M	2.21	481/13592 (3.5%)	2.49	1018/18408 (5.5%)
7	O	2.21	471/13592 (3.5%)	2.49	1029/18408 (5.6%)
8	N	2.27	433/13423 (3.2%)	2.50	1009/18194 (5.5%)
8	P	2.28	439/13433 (3.3%)	2.50	1001/18208 (5.5%)
9	Q	2.22	197/6050 (3.3%)	2.46	440/8208 (5.4%)
9	R	2.19	206/6073 (3.4%)	2.45	415/8244 (5.0%)
9	S	2.24	198/6050 (3.3%)	2.48	450/8208 (5.5%)
9	T	2.19	208/6078 (3.4%)	2.45	413/8251 (5.0%)
10	U	1.93	20/761 (2.6%)	2.07	34/1027 (3.3%)
10	W	1.89	19/761 (2.5%)	2.05	34/1027 (3.3%)
11	V	1.86	15/727 (2.1%)	2.14	37/982 (3.8%)
11	X	1.86	15/727 (2.1%)	2.12	40/982 (4.1%)
All	All	2.22	4589/138783 (3.3%)	2.46	9917/187860 (5.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	7	0	1
1	8	0	1
2	0	0	34
2	Y	0	35
3	1	0	37
3	Z	0	37
4	A	0	1
4	D	0	1
4	G	0	1
4	J	0	1
5	B	0	3
5	E	0	3
5	H	0	3
5	K	0	2
6	C	0	2
6	F	0	1
6	I	0	2
6	L	0	1
7	M	0	44
7	O	0	45
8	N	0	26
8	P	0	27
9	Q	0	16
9	R	0	17
9	S	0	17
9	T	0	17
10	U	0	2
10	W	0	1
11	V	0	1
11	X	0	1
All	All	0	380

All (4589) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	P	613	GLU	CG-CD	59.91	3.01	1.52
8	N	613	GLU	CG-CD	59.89	3.01	1.52
5	B	323	LEU	CB-CG	53.21	2.59	1.53
8	N	617	TYR	CG-CD2	21.23	1.83	1.39
8	P	617	TYR	CG-CD2	21.20	1.83	1.39
8	P	617	TYR	CG-CD1	20.86	1.83	1.39
8	N	617	TYR	CG-CD1	20.86	1.83	1.39
8	P	617	TYR	CE2-CZ	17.71	1.80	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	N	617	TYR	CE2-CZ	17.62	1.80	1.38
8	P	617	TYR	CE1-CZ	17.17	1.79	1.38
8	N	617	TYR	CE1-CZ	17.16	1.79	1.38
3	Z	1161	HIS	ND1-CE1	12.58	1.45	1.32
2	0	91	ARG	C-N	12.54	1.40	1.33
3	1	1161	HIS	ND1-CE1	12.45	1.45	1.32
8	P	617	TYR	CD1-CE1	12.45	1.75	1.38
2	Y	91	ARG	C-N	12.44	1.40	1.33
8	N	617	TYR	CD1-CE1	12.40	1.75	1.38
2	Y	1206	ARG	C-N	11.74	1.48	1.33
2	0	1206	ARG	C-N	11.66	1.48	1.33
7	O	288	TRP	CA-C	-11.37	1.38	1.52
7	M	288	TRP	CA-C	-11.36	1.38	1.52
8	N	204	VAL	N-CA	-11.35	1.35	1.46
8	P	204	VAL	N-CA	-11.33	1.35	1.46
8	N	617	TYR	CD2-CE2	11.31	1.72	1.38
9	R	423	LYS	CA-C	-11.28	1.47	1.53
8	P	617	TYR	CD2-CE2	11.25	1.72	1.38
3	1	709	PHE	N-CA	-11.17	1.33	1.46
3	Z	709	PHE	N-CA	-11.13	1.33	1.46
9	T	423	LYS	CA-C	-11.09	1.47	1.53
7	O	666	SER	CA-C	-10.88	1.38	1.52
7	M	666	SER	CA-C	-10.83	1.38	1.52
4	D	644	TRP	NE1-CE2	-10.80	1.25	1.37
4	J	644	TRP	NE1-CE2	-10.79	1.25	1.37
2	0	286	GLY	N-CA	-10.57	1.34	1.45
2	Y	286	GLY	N-CA	-10.56	1.34	1.45
7	M	703	TYR	CA-C	-10.18	1.39	1.52
7	O	703	TYR	CA-C	-10.17	1.40	1.52
8	P	401	ALA	CA-C	-10.17	1.40	1.52
8	N	401	ALA	CA-C	-10.07	1.40	1.52
2	0	456	ASN	CA-C	-10.01	1.40	1.52
9	S	727	TYR	C-N	10.00	1.47	1.33
2	Y	456	ASN	CA-C	-9.99	1.40	1.52
9	Q	727	TYR	C-N	9.93	1.47	1.33
3	Z	731	PHE	N-CA	-9.88	1.34	1.46
3	1	731	PHE	N-CA	-9.84	1.34	1.46
10	U	258	TYR	N-CA	-9.83	1.37	1.45
10	W	258	TYR	N-CA	-9.83	1.37	1.45
9	S	518	ILE	CA-C	-9.78	1.40	1.52
9	Q	518	ILE	CA-C	-9.75	1.40	1.52
9	R	215	TYR	CA-C	-9.74	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	T	215	TYR	CA-C	-9.73	1.40	1.52
2	0	221	PRO	C-N	9.69	1.47	1.33
2	Y	221	PRO	C-N	9.68	1.47	1.33
7	M	10	THR	N-CA	-9.60	1.34	1.46
3	1	1213	LEU	CA-C	9.55	1.65	1.52
8	P	38	ALA	C-N	9.55	1.46	1.33
7	O	10	THR	N-CA	-9.55	1.34	1.46
8	N	966	GLY	CA-C	-9.51	1.41	1.52
8	N	38	ALA	C-N	9.51	1.46	1.33
3	Z	855	PRO	N-CA	-9.49	1.35	1.47
3	1	855	PRO	N-CA	-9.44	1.35	1.47
8	P	966	GLY	CA-C	-9.39	1.41	1.52
8	N	236	THR	C-N	9.39	1.45	1.33
5	H	290	GLU	N-CA	-9.35	1.35	1.46
8	P	236	THR	C-N	9.35	1.45	1.33
3	Z	431	ARG	CZ-NH2	9.33	1.45	1.33
3	Z	541	SER	N-CA	-9.30	1.35	1.46
6	I	302	ASP	CA-CB	9.29	1.67	1.53
3	1	431	ARG	CZ-NH2	9.27	1.45	1.33
3	1	541	SER	N-CA	-9.26	1.35	1.46
8	P	1160	ILE	CA-CB	-9.26	1.47	1.53
7	O	1434	SER	CA-C	-9.24	1.40	1.52
3	Z	1336	VAL	C-N	9.23	1.46	1.33
6	C	302	ASP	CA-CB	9.21	1.66	1.53
7	M	1434	SER	CA-C	-9.21	1.40	1.52
3	1	1336	VAL	C-N	9.21	1.46	1.33
7	O	1529	ALA	CA-C	-9.19	1.40	1.52
5	B	290	GLU	N-CA	-9.19	1.35	1.46
7	M	1529	ALA	CA-C	-9.14	1.40	1.52
9	S	325	LEU	CA-C	-9.09	1.42	1.52
3	Z	1291	LYS	N-CA	-9.06	1.35	1.46
3	1	1291	LYS	N-CA	-9.05	1.35	1.46
8	N	1160	ILE	CA-CB	-9.05	1.47	1.53
3	1	234	THR	N-CA	9.02	1.57	1.46
3	Z	234	THR	N-CA	9.01	1.57	1.46
7	O	125	HIS	CA-C	-8.99	1.43	1.53
7	M	125	HIS	CA-C	-8.95	1.43	1.53
9	Q	325	LEU	CA-C	-8.95	1.42	1.52
8	P	983	ASN	CA-CB	8.93	1.64	1.53
8	N	983	ASN	CA-CB	8.91	1.64	1.53
9	Q	533	ARG	CD-NE	8.90	1.58	1.46
7	O	1250	LYS	CA-C	-8.87	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	M	1250	LYS	CA-C	-8.84	1.41	1.52
9	S	533	ARG	CD-NE	8.82	1.58	1.46
8	P	1453	ILE	CA-C	-8.81	1.42	1.52
7	M	661	VAL	CA-C	-8.80	1.43	1.52
3	1	1367	LYS	CA-C	-8.80	1.41	1.52
7	O	661	VAL	CA-C	-8.80	1.43	1.52
7	O	1218	ASN	C-N	8.78	1.43	1.33
3	1	767	ASN	CA-C	-8.78	1.41	1.52
8	N	551	ASN	N-CA	-8.77	1.35	1.46
8	P	685	TYR	CA-CB	8.77	1.66	1.53
8	N	1453	ILE	CA-C	-8.76	1.42	1.52
8	P	551	ASN	N-CA	-8.76	1.35	1.46
8	N	1186	GLU	CA-C	-8.76	1.41	1.52
8	P	1186	GLU	CA-C	-8.76	1.41	1.52
3	Z	164	GLY	CA-C	-8.76	1.41	1.51
3	1	164	GLY	CA-C	-8.74	1.41	1.51
7	M	1218	ASN	C-N	8.73	1.43	1.33
3	Z	767	ASN	CA-C	-8.73	1.41	1.52
7	M	64	PHE	CA-C	-8.71	1.41	1.52
7	O	64	PHE	CA-C	-8.70	1.41	1.52
9	T	425	ILE	CA-C	-8.69	1.45	1.53
9	S	614	ARG	CD-NE	8.69	1.58	1.46
8	N	685	TYR	CA-CB	8.68	1.66	1.53
3	Z	1367	LYS	CA-C	-8.68	1.41	1.52
3	1	269	THR	CA-C	-8.68	1.46	1.52
9	R	425	ILE	CA-C	-8.66	1.45	1.53
8	P	893	TYR	CA-C	-8.65	1.42	1.52
7	M	778	LEU	CA-CB	8.64	1.65	1.53
7	O	778	LEU	CA-CB	8.64	1.65	1.53
3	Z	949	ARG	CA-C	-8.63	1.41	1.52
7	M	517	CYS	CA-C	-8.62	1.42	1.52
8	N	893	TYR	CA-C	-8.62	1.42	1.52
9	Q	833	ILE	CA-C	-8.62	1.41	1.52
9	S	241	ILE	CA-C	-8.62	1.42	1.52
9	T	230	GLY	N-CA	8.62	1.52	1.44
3	1	949	ARG	CA-C	-8.62	1.41	1.52
9	Q	572	CYS	CA-C	-8.61	1.41	1.52
5	B	390	HIS	ND1-CE1	8.60	1.41	1.32
9	Q	241	ILE	CA-C	-8.59	1.42	1.52
8	P	208	ILE	CA-CB	-8.59	1.43	1.54
7	O	517	CYS	CA-C	-8.57	1.42	1.52
3	1	241	THR	C-N	8.57	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	269	THR	CA-C	-8.55	1.47	1.52
5	H	390	HIS	ND1-CE1	8.54	1.41	1.32
10	W	269	HIS	ND1-CE1	8.53	1.41	1.32
9	Q	614	ARG	CD-NE	8.52	1.58	1.46
9	S	833	ILE	CA-C	-8.51	1.42	1.52
10	U	269	HIS	ND1-CE1	8.51	1.41	1.32
7	M	107	PHE	CA-C	-8.50	1.41	1.52
7	O	107	PHE	CA-C	-8.50	1.41	1.52
8	N	208	ILE	CA-CB	-8.49	1.43	1.54
7	O	591	ASP	CA-C	-8.49	1.43	1.52
2	Y	832	VAL	CA-C	-8.49	1.43	1.52
2	0	832	VAL	CA-C	-8.47	1.43	1.52
3	1	246	ILE	CA-C	-8.47	1.41	1.52
9	T	699	ASN	CA-CB	8.47	1.63	1.52
3	Z	241	THR	C-N	8.46	1.45	1.33
9	R	699	ASN	CA-CB	8.46	1.63	1.52
7	M	591	ASP	CA-C	-8.45	1.43	1.52
9	R	230	GLY	N-CA	8.45	1.52	1.44
3	Z	1071	TYR	CA-CB	8.44	1.66	1.53
7	O	302	PHE	N-CA	-8.44	1.36	1.46
3	1	1138	ASN	CA-C	-8.44	1.42	1.52
5	B	294	LYS	CA-C	-8.44	1.49	1.53
7	M	302	PHE	N-CA	-8.43	1.36	1.46
3	1	1071	TYR	CA-CB	8.43	1.66	1.53
7	M	1279	CYS	CA-C	-8.43	1.41	1.52
9	S	572	CYS	CA-C	-8.43	1.42	1.52
3	Z	145	ASN	CA-C	-8.42	1.42	1.52
3	1	605	THR	CA-C	-8.40	1.41	1.53
3	Z	246	ILE	CA-C	-8.39	1.41	1.52
8	P	1367	LEU	CA-C	-8.38	1.42	1.52
3	Z	1138	ASN	CA-C	-8.37	1.42	1.52
7	O	1168	ILE	CA-CB	8.34	1.65	1.54
9	Q	710	ASN	CA-C	-8.34	1.42	1.52
3	1	145	ASN	CA-C	-8.34	1.42	1.52
7	O	420	THR	N-CA	-8.34	1.35	1.46
7	O	1279	CYS	CA-C	-8.33	1.42	1.52
3	Z	605	THR	CA-C	-8.33	1.41	1.53
7	O	1419	ASP	CA-C	-8.32	1.42	1.52
5	E	400	LYS	C-N	8.30	1.45	1.33
7	M	1168	ILE	CA-CB	8.30	1.64	1.54
5	K	400	LYS	C-N	8.30	1.45	1.33
9	S	710	ASN	CA-C	-8.29	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	N	1121	THR	C-N	8.29	1.44	1.33
2	0	458	GLU	CA-CB	8.28	1.66	1.53
8	P	1121	THR	C-N	8.29	1.44	1.33
7	M	1419	ASP	CA-C	-8.28	1.42	1.52
8	N	526	GLY	CA-C	-8.28	1.42	1.51
7	M	1153	TYR	CA-C	-8.27	1.42	1.52
7	O	1153	TYR	CA-C	-8.27	1.42	1.52
2	Y	1229	LEU	CA-C	-8.27	1.42	1.52
3	1	203	LYS	CA-C	-8.25	1.42	1.52
3	Z	203	LYS	CA-C	-8.25	1.42	1.52
8	N	1367	LEU	CA-C	-8.25	1.42	1.52
2	0	1229	LEU	CA-C	-8.25	1.42	1.52
8	P	1233	PHE	C-O	-8.25	1.14	1.24
2	0	438	ALA	CA-C	-8.23	1.42	1.52
2	Y	458	GLU	CA-CB	8.23	1.66	1.53
7	M	942	LEU	N-CA	-8.22	1.36	1.46
8	N	1182	ASN	CA-CB	8.21	1.63	1.53
7	O	942	LEU	N-CA	-8.21	1.36	1.46
8	P	1182	ASN	CA-CB	8.20	1.63	1.53
7	M	420	THR	N-CA	-8.19	1.35	1.46
2	Y	438	ALA	CA-C	-8.16	1.42	1.52
4	G	797	LEU	CA-CB	8.14	1.66	1.53
7	O	1262	PHE	C-N	8.12	1.45	1.33
5	H	294	LYS	CA-C	-8.11	1.49	1.53
8	N	1233	PHE	C-O	-8.10	1.14	1.24
4	A	797	LEU	CA-CB	8.09	1.66	1.53
7	M	1262	PHE	C-N	8.09	1.45	1.33
8	P	526	GLY	CA-C	-8.07	1.43	1.51
7	M	461	LEU	CA-C	8.06	1.63	1.52
3	Z	180	LEU	CA-C	-8.05	1.43	1.52
10	W	357	LYS	CA-C	8.04	1.58	1.52
3	1	180	LEU	CA-C	-8.04	1.43	1.52
7	O	461	LEU	CA-C	8.03	1.63	1.52
8	P	851	SER	CA-C	-8.03	1.42	1.52
2	0	427	ALA	N-CA	-8.02	1.39	1.45
7	M	1449	GLU	CA-CB	8.01	1.64	1.53
3	1	1160	ILE	N-CA	-8.00	1.37	1.46
8	P	533	GLN	CA-C	-8.00	1.42	1.53
10	U	357	LYS	CA-C	7.99	1.58	1.52
2	Y	1063	SER	C-N	7.99	1.43	1.33
3	1	927	HIS	ND1-CE1	7.99	1.40	1.32
8	N	851	SER	CA-C	-7.99	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	961	SER	N-CA	-7.98	1.36	1.46
2	Y	89	HIS	CA-CB	7.96	1.66	1.53
9	Q	706	ILE	CA-CB	-7.96	1.44	1.54
5	E	342	LYS	C-N	-7.96	1.26	1.33
8	N	810	MET	N-CA	-7.96	1.36	1.46
2	Y	675	ALA	CA-C	-7.95	1.42	1.52
7	M	947	LYS	N-CA	-7.95	1.36	1.46
7	M	642	PHE	CA-CB	7.94	1.66	1.53
8	N	533	GLN	CA-C	-7.93	1.42	1.53
7	O	1449	GLU	CA-CB	7.93	1.64	1.53
3	Z	1160	ILE	N-CA	-7.92	1.37	1.46
2	0	89	HIS	CA-CB	7.92	1.66	1.53
8	P	615	LEU	C-N	7.92	1.43	1.33
6	C	447	PHE	N-CA	-7.92	1.36	1.46
2	0	91	ARG	CA-CB	7.92	1.63	1.53
2	Y	427	ALA	N-CA	-7.91	1.39	1.45
7	O	947	LYS	N-CA	-7.91	1.36	1.46
3	1	374	VAL	CA-CB	7.91	1.63	1.54
7	O	642	PHE	CA-CB	7.91	1.66	1.53
7	M	288	TRP	NE1-CE2	-7.90	1.28	1.37
2	0	675	ALA	CA-C	-7.90	1.42	1.52
7	O	1366	ARG	CA-CB	7.89	1.65	1.53
3	1	153	GLN	C-N	7.89	1.43	1.33
2	0	1063	SER	C-N	7.88	1.43	1.33
7	O	692	TYR	CA-C	-7.88	1.42	1.52
8	P	810	MET	N-CA	-7.87	1.36	1.46
2	Y	91	ARG	CA-CB	7.87	1.62	1.53
7	M	1366	ARG	CA-CB	7.86	1.65	1.53
7	O	288	TRP	NE1-CE2	-7.86	1.28	1.37
8	P	1617	ILE	N-CA	-7.86	1.39	1.46
3	Z	1164	PHE	CA-CB	7.86	1.65	1.53
3	1	148	ASP	N-CA	-7.86	1.36	1.46
9	S	706	ILE	CA-CB	-7.86	1.44	1.54
9	S	480	GLN	C-N	7.85	1.43	1.33
3	Z	927	HIS	ND1-CE1	7.85	1.40	1.32
8	N	1617	ILE	N-CA	-7.85	1.39	1.46
9	Q	480	GLN	C-N	7.85	1.43	1.33
3	1	749	ARG	CA-CB	7.85	1.64	1.53
3	Z	148	ASP	N-CA	-7.85	1.36	1.46
7	M	692	TYR	CA-C	-7.84	1.42	1.52
9	Q	741	LEU	CA-C	-7.84	1.41	1.52
3	Z	153	GLN	C-N	7.84	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	P	613	GLU	CA-C	-7.84	1.42	1.52
8	N	615	LEU	C-N	7.84	1.43	1.33
9	S	741	LEU	CA-C	-7.83	1.41	1.52
2	Y	964	ARG	NE-CZ	7.83	1.41	1.33
3	1	1164	PHE	CA-CB	7.83	1.65	1.53
2	Y	92	VAL	CA-CB	-7.83	1.50	1.55
7	M	1263	SER	N-CA	-7.83	1.36	1.46
8	P	1416	GLY	C-N	7.82	1.43	1.33
5	K	342	LYS	C-N	-7.82	1.26	1.33
3	Z	749	ARG	CA-CB	7.82	1.64	1.53
9	R	575	ALA	N-CA	-7.81	1.36	1.46
7	O	1263	SER	N-CA	-7.80	1.36	1.46
8	N	1416	GLY	C-N	7.80	1.43	1.33
6	I	447	PHE	N-CA	-7.80	1.36	1.46
2	Y	95	MET	N-CA	-7.79	1.37	1.46
2	0	95	MET	N-CA	-7.79	1.37	1.46
2	0	961	SER	N-CA	-7.79	1.37	1.46
2	0	964	ARG	NE-CZ	7.78	1.41	1.33
5	H	450	PRO	N-CA	-7.78	1.37	1.47
10	W	312	GLY	CA-C	-7.78	1.41	1.51
4	D	793	LEU	N-CA	-7.77	1.37	1.46
10	U	312	GLY	CA-C	-7.77	1.41	1.51
3	Z	1156	LEU	CA-C	-7.77	1.42	1.52
8	N	613	GLU	CA-C	-7.77	1.42	1.52
3	Z	374	VAL	CA-CB	7.77	1.63	1.54
9	Q	693	ALA	CA-CB	7.76	1.65	1.53
7	O	78	SER	CA-C	-7.75	1.42	1.52
7	O	644	LYS	CA-C	-7.75	1.42	1.52
7	O	1116	VAL	CA-C	-7.75	1.43	1.52
9	S	565	GLY	CA-C	-7.75	1.40	1.51
7	M	431	PHE	C-N	7.74	1.43	1.33
7	M	644	LYS	CA-C	-7.73	1.42	1.52
9	T	575	ALA	N-CA	-7.73	1.37	1.46
7	O	431	PHE	C-N	7.73	1.43	1.33
2	0	92	VAL	CA-CB	-7.72	1.50	1.55
8	P	32	VAL	C-N	7.72	1.44	1.33
8	P	729	HIS	ND1-CE1	7.72	1.40	1.32
5	E	370	ALA	CA-C	-7.71	1.42	1.52
8	N	32	VAL	C-N	7.71	1.44	1.33
9	Q	371	PHE	C-N	7.71	1.44	1.33
3	Z	351	ARG	NE-CZ	7.70	1.41	1.33
7	M	782	LYS	CA-CB	7.70	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	Q	565	GLY	CA-C	-7.70	1.41	1.51
3	1	1156	LEU	CA-C	-7.70	1.42	1.52
9	S	693	ALA	CA-CB	7.70	1.65	1.53
8	P	1375	ILE	N-CA	-7.69	1.37	1.46
5	E	359	ASN	C-N	7.69	1.44	1.33
3	1	1213	LEU	N-CA	-7.69	1.37	1.46
7	O	782	LYS	CA-CB	7.68	1.65	1.53
5	B	450	PRO	N-CA	-7.68	1.37	1.47
7	M	78	SER	CA-C	-7.68	1.42	1.52
6	F	287	GLN	C-N	7.67	1.42	1.33
9	S	371	PHE	C-N	7.67	1.44	1.33
9	Q	294	MET	CA-C	-7.67	1.43	1.53
7	M	1116	VAL	CA-C	-7.66	1.44	1.52
9	S	660	LEU	N-CA	-7.66	1.37	1.46
2	Y	830	SER	CA-C	-7.66	1.42	1.52
2	Y	1306	GLU	CA-C	-7.65	1.42	1.52
7	O	1036	PRO	N-CA	-7.65	1.37	1.47
5	K	474	SER	C-N	7.64	1.44	1.33
2	Y	788	HIS	C-N	7.64	1.43	1.33
5	K	359	ASN	C-N	7.64	1.44	1.33
8	N	588	HIS	ND1-CE1	7.64	1.40	1.32
2	Y	139	LYS	CA-C	-7.63	1.43	1.52
7	M	1065	LYS	N-CA	-7.62	1.37	1.46
4	G	667	GLN	CA-CB	7.62	1.65	1.53
2	0	1334	GLU	CA-C	7.62	1.62	1.52
3	1	599	LEU	CA-CB	7.62	1.66	1.53
3	Z	599	LEU	CA-CB	7.61	1.66	1.53
2	0	830	SER	CA-C	-7.61	1.42	1.52
3	1	351	ARG	NE-CZ	7.61	1.41	1.33
5	E	474	SER	C-N	7.61	1.44	1.33
4	D	805	ARG	NE-CZ	7.60	1.41	1.33
5	B	329	HIS	ND1-CE1	7.60	1.40	1.32
6	L	287	GLN	C-N	7.60	1.42	1.33
8	N	1375	ILE	N-CA	-7.60	1.37	1.46
7	M	1036	PRO	N-CA	-7.59	1.37	1.47
2	0	1306	GLU	CA-C	-7.59	1.43	1.52
5	H	329	HIS	ND1-CE1	7.59	1.40	1.32
8	P	588	HIS	ND1-CE1	7.58	1.40	1.32
2	0	174	GLY	C-N	7.58	1.43	1.33
8	N	950	ARG	NE-CZ	7.58	1.41	1.33
8	P	221	VAL	CA-CB	-7.57	1.45	1.54
4	A	667	GLN	CA-CB	7.56	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	174	GLY	C-N	7.56	1.43	1.33
9	Q	333	ILE	N-CA	-7.56	1.37	1.46
7	O	1065	LYS	N-CA	-7.56	1.37	1.46
4	J	805	ARG	NE-CZ	7.56	1.41	1.33
9	S	333	ILE	N-CA	-7.56	1.37	1.46
4	J	793	LEU	N-CA	-7.56	1.37	1.46
9	Q	660	LEU	N-CA	-7.55	1.37	1.46
3	1	1296	PHE	CA-CB	7.55	1.64	1.53
9	R	96	LEU	C-N	7.55	1.43	1.33
2	Y	230	HIS	CA-C	-7.55	1.43	1.52
9	T	96	LEU	C-N	7.54	1.43	1.33
2	0	139	LYS	CA-C	-7.54	1.43	1.52
9	S	79	SER	N-CA	-7.54	1.36	1.46
9	S	623	ILE	N-CA	-7.52	1.36	1.46
9	S	294	MET	CA-C	-7.51	1.43	1.53
3	Z	1296	PHE	CA-CB	7.50	1.64	1.53
7	M	1159	GLN	C-N	7.50	1.43	1.33
3	Z	158	GLU	CA-CB	7.49	1.63	1.53
2	0	1460	ARG	CD-NE	7.49	1.56	1.46
8	P	950	ARG	NE-CZ	7.49	1.41	1.33
3	1	158	GLU	C-N	7.48	1.43	1.33
9	T	813	CYS	N-CA	-7.48	1.37	1.46
3	1	104	ARG	CD-NE	7.48	1.56	1.46
9	Q	79	SER	N-CA	-7.47	1.36	1.46
3	Z	104	ARG	CD-NE	7.47	1.56	1.46
2	0	788	HIS	C-N	7.47	1.43	1.33
3	Z	158	GLU	C-N	7.46	1.43	1.33
3	1	158	GLU	CA-CB	7.46	1.63	1.53
7	O	1159	GLN	C-N	7.46	1.43	1.33
8	N	729	HIS	ND1-CE1	7.46	1.40	1.32
9	R	425	ILE	CA-CB	-7.46	1.45	1.54
2	Y	1460	ARG	CD-NE	7.46	1.56	1.46
5	B	339	MET	CA-CB	7.46	1.65	1.53
5	H	339	MET	CA-CB	7.46	1.65	1.53
8	N	327	PHE	C-N	7.45	1.43	1.33
2	0	230	HIS	CA-C	-7.45	1.43	1.52
7	O	1460	LEU	CA-CB	7.45	1.65	1.53
6	F	459	VAL	N-CA	-7.45	1.37	1.46
3	1	190	GLU	CA-C	-7.45	1.43	1.52
3	1	1110	GLU	CA-C	-7.45	1.43	1.52
5	H	300	ASP	N-CA	7.44	1.53	1.45
3	1	550	ASN	C-N	7.44	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	190	GLU	CA-C	-7.44	1.43	1.52
6	F	404	ASP	N-CA	-7.44	1.36	1.46
3	Z	1110	GLU	CA-C	-7.44	1.43	1.52
10	U	256	PHE	CA-C	-7.44	1.43	1.52
9	Q	623	ILE	N-CA	-7.43	1.37	1.46
3	1	418	ASN	CA-C	-7.43	1.43	1.52
9	S	404	GLY	CA-C	-7.43	1.41	1.51
2	Y	1334	GLU	CA-C	7.43	1.62	1.52
4	G	654	HIS	ND1-CE1	7.43	1.40	1.32
8	P	816	ALA	N-CA	-7.43	1.38	1.46
3	Z	902	LEU	C-N	7.42	1.43	1.33
2	0	1114	LYS	CA-CB	7.42	1.64	1.53
8	P	1490	ARG	NE-CZ	7.42	1.41	1.33
9	S	573	HIS	CB-CG	7.42	1.60	1.50
5	B	411	ARG	C-N	7.42	1.43	1.33
8	N	770	HIS	ND1-CE1	7.42	1.40	1.32
8	N	1251	TYR	CA-CB	7.42	1.65	1.53
3	Z	418	ASN	CA-C	-7.41	1.43	1.52
4	J	677	SER	CA-CB	7.41	1.65	1.53
9	T	425	ILE	CA-CB	-7.41	1.45	1.54
9	Q	404	GLY	CA-C	-7.41	1.41	1.51
3	1	902	LEU	C-N	7.41	1.43	1.33
2	Y	1114	LYS	CA-CB	7.41	1.64	1.53
9	Q	813	CYS	CA-CB	7.41	1.64	1.53
8	P	905	SER	CA-CB	7.41	1.64	1.53
7	O	6	ILE	CA-CB	-7.41	1.50	1.54
10	W	256	PHE	CA-C	-7.41	1.43	1.52
2	0	873	SER	CA-C	-7.41	1.42	1.52
5	E	342	LYS	CA-C	-7.40	1.44	1.53
6	I	386	ASP	C-N	7.40	1.44	1.34
5	K	342	LYS	CA-C	-7.40	1.44	1.53
4	D	747	THR	N-CA	-7.40	1.37	1.46
6	L	404	ASP	N-CA	-7.40	1.36	1.46
3	Z	550	ASN	C-N	7.39	1.44	1.33
7	M	466	ASP	N-CA	-7.39	1.36	1.46
3	Z	832	ALA	CA-C	-7.39	1.43	1.52
4	D	677	SER	CA-CB	7.39	1.65	1.53
9	Q	573	HIS	CB-CG	7.39	1.60	1.50
6	C	386	ASP	C-N	7.38	1.44	1.34
7	M	1460	LEU	CA-CB	7.38	1.64	1.53
9	S	813	CYS	CA-CB	7.38	1.64	1.53
4	G	810	ASN	CA-C	7.38	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	P	886	ASP	C-N	7.38	1.43	1.33
8	P	1251	TYR	CA-CB	7.38	1.65	1.53
5	H	411	ARG	C-N	7.37	1.43	1.33
7	M	69	GLU	CA-CB	7.37	1.65	1.53
4	J	747	THR	N-CA	-7.37	1.37	1.46
9	R	239	ILE	CA-CB	-7.36	1.45	1.54
5	H	300	ASP	C-N	7.36	1.41	1.34
9	R	813	CYS	N-CA	-7.36	1.37	1.46
3	1	447	LYS	CA-C	-7.36	1.43	1.52
8	N	551	ASN	CA-CB	7.35	1.63	1.53
6	L	459	VAL	N-CA	-7.35	1.37	1.46
9	S	546	ARG	CD-NE	7.35	1.56	1.46
9	T	98	PRO	CA-CB	-7.35	1.42	1.53
3	1	450	SER	N-CA	-7.34	1.36	1.46
7	O	466	ASP	N-CA	-7.34	1.37	1.46
2	Y	873	SER	CA-C	-7.34	1.43	1.52
9	R	408	ARG	C-N	7.34	1.43	1.33
9	T	408	ARG	C-N	7.34	1.43	1.33
4	A	810	ASN	CA-C	7.34	1.62	1.52
9	Q	546	ARG	CD-NE	7.34	1.56	1.46
8	N	816	ALA	N-CA	-7.34	1.38	1.46
3	Z	450	SER	N-CA	-7.33	1.37	1.46
7	O	295	ARG	NE-CZ	7.33	1.41	1.33
7	M	1602	VAL	CA-CB	-7.32	1.50	1.54
3	1	832	ALA	CA-C	-7.32	1.43	1.52
7	M	450	LEU	N-CA	-7.32	1.37	1.46
8	N	1198	ASN	C-O	-7.31	1.15	1.24
7	O	69	GLU	CA-CB	7.31	1.65	1.53
7	M	651	GLY	CA-C	7.31	1.60	1.52
3	Z	1319	LEU	N-CA	7.31	1.55	1.46
3	Z	447	LYS	CA-C	-7.31	1.43	1.52
9	R	98	PRO	CA-CB	-7.31	1.43	1.53
8	P	327	PHE	C-N	7.31	1.43	1.33
8	N	738	ILE	CA-CB	-7.30	1.46	1.54
8	N	886	ASP	C-N	7.30	1.43	1.33
7	O	1558	ASP	C-N	7.30	1.43	1.33
5	B	300	ASP	N-CA	7.30	1.53	1.45
8	N	1490	ARG	NE-CZ	7.30	1.41	1.33
7	O	1422	GLY	CA-C	-7.30	1.44	1.52
8	N	1015	LYS	CA-C	-7.30	1.43	1.52
7	O	1269	GLU	CA-C	-7.30	1.43	1.52
8	P	1015	LYS	CA-C	-7.30	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	P	737	ASP	CA-C	-7.29	1.43	1.52
8	P	1198	ASN	C-O	-7.29	1.15	1.24
4	A	654	HIS	ND1-CE1	7.29	1.39	1.32
7	O	1079	ALA	CA-CB	7.29	1.64	1.53
9	R	462	PHE	C-N	7.28	1.43	1.33
8	P	1038	LYS	C-N	7.28	1.43	1.33
2	Y	683	LEU	CA-CB	7.28	1.64	1.53
9	R	249	ARG	CA-C	-7.28	1.43	1.52
8	N	737	ASP	CA-C	-7.27	1.43	1.52
2	Y	137	ARG	C-N	7.27	1.42	1.33
5	B	300	ASP	C-N	7.27	1.41	1.34
8	N	905	SER	CA-CB	7.27	1.64	1.53
7	O	85	GLU	N-CA	-7.27	1.37	1.46
9	T	239	ILE	CA-CB	-7.27	1.45	1.54
7	O	1602	VAL	CA-CB	-7.27	1.50	1.54
7	M	1422	GLY	CA-C	-7.26	1.44	1.52
8	P	738	ILE	CA-CB	-7.26	1.46	1.54
7	M	1079	ALA	CA-CB	7.25	1.64	1.53
9	R	423	LYS	CA-CB	7.25	1.64	1.53
7	O	651	GLY	CA-C	7.25	1.59	1.52
3	1	283	VAL	CA-C	-7.25	1.43	1.52
8	P	551	ASN	CA-CB	7.24	1.63	1.53
3	Z	998	TYR	CA-CB	7.23	1.64	1.53
8	N	22	MET	N-CA	-7.23	1.37	1.46
7	M	1558	ASP	C-N	7.23	1.43	1.33
3	1	1117	ALA	N-CA	7.23	1.55	1.46
4	A	679	LEU	N-CA	-7.23	1.36	1.46
3	Z	900	ASP	CA-C	-7.22	1.43	1.52
3	1	872	ASN	C-N	7.22	1.43	1.33
8	N	1038	LYS	C-N	7.22	1.43	1.33
7	M	6	ILE	CA-CB	-7.22	1.50	1.54
9	T	423	LYS	CA-CB	7.22	1.64	1.53
7	M	85	GLU	N-CA	-7.22	1.37	1.46
7	M	907	HIS	ND1-CE1	7.22	1.39	1.32
7	M	1269	GLU	CA-C	-7.22	1.43	1.52
9	T	462	PHE	C-N	7.22	1.43	1.33
7	O	450	LEU	N-CA	-7.21	1.37	1.46
8	P	770	HIS	ND1-CE1	7.21	1.39	1.32
2	0	137	ARG	C-N	7.21	1.42	1.33
3	1	713	ALA	C-N	7.21	1.43	1.33
7	M	869	VAL	N-CA	-7.21	1.37	1.46
9	Q	439	HIS	ND1-CE1	7.21	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	R	446	LYS	N-CA	-7.21	1.37	1.46
5	K	412	ILE	N-CA	-7.21	1.38	1.46
6	C	464	THR	N-CA	-7.20	1.36	1.46
4	G	679	LEU	N-CA	-7.20	1.36	1.46
9	T	256	SER	N-CA	7.20	1.55	1.46
3	1	1319	LEU	N-CA	7.20	1.54	1.46
6	L	315	LEU	CA-C	-7.20	1.42	1.52
8	P	298	VAL	CA-C	-7.20	1.43	1.52
8	P	375	TYR	N-CA	-7.20	1.37	1.46
3	1	277	ALA	C-N	7.19	1.43	1.33
9	T	249	ARG	CA-C	-7.19	1.43	1.52
3	1	117	TYR	N-CA	-7.19	1.39	1.46
3	Z	872	ASN	C-N	7.19	1.43	1.33
7	O	907	HIS	ND1-CE1	7.18	1.39	1.32
2	0	1060	TYR	C-O	-7.18	1.17	1.24
3	Z	277	ALA	C-N	7.17	1.43	1.33
2	0	1014	LYS	C-N	7.17	1.43	1.33
2	0	683	LEU	CA-CB	7.17	1.64	1.53
4	J	794	ILE	C-N	7.17	1.43	1.33
8	P	919	LEU	C-N	7.17	1.43	1.33
9	Q	481	THR	N-CA	-7.16	1.37	1.46
8	P	22	MET	N-CA	-7.16	1.37	1.46
2	0	1143	GLN	CA-CB	7.16	1.64	1.53
2	Y	1060	TYR	C-O	-7.16	1.17	1.24
3	Z	1117	ALA	N-CA	7.15	1.55	1.46
9	Q	377	SER	CA-C	-7.15	1.43	1.52
7	O	869	VAL	N-CA	-7.15	1.37	1.46
3	1	900	ASP	CA-C	-7.15	1.43	1.52
7	M	579	ARG	NE-CZ	7.15	1.41	1.33
3	1	708	ARG	CA-C	7.15	1.61	1.52
2	Y	1391	PHE	C-O	-7.14	1.17	1.24
2	0	1391	PHE	C-O	-7.14	1.17	1.24
3	Z	283	VAL	CA-C	-7.14	1.44	1.52
8	N	1008	THR	C-N	7.14	1.43	1.33
9	Q	674	LEU	CA-C	7.14	1.62	1.52
2	Y	1014	LYS	C-N	7.14	1.43	1.33
6	I	292	HIS	N-CA	-7.14	1.36	1.46
5	E	412	ILE	N-CA	-7.13	1.38	1.46
7	M	295	ARG	NE-CZ	7.13	1.40	1.33
7	O	1297	GLU	N-CA	-7.13	1.37	1.46
7	M	1297	GLU	N-CA	-7.13	1.37	1.46
3	1	736	LYS	CA-C	-7.13	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	S	439	HIS	ND1-CE1	7.13	1.39	1.32
8	N	375	TYR	N-CA	-7.13	1.37	1.46
8	P	1008	THR	C-N	7.13	1.43	1.33
3	Z	713	ALA	C-N	7.12	1.43	1.33
3	Z	736	LYS	CA-C	-7.12	1.43	1.52
9	R	204	GLU	CA-C	-7.12	1.43	1.52
9	R	256	SER	N-CA	7.12	1.54	1.46
6	C	292	HIS	N-CA	-7.12	1.36	1.46
3	Z	1179	ASN	C-N	7.12	1.42	1.33
7	M	966	LEU	C-O	-7.12	1.15	1.24
6	I	464	THR	N-CA	-7.12	1.36	1.46
9	S	481	THR	N-CA	-7.11	1.38	1.46
3	Z	410	VAL	C-N	7.11	1.42	1.33
7	O	966	LEU	C-O	-7.11	1.15	1.24
3	1	555	VAL	CA-C	-7.11	1.44	1.52
6	F	310	ARG	C-N	7.10	1.43	1.34
6	L	310	ARG	C-N	7.10	1.43	1.34
3	Z	117	TYR	N-CA	-7.10	1.39	1.46
5	B	413	LEU	C-N	7.10	1.42	1.33
7	M	1664	ASN	C-N	7.10	1.43	1.33
3	Z	357	LEU	CA-C	-7.09	1.44	1.52
9	T	204	GLU	CA-C	-7.09	1.43	1.52
9	T	268	ILE	N-CA	-7.08	1.38	1.46
8	P	1268	SER	CA-CB	7.08	1.65	1.53
7	M	657	ILE	C-N	7.08	1.43	1.33
7	M	1647	ARG	CZ-NH1	7.08	1.42	1.32
3	1	998	TYR	CA-CB	7.08	1.64	1.53
9	S	609	PRO	C-N	7.07	1.44	1.33
4	D	794	ILE	C-N	7.07	1.42	1.33
7	M	1445	VAL	CA-CB	7.07	1.63	1.54
8	P	716	LYS	N-CA	-7.07	1.38	1.46
9	Q	609	PRO	C-N	7.07	1.44	1.33
8	P	47	ASN	CA-C	-7.07	1.43	1.52
2	Y	1143	GLN	CA-CB	7.06	1.64	1.53
9	Q	714	CYS	CA-CB	7.06	1.64	1.53
7	O	756	ILE	C-N	7.06	1.43	1.33
9	S	674	LEU	CA-C	7.06	1.62	1.52
7	M	825	ILE	CA-CB	-7.06	1.50	1.54
9	R	268	ILE	N-CA	-7.06	1.38	1.46
5	H	413	LEU	C-N	7.06	1.42	1.33
9	T	446	LYS	N-CA	-7.06	1.37	1.46
8	N	919	LEU	C-N	7.06	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	N	1640	ILE	CA-CB	-7.06	1.45	1.54
7	O	1647	ARG	CZ-NH1	7.05	1.42	1.32
4	G	807	LEU	CA-C	-7.05	1.43	1.52
7	O	657	ILE	C-N	7.05	1.43	1.33
7	O	1445	VAL	CA-CB	7.05	1.63	1.54
7	M	175	PHE	C-N	7.05	1.42	1.33
7	O	175	PHE	C-N	7.05	1.42	1.33
7	O	1664	ASN	C-N	7.05	1.43	1.33
8	N	47	ASN	CA-C	-7.04	1.43	1.52
8	N	298	VAL	CA-C	-7.04	1.43	1.52
3	Z	555	VAL	CA-C	-7.04	1.44	1.52
7	O	579	ARG	NE-CZ	7.04	1.40	1.33
9	Q	559	LEU	CA-CB	7.03	1.62	1.53
8	N	1268	SER	CA-CB	7.03	1.65	1.53
4	G	655	PHE	CA-CB	7.03	1.64	1.53
3	Z	708	ARG	CA-C	7.02	1.61	1.52
8	P	942	PRO	C-N	7.02	1.42	1.33
3	1	1050	SER	CA-C	7.02	1.61	1.52
3	1	1365	GLN	C-N	7.02	1.42	1.33
8	P	1282	ASN	CA-C	7.02	1.61	1.52
8	P	1381	ASN	C-N	7.02	1.43	1.33
6	F	315	LEU	CA-C	-7.02	1.43	1.52
9	R	321	LYS	CA-C	-7.02	1.43	1.52
2	Y	878	ILE	N-CA	-7.02	1.38	1.46
3	Z	129	VAL	CA-C	-7.02	1.43	1.52
8	N	237	SER	C-N	7.02	1.42	1.33
9	Q	48	GLU	CA-C	-7.01	1.43	1.52
7	M	618	SER	N-CA	-7.01	1.37	1.46
7	O	1324	ARG	CD-NE	7.01	1.56	1.46
9	S	377	SER	CA-C	-7.01	1.44	1.52
7	M	756	ILE	C-N	7.01	1.43	1.33
3	Z	115	ASP	CA-C	-7.00	1.43	1.52
3	1	115	ASP	CA-C	-7.00	1.43	1.52
3	1	727	ARG	NE-CZ	7.00	1.40	1.33
3	1	357	LEU	CA-C	-7.00	1.44	1.52
4	A	807	LEU	CA-C	-7.00	1.43	1.52
8	P	1640	ILE	CA-CB	-6.99	1.45	1.54
9	S	48	GLU	CA-C	-6.99	1.43	1.52
8	P	507	PRO	CA-C	-6.99	1.45	1.52
8	N	805	LEU	CA-CB	6.99	1.64	1.53
9	Q	456	ARG	CD-NE	6.99	1.56	1.46
2	0	762	ASP	CA-CB	6.99	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	O	1002	LEU	CA-C	-6.99	1.44	1.52
2	Y	1100	LYS	N-CA	6.99	1.54	1.46
9	Q	587	THR	CA-C	6.99	1.61	1.52
9	R	19	ASN	CA-C	-6.99	1.43	1.52
9	S	456	ARG	CD-NE	6.99	1.56	1.46
9	S	559	LEU	CA-CB	6.99	1.62	1.53
8	P	1087	TYR	CA-C	-6.98	1.44	1.52
4	A	655	PHE	CA-CB	6.98	1.64	1.53
7	M	1002	LEU	CA-C	-6.98	1.44	1.52
3	1	410	VAL	C-N	6.98	1.42	1.33
7	M	87	VAL	C-N	6.97	1.43	1.34
3	Z	1365	GLN	C-N	6.97	1.42	1.33
9	S	645	GLN	N-CA	-6.97	1.38	1.46
9	T	321	LYS	CA-C	-6.97	1.43	1.52
3	1	1179	ASN	C-N	6.97	1.42	1.33
8	P	805	LEU	CA-CB	6.97	1.64	1.53
3	1	129	VAL	CA-C	-6.97	1.43	1.52
3	1	1026	SER	CA-C	6.97	1.62	1.52
7	M	658	SER	CA-C	-6.96	1.43	1.52
7	M	1076	ALA	C-N	6.96	1.42	1.33
2	0	450	GLY	CA-C	-6.96	1.46	1.52
10	W	277	LEU	CA-CB	6.96	1.62	1.53
9	S	19	ASN	CA-C	-6.96	1.43	1.52
2	0	906	GLY	C-N	6.96	1.43	1.33
8	N	49	THR	N-CA	-6.95	1.37	1.46
7	M	1324	ARG	CD-NE	6.95	1.55	1.46
8	N	716	LYS	N-CA	-6.95	1.38	1.46
9	R	238	PHE	CA-C	-6.95	1.43	1.52
2	Y	273	ILE	CA-C	-6.95	1.44	1.52
2	Y	973	ARG	CD-NE	6.95	1.55	1.46
3	Z	1178	ARG	CD-NE	6.95	1.55	1.46
2	0	878	ILE	N-CA	-6.95	1.38	1.46
9	T	19	ASN	CA-C	-6.95	1.43	1.52
3	Z	1050	SER	CA-C	6.95	1.61	1.52
7	M	1053	ILE	CA-C	-6.95	1.44	1.52
3	1	1178	ARG	CD-NE	6.95	1.55	1.46
3	Z	727	ARG	NE-CZ	6.95	1.40	1.33
8	P	237	SER	C-N	6.94	1.42	1.33
7	M	788	LEU	CA-C	-6.93	1.43	1.52
7	O	658	SER	CA-C	-6.93	1.43	1.52
7	O	1053	ILE	CA-C	-6.93	1.44	1.52
8	N	942	PRO	C-N	6.93	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	S	734	GLU	CA-C	-6.93	1.43	1.52
2	Y	906	GLY	C-N	6.93	1.43	1.33
9	R	776	ILE	CA-C	6.93	1.61	1.52
3	Z	240	ARG	NE-CZ	6.92	1.40	1.33
7	M	537	PRO	N-CA	-6.92	1.38	1.47
7	O	537	PRO	N-CA	-6.92	1.38	1.47
8	N	1087	TYR	CA-C	-6.92	1.44	1.52
8	N	1240	PHE	C-N	6.92	1.42	1.33
8	N	507	PRO	CA-C	-6.92	1.45	1.52
2	Y	613	GLY	CA-C	-6.92	1.45	1.52
8	N	1282	ASN	CA-C	6.92	1.61	1.52
9	Q	248	THR	N-CA	6.92	1.54	1.46
2	0	613	GLY	CA-C	-6.92	1.45	1.52
9	T	129	LEU	CA-C	-6.92	1.44	1.52
10	U	277	LEU	CA-CB	6.91	1.62	1.53
8	P	1545	SER	N-CA	-6.91	1.38	1.46
7	O	87	VAL	C-N	6.91	1.43	1.34
2	Y	450	GLY	CA-C	-6.91	1.46	1.52
8	P	49	THR	N-CA	-6.91	1.37	1.46
9	S	655	THR	C-N	6.91	1.42	1.33
9	T	111	PHE	CA-C	-6.91	1.47	1.53
8	P	746	ALA	C-O	-6.90	1.16	1.24
9	T	776	ILE	CA-C	6.90	1.61	1.52
2	0	884	VAL	N-CA	-6.90	1.38	1.46
9	S	714	CYS	CA-CB	6.90	1.64	1.53
2	0	943	ASP	CA-CB	6.90	1.64	1.53
3	1	374	VAL	N-CA	-6.90	1.37	1.46
7	O	618	SER	N-CA	-6.89	1.38	1.46
7	O	1076	ALA	C-N	6.89	1.42	1.33
9	T	612	HIS	CB-CG	6.89	1.59	1.50
9	S	248	THR	N-CA	6.89	1.54	1.46
9	T	438	MET	N-CA	-6.89	1.38	1.46
9	S	587	THR	CA-C	6.88	1.61	1.52
8	N	890	LEU	C-N	6.88	1.40	1.34
7	O	1551	SER	CA-CB	6.88	1.64	1.53
2	0	1100	LYS	N-CA	6.88	1.54	1.46
9	T	238	PHE	CA-C	-6.88	1.43	1.52
3	Z	1332	SER	C-N	6.88	1.42	1.33
7	M	1108	ARG	CA-CB	6.88	1.64	1.53
7	O	788	LEU	CA-C	-6.88	1.43	1.52
7	O	639	LEU	C-N	6.87	1.42	1.33
8	P	886	ASP	CA-C	-6.87	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	1026	SER	CA-C	6.87	1.61	1.52
2	0	258	ASN	CA-CB	6.87	1.62	1.53
8	P	890	LEU	C-N	6.87	1.40	1.34
3	1	240	ARG	NE-CZ	6.86	1.40	1.33
2	Y	943	ASP	CA-CB	6.86	1.64	1.53
8	N	1381	ASN	C-N	6.86	1.43	1.33
8	N	356	HIS	ND1-CE1	6.86	1.39	1.32
7	O	1030	ASN	N-CA	-6.86	1.37	1.46
8	N	886	ASP	CA-C	-6.86	1.43	1.52
2	0	449	ASN	CA-C	-6.86	1.43	1.52
2	0	973	ARG	CD-NE	6.86	1.55	1.46
3	1	1332	SER	C-N	6.86	1.42	1.33
7	O	1108	ARG	CA-CB	6.85	1.64	1.53
9	Q	734	GLU	CA-C	-6.85	1.44	1.52
2	Y	771	TYR	CA-CB	6.85	1.64	1.53
2	Y	762	ASP	CA-CB	6.85	1.65	1.53
3	Z	1056	HIS	C-N	6.85	1.42	1.33
6	I	461	HIS	ND1-CE1	6.85	1.39	1.32
7	O	825	ILE	CA-CB	-6.85	1.50	1.54
8	P	1343	VAL	CA-C	-6.84	1.46	1.52
9	S	765	ASP	CA-C	-6.84	1.43	1.52
7	M	140	LEU	C-N	6.84	1.42	1.33
9	T	627	ALA	CA-C	6.84	1.61	1.52
2	Y	884	VAL	N-CA	-6.84	1.38	1.46
9	Q	645	GLN	N-CA	-6.84	1.38	1.46
9	Q	655	THR	C-N	6.84	1.42	1.33
7	M	639	LEU	C-N	6.84	1.42	1.33
2	0	190	LEU	N-CA	-6.84	1.37	1.46
7	O	190	TYR	CA-CB	6.84	1.64	1.53
2	0	1045	GLU	CA-CB	6.83	1.64	1.53
8	P	848	MET	C-N	6.83	1.42	1.33
8	N	1573	PRO	CA-C	-6.83	1.44	1.52
2	0	1263	GLN	C-N	6.83	1.43	1.33
2	Y	258	ASN	CA-CB	6.83	1.62	1.53
2	Y	449	ASN	CA-C	-6.83	1.44	1.52
9	R	612	HIS	CB-CG	6.83	1.59	1.50
8	N	1545	SER	N-CA	-6.83	1.38	1.46
9	R	438	MET	N-CA	-6.83	1.38	1.46
3	1	633	HIS	ND1-CE1	6.83	1.39	1.32
8	P	1431	ILE	CA-CB	-6.83	1.44	1.54
3	1	1326	SER	N-CA	-6.82	1.38	1.46
8	N	746	ALA	C-O	-6.82	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	M	1030	ASN	N-CA	-6.82	1.37	1.46
7	M	1551	SER	CA-CB	6.82	1.64	1.53
9	R	834	ASN	CA-CB	6.81	1.64	1.53
8	P	1642	ARG	CA-CB	6.81	1.64	1.53
9	R	199	ARG	NE-CZ	6.81	1.40	1.33
8	P	548	THR	CA-C	-6.81	1.44	1.52
8	N	848	MET	C-N	6.81	1.42	1.33
8	N	1343	VAL	CA-C	-6.81	1.46	1.52
8	N	1431	ILE	CA-CB	-6.81	1.44	1.54
2	0	273	ILE	CA-C	-6.81	1.44	1.52
3	Z	904	TYR	CA-C	-6.81	1.44	1.52
3	Z	633	HIS	ND1-CE1	6.80	1.39	1.32
3	Z	374	VAL	N-CA	-6.80	1.38	1.46
2	0	1081	CYS	C-N	6.80	1.43	1.33
9	Q	765	ASP	CA-C	-6.80	1.44	1.52
7	O	1174	LYS	C-N	6.80	1.42	1.33
8	P	1240	PHE	C-N	6.79	1.42	1.33
9	T	653	VAL	CA-CB	-6.79	1.46	1.54
2	Y	1391	PHE	CA-CB	6.79	1.62	1.53
7	O	152	HIS	ND1-CE1	6.79	1.39	1.32
3	Z	1075	LEU	CA-C	-6.79	1.44	1.52
9	T	834	ASN	CA-CB	6.79	1.64	1.53
9	R	627	ALA	CA-C	6.78	1.61	1.52
3	1	904	TYR	CA-C	-6.78	1.44	1.52
9	R	129	LEU	CA-C	-6.78	1.44	1.52
8	N	1597	ARG	CZ-NH1	6.78	1.42	1.32
3	1	1075	LEU	CA-C	-6.78	1.44	1.52
7	O	1647	ARG	CD-NE	6.78	1.55	1.46
8	N	905	SER	CA-C	-6.78	1.44	1.52
9	R	111	PHE	CA-C	-6.78	1.47	1.53
2	Y	1045	GLU	CA-CB	6.78	1.63	1.53
9	T	47	ASN	C-N	6.77	1.42	1.33
2	0	1391	PHE	CA-CB	6.77	1.62	1.53
10	U	253	ILE	C-N	6.77	1.42	1.33
2	0	771	TYR	CA-CB	6.77	1.63	1.53
7	M	1205	ASN	CA-CB	6.77	1.64	1.53
3	1	1056	HIS	C-N	6.77	1.42	1.33
3	1	506	ILE	N-CA	-6.77	1.39	1.46
8	P	1597	ARG	CZ-NH1	6.77	1.42	1.32
7	M	1174	LYS	C-N	6.76	1.42	1.33
8	P	1573	PRO	CA-C	-6.76	1.44	1.52
9	R	695	ILE	CA-CB	-6.76	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	T	695	ILE	CA-CB	-6.76	1.45	1.54
3	Z	1326	SER	N-CA	-6.76	1.38	1.46
8	N	548	THR	CA-C	-6.76	1.44	1.52
9	T	199	ARG	NE-CZ	6.76	1.40	1.33
7	M	31	ASP	N-CA	-6.76	1.38	1.46
9	R	47	ASN	C-N	6.76	1.42	1.33
9	R	815	ILE	C-N	6.76	1.42	1.33
8	N	1642	ARG	CA-CB	6.75	1.64	1.53
2	0	1339	LYS	CA-CB	6.75	1.64	1.53
5	H	515	ASN	C-N	6.75	1.42	1.33
9	Q	67	THR	CA-CB	6.75	1.63	1.53
10	W	253	ILE	C-N	6.75	1.42	1.33
9	T	324	ASN	C-N	6.75	1.43	1.33
8	P	905	SER	CA-C	-6.75	1.44	1.52
2	0	837	ASP	CA-CB	6.74	1.63	1.53
8	P	935	VAL	CA-CB	6.74	1.63	1.54
8	N	1299	ILE	C-N	6.74	1.42	1.34
2	Y	642	LEU	CA-CB	6.74	1.62	1.53
8	N	1152	GLU	CA-CB	6.74	1.63	1.53
2	Y	309	CYS	C-N	6.74	1.41	1.33
2	Y	1339	LYS	CA-CB	6.74	1.64	1.53
8	N	435	LEU	N-CA	-6.74	1.38	1.46
2	0	1384	ILE	C-N	6.74	1.43	1.33
8	P	1299	ILE	C-N	6.74	1.42	1.34
2	Y	837	ASP	CA-CB	6.73	1.63	1.53
6	C	461	HIS	ND1-CE1	6.73	1.39	1.32
2	Y	190	LEU	N-CA	-6.73	1.38	1.46
8	P	1152	GLU	CA-CB	6.73	1.63	1.53
9	T	748	SER	CA-CB	6.73	1.63	1.53
7	M	1218	ASN	CA-C	-6.73	1.44	1.52
8	P	356	HIS	ND1-CE1	6.72	1.39	1.32
9	S	217	ARG	CZ-NH1	6.72	1.42	1.32
9	S	744	LEU	C-N	6.72	1.41	1.32
9	T	815	ILE	C-N	6.72	1.42	1.33
3	Z	506	ILE	N-CA	-6.72	1.39	1.46
3	Z	1002	ILE	C-O	-6.72	1.16	1.24
3	Z	623	SER	C-N	6.72	1.42	1.33
7	M	1029	SER	N-CA	-6.72	1.41	1.46
9	R	324	ASN	C-N	6.72	1.43	1.33
3	1	618	ASP	C-N	6.72	1.43	1.33
8	P	427	ILE	CA-CB	-6.72	1.46	1.54
3	1	1002	ILE	C-O	-6.72	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	Q	787	HIS	CA-C	-6.71	1.44	1.52
2	0	1340	TRP	CA-C	-6.71	1.44	1.52
9	T	158	ASN	CA-C	-6.71	1.44	1.52
5	B	515	ASN	C-N	6.71	1.42	1.33
7	O	1286	PHE	C-O	-6.71	1.16	1.24
8	P	414	ASN	N-CA	-6.71	1.38	1.46
7	M	152	HIS	ND1-CE1	6.71	1.39	1.32
4	A	761	ASN	CA-C	-6.71	1.44	1.52
5	B	355	PHE	CA-CB	6.71	1.64	1.53
2	0	1249	LEU	C-N	6.71	1.43	1.33
7	M	1647	ARG	CD-NE	6.70	1.55	1.46
2	0	384	GLU	N-CA	-6.70	1.37	1.46
3	1	623	SER	C-N	6.70	1.42	1.33
7	O	31	ASP	N-CA	-6.70	1.38	1.46
9	S	787	HIS	CA-C	-6.70	1.44	1.52
9	Q	251	ALA	C-N	6.70	1.42	1.33
8	N	1426	SER	CA-CB	6.70	1.64	1.53
2	Y	427	ALA	C-N	-6.70	1.28	1.33
2	Y	1081	CYS	C-N	6.70	1.43	1.33
3	1	598	PRO	CA-C	-6.70	1.42	1.52
5	H	355	PHE	CA-CB	6.70	1.64	1.53
7	O	104	VAL	C-O	-6.70	1.16	1.24
9	T	134	LYS	C-N	6.70	1.42	1.33
9	Q	744	LEU	C-N	6.69	1.41	1.32
5	H	469	ARG	NE-CZ	6.69	1.40	1.33
7	O	140	LEU	C-N	6.69	1.42	1.33
7	O	1205	ASN	CA-CB	6.69	1.63	1.53
7	O	1218	ASN	CA-C	-6.69	1.44	1.52
7	O	1107	GLU	C-N	6.69	1.42	1.33
7	M	190	TYR	CA-CB	6.69	1.63	1.53
5	B	469	ARG	NE-CZ	6.68	1.40	1.33
7	O	118	SER	CA-C	-6.68	1.44	1.52
9	R	653	VAL	CA-CB	-6.68	1.46	1.54
9	T	607	ARG	CZ-NH2	6.68	1.42	1.33
5	H	406	VAL	C-N	6.68	1.43	1.33
9	R	134	LYS	C-N	6.68	1.42	1.33
7	M	476	ALA	N-CA	-6.67	1.38	1.46
8	N	935	VAL	CA-CB	6.67	1.63	1.54
8	P	435	LEU	N-CA	-6.67	1.38	1.46
2	Y	384	GLU	N-CA	-6.67	1.37	1.46
3	Z	441	ARG	NE-CZ	6.67	1.40	1.33
5	B	406	VAL	C-N	6.67	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	1340	TRP	CA-C	-6.67	1.44	1.52
5	E	327	PRO	N-CD	-6.67	1.38	1.47
7	M	118	SER	CA-C	-6.67	1.44	1.52
7	M	1286	PHE	C-O	-6.67	1.16	1.24
7	M	1346	ASN	CA-CB	6.67	1.61	1.53
9	R	158	ASN	CA-C	-6.67	1.44	1.52
5	H	475	SER	CA-CB	6.67	1.63	1.53
9	Q	756	LYS	CA-C	-6.67	1.43	1.52
4	G	648	LEU	CB-CG	6.66	1.66	1.53
4	G	761	ASN	CA-C	-6.66	1.44	1.52
9	R	607	ARG	CZ-NH2	6.66	1.42	1.33
7	O	603	GLU	CA-C	-6.66	1.44	1.52
7	M	1175	SER	N-CA	-6.66	1.38	1.46
2	0	536	ILE	CA-CB	-6.66	1.46	1.54
3	1	593	GLN	CA-CB	6.66	1.62	1.53
7	O	1175	SER	N-CA	-6.66	1.38	1.46
2	Y	1317	TYR	C-N	6.66	1.42	1.33
3	Z	618	ASP	C-N	6.66	1.43	1.33
9	Q	217	ARG	CZ-NH1	6.66	1.42	1.32
7	O	476	ALA	N-CA	-6.66	1.38	1.46
8	P	126	THR	CA-C	-6.66	1.44	1.52
7	M	1029	SER	C-O	6.66	1.32	1.24
9	Q	420	LEU	C-N	6.66	1.42	1.33
9	R	226	ARG	CD-NE	6.66	1.55	1.46
2	0	427	ALA	C-N	-6.66	1.28	1.33
7	M	1359	PHE	CA-C	-6.65	1.44	1.52
2	0	642	LEU	CA-CB	6.65	1.62	1.53
7	O	1359	PHE	CA-C	-6.65	1.44	1.52
9	S	417	ARG	CZ-NH2	6.65	1.42	1.33
2	0	1352	ASN	C-N	6.65	1.42	1.33
2	Y	701	THR	C-N	6.65	1.42	1.33
2	Y	1263	GLN	C-N	6.65	1.43	1.33
7	M	104	VAL	C-O	-6.65	1.16	1.24
10	U	255	ILE	C-N	6.65	1.41	1.33
3	1	441	ARG	NE-CZ	6.65	1.40	1.33
3	Z	544	ASP	CA-CB	6.65	1.61	1.52
9	R	748	SER	CA-CB	6.65	1.63	1.53
4	A	648	LEU	CB-CG	6.64	1.66	1.53
8	N	427	ILE	CA-CB	-6.64	1.46	1.54
10	W	255	ILE	C-N	6.64	1.41	1.33
9	Q	290	TYR	N-CA	6.64	1.54	1.46
9	S	251	ALA	C-N	6.64	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	1050	ALA	CA-CB	-6.63	1.43	1.53
7	O	1109	ILE	CA-CB	6.63	1.62	1.54
7	M	1257	LEU	CA-C	-6.63	1.43	1.52
8	N	885	VAL	CA-CB	-6.63	1.46	1.54
9	R	530	ARG	CZ-NH1	6.63	1.42	1.32
3	Z	247	PHE	C-N	6.63	1.42	1.33
2	0	701	THR	C-N	6.63	1.42	1.33
7	M	1107	GLU	C-N	6.62	1.42	1.33
5	B	323	LEU	CA-CB	6.62	1.64	1.53
5	B	474	SER	N-CA	6.62	1.54	1.46
9	Q	539	ALA	CA-CB	6.62	1.63	1.53
9	R	239	ILE	N-CA	6.62	1.54	1.46
3	1	646	TYR	N-CA	-6.62	1.38	1.46
7	O	1257	LEU	CA-C	-6.62	1.43	1.52
8	P	219	GLN	CA-C	-6.62	1.45	1.52
2	Y	1249	LEU	C-N	6.62	1.43	1.33
5	H	474	SER	N-CA	6.62	1.54	1.46
9	S	539	ALA	CA-CB	6.62	1.63	1.53
7	M	505	SER	N-CA	-6.62	1.38	1.45
9	S	420	LEU	C-N	6.62	1.42	1.33
7	O	505	SER	N-CA	-6.62	1.38	1.45
7	O	1637	VAL	N-CA	-6.62	1.38	1.46
8	P	746	ALA	C-N	6.62	1.42	1.33
4	J	715	GLU	CA-CB	6.61	1.63	1.53
7	O	1029	SER	C-O	6.61	1.32	1.24
5	B	475	SER	CA-CB	6.61	1.63	1.53
4	D	715	GLU	CA-CB	6.61	1.63	1.53
7	M	829	ASN	N-CA	-6.61	1.38	1.46
9	T	530	ARG	CZ-NH1	6.61	1.42	1.32
7	M	1166	HIS	ND1-CE1	6.61	1.39	1.32
5	K	363	GLN	CA-CB	6.61	1.63	1.53
8	N	414	ASN	N-CA	-6.61	1.38	1.46
3	1	544	ASP	CA-CB	6.61	1.61	1.52
8	P	1134	TRP	N-CA	-6.61	1.39	1.46
7	M	1610	ALA	C-N	6.61	1.42	1.33
5	B	516	GLN	N-CA	-6.60	1.38	1.46
7	M	1600	LEU	C-N	6.60	1.42	1.33
5	E	363	GLN	CA-CB	6.60	1.63	1.53
2	0	405	THR	N-CA	-6.60	1.38	1.46
2	0	1224	ASN	CA-CB	6.60	1.62	1.53
7	O	1610	ALA	C-N	6.60	1.42	1.33
8	P	559	PHE	CA-C	-6.60	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	S	484	LEU	N-CA	-6.60	1.37	1.46
9	T	110	GLU	CA-CB	6.60	1.63	1.53
5	K	327	PRO	N-CD	-6.60	1.38	1.47
7	O	1029	SER	N-CA	-6.60	1.41	1.46
9	S	67	THR	CA-CB	6.60	1.63	1.53
2	Y	1384	ILE	C-N	6.60	1.42	1.33
5	E	395	ALA	C-N	6.59	1.42	1.33
8	N	559	PHE	CA-C	-6.59	1.44	1.52
7	O	1273	LYS	N-CA	-6.59	1.38	1.46
9	R	595	ARG	CD-NE	6.59	1.55	1.46
9	T	357	LYS	CA-CB	6.59	1.63	1.53
9	T	595	ARG	CD-NE	6.59	1.55	1.46
2	0	1317	TYR	C-N	6.59	1.42	1.33
9	Q	688	LEU	C-N	6.59	1.42	1.33
8	P	428	ILE	CA-C	-6.59	1.44	1.52
3	Z	593	GLN	CA-CB	6.58	1.62	1.53
3	Z	598	PRO	CA-C	-6.58	1.43	1.52
5	H	516	GLN	N-CA	-6.58	1.38	1.46
7	O	692	TYR	N-CA	-6.58	1.38	1.46
8	P	1426	SER	CA-CB	6.58	1.64	1.53
3	Z	536	HIS	ND1-CE1	6.58	1.39	1.32
2	0	1385	PHE	CA-CB	6.58	1.62	1.53
3	1	753	GLU	C-N	6.58	1.42	1.33
6	I	295	LYS	CA-C	-6.58	1.44	1.52
7	O	885	GLU	CA-CB	6.58	1.64	1.53
8	P	885	VAL	CA-CB	-6.58	1.46	1.54
2	Y	491	ARG	NE-CZ	6.58	1.40	1.33
2	0	491	ARG	NE-CZ	6.58	1.40	1.33
2	Y	840	GLU	CA-C	-6.57	1.44	1.52
5	E	355	PHE	N-CA	-6.57	1.37	1.46
9	S	290	TYR	N-CA	6.57	1.54	1.46
5	K	346	GLN	N-CA	-6.57	1.37	1.46
3	Z	753	GLU	C-N	6.57	1.42	1.33
6	F	463	LYS	CA-C	-6.57	1.44	1.52
2	0	309	CYS	C-N	6.57	1.41	1.33
8	N	126	THR	CA-C	-6.57	1.44	1.52
8	N	622	LEU	C-N	6.56	1.42	1.33
7	O	1026	PHE	CA-C	-6.56	1.44	1.52
7	M	1637	VAL	N-CA	-6.56	1.38	1.46
2	Y	915	GLU	CA-CB	6.56	1.63	1.53
2	Y	1352	ASN	C-N	6.56	1.42	1.33
7	M	603	GLU	CA-C	-6.56	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	O	829	ASN	N-CA	-6.56	1.38	1.46
2	0	1372	ILE	CA-CB	-6.56	1.46	1.54
2	Y	1224	ASN	CA-CB	6.55	1.62	1.53
7	M	1273	LYS	N-CA	-6.55	1.38	1.46
8	N	428	ILE	CA-C	-6.55	1.44	1.52
2	0	915	GLU	CA-CB	6.55	1.63	1.53
7	O	1346	ASN	CA-CB	6.55	1.61	1.53
2	Y	405	THR	N-CA	-6.55	1.38	1.46
2	0	1170	ARG	NE-CZ	6.55	1.40	1.33
7	M	1109	ILE	CA-CB	6.55	1.62	1.54
7	O	1600	LEU	C-N	6.55	1.42	1.33
2	Y	1372	ILE	CA-CB	-6.55	1.46	1.54
9	Q	641	ILE	N-CA	6.55	1.54	1.46
2	0	1050	ALA	CA-CB	-6.55	1.43	1.53
7	M	885	GLU	CA-CB	6.54	1.64	1.53
9	R	110	GLU	CA-CB	6.54	1.62	1.53
7	O	723	GLU	CA-C	-6.54	1.44	1.53
7	O	1366	ARG	N-CA	-6.54	1.38	1.46
8	P	720	ARG	CZ-NH2	6.54	1.42	1.33
5	E	398	ILE	N-CA	6.54	1.55	1.46
3	1	1162	GLU	N-CA	-6.54	1.38	1.46
4	J	792	GLN	CA-C	-6.54	1.44	1.52
3	Z	646	TYR	N-CA	-6.54	1.38	1.46
6	F	396	THR	C-N	6.54	1.42	1.33
9	Q	238	PHE	CA-CB	6.54	1.64	1.53
9	Q	417	ARG	CZ-NH2	6.53	1.42	1.33
6	L	463	LYS	CA-C	-6.53	1.44	1.52
2	0	605	VAL	C-N	6.53	1.42	1.33
9	T	226	ARG	CD-NE	6.53	1.55	1.46
9	S	688	LEU	C-N	6.53	1.42	1.33
2	Y	252	ASN	CA-CB	6.53	1.64	1.53
6	C	295	LYS	CA-C	-6.53	1.44	1.52
5	E	376	LEU	N-CA	-6.53	1.37	1.46
9	T	239	ILE	N-CA	6.53	1.54	1.46
2	Y	491	ARG	CA-C	-6.52	1.44	1.52
2	0	491	ARG	CA-C	-6.52	1.44	1.52
9	S	756	LYS	CA-C	-6.52	1.43	1.52
2	Y	1027	HIS	CD2-NE2	6.52	1.45	1.37
2	0	1152	TYR	C-O	-6.52	1.16	1.24
5	E	346	GLN	N-CA	-6.52	1.37	1.46
9	Q	484	LEU	N-CA	-6.52	1.37	1.46
3	1	796	ASN	CA-C	-6.52	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	N	558	LYS	N-CA	-6.51	1.38	1.46
4	G	821	ILE	CA-CB	-6.51	1.45	1.54
3	Z	856	ASN	CA-CB	6.51	1.64	1.53
8	N	1134	TRP	N-CA	-6.51	1.39	1.46
9	R	269	ASN	N-CA	-6.51	1.38	1.46
9	R	494	TYR	C-N	6.51	1.42	1.33
2	0	210	THR	C-N	6.51	1.41	1.33
5	K	376	LEU	N-CA	-6.51	1.37	1.46
9	T	494	TYR	C-N	6.51	1.42	1.33
2	Y	1385	PHE	CA-CB	6.51	1.62	1.53
3	1	247	PHE	C-N	6.51	1.42	1.33
7	O	1166	HIS	ND1-CE1	6.51	1.39	1.32
8	N	720	ARG	CZ-NH2	6.51	1.42	1.33
9	R	414	LEU	C-N	6.51	1.42	1.33
2	0	431	ASN	CA-CB	6.51	1.64	1.53
8	N	746	ALA	C-N	6.50	1.42	1.33
3	Z	1307	VAL	C-N	6.50	1.42	1.33
8	N	1095	GLU	CA-C	-6.50	1.44	1.52
3	1	1307	VAL	C-N	6.50	1.42	1.33
5	K	398	ILE	N-CA	6.50	1.55	1.46
9	S	120	GLU	CA-C	-6.50	1.44	1.52
2	Y	536	ILE	CA-CB	-6.50	1.46	1.54
3	1	536	HIS	ND1-CE1	6.50	1.39	1.32
2	Y	1355	GLY	CA-C	-6.50	1.42	1.51
2	0	252	ASN	CA-CB	6.50	1.64	1.53
5	K	355	PHE	N-CA	-6.50	1.37	1.46
9	T	536	ASN	CA-CB	6.50	1.64	1.53
7	M	94	SER	CA-CB	6.50	1.62	1.53
3	1	998	TYR	C-N	6.49	1.42	1.33
6	L	292	HIS	C-O	-6.49	1.16	1.24
9	S	641	ILE	N-CA	6.49	1.54	1.46
2	Y	210	THR	C-N	6.49	1.41	1.33
5	E	312	VAL	CA-C	-6.49	1.45	1.52
9	Q	336	LEU	C-N	6.49	1.42	1.33
6	L	345	LEU	CA-C	-6.49	1.44	1.52
7	O	94	SER	CA-CB	6.49	1.62	1.53
2	Y	1035	LEU	CA-C	6.49	1.61	1.52
3	Z	998	TYR	C-N	6.49	1.42	1.33
2	0	1027	HIS	CD2-NE2	6.49	1.45	1.37
2	Y	1170	ARG	NE-CZ	6.48	1.40	1.33
9	S	238	PHE	CA-CB	6.48	1.64	1.53
6	F	274	ARG	CA-C	-6.48	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	Q	530	ARG	CA-C	-6.48	1.44	1.52
5	H	440	PHE	C-N	6.48	1.42	1.33
2	Y	592	TYR	CA-CB	6.48	1.61	1.53
8	P	1095	GLU	CA-C	-6.48	1.44	1.52
2	Y	932	ILE	CA-CB	6.47	1.61	1.54
7	M	1171	SER	C-N	6.47	1.43	1.33
8	P	558	LYS	N-CA	-6.47	1.38	1.46
8	P	1432	ARG	CZ-NH1	6.47	1.41	1.32
9	S	530	ARG	CA-C	-6.47	1.44	1.52
7	M	1366	ARG	N-CA	-6.47	1.38	1.46
5	H	337	GLN	CA-C	-6.47	1.44	1.52
9	S	336	LEU	C-N	6.47	1.42	1.33
9	R	536	ASN	CA-CB	6.47	1.64	1.53
5	K	527	LEU	CA-CB	6.47	1.63	1.53
9	T	810	ALA	CA-C	-6.47	1.44	1.52
10	W	345	TYR	N-CA	-6.47	1.37	1.46
3	Z	80	VAL	CA-C	-6.47	1.44	1.52
2	Y	431	ASN	CA-CB	6.47	1.64	1.53
8	N	383	LEU	CA-C	-6.47	1.44	1.52
8	P	383	LEU	CA-C	-6.47	1.44	1.52
9	T	269	ASN	N-CA	-6.47	1.38	1.46
5	B	337	GLN	CA-C	-6.46	1.44	1.52
7	M	1026	PHE	CA-C	-6.46	1.44	1.52
7	M	1365	ASN	N-CA	-6.46	1.38	1.46
8	P	519	SER	N-CA	-6.46	1.38	1.46
7	M	645	ILE	C-N	6.46	1.42	1.33
7	M	1096	LEU	CA-C	-6.46	1.44	1.52
3	1	829	LEU	N-CA	-6.46	1.38	1.46
3	1	1018	TYR	CA-CB	6.46	1.63	1.53
4	A	821	ILE	CA-CB	-6.46	1.45	1.54
3	1	231	TYR	CZ-OH	6.46	1.51	1.38
2	Y	605	VAL	C-N	6.46	1.42	1.33
3	Z	231	TYR	CZ-OH	6.46	1.51	1.38
3	1	1130	ARG	CA-CB	6.46	1.63	1.53
8	P	622	LEU	C-N	6.46	1.42	1.33
9	S	317	ASP	C-N	6.46	1.42	1.33
2	Y	368	ILE	N-CA	-6.46	1.38	1.46
8	P	1142	PHE	N-CA	-6.46	1.38	1.46
2	Y	1039	VAL	CA-C	-6.46	1.45	1.52
7	M	723	GLU	CA-C	-6.46	1.44	1.53
8	N	519	SER	N-CA	-6.46	1.38	1.46
8	N	630	ASN	CA-C	-6.46	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	P	630	ASN	CA-C	-6.46	1.45	1.52
3	Z	1154	VAL	CA-CB	6.45	1.61	1.54
3	1	856	ASN	CA-CB	6.45	1.64	1.53
3	1	1154	VAL	CA-CB	6.45	1.61	1.54
7	M	692	TYR	N-CA	-6.45	1.38	1.46
3	Z	829	LEU	N-CA	-6.45	1.38	1.46
7	O	1253	ARG	CD-NE	6.45	1.55	1.46
8	P	1577	ASP	C-N	6.45	1.42	1.33
8	P	450	THR	CA-C	-6.45	1.44	1.52
3	Z	1270	ILE	CA-CB	-6.44	1.46	1.54
7	M	729	MET	CA-C	-6.44	1.44	1.53
2	Y	1107	LEU	C-N	6.44	1.42	1.33
5	B	294	LYS	CA-CB	6.44	1.62	1.52
3	Z	1130	ARG	CA-CB	6.44	1.63	1.53
4	D	792	GLN	CA-C	-6.44	1.44	1.52
8	N	1372	THR	C-N	6.44	1.42	1.33
2	Y	1152	TYR	C-O	-6.43	1.16	1.24
4	A	808	ASP	CG-OD1	6.43	1.37	1.25
9	R	233	ASP	N-CA	-6.43	1.38	1.47
2	Y	1082	GLN	C-N	-6.43	1.25	1.33
9	R	629	ARG	CA-CB	6.43	1.63	1.53
5	K	312	VAL	CA-C	-6.43	1.45	1.52
9	S	68	LYS	C-N	6.43	1.42	1.33
6	F	345	LEU	CA-C	-6.43	1.44	1.52
7	M	88	ALA	N-CA	-6.43	1.38	1.46
9	R	357	LYS	CA-CB	6.43	1.63	1.53
9	R	826	ARG	CZ-NH1	6.43	1.41	1.32
7	O	213	ILE	CA-CB	-6.43	1.46	1.54
3	Z	796	ASN	CA-C	-6.43	1.44	1.52
9	R	475	SER	C-O	-6.43	1.15	1.24
7	M	605	ALA	C-N	6.43	1.42	1.33
10	U	345	TYR	N-CA	-6.43	1.37	1.46
7	O	605	ALA	C-N	6.43	1.42	1.33
3	1	302	ILE	C-N	6.42	1.42	1.33
5	H	294	LYS	CA-CB	6.42	1.62	1.52
7	O	1171	SER	C-N	6.42	1.42	1.33
3	Z	1018	TYR	CA-CB	6.42	1.63	1.53
3	Z	1162	GLU	N-CA	-6.42	1.38	1.46
3	Z	256	THR	CA-C	-6.42	1.45	1.52
5	B	417	THR	CA-C	-6.42	1.44	1.52
8	N	1577	ASP	C-N	6.42	1.42	1.33
7	O	1033	SER	CA-C	-6.42	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	P	1372	THR	C-N	6.42	1.42	1.33
3	Z	302	ILE	C-N	6.42	1.42	1.33
8	N	718	PHE	CA-CB	6.42	1.63	1.53
2	0	844	SER	CA-C	-6.42	1.44	1.52
9	T	414	LEU	C-N	6.42	1.42	1.33
3	1	1019	THR	CA-C	-6.42	1.44	1.52
2	0	1008	GLU	CA-CB	6.41	1.63	1.53
7	M	820	GLN	N-CA	-6.41	1.37	1.46
9	S	481	THR	C-N	6.41	1.42	1.33
9	T	475	SER	C-O	-6.41	1.16	1.24
2	Y	1302	LEU	C-N	6.41	1.41	1.33
7	M	1561	LEU	N-CA	-6.41	1.38	1.46
3	1	1270	ILE	CA-CB	-6.41	1.46	1.54
9	Q	481	THR	C-N	6.41	1.42	1.33
2	0	1039	VAL	CA-C	-6.41	1.45	1.52
5	K	395	ALA	C-N	6.41	1.42	1.33
6	L	274	ARG	CA-C	-6.41	1.44	1.52
7	O	1523	PHE	CA-CB	6.41	1.63	1.53
8	N	17	HIS	ND1-CE1	6.40	1.39	1.32
2	0	297	HIS	CD2-NE2	6.40	1.44	1.37
2	0	840	GLU	CA-C	-6.40	1.44	1.52
3	1	80	VAL	CA-C	-6.40	1.45	1.52
7	O	645	ILE	C-N	6.40	1.42	1.33
9	T	233	ASP	N-CA	-6.40	1.38	1.47
3	Z	402	ARG	CD-NE	6.40	1.55	1.46
9	Q	317	ASP	C-N	6.40	1.42	1.33
2	0	1390	LEU	CA-C	-6.40	1.44	1.52
9	T	723	ILE	CA-C	-6.40	1.45	1.52
8	N	1160	ILE	CA-C	-6.40	1.46	1.52
9	Q	68	LYS	C-N	6.40	1.42	1.33
9	Q	234	ILE	CA-CB	-6.40	1.45	1.54
5	B	443	LEU	C-N	6.39	1.42	1.33
5	E	527	LEU	CA-CB	6.39	1.63	1.53
9	R	309	ILE	CA-CB	6.39	1.62	1.54
8	P	1249	GLN	N-CA	6.39	1.54	1.46
9	R	810	ALA	CA-C	-6.39	1.44	1.52
2	0	592	TYR	CA-CB	6.39	1.61	1.53
3	1	988	CYS	N-CA	-6.39	1.38	1.46
8	P	17	HIS	ND1-CE1	6.39	1.39	1.32
8	P	718	PHE	CA-CB	6.39	1.63	1.53
2	Y	1390	LEU	CA-C	-6.39	1.44	1.52
11	V	355	TRP	CA-CB	6.39	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	0	301	SER	CA-C	-6.39	1.44	1.52
3	1	402	ARG	CD-NE	6.39	1.55	1.46
5	H	443	LEU	C-N	6.39	1.42	1.33
9	Q	566	PRO	CA-C	6.38	1.61	1.52
2	0	368	ILE	N-CA	-6.38	1.38	1.46
3	1	403	ALA	CA-C	6.38	1.61	1.52
7	O	1087	CYS	CA-CB	6.38	1.63	1.53
9	R	723	ILE	CA-C	-6.38	1.45	1.52
2	0	420	ILE	N-CA	-6.38	1.38	1.46
6	L	396	THR	C-N	6.38	1.42	1.33
7	O	820	GLN	N-CA	-6.38	1.37	1.46
5	B	457	ASN	CA-C	-6.38	1.44	1.52
8	N	1432	ARG	CZ-NH1	6.38	1.41	1.32
3	1	831	GLY	C-N	6.38	1.42	1.33
7	O	729	MET	CA-C	-6.38	1.44	1.53
8	N	733	ARG	CD-NE	6.38	1.55	1.46
8	P	464	ALA	C-N	6.38	1.41	1.33
8	P	733	ARG	CD-NE	6.38	1.55	1.46
3	Z	1335	ASN	C-N	6.38	1.41	1.34
2	0	1082	GLN	C-N	-6.38	1.25	1.33
4	G	808	ASP	CG-OD1	6.38	1.37	1.25
5	H	417	THR	CA-C	-6.38	1.44	1.52
4	J	795	LYS	C-O	-6.38	1.16	1.24
7	O	980	ASP	C-N	6.38	1.42	1.33
3	Z	125	PHE	CA-C	-6.38	1.45	1.52
3	Z	164	GLY	C-N	6.38	1.42	1.33
3	Z	440	ARG	CD-NE	6.38	1.55	1.46
2	0	1035	LEU	CA-C	6.38	1.61	1.52
3	1	125	PHE	CA-C	-6.38	1.45	1.52
7	O	1365	ASN	N-CA	-6.38	1.38	1.46
7	O	1096	LEU	CA-C	-6.38	1.44	1.52
2	Y	1049	GLU	N-CA	-6.37	1.38	1.46
3	Z	988	CYS	N-CA	-6.37	1.38	1.46
2	0	1355	GLY	CA-C	-6.37	1.42	1.51
8	N	50	ASN	N-CA	-6.37	1.37	1.46
3	1	850	HIS	CG-CD2	6.37	1.42	1.35
7	M	980	ASP	C-N	6.37	1.42	1.33
8	N	450	THR	CA-C	-6.37	1.44	1.52
11	X	355	TRP	CA-CB	6.37	1.63	1.53
7	M	1523	PHE	CA-CB	6.37	1.63	1.53
7	M	1653	LYS	N-CA	-6.37	1.41	1.47
8	N	1456	ILE	CA-C	-6.37	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	0	1054	MET	CA-C	6.37	1.61	1.52
4	J	765	LEU	CA-C	6.37	1.61	1.52
3	Z	88	SER	N-CA	-6.36	1.37	1.45
2	0	139	LYS	N-CA	-6.36	1.38	1.46
5	H	457	ASN	CA-C	-6.36	1.44	1.52
3	Z	1285	VAL	N-CA	6.36	1.54	1.46
4	D	765	LEU	CA-C	6.36	1.61	1.52
4	D	795	LYS	C-O	-6.36	1.16	1.24
8	N	1142	PHE	N-CA	-6.36	1.38	1.46
2	0	1183	LEU	N-CA	-6.36	1.40	1.46
7	O	1160	TYR	CA-CB	6.36	1.63	1.53
8	P	1136	SER	CA-CB	6.36	1.63	1.53
2	Y	1008	GLU	CA-CB	6.36	1.63	1.53
3	Z	276	GLY	CA-C	-6.36	1.47	1.52
6	F	276	GLU	C-N	6.36	1.41	1.33
6	F	292	HIS	C-O	-6.36	1.16	1.24
8	P	1309	ARG	CA-C	-6.35	1.44	1.52
3	Z	1291	LYS	CA-CB	6.35	1.63	1.53
3	1	390	ALA	CA-C	-6.35	1.44	1.52
3	1	164	GLY	C-N	6.35	1.42	1.33
3	Z	903	CYS	N-CA	-6.35	1.38	1.46
5	E	393	ASP	CA-C	-6.35	1.44	1.52
7	M	772	ASN	N-CA	-6.34	1.38	1.46
7	O	88	ALA	N-CA	-6.34	1.38	1.46
3	Z	870	VAL	CA-C	6.34	1.60	1.52
2	0	932	ILE	CA-CB	6.34	1.61	1.54
3	1	229	ASP	CA-C	-6.34	1.45	1.52
3	1	870	VAL	CA-C	6.34	1.60	1.52
3	1	1291	LYS	CA-CB	6.34	1.63	1.53
7	O	954	GLY	C-N	6.34	1.42	1.33
7	O	1561	LEU	N-CA	-6.34	1.38	1.46
3	1	256	THR	CA-C	-6.34	1.45	1.52
5	B	440	PHE	C-N	6.33	1.42	1.33
2	Y	1016	ILE	CA-CB	-6.33	1.46	1.54
3	Z	605	THR	N-CA	-6.33	1.37	1.45
7	M	1087	CYS	CA-CB	6.33	1.63	1.53
6	L	276	GLU	C-N	6.33	1.41	1.33
9	T	826	ARG	CZ-NH1	6.33	1.41	1.32
9	T	369	THR	CA-C	6.33	1.61	1.52
2	Y	682	ALA	CA-C	-6.33	1.44	1.52
2	Y	1023	SER	C-N	6.33	1.42	1.33
3	Z	1292	ILE	CA-CB	-6.33	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	0	1016	ILE	CA-CB	-6.33	1.46	1.54
2	Y	1054	MET	CA-C	6.33	1.61	1.52
3	1	440	ARG	CD-NE	6.33	1.55	1.46
7	M	1160	TYR	CA-CB	6.32	1.63	1.53
2	Y	844	SER	CA-C	-6.32	1.44	1.52
2	Y	173	MET	C-N	6.32	1.40	1.33
2	Y	1334	GLU	CA-CB	6.32	1.63	1.53
2	0	1023	SER	C-N	6.32	1.42	1.33
8	P	1456	ILE	CA-C	-6.32	1.44	1.52
2	0	1107	LEU	C-N	6.32	1.41	1.33
3	Z	831	GLY	C-N	6.32	1.42	1.33
7	M	1197	PHE	CA-CB	6.32	1.64	1.53
9	R	249	ARG	CD-NE	6.32	1.55	1.46
3	1	1175	ASN	C-N	6.32	1.42	1.33
9	T	309	ILE	CA-CB	6.32	1.62	1.54
8	N	464	ALA	C-N	6.32	1.41	1.33
7	O	1639	GLY	C-N	6.32	1.41	1.33
8	P	165	ASN	CA-CB	6.32	1.64	1.54
9	T	629	ARG	CA-CB	6.32	1.63	1.53
3	Z	403	ALA	CA-C	6.31	1.61	1.52
2	0	1363	PHE	CA-CB	6.31	1.63	1.53
3	Z	229	ASP	CA-C	-6.31	1.45	1.52
8	N	1136	SER	CA-CB	6.31	1.63	1.53
5	B	472	ASN	C-N	6.31	1.41	1.33
5	B	513	LEU	CA-C	-6.31	1.44	1.52
2	Y	110	HIS	CD2-NE2	6.31	1.44	1.37
7	M	1253	ARG	CD-NE	6.31	1.55	1.46
8	N	1472	SER	C-N	6.31	1.42	1.33
2	0	173	MET	C-N	6.31	1.40	1.33
7	O	1506	ILE	CA-C	-6.31	1.44	1.52
8	N	1309	ARG	CA-C	-6.31	1.44	1.52
9	R	533	ARG	N-CA	-6.31	1.38	1.46
2	0	682	ALA	CA-C	-6.31	1.44	1.52
3	1	1335	ASN	C-N	6.31	1.41	1.34
2	0	1049	GLU	N-CA	-6.31	1.38	1.46
8	P	267	ILE	N-CA	-6.31	1.38	1.46
7	O	1653	LYS	N-CA	-6.30	1.41	1.47
3	1	88	SER	N-CA	-6.30	1.37	1.45
2	0	445	ARG	CA-C	-6.30	1.45	1.52
2	0	846	ILE	CA-C	-6.30	1.43	1.52
2	0	1302	LEU	C-N	6.30	1.41	1.33
3	1	289	ASN	CA-C	-6.30	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	T	599	ARG	CD-NE	6.30	1.55	1.46
7	M	1639	GLY	C-N	6.30	1.41	1.33
9	Q	355	GLU	N-CA	-6.30	1.38	1.46
3	1	1285	VAL	N-CA	6.30	1.53	1.46
7	O	772	ASN	N-CA	-6.30	1.38	1.46
7	O	1197	PHE	CA-CB	6.30	1.64	1.53
7	O	277	LEU	N-CA	-6.30	1.38	1.46
7	O	679	ILE	CA-C	6.30	1.60	1.52
6	C	458	ALA	CA-CB	6.30	1.63	1.53
5	K	392	LEU	CA-C	-6.30	1.44	1.52
7	O	196	ILE	C-N	6.30	1.41	1.33
2	Y	445	ARG	CA-C	-6.29	1.45	1.52
2	Y	301	SER	CA-C	-6.29	1.45	1.52
8	N	1334	ASP	C-N	6.29	1.42	1.34
9	R	75	ASN	CA-CB	6.29	1.61	1.52
3	1	612	TYR	CA-CB	6.29	1.63	1.53
8	P	1334	ASP	C-N	6.29	1.42	1.34
8	P	1472	SER	C-N	6.29	1.42	1.33
9	S	234	ILE	CA-CB	-6.29	1.45	1.54
3	Z	850	HIS	CG-CD2	6.29	1.42	1.35
2	Y	139	LYS	N-CA	-6.29	1.38	1.46
2	Y	1363	PHE	CA-CB	6.29	1.63	1.53
7	M	1143	SER	N-CA	-6.29	1.38	1.46
9	R	157	LYS	C-N	6.29	1.41	1.33
8	P	50	ASN	N-CA	-6.29	1.37	1.46
7	M	1033	SER	CA-C	-6.29	1.44	1.52
3	Z	289	ASN	CA-C	-6.28	1.44	1.52
8	P	994	ILE	N-CA	-6.28	1.38	1.46
3	Z	1019	THR	CA-C	-6.28	1.44	1.52
9	T	75	ASN	CA-CB	6.28	1.61	1.52
7	M	954	GLY	C-N	6.28	1.42	1.33
7	O	260	MET	CA-C	-6.28	1.44	1.52
8	P	887	VAL	CA-CB	6.28	1.62	1.54
9	T	220	PHE	CA-CB	6.28	1.63	1.53
5	K	393	ASP	CA-C	-6.28	1.44	1.52
7	O	1538	LEU	CA-CB	6.28	1.63	1.53
9	R	220	PHE	CA-CB	6.28	1.63	1.53
7	O	1143	SER	N-CA	-6.28	1.38	1.46
7	O	1163	LEU	N-CA	-6.27	1.39	1.46
3	Z	348	ASP	C-N	6.27	1.42	1.33
3	Z	612	TYR	CA-CB	6.27	1.63	1.53
2	0	1334	GLU	CA-CB	6.27	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	N	529	LEU	N-CA	-6.27	1.38	1.46
8	N	887	VAL	CA-CB	6.27	1.62	1.54
4	J	777	ASN	CA-C	-6.27	1.46	1.53
2	Y	420	ILE	N-CA	-6.27	1.38	1.46
2	Y	1183	LEU	N-CA	-6.27	1.40	1.46
9	S	231	ASN	CA-CB	6.27	1.62	1.53
9	R	272	GLU	CA-C	-6.26	1.44	1.52
9	S	436	LEU	CA-C	-6.26	1.44	1.52
9	Q	231	ASN	CA-CB	6.26	1.62	1.53
9	S	566	PRO	CA-C	6.26	1.60	1.52
5	E	392	LEU	CA-C	-6.26	1.44	1.52
7	M	623	VAL	C-N	6.26	1.41	1.33
8	N	165	ASN	CA-CB	6.26	1.64	1.54
8	N	484	ASN	C-O	-6.26	1.16	1.23
2	0	1305	SER	N-CA	-6.26	1.38	1.46
8	N	1249	GLN	N-CA	6.26	1.54	1.46
5	H	513	LEU	CA-C	-6.25	1.44	1.52
8	P	1160	ILE	CA-C	-6.25	1.47	1.52
9	T	533	ARG	N-CA	-6.25	1.38	1.46
2	0	110	HIS	CD2-NE2	6.25	1.44	1.37
3	1	605	THR	N-CA	-6.25	1.37	1.45
2	Y	297	HIS	CD2-NE2	6.25	1.44	1.37
7	O	1029	SER	CA-CB	6.25	1.62	1.53
9	S	355	GLU	N-CA	-6.25	1.38	1.46
2	0	534	ALA	CA-C	-6.25	1.45	1.53
5	K	353	TYR	N-CA	-6.25	1.38	1.46
8	P	1353	SER	CA-CB	6.25	1.63	1.53
2	Y	534	ALA	CA-C	-6.25	1.45	1.53
2	Y	1029	LYS	CA-C	-6.25	1.44	1.52
3	Z	708	ARG	CD-NE	6.25	1.54	1.46
7	M	679	ILE	CA-C	6.25	1.60	1.52
7	M	1029	SER	CA-CB	6.25	1.62	1.53
9	S	264	LYS	N-CA	-6.25	1.38	1.46
7	M	213	ILE	CA-CB	-6.24	1.46	1.54
7	M	1523	PHE	CA-C	-6.24	1.44	1.52
8	N	814	ASP	N-CA	-6.24	1.38	1.46
3	1	348	ASP	C-N	6.24	1.42	1.33
7	O	111	GLN	N-CA	-6.24	1.39	1.46
8	P	1236	LEU	C-N	6.24	1.42	1.33
9	T	249	ARG	CD-NE	6.24	1.54	1.46
3	1	903	CYS	N-CA	-6.24	1.38	1.46
9	Q	264	LYS	N-CA	-6.24	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	0	1155	ARG	CD-NE	6.24	1.54	1.46
7	O	1628	GLY	CA-C	-6.24	1.45	1.52
7	M	1506	ILE	CA-C	-6.24	1.44	1.52
8	P	1303	LEU	C-N	6.24	1.42	1.33
9	T	546	ARG	NE-CZ	6.24	1.40	1.33
2	Y	1348	ARG	CD-NE	6.24	1.54	1.46
9	Q	246	ASN	CA-C	-6.24	1.45	1.52
8	P	899	GLN	N-CA	-6.23	1.38	1.46
7	M	1347	ILE	CA-C	-6.23	1.43	1.52
8	N	1110	HIS	ND1-CE1	6.23	1.38	1.32
9	R	599	ARG	CD-NE	6.23	1.54	1.46
9	T	598	ALA	CA-CB	6.23	1.63	1.53
7	O	1566	ASP	CA-CB	6.23	1.63	1.53
8	N	899	GLN	N-CA	-6.23	1.38	1.46
9	R	499	SER	CA-C	-6.23	1.44	1.52
3	1	1130	ARG	CA-C	-6.23	1.44	1.52
7	M	196	ILE	C-N	6.23	1.41	1.33
5	H	472	ASN	C-N	6.23	1.40	1.33
9	S	826	ARG	CD-NE	6.23	1.54	1.46
2	Y	260	HIS	CE1-NE2	-6.22	1.26	1.32
2	Y	294	TRP	N-CA	6.22	1.53	1.45
2	0	936	VAL	N-CA	-6.22	1.39	1.46
3	1	1292	ILE	CA-CB	-6.22	1.46	1.54
4	D	777	ASN	CA-C	-6.22	1.46	1.53
9	R	546	ARG	NE-CZ	6.22	1.39	1.33
8	N	267	ILE	N-CA	-6.22	1.38	1.46
8	N	994	ILE	N-CA	-6.22	1.38	1.46
9	Q	333	ILE	CA-CB	-6.22	1.46	1.54
7	O	1536	SER	N-CA	6.22	1.53	1.46
2	Y	846	ILE	CA-C	-6.22	1.43	1.52
7	M	1163	LEU	N-CA	-6.22	1.39	1.46
2	0	294	TRP	N-CA	6.22	1.53	1.45
2	0	1029	LYS	CA-C	-6.22	1.44	1.52
7	O	759	ASP	CA-C	6.22	1.60	1.52
9	S	505	HIS	CD2-NE2	6.22	1.44	1.37
3	Z	1175	ASN	C-N	6.21	1.41	1.33
3	Z	862	LEU	CA-C	-6.21	1.45	1.52
9	Q	436	LEU	CA-C	-6.21	1.45	1.52
9	Q	505	HIS	CD2-NE2	6.21	1.44	1.37
11	V	351	THR	N-CA	6.21	1.53	1.46
7	O	623	VAL	C-N	6.21	1.41	1.33
8	P	23	ASN	CA-CB	6.21	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	Q	225	SER	N-CA	-6.21	1.38	1.46
9	S	225	SER	N-CA	-6.21	1.38	1.46
2	Y	1155	ARG	CD-NE	6.21	1.54	1.46
2	Y	1214	ALA	CA-C	-6.21	1.44	1.52
3	Z	390	ALA	CA-C	-6.21	1.44	1.52
8	P	484	ASN	C-O	-6.21	1.16	1.23
8	P	345	ASP	CA-C	-6.21	1.44	1.52
9	T	272	GLU	CA-C	-6.20	1.44	1.52
3	Z	366	TYR	CA-C	-6.20	1.45	1.52
7	M	873	ASN	C-O	-6.20	1.17	1.24
6	I	458	ALA	CA-CB	6.20	1.63	1.53
8	N	491	ILE	C-N	6.20	1.39	1.33
2	0	602	ALA	N-CA	-6.20	1.37	1.46
3	1	862	LEU	CA-C	-6.20	1.45	1.52
3	Z	1159	ASN	N-CA	6.20	1.53	1.46
3	1	1159	ASN	N-CA	6.20	1.53	1.46
4	D	805	ARG	C-O	6.20	1.31	1.24
9	Q	222	PHE	CA-C	-6.20	1.45	1.52
9	T	439	HIS	C-O	-6.20	1.16	1.24
2	Y	198	ASP	CA-CB	6.19	1.61	1.53
7	M	1005	PHE	C-N	6.19	1.42	1.33
2	0	260	HIS	CE1-NE2	-6.19	1.26	1.32
8	P	1307	PHE	CA-C	6.19	1.61	1.52
2	Y	1305	SER	N-CA	-6.19	1.38	1.46
7	M	759	ASP	CA-C	6.19	1.60	1.52
7	M	1538	LEU	CA-CB	6.19	1.62	1.53
7	M	1668	LYS	N-CA	-6.19	1.39	1.46
9	R	598	ALA	CA-CB	6.19	1.63	1.53
9	S	700	ALA	CA-C	-6.19	1.44	1.52
9	S	731	GLN	N-CA	-6.19	1.38	1.46
9	T	212	PHE	CA-CB	6.19	1.62	1.53
8	N	1353	SER	CA-CB	6.18	1.62	1.53
2	Y	602	ALA	N-CA	-6.18	1.37	1.46
2	Y	1271	ILE	C-O	-6.18	1.16	1.24
9	Q	298	LEU	CA-CB	6.18	1.63	1.53
2	0	198	ASP	CA-CB	6.18	1.61	1.53
2	0	1214	ALA	CA-C	-6.18	1.44	1.52
2	0	1348	ARG	CD-NE	6.18	1.54	1.46
7	O	351	HIS	ND1-CE1	6.18	1.38	1.32
7	O	1005	PHE	C-N	6.18	1.42	1.33
9	T	691	ARG	NE-CZ	6.18	1.39	1.33
5	B	518	ARG	CD-NE	6.18	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	N	1200	GLU	CA-C	-6.18	1.45	1.52
8	P	491	ILE	C-N	6.18	1.39	1.33
8	P	1200	GLU	CA-C	-6.18	1.45	1.52
7	M	734	LEU	CA-C	-6.18	1.45	1.52
8	P	1347	GLY	C-N	6.18	1.41	1.33
3	Z	1108	PHE	CA-C	-6.18	1.44	1.52
7	M	1261	SER	C-N	6.18	1.42	1.33
8	N	1303	LEU	C-N	6.18	1.42	1.33
7	O	873	ASN	C-O	-6.18	1.17	1.24
8	P	919	LEU	CA-C	-6.18	1.44	1.52
8	N	1307	PHE	CA-C	6.17	1.61	1.52
3	Z	739	LYS	CA-C	-6.17	1.44	1.52
9	Q	242	LEU	C-N	6.17	1.42	1.34
5	H	518	ARG	CD-NE	6.17	1.54	1.46
7	O	734	LEU	CA-C	-6.17	1.45	1.52
6	F	322	THR	N-CA	-6.17	1.38	1.46
7	M	584	GLU	CA-C	6.17	1.61	1.52
9	T	157	LYS	C-N	6.17	1.41	1.33
3	Z	948	ARG	NE-CZ	6.17	1.39	1.33
5	E	337	GLN	C-N	6.17	1.42	1.34
3	1	276	GLY	CA-C	-6.17	1.48	1.52
7	O	351	HIS	CB-CG	6.17	1.58	1.50
7	M	111	GLN	N-CA	-6.17	1.39	1.46
7	O	1511	LEU	CA-C	-6.17	1.44	1.52
9	S	298	LEU	CA-CB	6.17	1.63	1.53
9	Q	700	ALA	CA-C	-6.16	1.44	1.52
3	1	708	ARG	CD-NE	6.16	1.54	1.46
3	1	408	LYS	CA-C	-6.16	1.44	1.52
3	1	930	THR	N-CA	6.16	1.53	1.46
3	1	1108	PHE	CA-C	-6.16	1.44	1.52
7	O	1347	ILE	CA-C	-6.16	1.43	1.52
9	S	242	LEU	C-N	6.16	1.42	1.34
11	X	351	THR	N-CA	6.16	1.53	1.46
3	Z	408	LYS	CA-C	-6.16	1.44	1.52
7	M	162	ILE	C-N	6.16	1.42	1.33
7	M	1511	LEU	CA-C	-6.16	1.44	1.52
8	N	23	ASN	CA-CB	6.16	1.62	1.53
8	N	1236	LEU	C-N	6.16	1.42	1.33
8	N	1363	SER	C-N	6.16	1.43	1.33
5	E	353	TYR	N-CA	-6.15	1.38	1.46
7	O	1630	LEU	N-CA	-6.15	1.39	1.46
2	Y	253	GLU	CA-CB	6.15	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	1282	ASP	CA-C	-6.15	1.45	1.52
7	M	1369	LYS	CA-C	-6.15	1.44	1.52
10	U	319	LYS	CA-C	-6.15	1.45	1.52
4	J	770	ASN	CA-CB	6.15	1.62	1.53
8	N	345	ASP	CA-C	-6.14	1.44	1.52
7	M	1566	ASP	CA-CB	6.14	1.63	1.53
9	T	274	GLY	C-N	6.14	1.41	1.33
3	Z	933	ASP	CA-CB	6.14	1.62	1.53
9	R	369	THR	CA-C	6.14	1.60	1.52
2	0	273	ILE	CA-CB	6.14	1.62	1.54
7	M	260	MET	CA-C	-6.14	1.44	1.52
9	R	691	ARG	NE-CZ	6.14	1.39	1.33
9	T	522	THR	CA-C	-6.14	1.45	1.53
2	Y	871	ASN	C-N	6.14	1.41	1.33
7	M	615	LEU	C-N	6.14	1.41	1.33
7	M	1330	GLU	C-N	6.14	1.41	1.33
3	1	739	LYS	CA-C	-6.14	1.44	1.52
8	P	529	LEU	N-CA	-6.14	1.39	1.46
7	M	226	ASN	CA-C	-6.13	1.44	1.52
7	M	654	PHE	C-N	6.13	1.41	1.33
7	M	1628	GLY	CA-C	-6.13	1.45	1.52
3	1	366	TYR	CA-C	-6.13	1.45	1.52
7	O	1523	PHE	CA-C	-6.13	1.44	1.52
8	N	1262	LEU	C-O	-6.13	1.17	1.24
9	R	439	HIS	C-O	-6.13	1.17	1.24
2	0	644	SER	CA-C	-6.13	1.44	1.52
2	0	871	ASN	C-N	6.13	1.41	1.33
5	E	308	LEU	CA-C	-6.13	1.44	1.52
8	P	819	THR	CA-C	-6.13	1.45	1.52
9	Q	731	GLN	N-CA	-6.13	1.38	1.46
9	Q	826	ARG	CD-NE	6.13	1.54	1.46
7	O	423	LEU	C-N	6.13	1.41	1.33
9	S	478	TYR	C-N	6.13	1.41	1.33
2	0	253	GLU	CA-CB	6.13	1.60	1.53
7	O	1369	LYS	CA-C	-6.13	1.44	1.52
8	P	1110	HIS	ND1-CE1	6.12	1.38	1.32
8	P	448	ILE	CA-CB	6.12	1.62	1.54
7	M	41	LYS	C-N	6.12	1.41	1.33
8	N	819	THR	CA-C	-6.12	1.45	1.52
2	0	400	ARG	N-CA	-6.12	1.39	1.46
9	S	246	ASN	CA-C	-6.12	1.45	1.52
4	J	805	ARG	C-O	6.12	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	1130	ARG	CA-C	-6.12	1.45	1.52
8	N	562	TRP	NE1-CE2	6.12	1.44	1.37
9	Q	265	SER	CA-CB	6.12	1.63	1.53
7	M	1366	ARG	NE-CZ	6.12	1.39	1.33
7	O	1032	ILE	CA-C	-6.12	1.45	1.52
2	Y	995	PHE	CA-C	-6.11	1.45	1.53
7	M	1032	ILE	CA-C	-6.11	1.45	1.52
7	O	654	PHE	C-N	6.11	1.41	1.33
9	S	333	ILE	CA-CB	-6.11	1.46	1.54
2	Y	286	GLY	CA-C	-6.11	1.45	1.51
9	Q	478	TYR	C-N	6.11	1.41	1.33
5	K	337	GLN	C-N	6.11	1.42	1.34
7	O	523	ARG	NE-CZ	6.11	1.39	1.33
9	T	646	LEU	N-CA	-6.11	1.38	1.46
7	M	1536	SER	N-CA	6.11	1.53	1.46
7	M	1528	VAL	N-CA	6.11	1.53	1.46
8	N	961	GLU	CA-C	6.11	1.61	1.52
7	O	1366	ARG	NE-CZ	6.11	1.39	1.33
2	0	1271	ILE	C-O	-6.10	1.16	1.24
7	O	1256	SER	C-N	6.10	1.42	1.34
3	Z	760	SER	C-N	6.10	1.41	1.33
3	1	760	SER	C-N	6.10	1.41	1.33
7	M	1256	SER	C-N	6.10	1.42	1.34
6	F	326	LEU	C-N	6.10	1.41	1.33
7	M	351	HIS	CB-CG	6.10	1.58	1.50
8	N	535	GLN	C-O	-6.10	1.17	1.23
9	R	759	ASP	C-N	6.10	1.42	1.33
8	P	535	GLN	C-O	-6.10	1.17	1.23
8	P	935	VAL	C-O	-6.10	1.16	1.24
9	T	499	SER	CA-C	-6.10	1.45	1.52
2	0	1277	SER	CA-CB	6.10	1.62	1.53
7	O	162	ILE	C-N	6.10	1.42	1.33
3	Z	930	THR	N-CA	6.10	1.53	1.46
7	O	1668	LYS	N-CA	-6.10	1.39	1.46
7	M	1619	ASN	N-CA	-6.09	1.39	1.46
2	0	358	GLN	C-N	6.09	1.41	1.33
8	N	919	LEU	CA-C	-6.09	1.44	1.52
8	N	1347	GLY	C-N	6.09	1.41	1.33
8	N	1452	SER	CA-CB	6.09	1.62	1.53
9	R	646	LEU	N-CA	-6.09	1.38	1.46
7	M	25	PHE	CA-CB	6.09	1.62	1.53
7	O	41	LYS	C-N	6.09	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1	508	PHE	CA-C	-6.09	1.45	1.52
9	S	222	PHE	CA-C	-6.09	1.45	1.52
2	0	1282	ASP	CA-C	-6.09	1.45	1.52
3	1	1349	ASP	CA-C	-6.09	1.45	1.52
5	H	379	ILE	C-O	-6.09	1.16	1.24
5	K	308	LEU	CA-C	-6.09	1.44	1.52
7	O	615	LEU	C-N	6.09	1.41	1.33
9	S	265	SER	CA-CB	6.09	1.63	1.53
7	O	951	ARG	C-N	6.08	1.42	1.34
7	O	1261	SER	C-N	6.08	1.42	1.33
3	1	933	ASP	CA-CB	6.08	1.62	1.53
8	N	165	ASN	N-CA	-6.08	1.37	1.45
8	N	1499	LEU	CA-CB	6.08	1.62	1.53
2	Y	273	ILE	CA-CB	6.08	1.62	1.54
2	Y	1277	SER	CA-CB	6.08	1.62	1.53
3	Z	549	LYS	C-N	6.08	1.42	1.33
2	Y	358	GLN	C-N	6.08	1.41	1.33
9	R	141	ASN	N-CA	-6.08	1.39	1.46
5	B	379	ILE	C-O	-6.07	1.16	1.24
7	M	951	ARG	C-N	6.07	1.42	1.34
8	N	425	LEU	CA-C	-6.07	1.44	1.52
2	0	995	PHE	CA-C	-6.07	1.45	1.53
4	G	750	THR	CA-CB	6.07	1.62	1.53
6	L	276	GLU	CA-CB	6.07	1.62	1.53
6	L	322	THR	N-CA	-6.07	1.38	1.46
7	O	1330	GLU	C-N	6.07	1.41	1.33
9	T	148	TRP	CA-CB	6.07	1.62	1.53
4	D	809	ASP	C-N	6.07	1.42	1.33
7	O	584	GLU	CA-C	6.07	1.60	1.52
8	P	425	LEU	CA-C	-6.07	1.44	1.52
9	R	212	PHE	CA-CB	6.07	1.62	1.53
9	R	522	THR	CA-C	-6.07	1.45	1.53
8	P	219	GLN	N-CA	-6.07	1.39	1.46
8	P	1300	GLY	CA-C	-6.07	1.44	1.51
9	R	436	LEU	CA-C	-6.07	1.45	1.52
7	O	25	PHE	CA-CB	6.07	1.62	1.53
2	Y	256	VAL	CA-CB	-6.07	1.46	1.54
3	Z	441	ARG	CD-NE	6.07	1.54	1.46
9	R	258	LYS	N-CA	6.07	1.53	1.46
7	O	1619	ASN	N-CA	-6.06	1.39	1.46
4	D	770	ASN	CA-CB	6.06	1.62	1.53
2	Y	936	VAL	N-CA	-6.06	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	971	ILE	CA-CB	-6.06	1.47	1.54
8	P	165	ASN	N-CA	-6.06	1.37	1.45
3	Z	508	PHE	CA-C	-6.06	1.45	1.52
8	N	1118	PHE	CA-CB	6.06	1.62	1.53
3	1	549	LYS	C-N	6.06	1.42	1.33
7	O	226	ASN	CA-C	-6.06	1.44	1.52
10	W	319	LYS	CA-C	-6.06	1.45	1.52
7	M	1539	ILE	C-N	6.06	1.42	1.34
9	Q	71	TYR	CA-C	-6.05	1.45	1.53
7	M	1630	LEU	N-CA	-6.05	1.39	1.46
9	T	308	PHE	C-O	-6.05	1.17	1.24
4	A	699	TYR	CA-CB	6.05	1.63	1.53
3	1	584	GLN	CA-C	-6.05	1.44	1.52
8	P	1363	SER	C-N	6.05	1.42	1.33
2	0	1001	ILE	CA-CB	-6.05	1.47	1.54
2	0	1337	MET	CA-C	-6.05	1.45	1.52
8	P	1452	SER	CA-CB	6.05	1.62	1.53
9	Q	631	ALA	CA-CB	6.05	1.62	1.53
8	P	814	ASP	N-CA	-6.05	1.38	1.46
7	M	1600	LEU	CA-C	-6.04	1.44	1.52
4	G	699	TYR	CA-CB	6.04	1.63	1.53
8	P	1021	THR	C-N	6.04	1.41	1.33
2	0	1096	GLN	CA-C	-6.04	1.45	1.52
3	1	1045	SER	C-O	-6.04	1.17	1.24
8	P	562	TRP	NE1-CE2	6.04	1.44	1.37
3	1	602	ALA	CA-CB	-6.04	1.44	1.53
7	O	957	ALA	CA-C	-6.04	1.44	1.52
3	Z	602	ALA	CA-CB	-6.04	1.44	1.53
8	N	448	ILE	CA-CB	6.04	1.62	1.54
3	1	201	ILE	CA-C	-6.04	1.46	1.52
3	1	1096	ASN	CA-CB	6.04	1.62	1.53
8	P	1195	GLN	N-CA	-6.04	1.39	1.46
3	Z	540	VAL	C-N	6.04	1.42	1.33
8	P	1499	LEU	CA-CB	6.04	1.62	1.53
5	E	446	ARG	NE-CZ	6.04	1.39	1.33
8	N	1300	GLY	CA-C	-6.04	1.44	1.51
9	R	148	TRP	CA-CB	6.04	1.62	1.53
9	R	352	VAL	CA-C	-6.04	1.45	1.52
5	K	447	SER	CA-CB	6.04	1.63	1.53
2	Y	376	THR	CA-C	-6.03	1.45	1.52
2	Y	1058	ASN	CA-CB	6.03	1.62	1.53
7	O	1539	ILE	C-N	6.03	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	P	961	GLU	CA-C	6.03	1.60	1.52
7	M	423	LEU	C-N	6.03	1.41	1.33
9	R	274	GLY	C-N	6.03	1.41	1.33
3	1	884	ILE	CA-C	-6.03	1.45	1.52
3	Z	577	PHE	C-N	6.03	1.42	1.33
3	1	577	PHE	C-N	6.03	1.42	1.33
9	T	258	LYS	N-CA	6.03	1.53	1.46
5	E	529	LYS	CA-CB	6.03	1.63	1.53
7	M	211	ASP	CA-C	-6.03	1.44	1.52
8	N	1195	GLN	N-CA	-6.03	1.39	1.46
7	M	957	ALA	CA-C	-6.02	1.44	1.52
7	M	1599	GLU	CA-C	-6.02	1.44	1.52
8	N	1296	ILE	CA-C	-6.02	1.45	1.52
7	O	1528	VAL	N-CA	6.02	1.53	1.46
8	N	935	VAL	C-O	-6.02	1.17	1.24
8	P	1296	ILE	CA-C	-6.02	1.45	1.52
8	P	1576	SER	CA-C	-6.02	1.45	1.52
7	M	277	LEU	N-CA	-6.02	1.38	1.46
5	K	529	LYS	CA-CB	6.02	1.63	1.53
7	M	523	ARG	NE-CZ	6.02	1.39	1.33
2	0	1369	ASN	CA-C	-6.02	1.45	1.52
7	O	200	LEU	C-N	6.02	1.41	1.33
9	R	275	LYS	N-CA	-6.02	1.39	1.46
9	T	759	ASP	C-N	6.02	1.41	1.33
3	Z	584	GLN	CA-C	-6.01	1.44	1.52
4	A	750	THR	CA-CB	6.01	1.62	1.53
4	J	809	ASP	C-N	6.01	1.42	1.33
2	Y	680	SER	N-CA	-6.01	1.39	1.46
2	0	680	SER	N-CA	-6.01	1.39	1.46
3	Z	1096	ASN	CA-CB	6.01	1.62	1.53
8	N	1442	ILE	N-CA	-6.01	1.39	1.46
8	N	1532	THR	N-CA	6.01	1.53	1.46
8	P	1108	LEU	C-N	6.01	1.41	1.33
9	T	122	LEU	C-N	6.01	1.41	1.33
2	Y	1314	PRO	C-N	6.01	1.42	1.33
3	Z	1106	GLU	CA-C	-6.01	1.48	1.53
7	M	610	SER	CA-C	-6.01	1.45	1.52
8	N	1021	THR	C-N	6.01	1.41	1.33
3	1	540	VAL	C-N	6.01	1.42	1.33
9	T	141	ASN	N-CA	-6.01	1.39	1.46
3	Z	813	ASN	C-N	6.01	1.41	1.33
3	Z	1042	ARG	NE-CZ	6.01	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	1323	TYR	C-N	6.01	1.41	1.33
2	0	1058	ASN	CA-CB	6.01	1.62	1.53
9	S	631	ALA	CA-CB	6.01	1.62	1.53
3	Z	201	ILE	CA-C	-6.00	1.46	1.52
9	S	71	TYR	CA-C	-6.00	1.45	1.53
7	O	306	VAL	CA-CB	6.00	1.62	1.54
7	O	610	SER	CA-C	-6.00	1.45	1.52
9	T	436	LEU	CA-C	-6.00	1.45	1.52
8	N	515	ASN	CA-C	-6.00	1.45	1.52
6	L	326	LEU	C-N	6.00	1.41	1.33
3	Z	1045	SER	C-O	-6.00	1.17	1.24
3	Z	1227	GLN	N-CA	-6.00	1.38	1.46
4	A	696	SER	N-CA	-6.00	1.39	1.46
3	1	1153	LEU	N-CA	-6.00	1.39	1.46
3	1	1227	GLN	N-CA	-6.00	1.38	1.46
3	1	1144	SER	CA-C	6.00	1.60	1.52
2	Y	896	MET	C-N	6.00	1.41	1.33
7	O	606	VAL	C-N	6.00	1.41	1.33
3	Z	1153	LEU	N-CA	-5.99	1.39	1.46
7	M	803	ALA	CA-C	-5.99	1.46	1.53
9	R	75	ASN	N-CA	-5.99	1.39	1.46
2	0	269	ASP	N-CA	-5.99	1.38	1.46
3	1	441	ARG	CD-NE	5.99	1.54	1.46
11	X	270	ALA	N-CA	5.99	1.57	1.46
3	Z	1011	ILE	CA-CB	-5.99	1.47	1.54
3	Z	1348	LYS	N-CA	-5.99	1.39	1.46
8	N	1503	VAL	C-N	5.99	1.41	1.33
9	S	561	THR	C-O	-5.99	1.16	1.24
7	O	705	ASP	C-N	5.99	1.41	1.33
7	M	606	VAL	C-N	5.99	1.41	1.33
8	N	773	LEU	CB-CG	5.99	1.65	1.53
7	O	803	ALA	CA-C	-5.99	1.46	1.53
8	P	515	ASN	CA-C	-5.99	1.45	1.52
5	E	447	SER	CA-CB	5.99	1.63	1.53
2	0	1261	ARG	NE-CZ	5.99	1.39	1.33
7	O	211	ASP	CA-C	-5.99	1.44	1.52
8	N	1441	GLN	CA-CB	5.98	1.62	1.53
2	Y	269	ASP	N-CA	-5.98	1.38	1.46
7	M	99	ALA	C-N	5.98	1.41	1.33
7	M	1567	GLU	CA-CB	5.98	1.61	1.53
8	N	117	LEU	N-CA	-5.98	1.39	1.46
8	N	1257	LEU	CA-C	-5.98	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	814	LEU	N-CA	5.98	1.53	1.46
8	P	1441	GLN	CA-CB	5.98	1.62	1.53
3	Z	947	LEU	CA-CB	5.98	1.62	1.53
3	1	826	LEU	CA-CB	5.98	1.62	1.53
3	1	1323	TYR	C-N	5.98	1.41	1.33
7	O	637	ASP	CA-C	-5.98	1.45	1.52
8	P	773	LEU	CB-CG	5.98	1.65	1.53
5	E	473	ILE	C-N	5.98	1.42	1.33
8	P	1257	LEU	CA-C	-5.98	1.45	1.52
8	N	1158	TYR	C-N	5.98	1.42	1.33
2	0	971	ILE	CA-CB	-5.98	1.47	1.54
4	G	696	SER	N-CA	-5.98	1.39	1.46
7	O	1600	LEU	CA-C	-5.98	1.44	1.52
3	Z	498	ALA	C-N	5.98	1.41	1.33
3	Z	1349	ASP	CA-C	-5.98	1.45	1.52
2	Y	400	ARG	N-CA	-5.97	1.39	1.46
7	M	306	VAL	CA-CB	5.97	1.62	1.54
9	Q	561	THR	C-O	-5.97	1.16	1.24
7	O	29	LEU	N-CA	-5.97	1.40	1.46
7	M	312	SER	N-CA	5.97	1.53	1.46
9	R	237	GLU	N-CA	-5.97	1.39	1.46
2	0	1314	PRO	C-N	5.97	1.42	1.33
3	1	1106	GLU	CA-C	-5.97	1.48	1.53
7	O	312	SER	N-CA	5.97	1.53	1.46
7	O	1567	GLU	CA-CB	5.97	1.61	1.53
2	Y	205	ASP	CA-C	-5.97	1.44	1.53
2	Y	1369	ASN	CA-C	-5.97	1.45	1.52
7	M	637	ASP	CA-C	-5.97	1.45	1.52
7	M	1435	LYS	CA-C	-5.97	1.45	1.52
2	0	269	ASP	CA-C	-5.97	1.45	1.53
2	0	426	VAL	N-CA	-5.97	1.39	1.46
2	0	1007	ILE	CA-C	-5.97	1.45	1.52
8	P	548	THR	C-N	5.97	1.41	1.33
3	Z	1213	LEU	N-CA	-5.97	1.38	1.46
3	Z	826	LEU	CA-CB	5.96	1.62	1.53
5	B	343	PRO	CA-C	5.96	1.58	1.52
8	P	1191	SER	CA-C	-5.96	1.45	1.52
2	Y	1001	ILE	CA-CB	-5.96	1.47	1.54
9	R	122	LEU	C-N	5.96	1.41	1.33
2	Y	1014	LYS	N-CA	-5.96	1.39	1.46
8	N	371	PHE	CA-CB	5.96	1.62	1.53
5	H	343	PRO	CA-C	5.96	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	P	690	LEU	CA-CB	5.96	1.63	1.53
9	T	275	LYS	N-CA	-5.96	1.39	1.46
7	M	435	PHE	CA-C	-5.96	1.45	1.52
8	N	1007	SER	CA-C	-5.96	1.44	1.52
11	V	350	PHE	N-CA	-5.96	1.38	1.46
3	1	639	GLU	CA-C	-5.96	1.45	1.52
3	1	1348	LYS	N-CA	-5.96	1.39	1.46
8	P	1442	ILE	N-CA	-5.96	1.39	1.46
9	T	75	ASN	N-CA	-5.96	1.39	1.46
9	T	237	GLU	N-CA	-5.96	1.39	1.46
2	Y	644	SER	CA-C	-5.96	1.45	1.52
8	P	1262	LEU	C-O	-5.96	1.17	1.24
2	Y	269	ASP	CA-C	-5.95	1.45	1.53
6	F	276	GLU	CA-CB	5.95	1.62	1.53
7	M	351	HIS	ND1-CE1	5.95	1.38	1.32
5	K	523	LEU	C-N	5.95	1.41	1.33
3	1	1039	LEU	N-CA	-5.95	1.39	1.46
7	O	99	ALA	C-N	5.95	1.41	1.33
7	M	750	TRP	N-CA	-5.95	1.37	1.46
8	P	1118	PHE	CA-CB	5.95	1.61	1.53
9	S	277	TYR	CA-C	-5.95	1.45	1.52
4	A	706	GLU	CA-CB	5.95	1.62	1.54
7	M	1022	LEU	N-CA	-5.95	1.39	1.46
6	L	461	HIS	CG-CD2	5.95	1.42	1.35
4	D	814	LEU	N-CA	5.95	1.53	1.46
8	N	142	ILE	C-N	5.95	1.41	1.33
7	O	629	SER	CA-CB	5.95	1.62	1.53
7	O	1505	HIS	C-N	-5.95	1.26	1.33
7	O	1562	ASP	CA-CB	5.94	1.62	1.53
3	Z	291	SER	N-CA	-5.94	1.38	1.46
3	Z	884	ILE	CA-C	-5.94	1.45	1.52
4	D	707	LEU	C-N	5.94	1.42	1.34
7	M	443	ILE	C-O	-5.94	1.17	1.24
3	1	965	GLY	CA-C	5.94	1.58	1.52
8	P	397	SER	CA-CB	5.94	1.62	1.53
2	Y	136	SER	CA-CB	5.94	1.63	1.53
4	A	677	SER	C-N	5.94	1.41	1.33
11	V	270	ALA	N-CA	5.94	1.57	1.46
5	E	523	LEU	C-N	5.94	1.41	1.33
7	M	29	LEU	N-CA	-5.94	1.40	1.46
3	1	1042	ARG	NE-CZ	5.94	1.39	1.33
4	G	677	SER	C-N	5.94	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	G	706	GLU	CA-CB	5.94	1.62	1.54
9	S	475	SER	C-N	5.94	1.41	1.33
3	Z	355	HIS	CB-CG	5.94	1.58	1.50
8	N	690	LEU	CA-CB	5.93	1.62	1.53
9	R	732	TRP	N-CA	-5.93	1.39	1.46
2	Y	1096	GLN	CA-C	-5.93	1.45	1.52
6	F	461	HIS	CG-CD2	5.93	1.42	1.35
8	N	548	THR	C-N	5.93	1.41	1.33
9	R	308	PHE	C-O	-5.93	1.17	1.24
7	O	435	PHE	CA-C	-5.93	1.45	1.52
9	Q	275	LYS	CA-CB	5.93	1.62	1.53
3	1	813	ASN	C-N	5.93	1.41	1.33
3	Z	1039	LEU	N-CA	-5.93	1.39	1.46
8	P	1469	LEU	CA-CB	5.93	1.63	1.53
8	N	1191	SER	CA-C	-5.93	1.45	1.52
8	N	1576	SER	CA-C	-5.93	1.45	1.52
11	V	294	ILE	CA-C	-5.92	1.45	1.52
2	0	286	GLY	CA-C	-5.92	1.45	1.51
3	1	1035	PRO	N-CD	-5.92	1.39	1.47
8	P	128	SER	C-N	5.92	1.41	1.33
8	P	142	ILE	C-N	5.92	1.41	1.33
9	T	590	LEU	C-N	5.92	1.40	1.33
9	R	75	ASN	C-N	5.92	1.42	1.33
2	Y	1007	ILE	CA-C	-5.92	1.45	1.52
3	Z	1390	LEU	CA-C	-5.92	1.44	1.52
9	Q	277	TYR	CA-C	-5.92	1.45	1.52
2	0	846	ILE	CA-CB	5.92	1.62	1.54
5	K	442	THR	C-N	5.92	1.41	1.33
7	O	443	ILE	C-O	-5.92	1.17	1.24
2	0	482	LEU	CA-C	-5.92	1.45	1.52
4	G	675	GLN	CA-C	-5.92	1.45	1.52
9	R	408	ARG	NE-CZ	5.92	1.39	1.33
3	1	947	LEU	CA-CB	5.92	1.62	1.53
7	O	191	ASP	C-N	5.92	1.41	1.33
8	P	1532	THR	N-CA	5.92	1.53	1.46
3	Z	639	GLU	CA-C	-5.92	1.45	1.52
4	A	647	GLN	CA-CB	5.92	1.63	1.53
7	M	1049	LEU	CA-C	-5.92	1.45	1.52
8	N	709	ILE	CA-C	-5.92	1.45	1.52
8	P	1393	LYS	N-CA	-5.92	1.39	1.46
9	T	226	ARG	NE-CZ	5.92	1.39	1.33
2	Y	614	LEU	N-CA	-5.92	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	Q	200	LEU	C-N	5.92	1.41	1.33
2	0	574	HIS	CA-C	-5.92	1.45	1.52
3	1	448	LEU	CA-CB	5.92	1.62	1.53
3	Z	385	ARG	NE-CZ	5.91	1.39	1.33
8	P	1503	VAL	C-N	5.91	1.41	1.33
5	H	405	ASN	CA-C	-5.91	1.45	1.52
7	M	191	ASP	C-N	5.91	1.41	1.33
7	M	1505	HIS	C-N	-5.91	1.26	1.33
8	N	205	PRO	N-CA	5.91	1.54	1.47
11	X	350	PHE	N-CA	-5.91	1.38	1.46
9	Q	726	LEU	CA-C	-5.91	1.45	1.52
2	0	256	VAL	CA-CB	-5.91	1.46	1.54
3	1	1011	ILE	CA-CB	-5.91	1.47	1.54
11	X	294	ILE	CA-C	-5.91	1.45	1.52
2	Y	1337	MET	CA-C	-5.91	1.45	1.52
7	M	629	SER	CA-CB	5.91	1.62	1.53
6	I	283	TYR	CA-CB	5.91	1.62	1.53
7	O	750	TRP	N-CA	-5.91	1.37	1.46
3	Z	1035	PRO	N-CD	-5.90	1.39	1.47
3	1	422	LEU	CA-C	-5.90	1.45	1.52
4	G	667	GLN	C-N	5.90	1.40	1.34
6	L	316	LEU	CA-C	-5.90	1.45	1.52
6	F	398	VAL	C-O	-5.90	1.17	1.24
9	R	226	ARG	NE-CZ	5.90	1.39	1.33
7	M	705	ASP	C-N	5.90	1.41	1.33
9	Q	432	ILE	CA-C	-5.90	1.44	1.52
2	0	1351	PHE	CA-C	-5.90	1.45	1.52
3	Z	1144	SER	CA-C	5.90	1.60	1.52
3	Z	277	ALA	CA-C	-5.90	1.44	1.52
7	M	200	LEU	C-N	5.90	1.41	1.33
7	M	1402	ARG	C-N	5.90	1.41	1.33
2	0	614	LEU	N-CA	-5.90	1.38	1.46
4	G	647	GLN	CA-CB	5.90	1.63	1.53
6	L	275	GLN	CA-CB	5.90	1.62	1.53
9	R	590	LEU	C-N	5.90	1.40	1.33
2	Y	763	ASP	CA-C	-5.89	1.45	1.52
3	Z	825	LEU	CA-C	-5.89	1.45	1.52
2	0	461	ARG	CD-NE	5.89	1.54	1.46
2	0	491	ARG	C-N	5.89	1.41	1.33
3	1	291	SER	N-CA	-5.89	1.38	1.46
5	H	473	ILE	CA-CB	5.89	1.62	1.54
8	N	574	HIS	ND1-CE1	5.89	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1	626	GLU	CA-CB	5.89	1.62	1.53
9	Q	777	ILE	N-CA	-5.89	1.39	1.46
3	1	825	LEU	CA-C	-5.89	1.45	1.52
3	1	948	ARG	NE-CZ	5.89	1.39	1.33
2	Y	482	LEU	CA-C	-5.89	1.45	1.52
8	N	397	SER	CA-CB	5.89	1.62	1.53
8	N	1456	ILE	C-N	5.89	1.41	1.33
2	0	193	TRP	CA-C	-5.89	1.45	1.52
2	0	1348	ARG	NE-CZ	5.89	1.39	1.33
4	G	671	LYS	N-CA	-5.89	1.39	1.46
9	Q	51	ARG	C-N	5.88	1.41	1.33
9	T	75	ASN	C-N	5.88	1.42	1.33
7	M	1562	ASP	CA-CB	5.88	1.62	1.53
9	R	523	ARG	NE-CZ	5.88	1.39	1.33
2	0	376	THR	CA-C	-5.88	1.45	1.52
2	0	763	ASP	CA-C	-5.88	1.45	1.52
8	P	1007	SER	CA-C	-5.88	1.44	1.52
9	T	567	THR	C-N	5.88	1.41	1.34
9	T	732	TRP	N-CA	-5.88	1.39	1.46
2	Y	1348	ARG	NE-CZ	5.88	1.39	1.33
2	Y	1351	PHE	CA-C	-5.88	1.45	1.52
4	D	715	GLU	C-N	5.88	1.41	1.33
8	N	52	ILE	CA-CB	-5.88	1.48	1.55
8	P	1456	ILE	C-N	5.88	1.41	1.33
9	T	352	VAL	CA-C	-5.88	1.45	1.52
4	J	667	GLN	C-N	5.88	1.40	1.33
4	J	707	LEU	C-N	5.88	1.42	1.34
5	K	446	ARG	NE-CZ	5.88	1.39	1.33
5	K	519	GLY	CA-C	-5.88	1.44	1.51
7	O	1049	LEU	CA-C	-5.88	1.45	1.52
9	S	432	ILE	CA-C	-5.88	1.44	1.52
4	A	675	GLN	CA-C	-5.88	1.45	1.52
6	C	283	TYR	CA-CB	5.88	1.62	1.53
8	N	1635	GLU	CA-CB	5.88	1.62	1.53
2	0	896	MET	C-N	5.88	1.41	1.33
9	S	275	LYS	CA-CB	5.88	1.62	1.53
5	B	405	ASN	CA-C	-5.87	1.45	1.52
8	N	503	LEU	N-CA	-5.87	1.38	1.46
8	N	677	ASN	C-N	5.87	1.42	1.33
7	O	1126	PRO	CA-C	-5.87	1.46	1.52
2	Y	426	VAL	N-CA	-5.87	1.39	1.46
7	O	1415	ARG	NE-CZ	5.87	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	P	111	HIS	ND1-CE1	5.87	1.38	1.32
8	P	205	PRO	N-CA	5.87	1.54	1.47
7	M	1453	ARG	C-O	-5.87	1.17	1.24
8	N	1476	VAL	N-CA	-5.87	1.39	1.46
8	P	371	PHE	CA-CB	5.87	1.62	1.53
3	Z	110	ILE	CA-CB	5.87	1.60	1.54
3	Z	965	GLY	CA-C	5.87	1.58	1.52
8	N	1534	TYR	CA-CB	5.87	1.63	1.53
2	0	205	ASP	CA-C	-5.87	1.44	1.53
2	0	1360	SER	CA-CB	5.87	1.62	1.53
7	O	1171	SER	CA-C	-5.87	1.45	1.52
8	P	1158	TYR	C-N	5.87	1.41	1.33
3	Z	208	LYS	C-N	5.87	1.41	1.33
8	P	677	ASN	C-N	5.87	1.42	1.33
8	P	1567	GLN	C-N	5.87	1.41	1.33
9	S	200	LEU	C-N	5.87	1.40	1.33
7	M	125	HIS	N-CA	-5.87	1.39	1.46
8	N	128	SER	C-N	5.87	1.41	1.33
2	0	1253	GLN	C-O	-5.87	1.17	1.24
3	1	355	HIS	ND1-CE1	5.87	1.38	1.32
7	O	1435	LYS	CA-C	-5.87	1.45	1.52
2	Y	1073	SER	CA-CB	5.86	1.63	1.53
2	0	1073	SER	CA-CB	5.86	1.63	1.53
2	0	1078	LYS	C-N	5.86	1.41	1.34
7	O	50	GLN	CA-CB	5.86	1.62	1.53
7	O	1402	ARG	C-N	5.86	1.41	1.33
8	P	574	HIS	ND1-CE1	5.86	1.38	1.32
3	Z	448	LEU	CA-CB	5.86	1.62	1.53
3	Z	1321	LEU	CA-CB	5.86	1.62	1.53
7	M	1415	ARG	NE-CZ	5.86	1.39	1.33
8	N	111	HIS	ND1-CE1	5.86	1.38	1.32
8	N	1127	ASN	CA-CB	5.86	1.62	1.53
8	P	503	LEU	N-CA	-5.86	1.38	1.46
9	S	777	ILE	N-CA	-5.86	1.39	1.46
7	M	356	ILE	CA-C	-5.86	1.46	1.52
3	1	355	HIS	CB-CG	5.86	1.58	1.50
7	O	356	ILE	CA-C	-5.86	1.46	1.52
8	P	1635	GLU	CA-CB	5.86	1.62	1.53
9	T	74	ALA	CA-CB	5.86	1.62	1.53
11	X	393	GLU	CA-C	-5.86	1.45	1.52
2	Y	1078	LYS	C-N	5.86	1.41	1.34
5	B	473	ILE	CA-CB	5.86	1.62	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	E	349	PRO	C-N	5.86	1.41	1.33
7	M	50	GLN	CA-CB	5.86	1.62	1.53
7	M	713	PHE	CA-CB	5.86	1.62	1.53
8	N	380	THR	C-N	5.86	1.41	1.33
3	1	498	ALA	C-N	5.86	1.41	1.33
7	O	1599	GLU	CA-C	-5.86	1.44	1.52
8	P	117	LEU	N-CA	-5.86	1.39	1.46
2	Y	491	ARG	C-N	5.86	1.41	1.33
3	Z	984	VAL	N-CA	-5.86	1.39	1.46
9	S	51	ARG	C-N	5.86	1.41	1.33
9	S	636	ARG	CD-NE	5.86	1.54	1.46
3	Z	1038	SER	N-CA	5.85	1.53	1.46
8	N	1185	GLU	N-CA	-5.85	1.39	1.46
8	N	1365	ARG	NE-CZ	5.85	1.39	1.33
7	O	830	TYR	C-N	5.85	1.41	1.33
9	S	540	ASN	N-CA	-5.85	1.39	1.46
9	T	523	ARG	NE-CZ	5.85	1.39	1.33
6	F	275	GLN	CA-CB	5.85	1.62	1.53
9	R	74	ALA	CA-CB	5.85	1.62	1.53
3	1	984	VAL	N-CA	-5.85	1.39	1.46
5	E	442	THR	C-N	5.85	1.41	1.33
8	N	1528	GLN	N-CA	-5.85	1.39	1.46
9	R	611	LEU	CA-C	-5.85	1.44	1.52
2	0	136	SER	CA-CB	5.85	1.63	1.53
2	0	1014	LYS	N-CA	-5.85	1.39	1.46
3	1	277	ALA	CA-C	-5.85	1.45	1.52
8	P	709	ILE	CA-C	-5.85	1.45	1.52
8	P	1242	SER	CA-C	-5.85	1.45	1.53
7	M	1408	LEU	CA-C	-5.85	1.45	1.52
8	N	438	SER	C-N	5.85	1.41	1.33
6	L	398	VAL	C-O	-5.85	1.17	1.24
8	P	199	ILE	CA-CB	-5.85	1.47	1.54
7	M	242	ALA	CA-CB	5.85	1.62	1.53
9	Q	475	SER	C-N	5.85	1.41	1.33
6	F	316	LEU	CA-C	-5.84	1.45	1.52
9	Q	432	ILE	CA-CB	-5.84	1.46	1.54
8	P	353	ALA	CA-CB	5.84	1.62	1.53
8	P	438	SER	C-N	5.84	1.41	1.33
7	O	713	PHE	CA-CB	5.84	1.62	1.53
7	O	979	LYS	C-N	5.84	1.41	1.33
7	M	642	PHE	C-N	5.84	1.41	1.33
2	0	257	PHE	C-N	5.84	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	1180	GLU	CA-C	-5.84	1.45	1.53
3	Z	1342	GLU	CA-CB	5.84	1.62	1.53
7	M	916	ILE	N-CA	5.84	1.53	1.46
9	R	351	GLN	C-O	-5.84	1.17	1.24
3	1	1038	SER	N-CA	5.84	1.53	1.46
3	1	1180	GLU	CA-C	-5.84	1.45	1.53
2	Y	846	ILE	CA-CB	5.83	1.62	1.54
5	K	473	ILE	C-N	5.83	1.42	1.33
7	O	103	LYS	CA-C	-5.83	1.45	1.52
7	M	1126	PRO	CA-C	-5.83	1.46	1.52
9	R	130	ASN	C-N	5.83	1.41	1.33
9	T	130	ASN	C-N	5.83	1.41	1.33
8	N	1108	LEU	C-N	5.83	1.41	1.33
7	O	47	SER	N-CA	-5.83	1.39	1.46
8	N	321	ILE	CA-C	5.83	1.60	1.52
7	O	1036	PRO	C-N	5.83	1.41	1.33
2	Y	574	HIS	CA-C	-5.83	1.45	1.52
2	Y	792	THR	CA-C	-5.83	1.45	1.52
3	Z	1177	VAL	C-N	5.83	1.41	1.33
3	1	222	LEU	N-CA	5.83	1.53	1.46
2	Y	1253	GLN	C-O	-5.83	1.17	1.24
7	M	830	TYR	C-N	5.83	1.41	1.33
8	N	480	ASP	C-N	5.83	1.41	1.33
7	O	1108	ARG	C-O	-5.83	1.17	1.24
9	S	242	LEU	CA-C	-5.83	1.44	1.52
2	Y	1261	ARG	NE-CZ	5.82	1.39	1.33
8	P	52	ILE	CA-CB	-5.82	1.48	1.55
9	T	170	ASP	N-CA	-5.82	1.39	1.45
2	0	792	THR	CA-C	-5.82	1.45	1.52
3	1	1373	ASP	CA-C	-5.82	1.46	1.52
7	O	1022	LEU	N-CA	-5.82	1.39	1.46
7	M	19	GLU	N-CA	-5.82	1.39	1.46
7	M	640	PHE	CA-CB	5.82	1.62	1.53
3	1	385	ARG	NE-CZ	5.82	1.39	1.33
3	1	1390	LEU	CA-C	-5.82	1.45	1.52
7	O	242	ALA	CA-CB	5.82	1.62	1.53
8	P	1365	ARG	NE-CZ	5.82	1.39	1.33
3	Z	363	VAL	CA-C	5.82	1.59	1.52
5	E	519	GLY	CA-C	-5.82	1.44	1.51
2	0	1131	ILE	C-N	5.82	1.40	1.33
7	O	1290	ILE	CA-CB	5.82	1.61	1.54
8	N	1124	ASP	C-N	-5.82	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	V	393	GLU	CA-C	-5.82	1.45	1.52
7	O	1423	SER	C-N	5.82	1.41	1.33
2	Y	1457	LYS	CA-C	-5.82	1.45	1.52
7	O	125	HIS	N-CA	-5.82	1.39	1.46
7	O	1494	ASN	CA-CB	5.82	1.62	1.53
2	Y	257	PHE	C-N	5.81	1.41	1.33
8	N	353	ALA	CA-CB	5.81	1.62	1.53
9	R	577	ARG	C-N	5.81	1.41	1.33
9	T	577	ARG	C-N	5.81	1.41	1.33
3	Z	355	HIS	ND1-CE1	5.81	1.38	1.32
8	N	1393	LYS	N-CA	-5.81	1.39	1.46
8	N	1469	LEU	CA-CB	5.81	1.63	1.53
8	P	1476	VAL	N-CA	-5.81	1.39	1.46
9	T	741	LEU	C-N	5.81	1.42	1.34
7	M	1036	PRO	C-N	5.81	1.41	1.33
3	1	1321	LEU	CA-CB	5.81	1.62	1.53
3	1	1342	GLU	CA-CB	5.81	1.62	1.53
9	S	250	ASN	CA-C	-5.81	1.45	1.52
3	Z	626	GLU	CA-CB	5.81	1.62	1.53
3	Z	1101	TYR	CA-CB	5.81	1.62	1.53
4	A	667	GLN	C-N	5.81	1.40	1.34
7	M	431	PHE	CA-C	-5.81	1.45	1.52
2	0	574	HIS	CG-CD2	5.81	1.42	1.35
3	1	1083	TYR	CA-CB	5.81	1.62	1.53
7	O	452	LYS	CA-C	-5.81	1.45	1.52
8	P	77	ASN	CA-CB	5.81	1.62	1.53
6	L	328	GLN	C-N	5.81	1.41	1.33
9	S	726	LEU	CA-C	-5.81	1.45	1.52
2	Y	1360	SER	CA-CB	5.80	1.62	1.53
3	Z	222	LEU	N-CA	5.80	1.53	1.46
9	S	665	LEU	CA-CB	5.80	1.62	1.53
7	M	979	LYS	C-N	5.80	1.41	1.33
7	M	1069	ASP	CA-CB	5.80	1.62	1.53
9	Q	533	ARG	CA-C	-5.80	1.45	1.52
9	R	567	THR	C-N	5.80	1.41	1.34
5	H	351	GLN	C-N	5.80	1.41	1.33
8	P	1534	TYR	CA-CB	5.80	1.63	1.53
2	Y	1112	LEU	C-N	5.80	1.41	1.33
4	D	667	GLN	C-N	5.80	1.40	1.33
7	M	1071	ALA	C-O	-5.80	1.19	1.24
7	M	1364	TYR	C-N	5.80	1.41	1.33
3	1	208	LYS	C-N	5.80	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	O	1408	LEU	CA-C	-5.80	1.45	1.52
11	X	378	ARG	CD-NE	5.80	1.54	1.46
9	Q	608	GLN	N-CA	5.80	1.52	1.46
6	C	348	GLN	CA-CB	5.80	1.62	1.53
8	P	480	ASP	C-N	5.80	1.41	1.33
9	S	432	ILE	CA-CB	-5.80	1.46	1.54
7	M	1217	THR	N-CA	-5.79	1.39	1.46
7	O	91	LEU	N-CA	-5.79	1.38	1.46
2	Y	461	ARG	CD-NE	5.79	1.54	1.46
4	A	671	LYS	N-CA	-5.79	1.39	1.46
5	B	361	ARG	C-N	5.79	1.41	1.33
7	M	1171	SER	CA-C	-5.79	1.45	1.52
7	M	1494	ASN	CA-CB	5.79	1.62	1.53
9	Q	636	ARG	CD-NE	5.79	1.54	1.46
2	0	1112	LEU	C-N	5.79	1.41	1.33
3	1	1136	ARG	N-CA	-5.79	1.39	1.46
9	S	533	ARG	CA-C	-5.79	1.45	1.52
3	Z	1247	ASN	N-CA	-5.79	1.38	1.46
3	1	1247	ASN	N-CA	-5.79	1.38	1.46
4	A	764	SER	N-CA	-5.79	1.39	1.46
9	R	741	LEU	C-N	5.79	1.42	1.34
3	1	110	ILE	CA-CB	5.79	1.60	1.54
9	T	611	LEU	CA-C	-5.79	1.44	1.52
2	Y	193	TRP	CA-C	-5.79	1.45	1.52
3	Z	593	GLN	N-CA	-5.79	1.39	1.46
3	1	1101	TYR	CA-CB	5.79	1.62	1.53
8	N	199	ILE	CA-CB	-5.79	1.47	1.54
8	N	860	ALA	CA-CB	-5.79	1.44	1.53
8	N	910	ALA	CA-CB	5.79	1.61	1.53
8	P	819	THR	N-CA	-5.79	1.39	1.46
5	B	358	LEU	CA-CB	5.78	1.62	1.53
9	S	709	LYS	C-N	5.78	1.41	1.33
8	P	1127	ASN	CA-CB	5.78	1.62	1.53
2	Y	1131	ILE	C-N	5.78	1.40	1.33
3	Z	1136	ARG	N-CA	-5.78	1.39	1.46
3	Z	792	SER	CA-C	5.78	1.60	1.52
4	J	715	GLU	C-N	5.78	1.41	1.33
7	O	251	ASP	N-CA	-5.78	1.39	1.46
7	O	1069	ASP	CA-CB	5.78	1.62	1.53
8	P	321	ILE	CA-C	5.78	1.60	1.52
8	P	1553	GLN	C-N	5.78	1.41	1.33
9	T	423	LYS	C-N	5.78	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	R	718	LEU	CA-C	-5.77	1.45	1.52
7	O	1217	THR	N-CA	-5.77	1.39	1.46
8	P	1528	GLN	N-CA	-5.77	1.39	1.46
7	M	91	LEU	N-CA	-5.77	1.39	1.46
7	M	1243	GLU	N-CA	-5.77	1.39	1.46
8	P	1185	GLU	N-CA	-5.77	1.39	1.46
3	Z	299	SER	CA-CB	5.77	1.63	1.53
7	M	362	ASP	CA-C	-5.77	1.45	1.52
3	1	593	GLN	N-CA	-5.77	1.39	1.46
5	K	349	PRO	C-N	5.77	1.40	1.33
7	O	613	LEU	C-N	5.77	1.41	1.33
7	O	642	PHE	C-N	5.77	1.41	1.33
8	P	1297	LYS	C-N	5.77	1.41	1.33
8	P	1585	LEU	C-N	5.77	1.41	1.33
2	Y	1174	LEU	C-N	5.77	1.42	1.34
3	Z	422	LEU	CA-C	-5.77	1.45	1.52
6	F	328	GLN	C-N	5.77	1.41	1.33
8	N	1297	LYS	C-N	5.77	1.41	1.33
3	1	108	THR	CA-C	5.77	1.60	1.52
7	O	1453	ARG	C-O	-5.77	1.17	1.24
7	M	103	LYS	CA-C	-5.77	1.45	1.52
2	Y	1209	LYS	CA-C	-5.76	1.47	1.53
7	M	1108	ARG	C-O	-5.76	1.17	1.24
9	Q	483	LEU	CA-C	-5.76	1.45	1.52
3	1	1323	TYR	C-O	-5.76	1.17	1.24
7	O	19	GLU	N-CA	-5.76	1.39	1.46
7	O	1364	TYR	C-N	5.76	1.41	1.33
8	P	134	ARG	CD-NE	5.76	1.54	1.46
8	P	982	ILE	CA-C	-5.76	1.45	1.52
7	M	1493	LYS	CA-C	5.76	1.60	1.52
8	N	238	SER	C-O	-5.76	1.17	1.24
7	O	1502	THR	C-N	5.76	1.41	1.33
3	1	84	GLY	N-CA	5.76	1.50	1.45
7	M	616	VAL	CA-C	5.76	1.59	1.52
8	N	134	ARG	CD-NE	5.76	1.54	1.46
3	1	363	VAL	CA-C	5.76	1.59	1.52
3	1	1177	VAL	C-N	5.76	1.41	1.33
7	O	830	TYR	CA-CB	5.76	1.62	1.53
8	P	480	ASP	CA-CB	5.76	1.61	1.53
8	P	860	ALA	CA-CB	-5.76	1.44	1.53
7	M	613	LEU	C-N	5.76	1.41	1.33
8	N	1006	ASP	N-CA	-5.76	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	Q	405	ASP	C-N	-5.76	1.26	1.34
2	0	1453	HIS	CB-CG	5.76	1.58	1.50
8	P	103	MET	C-N	5.76	1.41	1.33
3	1	299	SER	CA-CB	5.76	1.63	1.53
3	1	759	ILE	C-N	5.76	1.41	1.33
7	O	640	PHE	CA-CB	5.76	1.62	1.53
8	P	380	THR	C-N	5.76	1.41	1.33
8	P	1420	VAL	CA-CB	-5.76	1.47	1.54
2	Y	574	HIS	CG-CD2	5.75	1.42	1.35
2	Y	1449	THR	N-CA	-5.75	1.39	1.46
6	C	348	GLN	C-N	5.75	1.41	1.34
7	M	208	LYS	C-N	5.75	1.41	1.33
8	N	541	GLN	C-N	5.75	1.42	1.33
8	N	592	ILE	CA-C	-5.75	1.45	1.52
2	0	1449	THR	N-CA	-5.75	1.39	1.46
3	Z	811	LEU	CA-CB	5.75	1.62	1.53
9	R	114	ARG	CA-C	-5.75	1.45	1.52
3	1	792	SER	CA-C	5.75	1.60	1.52
9	T	626	GLN	N-CA	-5.75	1.39	1.46
3	Z	1090	LYS	CA-CB	5.75	1.61	1.53
8	N	496	LEU	CA-C	-5.75	1.45	1.52
9	Q	577	ARG	CA-C	-5.75	1.45	1.52
8	P	541	GLN	C-N	5.75	1.42	1.33
9	S	390	LEU	N-CA	-5.75	1.39	1.46
11	X	355	TRP	N-CA	-5.75	1.38	1.45
7	M	1057	GLU	C-N	5.75	1.41	1.33
9	Q	662	SER	CA-C	-5.75	1.45	1.52
9	Q	709	LYS	C-N	5.75	1.41	1.33
9	R	322	ILE	CA-C	-5.75	1.45	1.52
9	R	423	LYS	C-N	5.75	1.41	1.33
7	O	668	ARG	NE-CZ	5.75	1.39	1.33
9	S	662	SER	CA-C	-5.75	1.45	1.52
3	Z	272	ILE	N-CA	-5.75	1.39	1.46
7	O	513	TRP	C-N	5.75	1.41	1.33
7	O	1493	LYS	CA-C	5.75	1.60	1.52
8	P	910	ALA	CA-CB	5.75	1.61	1.53
9	T	408	ARG	NE-CZ	5.75	1.39	1.33
8	N	1567	GLN	C-N	5.75	1.41	1.33
4	G	764	SER	N-CA	-5.75	1.39	1.46
7	O	582	PHE	CA-C	-5.75	1.45	1.52
9	S	483	LEU	CA-C	-5.74	1.45	1.52
9	T	701	GLY	CA-C	-5.74	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	1373	ASP	CA-C	-5.74	1.46	1.52
5	E	390	HIS	CG-CD2	5.74	1.42	1.35
8	N	1553	GLN	C-N	5.74	1.41	1.33
2	0	1418	THR	C-N	5.74	1.41	1.33
3	1	811	LEU	CA-CB	5.74	1.62	1.53
7	M	38	ASN	CA-CB	5.74	1.61	1.53
9	Q	665	LEU	CA-CB	5.74	1.62	1.53
2	0	409	ALA	CA-C	-5.74	1.45	1.52
2	0	1209	LYS	CA-C	-5.74	1.47	1.53
7	O	916	ILE	N-CA	5.74	1.53	1.46
7	O	1300	LEU	CA-C	-5.74	1.45	1.52
7	M	452	LYS	CA-C	-5.74	1.45	1.52
7	M	1360	LEU	CA-CB	5.74	1.62	1.53
9	Q	397	HIS	CA-CB	5.74	1.63	1.54
8	P	1124	ASP	C-N	-5.74	1.26	1.33
2	0	1012	ARG	NE-CZ	5.74	1.39	1.33
8	P	438	SER	N-CA	-5.74	1.38	1.46
8	P	1356	LEU	N-CA	-5.74	1.39	1.46
3	Z	108	THR	CA-C	5.74	1.60	1.52
5	B	351	GLN	C-N	5.74	1.41	1.33
7	M	97	THR	C-N	5.74	1.41	1.33
9	S	405	ASP	C-N	-5.74	1.26	1.34
2	Y	769	ARG	CA-C	-5.73	1.45	1.52
2	0	1281	THR	C-N	5.73	1.41	1.33
3	1	1090	LYS	CA-CB	5.73	1.61	1.53
3	Z	163	MET	CA-CB	5.73	1.63	1.53
9	Q	242	LEU	CA-C	-5.73	1.45	1.52
7	O	770	ILE	CA-C	-5.73	1.45	1.52
2	Y	1281	THR	C-N	5.73	1.41	1.33
8	N	111	HIS	CB-CG	5.73	1.58	1.50
5	H	358	LEU	CA-CB	5.73	1.62	1.53
7	O	97	THR	C-N	5.73	1.41	1.33
9	T	283	LEU	C-N	5.73	1.41	1.33
9	T	645	GLN	C-O	-5.73	1.17	1.24
7	M	496	SER	C-N	5.73	1.41	1.33
2	0	1269	ALA	C-N	5.73	1.40	1.33
7	O	1071	ALA	C-O	-5.73	1.19	1.24
8	P	1589	LEU	CA-C	5.73	1.59	1.52
5	E	377	ASN	CA-C	-5.73	1.45	1.52
7	M	513	TRP	C-N	5.73	1.41	1.33
7	M	702	LYS	N-CA	-5.73	1.38	1.45
7	M	830	TYR	CA-CB	5.73	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	R	618	GLU	CA-C	5.73	1.60	1.52
11	V	378	ARG	CD-NE	5.73	1.54	1.46
2	0	769	ARG	CA-C	-5.73	1.45	1.52
7	M	668	ARG	NE-CZ	5.73	1.39	1.33
9	Q	250	ASN	CA-C	-5.73	1.45	1.52
9	R	345	LEU	C-N	5.73	1.41	1.33
11	V	355	TRP	N-CA	-5.73	1.38	1.45
6	I	348	GLN	CA-CB	5.73	1.62	1.53
9	S	482	LEU	C-N	5.73	1.41	1.33
2	Y	1418	THR	C-N	5.72	1.41	1.33
3	Z	1031	SER	N-CA	-5.72	1.39	1.46
7	M	770	ILE	CA-C	-5.72	1.45	1.52
5	H	361	ARG	C-N	5.72	1.41	1.33
9	T	636	ARG	N-CA	-5.72	1.39	1.46
7	M	239	HIS	CB-CG	5.72	1.58	1.50
3	1	1057	TYR	CA-CB	5.72	1.62	1.53
6	L	306	ASP	C-N	5.72	1.41	1.34
8	P	1006	ASP	N-CA	-5.72	1.38	1.46
9	S	608	GLN	N-CA	5.72	1.52	1.46
9	T	718	LEU	CA-C	-5.72	1.45	1.52
7	M	300	MET	CA-CB	5.72	1.63	1.53
8	N	819	THR	N-CA	-5.72	1.39	1.46
3	1	363	VAL	N-CA	-5.72	1.39	1.46
7	O	208	LYS	C-N	5.72	1.41	1.33
7	O	239	HIS	CB-CG	5.72	1.58	1.50
7	O	362	ASP	CA-C	-5.72	1.45	1.52
8	P	788	HIS	CE1-NE2	-5.72	1.26	1.32
3	Z	275	THR	N-CA	5.72	1.53	1.45
8	N	400	PHE	CA-C	-5.72	1.45	1.52
9	R	283	LEU	C-N	5.72	1.41	1.33
3	1	1081	LEU	C-O	-5.72	1.19	1.24
5	K	539	ASN	N-CA	-5.72	1.39	1.45
2	Y	1269	ALA	C-N	5.72	1.40	1.33
7	O	145	LEU	CA-CB	5.72	1.62	1.53
8	P	111	HIS	CB-CG	5.72	1.58	1.50
8	P	333	ARG	C-N	5.72	1.41	1.33
9	T	351	GLN	C-O	-5.72	1.17	1.24
8	N	1242	SER	CA-C	-5.72	1.45	1.53
5	E	539	ASN	N-CA	-5.71	1.39	1.45
7	M	676	ASP	N-CA	-5.71	1.39	1.46
7	M	1643	ARG	CD-NE	5.71	1.54	1.46
6	L	456	ARG	C-N	5.71	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	O	676	ASP	N-CA	-5.71	1.39	1.46
3	Z	364	ARG	CA-CB	5.71	1.62	1.53
7	M	145	LEU	CA-CB	5.71	1.62	1.53
8	P	496	LEU	CA-C	-5.71	1.45	1.52
9	T	618	GLU	CA-C	5.71	1.60	1.52
3	Z	1083	TYR	CA-CB	5.71	1.62	1.53
2	0	1457	LYS	CA-C	-5.71	1.45	1.52
9	S	577	ARG	CA-C	-5.71	1.45	1.52
9	R	701	GLY	CA-C	-5.71	1.45	1.52
3	Z	84	GLY	N-CA	5.71	1.50	1.45
9	Q	540	ASN	N-CA	-5.71	1.39	1.46
9	Q	682	GLU	C-N	5.71	1.42	1.34
5	H	438	SER	CA-CB	5.71	1.62	1.53
7	O	343	ASP	CA-C	-5.71	1.45	1.52
7	M	582	PHE	CA-C	-5.71	1.45	1.52
9	R	645	GLN	C-O	-5.71	1.17	1.24
4	G	649	THR	C-N	5.71	1.41	1.33
8	P	400	PHE	CA-C	-5.71	1.45	1.52
9	S	397	HIS	CA-C	-5.71	1.44	1.52
7	M	910	ARG	NE-CZ	5.71	1.39	1.33
7	M	1290	ILE	CA-CB	5.71	1.61	1.54
7	M	869	VAL	C-N	5.70	1.41	1.33
8	N	333	ARG	C-N	5.70	1.41	1.33
8	N	982	ILE	CA-C	-5.70	1.45	1.52
7	O	869	VAL	C-N	5.70	1.41	1.33
8	N	438	SER	N-CA	-5.70	1.38	1.46
8	N	1155	ASN	C-N	5.70	1.41	1.33
8	N	1589	LEU	CA-C	5.70	1.59	1.52
7	O	616	VAL	CA-C	5.70	1.59	1.52
7	O	1027	GLN	CA-CB	5.70	1.61	1.53
3	Z	933	ASP	N-CA	-5.70	1.39	1.46
3	Z	1057	TYR	CA-CB	5.70	1.62	1.53
6	L	322	THR	CA-C	-5.70	1.45	1.52
7	O	431	PHE	CA-C	-5.70	1.45	1.52
2	Y	633	THR	C-N	5.70	1.41	1.33
7	O	1659	ASN	N-CA	-5.70	1.39	1.46
5	E	436	MET	CA-C	-5.70	1.45	1.52
6	F	300	ASP	C-N	5.70	1.42	1.33
7	M	453	ILE	C-N	5.70	1.41	1.33
8	N	683	ASP	C-N	5.70	1.41	1.33
3	1	440	ARG	NE-CZ	5.70	1.39	1.33
3	1	1049	ASN	N-CA	-5.70	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	800	HIS	ND1-CE1	5.69	1.38	1.32
7	M	47	SER	N-CA	-5.69	1.39	1.46
7	M	251	ASP	N-CA	-5.69	1.39	1.46
9	Q	693	ALA	N-CA	-5.69	1.39	1.46
8	P	904	LEU	CA-C	-5.69	1.45	1.52
9	T	425	ILE	C-N	-5.69	1.28	1.33
3	Z	357	LEU	C-N	5.69	1.41	1.33
4	A	649	THR	C-N	5.69	1.41	1.33
8	P	238	SER	C-O	-5.69	1.17	1.24
2	Y	1012	ARG	NE-CZ	5.69	1.39	1.33
8	P	1111	HIS	CA-CB	5.69	1.62	1.53
9	Q	777	ILE	C-N	5.69	1.41	1.33
8	P	1032	ILE	CA-CB	5.69	1.61	1.54
3	Z	934	LEU	CA-CB	5.69	1.62	1.53
7	M	1229	ASN	N-CA	-5.69	1.39	1.46
8	N	1243	ASP	N-CA	-5.69	1.39	1.46
9	R	612	HIS	CE1-NE2	-5.69	1.26	1.32
5	H	509	ILE	N-CA	-5.69	1.39	1.46
8	P	1243	ASP	N-CA	-5.69	1.39	1.46
2	Y	778	THR	CA-C	-5.69	1.45	1.52
2	Y	787	ARG	CD-NE	5.69	1.54	1.46
8	N	211	GLN	N-CA	-5.69	1.39	1.46
8	N	1585	LEU	C-N	5.69	1.41	1.33
3	Z	1323	TYR	C-O	-5.68	1.17	1.24
7	M	343	ASP	CA-C	-5.68	1.45	1.52
5	K	377	ASN	CA-C	-5.68	1.45	1.52
9	Q	397	HIS	CA-C	-5.68	1.44	1.52
9	Q	706	ILE	CA-C	5.68	1.59	1.52
2	0	1376	LYS	CA-C	5.68	1.60	1.52
5	K	390	HIS	CG-CD2	5.68	1.42	1.35
7	O	910	ARG	NE-CZ	5.68	1.39	1.33
7	O	1292	ARG	CZ-NH1	5.68	1.40	1.32
7	M	421	ILE	CA-CB	-5.68	1.47	1.54
2	0	963	ILE	CA-C	-5.68	1.44	1.52
3	1	357	LEU	C-N	5.68	1.41	1.33
9	T	345	LEU	C-N	5.68	1.41	1.33
9	R	593	ILE	N-CA	-5.68	1.40	1.46
8	N	904	LEU	CA-C	-5.68	1.45	1.52
8	P	1397	ASN	C-N	5.68	1.41	1.33
9	T	556	TYR	N-CA	-5.68	1.39	1.46
3	Z	348	ASP	CA-CB	5.68	1.60	1.52
5	B	398	ILE	CA-C	-5.68	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	N	212	TRP	N-CA	-5.68	1.39	1.46
7	O	298	ASP	CA-CB	5.68	1.62	1.53
8	P	644	ILE	CA-C	-5.68	1.45	1.52
9	S	287	ASP	CA-CB	5.68	1.62	1.53
9	S	777	ILE	C-N	5.68	1.41	1.33
9	T	612	HIS	CE1-NE2	-5.68	1.26	1.32
3	Z	557	ASN	CA-CB	5.67	1.60	1.53
3	Z	1049	ASN	N-CA	-5.67	1.38	1.46
6	F	306	ASP	C-N	5.67	1.41	1.34
3	1	163	MET	CA-CB	5.67	1.63	1.53
7	O	453	ILE	C-N	5.67	1.41	1.33
8	P	1628	GLU	CA-C	-5.67	1.45	1.52
9	S	682	GLU	C-N	5.67	1.42	1.34
8	P	464	ALA	N-CA	-5.67	1.38	1.46
5	B	446	ARG	NE-CZ	5.67	1.39	1.33
8	N	1420	VAL	CA-CB	-5.67	1.47	1.54
7	O	1057	GLU	C-N	5.67	1.41	1.33
9	S	384	VAL	N-CA	-5.67	1.40	1.46
2	Y	659	PHE	CA-CB	5.67	1.62	1.53
9	R	610	LEU	C-N	5.67	1.42	1.33
8	P	592	ILE	CA-C	-5.67	1.45	1.52
6	F	456	ARG	C-N	5.67	1.40	1.33
9	S	223	ASN	CA-CB	5.67	1.62	1.53
8	N	398	ARG	NE-CZ	5.67	1.39	1.33
8	N	741	LYS	CA-C	-5.67	1.45	1.52
2	0	1305	SER	C-O	-5.67	1.17	1.24
7	O	1243	GLU	N-CA	-5.67	1.39	1.46
7	O	1448	GLY	CA-C	-5.67	1.43	1.52
9	T	530	ARG	NE-CZ	5.67	1.39	1.33
3	Z	1204	ASP	CA-C	-5.67	1.45	1.52
3	Z	199	HIS	ND1-CE1	5.66	1.38	1.32
3	Z	1260	SER	CA-C	-5.66	1.45	1.52
7	M	1659	ASN	N-CA	-5.66	1.39	1.46
8	N	480	ASP	CA-CB	5.66	1.61	1.53
8	N	492	ILE	N-CA	-5.66	1.40	1.46
8	N	1480	GLN	CA-C	-5.66	1.45	1.52
3	Z	1327	ARG	NE-CZ	5.66	1.39	1.33
6	L	300	ASP	C-N	5.66	1.42	1.33
2	Y	482	LEU	CA-CB	5.66	1.62	1.53
3	Z	926	ASN	C-N	5.66	1.41	1.33
3	Z	1311	PHE	CG-CD1	5.66	1.50	1.38
3	1	275	THR	N-CA	5.66	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1	926	ASN	C-N	5.66	1.41	1.33
3	1	1311	PHE	CG-CD1	5.66	1.50	1.38
3	1	933	ASP	N-CA	-5.66	1.39	1.46
9	T	610	LEU	C-N	5.66	1.42	1.33
2	0	482	LEU	CA-CB	5.66	1.62	1.53
7	O	496	SER	C-N	5.66	1.41	1.33
8	P	205	PRO	CA-CB	5.66	1.61	1.53
9	S	706	ILE	CA-C	5.66	1.59	1.52
6	F	383	LYS	CA-C	-5.65	1.45	1.52
7	O	299	THR	CA-C	-5.65	1.45	1.52
3	Z	187	ASN	C-N	5.65	1.41	1.33
3	Z	440	ARG	NE-CZ	5.65	1.39	1.33
4	A	654	HIS	C-N	5.65	1.41	1.33
8	N	788	HIS	CE1-NE2	-5.65	1.26	1.32
8	N	878	PHE	CA-CB	5.65	1.62	1.53
2	0	659	PHE	CA-CB	5.65	1.62	1.53
8	P	129	PHE	CA-C	-5.65	1.45	1.52
2	Y	963	ILE	CA-C	-5.65	1.44	1.52
2	0	297	HIS	ND1-CE1	5.65	1.38	1.32
3	1	934	LEU	CA-CB	5.65	1.62	1.53
5	K	436	MET	CA-C	-5.65	1.45	1.52
9	S	397	HIS	CA-CB	5.65	1.63	1.54
9	S	690	ARG	CZ-NH1	5.65	1.40	1.32
2	Y	409	ALA	CA-C	-5.65	1.45	1.52
7	O	702	LYS	N-CA	-5.65	1.38	1.45
8	P	1189	ASP	C-N	5.65	1.41	1.33
9	R	425	ILE	C-N	-5.65	1.28	1.33
9	R	457	TYR	CA-C	-5.65	1.45	1.52
9	R	612	HIS	CA-C	-5.65	1.45	1.52
9	R	626	GLN	N-CA	-5.65	1.39	1.46
3	1	272	ILE	N-CA	-5.65	1.39	1.46
7	O	38	ASN	CA-CB	5.65	1.61	1.53
7	O	240	LEU	C-N	5.65	1.42	1.33
9	T	612	HIS	CA-C	-5.65	1.45	1.52
3	Z	759	ILE	C-N	5.64	1.41	1.33
3	Z	825	LEU	CA-CB	5.64	1.62	1.53
7	M	298	ASP	CA-CB	5.64	1.62	1.53
7	M	1292	ARG	CZ-NH1	5.64	1.40	1.32
7	M	1502	THR	C-N	5.64	1.40	1.33
3	1	557	ASN	CA-CB	5.64	1.60	1.53
4	G	800	HIS	CA-C	-5.64	1.45	1.52
4	J	671	LYS	CA-C	-5.64	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	T	593	ILE	N-CA	-5.64	1.40	1.46
2	Y	974	ASN	C-N	5.64	1.41	1.33
5	E	398	ILE	C-N	5.64	1.41	1.33
8	N	1111	HIS	CA-CB	5.64	1.62	1.53
2	0	633	THR	C-N	5.64	1.41	1.33
2	0	1322	LEU	N-CA	-5.64	1.39	1.46
2	0	1380	ASP	CA-CB	5.64	1.63	1.53
7	O	263	LEU	C-O	-5.64	1.16	1.24
7	M	1423	SER	C-N	5.64	1.41	1.33
2	0	1007	ILE	C-N	5.64	1.41	1.33
7	O	421	ILE	CA-CB	-5.64	1.47	1.54
9	S	693	ALA	N-CA	-5.64	1.39	1.46
2	Y	1305	SER	C-O	-5.64	1.17	1.24
2	Y	1376	LYS	CA-C	5.64	1.60	1.52
4	D	775	THR	CA-C	-5.64	1.45	1.52
6	F	339	LEU	C-N	5.64	1.41	1.33
9	R	239	ILE	CA-C	-5.64	1.45	1.52
9	T	239	ILE	CA-C	-5.64	1.45	1.52
2	Y	1198	ASN	CA-C	5.63	1.60	1.52
5	B	438	SER	CA-CB	5.63	1.62	1.53
7	M	171	TYR	N-CA	-5.63	1.39	1.46
9	R	636	ARG	N-CA	-5.63	1.39	1.46
2	0	699	ALA	CA-CB	5.63	1.62	1.53
9	T	805	SER	CA-C	-5.63	1.45	1.52
7	M	957	ALA	N-CA	-5.63	1.39	1.46
2	0	778	THR	CA-C	-5.63	1.45	1.52
3	1	1327	ARG	NE-CZ	5.63	1.39	1.33
5	H	398	ILE	CA-C	-5.63	1.44	1.52
5	K	409	GLU	C-N	5.63	1.41	1.33
7	O	957	ALA	N-CA	-5.63	1.39	1.46
2	0	295	GLU	N-CA	-5.63	1.39	1.46
3	1	663	ALA	C-N	5.63	1.41	1.33
9	Q	223	ASN	CA-CB	5.63	1.62	1.53
3	1	384	ILE	CA-C	-5.63	1.46	1.52
8	N	254	SER	C-N	5.63	1.41	1.33
3	1	825	LEU	CA-CB	5.63	1.62	1.53
7	M	1448	GLY	CA-C	-5.63	1.43	1.52
7	O	1360	LEU	CA-CB	5.63	1.62	1.53
7	O	1507	ASN	C-N	5.63	1.41	1.33
8	P	1480	GLN	CA-C	-5.63	1.45	1.52
7	M	1239	PHE	N-CA	-5.62	1.39	1.46
8	N	1032	ILE	CA-CB	5.62	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	N	1628	GLU	CA-C	-5.62	1.45	1.52
5	B	363	GLN	CA-C	-5.62	1.45	1.52
8	P	212	TRP	N-CA	-5.62	1.39	1.46
9	T	272	GLU	C-O	5.62	1.30	1.24
9	Q	390	LEU	N-CA	-5.62	1.39	1.46
3	1	364	ARG	CA-CB	5.62	1.61	1.53
9	S	228	ALA	C-N	5.62	1.41	1.33
2	Y	861	SER	N-CA	-5.62	1.38	1.46
2	Y	1177	ILE	CA-C	-5.62	1.46	1.52
3	Z	431	ARG	NE-CZ	5.62	1.39	1.33
8	P	211	GLN	N-CA	-5.62	1.39	1.46
4	D	790	ASN	CA-C	5.62	1.60	1.52
2	0	852	PHE	N-CA	-5.62	1.39	1.46
8	P	1027	TRP	N-CA	5.62	1.52	1.45
2	Y	1322	LEU	N-CA	-5.62	1.39	1.46
3	1	187	ASN	C-N	5.62	1.41	1.33
3	1	383	HIS	C-N	5.62	1.40	1.33
7	O	772	ASN	C-N	5.62	1.41	1.33
2	Y	1380	ASP	CA-CB	5.61	1.62	1.53
9	R	119	GLU	CA-C	-5.61	1.45	1.52
3	Z	363	VAL	N-CA	-5.61	1.39	1.46
8	P	741	LYS	CA-C	-5.61	1.45	1.52
7	M	1027	GLN	CA-CB	5.61	1.60	1.53
8	N	600	ASN	C-N	5.61	1.40	1.34
10	U	356	LEU	C-N	5.61	1.40	1.33
2	Y	411	PRO	CA-C	5.61	1.60	1.52
8	N	32	VAL	CA-C	-5.61	1.46	1.53
8	P	882	SER	CA-CB	5.61	1.62	1.53
6	F	322	THR	CA-C	-5.61	1.45	1.52
8	P	1387	LEU	CA-C	-5.61	1.45	1.52
2	Y	471	SER	N-CA	5.61	1.53	1.46
3	Z	99	GLN	CA-CB	5.61	1.62	1.53
3	Z	131	GLY	N-CA	-5.61	1.37	1.45
4	A	800	HIS	CA-C	-5.61	1.45	1.52
7	M	1303	LEU	CA-CB	5.61	1.62	1.53
3	1	1204	ASP	CA-C	-5.61	1.45	1.52
10	W	279	ASP	CA-C	-5.61	1.44	1.52
5	E	380	LEU	CA-CB	5.60	1.62	1.53
9	T	114	ARG	CA-C	-5.60	1.45	1.52
7	M	427	THR	CA-CB	-5.60	1.44	1.53
8	N	1250	ILE	CA-CB	-5.60	1.46	1.54
3	1	217	SER	CA-C	5.60	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	K	395	ALA	CA-C	-5.60	1.45	1.52
7	O	1643	ARG	CD-NE	5.60	1.54	1.46
8	P	568	ILE	C-N	5.60	1.41	1.33
8	P	1250	ILE	CA-CB	-5.60	1.46	1.54
10	W	356	LEU	C-N	5.60	1.40	1.33
2	Y	1304	THR	C-N	5.60	1.41	1.33
8	N	1189	ASP	C-N	5.60	1.41	1.33
8	N	1397	ASN	C-N	5.60	1.41	1.33
7	O	1307	VAL	C-N	5.60	1.41	1.33
8	P	683	ASP	C-N	5.60	1.40	1.33
2	Y	1089	LEU	CA-C	-5.60	1.45	1.53
7	M	506	ASN	C-N	5.60	1.41	1.33
9	R	599	ARG	C-N	5.60	1.38	1.33
2	0	787	ARG	CD-NE	5.60	1.54	1.46
2	0	1301	ILE	CA-C	-5.60	1.45	1.52
3	1	99	GLN	CA-CB	5.60	1.62	1.53
4	G	654	HIS	C-N	5.60	1.41	1.33
5	H	435	LYS	CA-C	-5.60	1.45	1.52
7	O	300	MET	CA-CB	5.60	1.63	1.53
2	Y	699	ALA	CA-CB	5.60	1.62	1.53
7	M	707	LEU	C-N	5.60	1.41	1.33
8	N	464	ALA	N-CA	-5.60	1.38	1.46
3	Z	1081	LEU	C-O	-5.59	1.19	1.24
2	0	1089	LEU	CA-C	-5.59	1.45	1.53
6	I	348	GLN	C-N	5.59	1.41	1.34
9	T	322	ILE	CA-C	-5.59	1.45	1.52
7	M	240	LEU	C-N	5.59	1.42	1.33
8	P	1091	ASP	N-CA	-5.59	1.39	1.46
3	Z	383	HIS	C-N	5.59	1.40	1.33
3	Z	1087	ARG	CD-NE	5.59	1.54	1.46
7	M	164	LYS	N-CA	-5.59	1.39	1.46
7	M	1140	GLU	C-N	5.59	1.41	1.33
7	M	1300	LEU	CA-C	-5.59	1.45	1.52
8	N	129	PHE	CA-C	-5.59	1.45	1.52
8	N	1356	LEU	N-CA	-5.59	1.39	1.46
3	1	131	GLY	N-CA	-5.59	1.37	1.45
3	1	348	ASP	CA-CB	5.59	1.59	1.52
8	P	184	ASP	N-CA	-5.59	1.39	1.46
9	S	246	ASN	C-N	5.59	1.39	1.32
7	M	236	ALA	C-N	5.59	1.41	1.33
9	Q	666	SER	C-N	5.59	1.42	1.33
7	O	303	LYS	CA-C	-5.59	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	P	492	ILE	N-CA	-5.59	1.40	1.46
9	S	666	SER	C-N	5.59	1.42	1.33
7	O	164	LYS	N-CA	-5.59	1.39	1.46
8	P	600	ASN	C-N	5.59	1.40	1.34
8	P	608	ILE	CA-C	-5.59	1.45	1.52
9	S	755	LYS	C-N	5.59	1.41	1.34
9	T	599	ARG	C-N	5.59	1.38	1.33
5	B	509	ILE	N-CA	-5.59	1.39	1.46
7	M	355	LEU	N-CA	-5.59	1.39	1.46
10	U	279	ASP	CA-C	-5.58	1.44	1.52
2	0	411	PRO	CA-C	5.58	1.60	1.52
3	1	431	ARG	NE-CZ	5.58	1.39	1.33
7	M	263	LEU	C-O	-5.58	1.16	1.24
8	N	644	ILE	CA-C	-5.58	1.45	1.52
8	N	1211	ILE	CA-C	5.58	1.59	1.52
9	R	805	SER	CA-C	-5.58	1.45	1.52
2	0	242	MET	N-CA	-5.58	1.39	1.46
4	J	775	THR	CA-C	-5.58	1.45	1.52
7	O	1418	SER	C-N	5.58	1.41	1.33
8	P	1211	ILE	CA-C	5.58	1.59	1.52
9	T	622	THR	N-CA	-5.58	1.39	1.46
3	Z	1221	ARG	CD-NE	5.58	1.54	1.46
7	M	1418	SER	C-N	5.58	1.41	1.33
9	Q	684	ASN	CA-C	-5.58	1.48	1.52
8	N	444	ASN	CA-C	5.58	1.59	1.52
5	E	409	GLU	C-N	5.58	1.41	1.33
7	M	638	VAL	CA-C	-5.58	1.46	1.52
7	M	1507	ASN	C-N	5.58	1.41	1.33
8	N	184	ASP	N-CA	-5.58	1.39	1.46
8	N	615	LEU	N-CA	-5.58	1.39	1.46
3	1	1031	SER	N-CA	-5.58	1.39	1.46
3	1	1260	SER	CA-C	-5.58	1.45	1.52
9	T	458	SER	N-CA	-5.58	1.38	1.45
7	M	1320	GLU	CA-CB	5.58	1.62	1.53
8	N	439	LEU	N-CA	-5.58	1.39	1.46
9	Q	246	ASN	C-N	5.58	1.39	1.32
4	J	748	ALA	CA-C	-5.58	1.45	1.52
8	P	254	SER	C-N	5.58	1.40	1.33
8	P	591	MET	CA-CB	5.58	1.61	1.53
8	P	1592	GLU	CA-C	5.58	1.60	1.52
6	C	444	ILE	CA-C	5.58	1.59	1.52
2	0	861	SER	N-CA	-5.58	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	O	1239	PHE	N-CA	-5.58	1.39	1.46
7	O	1320	GLU	CA-CB	5.58	1.62	1.53
2	Y	1011	ARG	C-O	-5.57	1.17	1.24
3	Z	663	ALA	C-N	5.57	1.41	1.33
7	M	303	LYS	CA-C	-5.57	1.44	1.52
8	N	591	MET	CA-CB	5.57	1.61	1.53
8	N	1387	LEU	CA-C	-5.57	1.45	1.52
2	0	1304	THR	C-N	5.57	1.41	1.33
3	1	1160	ILE	CA-CB	5.57	1.60	1.54
5	K	398	ILE	C-N	5.57	1.41	1.33
8	P	583	LEU	C-N	5.57	1.41	1.33
7	M	1307	VAL	C-N	5.57	1.41	1.33
3	1	1263	SER	C-N	5.57	1.41	1.33
8	P	32	VAL	CA-C	-5.57	1.46	1.53
8	P	207	ASP	CA-C	-5.57	1.45	1.52
2	Y	641	VAL	CA-CB	5.57	1.61	1.53
9	Q	690	ARG	CZ-NH1	5.57	1.40	1.32
2	0	641	VAL	CA-CB	5.57	1.61	1.53
2	0	1198	ASN	CA-C	5.57	1.60	1.52
7	O	577	HIS	CE1-NE2	5.57	1.38	1.32
2	0	1138	GLU	N-CA	-5.57	1.39	1.46
9	R	301	ASN	C-N	5.57	1.41	1.33
2	0	219	PRO	C-N	5.57	1.42	1.33
5	H	348	ILE	N-CA	-5.57	1.41	1.46
5	H	363	GLN	CA-C	-5.57	1.45	1.52
9	S	160	TRP	C-N	5.57	1.41	1.33
9	T	68	LYS	N-CA	-5.57	1.39	1.46
2	Y	130	GLY	C-N	5.57	1.40	1.33
3	Z	217	SER	CA-C	5.57	1.60	1.52
3	Z	384	ILE	CA-C	-5.57	1.46	1.52
9	Q	689	ALA	C-N	5.57	1.41	1.33
5	K	422	LEU	CA-C	-5.57	1.45	1.52
7	O	638	VAL	CA-C	-5.57	1.46	1.52
7	O	670	LYS	CA-CB	5.57	1.62	1.53
7	O	171	TYR	N-CA	-5.56	1.39	1.46
5	B	462	ARG	CA-C	-5.56	1.45	1.52
4	D	748	ALA	CA-C	-5.56	1.45	1.52
7	M	210	LYS	N-CA	-5.56	1.39	1.46
2	0	974	ASN	C-N	5.56	1.41	1.33
5	H	446	ARG	NE-CZ	5.56	1.39	1.33
7	O	236	ALA	C-N	5.56	1.41	1.33
8	P	1155	ASN	C-N	5.56	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	O	1229	ASN	N-CA	-5.56	1.39	1.46
7	O	506	ASN	C-N	5.56	1.41	1.33
9	T	139	PHE	C-N	5.56	1.40	1.33
2	Y	242	MET	N-CA	-5.56	1.39	1.46
9	Q	151	PHE	CA-C	-5.56	1.45	1.52
9	Q	287	ASP	CA-CB	5.56	1.61	1.53
2	0	403	GLY	CA-C	-5.56	1.44	1.51
5	K	380	LEU	CA-CB	5.56	1.61	1.53
5	H	456	THR	CA-CB	5.56	1.62	1.53
7	O	1484	ARG	CD-NE	5.56	1.54	1.46
2	Y	219	PRO	C-N	5.55	1.42	1.33
2	Y	1323	PHE	C-N	5.55	1.41	1.33
3	Z	615	ARG	CD-NE	5.55	1.54	1.46
8	N	608	ILE	CA-C	-5.55	1.45	1.52
8	N	1273	LYS	CA-C	-5.55	1.45	1.52
2	0	302	ASP	N-CA	-5.55	1.39	1.46
3	1	615	ARG	CD-NE	5.55	1.54	1.46
8	P	615	LEU	N-CA	-5.55	1.39	1.46
9	R	458	SER	N-CA	-5.55	1.38	1.45
4	G	800	HIS	ND1-CE1	5.55	1.38	1.32
6	I	274	ARG	C-N	5.55	1.42	1.33
6	L	339	LEU	C-N	5.55	1.41	1.33
5	B	435	LYS	CA-C	-5.55	1.45	1.52
9	R	530	ARG	NE-CZ	5.55	1.39	1.33
3	1	248	ASN	CA-CB	5.55	1.61	1.53
8	P	1273	LYS	CA-C	-5.55	1.45	1.52
2	Y	375	SER	CA-CB	5.55	1.61	1.53
2	Y	1453	HIS	CB-CG	5.55	1.57	1.50
3	Z	256	THR	C-N	5.55	1.39	1.33
9	Q	518	ILE	C-N	5.55	1.40	1.33
2	0	375	SER	CA-CB	5.55	1.61	1.53
2	0	782	ARG	CD-NE	5.55	1.54	1.46
3	1	1087	ARG	CD-NE	5.55	1.54	1.46
8	P	878	PHE	CA-CB	5.55	1.61	1.53
9	T	713	ILE	CA-C	-5.55	1.45	1.52
8	P	444	ASN	CA-C	5.55	1.59	1.52
9	T	457	TYR	CA-C	-5.55	1.45	1.52
9	T	815	ILE	C-O	5.55	1.30	1.24
3	Z	1111	ALA	N-CA	-5.55	1.39	1.46
4	D	671	LYS	CA-C	-5.55	1.45	1.52
3	1	199	HIS	ND1-CE1	5.55	1.38	1.32
7	O	427	THR	CA-CB	-5.55	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	Q	160	TRP	C-N	5.54	1.41	1.33
9	Q	482	LEU	C-N	5.54	1.41	1.33
7	O	270	THR	CA-C	-5.54	1.45	1.52
5	B	456	THR	CA-CB	5.54	1.62	1.53
8	N	1193	ASN	C-O	-5.54	1.17	1.24
9	R	622	THR	N-CA	-5.54	1.39	1.46
5	K	329	HIS	ND1-CE1	5.54	1.38	1.32
2	Y	297	HIS	ND1-CE1	5.54	1.38	1.32
2	Y	1138	GLU	N-CA	-5.54	1.39	1.46
5	B	348	ILE	N-CA	-5.54	1.41	1.46
8	N	413	GLU	CA-CB	5.54	1.61	1.53
8	N	882	SER	CA-CB	5.54	1.61	1.53
9	R	68	LYS	N-CA	-5.54	1.39	1.46
8	P	143	SER	C-N	5.54	1.40	1.33
8	P	1002	SER	N-CA	-5.54	1.39	1.46
7	M	577	HIS	CE1-NE2	5.54	1.38	1.32
8	N	207	ASP	CA-C	-5.54	1.45	1.52
9	R	139	PHE	C-N	5.54	1.40	1.33
7	O	210	LYS	N-CA	-5.54	1.39	1.46
4	A	678	GLN	CA-C	-5.54	1.45	1.52
8	N	102	PHE	N-CA	-5.54	1.39	1.46
7	O	1106	PHE	CA-C	5.54	1.59	1.52
9	S	151	PHE	CA-C	-5.54	1.45	1.52
7	O	355	LEU	N-CA	-5.54	1.39	1.46
8	P	19	ALA	C-N	5.54	1.41	1.33
8	P	1342	LEU	C-N	5.54	1.40	1.33
2	Y	592	TYR	C-N	5.53	1.41	1.33
8	N	1027	TRP	N-CA	5.53	1.52	1.45
2	0	1174	LEU	C-N	5.53	1.42	1.33
7	O	1094	GLY	CA-C	-5.53	1.45	1.52
8	P	1193	ASN	C-O	-5.53	1.17	1.24
7	M	1484	ARG	CD-NE	5.53	1.53	1.46
8	N	1334	ASP	CA-CB	5.53	1.61	1.53
8	N	1592	GLU	CA-C	5.53	1.59	1.52
3	1	1111	ALA	N-CA	-5.53	1.39	1.46
2	Y	1301	ILE	CA-C	-5.53	1.45	1.52
9	R	640	SER	CA-C	-5.53	1.45	1.52
11	V	378	ARG	NE-CZ	5.53	1.39	1.33
7	O	476	ALA	CA-C	5.53	1.59	1.53
8	P	398	ARG	NE-CZ	5.53	1.39	1.33
8	P	1463	SER	C-N	5.53	1.41	1.33
3	Z	1263	SER	C-N	5.53	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	402	ARG	CA-C	-5.53	1.46	1.52
8	N	1157	GLY	C-N	5.53	1.41	1.33
7	O	468	THR	CA-CB	5.53	1.61	1.53
7	O	1303	LEU	CA-CB	5.53	1.61	1.53
3	Z	749	ARG	N-CA	-5.53	1.41	1.46
8	N	1463	SER	C-N	5.53	1.41	1.33
8	N	1586	VAL	C-N	5.53	1.40	1.33
9	Q	607	ARG	CD-NE	5.53	1.53	1.46
3	1	1350	TRP	CA-CB	5.53	1.61	1.53
9	S	607	ARG	CD-NE	5.53	1.53	1.46
3	1	256	THR	C-N	5.52	1.39	1.33
8	P	1193	ASN	CA-CB	5.52	1.61	1.53
2	Y	178	GLU	N-CA	5.52	1.53	1.46
2	Y	295	GLU	N-CA	-5.52	1.39	1.46
2	Y	302	ASP	N-CA	-5.52	1.39	1.46
7	M	1106	PHE	CA-C	5.52	1.59	1.52
9	S	508	ILE	CA-C	-5.52	1.46	1.52
7	M	1253	ARG	CZ-NH1	5.52	1.40	1.32
8	N	1002	SER	N-CA	-5.52	1.39	1.46
8	N	583	LEU	C-N	5.52	1.40	1.33
3	1	1221	ARG	CD-NE	5.52	1.53	1.46
4	G	748	ALA	N-CA	-5.52	1.39	1.46
7	O	1571	GLN	CA-CB	5.52	1.61	1.53
9	T	389	LYS	CA-C	5.52	1.59	1.52
5	E	422	LEU	CA-C	-5.52	1.45	1.52
8	N	205	PRO	CA-CB	5.52	1.60	1.53
8	N	568	ILE	C-N	5.52	1.41	1.33
2	0	1323	PHE	C-N	5.52	1.40	1.33
7	O	750	TRP	CD2-CE3	-5.52	1.31	1.40
3	Z	879	THR	C-O	-5.52	1.17	1.24
3	Z	1160	ILE	CA-CB	5.51	1.60	1.54
7	M	670	LYS	CA-CB	5.51	1.62	1.53
7	M	714	HIS	ND1-CE1	5.51	1.38	1.32
8	N	870	PRO	C-N	5.51	1.41	1.33
3	1	404	PHE	C-N	5.51	1.40	1.33
9	S	554	VAL	N-CA	-5.51	1.40	1.46
7	M	847	GLY	C-N	5.51	1.40	1.33
2	Y	1007	ILE	C-N	5.51	1.40	1.33
4	A	811	SER	CA-CB	5.51	1.61	1.53
7	M	299	THR	CA-C	-5.51	1.45	1.52
7	M	350	ARG	N-CA	-5.51	1.42	1.47
3	1	259	ASN	CA-CB	5.51	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	526	ILE	CA-CB	-5.51	1.47	1.54
8	N	499	LEU	C-N	5.51	1.41	1.33
9	Q	508	ILE	CA-C	-5.51	1.46	1.52
9	R	614	ARG	CA-C	-5.51	1.45	1.52
9	R	815	ILE	C-O	5.51	1.30	1.24
2	0	526	ILE	CA-CB	-5.51	1.47	1.54
7	O	360	LEU	CA-CB	5.51	1.62	1.53
7	O	1140	GLU	C-N	5.51	1.41	1.33
8	P	499	LEU	C-N	5.51	1.41	1.33
8	P	750	PHE	CA-CB	5.51	1.61	1.53
8	P	1334	ASP	CA-CB	5.51	1.61	1.53
9	T	119	GLU	CA-C	-5.51	1.45	1.52
3	Z	248	ASN	CA-CB	5.51	1.61	1.53
3	Z	404	PHE	C-N	5.51	1.40	1.33
8	N	103	MET	C-N	5.51	1.40	1.33
9	T	88	LYS	CA-C	-5.51	1.45	1.52
2	Y	1367	LEU	C-N	5.51	1.41	1.33
2	0	853	PHE	N-CA	-5.51	1.39	1.46
6	L	383	LYS	CA-C	-5.51	1.45	1.52
9	T	301	ASN	C-N	5.51	1.40	1.33
9	T	469	TYR	CA-C	-5.51	1.45	1.52
9	Q	673	PRO	CA-C	-5.50	1.45	1.52
2	0	417	TYR	CA-C	-5.50	1.48	1.52
4	J	701	GLU	CA-CB	5.50	1.63	1.53
9	T	611	LEU	CA-CB	5.50	1.62	1.53
2	Y	417	TYR	CA-C	-5.50	1.48	1.52
8	N	1217	ARG	CZ-NH2	5.50	1.40	1.33
8	N	1432	ARG	NE-CZ	5.50	1.39	1.33
9	Q	338	PHE	N-CA	-5.50	1.39	1.46
9	R	272	GLU	C-O	5.50	1.30	1.24
8	P	1197	VAL	C-N	5.50	1.41	1.33
8	P	1259	PHE	CA-C	-5.50	1.45	1.52
4	J	762	LEU	N-CA	-5.50	1.39	1.46
9	S	573	HIS	ND1-CE1	5.50	1.38	1.32
9	S	683	THR	CA-C	-5.50	1.46	1.52
7	M	251	ASP	C-N	5.50	1.40	1.33
8	N	1270	LYS	N-CA	-5.50	1.39	1.46
7	O	251	ASP	C-N	5.50	1.40	1.33
2	Y	1443	VAL	C-N	5.50	1.41	1.33
5	E	329	HIS	ND1-CE1	5.50	1.38	1.32
2	0	130	GLY	C-N	5.50	1.40	1.33
8	P	1157	GLY	C-N	5.50	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	S	195	SER	C-N	5.50	1.40	1.33
7	M	263	LEU	N-CA	-5.50	1.38	1.46
7	M	628	LYS	N-CA	-5.50	1.39	1.46
8	N	523	SER	C-N	5.50	1.41	1.33
3	1	879	THR	C-O	-5.50	1.17	1.24
8	P	523	SER	C-N	5.50	1.41	1.33
2	Y	852	PHE	N-CA	-5.50	1.39	1.46
7	M	1305	SER	C-N	5.50	1.41	1.33
8	N	750	PHE	CA-CB	5.50	1.61	1.53
9	Q	561	THR	N-CA	-5.50	1.39	1.46
9	Q	823	ARG	CZ-NH1	5.50	1.40	1.32
9	R	556	TYR	N-CA	-5.50	1.39	1.46
9	R	713	ILE	CA-C	-5.50	1.45	1.52
3	Z	1350	TRP	CA-CB	5.49	1.61	1.53
2	0	1443	VAL	C-N	5.49	1.41	1.33
7	M	948	LEU	C-O	-5.49	1.17	1.24
2	0	471	SER	N-CA	5.49	1.53	1.46
6	C	274	ARG	C-N	5.49	1.42	1.33
4	D	762	LEU	N-CA	-5.49	1.39	1.46
8	N	782	VAL	N-CA	5.49	1.52	1.45
9	Q	755	LYS	CA-CB	5.49	1.61	1.53
2	0	508	LYS	CA-C	-5.49	1.45	1.52
7	O	150	PHE	N-CA	-5.49	1.39	1.46
7	O	780	ILE	CA-CB	-5.49	1.48	1.54
9	S	561	THR	N-CA	-5.49	1.39	1.46
3	Z	1013	LYS	CA-C	-5.49	1.45	1.52
8	N	1259	PHE	CA-C	-5.49	1.45	1.52
9	Q	228	ALA	C-N	5.49	1.41	1.33
2	0	511	LYS	CA-C	-5.49	1.45	1.52
3	1	1285	VAL	C-N	5.49	1.41	1.33
7	O	98	THR	C-N	5.49	1.41	1.34
7	O	948	LEU	C-O	-5.49	1.17	1.24
8	P	870	PRO	C-N	5.49	1.41	1.33
7	M	724	ASN	CA-CB	5.49	1.62	1.53
9	Q	384	VAL	N-CA	-5.49	1.40	1.46
8	P	1072	TYR	C-N	5.49	1.41	1.33
7	M	883	VAL	N-CA	-5.49	1.40	1.46
9	Q	403	ASP	C-N	5.49	1.41	1.33
2	0	1011	ARG	C-O	-5.48	1.17	1.24
7	M	983	ILE	C-O	-5.48	1.18	1.24
8	P	102	PHE	N-CA	-5.48	1.39	1.46
8	P	1467	SER	CA-CB	-5.48	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	508	LYS	CA-C	-5.48	1.45	1.52
2	Y	1445	ASN	CG-ND2	5.48	1.44	1.33
7	M	499	PHE	CB-CG	5.48	1.63	1.50
8	N	19	ALA	C-N	5.48	1.41	1.33
9	R	690	ARG	NE-CZ	5.48	1.39	1.33
6	L	318	SER	CA-CB	5.48	1.61	1.53
7	O	499	PHE	CB-CG	5.48	1.63	1.50
9	T	278	LEU	CA-C	-5.48	1.45	1.52
9	T	643	LEU	CB-CG	5.48	1.64	1.53
7	M	365	LYS	CA-CB	5.48	1.62	1.53
7	M	1553	LEU	CA-C	-5.48	1.45	1.52
8	P	1270	LYS	N-CA	-5.48	1.39	1.46
9	S	684	ASN	CA-C	-5.48	1.48	1.52
4	A	748	ALA	N-CA	-5.47	1.39	1.46
8	N	1072	TYR	C-N	5.47	1.41	1.33
9	R	546	ARG	CD-NE	5.47	1.53	1.46
6	I	444	ILE	CA-C	5.47	1.59	1.52
7	O	84	ASP	CA-CB	5.47	1.62	1.53
2	Y	274	VAL	N-CA	5.47	1.52	1.46
2	Y	1347	LEU	CA-CB	5.47	1.61	1.53
2	Y	1434	ILE	N-CA	-5.47	1.39	1.46
3	Z	1234	ILE	CA-C	-5.47	1.46	1.52
8	N	1091	ASP	N-CA	-5.47	1.39	1.46
9	R	389	LYS	CA-C	5.47	1.59	1.52
2	0	592	TYR	C-N	5.47	1.41	1.33
2	0	1133	ILE	CA-C	5.47	1.60	1.53
4	J	790	ASN	CA-C	5.47	1.60	1.52
8	P	439	LEU	N-CA	-5.47	1.39	1.46
2	Y	853	PHE	N-CA	-5.47	1.39	1.46
3	1	749	ARG	N-CA	-5.47	1.41	1.46
9	T	640	SER	CA-C	-5.47	1.45	1.52
7	O	883	VAL	N-CA	-5.47	1.40	1.46
7	O	1163	LEU	C-O	-5.47	1.17	1.24
8	P	492	ILE	CA-C	-5.47	1.46	1.53
9	S	452	PRO	CA-C	-5.47	1.46	1.52
2	Y	511	LYS	CA-C	-5.47	1.45	1.52
7	M	1682	ASN	CA-C	-5.47	1.46	1.52
8	N	1304	LYS	CA-CB	5.47	1.62	1.53
4	G	678	GLN	CA-C	-5.47	1.45	1.52
2	Y	209	HIS	ND1-CE1	5.47	1.38	1.32
7	O	724	ASN	CA-CB	5.47	1.62	1.53
7	O	1682	ASN	CA-C	-5.47	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	S	689	ALA	C-N	5.47	1.40	1.33
7	M	150	PHE	N-CA	-5.46	1.39	1.46
7	M	219	HIS	CA-C	-5.46	1.45	1.52
7	M	468	THR	CA-CB	5.46	1.61	1.53
8	N	964	GLN	C-N	5.46	1.41	1.33
9	Q	755	LYS	C-N	5.46	1.41	1.34
7	O	847	GLY	C-N	5.46	1.40	1.33
8	P	1586	VAL	C-N	5.46	1.40	1.33
9	T	614	ARG	CA-C	-5.46	1.45	1.52
7	M	1556	ASP	C-N	5.46	1.40	1.33
2	0	178	GLU	N-CA	5.46	1.53	1.46
4	D	701	GLU	CA-CB	5.46	1.63	1.53
7	M	1143	SER	C-O	5.46	1.30	1.24
9	R	636	ARG	NE-CZ	5.46	1.39	1.33
4	G	804	LEU	CA-C	-5.46	1.45	1.52
8	P	34	ALA	CA-C	-5.46	1.45	1.52
8	P	665	THR	N-CA	5.46	1.52	1.46
7	M	774	ARG	CD-NE	5.46	1.53	1.46
9	S	261	GLU	CA-CB	5.46	1.61	1.53
8	N	1421	ILE	CA-C	5.46	1.59	1.52
9	Q	452	PRO	CA-C	-5.46	1.46	1.52
7	M	270	THR	CA-C	-5.46	1.45	1.52
7	M	616	VAL	C-N	5.46	1.41	1.33
9	Q	683	THR	C-N	5.46	1.41	1.33
9	R	48	GLU	N-CA	-5.46	1.39	1.46
9	R	423	LYS	N-CA	-5.46	1.42	1.46
7	O	1305	SER	C-N	5.46	1.41	1.33
7	O	1553	LEU	CA-C	-5.46	1.45	1.52
9	T	636	ARG	NE-CZ	5.46	1.39	1.33
9	T	690	ARG	NE-CZ	5.46	1.39	1.33
7	M	1070	TYR	CA-C	-5.46	1.45	1.52
7	O	707	LEU	C-N	5.46	1.41	1.33
7	O	1070	TYR	CA-C	-5.46	1.45	1.52
9	R	469	TYR	CA-C	-5.45	1.45	1.52
2	0	854	ILE	CB-CG1	5.45	1.64	1.53
3	1	1064	VAL	C-N	5.45	1.41	1.34
8	P	668	TYR	C-N	5.45	1.41	1.33
7	M	1032	ILE	CA-CB	5.45	1.60	1.54
7	O	271	LYS	C-O	-5.45	1.20	1.25
7	O	277	LEU	C-N	5.45	1.40	1.33
9	S	823	ARG	CZ-NH1	5.45	1.40	1.32
8	N	1193	ASN	CA-CB	5.45	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	Q	215	TYR	CA-C	-5.45	1.45	1.52
2	0	1434	ILE	N-CA	-5.45	1.39	1.46
3	1	1032	ILE	CA-C	5.45	1.59	1.53
2	Y	782	ARG	CD-NE	5.45	1.53	1.46
7	M	128	THR	C-N	5.45	1.41	1.33
7	M	242	ALA	N-CA	5.45	1.53	1.46
8	N	1232	HIS	CA-CB	5.45	1.61	1.53
9	Q	554	VAL	N-CA	-5.45	1.40	1.46
9	R	710	ASN	CA-CB	5.45	1.62	1.53
7	O	242	ALA	N-CA	5.45	1.53	1.46
7	M	176	GLN	CA-CB	5.45	1.61	1.53
8	N	166	ASN	C-N	5.45	1.41	1.33
8	N	1103	GLU	N-CA	-5.45	1.38	1.46
8	N	1508	SER	C-N	5.45	1.41	1.33
9	S	683	THR	C-N	5.45	1.41	1.33
9	S	755	LYS	CA-CB	5.45	1.61	1.53
9	Q	688	LEU	CA-CB	5.44	1.61	1.53
3	1	272	ILE	CA-C	-5.44	1.45	1.52
8	P	1304	LYS	CA-CB	5.44	1.62	1.53
3	Z	1064	VAL	C-N	5.44	1.41	1.34
8	N	679	SER	N-CA	-5.44	1.38	1.46
9	R	611	LEU	CA-CB	5.44	1.62	1.53
4	G	811	SER	CA-CB	5.44	1.61	1.53
7	O	1032	ILE	CA-CB	5.44	1.60	1.54
2	Y	1088	PHE	CA-CB	5.44	1.62	1.53
5	H	513	LEU	CA-CB	5.44	1.62	1.53
8	P	413	GLU	CA-CB	5.44	1.61	1.53
4	D	777	ASN	C-N	5.44	1.41	1.33
6	F	273	ILE	C-N	5.44	1.40	1.33
3	Z	1250	SER	CA-C	-5.44	1.46	1.52
3	Z	1364	GLU	CA-CB	5.44	1.62	1.53
4	D	704	GLN	N-CA	5.44	1.52	1.46
8	N	143	SER	C-N	5.44	1.40	1.33
3	1	425	ILE	CB-CG1	5.44	1.64	1.53
9	T	48	GLU	N-CA	-5.44	1.39	1.46
9	T	772	PRO	N-CA	-5.44	1.40	1.47
7	M	750	TRP	CD2-CE3	-5.44	1.31	1.40
9	T	320	TRP	C-O	-5.44	1.17	1.23
2	Y	854	ILE	CB-CG1	5.43	1.64	1.53
7	M	1094	GLY	CA-C	-5.43	1.46	1.52
9	Q	612	HIS	CD2-NE2	5.43	1.43	1.37
2	0	1177	ILE	CA-C	-5.43	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	O	219	HIS	CA-C	-5.43	1.45	1.52
9	T	710	ASN	CA-CB	5.43	1.62	1.53
8	N	1059	ASN	CA-CB	5.43	1.62	1.53
8	N	1595	LYS	CA-CB	5.43	1.61	1.53
10	U	278	GLU	CA-C	-5.43	1.45	1.53
3	1	104	ARG	CZ-NH2	5.43	1.40	1.33
7	M	772	ASN	C-N	5.43	1.41	1.33
9	R	88	LYS	CA-C	-5.43	1.45	1.52
7	O	983	ILE	C-O	-5.43	1.18	1.24
9	Q	683	THR	CA-C	-5.43	1.46	1.52
7	O	788	LEU	N-CA	-5.43	1.39	1.46
9	S	518	ILE	C-N	5.43	1.39	1.33
9	S	688	LEU	CA-CB	5.43	1.61	1.53
2	Y	128	ASN	CA-C	5.43	1.60	1.52
9	Q	200	LEU	CA-C	-5.43	1.46	1.52
4	J	777	ASN	C-N	5.43	1.41	1.33
9	T	342	ARG	CD-NE	5.43	1.53	1.46
11	X	378	ARG	NE-CZ	5.43	1.39	1.33
3	Z	259	ASN	CA-CB	5.43	1.61	1.53
2	0	128	ASN	CA-C	5.43	1.60	1.52
8	P	840	LEU	CB-CG	5.43	1.64	1.53
9	T	764	ASP	CA-CB	5.43	1.62	1.53
7	M	84	ASP	CA-CB	5.42	1.62	1.53
7	M	360	LEU	CA-CB	5.42	1.62	1.53
7	M	659	ASN	N-CA	-5.42	1.39	1.46
7	M	701	THR	N-CA	-5.42	1.40	1.46
7	M	1145	GLY	C-O	-5.42	1.17	1.23
8	N	1424	LEU	CA-CB	5.42	1.61	1.53
7	O	365	LYS	CA-CB	5.42	1.62	1.53
7	O	628	LYS	N-CA	-5.42	1.39	1.46
7	O	977	ARG	CD-NE	5.42	1.53	1.46
9	S	673	PRO	CA-C	-5.42	1.45	1.52
2	Y	1194	LEU	N-CA	-5.42	1.39	1.46
2	0	163	GLU	CA-C	5.42	1.59	1.52
2	0	1230	PHE	CA-C	-5.42	1.46	1.52
2	Y	1220	LEU	C-N	5.42	1.41	1.34
7	M	754	ASP	N-CA	-5.42	1.39	1.46
8	N	587	GLN	C-N	5.42	1.41	1.33
3	1	969	ARG	CD-NE	5.42	1.53	1.46
7	O	296	ARG	CZ-NH1	5.42	1.40	1.32
7	O	1475	ILE	CA-CB	-5.42	1.47	1.54
9	Q	573	HIS	ND1-CE1	5.42	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	O	616	VAL	C-N	5.42	1.41	1.33
2	Y	1343	LEU	CA-CB	5.42	1.61	1.53
5	E	437	TRP	N-CA	5.42	1.53	1.46
8	N	668	TYR	C-N	5.42	1.41	1.33
7	O	1253	ARG	CZ-NH1	5.42	1.40	1.32
8	P	1651	LEU	CA-C	5.42	1.59	1.52
9	S	338	PHE	N-CA	-5.42	1.40	1.46
7	M	788	LEU	N-CA	-5.42	1.39	1.46
8	N	1342	LEU	C-N	5.42	1.39	1.33
9	Q	261	GLU	CA-CB	5.42	1.61	1.53
9	R	780	SER	CA-CB	5.42	1.61	1.53
4	G	775	THR	C-N	5.42	1.42	1.33
7	O	1556	ASP	C-N	5.42	1.40	1.33
2	Y	403	GLY	CA-C	-5.42	1.44	1.51
2	0	928	GLY	N-CA	5.42	1.52	1.45
3	1	1301	SER	CA-C	-5.42	1.45	1.52
3	Z	951	VAL	CA-CB	-5.41	1.48	1.54
3	Z	969	ARG	CD-NE	5.41	1.53	1.46
2	0	1445	ASN	CG-ND2	5.41	1.44	1.33
5	E	352	ILE	N-CA	5.41	1.53	1.46
7	M	1571	GLN	CA-CB	5.41	1.61	1.53
2	Y	163	GLU	CA-C	5.41	1.59	1.52
3	Z	201	ILE	C-O	-5.41	1.18	1.24
9	R	643	LEU	CB-CG	5.41	1.64	1.53
8	P	1260	TYR	C-O	-5.41	1.17	1.24
3	Z	425	ILE	CB-CG1	5.41	1.64	1.53
7	M	99	ALA	CA-CB	5.41	1.62	1.53
7	M	296	ARG	CZ-NH1	5.41	1.40	1.32
7	M	780	ILE	CA-CB	-5.41	1.48	1.54
8	N	1467	SER	CA-CB	-5.41	1.44	1.53
9	R	736	LEU	C-N	5.41	1.41	1.33
8	P	964	GLN	C-N	5.41	1.41	1.33
9	T	736	LEU	C-N	5.41	1.41	1.33
2	Y	1133	ILE	CA-C	5.41	1.59	1.53
7	M	1060	LEU	CA-C	5.41	1.59	1.52
9	R	342	ARG	CD-NE	5.41	1.53	1.46
3	1	1250	SER	CA-C	-5.41	1.46	1.52
5	E	395	ALA	CA-C	-5.41	1.45	1.52
7	M	1164	PHE	N-CA	-5.41	1.40	1.46
8	N	840	LEU	CB-CG	5.41	1.64	1.53
3	1	402	ARG	CA-C	-5.41	1.46	1.52
5	K	352	ILE	N-CA	5.41	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	L	273	ILE	C-N	5.41	1.40	1.33
7	O	310	MET	CA-CB	5.41	1.61	1.53
8	P	679	SER	N-CA	-5.41	1.38	1.46
8	P	1145	ILE	CA-C	5.41	1.58	1.52
8	N	1053	LEU	N-CA	-5.40	1.39	1.46
7	M	1475	ILE	CA-CB	-5.40	1.48	1.54
8	N	492	ILE	CA-C	-5.40	1.47	1.53
7	O	944	ILE	C-O	-5.40	1.17	1.24
8	P	1635	GLU	C-O	-5.40	1.17	1.24
9	T	546	ARG	CD-NE	5.40	1.53	1.46
3	Z	1378	PRO	N-CA	-5.40	1.40	1.47
5	B	513	LEU	CA-CB	5.40	1.62	1.53
6	F	318	SER	CA-CB	5.40	1.61	1.53
3	Z	1265	ILE	N-CA	-5.40	1.40	1.46
3	1	717	THR	CA-C	-5.40	1.45	1.52
3	1	948	ARG	CZ-NH1	5.40	1.40	1.32
9	T	360	ILE	CA-C	-5.40	1.46	1.52
7	M	47	SER	CA-CB	5.40	1.61	1.53
7	M	944	ILE	C-O	-5.40	1.17	1.24
8	P	1042	SER	CA-CB	5.40	1.61	1.53
8	P	1508	SER	C-N	5.40	1.41	1.33
8	P	1595	LYS	CA-CB	5.40	1.61	1.53
7	M	17	SER	C-N	5.39	1.40	1.33
7	M	90	GLU	CA-CB	5.39	1.61	1.53
7	M	277	LEU	C-N	5.39	1.40	1.33
7	O	1469	ARG	CD-NE	5.39	1.53	1.46
8	P	782	VAL	N-CA	5.39	1.52	1.45
8	N	109	ARG	N-CA	-5.39	1.40	1.46
9	R	278	LEU	CA-C	-5.39	1.45	1.52
9	R	320	TRP	C-O	-5.39	1.17	1.23
9	R	360	ILE	CA-C	-5.39	1.46	1.52
8	P	166	ASN	C-N	5.39	1.41	1.33
8	N	1413	ASN	CA-CB	5.39	1.62	1.53
7	M	159	LYS	CA-CB	5.39	1.61	1.53
7	M	1163	LEU	C-O	-5.39	1.18	1.24
7	O	176	GLN	CA-CB	5.39	1.61	1.53
8	P	1421	ILE	CA-C	5.39	1.59	1.52
3	Z	387	GLY	CA-C	-5.39	1.46	1.52
3	Z	1347	ILE	CA-C	-5.39	1.46	1.52
2	0	274	VAL	N-CA	5.39	1.52	1.46
9	S	477	TYR	CA-C	-5.39	1.45	1.52
10	W	278	GLU	CA-C	-5.39	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	80	VAL	CA-CB	-5.39	1.47	1.54
6	C	332	LYS	C-N	5.39	1.40	1.33
8	N	1197	VAL	C-N	5.39	1.41	1.33
8	N	1402	LYS	C-N	5.39	1.41	1.33
9	Q	410	ALA	C-N	5.39	1.40	1.33
2	0	619	THR	C-N	5.39	1.39	1.33
2	0	1367	LEU	C-N	5.39	1.41	1.33
3	1	80	VAL	CA-CB	-5.39	1.47	1.54
7	O	1143	SER	C-O	5.39	1.30	1.24
8	P	1402	LYS	C-N	5.39	1.41	1.33
9	S	380	HIS	CA-CB	5.39	1.61	1.53
2	Y	186	ILE	CA-CB	5.38	1.60	1.53
4	A	804	LEU	CA-C	-5.38	1.45	1.52
9	R	764	ASP	CA-CB	5.38	1.62	1.53
2	0	528	PRO	C-N	5.38	1.41	1.33
8	P	1232	HIS	CA-CB	5.38	1.61	1.53
9	S	253	LEU	C-O	-5.38	1.17	1.24
3	Z	993	PRO	CA-CB	5.38	1.62	1.53
7	M	1112	LEU	CA-C	-5.38	1.45	1.52
2	0	1045	GLU	C-N	5.38	1.41	1.33
3	1	1013	LYS	CA-C	-5.38	1.45	1.52
7	O	128	THR	C-N	5.38	1.41	1.33
7	O	1112	LEU	CA-C	-5.38	1.45	1.52
8	P	1053	LEU	N-CA	-5.38	1.39	1.46
5	B	472	ASN	CA-C	5.38	1.58	1.53
7	M	799	SER	N-CA	-5.38	1.39	1.46
7	O	774	ARG	CD-NE	5.38	1.53	1.46
7	O	799	SER	N-CA	-5.38	1.39	1.46
9	T	337	ILE	CA-C	-5.38	1.46	1.52
8	N	1651	LEU	CA-C	5.38	1.59	1.52
3	1	562	ASP	CA-CB	5.38	1.60	1.52
5	K	433	GLU	N-CA	5.38	1.56	1.46
7	O	17	SER	C-N	5.38	1.40	1.33
7	O	263	LEU	N-CA	-5.38	1.39	1.46
2	Y	928	GLY	N-CA	5.38	1.52	1.45
7	M	923	VAL	N-CA	5.38	1.52	1.46
7	M	1671	VAL	C-N	5.38	1.40	1.33
9	Q	466	ILE	N-CA	-5.38	1.40	1.46
3	1	1364	GLU	CA-CB	5.38	1.62	1.53
7	O	1164	PHE	N-CA	-5.38	1.40	1.46
3	Z	120	GLY	CA-C	-5.38	1.44	1.51
8	P	1103	GLU	N-CA	-5.38	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	1032	ILE	CA-C	5.37	1.59	1.53
7	M	824	ALA	C-N	5.37	1.41	1.33
7	O	47	SER	CA-CB	5.37	1.61	1.53
7	O	754	ASP	N-CA	-5.37	1.39	1.46
7	O	824	ALA	C-N	5.37	1.41	1.33
8	P	833	LYS	C-N	5.37	1.40	1.33
8	P	1470	LEU	C-N	5.37	1.41	1.33
8	N	399	VAL	C-N	5.37	1.40	1.33
8	P	660	PHE	CA-CB	5.37	1.61	1.53
9	T	281	GLN	N-CA	-5.37	1.39	1.46
7	M	38	ASN	C-N	5.37	1.41	1.33
3	1	108	THR	N-CA	-5.37	1.38	1.46
9	S	612	HIS	CD2-NE2	5.37	1.43	1.37
3	1	951	VAL	CA-CB	-5.37	1.48	1.54
7	O	220	VAL	C-N	5.37	1.41	1.33
2	Y	1086	ASN	CA-C	5.37	1.60	1.52
3	1	201	ILE	C-O	-5.37	1.18	1.24
9	T	780	SER	CA-CB	5.37	1.61	1.53
2	Y	1199	ILE	CA-CB	-5.37	1.48	1.54
7	M	67	ASN	CA-CB	5.37	1.61	1.53
7	M	137	ASN	CA-C	-5.37	1.47	1.52
5	K	437	TRP	N-CA	5.37	1.53	1.46
7	O	445	ASP	C-N	5.37	1.41	1.33
6	F	283	TYR	CA-C	-5.36	1.46	1.53
2	0	1347	LEU	CA-CB	5.36	1.61	1.53
7	O	897	ASP	CA-C	-5.36	1.44	1.52
8	P	188	ILE	CA-CB	-5.36	1.48	1.54
8	P	398	ARG	C-O	-5.36	1.17	1.24
8	P	587	GLN	C-N	5.36	1.41	1.33
7	O	38	ASN	C-N	5.36	1.41	1.33
3	Z	1285	VAL	C-N	5.36	1.41	1.33
7	M	310	MET	CA-CB	5.36	1.61	1.53
7	M	977	ARG	CD-NE	5.36	1.53	1.46
8	N	660	PHE	CA-CB	5.36	1.61	1.53
8	N	1134	TRP	C-N	5.36	1.40	1.33
2	0	1343	LEU	CA-CB	5.36	1.61	1.53
8	P	81	ILE	CA-CB	-5.36	1.50	1.55
8	P	1413	ASN	CA-CB	5.36	1.62	1.53
3	1	200	THR	C-N	5.36	1.39	1.33
7	O	217	LEU	N-CA	-5.36	1.39	1.46
9	T	573	HIS	N-CA	5.36	1.52	1.46
2	Y	1019	ARG	CD-NE	5.36	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	R	214	ASN	CA-C	-5.36	1.45	1.52
3	Z	948	ARG	CZ-NH1	5.36	1.40	1.32
9	Q	253	LEU	C-O	-5.36	1.17	1.24
2	0	648	GLU	CA-CB	5.36	1.60	1.53
3	1	1067	LYS	CA-CB	5.36	1.61	1.53
9	T	92	THR	CA-C	5.36	1.59	1.52
8	N	398	ARG	C-O	-5.35	1.17	1.24
5	K	434	GLU	CA-C	-5.35	1.45	1.52
8	P	1059	ASN	CA-CB	5.35	1.62	1.53
9	S	200	LEU	CA-C	-5.35	1.46	1.52
2	Y	1045	GLU	C-N	5.35	1.41	1.33
8	N	824	LEU	C-N	5.35	1.41	1.34
8	N	1042	SER	CA-CB	5.35	1.61	1.53
3	1	1317	SER	N-CA	-5.35	1.39	1.45
7	O	99	ALA	CA-CB	5.35	1.62	1.53
7	O	137	ASN	CA-C	-5.35	1.47	1.52
7	M	224	ASP	C-N	5.35	1.39	1.33
2	0	1220	LEU	C-N	5.35	1.41	1.34
2	Y	240	LEU	C-N	5.35	1.41	1.33
2	0	1019	ARG	CD-NE	5.35	1.53	1.46
7	O	659	ASN	N-CA	-5.35	1.39	1.46
6	F	316	LEU	C-N	5.35	1.41	1.33
7	M	98	THR	C-N	5.35	1.41	1.34
7	M	220	VAL	C-N	5.35	1.41	1.33
7	M	476	ALA	CA-C	5.35	1.59	1.53
7	M	1513	TYR	CA-C	-5.35	1.45	1.52
8	N	1635	GLU	C-O	-5.35	1.17	1.24
9	R	834	ASN	N-CA	-5.35	1.39	1.46
8	P	1424	LEU	CA-CB	5.35	1.61	1.53
9	T	423	LYS	N-CA	-5.35	1.42	1.46
2	Y	528	PRO	C-N	5.35	1.41	1.33
2	Y	914	TYR	CA-CB	5.34	1.61	1.53
3	Z	200	THR	C-N	5.34	1.39	1.33
4	D	797	LEU	CA-CB	5.34	1.61	1.53
7	O	224	ASP	C-N	5.34	1.39	1.33
8	N	833	LYS	C-N	5.34	1.40	1.33
8	N	901	ILE	CA-C	5.34	1.59	1.52
3	1	120	GLY	CA-C	-5.34	1.44	1.51
2	Y	308	LYS	CA-C	-5.34	1.46	1.52
3	Z	104	ARG	CZ-NH2	5.34	1.40	1.33
6	C	294	LEU	C-N	5.34	1.41	1.33
7	M	686	ASN	CA-CB	5.34	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	M	1500	ASN	CA-CB	5.34	1.62	1.53
8	N	1529	ILE	C-O	5.34	1.30	1.24
2	0	1189	LYS	N-CA	-5.34	1.39	1.46
6	I	332	LYS	C-N	5.34	1.40	1.33
7	O	1671	VAL	C-N	5.34	1.40	1.33
7	M	897	ASP	CA-C	-5.34	1.44	1.52
8	N	1318	LEU	C-N	5.34	1.41	1.34
9	Q	477	TYR	CA-C	-5.34	1.45	1.52
9	R	573	HIS	N-CA	5.34	1.52	1.46
2	0	209	HIS	ND1-CE1	5.34	1.37	1.32
8	P	109	ARG	N-CA	-5.34	1.40	1.46
3	Z	802	ILE	N-CA	-5.34	1.40	1.46
8	N	34	ALA	CA-C	-5.34	1.45	1.52
3	Z	379	ILE	CA-C	-5.34	1.45	1.52
9	Q	195	SER	C-N	5.34	1.40	1.33
9	Q	619	PHE	CA-CB	5.34	1.61	1.53
9	Q	634	ASP	CA-CB	5.34	1.62	1.53
3	1	225	ALA	CA-C	-5.34	1.46	1.52
3	1	603	VAL	C-N	5.34	1.41	1.33
7	O	159	LYS	CA-CB	5.34	1.61	1.53
8	P	824	LEU	C-N	5.34	1.41	1.34
8	P	918	PHE	C-N	5.34	1.41	1.33
8	P	1217	ARG	CZ-NH2	5.34	1.40	1.33
8	P	1377	ASN	CA-CB	5.34	1.62	1.53
3	Z	1067	LYS	CA-CB	5.33	1.61	1.53
3	Z	1317	SER	N-CA	-5.33	1.39	1.45
9	Q	350	LEU	C-N	5.33	1.40	1.33
3	1	379	ILE	CA-C	-5.33	1.45	1.52
3	Z	213	THR	C-N	5.33	1.40	1.33
4	D	652	ALA	CA-CB	5.33	1.61	1.53
7	M	1469	ARG	CD-NE	5.33	1.53	1.46
2	0	1088	PHE	CA-CB	5.33	1.62	1.53
4	J	704	GLN	N-CA	5.33	1.52	1.46
7	O	1513	TYR	CA-C	-5.33	1.45	1.52
8	P	1432	ARG	NE-CZ	5.33	1.39	1.33
3	Z	972	ASP	N-CA	5.33	1.52	1.46
3	Z	1301	SER	CA-C	-5.33	1.45	1.52
8	N	1145	ILE	CA-C	5.33	1.58	1.52
2	0	1441	ASN	CA-C	-5.33	1.45	1.52
7	O	1610	ALA	N-CA	-5.33	1.40	1.46
3	Z	1055	PHE	C-O	5.33	1.30	1.24
7	M	217	LEU	N-CA	-5.33	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	M	581	GLN	CA-CB	5.33	1.61	1.53
9	Q	676	GLY	C-O	-5.33	1.16	1.24
7	O	350	ARG	N-CA	-5.33	1.42	1.47
5	E	525	GLU	C-N	5.33	1.40	1.33
9	R	92	THR	CA-C	5.33	1.59	1.52
2	0	1052	SER	CA-CB	5.33	1.61	1.53
8	N	1043	LEU	N-CA	-5.33	1.40	1.46
7	O	67	ASN	CA-CB	5.33	1.61	1.53
8	N	1260	TYR	C-O	-5.33	1.18	1.24
2	0	240	LEU	C-N	5.33	1.41	1.33
7	O	588	ASN	CA-C	-5.33	1.46	1.52
8	P	51	LEU	N-CA	-5.33	1.39	1.46
9	S	619	PHE	CA-CB	5.33	1.61	1.53
9	T	545	PHE	N-CA	-5.33	1.39	1.46
2	Y	1189	LYS	N-CA	-5.32	1.39	1.46
3	Z	717	THR	CA-C	-5.32	1.46	1.52
8	N	1259	PHE	C-N	5.32	1.40	1.33
8	N	1470	LEU	C-N	5.32	1.41	1.33
9	R	241	ILE	CA-C	-5.32	1.46	1.52
3	1	1234	ILE	CA-C	-5.32	1.46	1.52
6	I	283	TYR	C-N	5.32	1.40	1.33
8	P	776	TYR	N-CA	-5.32	1.40	1.46
8	N	1169	ALA	CA-CB	5.32	1.61	1.53
9	T	280	GLN	C-N	5.32	1.41	1.33
2	Y	285	ALA	CA-C	-5.32	1.46	1.52
2	Y	1230	PHE	CA-C	-5.32	1.46	1.52
2	0	947	LEU	CA-CB	5.32	1.61	1.53
3	1	264	ILE	CA-C	5.32	1.58	1.52
3	1	1378	PRO	N-CA	-5.32	1.40	1.47
6	I	335	SER	N-CA	-5.32	1.40	1.46
8	P	74	THR	CA-CB	5.32	1.61	1.53
5	B	464	ALA	C-N	5.32	1.40	1.33
7	M	345	ARG	NE-CZ	5.32	1.39	1.33
3	Z	108	THR	N-CA	-5.32	1.38	1.46
3	Z	272	ILE	CA-C	-5.32	1.46	1.52
3	Z	562	ASP	CA-CB	5.32	1.60	1.52
9	R	772	PRO	N-CA	-5.32	1.40	1.47
2	0	308	LYS	CA-C	-5.32	1.46	1.52
2	0	1194	LEU	N-CA	-5.32	1.39	1.46
6	L	396	THR	CA-C	5.32	1.59	1.52
7	O	538	GLU	CA-C	-5.32	1.46	1.52
8	P	1318	LEU	C-N	5.32	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	S	363	VAL	C-N	-5.32	1.25	1.33
9	T	321	LYS	CA-CB	5.32	1.62	1.53
9	T	802	GLN	CA-C	-5.32	1.46	1.52
7	M	905	SER	C-O	5.32	1.29	1.23
9	R	545	PHE	N-CA	-5.32	1.39	1.46
3	1	1122	ASP	N-CA	-5.32	1.38	1.46
7	O	90	GLU	CA-CB	5.32	1.61	1.53
7	O	1312	ILE	CB-CG1	5.32	1.64	1.53
11	X	359	THR	N-CA	-5.32	1.39	1.45
8	P	80	GLN	CA-CB	5.31	1.61	1.53
6	F	353	LEU	CB-CG	5.31	1.64	1.53
8	N	77	ASN	CA-CB	5.31	1.62	1.53
6	I	464	THR	C-O	-5.31	1.17	1.24
5	K	525	GLU	C-N	5.31	1.40	1.33
7	O	1060	LEU	CA-C	5.31	1.59	1.52
9	T	156	MET	CA-C	-5.31	1.46	1.52
4	A	761	ASN	CG-ND2	5.31	1.44	1.33
9	Q	380	HIS	CA-CB	5.31	1.61	1.53
2	Y	595	ASN	CA-CB	5.31	1.59	1.53
7	M	771	ARG	NE-CZ	5.31	1.38	1.33
7	M	1610	ALA	N-CA	-5.31	1.40	1.46
7	O	771	ARG	NE-CZ	5.31	1.38	1.33
7	O	1624	GLN	CA-CB	5.31	1.61	1.53
8	P	954	ILE	CA-CB	5.31	1.60	1.54
2	Y	218	ARG	CD-NE	5.31	1.53	1.46
2	Y	638	ARG	N-CA	-5.31	1.39	1.46
7	M	1624	GLN	CA-CB	5.31	1.61	1.53
9	R	123	MET	CA-CB	5.31	1.61	1.53
9	R	301	ASN	N-CA	-5.31	1.40	1.46
2	0	256	VAL	C-N	5.31	1.40	1.33
5	H	374	ILE	CA-CB	-5.31	1.47	1.54
7	O	1145	GLY	C-O	-5.31	1.17	1.23
9	S	410	ALA	C-N	5.31	1.40	1.33
9	S	466	ILE	N-CA	-5.31	1.40	1.46
2	Y	1441	ASN	CA-C	-5.31	1.45	1.52
3	Z	264	ILE	CA-C	5.31	1.58	1.52
8	N	954	ILE	CA-CB	5.31	1.60	1.54
2	0	218	ARG	CD-NE	5.31	1.53	1.46
7	O	701	THR	N-CA	-5.31	1.40	1.46
9	S	215	TYR	CA-C	-5.31	1.46	1.52
11	X	290	HIS	ND1-CE1	5.31	1.37	1.32
3	Z	603	VAL	C-N	5.30	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	510	VAL	N-CA	-5.30	1.40	1.46
8	N	572	LEU	N-CA	5.30	1.53	1.46
6	I	294	LEU	C-N	5.30	1.40	1.33
8	P	572	LEU	N-CA	5.30	1.53	1.46
6	C	294	LEU	CA-C	-5.30	1.45	1.52
8	N	81	ILE	CA-CB	-5.30	1.50	1.55
9	R	294	MET	C-N	5.30	1.40	1.33
8	P	901	ILE	CA-C	5.30	1.59	1.52
8	P	1043	LEU	N-CA	-5.30	1.40	1.46
7	M	1024	LEU	CB-CG	5.30	1.64	1.53
9	R	224	ASN	C-N	5.30	1.40	1.33
9	R	281	GLN	N-CA	-5.30	1.40	1.46
6	I	388	CYS	C-N	5.30	1.40	1.33
7	M	1312	ILE	CB-CG1	5.30	1.64	1.53
3	1	972	ASP	N-CA	5.30	1.52	1.46
6	L	316	LEU	C-N	5.30	1.40	1.33
11	X	371	GLN	N-CA	-5.30	1.39	1.46
2	Y	281	ARG	CD-NE	5.30	1.53	1.46
6	I	458	ALA	C-O	-5.30	1.17	1.24
7	O	893	HIS	N-CA	-5.30	1.39	1.46
3	Z	811	LEU	CA-C	-5.30	1.46	1.52
6	C	388	CYS	C-N	5.30	1.40	1.33
9	Q	363	VAL	C-N	-5.30	1.26	1.33
9	T	502	ASP	C-O	-5.30	1.17	1.24
7	M	831	ILE	CA-CB	-5.29	1.47	1.54
6	L	283	TYR	CA-C	-5.29	1.46	1.53
7	O	631	LEU	CA-C	-5.29	1.45	1.52
2	Y	1009	HIS	ND1-CE1	5.29	1.37	1.32
2	Y	1123	GLN	C-N	5.29	1.41	1.33
5	B	441	GLN	CA-CB	5.29	1.61	1.53
8	N	811	ASP	CA-CB	5.29	1.62	1.53
2	0	310	SER	C-N	5.29	1.41	1.33
8	P	1404	PHE	N-CA	5.29	1.52	1.46
11	V	290	HIS	ND1-CE1	5.29	1.37	1.32
7	O	686	ASN	CA-CB	5.29	1.61	1.53
7	O	712	LEU	CB-CG	5.29	1.64	1.53
9	S	350	LEU	C-N	5.29	1.40	1.33
3	1	993	PRO	CA-CB	5.29	1.62	1.53
3	1	1055	PHE	C-O	5.29	1.30	1.24
7	O	1024	LEU	CB-CG	5.29	1.64	1.53
2	Y	256	VAL	C-N	5.29	1.40	1.33
3	Z	96	GLU	N-CA	-5.29	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	M	1157	TRP	CA-C	-5.29	1.46	1.52
11	V	359	THR	N-CA	-5.29	1.39	1.45
7	O	1157	TRP	CA-C	-5.29	1.46	1.52
7	M	1154	ARG	C-N	5.29	1.40	1.33
8	N	111	HIS	CA-C	5.29	1.59	1.52
8	N	1404	PHE	N-CA	5.29	1.52	1.46
9	Q	303	ASN	C-N	5.29	1.41	1.33
2	0	1086	ASN	CA-C	5.29	1.60	1.52
2	0	1009	HIS	ND1-CE1	5.28	1.37	1.32
9	S	634	ASP	CA-CB	5.28	1.62	1.53
2	Y	619	THR	C-N	5.28	1.39	1.33
3	Z	560	LEU	CA-C	-5.28	1.45	1.52
8	P	1529	ILE	C-O	5.28	1.30	1.24
9	S	403	ASP	C-N	5.28	1.41	1.33
9	T	339	TYR	C-N	5.28	1.40	1.33
2	Y	522	ALA	CA-C	-5.28	1.45	1.52
2	Y	947	LEU	CA-CB	5.28	1.61	1.53
7	M	445	ASP	C-N	5.28	1.41	1.33
8	N	80	GLN	CA-CB	5.28	1.61	1.53
8	N	918	PHE	C-N	5.28	1.40	1.33
9	R	636	ARG	C-N	5.28	1.40	1.33
4	J	797	LEU	CA-CB	5.28	1.61	1.53
7	O	905	SER	C-O	5.28	1.29	1.23
8	N	1225	GLY	CA-C	-5.28	1.45	1.52
3	Z	225	ALA	CA-C	-5.28	1.46	1.52
7	M	1285	HIS	ND1-CE1	5.28	1.37	1.32
8	N	1294	ASP	CA-C	-5.28	1.45	1.52
9	R	604	ILE	N-CA	-5.28	1.40	1.46
3	1	213	THR	C-N	5.28	1.40	1.33
3	1	742	ALA	CA-CB	5.28	1.59	1.53
6	L	397	ALA	N-CA	-5.28	1.40	1.46
8	P	1294	ASP	CA-C	-5.28	1.45	1.52
9	S	479	LEU	C-N	5.28	1.40	1.33
2	Y	256	VAL	C-O	-5.28	1.18	1.24
3	Z	1104	LYS	CA-C	5.28	1.59	1.52
4	D	765	LEU	N-CA	-5.28	1.40	1.46
5	E	434	GLU	CA-C	-5.28	1.46	1.52
6	I	294	LEU	CA-C	-5.28	1.45	1.52
5	K	379	ILE	CA-C	5.28	1.59	1.52
6	L	353	LEU	CB-CG	5.28	1.64	1.53
8	P	788	HIS	ND1-CE1	5.28	1.37	1.32
2	Y	372	SER	N-CA	-5.27	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	1093	ASP	N-CA	-5.27	1.39	1.46
2	Y	1300	LYS	CA-CB	5.27	1.62	1.53
3	1	1054	PHE	CA-C	-5.27	1.46	1.52
8	P	333	ARG	C-O	-5.27	1.17	1.24
2	Y	310	SER	C-N	5.27	1.41	1.33
6	F	448	THR	N-CA	-5.27	1.39	1.46
7	M	552	SER	N-CA	-5.27	1.38	1.45
8	N	386	SER	N-CA	-5.27	1.39	1.46
8	N	1377	ASN	CA-CB	5.27	1.62	1.53
7	O	438	VAL	C-N	5.27	1.40	1.33
7	O	1500	ASN	CA-CB	5.27	1.62	1.53
8	P	1169	ALA	CA-CB	5.27	1.61	1.53
3	Z	284	TRP	CZ2-CH2	5.27	1.47	1.37
9	R	156	MET	CA-C	-5.27	1.46	1.52
8	P	811	ASP	CA-CB	5.27	1.62	1.53
2	Y	761	LEU	C-N	5.27	1.41	1.33
3	Z	665	PHE	N-CA	-5.27	1.40	1.46
3	Z	1122	ASP	N-CA	-5.27	1.38	1.46
4	A	775	THR	C-N	5.27	1.41	1.33
7	M	1013	TYR	N-CA	5.27	1.52	1.45
2	0	1300	LYS	CA-CB	5.27	1.62	1.53
3	1	387	GLY	CA-C	-5.27	1.46	1.52
7	O	75	ILE	C-N	5.27	1.40	1.33
7	O	1598	PHE	CA-CB	5.27	1.61	1.53
9	T	123	MET	CA-CB	5.27	1.61	1.53
3	Z	1054	PHE	CA-C	-5.27	1.46	1.52
7	O	581	GLN	CA-CB	5.27	1.61	1.53
8	P	72	ARG	N-CA	-5.27	1.40	1.46
3	Z	1375	ASN	N-CA	-5.27	1.39	1.46
2	Y	648	GLU	CA-CB	5.26	1.60	1.53
2	Y	1374	ILE	CA-CB	5.26	1.60	1.54
3	Z	285	GLU	CA-C	-5.26	1.46	1.52
7	M	188	ARG	CD-NE	5.26	1.53	1.46
11	V	278	GLU	CA-CB	5.26	1.62	1.53
2	0	1093	ASP	N-CA	-5.26	1.39	1.46
8	P	386	SER	N-CA	-5.26	1.39	1.46
8	P	399	VAL	C-N	5.26	1.40	1.33
7	M	712	LEU	CB-CG	5.26	1.64	1.53
7	M	1064	THR	C-N	5.26	1.40	1.33
3	1	560	LEU	CA-C	-5.26	1.45	1.52
3	1	811	LEU	CA-C	-5.26	1.46	1.52
4	G	761	ASN	CG-ND2	5.26	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	N	985	GLU	CA-CB	5.26	1.61	1.53
2	0	1374	ILE	CA-CB	5.26	1.60	1.54
8	N	91	GLN	CA-CB	5.26	1.62	1.53
9	Q	479	LEU	C-N	5.26	1.40	1.33
9	Q	621	HIS	ND1-CE1	5.26	1.37	1.32
8	P	531	ILE	CB-CG1	5.26	1.64	1.53
9	S	279	GLU	N-CA	5.26	1.52	1.46
2	Y	89	HIS	N-CA	5.26	1.52	1.46
6	F	465	LYS	CA-C	-5.26	1.45	1.52
9	R	608	GLN	CA-CB	5.26	1.60	1.53
9	R	802	GLN	CA-C	-5.26	1.46	1.52
3	1	802	ILE	N-CA	-5.26	1.40	1.46
7	O	923	VAL	N-CA	5.26	1.52	1.46
8	P	36	GLN	N-CA	-5.26	1.39	1.46
9	S	704	ARG	NE-CZ	5.26	1.38	1.33
3	Z	438	ILE	CB-CG1	5.25	1.64	1.53
8	N	665	THR	N-CA	5.25	1.51	1.46
8	N	788	HIS	ND1-CE1	5.25	1.37	1.32
3	1	1347	ILE	CA-C	-5.25	1.46	1.52
7	O	714	HIS	ND1-CE1	5.25	1.37	1.32
2	Y	530	ILE	CA-C	5.25	1.58	1.52
2	Y	1052	SER	CA-CB	5.25	1.61	1.53
6	C	304	LEU	N-CA	-5.25	1.40	1.46
6	F	396	THR	CA-C	5.25	1.59	1.52
8	N	51	LEU	N-CA	-5.25	1.39	1.46
5	H	472	ASN	CA-C	5.25	1.57	1.53
9	S	303	ASN	C-N	5.25	1.41	1.33
2	Y	400	ARG	NE-CZ	5.25	1.38	1.33
8	N	188	ILE	CA-CB	-5.25	1.48	1.54
9	R	337	ILE	CA-C	-5.25	1.46	1.52
3	1	665	PHE	N-CA	-5.25	1.40	1.46
5	H	510	VAL	N-CA	-5.25	1.40	1.46
3	Z	426	THR	N-CA	-5.25	1.39	1.45
8	N	965	ASP	C-N	5.25	1.40	1.33
9	Q	704	ARG	NE-CZ	5.25	1.38	1.33
9	S	676	GLY	C-O	-5.25	1.16	1.24
3	Z	1039	LEU	CA-C	-5.25	1.46	1.52
5	E	433	GLU	N-CA	5.25	1.56	1.46
3	1	973	LYS	CA-C	-5.25	1.45	1.52
5	H	311	PHE	N-CA	-5.25	1.40	1.47
7	O	188	ARG	CD-NE	5.25	1.53	1.46
9	T	121	ILE	C-N	5.25	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	M	274	LYS	C-N	5.25	1.40	1.33
2	0	640	ALA	C-N	5.25	1.40	1.33
5	H	398	ILE	C-N	5.25	1.41	1.33
7	O	270	THR	C-N	5.25	1.38	1.33
7	M	270	THR	C-N	5.25	1.38	1.33
5	E	404	ARG	CA-C	5.24	1.59	1.52
8	N	774	ILE	CB-CG1	5.24	1.64	1.53
9	Q	571	LEU	C-N	5.24	1.40	1.33
11	V	366	ALA	CA-CB	5.24	1.61	1.53
2	0	638	ARG	N-CA	-5.24	1.39	1.46
2	0	777	ILE	CA-C	5.24	1.59	1.52
8	P	344	SER	N-CA	-5.24	1.40	1.46
8	P	367	GLU	CA-C	5.24	1.59	1.52
8	P	774	ILE	CB-CG1	5.24	1.64	1.53
2	0	281	ARG	CD-NE	5.24	1.53	1.46
8	P	111	HIS	CA-C	5.24	1.59	1.52
2	Y	618	THR	CA-C	-5.24	1.46	1.52
3	Z	1132	GLU	CA-CB	5.24	1.61	1.53
8	N	367	GLU	CA-C	5.24	1.59	1.52
6	F	350	PHE	N-CA	-5.24	1.39	1.46
7	M	520	ASN	C-N	5.24	1.40	1.33
8	N	484	ASN	C-N	5.24	1.41	1.33
8	N	1478	ILE	C-N	5.24	1.41	1.33
9	Q	811	ARG	CA-C	5.24	1.59	1.52
9	R	477	TYR	CA-CB	5.24	1.61	1.53
5	H	409	GLU	C-N	5.24	1.40	1.33
8	P	946	TRP	N-CA	-5.24	1.40	1.46
8	P	1478	ILE	C-N	5.24	1.41	1.33
3	Z	625	ILE	CA-C	5.24	1.60	1.52
2	0	914	TYR	CA-CB	5.24	1.61	1.53
3	1	426	THR	N-CA	-5.24	1.39	1.45
3	1	1265	ILE	N-CA	-5.24	1.40	1.46
3	1	1375	ASN	N-CA	-5.24	1.39	1.46
9	T	288	ASN	C-N	5.24	1.41	1.33
6	C	283	TYR	C-N	5.24	1.40	1.33
7	M	893	HIS	N-CA	-5.24	1.39	1.46
7	O	166	GLN	CA-C	-5.24	1.46	1.52
9	T	294	MET	C-N	5.24	1.40	1.33
3	Z	254	ASN	N-CA	-5.23	1.39	1.46
5	B	374	ILE	CA-CB	-5.23	1.48	1.54
3	1	716	ILE	N-CA	-5.23	1.40	1.46
2	Y	1351	PHE	N-CA	-5.23	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	398	ILE	C-N	5.23	1.41	1.33
9	Q	68	LYS	CA-CB	5.23	1.61	1.53
5	H	462	ARG	CA-C	-5.23	1.46	1.52
9	T	771	ILE	C-O	-5.23	1.18	1.24
9	T	834	ASN	N-CA	-5.23	1.39	1.46
6	C	458	ALA	C-O	-5.23	1.17	1.24
2	0	1199	ILE	CA-CB	-5.23	1.48	1.54
2	0	1255	ILE	N-CA	5.23	1.52	1.46
7	O	345	ARG	NE-CZ	5.23	1.38	1.33
7	O	671	PHE	N-CA	-5.23	1.40	1.46
7	O	680	PHE	C-N	5.23	1.42	1.33
2	Y	584	GLY	CA-C	-5.23	1.46	1.52
7	M	179	ILE	CA-CB	-5.23	1.48	1.54
8	P	388	ASN	C-N	5.23	1.41	1.33
9	S	464	ASN	CA-C	-5.23	1.46	1.52
3	Z	1070	ASP	CA-CB	5.23	1.61	1.53
4	J	765	LEU	N-CA	-5.23	1.40	1.46
8	P	1454	GLU	CA-CB	5.23	1.60	1.53
11	X	278	GLU	CA-CB	5.23	1.62	1.53
2	Y	777	ILE	CA-C	5.22	1.59	1.52
8	N	101	PHE	N-CA	-5.22	1.40	1.46
9	Q	705	GLN	C-N	5.22	1.40	1.33
2	0	186	ILE	CA-CB	5.22	1.60	1.53
3	1	1104	LYS	CA-C	5.22	1.59	1.52
7	O	1119	PHE	CA-C	-5.22	1.45	1.52
8	P	965	ASP	C-N	5.22	1.40	1.33
8	P	1134	TRP	C-N	5.22	1.39	1.33
9	S	584	LYS	CA-C	5.22	1.59	1.53
9	T	301	ASN	N-CA	-5.22	1.40	1.46
9	T	546	ARG	CA-C	5.22	1.59	1.52
2	Y	232	LEU	CA-C	-5.22	1.46	1.52
7	M	680	PHE	C-N	5.22	1.42	1.33
7	O	882	TYR	N-CA	-5.22	1.40	1.46
6	F	397	ALA	N-CA	-5.22	1.40	1.46
7	M	588	ASN	CA-C	-5.22	1.46	1.52
3	1	290	CYS	CA-CB	5.22	1.62	1.53
8	P	91	GLN	CA-CB	5.22	1.62	1.53
9	S	533	ARG	CZ-NH2	5.22	1.40	1.33
9	T	439	HIS	CG-ND1	-5.22	1.32	1.38
6	C	307	SER	N-CA	-5.22	1.39	1.46
9	R	321	LYS	CA-CB	5.22	1.62	1.53
9	R	694	SER	C-N	5.22	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	L	448	THR	N-CA	-5.22	1.40	1.46
7	O	949	SER	C-N	-5.22	1.27	1.33
3	Z	943	GLU	CA-CB	5.22	1.61	1.53
5	B	409	GLU	C-N	5.22	1.40	1.33
2	0	232	LEU	CA-C	-5.22	1.46	1.52
9	T	241	ILE	CA-C	-5.22	1.46	1.52
9	T	622	THR	CA-C	-5.22	1.45	1.52
2	Y	653	ARG	C-N	5.22	1.41	1.33
2	Y	895	ALA	CA-CB	5.22	1.61	1.53
4	D	803	ALA	C-N	5.22	1.40	1.33
8	N	153	ASP	CA-C	-5.22	1.45	1.52
8	N	531	ILE	CB-CG1	5.22	1.63	1.53
2	0	595	ASN	CA-CB	5.22	1.59	1.53
3	1	96	GLU	N-CA	-5.22	1.40	1.46
4	J	803	ALA	C-N	5.22	1.40	1.33
9	S	571	LEU	C-N	5.22	1.40	1.33
2	Y	1333	HIS	N-CA	-5.21	1.40	1.46
6	C	464	THR	C-O	-5.21	1.17	1.24
7	M	631	LEU	CA-C	-5.21	1.45	1.52
2	0	285	ALA	CA-C	-5.21	1.46	1.52
2	0	522	ALA	CA-C	-5.21	1.45	1.52
7	M	882	TYR	N-CA	-5.21	1.40	1.46
2	0	372	SER	N-CA	-5.21	1.39	1.45
5	H	441	GLN	CA-CB	5.21	1.61	1.53
7	M	1359	PHE	C-N	5.21	1.41	1.33
8	N	235	ASP	CA-C	5.21	1.58	1.53
9	Q	155	ASN	CA-C	5.21	1.59	1.52
3	1	1039	LEU	CA-C	-5.21	1.46	1.52
7	O	1064	THR	C-N	5.21	1.40	1.33
9	T	225	SER	CA-CB	5.21	1.61	1.53
8	N	36	GLN	N-CA	-5.21	1.40	1.46
3	1	100	ASP	CA-CB	5.21	1.61	1.53
5	K	436	MET	N-CA	5.21	1.52	1.46
3	Z	290	CYS	CA-CB	5.21	1.62	1.53
3	Z	599	LEU	C-N	5.21	1.40	1.33
3	Z	1385	ASP	CA-C	-5.21	1.46	1.52
7	M	953	ASN	CA-C	-5.21	1.46	1.52
7	M	1214	SER	CA-C	-5.21	1.45	1.52
7	M	1249	ILE	C-N	5.21	1.40	1.33
7	M	1607	LEU	CA-CB	5.21	1.61	1.53
9	Q	827	GLU	N-CA	5.21	1.52	1.46
9	R	534	PHE	N-CA	-5.21	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1	285	GLU	CA-C	-5.21	1.46	1.52
3	1	599	LEU	C-N	5.21	1.40	1.33
6	L	350	PHE	N-CA	-5.21	1.39	1.46
7	O	953	ASN	CA-C	-5.21	1.46	1.52
7	O	1607	LEU	CA-CB	5.21	1.61	1.53
3	Z	716	ILE	N-CA	-5.21	1.40	1.46
3	Z	722	GLN	C-N	5.21	1.39	1.33
3	Z	742	ALA	CA-CB	5.21	1.59	1.53
9	Q	345	LEU	CA-C	-5.21	1.45	1.52
9	R	319	SER	CA-C	-5.21	1.46	1.52
9	R	339	TYR	C-N	5.21	1.40	1.33
9	R	546	ARG	CA-C	5.21	1.59	1.52
4	J	662	ILE	C-N	5.21	1.40	1.33
5	K	465	ILE	CA-CB	-5.21	1.47	1.54
9	T	224	ASN	C-N	5.21	1.40	1.33
11	X	366	ALA	CA-CB	5.21	1.61	1.53
6	C	335	SER	N-CA	-5.21	1.40	1.46
8	N	591	MET	C-N	5.21	1.40	1.33
10	U	281	ARG	CD-NE	5.21	1.53	1.46
9	T	508	ILE	CB-CG1	5.21	1.63	1.53
5	H	302	ASN	CA-CB	5.20	1.59	1.53
9	T	319	SER	CA-C	-5.20	1.46	1.52
8	N	209	VAL	C-N	5.20	1.40	1.33
3	1	625	ILE	CA-C	5.20	1.60	1.52
9	T	477	TYR	CA-CB	5.20	1.61	1.53
3	Z	100	ASP	CA-CB	5.20	1.61	1.53
3	Z	868	ILE	N-CA	-5.20	1.40	1.46
5	E	436	MET	N-CA	5.20	1.52	1.46
7	M	166	GLN	CA-C	-5.20	1.46	1.52
11	V	371	GLN	N-CA	-5.20	1.39	1.46
6	L	304	LEU	C-N	5.20	1.40	1.33
6	L	465	LYS	CA-C	-5.20	1.45	1.52
7	O	1154	ARG	C-N	5.20	1.40	1.33
8	P	564	LEU	CA-C	-5.20	1.46	1.52
2	Y	970	ILE	CA-CB	5.20	1.60	1.54
2	0	761	LEU	C-N	5.20	1.41	1.33
4	J	652	ALA	CA-CB	5.20	1.61	1.53
7	O	366	ILE	N-CA	-5.20	1.39	1.46
7	O	915	ALA	CA-CB	5.20	1.61	1.53
2	Y	1470	ASP	CA-CB	5.20	1.61	1.53
3	Z	973	LYS	CA-C	-5.20	1.45	1.52
8	N	946	TRP	N-CA	-5.20	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	Q	655	THR	CA-CB	-5.20	1.45	1.53
3	1	1310	MET	CA-CB	5.20	1.61	1.53
8	P	712	LEU	N-CA	-5.20	1.40	1.46
9	S	697	PHE	CA-C	-5.20	1.45	1.52
9	S	742	LEU	N-CA	-5.20	1.39	1.46
7	M	1119	PHE	CA-C	-5.20	1.46	1.52
9	Q	464	ASN	CA-C	-5.20	1.46	1.52
9	Q	697	PHE	CA-C	-5.20	1.45	1.52
9	R	737	SER	CA-CB	5.20	1.61	1.53
3	1	943	GLU	CA-CB	5.20	1.61	1.53
7	O	1285	HIS	ND1-CE1	5.20	1.37	1.32
8	P	667	ASN	N-CA	-5.20	1.39	1.46
2	0	387	LEU	C-N	5.19	1.40	1.33
3	1	722	GLN	C-N	5.19	1.39	1.33
3	1	838	SER	C-N	5.19	1.41	1.33
7	O	552	SER	N-CA	-5.19	1.38	1.45
9	S	68	LYS	CA-CB	5.19	1.61	1.53
9	S	811	ARG	CA-C	5.19	1.59	1.52
3	Z	1257	GLY	CA-C	-5.19	1.44	1.51
7	M	271	LYS	C-O	-5.19	1.21	1.25
8	N	333	ARG	C-O	-5.19	1.17	1.24
9	R	324	ASN	CA-C	-5.19	1.45	1.52
9	R	633	GLU	CA-C	5.19	1.59	1.52
2	0	1230	PHE	C-N	5.19	1.40	1.33
3	1	284	TRP	CZ2-CH2	5.19	1.47	1.37
3	1	1385	ASP	CA-C	-5.19	1.46	1.52
4	G	708	GLU	CA-C	-5.19	1.46	1.52
5	H	464	ALA	C-N	5.19	1.40	1.33
7	O	520	ASN	C-N	5.19	1.40	1.33
7	O	591	ASP	C-N	5.19	1.40	1.33
8	P	663	MET	CA-C	-5.19	1.45	1.52
3	Z	1310	MET	CA-CB	5.19	1.61	1.53
8	N	388	ASN	C-N	5.19	1.40	1.33
8	N	564	LEU	CA-C	-5.19	1.46	1.52
8	N	1248	THR	CA-C	5.19	1.59	1.52
9	Q	823	ARG	CA-CB	5.19	1.62	1.53
7	O	831	ILE	CA-CB	-5.19	1.48	1.54
8	P	591	MET	C-N	5.19	1.40	1.33
8	P	773	LEU	C-N	5.19	1.40	1.33
2	Y	684	PHE	N-CA	-5.19	1.40	1.46
7	M	855	LEU	C-N	5.19	1.41	1.33
8	N	773	LEU	C-N	5.19	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	R	280	GLN	C-N	5.19	1.40	1.33
2	0	1123	GLN	C-N	5.19	1.41	1.33
6	I	346	ASP	CA-CB	5.19	1.61	1.53
8	P	985	GLU	CA-CB	5.19	1.61	1.53
8	N	1454	GLU	CA-CB	5.19	1.60	1.53
2	0	970	ILE	CA-CB	5.19	1.60	1.54
3	1	438	ILE	CB-CG1	5.19	1.63	1.53
6	I	307	SER	N-CA	-5.19	1.39	1.46
7	O	996	LEU	C-N	-5.19	1.27	1.33
7	O	1214	SER	CA-C	-5.19	1.45	1.52
9	S	408	ARG	CZ-NH2	5.19	1.40	1.33
7	M	538	GLU	CA-C	-5.18	1.46	1.52
7	M	1276	ASP	CA-CB	5.18	1.61	1.53
7	M	1598	PHE	CA-CB	5.18	1.61	1.53
8	N	776	TYR	N-CA	-5.18	1.40	1.46
9	Q	408	ARG	CZ-NH2	5.18	1.40	1.33
9	Q	533	ARG	CZ-NH2	5.18	1.40	1.33
2	0	685	VAL	CA-CB	5.18	1.60	1.54
8	P	671	LEU	CA-C	-5.18	1.46	1.52
6	F	304	LEU	C-N	5.18	1.40	1.33
8	N	1137	LEU	CA-C	-5.18	1.46	1.52
8	N	1441	GLN	CA-C	-5.18	1.46	1.52
9	R	622	THR	CA-C	-5.18	1.45	1.52
2	0	530	ILE	CA-C	5.18	1.58	1.52
9	T	214	ASN	CA-C	-5.18	1.46	1.52
7	O	1030	ASN	CA-CB	5.18	1.62	1.53
8	N	663	MET	CA-C	-5.18	1.45	1.52
3	1	254	ASN	N-CA	-5.18	1.39	1.46
3	1	1132	GLU	CA-CB	5.18	1.61	1.53
7	O	180	LYS	C-O	-5.18	1.18	1.24
7	O	1013	TYR	N-CA	5.18	1.52	1.45
9	T	466	ILE	CA-CB	-5.18	1.48	1.54
9	R	771	ILE	C-O	-5.18	1.18	1.24
5	H	436	MET	N-CA	-5.18	1.40	1.46
2	Y	1305	SER	C-N	5.18	1.40	1.33
7	M	949	SER	C-N	-5.18	1.27	1.33
7	M	1123	ASN	C-N	5.18	1.39	1.33
9	Q	671	ASP	C-N	5.18	1.41	1.33
2	0	894	ASN	C-N	5.18	1.40	1.33
9	S	823	ARG	CA-CB	5.18	1.62	1.53
2	Y	513	SER	N-CA	-5.17	1.39	1.46
5	B	315	LYS	CA-C	-5.17	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	N	894	VAL	CA-CB	-5.17	1.48	1.54
10	U	325	SER	N-CA	-5.17	1.40	1.46
2	0	684	PHE	N-CA	-5.17	1.40	1.46
2	0	1333	HIS	N-CA	-5.17	1.40	1.46
2	0	1351	PHE	N-CA	-5.17	1.39	1.46
3	1	1070	ASP	CA-CB	5.17	1.61	1.53
5	K	385	GLN	CA-C	-5.17	1.46	1.52
5	K	511	GLU	CA-CB	5.17	1.61	1.53
8	P	235	ASP	CA-C	5.17	1.58	1.53
8	P	617	TYR	CA-C	-5.17	1.46	1.52
8	P	1248	THR	CA-C	5.17	1.59	1.52
9	S	155	ASN	CA-C	5.17	1.59	1.52
10	W	352	GLN	N-CA	-5.17	1.39	1.46
2	Y	640	ALA	C-N	5.17	1.40	1.33
7	M	180	LYS	C-O	-5.17	1.18	1.24
8	N	29	VAL	C-O	-5.17	1.18	1.24
8	N	1252	LEU	N-CA	5.17	1.52	1.46
2	0	653	ARG	C-N	5.17	1.41	1.33
8	P	1252	LEU	N-CA	5.17	1.52	1.46
5	B	529	LYS	CA-C	-5.17	1.45	1.52
8	N	41	ARG	CA-C	-5.17	1.46	1.52
2	0	618	THR	CA-C	-5.17	1.46	1.52
3	1	1257	GLY	CA-C	-5.17	1.44	1.51
2	Y	1158	HIS	CD2-NE2	-5.17	1.32	1.37
8	P	821	THR	C-N	5.17	1.40	1.34
9	T	451	ASP	N-CA	5.17	1.52	1.45
9	Q	52	ARG	CA-C	-5.17	1.45	1.52
4	G	665	TRP	CA-C	-5.17	1.46	1.52
5	H	527	LEU	CA-CB	5.17	1.61	1.53
6	I	304	LEU	N-CA	-5.17	1.40	1.46
5	K	404	ARG	CA-C	5.17	1.59	1.52
8	P	101	PHE	N-CA	-5.17	1.40	1.46
9	T	612	HIS	CG-ND1	-5.17	1.32	1.38
10	W	325	SER	N-CA	-5.17	1.40	1.46
7	M	553	ILE	C-N	5.17	1.40	1.33
8	N	344	SER	N-CA	-5.17	1.40	1.46
2	0	773	ILE	C-N	5.17	1.40	1.33
7	O	553	ILE	C-N	5.17	1.40	1.33
7	O	1549	GLU	CA-C	-5.17	1.45	1.52
8	P	153	ASP	CA-C	-5.17	1.45	1.52
9	S	801	GLN	C-N	5.17	1.40	1.33
8	N	1484	LYS	CA-C	5.17	1.57	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1	972	ASP	C-O	-5.17	1.18	1.24
7	O	292	ASP	N-CA	-5.17	1.41	1.46
3	Z	1176	LEU	N-CA	5.16	1.52	1.46
6	F	312	VAL	N-CA	-5.16	1.40	1.46
8	N	902	GLU	CA-CB	5.16	1.61	1.53
8	N	1383	GLN	C-N	5.16	1.40	1.33
2	0	779	ARG	CD-NE	5.16	1.53	1.46
7	O	1505	HIS	CG-ND1	5.16	1.44	1.38
8	P	413	GLU	C-N	5.16	1.40	1.33
8	P	1184	LYS	CA-CB	5.16	1.61	1.53
9	T	523	ARG	CA-CB	5.16	1.62	1.53
9	T	604	ILE	N-CA	-5.16	1.40	1.46
9	T	633	GLU	CA-C	5.16	1.59	1.52
2	Y	948	ASP	CA-C	-5.16	1.46	1.52
7	O	1249	ILE	C-N	5.16	1.40	1.33
10	W	278	GLU	CA-CB	5.16	1.61	1.53
3	Z	121	LEU	CA-C	-5.16	1.46	1.52
2	0	584	GLY	CA-C	-5.16	1.46	1.52
7	O	467	LEU	C-N	5.16	1.40	1.33
9	T	636	ARG	C-N	5.16	1.40	1.33
3	Z	1118	LEU	CA-CB	5.16	1.61	1.53
5	E	379	ILE	CA-C	5.16	1.59	1.52
7	M	75	ILE	C-N	5.16	1.40	1.33
5	H	439	GLN	C-N	5.16	1.40	1.33
5	H	529	LYS	CA-C	-5.16	1.45	1.52
9	T	305	ILE	CA-CB	-5.16	1.47	1.54
9	Q	354	VAL	CA-CB	5.16	1.60	1.54
9	R	502	ASP	C-O	-5.16	1.17	1.24
7	O	179	ILE	CA-CB	-5.16	1.48	1.54
9	S	74	ALA	CA-C	-5.16	1.45	1.52
5	E	465	ILE	CA-CB	-5.16	1.47	1.54
7	M	767	ILE	CA-CB	5.16	1.59	1.54
9	R	508	ILE	CB-CG1	5.16	1.63	1.53
6	I	320	SER	CA-C	-5.16	1.46	1.52
2	0	1470	ASP	CA-CB	5.15	1.61	1.53
7	M	292	ASP	N-CA	-5.15	1.41	1.46
7	M	1565	PHE	C-N	5.15	1.40	1.33
8	N	667	ASN	N-CA	-5.15	1.39	1.46
9	T	694	SER	C-N	5.15	1.40	1.33
2	Y	266	GLN	N-CA	-5.15	1.39	1.46
7	M	591	ASP	C-N	5.15	1.40	1.33
2	0	895	ALA	CA-CB	5.15	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	S	354	VAL	CA-CB	5.15	1.60	1.54
2	Y	387	LEU	C-N	5.15	1.40	1.33
7	M	1505	HIS	CG-ND1	5.15	1.44	1.38
6	I	394	ILE	N-CA	-5.15	1.40	1.46
8	P	41	ARG	CA-C	-5.15	1.46	1.52
10	W	269	HIS	CB-CG	5.15	1.57	1.50
2	Y	859	SER	CA-C	-5.15	1.45	1.52
2	Y	1255	ILE	N-CA	5.15	1.52	1.46
7	M	915	ALA	CA-CB	5.15	1.61	1.53
9	Q	742	LEU	N-CA	-5.15	1.39	1.46
2	0	400	ARG	NE-CZ	5.15	1.38	1.33
7	O	1362	ASP	CA-CB	5.15	1.61	1.53
7	O	1609	SER	CA-CB	5.15	1.61	1.53
3	Z	1091	SER	CA-C	5.15	1.59	1.52
9	S	827	GLU	N-CA	5.15	1.52	1.46
2	Y	408	ARG	CZ-NH2	5.14	1.40	1.33
5	B	527	LEU	CA-CB	5.14	1.61	1.53
9	Q	205	ASN	N-CA	-5.14	1.39	1.46
9	Q	226	ARG	CA-CB	5.14	1.61	1.53
2	0	948	ASP	CA-C	-5.14	1.46	1.52
7	O	1285	HIS	CA-C	-5.14	1.46	1.52
8	P	908	VAL	C-O	-5.14	1.18	1.24
9	T	324	ASN	CA-C	-5.14	1.45	1.52
2	Y	849	LEU	CB-CG	5.14	1.63	1.53
5	B	330	VAL	N-CA	-5.14	1.40	1.46
9	R	288	ASN	C-N	5.14	1.41	1.33
2	0	1305	SER	C-N	5.14	1.40	1.33
5	H	330	VAL	N-CA	-5.14	1.40	1.46
7	O	800	ILE	N-CA	-5.14	1.40	1.46
7	O	1234	GLY	C-N	5.14	1.40	1.33
7	O	1478	SER	C-N	5.14	1.41	1.33
8	P	1159	ASP	CA-CB	5.14	1.59	1.52
3	Z	1379	VAL	N-CA	-5.14	1.40	1.46
5	E	511	GLU	CA-CB	5.14	1.61	1.53
8	N	671	LEU	CA-C	-5.14	1.46	1.52
9	R	473	ARG	C-N	5.14	1.40	1.33
3	1	1216	TYR	C-N	5.14	1.40	1.33
4	J	680	TYR	N-CA	-5.14	1.40	1.46
2	Y	894	ASN	C-N	5.14	1.40	1.33
5	B	459	LEU	CA-CB	5.14	1.61	1.53
5	E	385	GLN	CA-C	-5.14	1.46	1.52
7	M	1545	ARG	NE-CZ	5.14	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1	1239	ASN	CA-CB	5.14	1.61	1.53
6	L	342	GLU	CA-C	5.14	1.59	1.52
8	P	1149	ARG	NE-CZ	5.14	1.38	1.33
9	T	533	ARG	CZ-NH2	5.14	1.40	1.33
9	T	608	GLN	CA-CB	5.14	1.59	1.53
6	C	394	ILE	N-CA	-5.14	1.40	1.46
7	M	366	ILE	N-CA	-5.14	1.40	1.46
7	M	800	ILE	N-CA	-5.14	1.40	1.46
6	I	321	ALA	CA-C	5.14	1.59	1.52
9	T	760	PHE	C-N	5.14	1.41	1.33
10	W	318	TYR	CA-C	-5.14	1.46	1.52
7	M	76	SER	CA-C	-5.14	1.46	1.52
3	1	1219	LYS	CA-CB	5.14	1.61	1.53
5	H	459	LEU	CA-CB	5.14	1.61	1.53
4	J	654	HIS	CB-CG	5.14	1.57	1.50
7	O	679	ILE	N-CA	-5.14	1.40	1.46
8	P	1225	GLY	CA-C	-5.14	1.45	1.52
8	P	1532	THR	CA-CB	5.14	1.61	1.53
2	Y	896	MET	CA-CB	5.13	1.61	1.53
7	M	1233	SER	CA-CB	5.13	1.62	1.53
8	N	1247	PHE	N-CA	-5.13	1.39	1.46
9	R	121	ILE	C-N	5.13	1.40	1.33
3	1	632	ILE	CA-C	5.13	1.59	1.52
3	1	868	ILE	N-CA	-5.13	1.40	1.46
7	O	346	SER	N-CA	-5.13	1.39	1.46
7	O	349	GLU	N-CA	-5.13	1.39	1.46
7	O	885	GLU	CA-C	-5.13	1.47	1.52
8	P	998	LEU	N-CA	-5.13	1.40	1.46
9	S	655	THR	CA-CB	-5.13	1.45	1.53
9	T	303	ASN	CA-C	-5.13	1.45	1.52
8	N	1184	LYS	CA-CB	5.13	1.61	1.53
2	0	89	HIS	N-CA	5.13	1.52	1.46
3	1	192	HIS	ND1-CE1	5.13	1.37	1.32
8	P	902	GLU	CA-CB	5.13	1.61	1.53
5	B	311	PHE	N-CA	-5.13	1.40	1.47
7	M	631	LEU	C-O	-5.13	1.17	1.24
8	N	984	ASP	CA-CB	5.13	1.61	1.53
9	R	466	ILE	CA-CB	-5.13	1.48	1.54
9	R	508	ILE	CA-C	-5.13	1.46	1.52
9	R	691	ARG	CA-CB	5.13	1.61	1.53
3	1	1176	LEU	N-CA	5.13	1.52	1.46
5	K	389	LYS	N-CA	5.13	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	S	345	LEU	CA-C	-5.13	1.45	1.52
6	C	346	ASP	CA-CB	5.13	1.61	1.53
7	M	271	LYS	CA-C	-5.13	1.46	1.52
8	N	1565	ASN	N-CA	5.13	1.52	1.46
10	U	278	GLU	CA-CB	5.13	1.61	1.53
2	0	849	LEU	CB-CG	5.13	1.63	1.53
7	O	271	LYS	CA-C	-5.13	1.46	1.52
7	O	931	GLY	C-N	5.13	1.39	1.33
8	P	1126	LEU	CA-C	-5.13	1.46	1.52
2	Y	779	ARG	CD-NE	5.13	1.53	1.46
7	M	317	GLY	CA-C	-5.13	1.44	1.51
8	N	1541	LEU	C-N	5.13	1.40	1.33
9	R	603	VAL	C-N	5.13	1.40	1.33
10	U	318	TYR	CA-C	-5.13	1.46	1.52
7	O	1090	PRO	N-CD	-5.13	1.40	1.47
8	P	666	PRO	C-N	5.13	1.40	1.33
8	P	894	VAL	CA-CB	-5.13	1.48	1.54
10	W	276	ILE	CA-CB	-5.13	1.48	1.54
7	M	1569	TYR	N-CA	-5.13	1.39	1.46
2	0	578	VAL	N-CA	-5.13	1.40	1.46
2	0	910	LEU	C-N	5.13	1.41	1.33
3	1	1087	ARG	CZ-NH2	5.13	1.40	1.33
6	L	312	VAL	N-CA	-5.13	1.40	1.46
9	S	671	ASP	C-N	5.13	1.41	1.33
9	Q	730	LYS	C-N	5.12	1.40	1.33
7	O	855	LEU	C-N	5.12	1.41	1.33
8	P	1484	LYS	CA-C	5.12	1.57	1.52
2	Y	108	ILE	CA-CB	-5.12	1.48	1.54
2	Y	1230	PHE	CA-CB	5.12	1.61	1.53
3	Z	863	ILE	CA-C	-5.12	1.46	1.52
3	Z	1216	TYR	C-N	5.12	1.40	1.33
2	0	1137	ASP	CA-C	5.12	1.59	1.52
4	J	702	ARG	CD-NE	5.12	1.53	1.46
7	O	1123	ASN	C-N	5.12	1.39	1.33
3	Z	838	SER	C-N	5.12	1.40	1.33
3	Z	1239	ASN	CA-CB	5.12	1.61	1.53
4	D	654	HIS	CB-CG	5.12	1.57	1.50
7	M	350	ARG	CA-C	-5.12	1.48	1.52
8	N	183	SER	N-CA	-5.12	1.40	1.46
8	N	747	ILE	N-CA	-5.12	1.40	1.46
8	N	1169	ALA	CA-C	-5.12	1.46	1.53
7	O	350	ARG	CA-C	-5.12	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	O	520	ASN	CA-C	-5.12	1.46	1.52
4	D	807	LEU	C-O	-5.12	1.17	1.24
3	1	1370	GLU	C-N	-5.12	1.26	1.33
5	H	470	ALA	N-CA	5.12	1.52	1.46
6	I	313	ALA	CA-C	-5.12	1.45	1.52
6	I	406	PHE	C-N	5.12	1.40	1.33
2	Y	685	VAL	CA-CB	5.12	1.60	1.54
3	Z	130	GLY	N-CA	-5.12	1.38	1.45
3	Z	994	ARG	NE-CZ	5.12	1.38	1.33
5	B	302	ASN	CA-CB	5.12	1.59	1.53
9	Q	488	TYR	N-CA	-5.12	1.40	1.46
8	P	29	VAL	C-O	-5.12	1.18	1.24
8	P	1137	LEU	CA-C	-5.12	1.46	1.52
9	R	774	LEU	CA-C	-5.12	1.46	1.52
8	P	747	ILE	N-CA	-5.12	1.40	1.46
2	Y	410	ALA	CA-CB	5.12	1.61	1.53
3	Z	905	ARG	CA-C	-5.12	1.46	1.52
7	M	346	SER	N-CA	-5.12	1.39	1.46
7	M	1030	ASN	CA-CB	5.12	1.62	1.53
8	P	484	ASN	C-N	5.12	1.40	1.33
9	S	658	ASN	CA-CB	5.12	1.61	1.53
4	D	814	LEU	CA-C	-5.11	1.46	1.52
8	N	550	SER	CA-CB	5.11	1.62	1.53
9	Q	74	ALA	CA-C	-5.11	1.45	1.52
9	Q	209	ARG	NE-CZ	5.11	1.38	1.33
4	J	814	LEU	CA-C	-5.11	1.46	1.52
9	S	705	GLN	C-N	5.11	1.40	1.33
9	S	730	LYS	C-N	5.11	1.40	1.33
3	Z	85	LEU	CA-C	-5.11	1.46	1.52
8	N	43	PHE	CA-C	-5.11	1.46	1.52
9	R	225	SER	CA-CB	5.11	1.61	1.53
3	1	863	ILE	CA-C	-5.11	1.46	1.52
8	P	752	SER	N-CA	5.11	1.52	1.45
8	N	666	PRO	C-N	5.11	1.40	1.33
9	Q	584	LYS	CA-C	5.11	1.59	1.53
2	0	1230	PHE	CA-CB	5.11	1.61	1.53
2	0	1242	PHE	C-N	5.11	1.40	1.33
9	T	508	ILE	CA-C	-5.11	1.46	1.52
3	Z	1000	LYS	C-N	5.11	1.40	1.33
7	M	428	GLN	C-N	5.11	1.40	1.33
2	0	384	GLU	CA-C	-5.11	1.46	1.52
2	0	896	MET	CA-CB	5.11	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	X	291	PHE	C-N	5.11	1.39	1.33
4	D	702	ARG	CD-NE	5.11	1.53	1.46
8	N	821	THR	C-N	5.11	1.40	1.34
3	1	905	ARG	CA-C	-5.11	1.46	1.52
7	O	485	ILE	CA-CB	5.11	1.60	1.54
7	O	1359	PHE	C-N	5.11	1.40	1.33
9	S	621	HIS	ND1-CE1	5.11	1.37	1.32
9	S	729	ASN	CA-CB	5.11	1.62	1.53
2	Y	384	GLU	CA-C	-5.11	1.46	1.52
7	M	438	VAL	C-N	5.11	1.40	1.33
9	Q	279	GLU	N-CA	5.11	1.52	1.46
2	0	410	ALA	CA-CB	5.11	1.61	1.53
2	0	1158	HIS	CD2-NE2	-5.11	1.32	1.37
9	T	737	SER	CA-CB	5.11	1.61	1.53
9	R	451	ASP	N-CA	5.10	1.52	1.45
9	R	533	ARG	CZ-NH2	5.10	1.40	1.33
8	P	50	ASN	C-N	5.10	1.40	1.33
5	B	436	MET	N-CA	-5.10	1.40	1.46
5	B	439	GLN	C-N	5.10	1.40	1.33
7	M	352	ILE	CA-CB	5.10	1.58	1.54
9	R	530	ARG	CD-NE	5.10	1.53	1.46
2	0	256	VAL	C-O	-5.10	1.18	1.24
2	0	1470	ASP	C-N	5.10	1.40	1.33
3	1	842	GLU	CA-C	5.10	1.59	1.52
3	1	1183	ILE	CB-CG1	5.10	1.63	1.53
5	H	362	ASN	CA-C	5.10	1.59	1.52
4	J	807	LEU	C-O	-5.10	1.17	1.24
8	P	322	HIS	C-O	-5.10	1.18	1.24
8	P	1247	PHE	N-CA	-5.10	1.39	1.46
3	Z	720	PHE	CA-C	-5.10	1.45	1.52
5	E	301	PRO	CA-C	5.10	1.59	1.52
7	M	1006	LEU	N-CA	-5.10	1.40	1.46
3	1	85	LEU	CA-C	-5.10	1.46	1.52
3	1	1000	LYS	C-N	5.10	1.40	1.33
7	O	295	ARG	CZ-NH2	5.10	1.40	1.33
7	O	1233	SER	CA-CB	5.10	1.62	1.53
9	S	311	THR	CA-C	-5.10	1.46	1.52
9	S	427	ALA	C-N	5.10	1.38	1.33
7	M	492	ARG	CA-C	-5.10	1.46	1.52
8	N	1489	PRO	N-CA	-5.10	1.40	1.47
9	R	305	ILE	CA-CB	-5.10	1.47	1.54
10	U	269	HIS	CB-CG	5.10	1.57	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	O	767	ILE	CA-CB	5.10	1.59	1.54
8	P	1457	ALA	N-CA	-5.10	1.40	1.46
8	P	1489	PRO	N-CA	-5.10	1.40	1.47
9	S	341	LEU	N-CA	5.10	1.52	1.46
9	T	530	ARG	CD-NE	5.10	1.53	1.46
2	Y	1312	ALA	CA-C	-5.10	1.46	1.52
2	Y	1333	HIS	CB-CG	5.10	1.57	1.50
8	N	219	GLN	N-CA	-5.10	1.39	1.46
9	R	746	PRO	CA-CB	5.10	1.59	1.54
2	0	1333	HIS	CB-CG	5.10	1.57	1.50
8	P	262	SER	N-CA	-5.10	1.40	1.46
3	Z	842	GLU	CA-C	5.09	1.59	1.52
7	M	355	LEU	C-N	5.09	1.39	1.33
7	M	737	PRO	CA-C	5.09	1.57	1.52
8	N	1297	LYS	CA-C	-5.09	1.46	1.52
2	0	513	SER	N-CA	-5.09	1.40	1.46
3	1	1118	LEU	CA-CB	5.09	1.61	1.53
6	L	322	THR	C-N	5.09	1.41	1.34
7	O	317	GLY	CA-C	-5.09	1.44	1.51
7	O	1672	MET	C-N	5.09	1.40	1.33
8	P	1297	LYS	CA-C	-5.09	1.46	1.52
7	M	302	PHE	CA-CB	5.09	1.61	1.53
6	I	447	PHE	CG-CD1	5.09	1.49	1.38
7	O	76	SER	CA-C	-5.09	1.46	1.52
8	P	1565	ASN	N-CA	5.09	1.52	1.46
3	Z	1142	ASP	N-CA	-5.09	1.39	1.46
8	P	521	PRO	CA-CB	5.09	1.61	1.53
8	N	908	VAL	C-O	-5.09	1.18	1.24
9	R	425	ILE	CB-CG1	5.09	1.63	1.53
2	0	436	LEU	CB-CG	5.09	1.63	1.53
7	O	428	GLN	C-N	5.09	1.40	1.33
8	P	1266	LYS	C-N	5.09	1.40	1.33
9	S	52	ARG	CA-C	-5.09	1.46	1.52
7	O	526	PHE	C-O	-5.09	1.18	1.24
8	P	734	SER	CA-CB	5.09	1.61	1.53
2	Y	1137	ASP	CA-C	5.09	1.59	1.52
3	Z	251	LEU	C-N	5.09	1.40	1.33
4	D	696	SER	C-N	5.09	1.41	1.33
9	Q	250	ASN	C-N	5.09	1.40	1.33
9	Q	658	ASN	CA-CB	5.09	1.61	1.53
9	Q	801	GLN	C-N	5.09	1.40	1.33
3	1	121	LEU	CA-C	-5.09	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	P	556	LEU	CA-CB	5.09	1.60	1.53
8	P	1577	ASP	CA-CB	5.09	1.61	1.53
8	N	800	ASN	C-N	5.08	1.40	1.33
8	N	902	GLU	C-N	5.08	1.40	1.33
9	Q	687	LEU	C-N	5.08	1.40	1.33
9	Q	723	ILE	N-CA	-5.08	1.40	1.46
9	R	19	ASN	CA-CB	5.08	1.61	1.53
7	O	352	ILE	CA-CB	5.08	1.58	1.54
8	P	540	GLN	N-CA	-5.08	1.39	1.46
8	P	984	ASP	CA-CB	5.08	1.61	1.53
9	T	746	PRO	CA-CB	5.08	1.59	1.54
3	Z	582	THR	CA-CB	5.08	1.61	1.52
5	B	377	ASN	N-CA	-5.08	1.40	1.46
7	M	384	MET	N-CA	-5.08	1.40	1.46
7	M	1234	GLY	C-N	5.08	1.40	1.33
9	Q	67	THR	N-CA	-5.08	1.40	1.46
9	Q	729	ASN	CA-CB	5.08	1.62	1.53
8	P	183	SER	N-CA	-5.08	1.40	1.46
9	S	67	THR	N-CA	-5.08	1.40	1.46
2	Y	1470	ASP	C-N	5.08	1.40	1.33
3	Z	632	ILE	CA-C	5.08	1.59	1.52
3	Z	1219	LYS	CA-CB	5.08	1.61	1.53
7	M	109	ARG	CA-C	-5.08	1.46	1.52
8	N	734	SER	CA-CB	5.08	1.61	1.53
8	N	783	PHE	C-N	5.08	1.41	1.33
8	N	1457	ALA	N-CA	-5.08	1.40	1.46
2	0	108	ILE	CA-CB	-5.08	1.48	1.54
8	N	126	THR	C-N	5.08	1.40	1.33
8	N	556	LEU	CA-CB	5.08	1.60	1.53
9	S	19	ASN	CA-CB	5.08	1.61	1.53
7	M	671	PHE	N-CA	-5.08	1.40	1.46
7	M	1362	ASP	CA-CB	5.08	1.61	1.53
7	M	1549	GLU	CA-C	-5.08	1.45	1.52
8	N	617	TYR	CA-C	-5.08	1.46	1.52
8	N	712	LEU	N-CA	-5.08	1.40	1.46
3	1	720	PHE	CA-C	-5.08	1.45	1.52
7	O	606	VAL	CA-C	-5.08	1.46	1.52
8	P	783	PHE	C-N	5.08	1.41	1.33
5	E	287	GLN	C-N	5.08	1.39	1.34
6	F	314	TYR	CA-CB	5.08	1.61	1.53
7	M	520	ASN	CA-C	-5.08	1.46	1.52
9	R	523	ARG	CA-CB	5.08	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	S	209	ARG	NE-CZ	5.08	1.38	1.33
3	Z	972	ASP	C-O	-5.08	1.18	1.24
7	M	885	GLU	CA-C	-5.08	1.48	1.52
7	M	986	LEU	CA-C	5.08	1.59	1.52
8	N	540	GLN	N-CA	-5.08	1.40	1.46
8	N	1532	THR	CA-CB	5.08	1.61	1.53
9	Q	465	ILE	CA-C	-5.08	1.46	1.52
3	1	211	PRO	CA-C	-5.08	1.46	1.52
6	L	385	GLU	CA-C	-5.08	1.46	1.52
7	O	302	PHE	CA-CB	5.08	1.61	1.53
7	O	632	SER	C-N	5.08	1.40	1.33
7	O	864	LEU	N-CA	-5.08	1.40	1.46
8	P	550	SER	CA-CB	5.08	1.62	1.53
9	S	488	TYR	N-CA	-5.08	1.40	1.46
9	S	681	SER	CA-CB	5.08	1.62	1.53
2	Y	677	GLU	N-CA	-5.07	1.40	1.46
7	M	606	VAL	CA-C	-5.07	1.46	1.52
7	M	864	LEU	N-CA	-5.07	1.40	1.46
9	R	303	ASN	CA-C	-5.07	1.45	1.52
2	0	940	VAL	CA-C	-5.07	1.46	1.52
3	1	1021	ILE	CA-C	5.07	1.59	1.52
7	O	717	ILE	CB-CG1	5.07	1.63	1.53
2	Y	1230	PHE	C-N	5.07	1.40	1.33
5	B	362	ASN	CA-C	5.07	1.59	1.52
6	C	447	PHE	CG-CD1	5.07	1.49	1.38
6	F	463	LYS	CA-CB	5.07	1.61	1.53
2	0	408	ARG	CZ-NH2	5.07	1.40	1.33
5	H	529	LYS	C-O	-5.07	1.17	1.24
8	P	1070	LYS	CA-C	5.07	1.59	1.52
8	P	1259	PHE	C-N	5.07	1.40	1.33
9	R	439	HIS	CG-ND1	-5.07	1.32	1.38
5	H	315	LYS	CA-C	-5.07	1.46	1.52
7	O	492	ARG	CA-C	-5.07	1.46	1.52
8	P	800	ASN	C-N	5.07	1.40	1.33
2	Y	1324	ILE	N-CA	-5.07	1.40	1.46
3	1	1142	ASP	N-CA	-5.07	1.39	1.46
7	O	57	GLU	CA-CB	5.07	1.60	1.53
8	P	1034	ILE	CB-CG1	5.07	1.63	1.53
9	T	473	ARG	C-N	5.07	1.40	1.33
9	T	534	PHE	N-CA	-5.07	1.40	1.46
2	Y	1318	HIS	C-N	5.07	1.40	1.33
7	M	244	LEU	C-O	5.07	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	N	652	THR	CA-C	5.07	1.59	1.52
8	N	1159	ASP	CA-CB	5.07	1.59	1.52
8	N	1284	ILE	C-N	5.07	1.40	1.33
2	0	677	GLU	N-CA	-5.07	1.40	1.46
3	1	994	ARG	NE-CZ	5.07	1.38	1.33
5	K	457	ASN	C-N	5.07	1.40	1.33
7	O	737	PRO	CA-C	5.07	1.57	1.52
8	P	126	THR	C-N	5.07	1.40	1.33
8	P	209	VAL	C-N	5.07	1.40	1.33
7	M	1038	LEU	C-N	5.06	1.40	1.33
5	H	392	LEU	CB-CG	5.06	1.63	1.53
8	P	1326	ASP	CA-CB	5.06	1.61	1.53
9	S	226	ARG	CA-CB	5.06	1.61	1.53
2	Y	260	HIS	ND1-CE1	5.06	1.37	1.32
7	M	467	LEU	C-N	5.06	1.40	1.33
2	0	1312	ALA	CA-C	-5.06	1.46	1.52
3	1	251	LEU	C-N	5.06	1.40	1.33
7	O	1629	LEU	CA-C	-5.06	1.46	1.52
3	Z	192	HIS	ND1-CE1	5.06	1.37	1.32
5	B	470	ALA	N-CA	5.06	1.52	1.46
4	D	645	THR	CA-C	5.06	1.59	1.52
9	R	371	PHE	CG-CD1	5.06	1.49	1.38
3	1	582	THR	CA-CB	5.06	1.61	1.52
2	Y	1150	LEU	CA-C	-5.06	1.46	1.52
2	Y	1425	LYS	CA-CB	-5.06	1.45	1.53
8	N	998	LEU	N-CA	-5.06	1.40	1.46
7	O	172	ASN	CA-CB	5.06	1.61	1.53
5	B	462	ARG	NE-CZ	5.06	1.38	1.33
7	M	467	LEU	C-O	5.06	1.30	1.24
7	M	801	PRO	C-N	5.06	1.41	1.33
7	M	931	GLY	C-N	5.06	1.39	1.33
2	0	227	ALA	C-N	5.06	1.40	1.33
5	K	411	ARG	CZ-NH2	5.06	1.40	1.33
7	O	355	LEU	C-N	5.06	1.39	1.33
9	T	371	PHE	CG-CD1	5.06	1.49	1.38
3	Z	1370	GLU	C-N	-5.06	1.27	1.33
5	B	535	LYS	CA-CB	5.06	1.61	1.53
6	F	295	LYS	CA-CB	5.06	1.61	1.53
8	N	1126	LEU	CA-C	-5.06	1.46	1.52
9	Q	681	SER	CA-CB	5.06	1.62	1.53
7	O	1565	PHE	C-N	5.06	1.40	1.33
2	Y	436	LEU	CB-CG	5.05	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	1240	ASN	CA-C	-5.05	1.46	1.52
3	Z	1087	ARG	CZ-NH2	5.05	1.40	1.33
6	C	320	SER	CA-C	-5.05	1.46	1.52
7	M	1478	SER	C-N	5.05	1.41	1.33
7	M	1670	ILE	CA-CB	5.05	1.60	1.54
8	N	50	ASN	C-N	5.05	1.40	1.33
2	0	576	LEU	C-N	5.05	1.40	1.33
8	P	902	GLU	C-N	5.05	1.40	1.33
8	P	963	LYS	CA-CB	5.05	1.59	1.53
9	T	19	ASN	CA-CB	5.05	1.61	1.53
2	Y	788	HIS	ND1-CE1	5.05	1.37	1.32
8	N	322	HIS	C-O	-5.05	1.18	1.24
8	N	1281	MET	CA-C	-5.05	1.46	1.52
8	N	1577	ASP	CA-CB	5.05	1.61	1.53
3	1	436	GLY	N-CA	5.05	1.49	1.45
8	P	633	SER	C-N	5.05	1.39	1.33
2	Y	910	LEU	C-N	5.05	1.40	1.33
2	Y	1060	TYR	CA-CB	5.05	1.59	1.53
7	M	193	LEU	N-CA	-5.05	1.40	1.46
8	N	385	PHE	C-N	5.05	1.41	1.33
2	0	467	PHE	CA-CB	5.05	1.61	1.53
3	1	130	GLY	N-CA	-5.05	1.38	1.45
7	O	384	MET	N-CA	-5.05	1.40	1.46
9	T	774	LEU	CA-C	-5.05	1.46	1.52
4	D	679	LEU	C-N	5.05	1.40	1.33
7	M	240	LEU	CA-C	-5.05	1.46	1.52
11	V	291	PHE	C-N	5.05	1.39	1.33
5	K	309	ARG	CD-NE	5.05	1.53	1.46
6	L	295	LYS	CA-CB	5.05	1.61	1.53
5	E	389	LYS	N-CA	5.05	1.52	1.46
7	M	526	PHE	C-O	-5.05	1.18	1.24
8	N	870	PRO	N-CA	-5.05	1.41	1.47
2	0	788	HIS	ND1-CE1	5.05	1.37	1.32
8	P	652	THR	CA-C	5.05	1.59	1.52
2	Y	467	PHE	CA-CB	5.05	1.61	1.53
7	M	763	HIS	CA-CB	5.05	1.59	1.52
8	N	1149	ARG	NE-CZ	5.05	1.38	1.33
8	P	1541	LEU	C-N	5.05	1.40	1.33
9	S	313	LEU	C-N	5.05	1.40	1.33
9	S	776	ILE	C-O	-5.05	1.18	1.24
9	T	722	SER	CA-C	-5.05	1.46	1.52
7	M	1609	SER	CA-CB	5.04	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	578	VAL	N-CA	-5.04	1.40	1.46
4	A	760	SER	C-N	5.04	1.40	1.33
7	M	632	SER	C-N	5.04	1.40	1.33
8	N	413	GLU	C-N	5.04	1.40	1.33
8	N	888	TYR	C-N	5.04	1.40	1.33
3	1	202	LEU	N-CA	-5.04	1.39	1.46
3	1	1091	SER	CA-C	5.04	1.58	1.52
2	Y	1308	PHE	CA-CB	5.04	1.61	1.53
3	Z	302	ILE	CA-C	5.04	1.58	1.52
7	M	57	GLU	CA-CB	5.04	1.60	1.53
7	M	1259	SER	CA-CB	5.04	1.61	1.53
8	N	1383	GLN	CA-C	-5.04	1.46	1.52
5	H	377	ASN	N-CA	-5.04	1.40	1.46
8	P	385	PHE	C-N	5.04	1.40	1.33
8	P	717	VAL	C-N	5.04	1.40	1.33
9	S	491	ALA	N-CA	5.04	1.52	1.46
9	R	612	HIS	CG-ND1	-5.04	1.32	1.38
3	1	96	GLU	C-N	5.04	1.40	1.33
3	Z	211	PRO	CA-C	-5.04	1.46	1.52
3	Z	611	ILE	CA-C	-5.04	1.46	1.52
5	B	332	GLN	CD-NE2	5.04	1.43	1.33
8	N	1477	ALA	C-N	5.04	1.40	1.33
9	Q	288	ASN	N-CA	-5.04	1.40	1.46
9	R	760	PHE	C-N	5.04	1.40	1.33
8	P	888	TYR	C-N	5.04	1.40	1.33
3	Z	96	GLU	C-N	5.04	1.40	1.33
4	D	680	TYR	N-CA	-5.04	1.40	1.46
7	M	172	ASN	CA-CB	5.04	1.61	1.53
8	N	717	VAL	C-N	5.04	1.40	1.33
9	T	217	ARG	NE-CZ	5.04	1.38	1.33
6	F	440	VAL	CA-C	-5.04	1.47	1.52
8	N	521	PRO	CA-CB	5.04	1.60	1.53
8	N	752	SER	N-CA	5.04	1.52	1.45
8	N	1388	LEU	C-N	5.04	1.40	1.33
2	0	371	LEU	CA-C	-5.04	1.46	1.52
2	0	1318	HIS	C-N	5.04	1.40	1.33
3	1	229	ASP	C-N	5.04	1.40	1.33
5	H	352	ILE	CA-C	-5.04	1.46	1.52
3	Z	1161	HIS	C-O	5.03	1.30	1.24
3	Z	1230	ASP	CA-CB	5.03	1.61	1.53
5	B	392	LEU	CB-CG	5.03	1.63	1.53
6	F	291	SER	CA-C	-5.03	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	F	322	THR	C-N	5.03	1.41	1.34
7	M	489	TYR	C-N	5.03	1.40	1.33
7	M	1229	ASN	CA-CB	5.03	1.60	1.53
8	N	1070	LYS	CA-C	5.03	1.59	1.52
9	Q	313	LEU	C-N	5.03	1.40	1.33
9	Q	605	GLU	CA-C	-5.03	1.46	1.52
2	0	576	LEU	CA-CB	5.03	1.61	1.53
2	0	859	SER	CA-C	-5.03	1.46	1.52
5	K	375	ILE	N-CA	-5.03	1.40	1.46
5	K	419	LEU	CA-C	-5.03	1.45	1.52
7	O	839	SER	CA-CB	5.03	1.61	1.53
8	P	870	PRO	N-CA	-5.03	1.41	1.47
8	P	1284	ILE	C-N	5.03	1.40	1.33
9	S	381	GLY	N-CA	-5.03	1.40	1.45
2	0	1425	LYS	CA-CB	-5.03	1.45	1.53
7	O	685	LEU	N-CA	5.03	1.51	1.45
2	Y	371	LEU	CA-C	-5.03	1.46	1.52
4	D	662	ILE	C-N	5.03	1.40	1.33
7	M	320	GLU	CA-CB	5.03	1.61	1.53
7	M	1629	LEU	CA-C	-5.03	1.46	1.52
8	N	783	PHE	CA-C	-5.03	1.46	1.52
2	0	1308	PHE	CA-CB	5.03	1.61	1.53
8	P	783	PHE	CA-C	-5.03	1.46	1.52
9	T	548	SER	CA-CB	5.03	1.61	1.53
9	T	603	VAL	C-N	5.03	1.40	1.33
2	Y	576	LEU	C-N	5.03	1.40	1.33
5	K	287	GLN	C-N	5.03	1.39	1.34
8	P	349	PHE	C-N	5.03	1.40	1.33
9	S	465	ILE	CA-C	-5.03	1.46	1.52
2	Y	940	VAL	CA-C	-5.03	1.46	1.52
7	M	1088	ARG	NE-CZ	5.03	1.38	1.33
7	M	1272	LEU	N-CA	-5.03	1.40	1.46
2	Y	773	ILE	C-N	5.03	1.40	1.33
6	C	406	PHE	C-N	5.03	1.40	1.33
10	U	352	GLN	N-CA	-5.03	1.40	1.46
8	P	1548	ILE	CA-C	-5.03	1.46	1.52
9	T	170	ASP	C-N	5.03	1.40	1.33
9	T	425	ILE	CB-CG1	5.03	1.63	1.53
7	M	1477	ASP	CA-C	-5.02	1.46	1.52
8	N	1490	ARG	C-N	5.02	1.40	1.34
7	M	349	GLU	N-CA	-5.02	1.40	1.46
7	M	594	ALA	CA-C	-5.02	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	N	1034	ILE	CB-CG1	5.02	1.63	1.53
9	Q	201	ASN	N-CA	-5.02	1.39	1.45
9	Q	311	THR	CA-C	-5.02	1.46	1.52
2	0	1060	TYR	CA-CB	5.02	1.59	1.53
5	H	462	ARG	NE-CZ	5.02	1.38	1.33
7	O	274	LYS	C-N	5.02	1.40	1.33
7	O	1259	SER	CA-CB	5.02	1.61	1.53
8	P	862	ARG	N-CA	-5.02	1.40	1.46
5	B	352	ILE	CA-C	-5.02	1.46	1.52
7	M	1672	MET	C-N	5.02	1.40	1.33
8	N	559	PHE	C-N	5.02	1.40	1.33
3	Z	614	TYR	C-N	5.02	1.40	1.33
3	Z	1243	ASP	N-CA	-5.02	1.39	1.46
2	0	1150	LEU	CA-C	-5.02	1.46	1.52
3	1	1078	GLN	N-CA	5.02	1.52	1.46
6	L	399	ASN	CA-CB	5.02	1.61	1.53
7	O	1477	ASP	CA-C	-5.02	1.46	1.52
8	P	1383	GLN	CA-C	-5.02	1.46	1.52
9	S	551	ARG	N-CA	-5.02	1.40	1.46
7	M	679	ILE	N-CA	-5.02	1.40	1.46
8	N	1533	ILE	CA-C	5.02	1.59	1.52
9	Q	820	ILE	CA-C	-5.02	1.44	1.52
2	0	1240	ASN	CA-C	-5.02	1.46	1.52
5	H	332	GLN	CD-NE2	5.02	1.43	1.33
9	Q	490	LEU	CA-CB	5.02	1.61	1.53
5	H	397	ARG	CA-C	-5.02	1.46	1.52
8	P	1388	LEU	C-N	5.02	1.40	1.33
8	P	1441	GLN	CA-C	-5.02	1.46	1.52
2	Y	1046	LYS	CA-CB	5.01	1.61	1.53
3	Z	364	ARG	CD-NE	5.01	1.53	1.46
6	C	321	ALA	CA-C	5.01	1.59	1.52
6	F	399	ASN	CA-CB	5.01	1.61	1.53
8	N	251	SER	C-N	5.01	1.40	1.33
9	R	704	ARG	CD-NE	5.01	1.53	1.46
2	0	506	LEU	CA-CB	5.01	1.61	1.53
7	O	193	LEU	N-CA	-5.01	1.40	1.46
8	P	947	ASN	CA-C	-5.01	1.46	1.52
2	Y	356	ILE	CA-C	-5.01	1.46	1.52
4	A	799	SER	C-N	5.01	1.41	1.33
10	U	276	ILE	CA-CB	-5.01	1.48	1.54
4	G	799	SER	C-N	5.01	1.41	1.33
7	O	1230	LYS	CA-C	-5.01	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	506	LEU	CA-CB	5.01	1.61	1.53
5	E	411	ARG	CZ-NH2	5.01	1.40	1.33
7	M	295	ARG	CZ-NH2	5.01	1.40	1.33
7	M	943	ARG	N-CA	-5.01	1.40	1.46
7	M	1667	VAL	C-N	5.01	1.40	1.33
9	R	816	TYR	CA-CB	5.01	1.61	1.53
6	L	346	ASP	CA-CB	5.01	1.61	1.53
7	O	240	LEU	CA-C	-5.01	1.46	1.52
7	M	799	SER	C-N	5.01	1.39	1.33
7	M	1285	HIS	CA-C	-5.01	1.46	1.52
8	N	476	ASP	CA-C	5.01	1.58	1.52
7	O	264	LYS	CA-C	-5.01	1.45	1.52
7	O	986	LEU	CA-C	5.01	1.59	1.52
8	P	186	LYS	N-CA	5.01	1.52	1.46
8	P	463	PHE	CA-C	-5.01	1.46	1.52
8	P	991	LYS	CA-C	-5.01	1.45	1.52
9	T	518	ILE	C-N	5.01	1.40	1.33
2	Y	173	MET	CG-SD	5.01	1.93	1.80
2	Y	385	LYS	N-CA	5.01	1.51	1.46
2	Y	447	TYR	CB-CG	5.01	1.62	1.51
3	Z	1235	GLN	CA-C	-5.01	1.46	1.52
7	M	839	SER	CA-CB	5.01	1.61	1.53
3	1	791	GLU	CA-C	-5.01	1.46	1.52
7	O	489	TYR	C-N	5.01	1.40	1.33
7	O	822	CYS	N-CA	-5.01	1.39	1.45
2	Y	867	TYR	N-CA	-5.01	1.40	1.46
8	N	463	PHE	CA-C	-5.01	1.46	1.52
9	Q	341	LEU	N-CA	5.01	1.52	1.46
7	O	594	ALA	CA-C	-5.01	1.46	1.52
8	P	422	GLU	CA-C	-5.01	1.46	1.52
2	Y	227	ALA	C-N	5.00	1.40	1.33
3	Z	1021	ILE	CA-C	5.00	1.58	1.52
5	B	451	ALA	CA-C	-5.00	1.46	1.52
2	Y	1015	GLU	CA-CB	5.00	1.61	1.53
5	E	309	ARG	CD-NE	5.00	1.53	1.46
9	Q	587	THR	N-CA	-5.00	1.40	1.46
9	R	722	SER	CA-C	-5.00	1.46	1.52
3	1	1379	VAL	N-CA	-5.00	1.40	1.46
8	P	559	PHE	C-N	5.00	1.40	1.33
9	S	587	THR	N-CA	-5.00	1.40	1.46
9	S	768	VAL	N-CA	-5.00	1.41	1.46
8	N	1548	ILE	CA-C	-5.00	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	0	447	TYR	CB-CG	5.00	1.62	1.51
7	O	1451	THR	C-N	5.00	1.40	1.33
9	S	755	LYS	N-CA	-5.00	1.40	1.46

All (9917) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	67	ASP	N-CA-C	-19.61	79.22	110.20
8	N	68	HIS	N-CA-CB	18.77	142.22	110.49
8	P	68	HIS	N-CA-CB	18.24	141.32	110.49
8	P	67	ASP	N-CA-C	-17.30	80.89	109.96
2	Y	1465	ILE	N-CA-C	-15.72	98.04	111.56
2	0	1465	ILE	N-CA-C	-15.72	98.04	111.56
5	B	323	LEU	CA-CB-CG	15.44	170.32	116.30
8	P	388	ASN	CA-CB-CG	-13.63	98.97	112.60
8	N	388	ASN	CA-CB-CG	-13.62	98.98	112.60
7	M	679	ILE	N-CA-C	-13.12	100.37	113.10
7	O	679	ILE	N-CA-C	-13.10	100.40	113.10
9	S	191	ASN	CA-C-N	12.92	136.84	120.56
9	S	191	ASN	C-N-CA	12.92	136.84	120.56
9	Q	191	ASN	CA-C-N	12.88	136.79	120.56
9	Q	191	ASN	C-N-CA	12.88	136.79	120.56
8	P	613	GLU	CB-CG-CD	12.63	134.07	112.60
8	N	613	GLU	CB-CG-CD	12.62	134.05	112.60
7	O	430	PHE	CA-CB-CG	12.30	126.10	113.80
3	1	1032	ILE	N-CA-C	-12.30	100.66	112.96
3	Z	1032	ILE	N-CA-C	-12.26	100.70	112.96
7	M	430	PHE	CA-CB-CG	12.26	126.06	113.80
8	N	1605	PHE	CA-CB-CG	-12.10	101.70	113.80
8	P	1605	PHE	CA-CB-CG	-12.03	101.77	113.80
3	1	1213	LEU	CA-C-O	11.98	134.45	119.95
9	T	398	ILE	N-CA-C	-11.94	101.29	111.56
9	R	398	ILE	N-CA-C	-11.87	101.35	111.56
8	N	1617	ILE	CA-C-O	-11.72	112.24	119.51
3	1	127	ASP	CA-CB-CG	11.69	124.29	112.60
3	Z	127	ASP	CA-CB-CG	11.67	124.27	112.60
8	P	1617	ILE	CA-C-O	-11.66	112.28	119.51
7	M	828	PHE	CA-CB-CG	-11.30	102.50	113.80
2	Y	617	ALA	N-CA-C	-11.28	97.25	112.03
7	O	828	PHE	CA-CB-CG	-11.28	102.52	113.80
7	O	1572	ASN	N-CA-C	-11.27	87.84	108.24
2	0	617	ALA	N-CA-C	-11.26	97.28	112.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	1572	ASN	N-CA-C	-11.24	87.90	108.24
2	0	606	GLN	N-CA-C	-11.22	97.08	112.12
2	Y	606	GLN	N-CA-C	-11.19	97.13	112.12
7	O	1037	ASN	CA-CB-CG	-11.17	101.43	112.60
7	O	64	PHE	CA-CB-CG	-11.16	102.64	113.80
7	M	64	PHE	CA-CB-CG	-11.14	102.66	113.80
7	M	1037	ASN	CA-CB-CG	-11.11	101.50	112.60
6	L	460	LEU	N-CA-C	11.02	123.37	111.36
9	T	699	ASN	CA-CB-CG	-11.01	101.59	112.60
6	F	460	LEU	N-CA-C	10.97	123.32	111.36
9	R	699	ASN	CA-CB-CG	-10.96	101.64	112.60
3	1	1248	ALA	CA-C-N	10.90	133.46	119.84
3	1	1248	ALA	C-N-CA	10.90	133.46	119.84
3	1	1213	LEU	CB-CA-C	-10.88	93.39	111.02
7	O	749	ILE	N-CA-C	-10.88	101.83	112.17
3	1	970	PHE	CA-CB-CG	10.87	124.67	113.80
7	M	749	ILE	N-CA-C	-10.83	101.88	112.17
3	Z	1248	ALA	CA-C-N	10.81	133.36	119.84
3	Z	1248	ALA	C-N-CA	10.81	133.36	119.84
3	Z	970	PHE	CA-CB-CG	10.81	124.61	113.80
9	Q	533	ARG	NE-CZ-NH2	-10.77	109.51	119.20
9	S	533	ARG	NE-CZ-NH2	-10.74	109.53	119.20
3	Z	214	PHE	CA-CB-CG	-10.71	103.09	113.80
3	1	214	PHE	CA-CB-CG	-10.65	103.15	113.80
7	O	376	ASN	CA-C-N	10.52	130.62	119.89
7	O	376	ASN	C-N-CA	10.52	130.62	119.89
7	M	376	ASN	CA-C-N	10.52	130.62	119.89
7	M	376	ASN	C-N-CA	10.52	130.62	119.89
3	1	1212	PRO	N-CA-C	10.49	127.81	113.65
7	M	185	PHE	CA-CB-CG	-10.46	103.34	113.80
7	O	185	PHE	CA-CB-CG	-10.44	103.36	113.80
7	O	144	ILE	CA-C-N	10.40	135.06	120.29
7	O	144	ILE	C-N-CA	10.40	135.06	120.29
8	N	699	GLU	N-CA-C	10.38	122.59	111.28
7	M	144	ILE	CA-C-N	10.38	135.03	120.29
7	M	144	ILE	C-N-CA	10.38	135.03	120.29
6	F	343	ASP	CA-CB-CG	10.36	122.96	112.60
8	P	699	GLU	N-CA-C	10.33	122.54	111.28
2	Y	619	THR	N-CA-C	-10.28	93.89	109.83
6	L	343	ASP	CA-CB-CG	10.27	122.87	112.60
9	S	612	HIS	CE1-NE2-CD2	-10.26	98.74	109.00
7	M	259	PHE	CA-C-N	10.25	134.02	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	259	PHE	C-N-CA	10.25	134.02	120.28
9	Q	612	HIS	CE1-NE2-CD2	-10.25	98.75	109.00
2	0	619	THR	N-CA-C	-10.25	93.94	109.83
9	T	359	ASN	CA-CB-CG	-10.24	102.36	112.60
9	R	359	ASN	CA-CB-CG	-10.24	102.36	112.60
9	T	236	ASN	CA-C-N	10.21	133.71	120.44
9	T	236	ASN	C-N-CA	10.21	133.71	120.44
9	R	236	ASN	CA-C-N	10.20	133.69	120.44
9	R	236	ASN	C-N-CA	10.20	133.69	120.44
4	A	688	HIS	CE1-NE2-CD2	-10.16	98.83	109.00
7	O	259	PHE	CA-C-N	10.16	133.90	120.28
7	O	259	PHE	C-N-CA	10.16	133.90	120.28
8	N	440	ILE	CA-C-N	10.15	129.79	119.24
8	N	440	ILE	C-N-CA	10.15	129.79	119.24
8	N	227	ILE	CA-C-N	10.14	136.83	120.60
8	N	227	ILE	C-N-CA	10.14	136.83	120.60
4	G	688	HIS	CE1-NE2-CD2	-10.14	98.86	109.00
5	K	306	THR	N-CA-C	-10.08	103.13	114.62
5	E	306	THR	N-CA-C	-10.07	103.14	114.62
9	Q	725	GLU	N-CA-CB	10.05	124.58	110.01
8	P	440	ILE	CA-C-N	10.05	129.69	119.24
8	P	440	ILE	C-N-CA	10.05	129.69	119.24
9	S	725	GLU	N-CA-CB	10.03	124.56	110.01
3	Z	1379	VAL	CA-C-N	10.03	133.71	120.28
3	Z	1379	VAL	C-N-CA	10.03	133.71	120.28
3	1	1379	VAL	CA-C-N	10.02	133.71	120.28
3	1	1379	VAL	C-N-CA	10.02	133.71	120.28
8	N	1595	LYS	CA-C-N	10.00	133.68	120.28
8	N	1595	LYS	C-N-CA	10.00	133.68	120.28
3	Z	954	MET	N-CA-C	9.99	122.17	111.28
8	P	1595	LYS	CA-C-N	9.98	133.66	120.28
8	P	1595	LYS	C-N-CA	9.98	133.66	120.28
8	P	584	ASP	CA-CB-CG	9.98	122.58	112.60
8	N	584	ASP	CA-CB-CG	9.97	122.57	112.60
3	1	954	MET	N-CA-C	9.97	122.15	111.28
9	T	161	ILE	N-CA-C	-9.97	101.15	110.82
4	A	761	ASN	CA-CB-CG	9.96	122.56	112.60
4	G	761	ASN	CA-CB-CG	9.94	122.54	112.60
3	Z	969	ARG	NE-CZ-NH2	9.91	128.12	119.20
9	T	439	HIS	CA-C-N	9.90	133.54	120.28
9	T	439	HIS	C-N-CA	9.90	133.54	120.28
9	T	205	ASN	CA-CB-CG	9.90	122.50	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	R	205	ASN	CA-CB-CG	9.89	122.49	112.60
3	1	969	ARG	NE-CZ-NH2	9.89	128.10	119.20
9	R	439	HIS	CA-C-N	9.89	133.53	120.28
9	R	439	HIS	C-N-CA	9.89	133.53	120.28
3	1	1081	LEU	O-C-N	-9.85	111.45	120.71
3	Z	1081	LEU	O-C-N	-9.80	111.50	120.71
4	G	689	SER	CA-C-N	9.79	134.20	120.29
4	G	689	SER	C-N-CA	9.79	134.20	120.29
4	A	689	SER	CA-C-N	9.79	134.19	120.29
4	A	689	SER	C-N-CA	9.79	134.19	120.29
8	N	761	PHE	CA-CB-CG	-9.78	104.02	113.80
3	Z	545	TYR	N-CA-C	9.76	123.14	111.82
3	Z	841	ARG	NE-CZ-NH2	-9.75	110.42	119.20
4	A	776	PHE	CA-CB-CG	9.75	123.55	113.80
3	1	841	ARG	NE-CZ-NH2	-9.74	110.43	119.20
7	M	824	ALA	N-CA-C	9.74	121.90	111.28
4	G	776	PHE	CA-CB-CG	9.73	123.53	113.80
2	Y	209	HIS	CA-CB-CG	9.72	123.53	113.80
3	1	545	TYR	N-CA-C	9.71	123.08	111.82
2	0	209	HIS	CA-CB-CG	9.69	123.49	113.80
8	N	575	SER	CA-C-N	9.68	134.03	120.29
8	N	575	SER	C-N-CA	9.68	134.03	120.29
11	V	288	PHE	CA-CB-CG	-9.67	104.13	113.80
9	R	601	PRO	CA-C-O	-9.66	110.79	121.32
8	P	575	SER	CA-C-N	9.66	134.00	120.29
8	P	575	SER	C-N-CA	9.66	134.00	120.29
11	X	288	PHE	CA-CB-CG	-9.65	104.15	113.80
2	0	767	SER	CA-C-N	9.65	129.90	119.28
2	0	767	SER	C-N-CA	9.65	129.90	119.28
7	O	824	ALA	N-CA-C	9.65	121.79	111.28
2	Y	767	SER	CA-C-N	9.64	129.88	119.28
2	Y	767	SER	C-N-CA	9.64	129.88	119.28
8	P	761	PHE	CA-CB-CG	-9.64	104.16	113.80
9	T	601	PRO	CA-C-O	-9.63	110.82	121.32
7	M	1035	GLY	CA-C-N	9.62	131.87	119.84
7	M	1035	GLY	C-N-CA	9.62	131.87	119.84
8	P	1055	GLN	N-CA-C	-9.62	101.05	113.17
8	P	1492	HIS	N-CA-C	9.62	121.36	111.07
9	S	434	ASP	CA-C-N	9.61	133.15	120.28
9	S	434	ASP	C-N-CA	9.61	133.15	120.28
8	N	1055	GLN	N-CA-C	-9.59	101.09	113.17
7	O	1035	GLY	CA-C-N	9.58	131.82	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	1035	GLY	C-N-CA	9.58	131.82	119.84
3	1	813	ASN	CA-CB-CG	9.58	122.18	112.60
4	D	714	PHE	CA-C-N	9.56	133.09	120.28
4	D	714	PHE	C-N-CA	9.56	133.09	120.28
8	N	1492	HIS	N-CA-C	9.56	121.30	111.07
4	D	663	ASN	CA-C-N	9.54	133.07	120.28
4	D	663	ASN	C-N-CA	9.54	133.07	120.28
3	Z	813	ASN	CA-CB-CG	9.54	122.14	112.60
7	M	686	ASN	CA-CB-CG	-9.54	103.06	112.60
7	O	6	ILE	CA-C-O	-9.54	112.30	118.69
9	Q	434	ASP	CA-C-N	9.53	133.06	120.28
9	Q	434	ASP	C-N-CA	9.53	133.06	120.28
4	J	714	PHE	CA-C-N	9.52	133.04	120.28
4	J	714	PHE	C-N-CA	9.52	133.04	120.28
4	J	663	ASN	CA-C-N	9.52	133.03	120.28
4	J	663	ASN	C-N-CA	9.52	133.03	120.28
7	M	6	ILE	CA-C-O	-9.51	112.32	118.69
9	S	612	HIS	CA-CB-CG	-9.51	104.29	113.80
9	T	141	ASN	CA-C-N	9.50	132.79	120.44
9	T	141	ASN	C-N-CA	9.50	132.79	120.44
7	O	919	ASN	CA-C-N	9.49	126.22	120.24
7	O	919	ASN	C-N-CA	9.49	126.22	120.24
9	Q	612	HIS	CA-CB-CG	-9.49	104.31	113.80
9	R	141	ASN	CA-C-N	9.49	132.77	120.44
9	R	141	ASN	C-N-CA	9.49	132.77	120.44
5	H	304	THR	N-CA-C	-9.48	103.81	114.62
7	O	686	ASN	CA-CB-CG	-9.48	103.12	112.60
8	P	85	ASN	CA-CB-CG	-9.47	103.13	112.60
5	B	304	THR	N-CA-C	-9.46	103.84	114.62
7	M	919	ASN	CA-C-N	9.46	126.20	120.24
7	M	919	ASN	C-N-CA	9.46	126.20	120.24
8	N	85	ASN	CA-CB-CG	-9.45	103.15	112.60
9	S	550	PRO	CA-C-N	9.45	132.73	120.44
9	S	550	PRO	C-N-CA	9.45	132.73	120.44
9	S	479	LEU	CA-C-N	9.44	132.93	120.28
9	S	479	LEU	C-N-CA	9.44	132.93	120.28
9	Q	550	PRO	CA-C-N	9.43	132.70	120.44
9	Q	550	PRO	C-N-CA	9.43	132.70	120.44
8	N	411	PHE	CA-CB-CG	-9.43	104.37	113.80
4	G	713	ASN	CA-CB-CG	-9.42	103.18	112.60
7	M	135	ILE	N-CA-C	-9.42	101.64	113.22
7	O	135	ILE	N-CA-C	-9.40	101.66	113.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	1436	GLU	CA-C-N	9.40	129.99	119.93
8	P	1436	GLU	C-N-CA	9.40	129.99	119.93
9	R	820	ILE	N-CA-C	-9.39	103.46	112.29
8	N	1436	GLU	CA-C-N	9.38	129.97	119.93
8	N	1436	GLU	C-N-CA	9.38	129.97	119.93
4	A	713	ASN	CA-CB-CG	-9.38	103.22	112.60
7	M	310	MET	N-CA-C	-9.38	101.14	111.36
6	C	346	ASP	CA-CB-CG	9.38	121.98	112.60
4	G	638	ASP	CA-CB-CG	9.36	121.96	112.60
4	A	638	ASP	CA-CB-CG	9.36	121.96	112.60
8	P	1488	SER	CA-C-N	9.35	129.43	119.05
8	P	1488	SER	C-N-CA	9.35	129.43	119.05
7	M	167	ILE	CA-C-O	-9.35	110.94	120.85
6	I	346	ASP	CA-CB-CG	9.35	121.95	112.60
8	P	411	PHE	CA-CB-CG	-9.35	104.45	113.80
8	N	1488	SER	CA-C-N	9.35	129.43	119.05
8	N	1488	SER	C-N-CA	9.35	129.43	119.05
9	Q	479	LEU	CA-C-N	9.35	132.80	120.28
9	Q	479	LEU	C-N-CA	9.35	132.80	120.28
7	O	310	MET	N-CA-C	-9.34	101.18	111.36
9	S	383	PRO	CA-C-N	9.34	133.70	120.53
9	S	383	PRO	C-N-CA	9.34	133.70	120.53
7	M	1322	SER	CA-C-N	9.33	132.79	120.28
7	M	1322	SER	C-N-CA	9.33	132.79	120.28
7	O	1322	SER	CA-C-N	9.32	132.77	120.28
7	O	1322	SER	C-N-CA	9.32	132.77	120.28
9	T	117	LYS	N-CA-C	-9.32	102.29	114.31
9	R	117	LYS	N-CA-C	-9.31	102.30	114.31
7	O	167	ILE	CA-C-O	-9.31	110.98	120.85
5	B	394	THR	N-CA-C	-9.30	101.72	113.43
9	T	572	CYS	O-C-N	-9.30	112.49	122.07
9	Q	383	PRO	CA-C-N	9.29	133.63	120.53
9	Q	383	PRO	C-N-CA	9.29	133.63	120.53
5	H	394	THR	N-CA-C	-9.29	101.72	113.43
7	M	829	ASN	N-CA-C	9.26	121.37	111.28
9	R	572	CYS	O-C-N	-9.25	112.54	122.07
9	T	820	ILE	N-CA-C	-9.24	103.60	112.29
9	Q	533	ARG	NE-CZ-NH1	9.24	130.74	121.50
9	R	477	TYR	N-CA-C	-9.22	99.78	113.61
8	P	738	ILE	CA-C-O	-9.21	111.43	121.29
3	Z	818	ASP	CA-C-N	9.21	135.03	120.47
3	Z	818	ASP	C-N-CA	9.21	135.03	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	706	VAL	N-CA-C	9.21	120.02	110.72
3	Z	618	ASP	CA-CB-CG	9.20	121.80	112.60
9	S	533	ARG	NE-CZ-NH1	9.19	130.69	121.50
8	N	1032	ILE	CA-C-N	9.18	132.58	120.28
8	N	1032	ILE	C-N-CA	9.18	132.58	120.28
7	O	829	ASN	N-CA-C	9.18	121.28	111.28
9	S	520	SER	N-CA-C	-9.18	99.09	110.65
8	N	738	ILE	CA-C-O	-9.17	111.48	121.29
8	P	1032	ILE	CA-C-N	9.17	132.57	120.28
8	P	1032	ILE	C-N-CA	9.17	132.57	120.28
9	T	477	TYR	N-CA-C	-9.16	99.87	113.61
3	1	818	ASP	CA-C-N	9.15	134.93	120.47
3	1	818	ASP	C-N-CA	9.15	134.93	120.47
3	Z	856	ASN	OD1-CG-ND2	9.15	131.75	122.60
3	1	502	ILE	N-CA-C	-9.15	94.54	107.80
3	Z	502	ILE	N-CA-C	-9.14	94.54	107.80
3	1	856	ASN	OD1-CG-ND2	9.14	131.74	122.60
3	Z	769	HIS	CE1-NE2-CD2	-9.14	99.86	109.00
7	M	706	VAL	N-CA-C	9.13	119.94	110.72
2	Y	960	LYS	CA-C-N	9.12	132.30	120.44
2	Y	960	LYS	C-N-CA	9.12	132.30	120.44
7	M	1627	LYS	CA-C-N	9.13	130.07	119.94
7	M	1627	LYS	C-N-CA	9.13	130.07	119.94
9	Q	520	SER	N-CA-C	-9.12	99.16	110.65
4	G	798	ASN	OD1-CG-ND2	9.12	131.72	122.60
6	I	322	THR	CA-C-N	9.11	133.22	120.29
6	I	322	THR	C-N-CA	9.11	133.22	120.29
4	A	798	ASN	OD1-CG-ND2	9.11	131.71	122.60
3	1	769	HIS	CE1-NE2-CD2	-9.10	99.90	109.00
7	O	1627	LYS	CA-C-N	9.10	130.04	119.94
7	O	1627	LYS	C-N-CA	9.10	130.04	119.94
3	1	618	ASP	CA-CB-CG	9.08	121.68	112.60
8	N	1062	ARG	NE-CZ-NH2	-9.07	111.03	119.20
2	0	960	LYS	CA-C-N	9.07	132.24	120.44
2	0	960	LYS	C-N-CA	9.07	132.24	120.44
7	O	1136	LYS	CA-C-N	9.07	132.44	120.28
7	O	1136	LYS	C-N-CA	9.07	132.44	120.28
6	C	322	THR	CA-C-N	9.07	133.17	120.29
6	C	322	THR	C-N-CA	9.07	133.17	120.29
7	O	435	PHE	O-C-N	9.07	131.73	122.12
2	Y	1110	ASP	CA-CB-CG	9.06	121.66	112.60
3	1	997	PHE	N-CA-C	9.06	121.24	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z	997	PHE	N-CA-C	9.05	121.22	111.36
10	W	357	LYS	CA-C-N	9.05	133.72	120.87
10	W	357	LYS	C-N-CA	9.05	133.72	120.87
7	M	1136	LYS	CA-C-N	9.05	132.40	120.28
7	M	1136	LYS	C-N-CA	9.05	132.40	120.28
8	P	1062	ARG	NE-CZ-NH2	-9.03	111.07	119.20
7	M	170	ASN	N-CA-C	-9.03	101.23	112.88
10	U	357	LYS	CA-C-N	9.03	133.69	120.87
10	U	357	LYS	C-N-CA	9.03	133.69	120.87
7	O	170	ASN	N-CA-C	-9.02	101.24	112.88
8	P	595	ILE	CA-C-N	9.02	132.36	120.28
8	P	595	ILE	C-N-CA	9.02	132.36	120.28
7	M	435	PHE	O-C-N	9.01	131.68	122.12
2	0	1110	ASP	CA-CB-CG	9.01	121.61	112.60
4	D	657	GLN	OE1-CD-NE2	9.01	131.61	122.60
8	N	650	ASP	CA-CB-CG	9.01	121.61	112.60
7	M	581	GLN	N-CA-C	8.99	121.08	111.28
8	N	670	HIS	CE1-NE2-CD2	-8.97	100.03	109.00
7	O	581	GLN	N-CA-C	8.97	121.06	111.28
8	P	670	HIS	CE1-NE2-CD2	-8.95	100.05	109.00
4	J	657	GLN	OE1-CD-NE2	8.95	131.54	122.60
7	O	5	ALA	CA-C-N	8.94	127.48	120.33
7	O	5	ALA	C-N-CA	8.94	127.48	120.33
2	0	124	ARG	NE-CZ-NH1	8.94	130.44	121.50
9	S	612	HIS	CB-CG-CD2	-8.94	119.57	131.20
2	Y	1432	GLU	CA-C-N	8.94	132.06	120.44
2	Y	1432	GLU	C-N-CA	8.94	132.06	120.44
5	B	441	GLN	N-CA-CB	8.93	122.96	110.01
9	Q	612	HIS	CB-CG-CD2	-8.93	119.59	131.20
7	M	5	ALA	CA-C-N	8.92	127.47	120.33
7	M	5	ALA	C-N-CA	8.92	127.47	120.33
3	1	1020	SER	CA-C-N	8.92	131.80	120.56
3	1	1020	SER	C-N-CA	8.92	131.80	120.56
3	Z	1020	SER	CA-C-N	8.92	131.80	120.56
3	Z	1020	SER	C-N-CA	8.92	131.80	120.56
8	N	595	ILE	CA-C-N	8.92	132.23	120.28
8	N	595	ILE	C-N-CA	8.92	132.23	120.28
5	H	441	GLN	N-CA-CB	8.92	122.94	110.01
8	P	650	ASP	CA-CB-CG	8.91	121.51	112.60
2	Y	124	ARG	NE-CZ-NH1	8.90	130.40	121.50
2	0	1244	ASN	OD1-CG-ND2	-8.90	113.70	122.60
8	P	364	THR	CA-C-N	8.90	132.01	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	364	THR	C-N-CA	8.90	132.01	120.44
7	O	563	SER	CA-C-O	-8.89	111.12	120.55
8	P	1293	ILE	N-CA-C	-8.89	103.91	111.56
2	Y	1244	ASN	OD1-CG-ND2	-8.89	113.71	122.60
9	T	247	GLY	N-CA-C	-8.88	103.11	112.08
9	R	247	GLY	N-CA-C	-8.88	103.11	112.08
3	Z	258	PHE	CA-CB-CG	-8.88	104.92	113.80
8	N	1293	ILE	N-CA-C	-8.87	103.93	111.56
7	O	539	ASN	CA-CB-CG	-8.87	103.73	112.60
7	O	1123	ASN	CA-CB-CG	-8.87	103.73	112.60
9	S	348	GLU	N-CA-C	8.86	121.02	111.36
3	1	258	PHE	CA-CB-CG	-8.86	104.94	113.80
8	P	318	HIS	CA-C-N	8.86	128.58	119.19
8	P	318	HIS	C-N-CA	8.86	128.58	119.19
7	O	893	HIS	ND1-CE1-NE2	8.86	117.26	108.40
7	M	670	LYS	CA-C-N	8.85	133.10	120.79
7	M	670	LYS	C-N-CA	8.85	133.10	120.79
7	M	539	ASN	CA-CB-CG	-8.85	103.75	112.60
7	M	1123	ASN	CA-CB-CG	-8.85	103.75	112.60
9	Q	348	GLU	N-CA-C	8.85	121.00	111.36
7	M	563	SER	CA-C-O	-8.84	111.18	120.55
7	O	774	ARG	CA-C-N	8.84	133.74	120.31
7	O	774	ARG	C-N-CA	8.84	133.74	120.31
7	O	1496	ASP	N-CA-C	8.84	120.52	111.07
7	M	1009	ASN	CA-CB-CG	-8.83	103.77	112.60
2	0	1432	GLU	CA-C-N	8.83	131.92	120.44
2	0	1432	GLU	C-N-CA	8.83	131.92	120.44
7	O	670	LYS	CA-C-N	8.83	133.07	120.79
7	O	670	LYS	C-N-CA	8.83	133.07	120.79
7	O	1115	GLN	OE1-CD-NE2	8.81	131.41	122.60
3	Z	177	ASP	CA-CB-CG	8.80	121.40	112.60
2	0	276	HIS	CA-CB-CG	-8.79	105.01	113.80
3	Z	625	ILE	CA-C-N	8.79	132.06	120.28
3	Z	625	ILE	C-N-CA	8.79	132.06	120.28
7	M	893	HIS	ND1-CE1-NE2	8.79	117.19	108.40
2	Y	276	HIS	CA-CB-CG	-8.79	105.01	113.80
8	N	364	THR	CA-C-N	8.79	131.86	120.44
8	N	364	THR	C-N-CA	8.79	131.86	120.44
7	M	774	ARG	CA-C-N	8.78	133.66	120.31
7	M	774	ARG	C-N-CA	8.78	133.66	120.31
8	P	1527	LYS	CA-C-N	8.78	131.86	120.44
8	P	1527	LYS	C-N-CA	8.78	131.86	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	1009	ASN	CA-CB-CG	-8.77	103.83	112.60
7	O	980	ASP	CA-C-N	8.77	131.84	120.44
7	O	980	ASP	C-N-CA	8.77	131.84	120.44
3	Z	997	PHE	CA-CB-CG	-8.77	105.03	113.80
7	M	1496	ASP	N-CA-C	8.75	120.44	111.07
3	1	1277	ARG	NE-CZ-NH2	8.75	127.08	119.20
7	O	1223	LEU	N-CA-C	-8.75	100.60	112.94
8	N	1360	ASN	OD1-CG-ND2	8.75	131.35	122.60
7	M	1115	GLN	OE1-CD-NE2	8.74	131.34	122.60
3	Z	1176	LEU	CA-C-N	8.73	132.43	120.46
3	Z	1176	LEU	C-N-CA	8.73	132.43	120.46
7	M	1223	LEU	N-CA-C	-8.73	100.62	112.94
8	N	318	HIS	CA-C-N	8.73	128.45	119.19
8	N	318	HIS	C-N-CA	8.73	128.45	119.19
8	P	1360	ASN	OD1-CG-ND2	8.73	131.33	122.60
3	1	997	PHE	CA-CB-CG	-8.73	105.07	113.80
3	Z	1277	ARG	NE-CZ-NH2	8.73	127.05	119.20
3	1	625	ILE	CA-C-N	8.73	131.97	120.28
3	1	625	ILE	C-N-CA	8.73	131.97	120.28
8	N	1527	LYS	CA-C-N	8.72	131.78	120.44
8	N	1527	LYS	C-N-CA	8.72	131.78	120.44
3	1	177	ASP	CA-CB-CG	8.71	121.31	112.60
5	B	324	TYR	N-CA-C	8.71	120.77	111.28
10	U	343	VAL	N-CA-C	-8.70	95.98	108.42
3	Z	991	ALA	N-CA-C	-8.70	102.21	113.17
3	1	1176	LEU	CA-C-N	8.70	132.37	120.46
3	1	1176	LEU	C-N-CA	8.70	132.37	120.46
5	B	323	LEU	CB-CG-CD2	8.69	136.78	110.70
7	M	980	ASP	CA-C-N	8.69	131.74	120.44
7	M	980	ASP	C-N-CA	8.69	131.74	120.44
7	O	79	ASP	CA-C-N	8.69	132.25	120.44
7	O	79	ASP	C-N-CA	8.69	132.25	120.44
7	O	105	GLN	CA-C-O	8.69	129.76	120.55
4	D	639	ASP	CA-CB-CG	8.68	121.28	112.60
3	1	991	ALA	N-CA-C	-8.68	102.23	113.17
10	W	343	VAL	N-CA-C	-8.68	96.00	108.42
5	B	537	TYR	CA-C-N	8.68	137.29	121.41
5	B	537	TYR	C-N-CA	8.68	137.29	121.41
7	O	1484	ARG	NE-CZ-NH1	8.68	130.18	121.50
7	M	79	ASP	CA-C-N	8.66	132.22	120.44
7	M	79	ASP	C-N-CA	8.66	132.22	120.44
7	M	105	GLN	CA-C-O	8.65	129.72	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	F	378	HIS	CE1-NE2-CD2	-8.64	100.36	109.00
4	G	754	ASN	CA-CB-CG	8.64	121.24	112.60
4	A	717	LYS	CA-C-N	8.64	131.67	120.44
4	A	717	LYS	C-N-CA	8.64	131.67	120.44
4	A	754	ASN	CA-CB-CG	8.64	121.24	112.60
6	F	357	LEU	CA-C-N	8.63	131.66	120.44
6	F	357	LEU	C-N-CA	8.63	131.66	120.44
9	S	760	PHE	CA-CB-CG	8.63	122.43	113.80
8	P	1223	ASN	CA-C-N	8.62	132.70	120.28
8	P	1223	ASN	C-N-CA	8.62	132.70	120.28
5	H	537	TYR	CA-C-N	8.62	137.19	121.41
5	H	537	TYR	C-N-CA	8.62	137.19	121.41
2	Y	789	VAL	N-CA-C	8.62	119.42	110.72
6	L	378	HIS	CE1-NE2-CD2	-8.61	100.39	109.00
7	M	1484	ARG	NE-CZ-NH1	8.61	130.11	121.50
8	N	1223	ASN	CA-C-N	8.60	132.66	120.28
8	N	1223	ASN	C-N-CA	8.60	132.66	120.28
4	G	717	LYS	CA-C-N	8.59	131.61	120.44
4	G	717	LYS	C-N-CA	8.59	131.61	120.44
6	L	357	LEU	CA-C-N	8.59	131.61	120.44
6	L	357	LEU	C-N-CA	8.59	131.61	120.44
9	Q	760	PHE	CA-CB-CG	8.58	122.38	113.80
2	0	1332	ASP	CA-CB-CG	8.57	121.17	112.60
9	Q	833	ILE	N-CA-C	8.57	119.36	110.62
2	0	789	VAL	N-CA-C	8.56	119.37	110.72
8	N	371	PHE	N-CA-C	-8.56	102.97	113.41
8	N	1646	ALA	CA-C-N	8.55	131.74	120.28
8	N	1646	ALA	C-N-CA	8.55	131.74	120.28
3	Z	884	ILE	CA-C-N	8.55	132.56	120.42
3	Z	884	ILE	C-N-CA	8.55	132.56	120.42
8	P	371	PHE	N-CA-C	-8.55	102.98	113.41
9	Q	430	LEU	N-CA-C	-8.55	102.23	114.12
2	Y	1332	ASP	CA-CB-CG	8.54	121.14	112.60
8	N	1078	ILE	CA-C-N	8.54	132.16	120.46
8	N	1078	ILE	C-N-CA	8.54	132.16	120.46
9	S	833	ILE	N-CA-C	8.53	119.33	110.62
8	P	1078	ILE	CA-C-N	8.53	132.15	120.46
8	P	1078	ILE	C-N-CA	8.53	132.15	120.46
2	Y	200	GLU	N-CA-CB	8.53	124.90	110.49
8	P	823	ILE	CA-C-O	8.53	129.82	120.95
7	M	1460	LEU	CA-C-N	8.52	132.03	120.44
7	M	1460	LEU	C-N-CA	8.52	132.03	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	0	200	GLU	N-CA-CB	8.52	124.89	110.49
6	F	274	ARG	NE-CZ-NH2	8.51	126.86	119.20
8	N	823	ILE	CA-C-O	8.51	129.80	120.95
2	0	415	PRO	CA-C-O	-8.50	112.06	121.32
7	M	1122	TRP	N-CA-C	-8.50	93.15	108.02
9	R	819	MET	N-CA-C	8.50	121.68	111.82
4	G	694	ASP	CA-CB-CG	8.50	121.10	112.60
9	Q	710	ASN	N-CA-CB	8.49	122.60	110.12
8	P	68	HIS	N-CA-C	-8.49	92.72	110.80
5	H	408	ILE	CA-C-O	-8.48	111.86	120.85
4	A	694	ASP	CA-CB-CG	8.48	121.08	112.60
8	N	385	PHE	CA-CB-CG	8.48	122.28	113.80
8	P	1646	ALA	CA-C-N	8.48	131.65	120.28
8	P	1646	ALA	C-N-CA	8.48	131.65	120.28
9	R	451	ASP	CA-C-O	-8.48	111.45	120.70
5	H	346	GLN	N-CA-CB	8.48	124.82	110.49
7	O	1122	TRP	N-CA-C	-8.47	93.19	108.02
3	1	884	ILE	CA-C-N	8.47	132.45	120.42
3	1	884	ILE	C-N-CA	8.47	132.45	120.42
4	G	757	SER	N-CA-C	-8.47	102.13	111.36
3	1	1113	ASP	CA-C-N	8.47	131.23	120.56
3	1	1113	ASP	C-N-CA	8.47	131.23	120.56
7	O	650	VAL	CA-C-N	8.47	129.34	119.94
7	O	650	VAL	C-N-CA	8.47	129.34	119.94
9	T	451	ASP	CA-C-O	-8.46	111.47	120.70
7	O	157	GLU	CA-C-N	8.46	131.51	120.60
7	O	157	GLU	C-N-CA	8.46	131.51	120.60
8	P	385	PHE	CA-CB-CG	8.46	122.26	113.80
4	A	757	SER	N-CA-C	-8.45	102.15	111.36
9	S	430	LEU	N-CA-C	-8.45	102.37	114.12
7	M	157	GLU	CA-C-N	8.45	131.50	120.60
7	M	157	GLU	C-N-CA	8.45	131.50	120.60
8	N	1175	GLU	CA-C-N	8.45	130.40	119.84
8	N	1175	GLU	C-N-CA	8.45	130.40	119.84
9	T	819	MET	N-CA-C	8.45	121.62	111.82
7	M	650	VAL	CA-C-N	8.45	129.31	119.94
7	M	650	VAL	C-N-CA	8.45	129.31	119.94
7	O	1602	VAL	N-CA-CB	8.45	117.04	110.45
8	P	1175	GLU	CA-C-N	8.44	130.40	119.84
8	P	1175	GLU	C-N-CA	8.44	130.40	119.84
2	Y	415	PRO	CA-C-O	-8.44	112.12	121.32
2	Y	1364	ILE	N-CA-C	8.44	118.53	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	842	ASN	CA-CB-CG	-8.44	104.16	112.60
5	B	346	GLN	N-CA-CB	8.43	124.74	110.49
5	B	408	ILE	CA-C-O	-8.43	111.91	120.85
9	T	386	TYR	CA-C-N	8.43	131.40	120.44
9	T	386	TYR	C-N-CA	8.43	131.40	120.44
4	A	793	LEU	O-C-N	8.43	131.05	122.12
7	O	1460	LEU	CA-C-N	8.43	131.90	120.44
7	O	1460	LEU	C-N-CA	8.43	131.90	120.44
4	G	793	LEU	O-C-N	8.42	131.05	122.12
7	M	1602	VAL	N-CA-CB	8.41	117.01	110.45
9	S	710	ASN	N-CA-CB	8.41	122.49	110.12
9	T	744	LEU	N-CA-C	-8.41	103.03	113.38
3	Z	601	VAL	N-CA-C	-8.41	95.47	107.75
8	N	1405	ASN	CA-CB-CG	-8.41	104.19	112.60
2	0	1364	ILE	N-CA-C	8.41	118.49	110.42
3	Z	1113	ASP	CA-C-N	8.40	131.15	120.56
3	Z	1113	ASP	C-N-CA	8.40	131.15	120.56
9	R	744	LEU	N-CA-C	-8.40	103.04	113.38
6	F	270	PRO	CA-C-N	8.40	128.13	119.64
6	F	270	PRO	C-N-CA	8.40	128.13	119.64
6	L	274	ARG	NE-CZ-NH2	8.40	126.76	119.20
7	O	1630	LEU	CA-C-N	8.40	131.36	120.44
7	O	1630	LEU	C-N-CA	8.40	131.36	120.44
7	M	1630	LEU	CA-C-N	8.39	131.35	120.44
7	M	1630	LEU	C-N-CA	8.39	131.35	120.44
8	N	842	ASN	CA-CB-CG	-8.39	104.21	112.60
7	M	953	ASN	CA-CB-CG	-8.39	104.21	112.60
9	Q	762	ASN	CA-CB-CG	-8.39	104.21	112.60
8	P	1159	ASP	CA-C-N	8.38	125.52	120.24
8	P	1159	ASP	C-N-CA	8.38	125.52	120.24
9	R	386	TYR	CA-C-N	8.38	131.34	120.44
9	R	386	TYR	C-N-CA	8.38	131.34	120.44
8	P	1405	ASN	CA-CB-CG	-8.38	104.22	112.60
9	S	41	SER	N-CA-C	8.37	121.99	108.76
8	P	981	LYS	N-CA-C	-8.37	103.26	113.97
2	0	1012	ARG	NE-CZ-NH2	8.36	126.72	119.20
8	P	528	ILE	N-CA-CB	8.36	119.83	110.72
7	O	953	ASN	CA-CB-CG	-8.35	104.25	112.60
8	N	541	GLN	N-CA-C	-8.34	105.11	114.62
7	O	2	LYS	N-CA-C	-8.34	95.32	109.24
8	N	528	ILE	N-CA-CB	8.33	119.80	110.72
6	L	270	PRO	CA-C-N	8.33	128.06	119.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	L	270	PRO	C-N-CA	8.33	128.06	119.64
8	N	981	LYS	N-CA-C	-8.33	103.31	113.97
4	A	688	HIS	ND1-CE1-NE2	8.33	116.73	108.40
8	P	730	ILE	N-CA-C	-8.33	96.30	108.71
7	M	2	LYS	N-CA-C	-8.32	95.34	109.24
3	1	601	VAL	N-CA-C	-8.32	95.45	107.77
8	P	670	HIS	ND1-CE1-NE2	8.32	116.72	108.40
8	N	1337	LEU	CA-C-N	8.32	131.25	120.44
8	N	1337	LEU	C-N-CA	8.32	131.25	120.44
4	J	654	HIS	ND1-CE1-NE2	8.32	116.72	108.40
8	P	216	TYR	N-CA-C	8.32	119.97	111.07
8	P	1337	LEU	CA-C-N	8.32	131.25	120.44
8	P	1337	LEU	C-N-CA	8.32	131.25	120.44
2	Y	387	LEU	N-CA-C	-8.31	94.97	108.52
9	S	762	ASN	CA-CB-CG	-8.31	104.29	112.60
8	N	730	ILE	N-CA-C	-8.31	96.33	108.71
9	S	306	LYS	CA-C-N	8.31	131.24	120.44
9	S	306	LYS	C-N-CA	8.31	131.24	120.44
3	Z	1070	ASP	CA-C-N	8.31	132.09	120.29
3	Z	1070	ASP	C-N-CA	8.31	132.09	120.29
2	Y	970	ILE	N-CA-CB	8.30	120.27	110.55
2	Y	1142	ARG	N-CA-C	8.31	119.96	111.07
8	N	670	HIS	ND1-CE1-NE2	8.30	116.70	108.40
3	1	147	PRO	CA-C-O	-8.30	111.93	121.56
8	N	68	HIS	N-CA-C	-8.29	93.13	110.80
4	G	688	HIS	ND1-CE1-NE2	8.30	116.70	108.40
3	1	1070	ASP	CA-C-N	8.29	132.07	120.29
3	1	1070	ASP	C-N-CA	8.29	132.07	120.29
2	Y	1012	ARG	NE-CZ-NH2	8.29	126.66	119.20
2	0	693	GLU	O-C-N	-8.29	113.33	122.12
8	N	216	TYR	N-CA-C	8.29	119.94	111.07
5	K	348	ILE	CA-C-O	-8.29	115.63	119.94
9	Q	306	LYS	CA-C-N	8.28	131.21	120.44
9	Q	306	LYS	C-N-CA	8.28	131.21	120.44
2	Y	693	GLU	O-C-N	-8.28	113.34	122.12
2	0	387	LEU	N-CA-C	-8.28	95.02	108.52
2	0	970	ILE	N-CA-CB	8.28	120.24	110.55
2	0	1054	MET	CA-C-O	8.28	129.32	120.55
8	N	1413	ASN	OD1-CG-ND2	8.27	130.87	122.60
8	P	541	GLN	N-CA-C	-8.27	105.19	114.62
3	1	1064	VAL	N-CA-CB	8.27	120.22	110.55
7	M	1208	GLU	CA-C-O	-8.26	111.70	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	K	371	GLN	N-CA-C	-8.25	102.36	111.36
8	P	1413	ASN	OD1-CG-ND2	8.25	130.85	122.60
4	D	654	HIS	ND1-CE1-NE2	8.25	116.65	108.40
8	P	1243	ASP	N-CA-C	-8.25	102.36	111.36
4	A	706	GLU	N-CA-C	-8.25	103.67	114.31
5	B	385	GLN	N-CA-C	-8.25	103.00	113.23
7	M	46	ALA	CA-C-N	8.25	132.01	120.29
7	M	46	ALA	C-N-CA	8.25	132.01	120.29
2	0	1142	ARG	N-CA-C	8.25	119.90	111.07
8	P	205	PRO	CA-C-N	8.25	131.24	120.60
8	P	205	PRO	C-N-CA	8.25	131.24	120.60
5	H	385	GLN	N-CA-C	-8.24	103.01	113.23
6	L	322	THR	CA-CB-OG1	8.24	121.97	109.60
3	Z	386	ARG	CA-C-N	8.24	129.09	119.94
3	Z	386	ARG	C-N-CA	8.24	129.09	119.94
4	G	656	GLU	CB-CG-CD	-8.24	98.59	112.60
5	E	530	ASP	CA-CB-CG	8.24	120.84	112.60
4	A	656	GLU	CB-CG-CD	-8.23	98.60	112.60
8	N	1159	ASP	CA-C-N	8.23	125.43	120.24
8	N	1159	ASP	C-N-CA	8.23	125.43	120.24
7	O	1208	GLU	CA-C-O	-8.23	111.73	120.70
2	Y	702	PHE	CA-C-N	8.22	132.12	120.28
2	Y	702	PHE	C-N-CA	8.22	132.12	120.28
2	0	702	PHE	CA-C-N	8.22	132.12	120.28
2	0	702	PHE	C-N-CA	8.22	132.12	120.28
2	Y	1054	MET	CA-C-O	8.22	129.27	120.55
7	O	46	ALA	CA-C-N	8.22	131.97	120.29
7	O	46	ALA	C-N-CA	8.22	131.97	120.29
3	Z	147	PRO	CA-C-O	-8.22	112.02	121.56
5	E	507	ASN	N-CA-C	-8.22	103.27	113.38
8	N	1243	ASP	N-CA-C	-8.22	102.40	111.36
4	G	706	GLU	N-CA-C	-8.22	103.71	114.31
5	K	507	ASN	N-CA-C	-8.22	103.27	113.38
3	Z	1064	VAL	N-CA-CB	8.21	120.15	110.55
9	T	252	GLN	OE1-CD-NE2	8.20	130.80	122.60
3	1	386	ARG	CA-C-N	8.20	129.04	119.94
3	1	386	ARG	C-N-CA	8.20	129.04	119.94
6	F	322	THR	CA-CB-OG1	8.20	121.89	109.60
9	R	252	GLN	OE1-CD-NE2	8.19	130.79	122.60
8	N	205	PRO	CA-C-N	8.19	131.17	120.60
8	N	205	PRO	C-N-CA	8.19	131.17	120.60
9	Q	629	ARG	NE-CZ-NH1	8.19	129.69	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	K	296	LYS	N-CA-C	-8.19	102.60	112.59
9	R	797	SER	N-CA-C	-8.18	102.87	113.17
3	Z	358	SER	CA-C-N	8.17	131.23	120.28
3	Z	358	SER	C-N-CA	8.17	131.23	120.28
5	E	296	LYS	N-CA-C	-8.17	102.62	112.59
8	N	302	LEU	CA-C-N	8.16	131.22	120.28
8	N	302	LEU	C-N-CA	8.16	131.22	120.28
7	M	1437	LEU	O-C-N	8.16	130.91	122.09
9	R	489	GLY	O-C-N	8.16	130.02	122.18
9	S	227	GLN	N-CA-C	8.16	120.26	111.36
2	Y	110	HIS	CE1-NE2-CD2	-8.16	100.84	109.00
9	S	629	ARG	NE-CZ-NH1	8.16	129.66	121.50
9	Q	682	GLU	N-CA-C	-8.16	104.47	114.75
8	P	1104	ASP	N-CA-C	-8.16	103.33	113.20
8	N	421	PHE	CA-C-N	8.15	131.21	120.28
8	N	421	PHE	C-N-CA	8.15	131.21	120.28
9	T	489	GLY	O-C-N	8.15	130.01	122.18
9	T	797	SER	N-CA-C	-8.15	102.90	113.17
3	Z	502	ILE	CA-C-O	-8.15	111.81	120.53
2	0	829	ILE	CA-C-N	8.15	137.10	121.54
2	0	829	ILE	C-N-CA	8.15	137.10	121.54
9	S	543	LYS	N-CA-C	8.15	120.16	111.28
9	Q	640	SER	N-CA-CB	8.14	121.88	110.07
2	0	110	HIS	CE1-NE2-CD2	-8.14	100.86	109.00
5	E	348	ILE	CA-C-O	-8.14	115.71	119.94
9	R	400	SER	N-CA-C	-8.14	103.35	113.28
5	K	530	ASP	CA-CB-CG	8.14	120.74	112.60
7	O	1437	LEU	O-C-N	8.13	130.88	122.09
8	P	302	LEU	CA-C-N	8.13	131.18	120.28
8	P	302	LEU	C-N-CA	8.13	131.18	120.28
9	T	764	ASP	CA-C-N	8.13	131.52	120.38
9	T	764	ASP	C-N-CA	8.13	131.52	120.38
9	Q	543	LYS	N-CA-C	8.13	120.14	111.28
9	R	739	MET	CA-C-N	8.13	131.18	120.28
9	R	739	MET	C-N-CA	8.13	131.18	120.28
9	S	682	GLU	N-CA-C	-8.13	104.50	114.75
9	T	400	SER	N-CA-C	-8.13	103.36	113.28
3	1	358	SER	CA-C-N	8.12	131.17	120.28
3	1	358	SER	C-N-CA	8.12	131.17	120.28
8	P	965	ASP	CA-C-N	8.12	128.96	119.94
8	P	965	ASP	C-N-CA	8.12	128.96	119.94
9	T	300	THR	CA-C-N	8.13	131.17	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	T	300	THR	C-N-CA	8.13	131.17	120.28
9	T	739	MET	CA-C-N	8.12	131.17	120.28
9	T	739	MET	C-N-CA	8.12	131.17	120.28
8	P	894	VAL	N-CA-C	-8.12	105.27	113.47
9	Q	496	TYR	N-CA-C	8.12	122.29	112.38
2	Y	493	PHE	CA-C-N	8.12	127.84	119.56
2	Y	493	PHE	C-N-CA	8.12	127.84	119.56
9	S	640	SER	N-CA-CB	8.12	121.84	110.07
8	P	127	TYR	CA-C-N	8.12	132.65	120.31
8	P	127	TYR	C-N-CA	8.12	132.65	120.31
8	N	1620	THR	N-CA-C	-8.11	96.74	109.07
9	S	496	TYR	N-CA-C	8.11	122.28	112.38
8	N	894	VAL	N-CA-C	-8.11	105.28	113.47
8	N	1498	GLY	O-C-N	8.11	133.24	122.70
8	P	421	PHE	CA-C-N	8.10	131.14	120.28
8	P	421	PHE	C-N-CA	8.10	131.14	120.28
2	Y	829	ILE	CA-C-N	8.10	137.01	121.54
2	Y	829	ILE	C-N-CA	8.10	137.01	121.54
3	1	502	ILE	CA-C-O	-8.10	111.86	120.53
2	0	493	PHE	CA-C-N	8.10	127.82	119.56
2	0	493	PHE	C-N-CA	8.10	127.82	119.56
9	R	300	THR	CA-C-N	8.10	131.13	120.28
9	R	300	THR	C-N-CA	8.10	131.13	120.28
9	R	764	ASP	CA-C-N	8.09	131.46	120.38
9	R	764	ASP	C-N-CA	8.09	131.46	120.38
8	N	658	CYS	CA-C-N	8.09	131.12	120.28
8	N	658	CYS	C-N-CA	8.09	131.12	120.28
9	Q	227	GLN	N-CA-C	8.08	120.17	111.36
2	Y	283	PHE	N-CA-C	-8.08	97.11	109.95
8	N	127	TYR	CA-C-N	8.07	132.58	120.31
8	N	127	TYR	C-N-CA	8.07	132.58	120.31
7	O	903	ASN	CA-CB-CG	-8.07	104.53	112.60
8	P	1498	GLY	O-C-N	8.07	133.19	122.70
9	S	317	ASP	CA-CB-CG	8.07	120.67	112.60
8	P	658	CYS	CA-C-N	8.07	131.09	120.28
8	P	658	CYS	C-N-CA	8.07	131.09	120.28
3	Z	1122	ASP	N-CA-C	-8.06	103.46	113.38
8	N	965	ASP	CA-C-N	8.06	128.89	119.94
8	N	965	ASP	C-N-CA	8.06	128.89	119.94
2	0	283	PHE	N-CA-C	-8.06	97.14	109.95
3	1	793	ILE	CA-C-N	8.06	131.08	120.28
3	1	793	ILE	C-N-CA	8.06	131.08	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	1620	THR	N-CA-C	-8.06	96.82	109.07
8	N	1104	ASP	N-CA-C	-8.06	103.45	113.20
7	O	1163	LEU	O-C-N	8.05	130.36	122.07
7	O	1626	VAL	CA-C-N	8.05	131.07	120.28
7	O	1626	VAL	C-N-CA	8.05	131.07	120.28
11	V	373	ASN	CA-CB-CG	-8.05	104.55	112.60
5	B	390	HIS	N-CA-C	-8.05	103.02	112.92
8	N	1547	LEU	CA-C-N	8.05	130.70	120.56
8	N	1547	LEU	C-N-CA	8.05	130.70	120.56
3	1	1122	ASP	N-CA-C	-8.05	103.48	113.38
5	H	390	HIS	N-CA-C	-8.05	103.02	112.92
9	R	86	PHE	CA-C-N	8.04	131.87	120.53
9	R	86	PHE	C-N-CA	8.04	131.87	120.53
7	O	910	ARG	N-CA-C	-8.04	103.42	113.55
9	R	500	GLU	CA-C-N	8.04	130.89	120.44
9	R	500	GLU	C-N-CA	8.04	130.89	120.44
7	M	551	SER	N-CA-C	-8.03	101.62	112.94
8	N	440	ILE	O-C-N	-8.03	115.28	120.42
9	Q	317	ASP	CA-CB-CG	8.02	120.62	112.60
4	D	665	TRP	CD2-CE2-CZ2	-8.02	114.38	122.40
9	R	54	PHE	CA-C-N	8.02	131.02	120.28
9	R	54	PHE	C-N-CA	8.02	131.02	120.28
7	M	910	ARG	N-CA-C	-8.02	103.45	113.55
3	Z	793	ILE	CA-C-N	8.02	131.02	120.28
3	Z	793	ILE	C-N-CA	8.02	131.02	120.28
9	T	500	GLU	CA-C-N	8.02	130.86	120.44
9	T	500	GLU	C-N-CA	8.02	130.86	120.44
2	0	894	ASN	CA-C-N	8.01	130.85	120.44
2	0	894	ASN	C-N-CA	8.01	130.85	120.44
4	J	665	TRP	CD2-CE2-CZ2	-8.01	114.39	122.40
7	O	665	GLU	CA-C-N	8.01	132.48	120.31
7	O	665	GLU	C-N-CA	8.01	132.48	120.31
8	P	297	THR	N-CA-C	-8.00	102.64	111.36
11	X	373	ASN	CA-CB-CG	-8.00	104.60	112.60
2	Y	894	ASN	CA-C-N	8.00	130.84	120.44
2	Y	894	ASN	C-N-CA	8.00	130.84	120.44
7	O	551	SER	CA-C-O	-8.00	110.63	119.34
7	M	1626	VAL	CA-C-N	7.99	130.99	120.28
7	M	1626	VAL	C-N-CA	7.99	130.99	120.28
8	P	1547	LEU	CA-C-N	7.99	130.62	120.56
8	P	1547	LEU	C-N-CA	7.99	130.62	120.56
7	M	903	ASN	CA-CB-CG	-7.98	104.62	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	1260	TYR	CA-C-N	7.98	130.62	120.56
8	N	1260	TYR	C-N-CA	7.98	130.62	120.56
8	P	1260	TYR	CA-C-N	7.98	130.62	120.56
8	P	1260	TYR	C-N-CA	7.98	130.62	120.56
7	M	665	GLU	CA-C-N	7.97	132.43	120.31
7	M	665	GLU	C-N-CA	7.97	132.43	120.31
9	S	297	GLY	CA-C-N	7.97	132.06	120.82
9	S	297	GLY	C-N-CA	7.97	132.06	120.82
9	T	86	PHE	CA-C-N	7.97	131.77	120.53
9	T	86	PHE	C-N-CA	7.97	131.77	120.53
5	B	390	HIS	CG-CD2-NE2	7.97	115.17	107.20
7	M	1163	LEU	O-C-N	7.97	130.28	122.07
9	Q	682	GLU	N-CA-CB	7.96	122.78	111.15
7	M	510	PHE	CA-C-N	7.96	130.75	120.56
7	M	510	PHE	C-N-CA	7.96	130.75	120.56
7	M	1166	HIS	CG-CD2-NE2	7.96	115.16	107.20
4	D	702	ARG	N-CA-CB	7.95	122.26	110.33
3	Z	186	ASN	OD1-CG-ND2	7.95	130.55	122.60
7	M	1177	VAL	N-CA-CB	7.95	119.85	110.55
8	N	297	THR	N-CA-C	-7.95	102.70	111.36
9	R	531	ASP	CA-CB-CG	7.95	120.55	112.60
9	S	682	GLU	N-CA-CB	7.94	122.75	111.15
2	Y	99	LYS	CA-C-N	7.94	128.37	119.32
2	Y	99	LYS	C-N-CA	7.94	128.37	119.32
3	Z	1137	ALA	CA-C-N	7.94	131.24	120.44
3	Z	1137	ALA	C-N-CA	7.94	131.24	120.44
5	H	390	HIS	CG-CD2-NE2	7.94	115.14	107.20
8	P	1575	ASN	CA-CB-CG	7.94	120.54	112.60
7	O	510	PHE	CA-C-N	7.93	130.72	120.56
7	O	510	PHE	C-N-CA	7.93	130.72	120.56
9	T	531	ASP	CA-CB-CG	7.93	120.53	112.60
9	T	54	PHE	CA-C-N	7.93	130.91	120.28
9	T	54	PHE	C-N-CA	7.93	130.91	120.28
11	X	390	ASN	CA-CB-CG	7.93	120.53	112.60
7	O	1177	VAL	N-CA-CB	7.93	119.83	110.55
3	1	417	ASN	CA-C-N	7.93	130.74	120.44
3	1	417	ASN	C-N-CA	7.93	130.74	120.44
8	N	1575	ASN	CA-CB-CG	7.92	120.52	112.60
7	M	1301	SER	N-CA-C	7.92	119.55	111.07
8	P	1183	PHE	CA-CB-CG	-7.92	105.88	113.80
11	V	390	ASN	CA-CB-CG	7.92	120.52	112.60
7	O	766	GLN	CA-C-N	7.91	131.10	120.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	766	GLN	C-N-CA	7.91	131.10	120.50
7	O	1301	SER	N-CA-C	7.91	119.54	111.07
9	Q	297	GLY	CA-C-N	7.91	131.97	120.82
9	Q	297	GLY	C-N-CA	7.91	131.97	120.82
3	1	1137	ALA	CA-C-N	7.91	131.19	120.44
3	1	1137	ALA	C-N-CA	7.91	131.19	120.44
3	Z	417	ASN	CA-C-N	7.91	130.72	120.44
3	Z	417	ASN	C-N-CA	7.91	130.72	120.44
3	1	978	ASN	OD1-CG-ND2	7.91	130.50	122.60
8	N	941	SER	CA-C-O	-7.90	112.71	119.59
8	N	476	ASP	N-CA-C	-7.90	97.39	109.95
8	N	775	PHE	CA-CB-CG	7.90	121.70	113.80
2	0	1415	ILE	N-CA-C	-7.90	102.83	110.42
7	M	1643	ARG	NE-CZ-NH2	-7.89	112.09	119.20
3	1	849	PHE	CA-CB-CG	-7.89	105.91	113.80
8	P	220	PHE	CA-CB-CG	7.89	121.69	113.80
8	P	775	PHE	CA-CB-CG	7.89	121.69	113.80
8	P	941	SER	CA-C-O	-7.89	112.73	119.59
3	Z	849	PHE	CA-CB-CG	-7.89	105.91	113.80
3	Z	1179	ASN	CA-CB-CG	7.89	120.49	112.60
7	M	766	GLN	CA-C-N	7.89	131.07	120.50
7	M	766	GLN	C-N-CA	7.89	131.07	120.50
8	N	623	ASP	CA-CB-CG	7.88	120.48	112.60
8	N	1098	ASN	CA-CB-CG	-7.88	104.72	112.60
8	P	440	ILE	O-C-N	-7.88	115.38	120.42
7	M	1637	VAL	N-CA-C	7.88	117.98	110.42
2	0	788	HIS	CA-C-N	7.88	131.60	120.42
2	0	788	HIS	C-N-CA	7.88	131.60	120.42
2	0	1143	GLN	CA-C-O	-7.88	112.20	120.55
3	1	1179	ASN	CA-CB-CG	7.88	120.47	112.60
7	O	447	ALA	CA-C-N	7.88	130.83	120.28
7	O	447	ALA	C-N-CA	7.88	130.83	120.28
2	0	99	LYS	CA-C-N	7.87	128.29	119.32
2	0	99	LYS	C-N-CA	7.87	128.29	119.32
11	V	296	GLU	N-CA-C	-7.87	99.74	110.68
3	1	1200	LEU	CA-C-N	7.87	127.82	120.03
3	1	1200	LEU	C-N-CA	7.87	127.82	120.03
7	O	1643	ARG	NE-CZ-NH2	-7.87	112.12	119.20
5	E	468	GLU	N-CA-C	7.87	120.95	111.82
6	I	306	ASP	CA-CB-CG	7.87	120.47	112.60
5	K	468	GLU	N-CA-C	7.86	120.94	111.82
2	Y	1143	GLN	CA-C-O	-7.86	112.22	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	0	868	VAL	N-CA-CB	7.86	119.98	110.31
2	Y	198	ASP	N-CA-C	-7.86	101.89	112.26
2	Y	1415	ILE	N-CA-C	-7.86	102.88	110.42
3	1	1283	PHE	O-C-N	-7.86	114.98	121.27
8	P	1486	GLU	N-CA-CB	-7.86	98.10	110.28
2	Y	788	HIS	CA-C-N	7.86	131.58	120.42
2	Y	788	HIS	C-N-CA	7.86	131.58	120.42
8	N	1637	VAL	CA-C-N	7.85	131.44	120.29
8	N	1637	VAL	C-N-CA	7.85	131.44	120.29
2	0	198	ASP	N-CA-C	-7.85	101.89	112.26
7	M	656	VAL	CA-C-N	7.85	131.21	120.46
7	M	656	VAL	C-N-CA	7.85	131.21	120.46
7	O	1637	VAL	N-CA-C	7.85	117.95	110.42
8	P	1637	VAL	CA-C-N	7.85	131.43	120.29
8	P	1637	VAL	C-N-CA	7.85	131.43	120.29
2	0	99	LYS	N-CA-C	7.84	118.62	109.60
5	K	411	ARG	NE-CZ-NH1	7.84	129.34	121.50
9	R	116	LYS	N-CA-C	-7.84	102.21	112.41
8	P	1098	ASN	CA-CB-CG	-7.84	104.76	112.60
7	M	447	ALA	CA-C-N	7.84	130.78	120.28
7	M	447	ALA	C-N-CA	7.84	130.78	120.28
8	P	476	ASP	N-CA-C	-7.84	97.49	109.95
8	P	623	ASP	CA-CB-CG	7.84	120.44	112.60
3	Z	192	HIS	CE1-NE2-CD2	-7.84	101.16	109.00
7	M	411	ASN	CA-C-N	7.84	131.95	120.90
7	M	411	ASN	C-N-CA	7.84	131.95	120.90
2	Y	589	HIS	CE1-NE2-CD2	-7.83	101.17	109.00
2	0	589	HIS	CE1-NE2-CD2	-7.83	101.17	109.00
9	S	612	HIS	ND1-CE1-NE2	7.83	116.23	108.40
7	O	1166	HIS	CG-CD2-NE2	7.83	115.03	107.20
7	O	411	ASN	CA-C-N	7.83	131.94	120.90
7	O	411	ASN	C-N-CA	7.83	131.94	120.90
9	S	463	GLN	O-C-N	7.83	130.41	122.12
9	R	778	THR	CA-C-O	-7.82	112.79	121.00
8	P	568	ILE	O-C-N	-7.82	114.22	121.89
2	Y	631	GLN	OE1-CD-NE2	-7.82	114.78	122.60
8	N	215	GLN	OE1-CD-NE2	-7.82	114.78	122.60
7	O	1129	ASN	CA-C-N	7.82	132.50	121.24
7	O	1129	ASN	C-N-CA	7.82	132.50	121.24
3	Z	1283	PHE	O-C-N	-7.81	115.02	121.27
5	E	411	ARG	NE-CZ-NH1	7.81	129.31	121.50
8	P	873	LEU	CA-C-N	7.81	130.75	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	873	LEU	C-N-CA	7.81	130.75	120.28
3	Z	723	ILE	N-CA-C	-7.81	105.52	113.10
6	C	306	ASP	CA-CB-CG	7.81	120.41	112.60
6	C	376	LYS	CA-C-N	7.81	131.16	120.46
6	C	376	LYS	C-N-CA	7.81	131.16	120.46
8	N	568	ILE	O-C-N	-7.81	114.24	121.89
3	1	275	THR	CA-C-N	7.81	129.94	122.36
3	1	275	THR	C-N-CA	7.81	129.94	122.36
8	N	1486	GLU	N-CA-CB	-7.81	98.18	110.28
8	P	954	ILE	CA-C-N	7.81	130.59	120.44
8	P	954	ILE	C-N-CA	7.81	130.59	120.44
9	T	778	THR	CA-C-O	-7.81	112.80	121.00
3	Z	100	ASP	CA-C-N	7.80	130.74	120.28
3	Z	100	ASP	C-N-CA	7.80	130.74	120.28
8	P	215	GLN	OE1-CD-NE2	-7.80	114.80	122.60
9	T	116	LYS	N-CA-C	-7.80	102.26	112.41
7	O	652	ALA	CA-C-N	7.80	130.73	120.28
7	O	652	ALA	C-N-CA	7.80	130.73	120.28
3	Z	978	ASN	OD1-CG-ND2	7.80	130.40	122.60
3	1	186	ASN	OD1-CG-ND2	7.80	130.40	122.60
8	N	1183	PHE	CA-CB-CG	-7.80	106.00	113.80
7	M	1129	ASN	CA-C-N	7.79	132.46	121.24
7	M	1129	ASN	C-N-CA	7.79	132.46	121.24
2	Y	99	LYS	N-CA-C	7.79	118.56	109.60
3	Z	1200	LEU	CA-C-N	7.79	127.74	120.03
3	Z	1200	LEU	C-N-CA	7.79	127.74	120.03
7	O	656	VAL	CA-C-N	7.79	131.13	120.46
7	O	656	VAL	C-N-CA	7.79	131.13	120.46
2	Y	1111	THR	CA-C-N	7.79	130.72	120.28
2	Y	1111	THR	C-N-CA	7.79	130.72	120.28
8	N	853	LYS	N-CA-C	7.79	119.77	111.28
3	1	987	GLY	N-CA-C	-7.78	104.28	115.64
9	S	456	ARG	NE-CZ-NH2	-7.78	112.20	119.20
3	Z	275	THR	CA-C-N	7.78	129.91	122.36
3	Z	275	THR	C-N-CA	7.78	129.91	122.36
8	P	1232	HIS	CB-CG-CD2	-7.78	121.09	131.20
3	1	100	ASP	CA-C-N	7.78	130.70	120.28
3	1	100	ASP	C-N-CA	7.78	130.70	120.28
7	O	1195	PHE	CA-CB-CG	-7.78	106.02	113.80
2	Y	868	VAL	N-CA-CB	7.77	119.87	110.31
7	M	292	ASP	CA-C-O	-7.77	113.55	121.32
9	Q	612	HIS	ND1-CE1-NE2	7.77	116.17	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	Q	456	ARG	NE-CZ-NH2	-7.77	112.21	119.20
7	M	1195	PHE	CA-CB-CG	-7.76	106.03	113.80
8	N	954	ILE	CA-C-N	7.76	130.53	120.44
8	N	954	ILE	C-N-CA	7.76	130.53	120.44
8	P	853	LYS	N-CA-C	7.76	119.74	111.28
8	P	1645	LYS	CA-C-N	7.76	130.68	120.28
8	P	1645	LYS	C-N-CA	7.76	130.68	120.28
3	Z	987	GLY	N-CA-C	-7.76	104.31	115.64
6	F	281	ASP	CA-CB-CG	7.76	120.36	112.60
4	J	748	ALA	CA-C-O	-7.75	112.20	120.42
8	N	209	VAL	N-CA-CB	7.75	119.62	110.55
4	A	809	ASP	CA-CB-CG	7.75	120.35	112.60
7	M	652	ALA	CA-C-N	7.75	130.66	120.28
7	M	652	ALA	C-N-CA	7.75	130.66	120.28
3	Z	92	GLN	CA-C-N	7.75	130.66	120.28
3	Z	92	GLN	C-N-CA	7.75	130.66	120.28
8	N	1232	HIS	CB-CG-CD2	-7.75	121.13	131.20
8	P	1063	ASP	O-C-N	7.74	130.97	122.15
7	O	893	HIS	CE1-NE2-CD2	-7.74	101.26	109.00
8	P	209	VAL	N-CA-CB	7.74	119.60	110.55
5	B	518	ARG	CA-C-N	7.74	128.51	120.00
5	B	518	ARG	C-N-CA	7.74	128.51	120.00
5	H	518	ARG	CA-C-N	7.74	128.51	120.00
5	H	518	ARG	C-N-CA	7.74	128.51	120.00
4	D	748	ALA	CA-C-O	-7.73	112.22	120.42
9	Q	621	HIS	CA-CB-CG	7.73	121.53	113.80
3	1	192	HIS	CE1-NE2-CD2	-7.73	101.27	109.00
7	M	1471	LYS	N-CA-C	-7.73	103.43	113.17
3	1	92	GLN	CA-C-N	7.73	130.63	120.28
3	1	92	GLN	C-N-CA	7.73	130.63	120.28
7	M	893	HIS	CE1-NE2-CD2	-7.72	101.28	109.00
7	O	292	ASP	CA-C-O	-7.72	113.60	121.32
2	0	1111	THR	CA-C-N	7.72	130.63	120.28
2	0	1111	THR	C-N-CA	7.72	130.63	120.28
11	V	276	TYR	CA-C-O	-7.72	112.49	119.75
9	T	247	GLY	CA-C-N	7.72	130.62	120.28
9	T	247	GLY	C-N-CA	7.72	130.62	120.28
4	G	809	ASP	CA-CB-CG	7.72	120.32	112.60
9	T	658	ASN	OD1-CG-ND2	7.71	130.31	122.60
8	N	1063	ASP	O-C-N	7.71	130.94	122.15
8	N	873	LEU	CA-C-N	7.71	130.60	120.28
8	N	873	LEU	C-N-CA	7.71	130.60	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	1471	LYS	N-CA-C	-7.71	103.46	113.17
8	P	1023	VAL	N-CA-C	7.70	118.48	110.62
2	0	631	GLN	OE1-CD-NE2	-7.70	114.90	122.60
7	O	620	THR	CA-C-O	7.70	128.80	120.10
2	Y	1162	TYR	CA-C-N	7.70	130.60	120.28
2	Y	1162	TYR	C-N-CA	7.70	130.60	120.28
7	O	1154	ARG	NE-CZ-NH1	7.70	129.20	121.50
2	0	1130	GLN	N-CA-C	-7.70	101.83	112.30
2	0	1162	TYR	CA-C-N	7.70	130.59	120.28
2	0	1162	TYR	C-N-CA	7.70	130.59	120.28
7	O	963	ASN	CA-C-N	7.70	130.59	120.28
7	O	963	ASN	C-N-CA	7.70	130.59	120.28
9	S	658	ASN	CA-CB-CG	-7.70	104.91	112.60
9	Q	463	GLN	O-C-N	7.69	130.27	122.12
9	R	345	LEU	CA-C-N	7.69	131.00	120.46
9	R	345	LEU	C-N-CA	7.69	131.00	120.46
7	O	775	ALA	CA-C-O	-7.69	111.12	119.97
11	X	276	TYR	CA-C-O	-7.69	112.52	119.75
8	N	451	GLU	CA-C-N	7.69	130.44	120.44
8	N	451	GLU	C-N-CA	7.69	130.44	120.44
9	R	658	ASN	OD1-CG-ND2	7.69	130.29	122.60
3	1	723	ILE	N-CA-C	-7.69	105.64	113.10
2	Y	1130	GLN	N-CA-C	-7.68	101.85	112.30
9	T	583	THR	CA-CB-OG1	7.68	121.12	109.60
7	M	620	THR	CA-C-O	7.68	128.78	120.10
7	M	1154	ARG	NE-CZ-NH1	7.68	129.18	121.50
8	P	1422	LEU	CA-C-O	-7.68	112.41	120.55
8	N	1384	ASP	CA-C-N	7.68	130.42	120.44
8	N	1384	ASP	C-N-CA	7.68	130.42	120.44
9	R	583	THR	CA-CB-OG1	7.68	121.12	109.60
9	S	789	LEU	N-CA-CB	7.68	121.41	110.12
6	F	389	ARG	NE-CZ-NH1	-7.68	113.82	121.50
8	N	1645	LYS	CA-C-N	7.68	130.57	120.28
8	N	1645	LYS	C-N-CA	7.68	130.57	120.28
2	0	505	VAL	CA-C-N	7.68	130.57	120.28
2	0	505	VAL	C-N-CA	7.68	130.57	120.28
7	O	551	SER	N-CA-C	-7.68	101.58	113.02
8	P	1384	ASP	CA-C-N	7.68	130.42	120.44
8	P	1384	ASP	C-N-CA	7.68	130.42	120.44
9	S	405	ASP	CA-CB-CG	7.68	120.28	112.60
6	L	281	ASP	CA-CB-CG	7.67	120.27	112.60
9	Q	405	ASP	CA-CB-CG	7.67	120.27	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	451	GLU	CA-C-N	7.67	130.41	120.44
8	P	451	GLU	C-N-CA	7.67	130.41	120.44
9	S	408	ARG	NE-CZ-NH1	7.67	129.17	121.50
7	M	170	ASN	CA-CB-CG	7.67	120.27	112.60
8	N	1129	LYS	CA-C-O	7.67	128.68	120.55
9	R	613	VAL	N-CA-CB	7.67	121.12	111.46
9	T	776	ILE	O-C-N	-7.67	114.43	121.87
2	Y	1179	THR	CA-C-N	7.67	128.96	120.45
2	Y	1179	THR	C-N-CA	7.67	128.96	120.45
8	N	1432	ARG	NE-CZ-NH2	7.67	126.10	119.20
9	R	247	GLY	CA-C-N	7.67	130.55	120.28
9	R	247	GLY	C-N-CA	7.67	130.55	120.28
9	T	217	ARG	NE-CZ-NH2	7.67	126.10	119.20
6	L	389	ARG	NE-CZ-NH1	-7.66	113.84	121.50
9	T	613	VAL	N-CA-CB	7.66	121.11	111.46
5	B	469	ARG	NH1-CZ-NH2	7.66	129.26	119.30
7	M	180	LYS	CA-C-N	7.66	130.87	120.54
7	M	180	LYS	C-N-CA	7.66	130.87	120.54
9	S	621	HIS	CA-CB-CG	7.65	121.45	113.80
9	Q	789	LEU	N-CA-CB	7.65	121.37	110.12
7	O	1415	ARG	CA-C-N	7.65	130.94	120.46
7	O	1415	ARG	C-N-CA	7.65	130.94	120.46
9	S	161	ALA	N-CA-C	7.65	119.25	111.07
7	O	552	SER	N-CA-C	-7.65	103.78	113.72
8	P	1129	LYS	CA-C-O	7.64	128.65	120.55
7	M	376	ASN	CA-C-O	-7.64	111.31	120.41
2	Y	505	VAL	CA-C-N	7.64	130.52	120.28
2	Y	505	VAL	C-N-CA	7.64	130.52	120.28
7	M	552	SER	N-CA-C	-7.64	103.79	113.72
7	M	1524	PHE	CA-CB-CG	7.64	121.44	113.80
8	N	1222	LEU	CA-C-N	7.64	135.42	121.06
8	N	1222	LEU	C-N-CA	7.64	135.42	121.06
6	C	302	ASP	N-CA-C	-7.64	101.06	110.61
4	D	723	SER	CA-C-O	-7.64	111.92	120.70
7	M	1093	SER	CA-C-N	7.64	128.46	119.98
7	M	1093	SER	C-N-CA	7.64	128.46	119.98
4	J	723	SER	CA-C-O	-7.63	111.92	120.70
9	Q	408	ARG	NE-CZ-NH1	7.63	129.13	121.50
2	0	1179	THR	CA-C-N	7.63	128.92	120.45
2	0	1179	THR	C-N-CA	7.63	128.92	120.45
7	O	376	ASN	CA-C-O	-7.63	111.33	120.41
8	P	1222	LEU	CA-C-N	7.63	135.41	121.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	1222	LEU	C-N-CA	7.63	135.41	121.06
7	M	963	ASN	CA-C-N	7.63	130.51	120.28
7	M	963	ASN	C-N-CA	7.63	130.51	120.28
9	Q	658	ASN	CA-CB-CG	-7.63	104.97	112.60
7	M	983	ILE	CA-C-N	7.63	130.36	120.44
7	M	983	ILE	C-N-CA	7.63	130.36	120.44
8	N	1182	ASN	CA-CB-CG	-7.63	104.97	112.60
8	N	1422	LEU	CA-C-O	-7.63	112.47	120.55
7	O	180	LYS	CA-C-N	7.63	130.84	120.54
7	O	180	LYS	C-N-CA	7.63	130.84	120.54
7	O	983	ILE	CA-C-N	7.63	130.36	120.44
7	O	983	ILE	C-N-CA	7.63	130.36	120.44
8	P	1432	ARG	NE-CZ-NH2	7.63	126.06	119.20
6	I	302	ASP	N-CA-C	-7.62	101.08	110.61
8	P	1182	ASN	CA-CB-CG	-7.62	104.98	112.60
8	P	1396	THR	N-CA-C	7.62	119.67	111.36
7	M	1415	ARG	CA-C-N	7.62	130.90	120.46
7	M	1415	ARG	C-N-CA	7.62	130.90	120.46
3	Z	258	PHE	N-CA-C	-7.62	105.15	114.75
9	T	487	LEU	CA-C-N	7.62	130.49	120.28
9	T	487	LEU	C-N-CA	7.62	130.49	120.28
3	1	1289	MET	N-CA-CB	7.62	121.06	110.01
5	H	469	ARG	NH1-CZ-NH2	7.61	129.20	119.30
7	M	255	LEU	CA-C-O	-7.61	112.48	120.55
8	P	1095	GLU	CA-C-N	7.61	131.22	120.42
8	P	1095	GLU	C-N-CA	7.61	131.22	120.42
2	Y	467	PHE	CA-C-N	7.61	128.22	120.38
2	Y	467	PHE	C-N-CA	7.61	128.22	120.38
8	P	162	HIS	CG-CD2-NE2	7.61	114.81	107.20
8	N	1023	VAL	N-CA-C	7.61	118.38	110.62
2	0	467	PHE	CA-C-N	7.61	128.22	120.38
2	0	467	PHE	C-N-CA	7.61	128.22	120.38
8	P	948	LEU	CA-C-N	7.60	130.32	120.44
8	P	948	LEU	C-N-CA	7.60	130.32	120.44
7	M	713	PHE	CA-C-N	7.60	130.80	120.54
7	M	713	PHE	C-N-CA	7.60	130.80	120.54
9	R	776	ILE	O-C-N	-7.60	114.50	121.87
7	O	713	PHE	CA-C-N	7.60	130.80	120.54
7	O	713	PHE	C-N-CA	7.60	130.80	120.54
7	M	775	ALA	CA-C-O	-7.60	111.23	119.97
9	R	690	ARG	CA-C-N	7.60	130.32	120.44
9	R	690	ARG	C-N-CA	7.60	130.32	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	1524	PHE	CA-CB-CG	7.60	121.40	113.80
7	O	255	LEU	CA-C-O	-7.59	112.50	120.55
9	Q	507	ALA	CA-C-N	7.59	130.13	120.56
9	Q	507	ALA	C-N-CA	7.59	130.13	120.56
7	O	170	ASN	CA-CB-CG	7.59	120.19	112.60
9	S	787	HIS	CE1-NE2-CD2	-7.59	101.41	109.00
9	T	345	LEU	CA-C-N	7.59	130.86	120.46
9	T	345	LEU	C-N-CA	7.59	130.86	120.46
5	B	535	LYS	N-CA-C	-7.59	101.90	112.45
8	P	1327	ARG	CA-C-N	7.59	130.45	120.28
8	P	1327	ARG	C-N-CA	7.59	130.45	120.28
8	N	435	LEU	N-CA-C	7.59	120.51	111.33
3	1	258	PHE	N-CA-C	-7.59	105.19	114.75
8	N	1396	THR	N-CA-C	7.58	119.63	111.36
9	S	507	ALA	CA-C-N	7.58	130.12	120.56
9	S	507	ALA	C-N-CA	7.58	130.12	120.56
8	N	948	LEU	CA-C-N	7.58	130.30	120.44
8	N	948	LEU	C-N-CA	7.58	130.30	120.44
9	Q	706	ILE	N-CA-C	-7.58	96.48	107.78
9	Q	787	HIS	CE1-NE2-CD2	-7.58	101.42	109.00
9	Q	161	ALA	N-CA-C	7.58	119.18	111.07
7	O	1093	SER	CA-C-N	7.58	128.39	119.98
7	O	1093	SER	C-N-CA	7.58	128.39	119.98
8	P	359	LEU	N-CA-C	7.58	119.33	111.14
8	N	1327	ARG	CA-C-N	7.58	130.43	120.28
8	N	1327	ARG	C-N-CA	7.58	130.43	120.28
9	R	217	ARG	NE-CZ-NH2	7.58	126.02	119.20
3	Z	1289	MET	N-CA-CB	7.57	120.99	110.01
8	N	162	HIS	CG-CD2-NE2	7.57	114.77	107.20
5	H	535	LYS	N-CA-C	-7.57	101.92	112.45
7	O	973	ASP	N-CA-C	-7.57	103.84	113.23
9	T	690	ARG	CA-C-N	7.57	130.28	120.44
9	T	690	ARG	C-N-CA	7.57	130.28	120.44
2	Y	85	ASN	CA-CB-CG	-7.57	105.03	112.60
7	O	1104	ASN	OD1-CG-ND2	7.57	130.17	122.60
2	0	1433	LEU	CA-C-O	-7.56	112.88	120.82
8	P	435	LEU	N-CA-C	7.56	120.48	111.33
3	Z	1333	GLU	N-CA-CB	7.56	122.49	110.85
8	N	359	LEU	N-CA-C	7.56	119.30	111.14
8	N	1095	GLU	CA-C-N	7.56	131.15	120.42
8	N	1095	GLU	C-N-CA	7.56	131.15	120.42
9	T	477	TYR	CA-C-N	7.56	130.41	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	T	477	TYR	C-N-CA	7.56	130.41	120.28
9	Q	637	ILE	N-CA-C	7.56	118.33	110.62
9	R	477	TYR	CA-C-N	7.56	130.41	120.28
9	R	477	TYR	C-N-CA	7.56	130.41	120.28
8	N	1110	HIS	N-CA-C	7.55	119.51	111.28
9	S	706	ILE	N-CA-C	-7.55	96.53	107.78
8	P	1110	HIS	N-CA-C	7.55	119.51	111.28
9	S	637	ILE	N-CA-C	7.55	118.32	110.62
8	N	135	PHE	CA-CB-CG	-7.55	106.25	113.80
8	P	823	ILE	O-C-N	-7.54	114.55	121.87
4	J	702	ARG	N-CA-CB	7.54	122.20	110.44
9	S	100	PRO	N-CA-CB	7.54	110.39	103.08
7	M	551	SER	CA-C-O	-7.53	110.59	119.48
7	M	973	ASP	N-CA-C	-7.53	103.90	113.23
2	Y	1433	LEU	CA-C-O	-7.53	112.92	120.82
3	1	1333	GLU	N-CA-CB	7.53	122.44	110.85
8	P	135	PHE	CA-CB-CG	-7.52	106.28	113.80
8	N	1208	GLY	CA-C-N	7.52	130.36	120.28
8	N	1208	GLY	C-N-CA	7.52	130.36	120.28
9	T	100	PRO	N-CA-CB	7.52	110.38	103.08
2	Y	1468	TYR	CA-C-N	7.52	130.35	120.28
2	Y	1468	TYR	C-N-CA	7.52	130.35	120.28
6	F	293	HIS	CB-CG-CD2	-7.52	121.43	131.20
9	Q	100	PRO	N-CA-CB	7.52	110.37	103.08
8	P	1232	HIS	CB-CG-ND1	7.52	133.97	122.70
2	0	85	ASN	CA-CB-CG	-7.51	105.08	112.60
8	N	823	ILE	O-C-N	-7.51	114.58	121.87
8	P	1436	GLU	N-CA-C	-7.51	98.80	110.14
2	0	180	ASN	CA-CB-CG	7.51	120.11	112.60
5	H	411	ARG	CD-NE-CZ	-7.51	113.88	124.40
6	I	470	LEU	N-CA-C	-7.51	102.65	112.41
8	N	1436	GLU	N-CA-C	-7.50	98.81	110.14
4	G	789	GLU	N-CA-C	-7.50	103.96	113.72
2	Y	401	ILE	CA-C-N	7.50	132.32	120.47
2	Y	401	ILE	C-N-CA	7.50	132.32	120.47
2	0	1468	TYR	CA-C-N	7.50	130.33	120.28
2	0	1468	TYR	C-N-CA	7.50	130.33	120.28
7	M	1104	ASN	OD1-CG-ND2	7.50	130.10	122.60
4	G	696	SER	CA-C-N	7.50	130.33	120.28
4	G	696	SER	C-N-CA	7.50	130.33	120.28
9	S	287	ASP	CA-C-N	7.50	130.94	120.29
9	S	287	ASP	C-N-CA	7.50	130.94	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	1232	HIS	CB-CG-ND1	7.50	133.94	122.70
9	R	487	LEU	CA-C-N	7.50	130.33	120.28
9	R	487	LEU	C-N-CA	7.50	130.33	120.28
6	L	293	HIS	CB-CG-CD2	-7.50	121.46	131.20
2	Y	180	ASN	CA-CB-CG	7.49	120.09	112.60
9	R	100	PRO	N-CA-CB	7.49	110.35	103.08
3	1	711	GLY	CA-C-O	7.49	128.60	120.66
3	Z	895	PHE	CA-CB-CG	-7.49	106.31	113.80
5	B	411	ARG	CD-NE-CZ	-7.49	113.92	124.40
3	1	895	PHE	CA-CB-CG	-7.49	106.31	113.80
3	1	1201	PRO	CA-C-N	7.49	131.06	120.28
3	1	1201	PRO	C-N-CA	7.49	131.06	120.28
4	A	696	SER	CA-C-N	7.49	130.31	120.28
4	A	696	SER	C-N-CA	7.49	130.31	120.28
8	N	680	ASP	CA-CB-CG	-7.49	105.11	112.60
8	N	903	LEU	CA-C-O	-7.49	112.62	120.55
9	R	119	GLU	CA-C-N	7.49	130.65	120.54
9	R	119	GLU	C-N-CA	7.49	130.65	120.54
5	E	375	ILE	N-CA-C	7.48	117.60	110.42
7	O	880	GLU	CA-C-N	7.48	130.31	120.28
7	O	880	GLU	C-N-CA	7.48	130.31	120.28
9	R	71	TYR	N-CA-CB	7.48	120.86	110.01
2	0	1116	ASP	CA-C-O	-7.48	112.62	120.55
8	P	903	LEU	CA-C-O	-7.48	112.62	120.55
5	K	378	HIS	CE1-NE2-CD2	-7.48	101.52	109.00
6	C	470	LEU	N-CA-C	-7.48	102.69	112.41
3	Z	944	LEU	CA-C-N	7.48	130.30	120.28
3	Z	944	LEU	C-N-CA	7.48	130.30	120.28
2	0	1473	HIS	CA-CB-CG	7.47	121.27	113.80
7	O	196	ILE	CA-C-N	7.47	130.16	120.44
7	O	196	ILE	C-N-CA	7.47	130.16	120.44
3	Z	1201	PRO	CA-C-N	7.47	131.04	120.28
3	Z	1201	PRO	C-N-CA	7.47	131.04	120.28
7	M	1455	THR	CA-CB-OG1	7.47	120.80	109.60
2	0	705	MET	N-CA-C	7.47	122.02	107.98
8	P	874	GLU	CA-C-N	7.47	130.15	120.44
8	P	874	GLU	C-N-CA	7.47	130.15	120.44
7	O	1538	LEU	CA-C-N	7.47	130.69	120.46
7	O	1538	LEU	C-N-CA	7.47	130.69	120.46
9	T	119	GLU	CA-C-N	7.47	130.62	120.54
9	T	119	GLU	C-N-CA	7.47	130.62	120.54
7	M	880	GLU	CA-C-N	7.46	130.28	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	880	GLU	C-N-CA	7.46	130.28	120.28
8	P	1404	PHE	CA-C-N	7.46	131.03	120.28
8	P	1404	PHE	C-N-CA	7.46	131.03	120.28
9	S	754	ARG	NE-CZ-NH2	7.46	125.92	119.20
2	Y	829	ILE	O-C-N	7.46	127.72	121.98
2	Y	895	ALA	CA-C-N	7.46	130.28	120.28
2	Y	895	ALA	C-N-CA	7.46	130.28	120.28
7	M	196	ILE	CA-C-N	7.46	130.13	120.44
7	M	196	ILE	C-N-CA	7.46	130.13	120.44
2	0	401	ILE	CA-C-N	7.46	132.25	120.47
2	0	401	ILE	C-N-CA	7.46	132.25	120.47
7	O	107	PHE	CA-C-O	-7.46	112.52	120.42
7	O	1455	THR	CA-CB-OG1	7.46	120.79	109.60
8	P	1208	GLY	CA-C-N	7.46	130.27	120.28
8	P	1208	GLY	C-N-CA	7.46	130.27	120.28
7	M	1538	LEU	CA-C-N	7.45	130.67	120.46
7	M	1538	LEU	C-N-CA	7.45	130.67	120.46
8	P	389	PHE	N-CA-C	-7.45	104.71	113.88
9	Q	158	LEU	CA-C-O	-7.45	113.00	120.82
7	M	1117	THR	CA-CB-OG1	7.45	120.78	109.60
9	S	612	HIS	CB-CG-ND1	7.45	133.87	122.70
4	A	789	GLU	N-CA-C	-7.45	104.04	113.72
2	0	895	ALA	CA-C-N	7.45	130.26	120.28
2	0	895	ALA	C-N-CA	7.45	130.26	120.28
8	N	389	PHE	N-CA-C	-7.44	104.72	113.88
2	Y	1118	LEU	CA-C-N	7.44	130.86	120.29
2	Y	1118	LEU	C-N-CA	7.44	130.86	120.29
2	0	1118	LEU	CA-C-N	7.44	130.86	120.29
2	0	1118	LEU	C-N-CA	7.44	130.86	120.29
7	O	564	ASP	CA-CB-CG	7.44	120.04	112.60
9	Q	156	LEU	CA-C-N	7.44	130.11	120.44
9	Q	156	LEU	C-N-CA	7.44	130.11	120.44
3	1	181	ILE	N-CA-C	-7.44	96.89	107.75
2	Y	1172	GLU	N-CA-C	7.44	120.26	111.71
7	M	1166	HIS	CE1-NE2-CD2	-7.44	101.56	109.00
9	Q	287	ASP	CA-C-N	7.44	130.85	120.29
9	Q	287	ASP	C-N-CA	7.44	130.85	120.29
7	O	1117	THR	CA-CB-OG1	7.43	120.75	109.60
8	P	144	ILE	N-CA-CB	7.43	121.73	110.58
8	P	680	ASP	CA-CB-CG	-7.43	105.17	112.60
3	Z	588	ASN	CA-CB-CG	7.43	120.03	112.60
4	A	808	ASP	CA-CB-CG	7.43	120.03	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	694	ASN	CA-C-N	7.43	130.24	120.28
7	O	694	ASN	C-N-CA	7.43	130.24	120.28
8	N	874	GLU	CA-C-N	7.43	130.10	120.44
8	N	874	GLU	C-N-CA	7.43	130.10	120.44
2	Y	1069	ASN	CA-C-N	7.43	129.92	120.56
2	Y	1069	ASN	C-N-CA	7.43	129.92	120.56
3	Z	900	ASP	N-CA-CB	7.43	120.78	110.01
8	N	1032	ILE	CA-C-O	-7.43	113.22	120.95
9	Q	612	HIS	CB-CG-ND1	7.43	133.84	122.70
9	T	68	LYS	CA-C-O	-7.43	113.05	120.70
2	Y	1116	ASP	CA-C-O	-7.42	112.68	120.55
7	O	414	ASN	CA-CB-CG	7.42	120.03	112.60
9	T	71	TYR	N-CA-CB	7.42	120.78	110.01
9	S	158	LEU	CA-C-O	-7.42	113.03	120.82
7	M	343	ASP	CA-C-N	7.42	132.95	120.64
7	M	343	ASP	C-N-CA	7.42	132.95	120.64
7	M	694	ASN	CA-C-N	7.42	130.22	120.28
7	M	694	ASN	C-N-CA	7.42	130.22	120.28
7	O	120	ILE	CA-C-N	7.42	130.62	120.46
7	O	120	ILE	C-N-CA	7.42	130.62	120.46
7	M	120	ILE	CA-C-N	7.42	130.62	120.46
7	M	120	ILE	C-N-CA	7.42	130.62	120.46
9	R	332	PRO	CA-C-N	7.42	130.95	120.42
9	R	332	PRO	C-N-CA	7.42	130.95	120.42
2	0	574	HIS	ND1-CE1-NE2	7.41	115.81	108.40
8	P	357	ASP	CA-CB-CG	7.41	120.01	112.60
9	Q	527	LYS	N-CA-C	-7.41	101.61	110.13
8	N	357	ASP	CA-CB-CG	7.41	120.01	112.60
2	Y	705	MET	N-CA-C	7.41	121.90	107.98
2	Y	1473	HIS	CA-CB-CG	7.41	121.20	113.80
3	Z	181	ILE	N-CA-C	-7.41	96.94	107.75
9	Q	576	LEU	N-CA-CB	7.41	121.12	110.16
5	K	375	ILE	N-CA-C	7.41	117.53	110.42
2	Y	1088	PHE	N-CA-CB	7.40	123.00	110.49
8	N	77	ASN	CA-C-N	7.40	130.20	120.28
8	N	77	ASN	C-N-CA	7.40	130.20	120.28
8	N	144	ILE	N-CA-CB	7.40	121.68	110.58
8	N	616	SER	CA-C-N	7.40	131.08	120.79
8	N	616	SER	C-N-CA	7.40	131.08	120.79
6	L	301	HIS	CA-CB-CG	-7.40	106.40	113.80
8	P	245	GLN	N-CA-C	7.40	122.49	113.38
3	1	900	ASP	N-CA-CB	7.40	120.74	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	343	ASP	CA-C-N	7.40	132.92	120.64
7	O	343	ASP	C-N-CA	7.40	132.92	120.64
5	E	422	LEU	N-CA-CB	7.40	122.99	110.49
8	P	616	SER	CA-C-N	7.40	131.07	120.79
8	P	616	SER	C-N-CA	7.40	131.07	120.79
7	O	1331	VAL	CA-C-N	7.40	130.51	120.38
7	O	1331	VAL	C-N-CA	7.40	130.51	120.38
7	O	1421	VAL	CA-C-N	7.40	128.19	119.98
7	O	1421	VAL	C-N-CA	7.40	128.19	119.98
5	E	378	HIS	CE1-NE2-CD2	-7.39	101.61	109.00
8	P	1032	ILE	CA-C-O	-7.39	113.26	120.95
8	P	1106	PHE	N-CA-C	-7.39	103.16	111.07
9	S	576	LEU	N-CA-CB	7.39	121.10	110.16
8	P	77	ASN	CA-C-N	7.39	130.19	120.28
8	P	77	ASN	C-N-CA	7.39	130.19	120.28
3	Z	349	GLN	CB-CA-C	-7.39	98.52	110.79
3	Z	711	GLY	CA-C-O	7.39	128.49	120.66
7	M	638	VAL	N-CA-C	-7.39	103.58	110.53
7	M	763	HIS	ND1-CE1-NE2	7.39	115.79	108.40
2	0	1172	GLU	N-CA-C	7.39	120.21	111.71
9	T	332	PRO	CA-C-N	7.39	130.91	120.42
9	T	332	PRO	C-N-CA	7.39	130.91	120.42
9	R	422	ARG	NE-CZ-NH1	7.39	128.89	121.50
7	O	759	ASP	N-CA-C	-7.39	104.40	113.41
7	M	414	ASN	CA-CB-CG	7.38	119.98	112.60
7	M	1522	VAL	N-CA-CB	7.38	120.58	110.54
9	Q	233	ASP	CA-C-N	7.38	132.14	120.47
9	Q	233	ASP	C-N-CA	7.38	132.14	120.47
3	1	349	GLN	CB-CA-C	-7.38	98.53	110.79
7	O	1166	HIS	CE1-NE2-CD2	-7.38	101.61	109.00
9	S	233	ASP	CA-C-N	7.38	132.14	120.47
9	S	233	ASP	C-N-CA	7.38	132.14	120.47
9	R	68	LYS	CA-C-O	-7.38	113.10	120.70
2	0	1088	PHE	N-CA-CB	7.38	122.97	110.49
3	1	944	LEU	CA-C-N	7.38	130.17	120.28
3	1	944	LEU	C-N-CA	7.38	130.17	120.28
2	0	829	ILE	O-C-N	7.38	127.66	121.98
7	M	1597	LEU	N-CA-C	-7.38	105.19	114.56
7	O	110	ARG	N-CA-C	7.38	119.32	111.28
3	1	715	LEU	CA-C-N	7.37	129.85	120.56
3	1	715	LEU	C-N-CA	7.37	129.85	120.56
4	G	808	ASP	CA-CB-CG	7.37	119.97	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	K	330	VAL	CA-C-N	7.37	130.76	120.29
5	K	330	VAL	C-N-CA	7.37	130.76	120.29
9	S	621	HIS	CE1-NE2-CD2	-7.37	101.63	109.00
2	Y	633	THR	N-CA-C	-7.37	104.44	113.50
6	F	301	HIS	CA-CB-CG	-7.37	106.43	113.80
7	M	564	ASP	CA-CB-CG	7.37	119.97	112.60
8	N	1106	PHE	N-CA-C	-7.37	103.18	111.07
2	0	633	THR	N-CA-C	-7.37	104.44	113.50
2	Y	172	ASP	N-CA-C	-7.37	97.52	108.79
9	Q	754	ARG	NE-CZ-NH2	7.37	125.83	119.20
7	M	1421	VAL	CA-C-N	7.37	128.16	119.98
7	M	1421	VAL	C-N-CA	7.37	128.16	119.98
7	M	54	GLY	N-CA-C	-7.36	104.89	115.64
7	O	1287	THR	CA-C-O	-7.36	113.09	120.82
8	P	799	ALA	CA-C-O	7.36	128.36	120.55
9	T	470	GLY	O-C-N	-7.36	114.41	121.77
2	Y	699	ALA	N-CA-C	7.36	119.30	111.28
7	M	107	PHE	CA-C-O	-7.36	112.62	120.42
7	O	54	GLY	N-CA-C	-7.36	104.89	115.64
8	P	1249	GLN	CA-C-O	7.36	128.22	120.42
3	1	588	ASN	CA-CB-CG	7.36	119.96	112.60
7	O	638	VAL	N-CA-C	-7.35	103.62	110.53
9	S	156	LEU	CA-C-N	7.35	130.00	120.44
9	S	156	LEU	C-N-CA	7.35	130.00	120.44
9	S	527	LYS	N-CA-C	-7.35	101.68	110.13
7	M	1244	ASN	CA-CB-CG	-7.35	105.25	112.60
8	N	245	GLN	N-CA-C	7.35	122.42	113.38
9	R	470	GLY	O-C-N	-7.35	114.42	121.77
5	K	422	LEU	N-CA-CB	7.35	122.91	110.49
3	Z	715	LEU	CA-C-N	7.34	129.81	120.56
3	Z	715	LEU	C-N-CA	7.34	129.81	120.56
7	M	469	LEU	CA-C-N	7.34	130.12	120.28
7	M	469	LEU	C-N-CA	7.34	130.12	120.28
8	N	799	ALA	CA-C-O	7.34	128.33	120.55
9	Q	23	ASN	CA-C-N	-7.34	110.44	120.28
9	Q	23	ASN	C-N-CA	-7.34	110.44	120.28
9	T	422	ARG	NE-CZ-NH1	7.34	128.84	121.50
3	Z	79	HIS	N-CA-CB	7.34	122.90	110.49
7	M	1287	THR	CA-C-O	-7.34	113.11	120.82
7	M	1331	VAL	CA-C-N	7.34	130.44	120.38
7	M	1331	VAL	C-N-CA	7.34	130.44	120.38
7	M	163	ASN	CA-C-O	7.34	128.33	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	759	ASP	N-CA-C	-7.34	104.46	113.41
2	0	172	ASP	N-CA-C	-7.34	97.56	108.79
9	T	565	GLY	CA-C-N	7.34	127.19	119.05
9	T	565	GLY	C-N-CA	7.34	127.19	119.05
10	W	348	ALA	N-CA-CB	7.34	122.89	110.49
8	N	790	LYS	N-CA-C	7.33	120.14	111.71
3	1	1350	TRP	CA-C-N	7.33	130.84	120.28
3	1	1350	TRP	C-N-CA	7.33	130.84	120.28
7	O	1522	VAL	N-CA-CB	7.33	120.51	110.54
7	O	163	ASN	CA-C-O	7.33	128.32	120.55
10	U	348	ALA	N-CA-CB	7.33	122.87	110.49
7	M	44	ASN	OD1-CG-ND2	7.32	129.92	122.60
9	Q	253	LEU	O-C-N	7.32	130.50	122.15
2	0	1224	ASN	N-CA-C	-7.32	101.55	111.87
7	O	44	ASN	OD1-CG-ND2	7.32	129.92	122.60
9	Q	621	HIS	CE1-NE2-CD2	-7.32	101.68	109.00
7	O	469	LEU	CA-C-N	7.32	130.08	120.28
7	O	469	LEU	C-N-CA	7.32	130.08	120.28
4	D	689	SER	N-CA-CB	7.31	120.98	110.16
2	Y	620	LYS	CA-C-O	-7.31	113.61	120.34
9	S	253	LEU	O-C-N	7.31	130.49	122.15
3	Z	1350	TRP	CA-C-N	7.31	130.81	120.28
3	Z	1350	TRP	C-N-CA	7.31	130.81	120.28
5	H	513	LEU	N-CA-CB	7.31	121.61	110.28
6	I	302	ASP	CA-CB-CG	-7.31	105.29	112.60
8	P	790	LYS	N-CA-C	7.31	120.11	111.71
3	1	763	ALA	O-C-N	7.31	129.60	122.07
4	A	668	VAL	CA-C-N	7.31	132.91	120.71
4	A	668	VAL	C-N-CA	7.31	132.91	120.71
3	Z	210	SER	CA-C-N	7.30	127.30	119.78
3	Z	210	SER	C-N-CA	7.30	127.30	119.78
2	0	699	ALA	N-CA-C	7.30	119.24	111.28
7	O	1244	ASN	CA-CB-CG	-7.30	105.30	112.60
10	W	254	ILE	N-CA-CB	7.30	120.54	111.41
2	0	1069	ASN	CA-C-N	7.30	129.76	120.56
2	0	1069	ASN	C-N-CA	7.30	129.76	120.56
8	N	648	ARG	CA-C-N	7.30	133.41	122.68
8	N	648	ARG	C-N-CA	7.30	133.41	122.68
7	M	110	ARG	N-CA-C	7.30	119.24	111.28
4	G	668	VAL	CA-C-N	7.30	132.90	120.71
4	G	668	VAL	C-N-CA	7.30	132.90	120.71
7	M	641	GLU	CA-C-N	7.30	131.40	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	641	GLU	C-N-CA	7.30	131.40	120.31
9	R	565	GLY	CA-C-N	7.30	127.15	119.05
9	R	565	GLY	C-N-CA	7.30	127.15	119.05
3	1	79	HIS	N-CA-CB	7.30	122.82	110.49
8	P	737	ASP	CA-CB-CG	7.29	119.89	112.60
5	E	330	VAL	CA-C-N	7.29	130.65	120.29
5	E	330	VAL	C-N-CA	7.29	130.65	120.29
2	0	690	ASN	N-CA-CB	7.29	122.81	110.49
7	O	641	GLU	CA-C-N	7.29	131.39	120.31
7	O	641	GLU	C-N-CA	7.29	131.39	120.31
5	B	513	LEU	N-CA-CB	7.29	121.58	110.28
2	Y	574	HIS	ND1-CE1-NE2	7.29	115.69	108.40
6	C	302	ASP	CA-CB-CG	-7.28	105.32	112.60
3	Z	1043	VAL	CA-C-N	7.28	130.04	120.28
3	Z	1043	VAL	C-N-CA	7.28	130.04	120.28
9	S	633	GLU	N-CA-C	7.28	119.22	111.28
2	Y	1391	PHE	CA-CB-CG	7.28	121.08	113.80
3	Z	763	ALA	O-C-N	7.28	129.57	122.07
7	O	873	ASN	N-CA-C	-7.28	103.28	111.14
7	O	1597	LEU	N-CA-C	-7.28	105.31	114.56
2	0	1341	ASP	CA-C-N	7.28	130.03	120.28
2	0	1341	ASP	C-N-CA	7.28	130.03	120.28
5	K	356	GLU	N-CA-C	-7.28	104.02	113.12
8	P	648	ARG	CA-C-N	7.28	133.38	122.68
8	P	648	ARG	C-N-CA	7.28	133.38	122.68
9	Q	250	ASN	CA-CB-CG	-7.28	105.32	112.60
2	Y	1224	ASN	N-CA-C	-7.27	101.61	111.87
5	E	467	LYS	O-C-N	-7.27	114.23	122.09
9	Q	633	GLU	N-CA-C	7.27	119.21	111.28
7	O	1134	LYS	CA-C-N	7.27	129.90	120.44
7	O	1134	LYS	C-N-CA	7.27	129.90	120.44
8	P	630	ASN	OD1-CG-ND2	7.27	129.87	122.60
2	Y	690	ASN	N-CA-CB	7.27	122.78	110.49
4	J	689	SER	N-CA-CB	7.27	120.92	110.16
8	P	50	ASN	CA-C-N	7.27	130.34	120.38
8	P	50	ASN	C-N-CA	7.27	130.34	120.38
2	0	620	LYS	CA-C-O	-7.27	113.65	120.34
8	N	350	ALA	CA-C-O	-7.27	113.19	120.82
2	Y	980	SER	N-CA-C	-7.27	96.71	108.41
8	P	1512	ILE	N-CA-C	7.27	118.90	110.62
7	O	764	VAL	N-CA-C	-7.26	106.13	113.47
7	M	873	ASN	N-CA-C	-7.26	103.30	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	Q	661	LEU	CA-C-O	7.26	128.45	120.82
10	U	254	ILE	N-CA-CB	7.26	120.49	111.41
7	O	155	LEU	N-CA-CB	7.26	120.79	110.12
2	0	980	SER	N-CA-C	-7.26	96.73	108.41
8	N	50	ASN	CA-C-N	7.25	130.32	120.38
8	N	50	ASN	C-N-CA	7.25	130.32	120.38
5	E	356	GLU	N-CA-C	-7.25	104.05	113.12
8	N	1292	GLU	CA-C-O	-7.25	112.86	120.55
3	1	1283	PHE	N-CA-CB	-7.25	101.90	111.40
3	Z	1059	PHE	CA-CB-CG	7.25	121.05	113.80
7	M	155	LEU	N-CA-CB	7.25	120.78	110.12
7	M	645	ILE	N-CA-C	-7.25	98.04	108.48
2	Y	874	ASN	N-CA-C	-7.25	103.59	113.30
3	Z	627	ASN	CA-CB-CG	7.25	119.85	112.60
8	P	350	ALA	CA-C-O	-7.25	113.21	120.82
2	Y	1475	LYS	N-CA-C	-7.25	103.62	114.64
7	M	1133	GLU	CA-C-N	7.25	130.58	120.29
7	M	1133	GLU	C-N-CA	7.25	130.58	120.29
2	Y	1341	ASP	CA-C-N	7.25	129.99	120.28
2	Y	1341	ASP	C-N-CA	7.25	129.99	120.28
8	N	630	ASN	OD1-CG-ND2	7.24	129.84	122.60
10	U	341	GLY	CA-C-O	-7.24	114.22	120.89
3	1	1286	HIS	CE1-NE2-CD2	-7.24	101.76	109.00
5	K	467	LYS	O-C-N	-7.24	114.27	122.09
7	M	764	VAL	N-CA-C	-7.24	106.16	113.47
2	0	1323	PHE	CA-CB-CG	7.24	121.04	113.80
2	0	1391	PHE	CA-CB-CG	7.24	121.04	113.80
3	Z	1283	PHE	N-CA-CB	-7.24	101.92	111.40
7	M	1163	LEU	CA-C-N	7.24	129.85	120.44
7	M	1163	LEU	C-N-CA	7.24	129.85	120.44
4	G	716	THR	O-C-N	7.24	129.53	122.07
7	O	763	HIS	ND1-CE1-NE2	7.24	115.64	108.40
9	S	811	ARG	O-C-N	7.24	129.79	122.12
2	Y	1323	PHE	CA-CB-CG	7.24	121.04	113.80
10	W	341	GLY	CA-C-O	-7.24	114.23	120.89
8	N	408	PRO	CA-C-O	-7.23	113.33	121.43
6	C	324	GLN	CA-C-N	7.23	129.97	120.28
6	C	324	GLN	C-N-CA	7.23	129.97	120.28
8	N	1249	GLN	CA-C-O	7.23	128.09	120.42
3	1	627	ASN	CA-CB-CG	7.23	119.83	112.60
7	O	248	PRO	CA-C-O	-7.23	113.19	121.36
8	P	1292	GLU	CA-C-O	-7.23	112.88	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y	589	HIS	ND1-CE1-NE2	7.23	115.63	108.40
4	A	716	THR	O-C-N	7.23	129.52	122.07
7	O	1653	LYS	N-CA-C	-7.23	103.09	113.21
3	1	1095	SER	N-CA-C	7.23	119.16	111.28
8	P	356	HIS	CE1-NE2-CD2	-7.23	101.77	109.00
8	N	1209	ALA	CA-C-O	-7.22	112.89	120.55
8	P	1285	PHE	CA-CB-CG	7.22	121.02	113.80
3	Z	843	TYR	CA-C-N	7.22	129.96	120.28
3	Z	843	TYR	C-N-CA	7.22	129.96	120.28
9	S	661	LEU	CA-C-O	7.22	128.40	120.82
7	O	152	HIS	CA-C-N	7.22	129.96	120.28
7	O	152	HIS	C-N-CA	7.22	129.96	120.28
8	P	1586	VAL	N-CA-C	-7.22	98.08	108.48
2	Y	1417	ILE	CA-C-N	7.22	133.77	121.14
2	Y	1417	ILE	C-N-CA	7.22	133.77	121.14
7	M	152	HIS	CA-C-N	7.22	129.95	120.28
7	M	152	HIS	C-N-CA	7.22	129.95	120.28
7	M	1134	LYS	CA-C-N	7.22	129.82	120.44
7	M	1134	LYS	C-N-CA	7.22	129.82	120.44
8	N	1285	PHE	CA-CB-CG	7.22	121.02	113.80
8	N	1361	LYS	CA-C-N	7.22	129.95	120.28
8	N	1361	LYS	C-N-CA	7.22	129.95	120.28
2	0	589	HIS	ND1-CE1-NE2	7.22	115.62	108.40
5	B	517	GLN	CA-C-O	7.21	128.27	119.97
6	I	324	GLN	CA-C-N	7.21	129.95	120.28
6	I	324	GLN	C-N-CA	7.21	129.95	120.28
7	O	1133	GLU	CA-C-N	7.21	130.53	120.29
7	O	1133	GLU	C-N-CA	7.21	130.53	120.29
9	T	474	PHE	CA-C-N	7.21	135.32	121.54
9	T	474	PHE	C-N-CA	7.21	135.32	121.54
3	1	1059	PHE	CA-CB-CG	7.21	121.01	113.80
8	N	1611	TYR	CA-C-N	7.21	129.81	120.44
8	N	1611	TYR	C-N-CA	7.21	129.81	120.44
9	R	474	PHE	CA-C-N	7.21	135.31	121.54
9	R	474	PHE	C-N-CA	7.21	135.31	121.54
3	Z	1066	ASN	CA-C-O	-7.21	110.71	119.43
3	Z	1095	SER	N-CA-C	7.21	119.13	111.28
2	0	397	TYR	CA-C-N	7.21	130.33	120.46
2	0	397	TYR	C-N-CA	7.21	130.33	120.46
3	1	1043	VAL	CA-C-N	7.20	129.93	120.28
3	1	1043	VAL	C-N-CA	7.20	129.93	120.28
8	P	483	THR	CA-C-O	7.20	127.96	120.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	1611	TYR	CA-C-N	7.20	129.80	120.44
8	P	1611	TYR	C-N-CA	7.20	129.80	120.44
3	1	843	TYR	CA-C-N	7.20	129.93	120.28
3	1	843	TYR	C-N-CA	7.20	129.93	120.28
9	S	250	ASN	CA-CB-CG	-7.20	105.40	112.60
6	F	271	PRO	N-CA-C	-7.20	104.17	114.18
3	1	1066	ASN	CA-C-O	-7.20	110.72	119.43
5	K	297	GLU	N-CA-C	-7.20	104.11	114.12
7	O	645	ILE	N-CA-C	-7.20	98.12	108.48
7	O	1163	LEU	CA-C-N	7.20	129.80	120.44
7	O	1163	LEU	C-N-CA	7.20	129.80	120.44
2	0	874	ASN	N-CA-C	-7.20	103.66	113.30
4	D	660	LYS	CA-C-N	7.19	129.79	120.44
4	D	660	LYS	C-N-CA	7.19	129.79	120.44
9	T	505	HIS	CA-CB-CG	-7.19	106.61	113.80
7	M	1653	LYS	N-CA-C	-7.19	103.14	113.21
9	R	505	HIS	CA-CB-CG	-7.19	106.61	113.80
5	E	297	GLU	N-CA-C	-7.19	104.12	114.12
8	P	1209	ALA	CA-C-O	-7.19	112.93	120.55
2	0	1417	ILE	CA-C-N	7.19	133.72	121.14
2	0	1417	ILE	C-N-CA	7.19	133.72	121.14
8	N	1110	HIS	CA-CB-CG	7.19	120.99	113.80
8	N	1512	ILE	N-CA-C	7.18	118.81	110.62
7	O	1563	LEU	N-CA-C	-7.18	96.54	108.32
8	N	483	THR	CA-C-O	7.18	127.94	120.40
9	Q	811	ARG	O-C-N	7.18	129.73	122.12
6	L	271	PRO	N-CA-C	-7.18	104.20	114.18
2	Y	397	TYR	CA-C-N	7.18	130.30	120.46
2	Y	397	TYR	C-N-CA	7.18	130.30	120.46
8	N	299	ASN	CA-CB-CG	7.18	119.78	112.60
8	N	628	THR	CA-C-O	7.18	128.21	119.31
9	S	346	ILE	CA-C-N	7.18	129.90	120.28
9	S	346	ILE	C-N-CA	7.18	129.90	120.28
7	M	159	LYS	CA-C-N	7.17	129.90	120.28
7	M	159	LYS	C-N-CA	7.17	129.90	120.28
2	0	1218	TYR	CA-C-N	7.17	129.89	120.28
2	0	1218	TYR	C-N-CA	7.17	129.89	120.28
3	1	579	TYR	N-CA-C	-7.17	95.52	110.80
3	1	1107	HIS	CA-C-N	7.17	129.89	120.28
3	1	1107	HIS	C-N-CA	7.17	129.89	120.28
7	M	1250	LYS	N-CA-CB	7.17	120.41	110.01
6	L	331	LYS	CA-C-O	-7.17	113.29	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	0	923	ASP	CA-CB-CG	-7.17	105.43	112.60
3	Z	1286	HIS	CE1-NE2-CD2	-7.17	101.83	109.00
3	1	210	SER	CA-C-N	7.17	127.16	119.78
3	1	210	SER	C-N-CA	7.17	127.16	119.78
3	1	1087	ARG	NE-CZ-NH2	-7.17	112.75	119.20
9	S	268	ILE	CA-C-N	7.17	135.23	121.54
9	S	268	ILE	C-N-CA	7.17	135.23	121.54
3	Z	1318	HIS	CA-C-N	7.17	129.76	120.44
3	Z	1318	HIS	C-N-CA	7.17	129.76	120.44
8	P	1261	ILE	N-CA-CB	7.17	118.94	110.55
7	M	248	PRO	CA-C-O	-7.17	113.26	121.36
7	M	1399	VAL	N-CA-C	7.17	117.96	110.72
3	1	822	PHE	CA-C-O	-7.17	112.95	120.55
2	Y	607	GLN	OE1-CD-NE2	-7.16	115.44	122.60
9	Q	459	LEU	N-CA-C	7.16	119.94	111.71
7	O	1399	VAL	N-CA-C	7.16	117.95	110.72
8	P	1140	GLN	OE1-CD-NE2	7.16	129.76	122.60
2	Y	612	SER	CA-C-N	7.16	127.14	120.34
2	Y	612	SER	C-N-CA	7.16	127.14	120.34
8	N	356	HIS	CE1-NE2-CD2	-7.16	101.84	109.00
3	Z	579	TYR	N-CA-C	-7.16	95.56	110.80
6	C	385	GLU	O-C-N	-7.16	113.47	122.27
3	Z	860	LYS	CA-C-N	7.16	129.74	120.44
3	Z	860	LYS	C-N-CA	7.16	129.74	120.44
3	1	1318	HIS	CA-C-N	7.16	129.74	120.44
3	1	1318	HIS	C-N-CA	7.16	129.74	120.44
8	P	1110	HIS	CA-CB-CG	7.16	120.96	113.80
3	Z	1388	HIS	CE1-NE2-CD2	-7.15	101.85	109.00
3	1	1081	LEU	CA-C-N	7.15	126.99	119.05
3	1	1081	LEU	C-N-CA	7.15	126.99	119.05
2	0	468	PRO	CA-C-O	-7.15	110.19	120.56
5	H	517	GLN	CA-C-O	7.15	128.20	119.97
7	O	1398	SER	CA-C-N	7.15	130.58	120.42
7	O	1398	SER	C-N-CA	7.15	130.58	120.42
6	F	395	GLU	CA-C-O	-7.15	112.97	120.55
2	0	1475	LYS	N-CA-C	-7.15	103.77	114.64
8	P	1154	GLU	N-CA-C	-7.15	104.59	113.38
8	N	1613	ASN	N-CA-C	7.15	119.93	111.71
3	Z	1107	HIS	CA-C-N	7.15	129.86	120.28
3	Z	1107	HIS	C-N-CA	7.15	129.86	120.28
3	1	860	LYS	CA-C-N	7.15	129.73	120.44
3	1	860	LYS	C-N-CA	7.15	129.73	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y	1218	TYR	CA-C-N	7.14	129.85	120.28
2	Y	1218	TYR	C-N-CA	7.14	129.85	120.28
4	A	707	LEU	CA-C-N	7.14	129.73	120.44
4	A	707	LEU	C-N-CA	7.14	129.73	120.44
5	H	458	GLU	N-CA-CB	7.14	120.37	110.01
7	O	159	LYS	CA-C-N	7.14	129.85	120.28
7	O	159	LYS	C-N-CA	7.14	129.85	120.28
4	D	673	GLY	CA-C-N	7.14	130.18	120.54
4	D	673	GLY	C-N-CA	7.14	130.18	120.54
7	O	1250	LYS	N-CA-CB	7.14	120.36	110.01
7	O	1406	TYR	N-CA-CB	7.14	120.73	110.16
8	P	299	ASN	CA-CB-CG	7.14	119.74	112.60
7	M	1398	SER	CA-C-N	7.14	130.55	120.42
7	M	1398	SER	C-N-CA	7.14	130.55	120.42
7	M	1563	LEU	N-CA-C	-7.14	96.61	108.32
8	N	1140	GLN	OE1-CD-NE2	7.14	129.74	122.60
8	N	1261	ILE	N-CA-CB	7.14	118.90	110.55
8	P	512	GLU	CA-C-N	7.14	130.42	120.29
8	P	512	GLU	C-N-CA	7.14	130.42	120.29
8	P	628	THR	CA-C-O	7.14	128.16	119.31
9	Q	268	ILE	CA-C-N	7.13	135.16	121.54
9	Q	268	ILE	C-N-CA	7.13	135.16	121.54
6	I	385	GLU	O-C-N	-7.13	113.50	122.27
2	Y	468	PRO	CA-C-O	-7.13	110.22	120.56
3	Z	822	PHE	CA-C-O	-7.13	112.99	120.55
8	N	737	ASP	CA-CB-CG	7.13	119.73	112.60
6	L	395	GLU	CA-C-O	-7.13	112.99	120.55
2	Y	923	ASP	CA-CB-CG	-7.13	105.47	112.60
5	B	458	GLU	N-CA-CB	7.13	120.35	110.01
5	E	367	GLU	CA-C-N	7.13	129.71	120.44
5	E	367	GLU	C-N-CA	7.13	129.71	120.44
3	1	872	ASN	N-CA-C	7.13	119.05	111.28
8	P	767	ILE	N-CA-C	7.13	117.26	110.42
8	P	441	PRO	N-CD-CG	7.12	113.89	103.20
2	0	113	HIS	CA-CB-CG	7.12	120.92	113.80
2	0	607	GLN	OE1-CD-NE2	-7.12	115.48	122.60
9	S	459	LEU	N-CA-C	7.12	119.90	111.71
3	Z	1081	LEU	CA-C-N	7.12	126.95	119.05
3	Z	1081	LEU	C-N-CA	7.12	126.95	119.05
3	Z	1087	ARG	NE-CZ-NH2	-7.12	112.79	119.20
8	N	1321	LEU	CA-C-N	7.12	132.39	121.71
8	N	1321	LEU	C-N-CA	7.12	132.39	121.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y	113	HIS	CA-CB-CG	7.12	120.92	113.80
3	1	1388	HIS	CE1-NE2-CD2	-7.12	101.88	109.00
2	Y	1442	SER	CA-C-N	7.11	129.40	120.72
2	Y	1442	SER	C-N-CA	7.11	129.40	120.72
2	0	1124	SER	N-CA-CB	7.11	121.13	110.53
4	J	673	GLY	CA-C-N	7.11	130.14	120.54
4	J	673	GLY	C-N-CA	7.11	130.14	120.54
8	P	770	HIS	O-C-N	-7.11	114.04	122.15
9	T	725	GLU	N-CA-CB	7.11	120.32	110.01
10	W	346	SER	N-CA-C	-7.11	101.82	108.22
2	0	1465	ILE	N-CA-CB	7.11	119.23	111.41
8	N	512	GLU	CA-C-N	7.11	130.39	120.29
8	N	512	GLU	C-N-CA	7.11	130.39	120.29
8	N	1475	SER	CA-C-N	7.11	130.20	120.46
8	N	1475	SER	C-N-CA	7.11	130.20	120.46
9	R	153	ASN	CA-C-N	7.11	135.12	121.54
9	R	153	ASN	C-N-CA	7.11	135.12	121.54
2	0	1453	HIS	CE1-NE2-CD2	-7.11	101.89	109.00
9	Q	315	LYS	N-CA-C	-7.11	95.66	110.80
2	0	1345	GLN	CA-C-O	-7.11	112.89	120.42
6	F	331	LYS	CA-C-O	-7.11	113.36	120.82
7	M	541	LEU	CA-C-O	7.11	127.95	120.42
7	M	1406	TYR	N-CA-CB	7.11	120.68	110.16
8	N	1154	GLU	N-CA-C	-7.11	104.64	113.38
9	S	315	LYS	N-CA-C	-7.11	95.66	110.80
8	P	134	ARG	N-CA-C	7.10	119.64	111.11
8	N	134	ARG	N-CA-C	7.10	119.63	111.11
2	Y	1066	PHE	N-CA-C	7.10	118.67	111.07
2	Y	1345	GLN	CA-C-O	-7.10	112.89	120.42
8	P	1475	SER	CA-C-N	7.10	130.19	120.46
8	P	1475	SER	C-N-CA	7.10	130.19	120.46
7	M	1229	ASN	CA-C-N	7.10	131.10	120.31
7	M	1229	ASN	C-N-CA	7.10	131.10	120.31
9	R	356	ASN	CA-C-N	7.10	129.79	120.28
9	R	356	ASN	C-N-CA	7.10	129.79	120.28
8	P	265	PHE	CA-CB-CG	7.10	120.90	113.80
7	O	1229	ASN	CA-C-N	7.10	131.10	120.31
7	O	1229	ASN	C-N-CA	7.10	131.10	120.31
8	P	1128	LEU	N-CA-CB	7.10	120.36	110.07
2	Y	1090	GLU	CA-C-O	7.09	127.86	119.28
2	Y	1124	SER	N-CA-CB	7.09	121.10	110.53
2	Y	1453	HIS	ND1-CE1-NE2	7.09	115.50	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z	273	PHE	CA-CB-CG	-7.09	106.70	113.80
6	C	454	ALA	CA-C-N	7.09	130.36	120.29
6	C	454	ALA	C-N-CA	7.09	130.36	120.29
8	P	1361	LYS	CA-C-N	7.09	129.79	120.28
8	P	1361	LYS	C-N-CA	7.09	129.79	120.28
4	A	649	THR	CA-CB-OG1	7.09	120.24	109.60
2	0	612	SER	CA-C-N	7.09	127.08	120.34
2	0	612	SER	C-N-CA	7.09	127.08	120.34
2	0	1066	PHE	N-CA-C	7.09	118.66	111.07
3	1	844	PHE	N-CA-CB	7.09	120.54	110.12
10	U	346	SER	N-CA-C	-7.09	101.84	108.22
9	S	585	GLU	CA-C-N	7.09	130.49	120.28
9	S	585	GLU	C-N-CA	7.09	130.49	120.28
7	M	671	PHE	CA-C-O	-7.09	113.28	121.07
8	N	121	ASP	N-CA-C	-7.09	103.80	113.30
8	P	1400	PRO	CA-C-N	7.09	131.45	120.75
8	P	1400	PRO	C-N-CA	7.09	131.45	120.75
8	N	27	ALA	N-CA-C	7.08	119.08	111.36
3	1	1354	ASP	CA-C-N	7.08	130.48	120.28
3	1	1354	ASP	C-N-CA	7.08	130.48	120.28
8	P	1073	LYS	CA-C-N	7.08	129.65	120.44
8	P	1073	LYS	C-N-CA	7.08	129.65	120.44
9	Q	346	ILE	CA-C-N	7.08	129.77	120.28
9	Q	346	ILE	C-N-CA	7.08	129.77	120.28
3	1	273	PHE	CA-CB-CG	-7.08	106.72	113.80
8	P	1385	LEU	CA-C-O	-7.08	113.38	120.82
2	Y	1436	THR	N-CA-C	-7.08	104.45	113.23
9	Q	585	GLU	CA-C-N	7.08	130.47	120.28
9	Q	585	GLU	C-N-CA	7.08	130.47	120.28
8	N	265	PHE	CA-CB-CG	7.08	120.88	113.80
8	N	1400	PRO	CA-C-N	7.08	131.44	120.75
8	N	1400	PRO	C-N-CA	7.08	131.44	120.75
4	G	649	THR	CA-CB-OG1	7.08	120.22	109.60
8	N	1073	LYS	CA-C-N	7.08	129.64	120.44
8	N	1073	LYS	C-N-CA	7.08	129.64	120.44
2	0	1453	HIS	ND1-CE1-NE2	7.08	115.48	108.40
8	P	1613	ASN	N-CA-C	7.08	119.85	111.71
9	T	356	ASN	CA-C-N	7.08	129.76	120.28
9	T	356	ASN	C-N-CA	7.08	129.76	120.28
3	1	97	PHE	N-CA-CB	7.07	120.27	110.01
8	N	987	SER	O-C-N	7.07	131.95	122.26
8	P	121	ASP	N-CA-C	-7.07	103.82	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	1385	LEU	CA-C-O	-7.07	113.40	120.82
9	Q	823	ARG	N-CA-C	-7.07	103.83	113.30
2	0	1436	THR	N-CA-C	-7.07	104.46	113.23
8	N	770	HIS	O-C-N	-7.07	114.09	122.15
9	T	153	ASN	CA-C-N	7.07	135.04	121.54
9	T	153	ASN	C-N-CA	7.07	135.04	121.54
8	N	441	PRO	N-CD-CG	7.07	113.80	103.20
9	Q	511	ALA	N-CA-CB	7.07	120.51	110.12
7	O	1449	GLU	N-CA-C	-7.07	99.08	108.34
3	Z	872	ASN	N-CA-C	7.07	118.98	111.28
7	O	671	PHE	CA-C-O	-7.07	113.30	121.07
3	Z	844	PHE	N-CA-CB	7.06	120.50	110.12
9	S	220	PHE	CA-CB-CG	7.06	120.86	113.80
2	0	1442	SER	CA-C-N	7.06	129.34	120.72
2	0	1442	SER	C-N-CA	7.06	129.34	120.72
7	O	762	ALA	O-C-N	7.06	129.34	122.07
8	P	1321	LEU	CA-C-N	7.06	132.30	121.71
8	P	1321	LEU	C-N-CA	7.06	132.30	121.71
6	C	284	ILE	CA-C-N	7.06	129.62	120.44
6	C	284	ILE	C-N-CA	7.06	129.62	120.44
7	M	979	LYS	N-CA-C	7.06	118.62	111.07
8	P	1587	ILE	N-CA-C	-7.06	98.60	108.27
3	Z	1354	ASP	CA-C-N	7.06	130.44	120.28
3	Z	1354	ASP	C-N-CA	7.06	130.44	120.28
7	M	1449	GLU	N-CA-C	-7.06	99.09	108.34
3	1	1090	LYS	O-C-N	-7.06	113.58	122.26
9	T	16	LYS	CA-C-N	7.06	129.18	120.22
9	T	16	LYS	C-N-CA	7.06	129.18	120.22
9	Q	220	PHE	CA-CB-CG	7.06	120.86	113.80
9	S	16	LYS	CA-C-N	7.06	129.18	120.22
9	S	16	LYS	C-N-CA	7.06	129.18	120.22
3	Z	1286	HIS	ND1-CE1-NE2	7.05	115.45	108.40
5	B	415	LEU	N-CA-CB	7.05	120.30	110.07
7	O	979	LYS	N-CA-C	7.05	118.62	111.07
8	P	987	SER	O-C-N	7.05	131.92	122.26
8	N	209	VAL	CA-CB-CG1	7.05	122.39	110.40
8	N	1128	LEU	N-CA-CB	7.05	120.30	110.07
9	S	823	ARG	N-CA-C	-7.05	103.85	113.30
2	Y	276	HIS	ND1-CE1-NE2	7.05	115.45	108.40
3	Z	97	PHE	N-CA-CB	7.05	120.23	110.01
8	P	528	ILE	CA-C-N	7.05	132.71	122.77
8	P	528	ILE	C-N-CA	7.05	132.71	122.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	511	ALA	N-CA-CB	7.05	120.48	110.12
3	Z	295	PHE	CA-C-N	7.05	133.94	121.75
3	Z	295	PHE	C-N-CA	7.05	133.94	121.75
7	M	762	ALA	O-C-N	7.05	129.33	122.07
9	R	16	LYS	CA-C-N	7.05	129.17	120.22
9	R	16	LYS	C-N-CA	7.05	129.17	120.22
8	P	27	ALA	N-CA-C	7.05	119.04	111.36
8	P	582	GLN	N-CA-C	-7.05	103.17	114.09
9	R	725	GLU	N-CA-CB	7.04	120.23	110.01
7	M	477	ASP	N-CA-C	-7.04	104.16	112.89
7	M	563	SER	CB-CA-C	7.04	122.48	110.79
9	R	707	HIS	CE1-NE2-CD2	-7.04	101.96	109.00
8	P	1385	LEU	N-CA-CB	7.04	120.22	110.01
2	Y	1465	ILE	N-CA-CB	7.04	119.16	111.41
5	B	396	SER	CA-C-N	7.04	129.72	120.28
5	B	396	SER	C-N-CA	7.04	129.72	120.28
8	N	1587	ILE	N-CA-C	-7.04	98.62	108.27
2	0	911	ASN	CA-C-N	7.04	130.10	120.46
2	0	911	ASN	C-N-CA	7.04	130.10	120.46
2	Y	1453	HIS	CE1-NE2-CD2	-7.04	101.96	109.00
2	0	1090	GLU	CA-C-O	7.04	127.80	119.28
7	O	541	LEU	CA-C-O	7.04	127.88	120.42
8	P	209	VAL	CA-CB-CG1	7.04	122.36	110.40
2	0	276	HIS	ND1-CE1-NE2	7.04	115.44	108.40
8	N	442	LEU	CA-C-N	7.03	130.41	120.42
8	N	442	LEU	C-N-CA	7.03	130.41	120.42
3	1	1286	HIS	ND1-CE1-NE2	7.03	115.43	108.40
7	O	563	SER	CB-CA-C	7.03	122.46	110.79
3	1	295	PHE	CA-C-N	7.03	133.91	121.75
3	1	295	PHE	C-N-CA	7.03	133.91	121.75
5	H	396	SER	CA-C-N	7.03	129.70	120.28
5	H	396	SER	C-N-CA	7.03	129.70	120.28
9	T	707	HIS	CE1-NE2-CD2	-7.03	101.97	109.00
8	N	441	PRO	CA-N-CD	-7.03	102.16	112.00
7	O	1491	SER	N-CA-C	7.03	120.95	112.38
3	Z	723	ILE	CA-C-N	7.03	130.40	120.28
3	Z	723	ILE	C-N-CA	7.03	130.40	120.28
8	P	441	PRO	CA-N-CD	-7.03	102.17	112.00
5	H	415	LEU	N-CA-CB	7.02	120.25	110.07
2	Y	391	MET	N-CA-C	-7.02	98.51	109.25
3	Z	1090	LYS	O-C-N	-7.02	113.63	122.26
8	N	1385	LEU	N-CA-CB	7.02	120.19	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	Q	220	PHE	CB-CA-C	7.02	121.90	110.88
8	P	442	LEU	CA-C-N	7.02	130.39	120.42
8	P	442	LEU	C-N-CA	7.02	130.39	120.42
2	0	409	ALA	N-CA-CB	7.02	122.35	110.49
8	N	528	ILE	CA-C-N	7.02	132.66	122.77
8	N	528	ILE	C-N-CA	7.02	132.66	122.77
8	N	531	ILE	CA-C-N	7.01	130.77	120.95
8	N	531	ILE	C-N-CA	7.01	130.77	120.95
8	N	767	ILE	N-CA-C	7.01	117.15	110.42
2	Y	409	ALA	N-CA-CB	7.01	122.34	110.49
2	Y	911	ASN	CA-C-N	7.01	130.06	120.46
2	Y	911	ASN	C-N-CA	7.01	130.06	120.46
7	O	66	VAL	CA-C-O	-7.01	112.71	120.84
7	O	1444	ASP	CA-C-N	7.01	130.37	120.42
7	O	1444	ASP	C-N-CA	7.01	130.37	120.42
8	P	1240	PHE	N-CA-C	-7.01	105.00	113.97
7	M	1491	SER	N-CA-C	7.01	120.93	112.38
2	0	391	MET	N-CA-C	-7.01	98.53	109.25
2	0	676	ALA	CA-C-N	7.01	130.24	120.29
2	0	676	ALA	C-N-CA	7.01	130.24	120.29
2	Y	676	ALA	CA-C-N	7.00	130.24	120.29
2	Y	676	ALA	C-N-CA	7.00	130.24	120.29
4	A	717	LYS	N-CA-C	7.00	118.91	111.28
7	M	66	VAL	CA-C-O	-7.00	112.72	120.84
5	K	329	HIS	N-CA-CB	7.00	122.33	110.49
8	N	1404	PHE	CA-C-N	7.00	130.95	120.31
8	N	1404	PHE	C-N-CA	7.00	130.95	120.31
8	N	1586	VAL	N-CA-C	-7.00	98.03	108.46
6	I	284	ILE	CA-C-N	7.00	129.54	120.44
6	I	284	ILE	C-N-CA	7.00	129.54	120.44
8	N	1529	ILE	CA-C-N	7.00	129.54	120.44
8	N	1529	ILE	C-N-CA	7.00	129.54	120.44
2	0	638	ARG	CA-C-O	7.00	127.92	120.36
3	1	723	ILE	CA-C-N	7.00	130.36	120.28
3	1	723	ILE	C-N-CA	7.00	130.36	120.28
8	P	531	ILE	CA-C-N	7.00	130.75	120.95
8	P	531	ILE	C-N-CA	7.00	130.75	120.95
7	O	477	ASP	N-CA-C	-7.00	104.22	112.89
4	G	717	LYS	N-CA-C	6.99	118.90	111.28
4	J	760	SER	CA-C-N	6.99	129.53	120.44
4	J	760	SER	C-N-CA	6.99	129.53	120.44
9	S	220	PHE	CB-CA-C	6.99	121.86	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	J	722	LEU	N-CA-C	6.99	118.90	111.28
4	D	762	LEU	CA-C-N	6.99	130.22	120.29
4	D	762	LEU	C-N-CA	6.99	130.22	120.29
8	N	582	GLN	N-CA-C	-6.99	103.26	114.09
9	Q	563	ASN	N-CA-C	-6.99	104.64	113.72
3	Z	1273	GLY	CA-C-O	-6.98	113.56	120.75
8	P	718	PHE	CA-CB-CG	-6.98	106.82	113.80
7	M	986	LEU	N-CA-C	-6.98	103.10	111.69
5	E	329	HIS	N-CA-CB	6.98	122.28	110.49
7	O	986	LEU	N-CA-C	-6.98	103.11	111.69
2	Y	638	ARG	CA-C-O	6.98	127.90	120.36
2	Y	1272	GLN	CA-C-N	6.98	127.68	120.00
2	Y	1272	GLN	C-N-CA	6.98	127.68	120.00
8	P	1529	ILE	CA-C-N	6.98	129.51	120.44
8	P	1529	ILE	C-N-CA	6.98	129.51	120.44
9	S	570	GLU	O-C-N	6.98	129.52	122.12
2	0	856	TYR	CA-C-N	6.97	127.87	119.99
2	0	856	TYR	C-N-CA	6.97	127.87	119.99
7	M	1444	ASP	CA-C-N	6.97	130.32	120.42
7	M	1444	ASP	C-N-CA	6.97	130.32	120.42
8	N	1240	PHE	N-CA-C	-6.97	105.05	113.97
2	0	496	PHE	N-CA-C	-6.97	98.04	109.40
8	P	159	SER	CA-C-O	6.97	127.98	119.97
9	T	378	LYS	N-CA-C	-6.97	103.11	112.94
7	M	318	ALA	CA-C-O	6.96	127.93	120.55
2	Y	856	TYR	CA-C-N	6.96	127.86	119.99
2	Y	856	TYR	C-N-CA	6.96	127.86	119.99
4	D	722	LEU	N-CA-C	6.96	118.87	111.28
2	Y	1275	ILE	N-CA-C	6.96	117.10	110.42
4	D	760	SER	CA-C-N	6.96	129.49	120.44
4	D	760	SER	C-N-CA	6.96	129.49	120.44
8	P	507	PRO	CA-C-N	6.96	128.54	119.84
8	P	507	PRO	C-N-CA	6.96	128.54	119.84
4	J	762	LEU	CA-C-N	6.96	130.17	120.29
4	J	762	LEU	C-N-CA	6.96	130.17	120.29
9	T	596	ASP	CA-CB-CG	6.96	119.56	112.60
4	A	675	GLN	N-CA-C	6.96	118.65	111.14
9	T	778	THR	O-C-N	6.96	129.26	122.03
8	N	621	SER	N-CA-C	6.95	119.45	111.11
2	0	1146	TYR	CA-C-O	-6.95	113.05	120.42
2	0	1344	PHE	N-CA-C	-6.95	103.78	111.36
8	N	718	PHE	CA-CB-CG	-6.95	106.85	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	R	778	THR	O-C-N	6.95	129.26	122.03
3	Z	102	SER	CA-C-N	6.95	129.48	120.44
3	Z	102	SER	C-N-CA	6.95	129.48	120.44
7	M	217	LEU	O-C-N	-6.95	114.75	122.12
2	0	1012	ARG	CA-C-N	6.95	129.47	120.44
2	0	1012	ARG	C-N-CA	6.95	129.47	120.44
8	P	621	SER	N-CA-C	6.95	119.45	111.11
9	R	596	ASP	CA-CB-CG	6.95	119.55	112.60
2	0	251	THR	N-CA-C	-6.95	102.21	113.19
8	N	507	PRO	CA-C-N	6.95	128.52	119.84
8	N	507	PRO	C-N-CA	6.95	128.52	119.84
8	N	1495	TRP	CB-CG-CD2	6.95	136.52	126.80
9	Q	570	GLU	O-C-N	6.95	129.48	122.12
2	0	193	TRP	CA-C-N	6.95	130.67	120.95
2	0	193	TRP	C-N-CA	6.95	130.67	120.95
2	0	1272	GLN	CA-C-N	6.95	127.64	120.00
2	0	1272	GLN	C-N-CA	6.95	127.64	120.00
3	1	1273	GLY	CA-C-O	-6.95	113.60	120.75
6	I	454	ALA	CA-C-N	6.95	130.15	120.29
6	I	454	ALA	C-N-CA	6.95	130.15	120.29
7	O	318	ALA	CA-C-O	6.95	127.91	120.55
9	S	340	LEU	N-CA-C	6.95	118.93	111.36
2	Y	496	PHE	N-CA-C	-6.94	98.08	109.40
2	Y	1012	ARG	CA-C-N	6.94	129.47	120.44
2	Y	1012	ARG	C-N-CA	6.94	129.47	120.44
9	R	87	ILE	CB-CA-C	-6.94	102.94	112.04
8	P	1164	ASP	CA-C-N	6.94	129.44	120.56
8	P	1164	ASP	C-N-CA	6.94	129.44	120.56
2	Y	251	THR	N-CA-C	-6.94	102.22	113.19
8	P	543	GLY	O-C-N	6.94	129.62	122.54
8	N	1517	GLU	CA-C-N	6.94	129.58	120.28
8	N	1517	GLU	C-N-CA	6.94	129.58	120.28
9	S	563	ASN	N-CA-C	-6.94	104.70	113.72
9	R	378	LYS	N-CA-C	-6.94	103.16	112.94
8	P	1522	VAL	O-C-N	-6.94	115.14	121.87
3	Z	1385	ASP	CA-C-O	6.94	127.77	120.42
7	M	179	ILE	CB-CA-C	6.94	121.50	112.14
7	M	184	ASP	N-CA-CB	6.94	120.13	110.07
2	Y	765	ILE	CA-C-N	6.93	134.78	121.54
2	Y	765	ILE	C-N-CA	6.93	134.78	121.54
9	R	451	ASP	O-C-N	6.93	129.16	121.53
8	P	1495	TRP	CB-CG-CD2	6.93	136.51	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	773	ASN	OD1-CG-ND2	-6.93	115.67	122.60
9	T	87	ILE	CB-CA-C	-6.93	102.96	112.04
2	0	1054	MET	O-C-N	-6.93	114.77	122.12
3	1	276	GLY	CA-C-O	-6.93	114.61	120.92
8	N	159	SER	CA-C-O	6.93	127.94	119.97
8	N	584	ASP	CA-C-O	-6.93	113.57	121.19
2	0	765	ILE	CA-C-N	6.93	134.77	121.54
2	0	765	ILE	C-N-CA	6.93	134.77	121.54
3	1	102	SER	CA-C-N	6.93	129.45	120.44
3	1	102	SER	C-N-CA	6.93	129.45	120.44
2	Y	193	TRP	CA-C-N	6.93	130.65	120.95
2	Y	193	TRP	C-N-CA	6.93	130.65	120.95
2	Y	449	ASN	CA-CB-CG	-6.92	105.68	112.60
3	Z	997	PHE	CA-C-N	6.92	129.44	120.44
3	Z	997	PHE	C-N-CA	6.92	129.44	120.44
8	N	1112	PHE	CA-CB-CG	-6.92	106.88	113.80
8	N	1164	ASP	CA-C-N	6.92	129.42	120.56
8	N	1164	ASP	C-N-CA	6.92	129.42	120.56
3	Z	593	GLN	OE1-CD-NE2	6.92	129.52	122.60
8	P	918	PHE	N-CA-C	6.92	120.88	110.64
8	P	1112	PHE	CA-CB-CG	-6.92	106.88	113.80
2	Y	1054	MET	O-C-N	-6.92	114.79	122.12
3	Z	1322	TYR	CA-C-O	-6.92	113.56	120.82
8	N	50	ASN	OD1-CG-ND2	6.92	129.52	122.60
3	1	627	ASN	CA-C-N	6.92	127.88	120.83
3	1	627	ASN	C-N-CA	6.92	127.88	120.83
7	O	1258	HIS	ND1-CE1-NE2	6.92	115.32	108.40
9	S	308	PHE	CA-C-N	6.92	129.27	120.56
9	S	308	PHE	C-N-CA	6.92	129.27	120.56
7	M	1258	HIS	ND1-CE1-NE2	6.91	115.31	108.40
2	0	449	ASN	CA-CB-CG	-6.91	105.69	112.60
7	O	771	ARG	CA-CB-CG	6.91	127.93	114.10
7	M	239	HIS	CA-C-N	6.91	130.11	120.29
7	M	239	HIS	C-N-CA	6.91	130.11	120.29
2	0	483	HIS	CE1-NE2-CD2	-6.91	102.09	109.00
3	1	997	PHE	CA-C-N	6.91	129.43	120.44
3	1	997	PHE	C-N-CA	6.91	129.43	120.44
2	Y	537	LYS	N-CA-C	-6.91	105.78	114.56
2	0	537	LYS	N-CA-C	-6.91	105.78	114.56
2	0	1185	TYR	CB-CG-CD1	-6.91	110.44	120.80
8	P	1517	GLU	CA-C-N	6.91	129.54	120.28
8	P	1517	GLU	C-N-CA	6.91	129.54	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	Q	340	LEU	N-CA-C	6.91	118.89	111.36
8	P	1620	THR	CA-C-N	6.91	129.54	120.28
8	P	1620	THR	C-N-CA	6.91	129.54	120.28
9	S	248	THR	CA-C-N	6.91	130.10	120.29
9	S	248	THR	C-N-CA	6.91	130.10	120.29
3	1	1385	ASP	CA-C-O	6.91	127.74	120.42
4	G	675	GLN	N-CA-C	6.91	118.60	111.14
7	O	344	ILE	CA-C-N	6.91	129.42	120.44
7	O	344	ILE	C-N-CA	6.91	129.42	120.44
2	Y	1442	SER	N-CA-CB	6.90	120.27	110.12
4	A	682	ASP	CA-CB-CG	6.90	119.50	112.60
7	M	30	PRO	CA-C-N	6.90	130.09	120.29
7	M	30	PRO	C-N-CA	6.90	130.09	120.29
8	N	1562	ASN	OD1-CG-ND2	6.90	129.50	122.60
2	0	1442	SER	N-CA-CB	6.90	120.27	110.12
7	O	239	HIS	CA-C-N	6.90	130.09	120.29
7	O	239	HIS	C-N-CA	6.90	130.09	120.29
8	N	945	ASP	N-CA-C	-6.90	96.40	108.20
8	P	945	ASP	N-CA-C	-6.90	96.40	108.20
4	D	654	HIS	CE1-NE2-CD2	-6.90	102.10	109.00
7	M	771	ARG	CA-CB-CG	6.90	127.90	114.10
2	Y	163	GLU	N-CA-C	6.90	118.80	111.28
2	Y	1185	TYR	CB-CG-CD1	-6.90	110.45	120.80
7	M	741	GLY	N-CA-C	-6.90	96.83	113.18
9	S	331	VAL	CA-C-O	-6.90	113.00	119.62
9	S	529	LYS	N-CA-C	-6.90	104.44	112.92
8	N	748	HIS	CA-C-N	6.90	129.39	120.56
8	N	748	HIS	C-N-CA	6.90	129.39	120.56
8	N	918	PHE	N-CA-C	6.90	120.85	110.64
9	Q	223	ASN	N-CA-CB	6.90	120.26	110.12
7	O	741	GLY	N-CA-C	-6.90	96.84	113.18
2	Y	478	GLN	CA-C-N	6.89	129.40	120.44
2	Y	478	GLN	C-N-CA	6.89	129.40	120.44
3	Z	134	ALA	N-CA-C	6.89	119.64	111.71
2	0	478	GLN	CA-C-N	6.89	129.40	120.44
2	0	478	GLN	C-N-CA	6.89	129.40	120.44
4	J	654	HIS	CE1-NE2-CD2	-6.89	102.11	109.00
7	O	217	LEU	O-C-N	-6.89	114.81	122.12
8	P	584	ASP	CA-C-O	-6.89	113.61	121.19
9	Q	269	ASN	CA-C-N	6.89	129.90	120.46
9	Q	269	ASN	C-N-CA	6.89	129.90	120.46
9	Q	331	VAL	CA-C-O	-6.89	113.01	119.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	557	LEU	CA-C-N	6.89	132.36	120.86
9	S	557	LEU	C-N-CA	6.89	132.36	120.86
2	0	1349	MET	CA-C-N	6.89	134.84	122.38
2	0	1349	MET	C-N-CA	6.89	134.84	122.38
8	P	745	HIS	O-C-N	-6.89	114.98	122.07
9	S	223	ASN	N-CA-CB	6.89	120.24	110.12
8	N	543	GLY	O-C-N	6.88	129.56	122.54
3	1	1326	SER	O-C-N	6.88	129.42	122.12
2	Y	1344	PHE	N-CA-C	-6.88	103.86	111.36
2	Y	483	HIS	CE1-NE2-CD2	-6.88	102.12	109.00
3	Z	276	GLY	CA-C-O	-6.88	114.66	120.92
2	0	163	GLU	N-CA-C	6.88	118.78	111.28
7	M	3	TRP	N-CA-C	-6.88	100.12	109.54
2	Y	1349	MET	CA-C-N	6.88	134.83	122.38
2	Y	1349	MET	C-N-CA	6.88	134.83	122.38
2	0	1275	ILE	N-CA-C	6.88	117.02	110.42
7	O	30	PRO	CA-C-N	6.88	130.05	120.29
7	O	30	PRO	C-N-CA	6.88	130.05	120.29
7	M	291	GLU	CA-C-N	6.88	128.33	122.28
7	M	291	GLU	C-N-CA	6.88	128.33	122.28
9	S	764	ASP	CA-C-O	-6.88	114.26	121.55
9	T	451	ASP	O-C-N	6.88	129.09	121.53
9	T	458	SER	CA-C-N	6.88	129.49	120.28
9	T	458	SER	C-N-CA	6.88	129.49	120.28
8	N	1522	VAL	O-C-N	-6.87	115.20	121.87
8	P	1078	ILE	CB-CA-C	6.87	120.77	111.97
9	S	269	ASN	CA-C-N	6.87	129.88	120.46
9	S	269	ASN	C-N-CA	6.87	129.88	120.46
7	O	559	ALA	N-CA-CB	6.87	120.33	110.16
8	N	627	SER	CA-C-O	-6.87	113.64	121.40
9	T	542	THR	CA-C-N	6.87	129.49	120.28
9	T	542	THR	C-N-CA	6.87	129.49	120.28
4	A	686	ALA	CA-C-N	6.87	130.04	120.29
4	A	686	ALA	C-N-CA	6.87	130.04	120.29
7	M	559	ALA	N-CA-CB	6.87	120.33	110.16
9	R	458	SER	CA-C-N	6.87	129.48	120.28
9	R	458	SER	C-N-CA	6.87	129.48	120.28
7	O	603	GLU	N-CA-C	6.87	118.77	111.28
2	Y	1146	TYR	CA-C-O	-6.87	113.14	120.42
3	Z	627	ASN	CA-C-N	6.87	127.83	120.83
3	Z	627	ASN	C-N-CA	6.87	127.83	120.83
3	Z	1326	SER	O-C-N	6.87	129.40	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	582	PHE	O-C-N	6.87	129.98	122.15
9	Q	680	ASN	CA-C-N	6.87	134.66	121.54
9	Q	680	ASN	C-N-CA	6.87	134.66	121.54
8	P	247	PHE	N-CA-CB	6.87	120.21	110.12
8	N	209	VAL	CB-CA-C	-6.86	103.19	111.97
4	J	660	LYS	CA-C-N	6.86	129.78	120.44
4	J	660	LYS	C-N-CA	6.86	129.78	120.44
7	O	184	ASP	N-CA-CB	6.86	120.02	110.07
7	M	872	ILE	CA-C-N	6.86	129.36	120.44
7	M	872	ILE	C-N-CA	6.86	129.36	120.44
3	1	234	THR	CA-C-O	-6.86	113.03	120.92
7	M	344	ILE	CA-C-N	6.86	129.36	120.44
7	M	344	ILE	C-N-CA	6.86	129.36	120.44
8	N	1168	LYS	CA-C-O	6.86	129.21	122.01
9	T	381	GLY	N-CA-C	-6.86	104.61	112.29
7	M	1323	THR	N-CA-CB	6.86	120.20	110.12
6	F	378	HIS	ND1-CE1-NE2	6.86	115.26	108.40
3	1	1101	TYR	CA-C-N	6.86	129.35	120.44
3	1	1101	TYR	C-N-CA	6.86	129.35	120.44
9	Q	557	LEU	CA-C-N	6.86	132.31	120.86
9	Q	557	LEU	C-N-CA	6.86	132.31	120.86
2	Y	1343	LEU	N-CA-C	6.85	118.75	111.28
9	R	381	GLY	N-CA-C	-6.85	104.61	112.29
8	P	162	HIS	CE1-NE2-CD2	-6.85	102.15	109.00
8	N	1620	THR	CA-C-N	6.85	129.46	120.28
8	N	1620	THR	C-N-CA	6.85	129.46	120.28
3	1	134	ALA	N-CA-C	6.85	119.59	111.71
3	1	593	GLN	OE1-CD-NE2	6.85	129.45	122.60
7	O	1323	THR	N-CA-CB	6.85	120.19	110.12
9	S	470	GLY	O-C-N	-6.85	114.92	121.77
9	Q	248	THR	CA-C-N	6.85	130.02	120.29
9	Q	248	THR	C-N-CA	6.85	130.02	120.29
9	Q	529	LYS	N-CA-C	-6.85	104.49	112.92
4	G	707	LEU	CA-C-N	6.85	129.69	120.65
4	G	707	LEU	C-N-CA	6.85	129.69	120.65
9	Q	308	PHE	CA-C-N	6.85	129.19	120.56
9	Q	308	PHE	C-N-CA	6.85	129.19	120.56
7	O	1527	ARG	NE-CZ-NH1	-6.85	114.65	121.50
8	P	209	VAL	CB-CA-C	-6.85	103.20	111.97
8	P	748	HIS	CA-C-N	6.85	129.32	120.56
8	P	748	HIS	C-N-CA	6.85	129.32	120.56
3	Z	616	THR	CA-C-N	6.85	127.41	119.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z	616	THR	C-N-CA	6.85	127.41	119.47
3	Z	234	THR	CA-C-O	-6.84	113.05	120.92
5	B	378	HIS	CB-CG-ND1	6.84	132.97	122.70
7	M	129	GLU	CA-C-N	6.84	129.45	120.28
7	M	129	GLU	C-N-CA	6.84	129.45	120.28
9	S	680	ASN	CA-C-N	6.84	134.61	121.54
9	S	680	ASN	C-N-CA	6.84	134.61	121.54
8	N	162	HIS	CE1-NE2-CD2	-6.84	102.16	109.00
8	N	247	PHE	N-CA-CB	6.84	120.18	110.12
9	Q	773	ASN	OD1-CG-ND2	-6.84	115.76	122.60
2	0	1343	LEU	N-CA-C	6.84	118.74	111.28
6	I	399	ASN	CA-CB-CG	-6.84	105.76	112.60
9	Q	424	ASN	OD1-CG-ND2	6.84	129.44	122.60
8	P	627	SER	CA-C-O	-6.84	113.67	121.40
6	C	399	ASN	CA-CB-CG	-6.84	105.76	112.60
3	Z	510	CYS	N-CA-C	-6.84	97.27	108.41
9	R	422	ARG	N-CA-C	-6.84	98.63	109.23
9	R	651	ASP	CA-C-N	6.84	129.83	120.46
9	R	651	ASP	C-N-CA	6.84	129.83	120.46
9	T	422	ARG	N-CA-C	-6.84	98.63	109.23
3	Z	1340	LYS	N-CA-CB	6.83	120.17	110.12
2	0	1413	VAL	CB-CA-C	6.83	121.37	112.14
3	Z	1101	TYR	CA-C-N	6.83	129.32	120.44
3	Z	1101	TYR	C-N-CA	6.83	129.32	120.44
8	N	933	LYS	CA-C-O	6.83	127.79	120.55
2	Y	681	THR	CA-C-N	6.83	129.44	120.28
2	Y	681	THR	C-N-CA	6.83	129.44	120.28
9	R	101	PRO	N-CA-CB	6.83	110.42	103.25
3	1	1001	ARG	NE-CZ-NH2	-6.83	113.05	119.20
9	R	720	ILE	N-CA-CB	6.83	120.83	110.58
3	1	582	THR	CA-CB-OG1	6.83	119.84	109.60
5	H	378	HIS	CB-CG-ND1	6.83	132.94	122.70
3	Z	1056	HIS	CE1-NE2-CD2	-6.83	102.17	109.00
6	I	385	GLU	CA-C-N	6.83	130.69	120.31
6	I	385	GLU	C-N-CA	6.83	130.69	120.31
2	Y	839	ILE	CA-C-N	6.83	129.43	120.28
2	Y	839	ILE	C-N-CA	6.83	129.43	120.28
8	N	1078	ILE	CB-CA-C	6.83	120.71	111.97
3	1	510	CYS	N-CA-C	-6.83	97.28	108.41
6	L	378	HIS	ND1-CE1-NE2	6.83	115.22	108.40
8	P	933	LYS	CA-C-O	6.83	127.78	120.55
9	S	424	ASN	OD1-CG-ND2	6.83	129.43	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	429	GLU	CA-C-N	6.82	129.31	120.44
7	M	429	GLU	C-N-CA	6.82	129.31	120.44
3	Z	393	VAL	CA-C-N	6.82	130.56	120.87
3	Z	393	VAL	C-N-CA	6.82	130.56	120.87
2	0	1434	ILE	CA-CB-CG2	6.82	122.09	110.50
3	1	1340	LYS	N-CA-CB	6.82	120.14	110.12
8	P	1608	HIS	ND1-CE1-NE2	6.82	115.22	108.40
5	B	378	HIS	CB-CG-CD2	-6.82	122.34	131.20
8	N	1600	ALA	CA-C-N	6.82	129.30	120.44
8	N	1600	ALA	C-N-CA	6.82	129.30	120.44
2	0	839	ILE	CA-C-N	6.82	129.41	120.28
2	0	839	ILE	C-N-CA	6.82	129.41	120.28
8	P	794	ILE	N-CA-C	-6.82	106.36	112.90
3	Z	117	TYR	O-C-N	6.82	129.88	121.84
3	Z	445	SER	CA-C-N	6.82	130.39	120.71
3	Z	445	SER	C-N-CA	6.82	130.39	120.71
8	N	1608	HIS	ND1-CE1-NE2	6.82	115.22	108.40
9	R	542	THR	CA-C-N	6.82	129.41	120.28
9	R	542	THR	C-N-CA	6.82	129.41	120.28
3	1	1056	HIS	CE1-NE2-CD2	-6.82	102.18	109.00
5	K	346	GLN	N-CA-CB	6.82	122.01	110.49
7	O	429	GLU	CA-C-N	6.82	129.30	120.44
7	O	429	GLU	C-N-CA	6.82	129.30	120.44
5	B	514	THR	CA-C-N	6.81	130.67	120.31
5	B	514	THR	C-N-CA	6.81	130.67	120.31
8	N	1150	ILE	N-CA-C	-6.81	106.49	113.10
7	O	3	TRP	N-CA-C	-6.81	100.21	109.54
7	O	179	ILE	CB-CA-C	6.81	121.33	112.14
8	P	643	GLU	CA-C-O	6.81	127.77	120.55
7	M	603	GLU	N-CA-C	6.81	118.70	111.28
2	Y	788	HIS	CE1-NE2-CD2	-6.80	102.19	109.00
9	Q	764	ASP	CA-C-O	-6.80	114.34	121.55
3	1	445	SER	CA-C-N	6.80	130.37	120.71
3	1	445	SER	C-N-CA	6.80	130.37	120.71
7	O	129	GLU	CA-C-N	6.80	129.40	120.28
7	O	129	GLU	C-N-CA	6.80	129.40	120.28
8	P	50	ASN	OD1-CG-ND2	6.80	129.41	122.60
8	P	1623	GLU	CA-C-N	6.80	129.28	120.44
8	P	1623	GLU	C-N-CA	6.80	129.28	120.44
5	K	313	TYR	CA-CB-CG	-6.80	101.66	113.90
9	T	129	LEU	N-CA-C	6.80	118.35	111.07
9	T	765	ASP	CA-C-N	6.80	130.65	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	T	765	ASP	C-N-CA	6.80	130.65	120.31
7	M	217	LEU	CA-C-O	6.80	127.76	120.55
4	G	686	ALA	CA-C-N	6.80	129.95	120.29
4	G	686	ALA	C-N-CA	6.80	129.95	120.29
5	H	411	ARG	NE-CZ-NH1	6.80	128.30	121.50
7	O	873	ASN	CA-C-N	6.80	129.39	120.28
7	O	873	ASN	C-N-CA	6.80	129.39	120.28
8	P	122	ILE	N-CA-C	-6.80	103.39	113.39
9	S	64	LYS	CA-C-N	6.80	129.28	120.44
9	S	64	LYS	C-N-CA	6.80	129.28	120.44
9	T	474	PHE	N-CA-C	-6.80	102.47	111.24
5	E	346	GLN	N-CA-CB	6.80	121.98	110.49
8	P	1168	LYS	CA-C-O	6.80	129.15	122.01
9	T	101	PRO	N-CA-CB	6.80	110.39	103.25
9	T	651	ASP	CA-C-N	6.80	129.78	120.46
9	T	651	ASP	C-N-CA	6.80	129.78	120.46
5	B	411	ARG	NE-CZ-NH1	6.80	128.30	121.50
3	1	195	ASP	N-CA-C	-6.80	103.57	112.41
2	Y	1413	VAL	CB-CA-C	6.79	121.31	112.14
2	Y	1434	ILE	CA-CB-CG2	6.79	122.05	110.50
3	Z	1001	ARG	NE-CZ-NH2	-6.79	113.09	119.20
7	M	1098	SER	N-CA-C	6.79	118.68	111.28
3	Z	582	THR	CA-CB-OG1	6.79	119.79	109.60
7	M	873	ASN	CA-C-N	6.79	129.38	120.28
7	M	873	ASN	C-N-CA	6.79	129.38	120.28
2	0	491	ARG	CA-C-N	-6.79	111.23	120.87
2	0	491	ARG	C-N-CA	-6.79	111.23	120.87
3	Z	743	PHE	O-C-N	6.79	130.91	123.10
5	E	313	TYR	CA-CB-CG	-6.79	101.68	113.90
9	Q	427	ALA	CA-C-N	6.79	129.67	122.14
9	Q	427	ALA	C-N-CA	6.79	129.67	122.14
5	H	378	HIS	CB-CG-CD2	-6.79	122.37	131.20
7	O	1015	ARG	CA-C-N	6.79	132.77	122.93
7	O	1015	ARG	C-N-CA	6.79	132.77	122.93
11	X	353	GLU	N-CA-C	-6.79	105.03	113.38
3	Z	445	SER	N-CA-CB	6.79	120.41	109.28
8	N	1623	GLU	CA-C-N	6.79	129.26	120.44
8	N	1623	GLU	C-N-CA	6.79	129.26	120.44
2	0	967	LEU	CA-C-N	6.79	129.37	120.28
2	0	967	LEU	C-N-CA	6.79	129.37	120.28
7	O	642	PHE	CA-CB-CG	6.79	120.59	113.80
7	O	1063	ILE	CA-C-O	-6.79	113.98	121.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	1399	VAL	O-C-N	6.79	128.82	121.83
3	Z	970	PHE	CA-C-N	6.78	129.37	120.28
3	Z	970	PHE	C-N-CA	6.78	129.37	120.28
6	C	385	GLU	CA-C-N	6.78	130.62	120.31
6	C	385	GLU	C-N-CA	6.78	130.62	120.31
7	M	1258	HIS	CA-CB-CG	-6.78	107.02	113.80
8	N	122	ILE	N-CA-C	-6.78	103.42	113.39
8	N	794	ILE	N-CA-C	-6.78	106.39	112.90
8	P	1562	ASN	OD1-CG-ND2	6.78	129.38	122.60
9	Q	33	PRO	N-CA-CB	6.78	110.37	103.25
2	0	1057	VAL	CB-CA-C	6.78	120.46	111.85
4	G	682	ASP	CA-CB-CG	6.78	119.38	112.60
7	O	291	GLU	CA-C-N	6.78	128.25	122.28
7	O	291	GLU	C-N-CA	6.78	128.25	122.28
8	N	643	GLU	CA-C-O	6.78	127.73	120.55
5	E	309	ARG	N-CA-C	-6.77	97.02	108.26
7	M	307	ASP	CA-C-N	6.77	128.56	120.09
7	M	307	ASP	C-N-CA	6.77	128.56	120.09
11	V	353	GLU	N-CA-C	-6.77	105.05	113.38
9	T	727	TYR	CA-C-N	6.77	129.35	120.28
9	T	727	TYR	C-N-CA	6.77	129.35	120.28
3	1	393	VAL	CA-C-N	6.77	130.49	120.87
3	1	393	VAL	C-N-CA	6.77	130.49	120.87
2	Y	491	ARG	CA-C-N	-6.77	111.26	120.87
2	Y	491	ARG	C-N-CA	-6.77	111.26	120.87
2	Y	504	PRO	CA-C-N	6.77	129.73	120.46
2	Y	504	PRO	C-N-CA	6.77	129.73	120.46
3	Z	83	SER	N-CA-CB	6.77	119.92	109.97
3	1	1322	TYR	CA-C-O	-6.77	113.71	120.82
9	R	474	PHE	N-CA-C	-6.77	102.51	111.24
8	P	167	ASP	CA-C-N	6.77	129.35	120.28
8	P	167	ASP	C-N-CA	6.77	129.35	120.28
8	N	617	TYR	N-CA-CB	6.76	120.10	109.82
9	T	591	GLY	CA-C-O	-6.76	116.11	122.13
7	M	1530	GLU	N-CA-CB	6.76	120.06	110.12
8	N	1302	SER	CA-C-O	-6.76	113.74	121.65
2	0	504	PRO	CA-C-N	6.76	129.72	120.46
2	0	504	PRO	C-N-CA	6.76	129.72	120.46
2	0	1211	PHE	CA-C-N	6.76	129.89	120.29
2	0	1211	PHE	C-N-CA	6.76	129.89	120.29
8	P	1281	MET	CA-C-O	6.76	127.92	120.82
2	Y	1201	TRP	CA-CB-CG	6.76	126.44	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	H	514	THR	CA-C-N	6.76	130.59	120.31
5	H	514	THR	C-N-CA	6.76	130.59	120.31
7	O	1098	SER	N-CA-C	6.76	118.65	111.28
7	O	1530	GLU	N-CA-CB	6.76	120.06	110.12
8	N	167	ASP	CA-C-N	6.76	129.34	120.28
8	N	167	ASP	C-N-CA	6.76	129.34	120.28
7	O	307	ASP	CA-C-N	6.76	128.54	120.09
7	O	307	ASP	C-N-CA	6.76	128.54	120.09
7	O	582	PHE	O-C-N	6.76	129.85	122.15
9	S	665	LEU	CB-CA-C	-6.76	99.57	110.79
2	Y	1057	VAL	CB-CA-C	6.76	120.43	111.85
2	Y	1228	THR	CA-C-N	6.76	129.33	120.28
2	Y	1228	THR	C-N-CA	6.76	129.33	120.28
9	Q	665	LEU	CB-CA-C	-6.76	99.58	110.79
8	P	123	ASP	O-C-N	-6.76	113.60	122.59
8	P	941	SER	CA-C-N	6.76	126.38	119.56
8	P	941	SER	C-N-CA	6.76	126.38	119.56
8	N	123	ASP	O-C-N	-6.75	113.61	122.59
2	Y	184	ILE	CA-C-O	-6.75	113.33	120.76
9	S	427	ALA	CA-C-N	6.75	129.64	122.14
9	S	427	ALA	C-N-CA	6.75	129.64	122.14
8	N	964	GLN	N-CA-C	-6.75	99.36	109.83
5	K	337	GLN	CA-C-N	6.75	130.57	120.31
5	K	337	GLN	C-N-CA	6.75	130.57	120.31
7	O	1258	HIS	CA-CB-CG	-6.75	107.05	113.80
9	S	317	ASP	N-CA-C	-6.75	103.72	112.23
9	T	720	ILE	N-CA-CB	6.75	120.71	110.58
3	1	83	SER	N-CA-CB	6.75	119.89	109.97
8	P	1150	ILE	N-CA-C	-6.75	106.55	113.10
2	0	205	ASP	N-CA-CB	6.75	124.55	111.53
8	P	964	GLN	N-CA-C	-6.75	99.37	109.83
8	P	1600	ALA	CA-C-N	6.75	129.32	120.28
8	P	1600	ALA	C-N-CA	6.75	129.32	120.28
9	T	729	ASN	CA-C-N	6.75	131.94	122.36
9	T	729	ASN	C-N-CA	6.75	131.94	122.36
9	Q	470	GLY	O-C-N	-6.75	115.03	121.77
9	S	101	PRO	N-CA-CB	6.75	110.42	103.00
9	R	765	ASP	CA-C-N	6.74	130.56	120.31
9	R	765	ASP	C-N-CA	6.74	130.56	120.31
7	M	1015	ARG	CA-C-N	6.74	132.71	122.93
7	M	1015	ARG	C-N-CA	6.74	132.71	122.93
7	M	1399	VAL	O-C-N	6.74	128.77	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	Q	317	ASP	N-CA-C	-6.74	103.74	112.23
3	1	616	THR	CA-C-N	6.74	127.29	119.47
3	1	616	THR	C-N-CA	6.74	127.29	119.47
8	P	656	GLN	N-CA-C	6.74	118.71	111.36
5	B	538	LYS	O-C-N	6.74	129.07	121.93
7	M	260	MET	N-CA-CB	6.74	120.03	110.12
8	N	1561	LEU	O-C-N	6.74	129.26	122.12
9	Q	64	LYS	CA-C-N	6.74	129.20	120.44
9	Q	64	LYS	C-N-CA	6.74	129.20	120.44
2	0	788	HIS	CE1-NE2-CD2	-6.74	102.26	109.00
3	1	970	PHE	CA-C-N	6.74	129.31	120.28
3	1	970	PHE	C-N-CA	6.74	129.31	120.28
8	P	914	ASP	CA-C-N	6.74	134.41	121.54
8	P	914	ASP	C-N-CA	6.74	134.41	121.54
9	S	487	LEU	CA-C-N	6.74	129.20	120.44
9	S	487	LEU	C-N-CA	6.74	129.20	120.44
8	N	1036	ASP	CA-C-O	6.74	125.02	119.36
3	1	199	HIS	CB-CG-CD2	-6.74	122.44	131.20
8	N	1281	MET	CA-C-O	6.74	127.89	120.82
9	Q	487	LEU	CA-C-N	6.74	129.20	120.44
9	Q	487	LEU	C-N-CA	6.74	129.20	120.44
9	R	591	GLY	CA-C-O	-6.74	116.14	122.13
3	1	801	LEU	CA-C-N	6.74	129.69	120.46
3	1	801	LEU	C-N-CA	6.74	129.69	120.46
3	Z	195	ASP	N-CA-C	-6.73	103.66	112.41
2	0	184	ILE	CA-C-O	-6.73	113.35	120.76
8	N	656	GLN	N-CA-C	6.73	118.70	111.36
9	R	129	LEU	N-CA-C	6.73	118.27	111.07
7	O	217	LEU	CA-C-O	6.73	127.69	120.55
2	0	468	PRO	CA-C-N	6.73	126.71	119.78
2	0	468	PRO	C-N-CA	6.73	126.71	119.78
3	1	743	PHE	O-C-N	6.73	130.84	123.10
5	H	538	LYS	O-C-N	6.73	129.06	121.93
7	O	1320	GLU	CA-C-N	6.73	126.99	119.32
7	O	1320	GLU	C-N-CA	6.73	126.99	119.32
8	N	560	ASN	CA-CB-CG	6.73	119.33	112.60
9	Q	101	PRO	N-CA-CB	6.73	110.40	103.00
9	T	138	ASN	CA-C-N	6.73	129.19	120.44
9	T	138	ASN	C-N-CA	6.73	129.19	120.44
3	1	445	SER	N-CA-CB	6.73	120.31	109.28
5	H	538	LYS	N-CA-C	-6.72	104.42	114.64
9	S	574	GLU	CA-C-N	6.72	129.29	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	574	GLU	C-N-CA	6.72	129.29	120.28
5	B	538	LYS	N-CA-C	-6.72	104.42	114.64
3	1	91	LEU	CA-C-N	6.72	129.18	120.44
3	1	91	LEU	C-N-CA	6.72	129.18	120.44
3	1	117	TYR	O-C-N	6.72	129.77	121.84
2	Y	1370	VAL	CA-C-N	6.72	129.29	120.28
2	Y	1370	VAL	C-N-CA	6.72	129.29	120.28
3	Z	91	LEU	CA-C-N	6.72	129.18	120.44
3	Z	91	LEU	C-N-CA	6.72	129.18	120.44
3	Z	801	LEU	CA-C-N	6.72	129.67	120.46
3	Z	801	LEU	C-N-CA	6.72	129.67	120.46
5	K	309	ARG	N-CA-C	-6.72	97.10	108.26
2	0	1228	THR	CA-C-N	6.72	129.28	120.28
2	0	1228	THR	C-N-CA	6.72	129.28	120.28
8	P	381	VAL	N-CA-C	-6.72	103.77	110.62
5	B	332	GLN	O-C-N	-6.72	113.66	122.59
2	0	681	THR	CA-C-N	6.72	129.28	120.28
2	0	681	THR	C-N-CA	6.72	129.28	120.28
2	Y	1211	PHE	CA-C-N	6.71	129.82	120.29
2	Y	1211	PHE	C-N-CA	6.71	129.82	120.29
8	P	617	TYR	N-CA-CB	6.71	120.03	109.82
2	Y	1093	ASP	CA-C-O	6.71	127.40	119.28
7	M	642	PHE	CA-CB-CG	6.71	120.51	113.80
9	S	98	PRO	N-CA-CB	6.71	110.41	103.23
3	Z	122	ASP	N-CA-C	-6.71	98.46	109.40
2	0	1201	TRP	CA-CB-CG	6.71	126.35	113.60
6	I	402	ASP	CA-CB-CG	-6.71	105.89	112.60
8	P	396	THR	CA-C-N	6.71	129.27	120.28
8	P	396	THR	C-N-CA	6.71	129.27	120.28
6	C	355	GLN	N-CA-C	-6.71	102.29	110.88
6	F	285	GLN	O-C-N	6.71	130.52	122.27
7	M	1270	GLN	CA-C-N	6.71	129.27	120.28
7	M	1270	GLN	C-N-CA	6.71	129.27	120.28
5	E	337	GLN	CA-C-N	6.71	130.50	120.31
5	E	337	GLN	C-N-CA	6.71	130.50	120.31
8	N	396	THR	CA-C-N	6.71	129.27	120.28
8	N	396	THR	C-N-CA	6.71	129.27	120.28
9	S	329	ASN	CA-CB-CG	-6.71	105.89	112.60
9	T	466	ILE	O-C-N	-6.71	115.34	121.91
8	N	1062	ARG	NE-CZ-NH1	6.70	128.20	121.50
2	0	109	ASP	CA-CB-CG	6.70	119.30	112.60
7	M	979	LYS	CA-C-N	6.70	129.56	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	979	LYS	C-N-CA	6.70	129.56	120.38
8	N	261	ILE	CB-CA-C	6.70	120.55	111.97
8	P	1036	ASP	CA-C-O	6.70	124.99	119.36
3	Z	199	HIS	CB-CG-CD2	-6.70	122.49	131.20
8	P	1062	ARG	NE-CZ-NH1	6.70	128.20	121.50
2	Y	205	ASP	N-CA-CB	6.70	124.45	111.53
2	Y	468	PRO	CA-C-N	6.70	126.68	119.78
2	Y	468	PRO	C-N-CA	6.70	126.68	119.78
2	Y	967	LEU	CA-C-N	6.70	129.25	120.28
2	Y	967	LEU	C-N-CA	6.70	129.25	120.28
8	N	745	HIS	O-C-N	-6.70	115.02	122.12
8	N	914	ASP	CA-C-N	6.70	134.33	121.54
8	N	914	ASP	C-N-CA	6.70	134.33	121.54
6	I	355	GLN	N-CA-C	-6.69	102.31	110.88
7	M	965	LEU	CA-C-N	6.69	129.57	120.54
7	M	965	LEU	C-N-CA	6.69	129.57	120.54
8	N	1313	ARG	N-CA-CB	6.69	119.96	110.12
9	Q	301	ASN	CA-CB-CG	6.69	119.29	112.60
3	1	1109	LEU	O-C-N	6.69	129.32	122.09
5	H	332	GLN	O-C-N	-6.69	113.69	122.59
5	H	410	LYS	N-CA-C	6.69	118.58	111.28
8	N	1584	GLU	CA-C-N	6.69	130.48	120.31
8	N	1584	GLU	C-N-CA	6.69	130.48	120.31
8	P	1584	GLU	CA-C-N	6.69	130.48	120.31
8	P	1584	GLU	C-N-CA	6.69	130.48	120.31
11	X	382	ILE	N-CA-CB	6.69	119.04	111.21
8	N	381	VAL	N-CA-C	-6.69	103.80	110.62
9	R	466	ILE	O-C-N	-6.69	115.36	121.91
9	R	729	ASN	CA-C-N	6.69	131.86	122.36
9	R	729	ASN	C-N-CA	6.69	131.86	122.36
6	L	331	LYS	O-C-N	6.69	128.96	122.07
8	P	1026	THR	CA-C-O	6.69	127.42	119.60
8	P	1302	SER	CA-C-O	-6.69	113.83	121.65
8	P	560	ASN	CA-CB-CG	6.69	119.29	112.60
5	B	410	LYS	N-CA-C	6.68	118.57	111.28
7	M	1527	ARG	NE-CZ-NH1	-6.68	114.81	121.50
2	0	1426	MET	CA-C-N	6.68	129.13	120.44
2	0	1426	MET	C-N-CA	6.68	129.13	120.44
9	S	397	HIS	CA-C-O	6.68	127.41	119.06
3	1	1320	LYS	N-CA-CB	6.68	120.05	110.16
6	C	308	ILE	O-C-N	-6.68	113.48	121.10
7	M	1063	ILE	CA-C-O	-6.68	114.11	121.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	1209	ALA	CA-C-N	6.68	129.12	120.44
8	N	1209	ALA	C-N-CA	6.68	129.12	120.44
8	N	1496	SER	N-CA-C	6.68	118.44	111.03
7	O	260	MET	N-CA-CB	6.68	119.94	110.12
2	Y	475	GLU	O-C-N	6.68	129.03	122.09
2	0	1395	CYS	N-CA-CB	6.68	119.69	110.01
4	G	672	GLY	CA-C-N	6.68	127.34	120.00
4	G	672	GLY	C-N-CA	6.68	127.34	120.00
8	P	1209	ALA	CA-C-N	6.67	129.12	120.44
8	P	1209	ALA	C-N-CA	6.67	129.12	120.44
8	P	1313	ARG	N-CA-CB	6.67	119.93	110.12
6	C	402	ASP	CA-CB-CG	-6.67	105.93	112.60
3	1	1260	SER	CA-C-N	6.67	129.22	120.28
3	1	1260	SER	C-N-CA	6.67	129.22	120.28
7	O	1545	ARG	NE-CZ-NH1	6.67	128.17	121.50
9	Q	770	ASN	CA-C-N	6.67	126.83	120.43
9	Q	770	ASN	C-N-CA	6.67	126.83	120.43
3	1	767	ASN	OD1-CG-ND2	6.67	129.27	122.60
3	1	122	ASP	N-CA-C	-6.67	98.53	109.40
8	N	393	THR	CA-C-N	6.67	129.21	120.28
8	N	393	THR	C-N-CA	6.67	129.21	120.28
8	N	941	SER	CA-C-N	6.67	126.29	119.56
8	N	941	SER	C-N-CA	6.67	126.29	119.56
2	Y	1395	CYS	N-CA-CB	6.66	119.67	110.01
9	Q	150	ASN	CA-C-N	6.66	129.10	120.44
9	Q	150	ASN	C-N-CA	6.66	129.10	120.44
9	Q	194	ASN	CA-CB-CG	-6.66	105.94	112.60
11	V	382	ILE	N-CA-CB	6.66	119.01	111.21
2	0	1370	VAL	CA-C-N	6.66	129.21	120.28
2	0	1370	VAL	C-N-CA	6.66	129.21	120.28
6	F	331	LYS	O-C-N	6.66	128.93	122.07
6	L	399	ASN	OD1-CG-ND2	6.66	129.26	122.60
9	T	474	PHE	N-CA-CB	6.66	119.86	110.07
7	M	1320	GLU	CA-C-N	6.66	126.91	119.32
7	M	1320	GLU	C-N-CA	6.66	126.91	119.32
9	R	474	PHE	N-CA-CB	6.66	119.86	110.07
7	M	320	GLU	CA-C-N	6.66	129.74	120.29
7	M	320	GLU	C-N-CA	6.66	129.74	120.29
9	Q	574	GLU	CA-C-N	6.66	129.20	120.28
9	Q	574	GLU	C-N-CA	6.66	129.20	120.28
9	Q	309	ILE	CA-C-N	6.66	129.20	120.28
9	Q	309	ILE	C-N-CA	6.66	129.20	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z	1109	LEU	O-C-N	6.65	129.28	122.09
7	M	456	ALA	CA-C-N	6.65	129.49	120.44
7	M	456	ALA	C-N-CA	6.65	129.49	120.44
8	N	1589	LEU	N-CA-C	-6.65	102.52	113.50
9	Q	98	PRO	N-CA-CB	6.65	110.35	103.23
9	Q	397	HIS	CA-C-O	6.65	127.38	119.06
9	R	138	ASN	CA-C-N	6.65	129.09	120.44
9	R	138	ASN	C-N-CA	6.65	129.09	120.44
2	0	630	THR	CA-C-N	6.65	129.09	120.44
2	0	630	THR	C-N-CA	6.65	129.09	120.44
9	S	365	GLN	CA-C-N	6.65	129.19	120.28
9	S	365	GLN	C-N-CA	6.65	129.19	120.28
7	O	456	ALA	CA-C-N	6.65	129.49	120.44
7	O	456	ALA	C-N-CA	6.65	129.49	120.44
7	O	502	ASP	CA-CB-CG	6.65	119.25	112.60
5	B	401	ALA	N-CA-CB	6.65	119.89	110.12
11	X	298	PHE	N-CA-C	6.65	118.61	111.36
2	Y	109	ASP	CA-CB-CG	6.65	119.25	112.60
2	Y	1315	LEU	N-CA-C	-6.65	104.39	113.30
8	N	566	GLY	CA-C-N	6.65	129.48	120.44
8	N	566	GLY	C-N-CA	6.65	129.48	120.44
8	P	1496	SER	N-CA-C	6.65	118.41	111.03
5	H	535	LYS	N-CA-CB	6.64	120.16	110.26
8	N	574	HIS	O-C-N	6.64	128.91	122.07
9	R	206	ASN	CA-CB-CG	-6.64	105.96	112.60
8	P	393	THR	CA-C-N	6.64	129.18	120.28
8	P	393	THR	C-N-CA	6.64	129.18	120.28
7	M	1641	PHE	CA-CB-CG	-6.64	107.16	113.80
2	Y	1426	MET	CA-C-N	6.64	129.07	120.44
2	Y	1426	MET	C-N-CA	6.64	129.07	120.44
3	Z	767	ASN	OD1-CG-ND2	6.64	129.24	122.60
5	B	357	GLY	CA-C-O	-6.64	113.00	120.30
2	0	1093	ASP	CA-C-O	6.64	127.31	119.28
7	O	320	GLU	CA-C-N	6.64	129.72	120.29
7	O	320	GLU	C-N-CA	6.64	129.72	120.29
9	Q	329	ASN	CA-CB-CG	-6.64	105.96	112.60
7	O	236	ALA	CA-C-O	-6.64	113.51	120.55
8	P	261	ILE	CB-CA-C	6.64	120.47	111.97
8	P	1561	LEU	O-C-N	6.64	129.16	122.12
9	T	206	ASN	CA-CB-CG	-6.64	105.96	112.60
2	Y	643	THR	CA-CB-CG2	-6.64	99.22	110.50
6	C	350	PHE	CA-CB-CG	-6.64	107.16	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	R	56	LEU	CA-C-N	6.64	129.17	120.28
9	R	56	LEU	C-N-CA	6.64	129.17	120.28
9	R	727	TYR	CA-C-N	6.64	129.17	120.28
9	R	727	TYR	C-N-CA	6.64	129.17	120.28
7	O	965	LEU	CA-C-N	6.64	129.50	120.54
7	O	965	LEU	C-N-CA	6.64	129.50	120.54
9	S	72	LEU	O-C-N	6.64	131.18	123.02
3	Z	1320	LYS	N-CA-CB	6.63	119.98	110.16
7	O	669	THR	CA-C-N	6.63	134.21	121.54
7	O	669	THR	C-N-CA	6.63	134.21	121.54
7	O	1270	GLN	CA-C-N	6.63	129.17	120.28
7	O	1270	GLN	C-N-CA	6.63	129.17	120.28
6	I	350	PHE	CA-CB-CG	-6.63	107.17	113.80
4	J	817	GLN	CB-CG-CD	-6.63	101.33	112.60
2	Y	657	GLU	O-C-N	6.63	129.15	122.12
7	M	1058	ALA	CA-C-N	6.63	129.17	120.28
7	M	1058	ALA	C-N-CA	6.63	129.17	120.28
6	L	285	GLN	O-C-N	6.63	130.42	122.27
7	O	1058	ALA	CA-C-N	6.63	129.16	120.28
7	O	1058	ALA	C-N-CA	6.63	129.16	120.28
9	S	194	ASN	CA-CB-CG	-6.63	105.97	112.60
4	A	672	GLY	CA-C-N	6.63	127.29	120.00
4	A	672	GLY	C-N-CA	6.63	127.29	120.00
7	M	502	ASP	CA-CB-CG	6.63	119.23	112.60
2	0	1060	TYR	CA-C-N	6.63	126.07	118.85
2	0	1060	TYR	C-N-CA	6.63	126.07	118.85
7	M	1666	MET	CA-C-N	6.62	129.54	120.46
7	M	1666	MET	C-N-CA	6.62	129.54	120.46
10	W	310	GLY	CA-C-N	6.62	132.04	121.18
10	W	310	GLY	C-N-CA	6.62	132.04	121.18
2	0	643	THR	CA-CB-CG2	-6.62	99.24	110.50
2	0	898	LYS	N-CA-C	6.62	118.16	111.07
7	O	662	PRO	CA-C-O	-6.62	113.67	121.95
7	O	979	LYS	CA-C-N	6.62	129.45	120.38
7	O	979	LYS	C-N-CA	6.62	129.45	120.38
7	M	562	LEU	CA-C-N	6.62	129.15	120.28
7	M	562	LEU	C-N-CA	6.62	129.15	120.28
2	0	1080	ALA	O-C-N	-6.62	115.10	122.12
5	K	303	THR	CA-C-N	6.62	130.75	120.75
5	K	303	THR	C-N-CA	6.62	130.75	120.75
7	O	1641	PHE	CA-CB-CG	-6.62	107.18	113.80
9	S	309	ILE	CA-C-N	6.62	129.15	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	309	ILE	C-N-CA	6.62	129.15	120.28
2	0	1140	LYS	CA-C-N	6.62	129.15	120.28
2	0	1140	LYS	C-N-CA	6.62	129.15	120.28
2	0	908	SER	N-CA-C	-6.62	104.07	111.28
5	E	303	THR	CA-C-N	6.62	130.74	120.75
5	E	303	THR	C-N-CA	6.62	130.74	120.75
5	E	317	ASN	N-CA-C	6.62	124.89	110.80
7	O	250	ALA	CA-C-O	6.62	127.78	120.63
2	0	1288	ALA	CA-C-N	6.62	129.55	120.35
2	0	1288	ALA	C-N-CA	6.62	129.55	120.35
3	1	1064	VAL	CB-CA-C	-6.62	103.50	111.97
6	I	308	ILE	O-C-N	-6.62	113.56	121.10
2	Y	194	ASN	CA-CB-CG	-6.61	105.99	112.60
3	1	537	LYS	CA-C-O	-6.61	113.32	120.92
3	1	1175	ASN	CA-C-O	6.61	127.57	119.97
9	Q	72	LEU	O-C-N	6.61	131.15	123.02
7	O	1249	ILE	O-C-N	6.61	128.28	121.87
8	P	574	HIS	O-C-N	6.61	128.88	122.07
5	B	535	LYS	N-CA-CB	6.61	120.11	110.26
10	U	310	GLY	CA-C-N	6.61	132.02	121.18
10	U	310	GLY	C-N-CA	6.61	132.02	121.18
4	D	817	GLN	CB-CG-CD	-6.61	101.37	112.60
8	P	1379	GLU	CA-C-O	6.61	127.57	119.97
2	Y	657	GLU	CA-C-O	-6.61	113.55	120.55
7	M	662	PRO	CA-C-O	-6.61	113.69	121.95
5	H	357	GLY	CA-C-O	-6.61	113.03	120.30
5	K	440	PHE	N-CA-CB	6.61	120.39	110.22
9	S	301	ASN	CA-CB-CG	6.61	119.20	112.60
9	S	770	ASN	CA-C-N	6.61	126.77	120.43
9	S	770	ASN	C-N-CA	6.61	126.77	120.43
2	Y	1060	TYR	CA-C-N	6.60	126.05	118.85
2	Y	1060	TYR	C-N-CA	6.60	126.05	118.85
7	M	1545	ARG	NE-CZ-NH1	6.60	128.10	121.50
9	Q	465	ILE	CA-C-N	6.60	128.88	120.56
9	Q	465	ILE	C-N-CA	6.60	128.88	120.56
7	M	669	THR	CA-C-N	6.60	134.15	121.54
7	M	669	THR	C-N-CA	6.60	134.15	121.54
7	M	1089	ASN	CA-C-O	-6.60	113.20	119.80
2	0	1315	LEU	N-CA-C	-6.60	104.45	113.30
3	Z	1175	ASN	CA-C-O	6.60	127.56	119.97
7	M	1249	ILE	O-C-N	6.60	128.27	121.87
2	0	657	GLU	O-C-N	6.60	129.12	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	0	1012	ARG	NE-CZ-NH1	-6.60	114.90	121.50
2	Y	1119	ALA	N-CA-C	6.60	118.55	111.36
2	Y	1288	ALA	CA-C-N	6.60	129.52	120.35
2	Y	1288	ALA	C-N-CA	6.60	129.52	120.35
7	O	458	GLU	CA-C-N	6.60	129.66	120.29
7	O	458	GLU	C-N-CA	6.60	129.66	120.29
3	Z	729	PHE	CA-CB-CG	-6.60	107.20	113.80
7	M	250	ALA	CA-C-O	6.60	127.75	120.63
2	0	475	GLU	O-C-N	6.60	128.95	122.09
3	1	1053	ARG	N-CA-C	6.60	118.13	111.07
9	Q	365	GLN	CA-C-N	6.60	129.12	120.28
9	Q	365	GLN	C-N-CA	6.60	129.12	120.28
9	S	150	ASN	CA-C-N	6.60	129.01	120.44
9	S	150	ASN	C-N-CA	6.60	129.01	120.44
2	0	997	SER	CA-C-N	6.59	129.78	120.28
2	0	997	SER	C-N-CA	6.59	129.78	120.28
7	O	1089	ASN	CA-C-O	-6.59	113.21	119.80
8	P	1589	LEU	N-CA-C	-6.59	102.62	113.50
3	Z	537	LYS	CA-C-O	-6.59	113.34	120.92
3	Z	1260	SER	CA-C-N	6.59	129.11	120.28
3	Z	1260	SER	C-N-CA	6.59	129.11	120.28
8	N	299	ASN	CA-C-N	6.59	129.11	120.28
8	N	299	ASN	C-N-CA	6.59	129.11	120.28
10	U	277	LEU	N-CA-C	-6.59	105.12	112.57
7	O	414	ASN	N-CA-C	6.59	119.53	110.24
3	Z	1064	VAL	CB-CA-C	-6.59	103.54	111.97
7	M	860	ASN	CA-CB-CG	-6.59	106.01	112.60
3	1	729	PHE	CA-CB-CG	-6.59	107.21	113.80
8	P	566	GLY	CA-C-N	6.59	129.40	120.44
8	P	566	GLY	C-N-CA	6.59	129.40	120.44
7	M	132	GLN	O-C-N	6.59	129.10	122.12
9	R	612	HIS	ND1-CE1-NE2	6.58	114.98	108.40
3	1	872	ASN	CA-C-N	6.58	129.10	120.28
3	1	872	ASN	C-N-CA	6.58	129.10	120.28
7	M	229	PHE	CA-CB-CG	-6.58	107.22	113.80
9	T	56	LEU	CA-C-N	6.58	129.10	120.28
9	T	56	LEU	C-N-CA	6.58	129.10	120.28
7	M	984	THR	CA-CB-OG1	6.58	119.47	109.60
3	1	850	HIS	CA-CB-CG	6.58	120.38	113.80
9	S	252	GLN	N-CA-C	6.58	118.45	111.28
2	Y	169	THR	N-CA-C	-6.58	105.29	113.38
3	1	373	LEU	CA-C-N	6.58	131.67	123.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1	373	LEU	C-N-CA	6.58	131.67	123.12
5	K	325	THR	N-CA-C	6.58	124.81	110.80
3	1	1185	GLU	CA-C-N	6.58	129.63	120.29
3	1	1185	GLU	C-N-CA	6.58	129.63	120.29
3	Z	373	LEU	CA-C-N	6.57	131.67	123.12
3	Z	373	LEU	C-N-CA	6.57	131.67	123.12
8	N	332	ARG	CD-NE-CZ	6.57	133.60	124.40
2	Y	630	THR	CA-C-N	6.57	128.98	120.44
2	Y	630	THR	C-N-CA	6.57	128.98	120.44
2	Y	908	SER	N-CA-C	-6.57	104.12	111.28
7	O	984	THR	CA-CB-OG1	6.57	119.45	109.60
7	M	236	ALA	CA-C-O	-6.57	113.59	120.55
8	P	17	HIS	CE1-NE2-CD2	-6.57	102.43	109.00
3	Z	850	HIS	CA-CB-CG	6.57	120.37	113.80
9	Q	676	GLY	N-CA-C	-6.57	98.94	112.34
8	P	100	GLU	CA-C-N	6.57	128.98	120.44
8	P	100	GLU	C-N-CA	6.57	128.98	120.44
7	M	1126	PRO	N-CA-CB	6.57	108.83	103.32
2	0	194	ASN	CA-CB-CG	-6.57	106.03	112.60
7	O	860	ASN	CA-CB-CG	-6.57	106.03	112.60
7	O	1126	PRO	N-CA-CB	6.57	108.83	103.32
7	M	852	SER	CA-C-N	6.56	129.91	120.98
7	M	852	SER	C-N-CA	6.56	129.91	120.98
8	N	100	GLU	CA-C-N	6.56	128.97	120.44
8	N	100	GLU	C-N-CA	6.56	128.97	120.44
3	Z	1053	ARG	N-CA-C	6.56	118.09	111.07
3	Z	1185	GLU	N-CA-C	6.56	118.09	111.07
5	E	440	PHE	N-CA-CB	6.56	120.33	110.22
7	O	1416	VAL	CA-C-O	-6.56	114.12	120.95
9	S	676	GLY	N-CA-C	-6.56	98.95	112.34
7	M	1503	THR	N-CA-CB	6.56	119.38	109.34
2	0	1050	ALA	N-CA-C	6.56	118.43	111.28
7	O	132	GLN	O-C-N	6.56	129.07	122.12
7	O	852	SER	CA-C-N	6.56	129.90	120.98
7	O	852	SER	C-N-CA	6.56	129.90	120.98
2	Y	997	SER	CA-C-N	6.56	129.72	120.28
2	Y	997	SER	C-N-CA	6.56	129.72	120.28
7	M	246	VAL	N-CA-C	-6.56	103.85	111.00
7	M	458	GLU	CA-C-N	6.56	129.60	120.29
7	M	458	GLU	C-N-CA	6.56	129.60	120.29
8	N	17	HIS	CE1-NE2-CD2	-6.56	102.44	109.00
9	R	212	PHE	CA-CB-CG	-6.56	107.24	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	14	SER	N-CA-CB	6.56	119.76	110.12
2	0	169	THR	N-CA-C	-6.55	105.32	113.38
2	0	1047	LEU	CA-C-N	6.55	128.96	120.44
2	0	1047	LEU	C-N-CA	6.55	128.96	120.44
3	1	962	LYS	CA-C-N	6.55	128.96	120.44
3	1	962	LYS	C-N-CA	6.55	128.96	120.44
8	P	1001	ASN	CA-CB-CG	-6.55	106.05	112.60
9	T	756	LYS	CA-C-N	6.55	129.60	120.29
9	T	756	LYS	C-N-CA	6.55	129.60	120.29
9	R	252	GLN	CA-C-O	-6.55	113.60	120.55
5	H	401	ALA	N-CA-CB	6.55	119.75	110.12
5	H	469	ARG	NE-CZ-NH1	-6.55	114.95	121.50
3	Z	872	ASN	CA-C-N	6.55	129.06	120.28
3	Z	872	ASN	C-N-CA	6.55	129.06	120.28
7	M	571	ASN	CA-C-N	6.55	129.06	120.28
7	M	571	ASN	C-N-CA	6.55	129.06	120.28
7	O	562	LEU	CA-C-N	6.55	129.06	120.28
7	O	562	LEU	C-N-CA	6.55	129.06	120.28
3	1	856	ASN	CB-CG-OD1	-6.55	107.70	120.80
7	O	246	VAL	N-CA-C	-6.55	103.86	111.00
9	T	612	HIS	ND1-CE1-NE2	6.55	114.95	108.40
2	0	275	SER	N-CA-C	6.55	120.07	109.40
8	P	332	ARG	CD-NE-CZ	6.55	133.57	124.40
2	Y	1047	LEU	CA-C-N	6.55	128.95	120.44
2	Y	1047	LEU	C-N-CA	6.55	128.95	120.44
7	M	1416	VAL	CA-C-O	-6.55	114.14	120.95
9	S	121	LEU	CA-C-N	6.55	128.95	120.44
9	S	121	LEU	C-N-CA	6.55	128.95	120.44
9	T	212	PHE	CA-CB-CG	-6.55	107.25	113.80
9	S	316	ALA	CA-C-N	6.54	131.81	120.68
9	S	316	ALA	C-N-CA	6.54	131.81	120.68
3	Z	508	PHE	CA-C-O	6.54	127.56	120.43
7	O	1666	MET	CA-C-N	6.54	129.43	120.46
7	O	1666	MET	C-N-CA	6.54	129.43	120.46
10	W	277	LEU	N-CA-C	-6.54	105.18	112.57
5	E	322	ILE	N-CA-C	6.54	117.29	110.62
8	N	1001	ASN	CA-CB-CG	-6.54	106.06	112.60
3	1	1360	SER	N-CA-CB	6.54	120.14	110.53
2	Y	1080	ALA	O-C-N	-6.54	115.19	122.12
8	N	620	ASN	CA-CB-CG	6.54	119.14	112.60
8	N	1116	ASP	N-CA-C	-6.54	105.22	113.72
7	M	14	SER	N-CA-CB	6.54	119.73	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	Q	72	LEU	CA-C-N	6.54	134.03	121.54
9	Q	72	LEU	C-N-CA	6.54	134.03	121.54
7	O	1253	ARG	CA-C-N	6.54	129.57	120.29
7	O	1253	ARG	C-N-CA	6.54	129.57	120.29
9	T	252	GLN	CA-C-O	-6.54	113.62	120.55
3	Z	265	SER	CA-C-N	6.54	131.94	122.85
3	Z	265	SER	C-N-CA	6.54	131.94	122.85
8	N	989	ASP	CA-CB-CG	6.54	119.14	112.60
7	O	342	TYR	N-CA-C	-6.54	99.25	109.25
9	T	230	GLY	O-C-N	-6.54	115.41	123.12
2	Y	1140	LYS	CA-C-N	6.53	129.03	120.28
2	Y	1140	LYS	C-N-CA	6.53	129.03	120.28
2	Y	275	SER	N-CA-C	6.53	120.05	109.40
9	R	756	LYS	CA-C-N	6.53	129.57	120.29
9	R	756	LYS	C-N-CA	6.53	129.57	120.29
7	O	494	GLU	N-CA-C	6.53	119.40	111.82
3	Z	962	LYS	CA-C-N	6.53	128.93	120.44
3	Z	962	LYS	C-N-CA	6.53	128.93	120.44
5	B	469	ARG	NE-CZ-NH1	-6.53	114.97	121.50
7	M	342	TYR	N-CA-C	-6.53	99.26	109.25
7	M	602	ASN	CA-C-N	6.53	129.03	120.28
7	M	602	ASN	C-N-CA	6.53	129.03	120.28
2	0	657	GLU	CA-C-O	-6.53	113.63	120.55
6	I	354	LEU	N-CA-C	-6.53	105.06	113.16
9	S	72	LEU	CA-C-N	6.53	134.01	121.54
9	S	72	LEU	C-N-CA	6.53	134.01	121.54
2	Y	905	GLU	CA-C-N	6.53	127.06	119.94
2	Y	905	GLU	C-N-CA	6.53	127.06	119.94
7	O	229	PHE	CA-CB-CG	-6.53	107.27	113.80
2	Y	1012	ARG	NE-CZ-NH1	-6.53	114.97	121.50
8	N	16	THR	CA-CB-OG1	6.53	119.39	109.60
7	O	571	ASN	CA-C-N	6.53	129.03	120.28
7	O	571	ASN	C-N-CA	6.53	129.03	120.28
8	P	749	ILE	CA-C-N	6.53	129.03	120.28
8	P	749	ILE	C-N-CA	6.53	129.03	120.28
8	P	1116	ASP	N-CA-C	-6.53	105.35	113.38
8	P	1195	GLN	CA-C-N	6.53	128.93	120.44
8	P	1195	GLN	C-N-CA	6.53	128.93	120.44
7	M	86	ILE	CA-C-N	6.53	129.40	120.46
7	M	86	ILE	C-N-CA	6.53	129.40	120.46
8	N	795	ILE	O-C-N	6.53	129.69	122.12
7	O	234	THR	CA-C-O	-6.53	112.01	118.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	0	1318	HIS	CE1-NE2-CD2	-6.52	102.48	109.00
3	1	508	PHE	CA-C-O	6.52	127.54	120.43
8	P	16	THR	CA-CB-OG1	6.52	119.39	109.60
2	Y	898	LYS	N-CA-C	6.52	118.05	111.07
7	M	477	ASP	CA-C-N	6.52	128.92	120.44
7	M	477	ASP	C-N-CA	6.52	128.92	120.44
8	N	1195	GLN	CA-C-N	6.52	128.92	120.44
8	N	1195	GLN	C-N-CA	6.52	128.92	120.44
3	1	393	VAL	N-CA-CB	6.52	118.44	111.00
2	Y	1050	ALA	N-CA-C	6.52	118.39	111.28
2	Y	1389	GLU	CA-C-N	6.52	129.34	120.54
2	Y	1389	GLU	C-N-CA	6.52	129.34	120.54
3	Z	981	GLN	N-CA-C	-6.52	104.26	111.82
4	A	717	LYS	N-CA-CB	6.52	119.70	110.12
6	F	399	ASN	OD1-CG-ND2	6.52	129.12	122.60
8	N	749	ILE	CA-C-N	6.52	129.01	120.28
8	N	749	ILE	C-N-CA	6.52	129.01	120.28
2	0	969	SER	CA-C-O	6.52	127.47	119.97
7	O	602	ASN	CA-C-N	6.52	129.02	120.28
7	O	602	ASN	C-N-CA	6.52	129.02	120.28
2	Y	1347	LEU	O-C-N	6.52	129.58	122.15
3	Z	1083	TYR	CA-C-N	6.52	128.91	120.44
3	Z	1083	TYR	C-N-CA	6.52	128.91	120.44
8	N	1324	SER	CA-C-N	6.52	127.17	119.94
8	N	1324	SER	C-N-CA	6.52	127.17	119.94
8	N	1379	GLU	CA-C-O	6.52	127.47	119.97
9	Q	605	GLU	N-CA-CB	6.52	119.81	110.16
9	Q	833	ILE	O-C-N	6.52	128.19	121.87
2	0	1347	LEU	O-C-N	6.52	129.58	122.15
3	1	820	ASP	CA-CB-CG	-6.52	106.08	112.60
9	S	605	GLU	N-CA-CB	6.52	119.81	110.16
9	Q	316	ALA	CA-C-N	6.52	131.76	120.68
9	Q	316	ALA	C-N-CA	6.52	131.76	120.68
3	Z	856	ASN	CB-CG-OD1	-6.51	107.77	120.80
7	M	272	PRO	CA-C-N	6.51	129.38	120.46
7	M	272	PRO	C-N-CA	6.51	129.38	120.46
7	M	414	ASN	N-CA-C	6.51	119.42	110.24
2	0	496	PHE	N-CA-CB	6.51	122.17	110.83
7	O	1523	PHE	CA-C-N	6.51	128.91	120.44
7	O	1523	PHE	C-N-CA	6.51	128.91	120.44
8	P	989	ASP	CA-CB-CG	6.51	119.11	112.60
7	O	1503	THR	N-CA-CB	6.51	119.31	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z	550	ASN	CA-CB-CG	6.51	119.11	112.60
7	M	1624	GLN	CB-CG-CD	6.51	123.67	112.60
9	R	302	VAL	CB-CA-C	-6.51	103.35	112.14
7	O	565	TYR	CA-C-N	6.51	128.90	120.44
7	O	565	TYR	C-N-CA	6.51	128.90	120.44
7	O	1435	LYS	CB-CA-C	-6.51	100.61	110.90
3	Z	282	ASN	CA-C-N	6.51	131.13	122.93
3	Z	282	ASN	C-N-CA	6.51	131.13	122.93
3	Z	1032	ILE	CA-C-O	6.51	124.76	119.29
3	Z	1360	SER	N-CA-CB	6.51	120.10	110.53
2	0	697	SER	N-CA-C	6.51	118.45	111.36
2	Y	1392	PRO	N-CA-CB	6.51	110.19	103.23
8	N	472	ASP	CA-C-O	6.51	127.15	119.28
9	Q	828	THR	CA-C-N	6.51	129.00	120.28
9	Q	828	THR	C-N-CA	6.51	129.00	120.28
2	0	102	ASP	CA-C-N	6.51	129.00	120.28
2	0	102	ASP	C-N-CA	6.51	129.00	120.28
9	S	833	ILE	O-C-N	6.51	128.18	121.87
9	T	735	THR	N-CA-C	6.51	118.03	111.07
3	Z	927	HIS	CG-CD2-NE2	6.50	113.70	107.20
8	N	745	HIS	CA-C-O	6.50	127.45	120.55
9	Q	360	ILE	CA-C-N	6.50	130.38	120.82
9	Q	360	ILE	C-N-CA	6.50	130.38	120.82
8	P	472	ASP	CA-C-O	6.50	127.15	119.28
9	S	241	ILE	N-CA-C	6.50	116.64	110.53
3	Z	264	ILE	CA-CB-CG1	6.50	121.46	110.40
6	C	354	LEU	N-CA-C	-6.50	105.10	113.16
7	M	234	THR	CA-C-O	-6.50	112.03	118.34
3	1	265	SER	CA-C-N	6.50	131.89	122.85
3	1	265	SER	C-N-CA	6.50	131.89	122.85
8	P	795	ILE	O-C-N	6.50	129.66	122.12
11	X	289	SER	CA-C-O	6.50	127.32	119.78
3	1	373	LEU	CA-C-O	6.50	127.52	120.43
7	O	1325	SER	N-CA-C	6.50	118.03	111.07
7	M	801	PRO	CA-C-O	-6.50	109.89	118.86
7	O	1216	PHE	O-C-N	6.50	130.14	122.34
9	S	465	ILE	CA-C-N	6.50	128.75	120.56
9	S	465	ILE	C-N-CA	6.50	128.75	120.56
4	D	688	HIS	CG-CD2-NE2	6.50	113.70	107.20
7	M	565	TYR	CA-C-N	6.50	128.89	120.44
7	M	565	TYR	C-N-CA	6.50	128.89	120.44
7	M	1569	TYR	CB-CG-CD1	6.50	130.55	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	Q	252	GLN	N-CA-C	6.50	118.36	111.28
2	0	686	THR	N-CA-C	6.50	118.36	111.28
3	1	1083	TYR	CA-C-N	6.50	128.89	120.44
3	1	1083	TYR	C-N-CA	6.50	128.89	120.44
6	F	336	PHE	O-C-N	-6.50	114.28	122.27
7	M	1325	SER	N-CA-C	6.50	118.02	111.07
2	0	1306	GLU	O-C-N	6.50	129.01	122.12
7	O	872	ILE	CA-C-N	6.50	129.28	120.44
7	O	872	ILE	C-N-CA	6.50	129.28	120.44
7	O	1569	TYR	CB-CG-CD1	6.50	130.55	120.80
9	Q	683	THR	N-CA-C	-6.49	103.47	112.30
2	0	1119	ALA	N-CA-C	6.49	118.44	111.36
4	G	717	LYS	N-CA-CB	6.49	119.67	110.12
5	H	531	ALA	CA-C-N	6.49	129.51	120.29
5	H	531	ALA	C-N-CA	6.49	129.51	120.29
8	P	299	ASN	CA-C-N	6.49	128.98	120.28
8	P	299	ASN	C-N-CA	6.49	128.98	120.28
8	P	1453	ILE	CA-C-N	6.49	128.96	120.26
8	P	1453	ILE	C-N-CA	6.49	128.96	120.26
9	Q	531	ASP	CA-CB-CG	6.49	119.09	112.60
9	Q	684	ASN	CA-C-O	-6.49	113.63	119.86
9	R	735	THR	N-CA-C	6.49	118.02	111.07
6	I	399	ASN	CA-C-O	6.49	127.43	120.10
8	P	620	ASN	CA-CB-CG	6.49	119.09	112.60
11	X	277	PRO	O-C-N	-6.49	116.03	123.23
8	N	810	MET	N-CA-C	6.49	119.18	111.33
9	Q	262	SER	O-C-N	6.49	131.12	122.43
8	N	1342	LEU	CA-C-N	-6.49	116.37	122.66
8	N	1342	LEU	C-N-CA	-6.49	116.37	122.66
9	R	286	THR	N-CA-CB	6.49	119.66	110.12
8	P	810	MET	N-CA-C	6.49	119.18	111.33
3	1	1076	ASP	CA-CB-CG	6.49	119.08	112.60
6	L	336	PHE	O-C-N	-6.49	114.29	122.27
8	P	1556	LEU	CA-C-N	6.49	128.87	120.44
8	P	1556	LEU	C-N-CA	6.49	128.87	120.44
9	R	230	GLY	O-C-N	-6.48	115.47	123.12
4	J	809	ASP	CB-CA-C	6.48	121.87	110.85
7	O	1624	GLN	CB-CG-CD	6.48	123.62	112.60
8	P	1207	TRP	CA-C-O	-6.48	113.68	120.55
9	S	372	LYS	N-CA-CB	6.48	119.65	110.12
2	Y	1318	HIS	CE1-NE2-CD2	-6.48	102.52	109.00
4	A	762	LEU	CA-C-N	6.48	130.16	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	762	LEU	C-N-CA	6.48	130.16	120.31
8	N	1286	THR	CA-C-O	-6.48	114.01	120.82
2	0	905	GLU	CA-C-N	6.48	127.01	119.94
2	0	905	GLU	C-N-CA	6.48	127.01	119.94
2	Y	1143	GLN	O-C-N	6.48	128.99	122.12
7	O	477	ASP	CA-C-N	6.48	128.87	120.44
7	O	477	ASP	C-N-CA	6.48	128.87	120.44
2	Y	525	ILE	O-C-N	-6.48	116.38	123.18
3	Z	393	VAL	N-CA-CB	6.48	118.39	111.00
3	Z	1076	ASP	CA-CB-CG	6.48	119.08	112.60
4	G	710	PHE	N-CA-CB	6.48	119.59	109.94
8	P	520	ILE	N-CA-C	-6.48	100.34	107.73
8	P	1324	SER	CA-C-N	6.48	127.13	119.94
8	P	1324	SER	C-N-CA	6.48	127.13	119.94
9	S	828	THR	CA-C-N	6.48	128.96	120.28
9	S	828	THR	C-N-CA	6.48	128.96	120.28
7	M	1253	ARG	CA-C-N	6.48	129.49	120.29
7	M	1253	ARG	C-N-CA	6.48	129.49	120.29
7	M	1523	PHE	CA-C-N	6.48	128.86	120.44
7	M	1523	PHE	C-N-CA	6.48	128.86	120.44
7	M	1532	ARG	CA-C-N	6.48	127.13	120.00
7	M	1532	ARG	C-N-CA	6.48	127.13	120.00
3	1	175	THR	N-CA-CB	6.48	120.74	110.57
3	1	282	ASN	CA-C-N	6.48	131.09	122.93
3	1	282	ASN	C-N-CA	6.48	131.09	122.93
8	P	263	SER	N-CA-C	6.48	118.34	111.28
8	P	568	ILE	CA-C-O	6.48	127.79	121.05
2	0	1143	GLN	O-C-N	6.48	128.98	122.12
3	1	550	ASN	CA-CB-CG	6.48	119.08	112.60
3	Z	820	ASP	CA-CB-CG	-6.47	106.13	112.60
7	M	494	GLU	N-CA-C	6.47	119.33	111.82
2	0	1389	GLU	CA-C-N	6.47	129.28	120.54
2	0	1389	GLU	C-N-CA	6.47	129.28	120.54
9	S	360	ILE	CA-C-N	6.47	130.34	120.82
9	S	360	ILE	C-N-CA	6.47	130.34	120.82
7	M	1216	PHE	O-C-N	6.47	130.11	122.34
9	R	712	GLU	CA-C-O	-6.47	114.02	120.82
2	0	1064	ILE	N-CA-C	-6.47	104.21	110.42
7	O	201	VAL	N-CA-C	-6.47	104.45	110.53
2	Y	697	SER	N-CA-C	6.47	118.41	111.36
8	N	441	PRO	N-CA-CB	6.47	110.20	103.15
7	O	247	LEU	O-C-N	-6.47	114.64	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	568	ILE	CA-C-O	6.47	127.78	121.05
3	1	264	ILE	CA-CB-CG1	6.47	121.40	110.40
8	N	1453	ILE	CA-C-N	6.47	128.93	120.26
8	N	1453	ILE	C-N-CA	6.47	128.93	120.26
2	0	1392	PRO	N-CA-CB	6.47	110.15	103.23
8	N	1556	LEU	CA-C-N	6.47	128.85	120.44
8	N	1556	LEU	C-N-CA	6.47	128.85	120.44
9	Q	241	ILE	N-CA-C	6.47	116.61	110.53
8	P	441	PRO	N-CA-CB	6.47	110.20	103.15
9	T	302	VAL	CB-CA-C	-6.47	103.41	112.14
2	Y	182	CYS	N-CA-C	-6.46	100.95	110.52
7	M	255	LEU	O-C-N	6.46	128.97	122.12
8	N	1078	ILE	N-CA-CB	-6.46	102.99	110.55
4	J	680	TYR	CA-C-N	6.46	128.94	120.28
4	J	680	TYR	C-N-CA	6.46	128.94	120.28
7	O	272	PRO	CA-C-N	6.46	129.32	120.46
7	O	272	PRO	C-N-CA	6.46	129.32	120.46
9	T	133	THR	CA-C-N	6.46	128.94	120.28
9	T	133	THR	C-N-CA	6.46	128.94	120.28
2	Y	1078	LYS	CA-C-N	6.46	129.59	120.28
2	Y	1078	LYS	C-N-CA	6.46	129.59	120.28
4	D	809	ASP	CB-CA-C	6.46	121.84	110.85
6	F	398	VAL	N-CA-C	6.46	116.62	110.42
3	1	1183	ILE	O-C-N	-6.46	116.13	122.92
5	B	404	ARG	CA-C-N	6.46	128.84	120.44
5	B	404	ARG	C-N-CA	6.46	128.84	120.44
5	B	531	ALA	CA-C-N	6.46	129.47	120.29
5	B	531	ALA	C-N-CA	6.46	129.47	120.29
3	1	981	GLN	N-CA-C	-6.46	104.33	111.82
7	O	38	ASN	N-CA-C	-6.46	102.78	110.41
4	A	752	ASP	N-CA-CB	6.46	121.41	110.49
7	M	1435	LYS	CB-CA-C	-6.46	100.69	110.90
7	O	1532	ARG	CA-C-N	6.46	127.11	120.00
7	O	1532	ARG	C-N-CA	6.46	127.11	120.00
9	S	531	ASP	CA-CB-CG	6.46	119.06	112.60
6	F	350	PHE	CA-CB-CG	6.46	120.26	113.80
7	M	618	SER	N-CA-C	6.46	118.32	111.28
11	V	277	PRO	O-C-N	-6.46	116.06	123.23
8	P	235	ASP	N-CA-C	-6.46	99.94	109.11
8	P	1286	THR	CA-C-O	-6.46	114.04	120.82
2	Y	258	ASN	CA-CB-CG	6.46	119.06	112.60
2	0	525	ILE	O-C-N	-6.46	116.40	123.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	J	644	TRP	CA-C-N	6.46	128.93	120.28
4	J	644	TRP	C-N-CA	6.46	128.93	120.28
9	T	220	PHE	CA-CB-CG	6.46	120.25	113.80
2	Y	969	SER	CA-C-O	6.45	127.39	119.97
2	Y	1064	ILE	N-CA-C	-6.45	104.22	110.42
3	Z	175	THR	N-CA-CB	6.45	120.70	110.57
8	N	941	SER	O-C-N	6.45	126.50	121.47
7	O	801	PRO	CA-C-O	-6.45	109.96	118.86
2	Y	479	GLN	N-CA-C	-6.45	104.17	111.07
3	Z	978	ASN	CA-C-N	6.45	129.57	120.28
3	Z	978	ASN	C-N-CA	6.45	129.57	120.28
8	N	520	ILE	N-CA-C	-6.45	100.38	107.73
2	0	182	CYS	N-CA-C	-6.45	100.97	110.52
4	D	644	TRP	CA-C-N	6.45	128.92	120.28
4	D	644	TRP	C-N-CA	6.45	128.92	120.28
7	M	247	LEU	O-C-N	-6.45	114.66	121.30
11	V	289	SER	CA-C-O	6.45	127.26	119.78
4	G	762	LEU	CA-C-N	6.45	130.11	120.31
4	G	762	LEU	C-N-CA	6.45	130.11	120.31
9	T	68	LYS	N-CA-CB	6.45	119.42	110.07
6	I	325	TYR	CB-CG-CD2	-6.45	111.13	120.80
2	Y	686	THR	N-CA-C	6.45	118.31	111.28
3	Z	373	LEU	CA-C-O	6.45	127.46	120.43
3	1	1352	GLN	N-CA-C	-6.45	104.11	112.23
7	O	871	ILE	N-CA-C	6.45	117.19	110.62
9	T	286	THR	N-CA-CB	6.45	119.59	110.12
7	M	1249	ILE	N-CA-C	6.44	117.19	110.62
8	P	498	GLU	CA-C-N	6.44	129.97	120.95
8	P	498	GLU	C-N-CA	6.44	129.97	120.95
8	N	660	PHE	CA-CB-CG	-6.44	107.36	113.80
9	R	68	LYS	N-CA-CB	6.44	119.41	110.07
3	1	978	ASN	CA-C-N	6.44	129.56	120.28
3	1	978	ASN	C-N-CA	6.44	129.56	120.28
7	O	86	ILE	CA-C-N	6.44	129.29	120.46
7	O	86	ILE	C-N-CA	6.44	129.29	120.46
7	O	247	LEU	CA-C-N	6.44	126.47	119.90
7	O	247	LEU	C-N-CA	6.44	126.47	119.90
7	O	499	PHE	CA-CB-CG	-6.44	107.36	113.80
2	0	479	GLN	N-CA-C	-6.44	104.18	111.07
9	S	460	GLU	CA-C-N	6.44	128.81	120.44
9	S	460	GLU	C-N-CA	6.44	128.81	120.44
2	Y	496	PHE	N-CA-CB	6.44	122.03	110.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	1411	HIS	ND1-CE1-NE2	6.44	114.84	108.40
8	N	1228	ASP	N-CA-C	6.44	119.29	111.82
9	T	520	SER	N-CA-C	-6.44	97.08	110.80
4	A	710	PHE	N-CA-CB	6.44	119.53	109.94
7	M	201	VAL	N-CA-C	-6.44	104.48	110.53
7	M	247	LEU	CA-C-N	6.44	126.47	119.90
7	M	247	LEU	C-N-CA	6.44	126.47	119.90
7	M	480	ARG	CA-C-N	6.44	129.20	120.44
7	M	480	ARG	C-N-CA	6.44	129.20	120.44
8	N	424	LYS	N-CA-C	-6.44	104.35	111.82
4	G	648	LEU	CA-C-N	6.44	129.43	120.29
4	G	648	LEU	C-N-CA	6.44	129.43	120.29
6	L	312	VAL	CA-C-N	6.44	128.91	120.28
6	L	312	VAL	C-N-CA	6.44	128.91	120.28
2	Y	626	ASN	CA-CB-CG	6.44	119.04	112.60
3	Z	661	ALA	CA-C-N	6.44	128.90	120.28
3	Z	661	ALA	C-N-CA	6.44	128.90	120.28
9	S	262	SER	O-C-N	6.44	131.05	122.43
8	N	263	SER	N-CA-C	6.43	118.29	111.28
8	N	1132	GLU	CA-C-O	-6.43	113.60	120.42
9	Q	412	TYR	N-CA-CB	6.43	119.58	110.12
9	R	133	THR	CA-C-N	6.43	128.90	120.28
9	R	133	THR	C-N-CA	6.43	128.90	120.28
2	0	626	ASN	CA-CB-CG	6.43	119.03	112.60
5	H	404	ARG	CA-C-N	6.43	128.81	120.44
5	H	404	ARG	C-N-CA	6.43	128.81	120.44
7	O	480	ARG	CA-C-N	6.43	129.19	120.44
7	O	480	ARG	C-N-CA	6.43	129.19	120.44
7	O	1249	ILE	N-CA-C	6.43	117.18	110.62
8	P	47	ASN	CA-C-N	6.43	128.90	120.28
8	P	47	ASN	C-N-CA	6.43	128.90	120.28
8	N	235	ASP	N-CA-C	-6.43	99.97	109.11
9	Q	460	GLU	CA-C-N	6.43	128.80	120.44
9	Q	460	GLU	C-N-CA	6.43	128.80	120.44
7	O	255	LEU	O-C-N	6.43	128.94	122.12
8	P	1342	LEU	CA-C-N	-6.43	116.42	122.66
8	P	1342	LEU	C-N-CA	-6.43	116.42	122.66
9	T	631	ALA	N-CA-C	6.43	118.29	111.28
3	Z	1177	VAL	N-CA-C	6.43	117.18	110.62
4	J	688	HIS	CG-CD2-NE2	6.43	113.63	107.20
7	O	442	ILE	N-CA-CB	6.43	118.80	110.57
8	P	1019	THR	O-C-N	6.43	128.69	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	1164	ASP	CA-C-O	-6.43	113.73	120.55
3	Z	259	ASN	CA-C-N	6.43	130.08	120.69
3	Z	259	ASN	C-N-CA	6.43	130.08	120.69
9	R	723	ILE	CA-CB-CG1	-6.43	99.47	110.40
3	1	1177	VAL	N-CA-C	6.43	117.18	110.62
9	T	532	ILE	CA-C-O	6.43	127.17	120.36
9	Q	157	ASN	O-C-N	6.43	128.69	122.07
9	Q	372	LYS	N-CA-CB	6.43	119.57	110.12
5	K	355	PHE	CA-CB-CG	6.43	120.23	113.80
5	K	400	LYS	N-CA-CB	6.43	119.57	110.12
8	P	75	ILE	N-CA-C	6.43	117.18	110.62
9	T	93	ASN	N-CA-C	6.43	118.28	111.28
2	Y	1306	GLU	O-C-N	6.42	128.93	122.12
8	P	667	ASN	N-CA-C	-6.42	105.57	113.41
2	Y	102	ASP	CA-C-N	6.42	128.89	120.28
2	Y	102	ASP	C-N-CA	6.42	128.89	120.28
8	N	1431	ILE	N-CA-CB	6.42	120.32	112.10
9	S	684	ASN	CA-C-O	-6.42	113.69	119.86
5	B	390	HIS	CE1-NE2-CD2	-6.42	102.58	109.00
7	M	567	LYS	N-CA-C	6.42	118.36	111.36
9	R	93	ASN	N-CA-C	6.42	118.28	111.28
3	1	927	HIS	CG-CD2-NE2	6.42	113.62	107.20
3	1	1350	TRP	CB-CG-CD2	-6.42	117.81	126.80
8	P	1078	ILE	N-CA-CB	-6.42	103.04	110.55
9	Q	682	GLU	CB-CA-C	-6.42	100.88	109.16
8	P	67	ASP	CB-CA-C	-6.42	98.94	109.53
9	S	412	TYR	N-CA-CB	6.42	119.55	110.12
9	T	623	ILE	N-CA-C	-6.42	106.04	111.56
5	E	400	LYS	N-CA-CB	6.42	119.55	110.12
7	M	499	PHE	CA-CB-CG	-6.42	107.38	113.80
9	R	731	GLN	CA-C-N	6.42	129.17	120.38
9	R	731	GLN	C-N-CA	6.42	129.17	120.38
9	T	621	HIS	CA-CB-CG	6.42	120.22	113.80
9	T	723	ILE	CA-CB-CG1	-6.42	99.49	110.40
4	A	648	LEU	CA-C-N	6.42	129.40	120.29
4	A	648	LEU	C-N-CA	6.42	129.40	120.29
7	M	824	ALA	CA-C-N	6.42	125.46	120.33
7	M	824	ALA	C-N-CA	6.42	125.46	120.33
9	Q	662	SER	CA-C-N	6.42	129.40	120.29
9	Q	662	SER	C-N-CA	6.42	129.40	120.29
7	O	1619	ASN	CA-C-N	6.42	128.88	120.28
7	O	1619	ASN	C-N-CA	6.42	128.88	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	R	631	ALA	N-CA-C	6.41	118.27	111.28
3	1	661	ALA	CA-C-N	6.41	128.87	120.28
3	1	661	ALA	C-N-CA	6.41	128.87	120.28
9	S	238	PHE	N-CA-C	6.41	119.08	111.71
8	N	667	ASN	N-CA-C	-6.41	105.59	113.41
7	O	1163	LEU	CA-C-O	-6.41	114.09	120.82
9	S	398	ILE	N-CA-C	-6.41	105.58	111.67
6	C	325	TYR	CB-CG-CD2	-6.41	111.19	120.80
9	R	34	SER	N-CA-C	-6.41	103.99	110.97
8	N	47	ASN	CA-C-N	6.40	128.86	120.28
8	N	47	ASN	C-N-CA	6.40	128.86	120.28
9	S	683	THR	N-CA-C	-6.40	103.59	112.30
8	N	415	PHE	O-C-N	6.40	128.66	122.07
7	O	567	LYS	N-CA-C	6.40	118.34	111.36
9	S	157	ASN	O-C-N	6.40	128.67	122.07
9	S	813	CYS	N-CA-C	-6.40	104.30	111.28
2	Y	841	TYR	CA-C-N	6.40	129.38	120.29
2	Y	841	TYR	C-N-CA	6.40	129.38	120.29
7	M	1619	ASN	CA-C-N	6.40	128.86	120.28
7	M	1619	ASN	C-N-CA	6.40	128.86	120.28
2	0	1078	LYS	CA-C-N	6.40	129.50	120.28
2	0	1078	LYS	C-N-CA	6.40	129.50	120.28
7	O	1022	LEU	CA-C-N	6.40	128.86	120.28
7	O	1022	LEU	C-N-CA	6.40	128.86	120.28
5	B	398	ILE	O-C-N	6.40	129.03	121.80
8	N	912	TRP	CB-CG-CD2	-6.40	117.84	126.80
7	M	442	ILE	N-CA-CB	6.40	118.76	110.57
9	Q	506	LEU	CA-C-N	6.40	128.85	120.28
9	Q	506	LEU	C-N-CA	6.40	128.85	120.28
9	R	799	LYS	CA-CB-CG	6.40	126.89	114.10
8	P	950	ARG	CA-C-N	6.40	128.85	120.28
8	P	950	ARG	C-N-CA	6.40	128.85	120.28
8	N	1164	ASP	CA-C-O	-6.40	113.77	120.55
7	M	420	THR	N-CA-C	-6.39	98.66	108.76
7	M	871	ILE	N-CA-C	6.39	117.14	110.62
8	N	1207	TRP	CA-C-O	-6.39	113.77	120.55
9	Q	398	ILE	N-CA-C	-6.39	105.59	111.67
9	R	520	SER	N-CA-C	-6.39	97.18	110.80
8	P	424	LYS	N-CA-C	-6.39	104.40	111.82
4	G	752	ASP	N-CA-CB	6.39	121.29	110.49
9	S	682	GLU	CB-CA-C	-6.39	100.91	109.16
7	M	38	ASN	N-CA-C	-6.39	102.87	110.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	525	CYS	CA-C-N	6.39	128.84	120.28
7	M	525	CYS	C-N-CA	6.39	128.84	120.28
9	T	799	LYS	CA-CB-CG	6.39	126.88	114.10
3	Z	1056	HIS	ND1-CE1-NE2	6.39	114.79	108.40
3	Z	1352	GLN	N-CA-C	-6.39	104.18	112.23
8	P	1296	ILE	CB-CA-C	6.39	120.15	111.97
8	P	1475	SER	CA-C-O	6.39	127.53	120.82
9	S	506	LEU	CA-C-N	6.39	128.84	120.28
9	S	506	LEU	C-N-CA	6.39	128.84	120.28
9	T	86	PHE	O-C-N	6.39	128.89	122.12
8	P	1431	ILE	N-CA-CB	6.39	120.28	112.10
3	Z	1244	SER	CA-C-N	6.39	130.02	120.31
3	Z	1244	SER	C-N-CA	6.39	130.02	120.31
7	M	125	HIS	CE1-NE2-CD2	-6.39	102.61	109.00
8	N	770	HIS	CG-CD2-NE2	6.39	113.59	107.20
2	0	837	ASP	CA-C-O	6.39	127.32	120.55
9	S	662	SER	CA-C-N	6.39	129.36	120.29
9	S	662	SER	C-N-CA	6.39	129.36	120.29
3	Z	1230	ASP	N-CA-CB	6.38	121.28	110.49
4	D	680	TYR	CA-C-N	6.38	128.83	120.28
4	D	680	TYR	C-N-CA	6.38	128.83	120.28
6	F	312	VAL	CA-C-N	6.38	128.84	120.28
6	F	312	VAL	C-N-CA	6.38	128.84	120.28
7	M	1022	LEU	CA-C-N	6.38	128.84	120.28
7	M	1022	LEU	C-N-CA	6.38	128.84	120.28
9	Q	609	PRO	CB-CA-C	-6.38	102.25	112.21
9	R	137	ASP	N-CA-CB	6.38	119.51	110.12
9	R	532	ILE	CA-C-O	6.38	127.13	120.36
3	1	1244	SER	CA-C-N	6.38	130.01	120.31
3	1	1244	SER	C-N-CA	6.38	130.01	120.31
3	Z	1187	TYR	CB-CG-CD1	6.38	130.38	120.80
4	G	793	LEU	CA-C-O	-6.38	113.78	120.55
8	P	1132	GLU	CA-C-O	-6.38	113.65	120.42
8	N	969	ILE	CA-C-N	6.38	128.83	120.28
8	N	969	ILE	C-N-CA	6.38	128.83	120.28
8	P	745	HIS	CA-C-O	6.38	127.52	120.82
9	Q	561	THR	O-C-N	6.38	130.49	123.22
5	H	398	ILE	O-C-N	6.38	129.01	121.80
2	Y	1051	VAL	O-C-N	-6.38	115.69	121.87
8	N	1019	THR	O-C-N	6.38	128.64	122.07
7	O	50	GLN	O-C-N	6.38	128.98	122.09
9	T	712	GLU	CA-C-O	-6.38	114.12	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	731	PHE	CA-CB-CG	6.38	120.17	113.80
8	N	742	LEU	O-C-N	-6.38	115.36	122.12
6	L	350	PHE	CA-CB-CG	6.38	120.17	113.80
2	Y	777	ILE	CA-C-N	6.37	128.82	120.28
2	Y	777	ILE	C-N-CA	6.37	128.82	120.28
5	B	515	ASN	CA-C-N	6.37	129.11	120.44
5	B	515	ASN	C-N-CA	6.37	129.11	120.44
8	N	1296	ILE	CB-CA-C	6.37	120.13	111.97
7	O	618	SER	N-CA-C	6.37	118.23	111.28
8	P	415	PHE	O-C-N	6.37	128.63	122.07
4	D	665	TRP	CB-CG-CD1	-6.37	117.34	126.90
7	M	128	THR	CA-C-N	6.37	128.82	120.28
7	M	128	THR	C-N-CA	6.37	128.82	120.28
7	M	1163	LEU	CA-C-O	-6.37	114.13	120.82
8	N	498	GLU	CA-C-N	6.37	129.87	120.95
8	N	498	GLU	C-N-CA	6.37	129.87	120.95
5	K	317	ASN	N-CA-C	6.37	124.37	110.80
7	O	824	ALA	CA-C-N	6.37	125.43	120.33
7	O	824	ALA	C-N-CA	6.37	125.43	120.33
9	S	561	THR	O-C-N	6.37	130.48	123.22
8	P	660	PHE	CA-CB-CG	-6.37	107.43	113.80
9	R	220	PHE	CA-CB-CG	6.37	120.17	113.80
8	P	735	LYS	CA-C-N	6.37	128.58	120.56
8	P	735	LYS	C-N-CA	6.37	128.58	120.56
8	P	1103	GLU	N-CA-C	-6.37	105.55	113.38
9	Q	605	GLU	CA-C-N	6.37	129.45	120.28
9	Q	605	GLU	C-N-CA	6.37	129.45	120.28
8	P	941	SER	O-C-N	6.37	126.44	121.47
10	U	340	ILE	CA-CB-CG1	6.37	121.22	110.40
7	O	1104	ASN	N-CA-CB	6.37	121.71	111.65
7	O	1411	HIS	ND1-CE1-NE2	6.37	114.77	108.40
8	P	912	TRP	CB-CG-CD2	-6.37	117.89	126.80
9	T	137	ASP	N-CA-CB	6.37	119.48	110.12
9	T	731	GLN	CA-C-N	6.37	129.10	120.38
9	T	731	GLN	C-N-CA	6.37	129.10	120.38
7	M	1104	ASN	N-CA-CB	6.36	121.71	111.65
3	1	1056	HIS	ND1-CE1-NE2	6.36	114.76	108.40
3	1	1230	ASP	N-CA-CB	6.36	121.24	110.49
2	Y	118	THR	CA-CB-OG1	6.36	119.14	109.60
2	Y	1325	PHE	CA-C-N	6.36	129.09	120.44
2	Y	1325	PHE	C-N-CA	6.36	129.09	120.44
9	S	605	GLU	CA-C-N	6.36	129.44	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	605	GLU	C-N-CA	6.36	129.44	120.28
4	A	793	LEU	CA-C-O	-6.36	113.81	120.55
8	N	1475	SER	CA-C-O	6.36	127.50	120.82
2	0	118	THR	CA-CB-OG1	6.36	119.14	109.60
2	0	777	ILE	CA-C-N	6.36	128.80	120.28
2	0	777	ILE	C-N-CA	6.36	128.80	120.28
2	0	841	TYR	CA-C-N	6.36	129.32	120.29
2	0	841	TYR	C-N-CA	6.36	129.32	120.29
3	1	1187	TYR	CB-CG-CD1	6.36	130.34	120.80
7	O	143	ASN	CA-C-N	6.36	129.17	120.46
7	O	143	ASN	C-N-CA	6.36	129.17	120.46
7	O	525	CYS	CA-C-N	6.36	128.80	120.28
7	O	525	CYS	C-N-CA	6.36	128.80	120.28
7	M	1209	PRO	O-C-N	-6.36	115.98	123.10
3	1	122	ASP	CA-CB-CG	6.36	118.96	112.60
8	P	969	ILE	CA-C-N	6.36	128.80	120.28
8	P	969	ILE	C-N-CA	6.36	128.80	120.28
9	Q	238	PHE	N-CA-C	6.36	119.02	111.71
2	0	258	ASN	CA-CB-CG	6.36	118.96	112.60
3	1	577	PHE	N-CA-CB	6.36	119.43	109.83
9	S	707	HIS	CE1-NE2-CD2	-6.36	102.64	109.00
3	Z	230	ILE	CA-C-O	-6.35	113.66	120.59
8	N	950	ARG	CA-C-N	6.35	128.79	120.28
8	N	950	ARG	C-N-CA	6.35	128.79	120.28
8	N	1103	GLU	N-CA-C	-6.35	105.56	113.38
2	Y	837	ASP	CA-C-O	6.35	127.28	120.55
6	C	399	ASN	CA-C-O	6.35	127.28	120.10
9	Q	436	LEU	N-CA-CB	6.35	119.22	110.01
2	0	1325	PHE	CA-C-N	6.35	129.08	120.44
2	0	1325	PHE	C-N-CA	6.35	129.08	120.44
4	J	665	TRP	CB-CG-CD1	-6.35	117.37	126.90
7	O	420	THR	N-CA-C	-6.35	98.72	108.76
8	P	742	LEU	O-C-N	-6.35	115.39	122.12
8	P	1228	ASP	N-CA-C	6.35	119.19	111.82
9	S	609	PRO	CB-CA-C	-6.35	102.30	112.21
7	M	714	HIS	CA-C-N	6.35	129.96	120.31
7	M	714	HIS	C-N-CA	6.35	129.96	120.31
10	W	340	ILE	CA-CB-CG1	6.35	121.19	110.40
5	B	323	LEU	CB-CA-C	6.35	122.69	109.68
2	0	1333	HIS	CA-C-O	-6.35	113.82	120.55
7	M	1516	THR	O-C-N	6.35	128.61	122.07
6	L	398	VAL	N-CA-C	6.35	116.51	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y	142	LEU	N-CA-C	-6.34	104.09	113.61
2	0	142	LEU	N-CA-C	-6.34	104.09	113.61
3	1	536	HIS	CA-CB-CG	-6.34	107.46	113.80
7	O	826	PRO	CA-C-N	6.34	128.55	120.56
7	O	826	PRO	C-N-CA	6.34	128.55	120.56
7	O	850	GLN	CG-CD-NE2	6.34	125.92	116.40
5	K	510	VAL	CA-C-N	6.34	128.69	120.44
5	K	510	VAL	C-N-CA	6.34	128.69	120.44
8	P	91	GLN	CA-C-N	6.34	133.66	121.54
8	P	91	GLN	C-N-CA	6.34	133.66	121.54
3	Z	122	ASP	CA-CB-CG	6.34	118.94	112.60
3	Z	228	PHE	CA-CB-CG	-6.34	107.46	113.80
2	Y	197	ASN	O-C-N	-6.34	115.50	123.17
3	Z	536	HIS	CA-CB-CG	-6.34	107.46	113.80
8	N	897	LYS	CA-C-O	-6.34	114.12	120.90
9	R	623	ILE	N-CA-C	-6.34	106.11	111.56
3	1	230	ILE	CA-C-O	-6.34	113.68	120.59
9	T	468	SER	N-CA-C	6.34	119.17	111.82
3	1	228	PHE	CA-CB-CG	-6.34	107.46	113.80
7	O	140	LEU	CA-C-N	6.34	128.55	120.56
7	O	140	LEU	C-N-CA	6.34	128.55	120.56
7	O	714	HIS	CA-C-N	6.34	129.94	120.31
7	O	714	HIS	C-N-CA	6.34	129.94	120.31
2	Y	215	ALA	CA-C-N	6.34	131.20	122.77
2	Y	215	ALA	C-N-CA	6.34	131.20	122.77
7	O	1052	LEU	N-CA-CB	6.34	119.43	110.12
9	Q	269	ASN	CA-CB-CG	6.33	118.94	112.60
7	M	639	LEU	N-CA-CB	6.33	119.43	110.12
8	N	367	GLU	N-CA-C	6.33	117.85	111.07
9	Q	473	ARG	N-CA-C	-6.33	105.57	113.55
9	Q	720	ILE	CA-C-O	6.33	127.54	120.95
2	0	890	SER	CA-C-O	6.33	127.26	120.55
7	M	50	GLN	O-C-N	6.33	128.93	122.09
9	Q	787	HIS	ND1-CE1-NE2	6.33	114.73	108.40
9	R	621	HIS	CA-CB-CG	6.33	120.13	113.80
8	P	455	PHE	CA-C-O	-6.33	114.17	120.82
8	P	869	LYS	CA-C-O	-6.33	114.68	120.50
3	Z	564	THR	CA-C-O	6.33	125.77	118.55
3	Z	1350	TRP	CB-CG-CD2	-6.33	117.94	126.80
9	S	787	HIS	ND1-CE1-NE2	6.33	114.73	108.40
6	C	270	PRO	N-CA-CB	6.33	109.96	103.00
7	M	143	ASN	CA-C-N	6.33	129.13	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	143	ASN	C-N-CA	6.33	129.13	120.46
7	M	1026	PHE	N-CA-C	-6.33	100.26	110.32
5	H	515	ASN	CA-C-N	6.33	129.05	120.44
5	H	515	ASN	C-N-CA	6.33	129.05	120.44
9	S	505	HIS	CE1-NE2-CD2	-6.33	102.67	109.00
9	T	292	LYS	N-CA-C	-6.33	104.48	111.82
2	Y	890	SER	CA-C-O	6.33	127.26	120.55
7	O	146	SER	CA-C-N	6.33	128.76	120.28
7	O	146	SER	C-N-CA	6.33	128.76	120.28
8	P	1304	LYS	N-CA-C	-6.33	105.43	113.02
11	X	376	ILE	N-CA-C	-6.33	103.71	112.50
5	H	390	HIS	CE1-NE2-CD2	-6.33	102.67	109.00
3	Z	998	TYR	CA-C-N	6.32	128.75	120.28
3	Z	998	TYR	C-N-CA	6.32	128.75	120.28
9	Q	813	CYS	N-CA-C	-6.32	104.39	111.28
11	V	376	ILE	N-CA-C	-6.32	103.71	112.50
3	1	1030	ILE	CA-C-O	-6.32	112.88	120.78
7	M	784	ILE	N-CA-C	6.32	116.49	110.42
8	N	1304	LYS	N-CA-C	-6.32	105.44	113.02
2	0	215	ALA	CA-C-N	6.32	131.18	122.77
2	0	215	ALA	C-N-CA	6.32	131.18	122.77
7	O	125	HIS	CE1-NE2-CD2	-6.32	102.68	109.00
7	O	192	ILE	N-CA-CB	6.32	120.06	110.58
9	S	473	ARG	N-CA-C	-6.32	105.59	113.55
7	O	128	THR	CA-C-N	6.32	128.75	120.28
7	O	128	THR	C-N-CA	6.32	128.75	120.28
2	Y	1168	GLN	OE1-CD-NE2	-6.32	116.28	122.60
3	Z	1030	ILE	CA-C-O	-6.32	112.88	120.78
7	M	370	THR	CA-C-N	6.32	130.29	120.75
7	M	370	THR	C-N-CA	6.32	130.29	120.75
7	M	672	TRP	CA-C-N	6.32	128.75	120.28
7	M	672	TRP	C-N-CA	6.32	128.75	120.28
2	0	1022	ASP	CB-CA-C	-6.32	100.11	110.85
2	0	1168	GLN	OE1-CD-NE2	-6.32	116.28	122.60
3	1	1032	ILE	CA-C-O	6.32	124.59	119.29
7	O	784	ILE	N-CA-C	6.32	116.48	110.42
7	O	1026	PHE	N-CA-C	-6.32	100.28	110.32
2	Y	607	GLN	N-CA-C	-6.31	99.08	108.99
2	0	607	GLN	N-CA-C	-6.31	99.08	108.99
5	E	510	VAL	CA-C-N	6.31	128.65	120.44
5	E	510	VAL	C-N-CA	6.31	128.65	120.44
7	M	481	PHE	CA-CB-CG	-6.31	107.49	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	735	LYS	CA-C-N	6.31	128.51	120.56
8	N	735	LYS	C-N-CA	6.31	128.51	120.56
9	R	224	ASN	CA-C-N	6.31	128.74	120.28
9	R	224	ASN	C-N-CA	6.31	128.74	120.28
9	R	707	HIS	ND1-CE1-NE2	6.31	114.71	108.40
7	O	672	TRP	CA-C-N	6.31	128.74	120.28
7	O	672	TRP	C-N-CA	6.31	128.74	120.28
8	P	180	LYS	CA-CB-CG	6.31	126.73	114.10
4	J	792	GLN	OE1-CD-NE2	6.31	128.91	122.60
8	N	102	PHE	CA-C-N	6.31	129.37	120.28
8	N	102	PHE	C-N-CA	6.31	129.37	120.28
8	P	1011	GLU	CA-C-N	6.31	129.10	120.46
8	P	1011	GLU	C-N-CA	6.31	129.10	120.46
9	S	795	GLN	N-CA-C	-6.31	105.45	113.02
3	Z	577	PHE	N-CA-CB	6.31	119.35	109.83
3	1	998	TYR	CA-C-N	6.31	128.73	120.28
3	1	998	TYR	C-N-CA	6.31	128.73	120.28
7	M	146	SER	CA-C-N	6.30	128.73	120.28
7	M	146	SER	C-N-CA	6.30	128.73	120.28
7	M	826	PRO	CA-C-N	6.30	128.50	120.56
7	M	826	PRO	C-N-CA	6.30	128.50	120.56
2	0	985	ALA	CA-C-N	6.30	129.24	120.29
2	0	985	ALA	C-N-CA	6.30	129.24	120.29
6	L	380	TYR	N-CA-CB	6.30	119.21	110.07
8	N	180	LYS	CA-CB-CG	6.30	126.70	114.10
8	N	1083	ALA	N-CA-CB	6.30	119.15	110.01
9	S	720	ILE	CA-C-O	6.30	127.50	120.95
3	Z	768	ILE	N-CA-C	-6.30	104.61	110.53
2	0	1187	MET	CA-C-O	6.30	127.10	120.42
8	P	102	PHE	CA-C-N	6.30	129.35	120.28
8	P	102	PHE	C-N-CA	6.30	129.35	120.28
9	S	436	LEU	N-CA-CB	6.30	119.15	110.01
10	W	258	TYR	CA-C-N	6.30	127.72	119.84
10	W	258	TYR	C-N-CA	6.30	127.72	119.84
8	N	240	GLN	CA-C-O	6.30	127.19	120.70
7	O	1241	LYS	CA-C-N	6.30	128.72	120.28
7	O	1241	LYS	C-N-CA	6.30	128.72	120.28
2	Y	985	ALA	CA-C-N	6.30	129.23	120.29
2	Y	985	ALA	C-N-CA	6.30	129.23	120.29
5	E	355	PHE	CA-CB-CG	6.30	120.10	113.80
8	P	897	LYS	CA-C-O	-6.30	114.16	120.90
3	Z	805	ILE	CB-CA-C	-6.30	103.91	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	292	HIS	CB-CG-CD2	-6.30	123.02	131.20
8	N	1151	ASN	CA-CB-CG	-6.30	106.30	112.60
9	Q	641	ILE	CA-C-N	6.30	128.72	120.28
9	Q	641	ILE	C-N-CA	6.30	128.72	120.28
9	Q	707	HIS	CE1-NE2-CD2	-6.30	102.70	109.00
9	R	292	LYS	N-CA-C	-6.30	104.52	111.82
2	Y	1022	ASP	CB-CA-C	-6.29	100.15	110.85
2	0	110	HIS	CG-CD2-NE2	6.29	113.50	107.20
3	1	564	THR	CA-C-O	6.29	125.73	118.55
3	Z	238	ASN	CA-C-N	6.29	129.81	120.87
3	Z	238	ASN	C-N-CA	6.29	129.81	120.87
4	D	688	HIS	CE1-NE2-CD2	-6.29	102.71	109.00
4	D	792	GLN	OE1-CD-NE2	6.29	128.89	122.60
7	M	1461	ASP	CA-C-O	6.29	127.18	120.70
7	O	370	THR	CA-C-N	6.29	130.25	120.75
7	O	370	THR	C-N-CA	6.29	130.25	120.75
8	P	1193	ASN	OD1-CG-ND2	6.29	128.89	122.60
2	Y	1386	PRO	CA-C-N	6.29	129.08	120.46
2	Y	1386	PRO	C-N-CA	6.29	129.08	120.46
9	R	142	HIS	CA-C-N	6.29	128.62	120.44
9	R	142	HIS	C-N-CA	6.29	128.62	120.44
2	0	197	ASN	O-C-N	-6.29	115.56	123.17
2	0	483	HIS	CA-CB-CG	-6.29	107.51	113.80
8	P	767	ILE	CB-CA-C	-6.29	103.92	111.97
8	P	1151	ASN	CA-CB-CG	-6.29	106.31	112.60
3	Z	114	PRO	CA-C-N	6.29	133.55	121.54
3	Z	114	PRO	C-N-CA	6.29	133.55	121.54
9	T	707	HIS	ND1-CE1-NE2	6.29	114.69	108.40
7	M	1241	LYS	CA-C-N	6.29	128.71	120.28
7	M	1241	LYS	C-N-CA	6.29	128.71	120.28
7	O	1461	ASP	CA-C-O	6.29	127.18	120.70
7	M	1041	PHE	CA-C-N	6.29	129.07	120.46
7	M	1041	PHE	C-N-CA	6.29	129.07	120.46
9	R	808	ASN	CA-CB-CG	6.29	118.89	112.60
2	0	1038	ILE	CA-C-N	6.29	128.71	120.60
2	0	1038	ILE	C-N-CA	6.29	128.71	120.60
8	N	91	GLN	CA-C-N	6.29	133.54	121.54
8	N	91	GLN	C-N-CA	6.29	133.54	121.54
7	O	56	ILE	CA-CB-CG1	6.29	121.09	110.40
9	Q	505	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
7	O	523	ARG	N-CA-CB	6.28	119.36	110.12
8	P	813	ILE	N-CA-CB	6.28	119.75	112.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	770	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
2	0	1169	ASN	CA-CB-CG	-6.28	106.32	112.60
9	S	505	HIS	CA-C-N	6.28	128.70	120.28
9	S	505	HIS	C-N-CA	6.28	128.70	120.28
2	Y	136	SER	N-CA-C	-6.28	99.18	108.79
7	M	494	GLU	CB-CA-C	-6.28	98.61	110.67
2	0	1051	VAL	O-C-N	-6.28	115.78	121.87
5	K	517	GLN	OE1-CD-NE2	-6.28	116.32	122.60
7	O	907	HIS	CB-CG-CD2	-6.28	123.03	131.20
8	P	115	SER	O-C-N	6.28	128.78	122.12
8	P	972	LEU	N-CA-C	6.28	117.79	111.07
2	Y	1038	ILE	CA-C-N	6.28	128.70	120.60
2	Y	1038	ILE	C-N-CA	6.28	128.70	120.60
7	M	192	ILE	N-CA-CB	6.28	120.00	110.58
7	M	839	SER	N-CA-CB	6.28	119.35	110.12
7	O	606	VAL	CA-C-O	6.28	127.50	120.85
7	O	731	PHE	CA-CB-CG	6.28	120.08	113.80
9	T	142	HIS	CA-C-N	6.28	128.60	120.44
9	T	142	HIS	C-N-CA	6.28	128.60	120.44
9	T	224	ASN	CA-C-N	6.28	128.69	120.28
9	T	224	ASN	C-N-CA	6.28	128.69	120.28
2	Y	1333	HIS	CA-C-O	-6.28	113.90	120.55
7	M	1076	ALA	O-C-N	-6.28	115.47	122.12
9	Q	720	ILE	O-C-N	-6.28	115.78	121.87
6	I	270	PRO	N-CA-CB	6.28	109.90	103.00
6	I	403	THR	CA-C-N	6.28	129.32	120.28
6	I	403	THR	C-N-CA	6.28	129.32	120.28
7	O	494	GLU	CB-CA-C	-6.28	98.62	110.67
6	C	403	THR	CA-C-N	6.27	129.31	120.28
6	C	403	THR	C-N-CA	6.27	129.31	120.28
8	N	767	ILE	CB-CA-C	-6.27	103.94	111.97
2	0	236	THR	CA-C-N	6.27	128.69	120.28
2	0	236	THR	C-N-CA	6.27	128.69	120.28
9	S	638	TYR	CA-C-O	6.27	127.07	120.42
8	N	813	ILE	N-CA-CB	6.27	119.74	112.15
9	T	277	TYR	CA-C-N	6.27	128.68	120.28
9	T	277	TYR	C-N-CA	6.27	128.68	120.28
2	0	1386	PRO	CA-C-N	6.27	129.05	120.46
2	0	1386	PRO	C-N-CA	6.27	129.05	120.46
7	M	56	ILE	CA-CB-CG1	6.27	121.06	110.40
7	O	975	SER	O-C-N	6.27	128.76	122.12
7	O	1367	ASP	CA-C-N	6.27	128.68	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	1367	ASP	C-N-CA	6.27	128.68	120.28
8	P	1268	SER	CA-C-O	6.27	127.08	119.31
7	M	1176	GLU	CA-C-N	6.27	128.46	120.56
7	M	1176	GLU	C-N-CA	6.27	128.46	120.56
9	Q	561	THR	N-CA-CB	6.27	120.64	110.42
9	R	86	PHE	O-C-N	6.27	128.76	122.12
4	G	774	ASN	O-C-N	6.27	128.53	122.07
7	O	1041	PHE	CA-C-N	6.27	129.05	120.46
7	O	1041	PHE	C-N-CA	6.27	129.05	120.46
8	P	367	GLU	N-CA-C	6.27	117.78	111.07
7	M	140	LEU	CA-C-N	6.27	128.46	120.56
7	M	140	LEU	C-N-CA	6.27	128.46	120.56
7	O	639	LEU	N-CA-CB	6.27	119.33	110.12
8	P	586	LEU	CA-C-N	6.27	129.19	120.29
8	P	586	LEU	C-N-CA	6.27	129.19	120.29
7	O	152	HIS	CA-CB-CG	-6.26	107.53	113.80
10	W	318	TYR	N-CA-C	-6.26	97.60	108.69
6	F	380	TYR	N-CA-CB	6.26	119.15	110.07
8	N	1193	ASN	OD1-CG-ND2	6.26	128.86	122.60
3	1	805	ILE	CB-CA-C	-6.26	103.95	111.97
3	1	269	THR	N-CA-C	-6.26	101.50	111.02
8	P	770	HIS	CG-CD2-NE2	6.26	113.46	107.20
8	P	1083	ALA	N-CA-CB	6.26	119.09	110.01
9	S	269	ASN	CA-CB-CG	6.26	118.86	112.60
7	M	1052	LEU	N-CA-CB	6.26	119.32	110.12
9	Q	404	GLY	O-C-N	6.26	130.84	122.70
9	R	762	ASN	CA-CB-CG	6.26	118.86	112.60
7	O	1076	ALA	O-C-N	-6.26	115.49	122.12
9	T	814	MET	O-C-N	6.26	129.29	122.15
2	0	1406	HIS	N-CA-C	-6.26	105.28	113.17
8	P	240	GLN	CA-C-O	6.26	127.15	120.70
9	R	468	SER	N-CA-C	6.26	119.08	111.82
2	0	943	ASP	CA-C-N	6.26	128.66	120.28
2	0	943	ASP	C-N-CA	6.26	128.66	120.28
6	I	292	HIS	CB-CG-CD2	-6.26	123.07	131.20
7	O	966	LEU	CA-C-N	6.26	128.66	120.28
7	O	966	LEU	C-N-CA	6.26	128.66	120.28
8	P	783	PHE	CA-CB-CG	-6.26	107.54	113.80
9	S	406	PRO	N-CA-C	6.26	121.77	113.57
9	T	50	ARG	CA-C-N	6.26	128.99	120.54
9	T	50	ARG	C-N-CA	6.26	128.99	120.54
3	Z	1184	ASP	N-CA-C	6.25	118.79	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	1432	ARG	N-CA-C	-6.25	99.52	109.59
7	M	850	GLN	CG-CD-NE2	6.25	125.78	116.40
7	M	906	LEU	CA-C-O	6.25	126.28	119.15
3	1	1156	LEU	CA-C-N	6.25	128.66	120.28
3	1	1156	LEU	C-N-CA	6.25	128.66	120.28
5	K	509	ILE	CA-C-O	-6.25	113.72	120.47
9	S	300	THR	N-CA-CB	6.25	119.23	110.04
9	Q	300	THR	N-CA-CB	6.25	119.23	110.04
7	O	1176	GLU	CA-C-N	6.25	128.44	120.56
7	O	1176	GLU	C-N-CA	6.25	128.44	120.56
3	Z	269	THR	N-CA-C	-6.25	101.52	111.02
7	O	481	PHE	CA-CB-CG	-6.25	107.55	113.80
2	Y	986	THR	N-CA-C	-6.25	104.55	111.36
3	Z	850	HIS	CA-C-N	6.25	129.81	120.31
3	Z	850	HIS	C-N-CA	6.25	129.81	120.31
5	E	517	GLN	OE1-CD-NE2	-6.25	116.35	122.60
8	N	477	LEU	N-CA-CB	6.25	119.94	109.94
8	N	586	LEU	CA-C-N	6.25	129.16	120.29
8	N	586	LEU	C-N-CA	6.25	129.16	120.29
8	N	802	LEU	N-CA-CB	6.25	119.30	110.12
2	0	1407	ILE	CA-C-O	6.25	127.67	120.67
8	P	1432	ARG	N-CA-C	-6.25	99.53	109.59
9	S	641	ILE	CA-C-N	6.25	128.65	120.28
9	S	641	ILE	C-N-CA	6.25	128.65	120.28
2	Y	957	ASP	CA-C-N	6.25	128.65	120.28
2	Y	957	ASP	C-N-CA	6.25	128.65	120.28
9	Q	638	TYR	CA-C-O	6.25	127.04	120.42
9	R	277	TYR	CA-C-N	6.25	128.65	120.28
9	R	277	TYR	C-N-CA	6.25	128.65	120.28
3	1	114	PRO	CA-C-N	6.25	133.47	121.54
3	1	114	PRO	C-N-CA	6.25	133.47	121.54
3	1	238	ASN	CA-C-N	6.25	129.74	120.87
3	1	238	ASN	C-N-CA	6.25	129.74	120.87
8	P	1392	PHE	CA-C-N	6.25	128.65	120.28
8	P	1392	PHE	C-N-CA	6.25	128.65	120.28
2	Y	236	THR	CA-C-N	6.24	128.65	120.28
2	Y	236	THR	C-N-CA	6.24	128.65	120.28
2	Y	1169	ASN	CA-CB-CG	-6.24	106.36	112.60
5	E	509	ILE	CA-C-O	-6.24	113.73	120.47
7	M	249	ASP	CA-CB-CG	6.24	118.84	112.60
7	M	523	ARG	N-CA-CB	6.24	119.30	110.12
10	U	318	TYR	N-CA-C	-6.24	97.64	108.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	1255	ILE	N-CA-C	6.24	116.42	110.42
9	S	812	GLN	CA-C-N	6.24	128.65	120.28
9	S	812	GLN	C-N-CA	6.24	128.65	120.28
9	T	710	ASN	N-CA-CB	6.24	119.83	110.22
3	1	850	HIS	CA-C-N	6.24	129.80	120.31
3	1	850	HIS	C-N-CA	6.24	129.80	120.31
8	P	21	PHE	CA-C-N	6.24	128.64	120.28
8	P	21	PHE	C-N-CA	6.24	128.64	120.28
2	Y	589	HIS	CG-CD2-NE2	6.24	113.44	107.20
3	Z	743	PHE	CA-C-O	-6.24	113.92	121.28
9	Q	406	PRO	N-CA-C	6.24	121.74	113.57
3	1	743	PHE	CA-C-O	-6.24	113.92	121.28
7	O	760	ILE	CA-C-N	6.24	128.64	120.28
7	O	760	ILE	C-N-CA	6.24	128.64	120.28
2	Y	110	HIS	CG-CD2-NE2	6.24	113.44	107.20
7	M	1608	ILE	CA-C-N	6.24	128.64	120.28
7	M	1608	ILE	C-N-CA	6.24	128.64	120.28
8	N	455	PHE	CA-C-O	-6.24	114.27	120.82
8	N	869	LYS	CA-C-O	-6.24	114.76	120.50
9	Q	812	GLN	CA-C-N	6.24	128.64	120.28
9	Q	812	GLN	C-N-CA	6.24	128.64	120.28
2	0	589	HIS	CG-CD2-NE2	6.24	113.44	107.20
2	0	957	ASP	CA-C-N	6.24	128.64	120.28
2	0	957	ASP	C-N-CA	6.24	128.64	120.28
7	O	839	SER	N-CA-CB	6.24	119.29	110.12
2	Y	1406	HIS	N-CA-C	-6.24	105.31	113.17
9	R	50	ARG	CA-C-N	6.24	128.96	120.54
9	R	50	ARG	C-N-CA	6.24	128.96	120.54
9	R	143	ASN	O-C-N	6.24	128.49	122.07
3	1	1005	TYR	CB-CG-CD1	6.24	130.16	120.80
3	Z	1241	LEU	N-CA-C	6.24	117.74	111.07
7	M	975	SER	O-C-N	6.24	128.73	122.12
3	1	626	GLU	N-CA-C	-6.24	104.48	111.28
2	0	136	SER	N-CA-C	-6.23	99.25	108.79
2	Y	311	LYS	CA-C-O	6.23	127.83	120.66
3	Z	563	THR	N-CA-C	-6.23	98.10	108.32
3	Z	1156	LEU	CA-C-N	6.23	128.63	120.28
3	Z	1156	LEU	C-N-CA	6.23	128.63	120.28
7	M	760	ILE	CA-C-N	6.23	128.63	120.28
7	M	760	ILE	C-N-CA	6.23	128.63	120.28
8	N	1268	SER	CA-C-O	6.23	127.04	119.31
9	Q	795	GLN	N-CA-C	-6.23	105.54	113.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	1488	ILE	N-CA-CB	6.23	119.02	110.54
5	K	302	ASN	OD1-CG-ND2	6.23	128.83	122.60
8	P	477	LEU	N-CA-CB	6.23	119.91	109.94
7	M	907	HIS	CB-CG-CD2	-6.23	123.10	131.20
8	N	21	PHE	CA-C-N	6.23	128.62	120.28
8	N	21	PHE	C-N-CA	6.23	128.62	120.28
8	N	353	ALA	CA-C-N	6.23	128.62	120.28
8	N	353	ALA	C-N-CA	6.23	128.62	120.28
9	R	710	ASN	N-CA-CB	6.23	119.81	110.22
3	1	563	THR	N-CA-C	-6.23	98.11	108.32
7	O	249	ASP	CA-CB-CG	6.23	118.83	112.60
7	O	1004	ASP	CA-C-N	6.23	128.62	120.28
7	O	1004	ASP	C-N-CA	6.23	128.62	120.28
8	P	1399	ASN	CA-C-N	6.23	126.58	119.92
8	P	1399	ASN	C-N-CA	6.23	126.58	119.92
9	S	621	HIS	CG-CD2-NE2	6.23	113.43	107.20
2	Y	483	HIS	CA-CB-CG	-6.22	107.58	113.80
8	N	1255	ILE	N-CA-C	6.22	116.39	110.42
8	N	1645	LYS	CB-CA-C	-6.22	100.46	110.79
9	Q	241	ILE	CA-C-N	6.22	129.77	120.31
9	Q	241	ILE	C-N-CA	6.22	129.77	120.31
10	U	258	TYR	CA-C-N	6.22	127.62	119.84
10	U	258	TYR	C-N-CA	6.22	127.62	119.84
3	1	1232	LYS	N-CA-C	6.22	117.73	111.07
9	S	561	THR	N-CA-CB	6.22	120.57	110.42
7	M	233	TYR	CA-C-N	6.22	127.87	120.09
7	M	233	TYR	C-N-CA	6.22	127.87	120.09
7	M	966	LEU	CA-C-N	6.22	128.62	120.28
7	M	966	LEU	C-N-CA	6.22	128.62	120.28
8	N	729	HIS	CG-CD2-NE2	6.22	113.42	107.20
3	1	768	ILE	N-CA-C	-6.22	104.68	110.53
8	P	783	PHE	N-CA-C	-6.22	105.73	113.38
3	Z	1232	LYS	N-CA-C	6.22	117.73	111.07
7	M	1004	ASP	CA-C-N	6.22	128.62	120.28
7	M	1004	ASP	C-N-CA	6.22	128.62	120.28
9	Q	728	PHE	CA-CB-CG	6.22	120.02	113.80
9	S	404	GLY	O-C-N	6.22	130.79	122.70
4	A	751	LEU	N-CA-C	-6.22	98.27	108.41
7	M	160	GLN	OE1-CD-NE2	6.22	128.82	122.60
8	N	1011	GLU	CA-C-N	6.22	128.98	120.46
8	N	1011	GLU	C-N-CA	6.22	128.98	120.46
8	N	1446	PHE	CA-C-N	6.22	128.39	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	1446	PHE	C-N-CA	6.22	128.39	120.56
9	R	438	MET	N-CA-C	6.22	118.06	111.28
2	0	986	THR	N-CA-C	-6.22	104.58	111.36
3	1	606	SER	N-CA-C	6.22	119.03	111.82
8	P	729	HIS	CG-CD2-NE2	6.22	113.42	107.20
9	T	325	LEU	N-CA-CB	6.22	121.65	110.83
9	T	438	MET	N-CA-C	6.22	118.06	111.28
2	Y	1187	MET	CA-C-O	6.21	127.01	120.42
8	N	972	LEU	N-CA-C	6.21	117.72	111.07
8	P	802	LEU	N-CA-CB	6.21	119.26	110.12
2	Y	99	LYS	CB-CA-C	-6.21	99.37	109.56
3	Z	241	THR	N-CA-C	-6.21	103.76	113.02
3	1	1241	LEU	N-CA-C	6.21	117.72	111.07
7	M	1488	ILE	N-CA-CB	6.21	118.99	110.54
8	N	783	PHE	CA-CB-CG	-6.21	107.59	113.80
9	R	325	LEU	N-CA-CB	6.21	121.64	110.83
9	R	342	ARG	NE-CZ-NH2	6.21	124.79	119.20
7	O	1007	THR	N-CA-CB	6.21	119.25	110.12
8	P	1542	ALA	N-CA-C	-6.21	98.39	108.52
8	P	1645	LYS	CB-CA-C	-6.21	100.48	110.79
9	S	382	LEU	CA-C-O	-6.21	114.45	120.97
9	T	365	GLN	CA-C-N	6.21	128.51	120.44
9	T	365	GLN	C-N-CA	6.21	128.51	120.44
9	T	808	ASN	CA-CB-CG	6.21	118.81	112.60
6	F	378	HIS	CG-CD2-NE2	6.21	113.41	107.20
2	Y	943	ASP	CA-C-N	6.21	128.60	120.28
2	Y	943	ASP	C-N-CA	6.21	128.60	120.28
3	Z	253	VAL	O-C-N	6.21	129.64	123.18
3	1	253	VAL	O-C-N	6.21	129.64	123.18
3	1	1005	TYR	CB-CG-CD2	-6.21	111.49	120.80
9	S	720	ILE	O-C-N	-6.21	115.85	121.87
2	Y	1291	ASP	CA-CB-CG	6.21	118.81	112.60
8	N	115	SER	O-C-N	6.21	128.70	122.12
9	Q	382	LEU	CA-C-O	-6.21	114.45	120.97
3	1	1087	ARG	NE-CZ-NH1	6.21	127.71	121.50
4	G	751	LEU	N-CA-C	-6.21	98.29	108.41
9	S	241	ILE	CA-C-N	6.21	129.75	120.31
9	S	241	ILE	C-N-CA	6.21	129.75	120.31
3	Z	1005	TYR	CB-CG-CD1	6.21	130.11	120.80
7	O	425	ASP	CA-C-O	-6.21	114.26	120.90
8	P	353	ALA	CA-C-N	6.21	128.59	120.28
8	P	353	ALA	C-N-CA	6.21	128.59	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	788	HIS	N-CA-C	-6.20	104.99	113.30
8	N	1392	PHE	CA-C-N	6.20	128.59	120.28
8	N	1392	PHE	C-N-CA	6.20	128.59	120.28
9	T	342	ARG	NE-CZ-NH2	6.20	124.78	119.20
2	0	1256	VAL	CA-CB-CG2	-6.20	99.86	110.40
3	Z	1384	LYS	CA-C-O	-6.20	113.98	120.55
7	M	1007	THR	N-CA-CB	6.20	119.23	110.12
9	Q	505	HIS	CA-C-N	6.20	128.59	120.28
9	Q	505	HIS	C-N-CA	6.20	128.59	120.28
9	R	365	GLN	CA-C-N	6.20	128.50	120.44
9	R	365	GLN	C-N-CA	6.20	128.50	120.44
3	1	241	THR	N-CA-C	-6.20	103.78	113.02
7	O	1608	ILE	CA-C-N	6.20	128.59	120.28
7	O	1608	ILE	C-N-CA	6.20	128.59	120.28
9	S	33	PRO	N-CA-CB	6.20	110.38	103.44
7	M	425	ASP	CA-C-O	-6.20	114.27	120.90
7	M	1284	SER	CA-C-N	6.20	128.59	120.28
7	M	1284	SER	C-N-CA	6.20	128.59	120.28
8	N	1542	ALA	N-CA-C	-6.20	98.42	108.52
4	J	688	HIS	CE1-NE2-CD2	-6.20	102.80	109.00
7	O	160	GLN	OE1-CD-NE2	6.20	128.80	122.60
7	O	514	CYS	O-C-N	6.20	128.69	122.12
7	M	29	LEU	CA-C-O	6.20	124.03	118.33
7	O	523	ARG	CB-CA-C	-6.20	100.50	110.79
2	Y	1407	ILE	CA-C-O	6.20	127.61	120.67
3	Z	365	SER	CA-C-N	6.20	131.73	122.99
3	Z	365	SER	C-N-CA	6.20	131.73	122.99
9	Q	504	VAL	CA-C-N	6.20	129.73	120.31
9	Q	504	VAL	C-N-CA	6.20	129.73	120.31
7	M	430	PHE	CA-C-N	6.19	128.83	120.65
7	M	430	PHE	C-N-CA	6.19	128.83	120.65
7	O	506	ASN	CA-C-N	6.19	128.49	120.44
7	O	506	ASN	C-N-CA	6.19	128.49	120.44
5	E	302	ASN	OD1-CG-ND2	6.19	128.79	122.60
8	P	788	HIS	N-CA-C	-6.19	105.00	113.30
9	S	504	VAL	CA-C-N	6.19	129.72	120.31
9	S	504	VAL	C-N-CA	6.19	129.72	120.31
9	R	52	ARG	CA-C-N	6.19	129.26	120.53
9	R	52	ARG	C-N-CA	6.19	129.26	120.53
8	P	770	HIS	CE1-NE2-CD2	-6.19	102.81	109.00
9	S	456	ARG	NE-CZ-NH1	6.19	127.69	121.50
9	S	728	PHE	CA-CB-CG	6.19	119.99	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	506	ASN	CA-C-N	6.19	128.49	120.44
7	M	506	ASN	C-N-CA	6.19	128.49	120.44
3	1	365	SER	CA-C-N	6.19	131.72	122.99
3	1	365	SER	C-N-CA	6.19	131.72	122.99
3	Z	626	GLU	N-CA-C	-6.19	104.53	111.28
7	O	1222	ASN	CA-CB-CG	-6.19	106.41	112.60
6	L	378	HIS	CG-CD2-NE2	6.19	113.39	107.20
7	O	1284	SER	CA-C-N	6.19	128.57	120.28
7	O	1284	SER	C-N-CA	6.19	128.57	120.28
9	T	33	PRO	N-CA-CB	6.19	110.37	103.44
9	T	52	ARG	CA-C-N	6.19	129.25	120.53
9	T	52	ARG	C-N-CA	6.19	129.25	120.53
9	T	762	ASN	CA-CB-CG	6.19	118.79	112.60
8	P	826	SER	CA-C-N	6.18	126.30	119.87
8	P	826	SER	C-N-CA	6.18	126.30	119.87
8	P	1509	GLN	CA-C-O	-6.18	112.46	120.00
2	0	99	LYS	CB-CA-C	-6.18	99.42	109.56
8	P	1371	HIS	CE1-NE2-CD2	-6.18	102.82	109.00
7	M	1367	ASP	CA-C-N	6.18	128.56	120.28
7	M	1367	ASP	C-N-CA	6.18	128.56	120.28
8	N	1509	GLN	CA-C-O	-6.18	112.46	120.00
9	T	143	ASN	O-C-N	6.18	128.44	122.07
7	M	1222	ASN	CA-CB-CG	-6.18	106.42	112.60
3	Z	192	HIS	CG-CD2-NE2	6.18	113.38	107.20
4	D	693	ILE	CA-CB-CG1	6.18	120.90	110.40
2	Y	1081	CYS	N-CA-C	-6.18	104.65	111.82
3	Z	1005	TYR	CB-CG-CD2	-6.18	111.53	120.80
8	N	905	SER	CA-C-N	6.18	128.56	120.28
8	N	905	SER	C-N-CA	6.18	128.56	120.28
2	0	279	SER	N-CA-C	-6.18	105.43	114.39
7	O	1516	THR	O-C-N	6.18	128.67	122.12
9	T	86	PHE	N-CA-C	6.18	118.01	111.28
4	A	663	ASN	OD1-CG-ND2	6.17	128.77	122.60
3	Z	760	SER	CA-C-N	6.17	128.34	120.56
3	Z	760	SER	C-N-CA	6.17	128.34	120.56
7	M	606	VAL	CA-C-O	6.17	127.39	120.85
8	N	98	ALA	CA-C-N	6.17	128.46	120.56
8	N	98	ALA	C-N-CA	6.17	128.46	120.56
8	N	1538	ASP	CA-C-N	6.17	132.53	122.65
8	N	1538	ASP	C-N-CA	6.17	132.53	122.65
8	P	1613	ASN	CA-CB-CG	6.17	118.77	112.60
3	Z	363	VAL	N-CA-C	-6.17	99.69	108.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	685	MET	N-CA-C	-6.17	104.45	112.23
7	M	1440	ILE	N-CA-C	-6.17	104.27	111.00
4	G	685	MET	N-CA-C	-6.17	104.45	112.23
7	O	906	LEU	CA-C-O	6.17	126.19	119.15
8	P	356	HIS	CG-CD2-NE2	6.17	113.37	107.20
8	P	449	ASP	CA-CB-CG	6.17	118.77	112.60
8	P	905	SER	CA-C-N	6.17	128.55	120.28
8	P	905	SER	C-N-CA	6.17	128.55	120.28
9	S	345	LEU	CA-C-N	6.17	128.92	120.46
9	S	345	LEU	C-N-CA	6.17	128.92	120.46
5	E	437	TRP	N-CA-CB	6.17	120.78	110.41
3	Z	606	SER	N-CA-C	6.17	118.97	111.82
4	A	712	ASP	CB-CA-C	-6.17	101.20	110.88
7	M	523	ARG	CB-CA-C	-6.17	100.55	110.79
7	M	1252	VAL	CA-C-N	6.17	129.05	120.29
7	M	1252	VAL	C-N-CA	6.17	129.05	120.29
9	R	814	MET	O-C-N	6.17	129.18	122.15
4	G	712	ASP	CB-CA-C	-6.17	101.20	110.88
7	O	1252	VAL	CA-C-N	6.17	129.05	120.29
7	O	1252	VAL	C-N-CA	6.17	129.05	120.29
7	M	570	SER	CA-C-N	6.17	128.54	120.28
7	M	570	SER	C-N-CA	6.17	128.54	120.28
8	N	1002	SER	N-CA-C	6.17	118.80	111.71
8	N	1214	PHE	O-C-N	6.17	128.42	122.07
4	G	808	ASP	CA-C-O	6.17	127.07	119.79
7	O	233	TYR	CA-C-N	6.17	127.80	120.09
7	O	233	TYR	C-N-CA	6.17	127.80	120.09
7	O	928	LEU	N-CA-CB	6.17	119.72	110.22
8	P	1446	PHE	CA-C-N	6.17	128.33	120.56
8	P	1446	PHE	C-N-CA	6.17	128.33	120.56
5	B	316	VAL	N-CA-C	-6.17	99.27	108.46
5	B	393	ASP	N-CA-CB	6.16	120.91	110.49
8	N	1399	ASN	CA-C-N	6.16	126.52	119.92
8	N	1399	ASN	C-N-CA	6.16	126.52	119.92
8	P	1002	SER	N-CA-C	6.16	118.80	111.71
8	N	449	ASP	CA-CB-CG	6.16	118.76	112.60
3	Z	927	HIS	CE1-NE2-CD2	-6.16	102.84	109.00
8	N	1564	LEU	CA-C-O	-6.16	112.45	119.78
2	0	1054	MET	N-CA-C	6.16	118.00	111.28
3	1	760	SER	CA-C-N	6.16	128.32	120.56
3	1	760	SER	C-N-CA	6.16	128.32	120.56
8	P	745	HIS	CE1-NE2-CD2	-6.16	102.84	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y	279	SER	N-CA-C	-6.16	105.46	114.39
4	G	663	ASN	OD1-CG-ND2	6.16	128.76	122.60
2	Y	408	ARG	NE-CZ-NH2	6.16	124.74	119.20
9	Q	621	HIS	CG-CD2-NE2	6.16	113.36	107.20
5	E	471	LYS	N-CA-C	-6.16	105.26	112.89
6	L	308	ILE	N-CA-CB	-6.16	102.59	111.21
7	O	1258	HIS	CE1-NE2-CD2	-6.16	102.84	109.00
8	P	1564	LEU	CA-C-O	-6.16	112.45	119.78
9	S	480	GLN	OE1-CD-NE2	-6.16	116.44	122.60
2	Y	576	LEU	O-C-N	-6.15	116.03	123.29
5	K	471	LYS	N-CA-C	-6.15	105.26	112.89
7	O	1440	ILE	N-CA-C	-6.15	104.29	111.00
2	Y	1256	VAL	CA-CB-CG2	-6.15	99.94	110.40
8	P	98	ALA	CA-C-N	6.15	128.44	120.56
8	P	98	ALA	C-N-CA	6.15	128.44	120.56
8	P	369	LEU	CB-CA-C	-6.15	99.42	110.37
2	Y	842	TYR	CA-C-O	-6.15	113.90	120.42
7	M	1635	ARG	N-CA-CB	6.15	119.16	110.12
8	N	1413	ASN	CB-CG-ND2	-6.15	107.17	116.40
5	H	393	ASP	N-CA-CB	6.15	120.89	110.49
8	P	1089	SER	CA-C-N	6.15	128.52	120.28
8	P	1089	SER	C-N-CA	6.15	128.52	120.28
8	P	1214	PHE	O-C-N	6.15	128.41	122.07
9	Q	456	ARG	NE-CZ-NH1	6.15	127.65	121.50
4	J	693	ILE	CA-CB-CG1	6.15	120.85	110.40
8	P	1538	ASP	CA-C-N	6.15	132.49	122.65
8	P	1538	ASP	C-N-CA	6.15	132.49	122.65
7	M	152	HIS	CA-CB-CG	-6.15	107.65	113.80
7	M	321	GLN	OE1-CD-NE2	-6.15	116.45	122.60
8	N	356	HIS	CG-CD2-NE2	6.15	113.35	107.20
8	N	369	LEU	CB-CA-C	-6.15	99.43	110.37
9	Q	628	ALA	CA-C-N	6.15	128.52	120.28
9	Q	628	ALA	C-N-CA	6.15	128.52	120.28
9	Q	722	SER	CA-C-N	6.15	128.88	120.46
9	Q	722	SER	C-N-CA	6.15	128.88	120.46
9	Q	782	ILE	CA-C-O	-6.15	114.56	120.95
5	H	316	VAL	N-CA-C	-6.15	99.30	108.46
7	O	430	PHE	CA-C-N	6.15	128.76	120.65
7	O	430	PHE	C-N-CA	6.15	128.76	120.65
7	M	325	PHE	N-CA-C	6.15	117.65	111.07
7	M	1258	HIS	CE1-NE2-CD2	-6.15	102.85	109.00
9	T	590	LEU	N-CA-C	-6.15	106.10	113.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y	656	ASP	CA-C-N	6.14	128.51	120.28
2	Y	656	ASP	C-N-CA	6.14	128.51	120.28
5	K	437	TRP	N-CA-CB	6.14	120.73	110.41
8	N	681	LEU	O-C-N	6.14	128.40	122.07
8	N	1613	ASN	CA-CB-CG	6.14	118.74	112.60
9	Q	345	LEU	CA-C-N	6.14	128.88	120.46
9	Q	345	LEU	C-N-CA	6.14	128.88	120.46
3	1	1080	VAL	O-C-N	6.14	128.29	121.90
7	M	514	CYS	O-C-N	6.14	128.63	122.12
3	1	1384	LYS	CA-C-O	-6.14	114.04	120.55
6	F	308	ILE	N-CA-CB	-6.14	102.61	111.21
7	M	835	LYS	CA-C-O	-6.14	113.16	120.10
2	0	311	LYS	CA-C-O	6.14	127.72	120.66
2	0	656	ASP	CA-C-N	6.14	128.51	120.28
2	0	656	ASP	C-N-CA	6.14	128.51	120.28
7	O	570	SER	CA-C-N	6.14	128.51	120.28
7	O	570	SER	C-N-CA	6.14	128.51	120.28
8	P	680	ASP	CA-C-N	6.14	128.42	120.44
8	P	680	ASP	C-N-CA	6.14	128.42	120.44
2	Y	382	ILE	CA-C-N	6.14	130.82	120.88
2	Y	382	ILE	C-N-CA	6.14	130.82	120.88
3	Z	1271	ARG	N-CA-C	6.14	117.64	111.07
9	R	549	ASP	CA-CB-CG	6.14	118.74	112.60
2	0	610	PRO	N-CA-CB	6.14	109.05	103.34
3	1	353	VAL	N-CA-C	-6.14	99.52	108.11
6	L	321	ALA	CA-C-N	6.14	129.00	120.29
6	L	321	ALA	C-N-CA	6.14	129.00	120.29
8	N	783	PHE	N-CA-C	-6.13	105.83	113.38
2	0	628	PHE	CA-CB-CG	-6.13	107.67	113.80
8	P	1046	LYS	CA-C-O	-6.13	114.05	120.55
8	P	1475	SER	N-CA-C	6.13	117.63	111.07
8	N	125	GLU	N-CA-CB	6.13	118.90	110.01
8	N	1475	SER	N-CA-C	6.13	117.63	111.07
11	V	297	ASP	N-CA-C	6.13	119.15	110.50
7	M	108	LEU	CA-C-O	-6.13	114.05	120.55
8	N	871	SER	CA-C-N	6.13	128.50	120.28
8	N	871	SER	C-N-CA	6.13	128.50	120.28
2	0	285	ALA	CA-C-N	6.13	127.28	121.46
2	0	285	ALA	C-N-CA	6.13	127.28	121.46
2	0	576	LEU	O-C-N	-6.13	116.05	123.29
2	0	842	TYR	CA-C-O	-6.13	113.92	120.42
2	0	1291	ASP	CA-CB-CG	6.13	118.73	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1	1379	VAL	N-CA-C	-6.13	104.38	113.39
8	P	52	ILE	CA-C-N	6.13	128.50	120.28
8	P	52	ILE	C-N-CA	6.13	128.50	120.28
2	Y	285	ALA	CA-C-N	6.13	127.28	121.46
2	Y	285	ALA	C-N-CA	6.13	127.28	121.46
2	0	1336	ILE	N-CA-CB	6.13	117.72	110.55
7	O	29	LEU	CA-C-O	6.13	123.97	118.33
8	P	1327	ARG	NE-CZ-NH2	6.13	124.72	119.20
7	M	286	ILE	CA-C-N	6.13	126.74	119.94
7	M	286	ILE	C-N-CA	6.13	126.74	119.94
8	N	1371	HIS	CE1-NE2-CD2	-6.13	102.87	109.00
2	Y	1213	SER	CA-C-N	6.13	128.49	120.28
2	Y	1213	SER	C-N-CA	6.13	128.49	120.28
9	R	33	PRO	N-CA-CB	6.13	110.30	103.44
3	Z	731	PHE	N-CA-C	-6.12	98.29	108.34
9	R	86	PHE	N-CA-C	6.12	117.96	111.28
9	R	281	GLN	N-CA-CB	6.12	119.12	110.12
7	O	325	PHE	N-CA-C	6.12	117.62	111.07
2	Y	500	MET	N-CA-C	-6.12	99.74	109.23
9	Q	717	LEU	O-C-N	6.12	128.61	122.12
2	0	176	PHE	CA-C-N	6.12	126.02	119.28
2	0	176	PHE	C-N-CA	6.12	126.02	119.28
3	1	1323	TYR	CB-CA-C	-6.12	100.62	110.79
8	P	1309	ARG	CA-C-N	6.12	125.85	119.05
8	P	1309	ARG	C-N-CA	6.12	125.85	119.05
9	T	539	ALA	CB-CA-C	-6.12	100.62	110.79
9	T	828	THR	CA-C-N	6.12	128.49	120.28
9	T	828	THR	C-N-CA	6.12	128.49	120.28
9	R	590	LEU	N-CA-C	-6.12	106.14	113.97
7	O	321	GLN	OE1-CD-NE2	-6.12	116.48	122.60
8	P	871	SER	CA-C-N	6.12	128.48	120.28
8	P	871	SER	C-N-CA	6.12	128.48	120.28
2	Y	655	PRO	N-CA-C	6.12	122.68	113.81
9	R	510	LEU	CA-C-N	6.12	128.48	120.28
9	R	510	LEU	C-N-CA	6.12	128.48	120.28
2	0	382	ILE	CA-C-N	6.12	130.79	120.88
2	0	382	ILE	C-N-CA	6.12	130.79	120.88
3	1	1221	ARG	O-C-N	-6.12	115.63	122.12
7	O	237	PHE	CA-CB-CG	-6.12	107.68	113.80
9	T	155	VAL	CA-C-O	-6.12	113.13	120.78
9	T	549	ASP	CA-CB-CG	6.12	118.72	112.60
2	Y	440	THR	CA-C-N	6.12	130.14	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y	440	THR	C-N-CA	6.12	130.14	120.47
8	N	1089	SER	CA-C-N	6.12	128.48	120.28
8	N	1089	SER	C-N-CA	6.12	128.48	120.28
9	Q	223	ASN	O-C-N	6.12	128.61	122.12
9	Q	480	GLN	OE1-CD-NE2	-6.12	116.48	122.60
3	1	213	THR	CA-C-N	6.12	131.00	121.76
3	1	213	THR	C-N-CA	6.12	131.00	121.76
2	Y	610	PRO	N-CA-CB	6.12	109.03	103.34
7	M	928	LEU	N-CA-CB	6.12	119.64	110.22
2	0	500	MET	N-CA-C	-6.12	99.75	109.23
6	L	379	LEU	CA-C-N	6.12	128.76	120.44
6	L	379	LEU	C-N-CA	6.12	128.76	120.44
7	O	286	ILE	CA-C-N	6.12	126.73	119.94
7	O	286	ILE	C-N-CA	6.12	126.73	119.94
7	O	715	ASN	CA-CB-CG	6.12	118.72	112.60
8	P	1413	ASN	CB-CG-ND2	-6.12	107.23	116.40
9	R	552	VAL	CB-CA-C	-6.11	103.89	112.14
2	0	1340	TRP	N-CA-C	-6.11	104.62	111.28
3	1	121	LEU	N-CA-C	-6.11	98.94	108.90
8	P	97	HIS	ND1-CE1-NE2	6.11	114.51	108.40
8	P	125	GLU	N-CA-CB	6.11	118.87	110.01
8	P	427	ILE	CA-C-N	6.11	128.26	120.56
8	P	427	ILE	C-N-CA	6.11	128.26	120.56
2	Y	523	SER	CA-C-O	-6.11	115.07	121.55
8	N	97	HIS	ND1-CE1-NE2	6.11	114.51	108.40
8	N	427	ILE	CA-C-N	6.11	128.26	120.56
8	N	427	ILE	C-N-CA	6.11	128.26	120.56
8	N	826	SER	CA-C-N	6.11	126.23	119.87
8	N	826	SER	C-N-CA	6.11	126.23	119.87
9	R	155	VAL	CA-C-O	-6.11	113.14	120.78
2	0	1378	VAL	N-CA-C	-6.11	107.17	113.10
2	0	1463	ARG	N-CA-C	-6.11	105.11	113.30
3	1	192	HIS	CG-CD2-NE2	6.11	113.31	107.20
7	O	1430	LEU	N-CA-C	6.11	118.74	111.71
8	P	516	CYS	N-CA-C	-6.11	97.78	110.80
9	S	302	VAL	CA-C-N	6.11	129.60	120.31
9	S	302	VAL	C-N-CA	6.11	129.60	120.31
3	Z	827	ASN	CA-CB-CG	6.11	118.71	112.60
11	V	365	SER	CA-C-N	6.11	128.38	120.44
11	V	365	SER	C-N-CA	6.11	128.38	120.44
2	0	440	THR	CA-C-N	6.11	130.12	120.47
2	0	440	THR	C-N-CA	6.11	130.12	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	628	ALA	CA-C-N	6.11	128.47	120.28
9	S	628	ALA	C-N-CA	6.11	128.47	120.28
9	S	782	ILE	CA-C-O	-6.11	114.60	120.95
2	Y	203	VAL	N-CA-C	-6.11	99.62	108.17
2	Y	1054	MET	N-CA-C	6.11	117.94	111.28
2	Y	1288	ALA	N-CA-CB	6.11	120.81	110.49
7	M	845	ASP	CA-CB-CG	-6.11	106.49	112.60
9	R	296	GLU	N-CA-C	6.11	119.68	110.64
2	0	1081	CYS	N-CA-C	-6.11	104.73	111.82
8	P	913	ASN	N-CA-C	-6.11	105.11	113.30
2	Y	684	PHE	CA-C-O	6.11	127.43	120.90
8	N	745	HIS	CE1-NE2-CD2	-6.11	102.89	109.00
9	T	296	GLU	N-CA-C	6.11	119.67	110.64
9	T	474	PHE	CA-CB-CG	6.11	119.91	113.80
3	Z	121	LEU	N-CA-C	-6.10	98.95	108.90
8	N	569	LEU	CA-C-N	6.10	128.38	120.44
8	N	569	LEU	C-N-CA	6.10	128.38	120.44
2	Y	1336	ILE	N-CA-CB	6.10	117.69	110.55
3	Z	951	VAL	CA-C-N	6.10	128.46	120.28
3	Z	951	VAL	C-N-CA	6.10	128.46	120.28
7	O	639	LEU	CA-C-N	6.10	128.37	120.44
7	O	639	LEU	C-N-CA	6.10	128.37	120.44
8	P	608	ILE	N-CA-CB	6.10	121.30	111.23
8	P	681	LEU	O-C-N	6.10	128.35	122.07
8	P	906	TYR	N-CA-CB	6.10	119.09	110.12
9	T	569	VAL	N-CA-CB	6.10	117.69	110.55
3	Z	1087	ARG	NE-CZ-NH1	6.10	127.60	121.50
8	N	322	HIS	CA-C-N	6.10	128.37	120.44
8	N	322	HIS	C-N-CA	6.10	128.37	120.44
9	R	474	PHE	CA-CB-CG	6.10	119.90	113.80
9	S	722	SER	CA-C-N	6.10	128.82	120.46
9	S	722	SER	C-N-CA	6.10	128.82	120.46
2	Y	628	PHE	CA-CB-CG	-6.10	107.70	113.80
3	Z	1080	VAL	O-C-N	6.10	128.24	121.90
8	N	913	ASN	N-CA-C	-6.10	105.13	113.30
2	0	1288	ALA	N-CA-CB	6.10	120.80	110.49
3	1	827	ASN	CA-CB-CG	6.10	118.70	112.60
7	O	1222	ASN	OD1-CG-ND2	-6.10	116.50	122.60
2	Y	99	LYS	O-C-N	-6.10	115.36	121.27
3	Z	745	ILE	CA-C-N	6.10	128.45	120.28
3	Z	745	ILE	C-N-CA	6.10	128.45	120.28
7	O	4	SER	N-CA-C	-6.10	99.42	108.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	1635	ARG	N-CA-CB	6.10	119.08	110.12
8	P	569	LEU	CA-C-N	6.10	128.37	120.44
8	P	569	LEU	C-N-CA	6.10	128.37	120.44
2	Y	831	LYS	N-CA-C	6.10	117.41	108.14
2	0	1424	ASN	CA-C-N	6.10	128.37	120.44
2	0	1424	ASN	C-N-CA	6.10	128.37	120.44
8	P	1154	GLU	N-CA-CB	6.10	119.61	110.53
4	A	808	ASP	CA-C-O	6.09	126.98	119.79
8	N	1538	ASP	CA-CB-CG	6.09	118.69	112.60
9	R	569	VAL	N-CA-CB	6.09	117.68	110.55
2	Y	1340	TRP	N-CA-C	-6.09	104.64	111.28
3	Z	1264	SER	CA-C-N	6.09	128.24	120.56
3	Z	1264	SER	C-N-CA	6.09	128.24	120.56
4	D	665	TRP	N-CA-C	6.09	117.72	111.14
6	F	321	ALA	CA-C-N	6.09	128.94	120.29
6	F	321	ALA	C-N-CA	6.09	128.94	120.29
9	Q	794	TYR	N-CA-C	-6.09	98.35	108.34
8	P	443	ILE	CA-C-N	6.09	128.94	120.29
8	P	443	ILE	C-N-CA	6.09	128.94	120.29
8	P	1332	ILE	CB-CA-C	-6.09	104.36	112.46
9	T	281	GLN	N-CA-CB	6.09	119.07	110.12
11	X	365	SER	CA-C-N	6.09	128.36	120.44
11	X	365	SER	C-N-CA	6.09	128.36	120.44
8	N	52	ILE	CA-C-N	6.09	128.44	120.28
8	N	52	ILE	C-N-CA	6.09	128.44	120.28
8	N	906	TYR	N-CA-CB	6.09	119.07	110.12
11	V	355	TRP	CB-CG-CD1	-6.09	117.76	126.90
2	0	408	ARG	NE-CZ-NH2	6.09	124.68	119.20
7	O	1671	VAL	N-CA-CB	6.09	118.82	110.54
8	P	599	THR	N-CA-C	-6.09	104.55	111.07
9	S	794	TYR	N-CA-C	-6.09	98.35	108.34
9	T	390	LEU	N-CA-C	-6.09	104.72	111.36
9	T	552	VAL	CB-CA-C	-6.09	103.92	112.14
9	T	612	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
3	Z	353	VAL	N-CA-C	-6.09	99.59	108.11
7	M	639	LEU	CA-C-N	6.09	128.35	120.44
7	M	639	LEU	C-N-CA	6.09	128.35	120.44
7	M	715	ASN	CA-CB-CG	6.09	118.69	112.60
9	R	127	GLN	CA-C-N	6.09	128.76	120.54
9	R	127	GLN	C-N-CA	6.09	128.76	120.54
3	1	363	VAL	N-CA-C	-6.09	99.81	108.58
7	O	845	ASP	CA-CB-CG	-6.09	106.51	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	539	GLN	CA-C-N	6.09	132.10	122.60
8	P	539	GLN	C-N-CA	6.09	132.10	122.60
2	Y	385	LYS	N-CA-C	-6.08	105.15	114.16
8	N	599	THR	N-CA-C	-6.08	104.56	111.07
3	Z	1379	VAL	N-CA-C	-6.08	104.45	113.39
4	D	681	SER	N-CA-CB	6.08	119.06	110.12
9	Q	332	PRO	CA-C-N	6.08	129.06	120.42
9	Q	332	PRO	C-N-CA	6.08	129.06	120.42
9	R	836	ASP	CA-CB-CG	6.08	118.68	112.60
11	V	290	HIS	N-CA-C	-6.08	104.48	113.61
2	0	655	PRO	N-CA-C	6.08	122.63	113.81
3	Z	192	HIS	ND1-CE1-NE2	6.08	114.48	108.40
7	M	4	SER	N-CA-C	-6.08	99.44	108.99
8	N	1018	GLU	CA-C-N	6.08	128.35	120.44
8	N	1018	GLU	C-N-CA	6.08	128.35	120.44
9	Q	710	ASN	CB-CA-C	-6.08	100.70	110.79
7	O	519	ASP	CA-CB-CG	6.08	118.68	112.60
8	N	516	CYS	N-CA-C	-6.08	97.85	110.80
8	N	608	ILE	N-CA-CB	6.08	121.26	111.23
9	Q	294	MET	O-C-N	-6.08	114.26	122.41
9	R	390	LEU	N-CA-C	-6.08	104.73	111.36
9	R	539	ALA	CB-CA-C	-6.08	100.70	110.79
2	0	787	ARG	CA-C-N	6.08	129.50	120.87
2	0	787	ARG	C-N-CA	6.08	129.50	120.87
3	1	1264	SER	CA-C-N	6.08	128.22	120.56
3	1	1264	SER	C-N-CA	6.08	128.22	120.56
9	S	717	LEU	O-C-N	6.08	128.56	122.12
9	T	127	GLN	CA-C-N	6.08	128.75	120.54
9	T	127	GLN	C-N-CA	6.08	128.75	120.54
3	Z	1323	TYR	CB-CA-C	-6.08	100.70	110.79
7	O	166	GLN	N-CA-C	6.08	117.90	111.28
8	P	17	HIS	ND1-CE1-NE2	6.08	114.48	108.40
8	P	1538	ASP	CA-CB-CG	6.08	118.68	112.60
3	Z	213	THR	CA-C-N	6.08	130.93	121.76
3	Z	213	THR	C-N-CA	6.08	130.93	121.76
9	R	828	THR	CA-C-N	6.08	128.42	120.28
9	R	828	THR	C-N-CA	6.08	128.42	120.28
3	1	745	ILE	CA-C-N	6.08	128.42	120.28
3	1	745	ILE	C-N-CA	6.08	128.42	120.28
3	1	927	HIS	CE1-NE2-CD2	-6.08	102.92	109.00
7	O	13	ARG	CA-C-N	6.08	128.42	120.28
7	O	13	ARG	C-N-CA	6.08	128.42	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	1430	LEU	N-CA-C	6.07	118.69	111.71
8	N	1154	GLU	N-CA-CB	6.07	119.58	110.53
8	N	1161	PRO	CA-C-N	6.07	128.91	120.29
8	N	1161	PRO	C-N-CA	6.07	128.91	120.29
8	N	1332	ILE	CB-CA-C	-6.07	104.38	112.46
2	0	99	LYS	O-C-N	-6.07	115.38	121.27
8	P	564	LEU	CA-C-O	6.07	126.99	120.55
9	T	49	LEU	CA-C-N	6.07	128.74	120.54
9	T	49	LEU	C-N-CA	6.07	128.74	120.54
3	1	731	PHE	N-CA-C	-6.07	98.38	108.34
8	P	643	GLU	O-C-N	-6.07	115.68	122.12
2	Y	763	ASP	CA-C-N	6.07	132.90	121.97
2	Y	763	ASP	C-N-CA	6.07	132.90	121.97
3	Z	884	ILE	O-C-N	-6.07	115.98	121.87
8	N	643	GLU	O-C-N	-6.07	115.69	122.12
8	N	1309	ARG	CA-C-N	6.07	125.79	119.05
8	N	1309	ARG	C-N-CA	6.07	125.79	119.05
3	1	884	ILE	O-C-N	-6.07	115.98	121.87
11	X	290	HIS	N-CA-C	-6.07	104.50	113.61
3	Z	536	HIS	CB-CA-C	-6.07	100.36	110.19
3	1	196	GLU	CB-CG-CD	-6.07	102.28	112.60
4	A	661	LYS	O-C-N	-6.07	115.23	122.15
7	M	348	LEU	CA-C-N	6.07	129.98	121.24
7	M	348	LEU	C-N-CA	6.07	129.98	121.24
7	M	1019	ILE	CA-C-N	6.07	128.69	120.38
7	M	1019	ILE	C-N-CA	6.07	128.69	120.38
7	M	1571	GLN	O-C-N	6.07	129.81	122.35
8	N	680	ASP	CA-C-N	6.07	128.33	120.44
8	N	680	ASP	C-N-CA	6.07	128.33	120.44
9	R	700	ALA	CA-C-N	6.07	126.67	120.00
9	R	700	ALA	C-N-CA	6.07	126.67	120.00
7	O	1403	SER	CA-C-N	6.07	128.41	120.28
7	O	1403	SER	C-N-CA	6.07	128.41	120.28
8	P	1161	PRO	CA-C-N	6.07	128.91	120.29
8	P	1161	PRO	C-N-CA	6.07	128.91	120.29
7	M	26	LYS	N-CA-C	6.07	117.97	111.36
7	O	43	LYS	CA-CB-CG	6.07	126.23	114.10
7	O	1264	LEU	CA-C-N	6.07	129.22	120.79
7	O	1264	LEU	C-N-CA	6.07	129.22	120.79
11	X	270	ALA	N-CA-CB	6.07	119.50	110.40
2	Y	1134	SER	N-CA-C	-6.06	105.92	113.38
8	N	539	GLN	CA-C-N	6.06	132.06	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	539	GLN	C-N-CA	6.06	132.06	122.60
9	Q	302	VAL	CA-C-N	6.06	129.53	120.31
9	Q	302	VAL	C-N-CA	6.06	129.53	120.31
7	M	1264	LEU	CA-C-N	6.06	129.22	120.79
7	M	1264	LEU	C-N-CA	6.06	129.22	120.79
2	0	684	PHE	CA-C-O	6.06	127.39	120.90
4	G	661	LYS	O-C-N	-6.06	115.24	122.15
7	O	26	LYS	N-CA-C	6.06	117.97	111.36
9	T	510	LEU	CA-C-N	6.06	128.40	120.28
9	T	510	LEU	C-N-CA	6.06	128.40	120.28
2	Y	176	PHE	CA-C-N	6.06	125.95	119.28
2	Y	176	PHE	C-N-CA	6.06	125.95	119.28
3	1	438	ILE	CA-C-O	6.06	127.76	120.67
6	I	352	VAL	CA-C-N	6.06	128.40	120.28
6	I	352	VAL	C-N-CA	6.06	128.40	120.28
7	O	1005	PHE	CA-CB-CG	6.06	119.86	113.80
3	Z	1382	TYR	CB-CG-CD1	-6.06	111.71	120.80
8	N	850	ASN	CB-CG-ND2	6.06	125.49	116.40
8	N	1327	ARG	NE-CZ-NH2	6.06	124.65	119.20
8	N	1617	ILE	O-C-N	6.06	127.23	121.11
2	0	523	SER	CA-C-O	-6.06	115.13	121.55
2	0	1138	GLU	CA-C-N	6.06	128.76	120.46
2	0	1138	GLU	C-N-CA	6.06	128.76	120.46
3	1	1271	ARG	N-CA-C	6.06	117.55	111.07
4	J	681	SER	N-CA-CB	6.06	119.03	110.12
4	J	776	PHE	CA-CB-CG	6.06	119.86	113.80
9	S	611	LEU	CA-C-N	6.06	130.96	122.36
9	S	611	LEU	C-N-CA	6.06	130.96	122.36
2	Y	297	HIS	ND1-CE1-NE2	6.06	114.46	108.40
2	Y	787	ARG	CA-C-N	6.06	129.47	120.87
2	Y	787	ARG	C-N-CA	6.06	129.47	120.87
8	N	1026	THR	CA-C-O	6.06	127.39	120.00
2	0	203	VAL	N-CA-C	-6.06	99.69	108.17
3	1	536	HIS	CB-CA-C	-6.06	100.38	110.19
9	S	710	ASN	CB-CA-C	-6.06	100.73	110.79
7	M	13	ARG	CA-C-N	6.06	128.40	120.28
7	M	13	ARG	C-N-CA	6.06	128.40	120.28
7	M	1671	VAL	N-CA-CB	6.06	118.78	110.54
8	N	1093	ASN	CA-C-N	6.06	129.00	120.28
8	N	1093	ASN	C-N-CA	6.06	129.00	120.28
7	O	431	PHE	N-CA-C	-6.06	104.37	110.97
8	N	111	HIS	CG-CD2-NE2	6.05	113.25	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	835	LYS	CA-C-O	-6.05	113.26	120.10
8	P	808	THR	CA-C-N	6.05	127.41	119.84
8	P	808	THR	C-N-CA	6.05	127.41	119.84
7	M	1029	SER	N-CA-CB	6.05	120.72	110.49
9	Q	303	ASN	CA-CB-CG	6.05	118.65	112.60
7	O	218	HIS	O-C-N	6.05	128.54	122.12
9	S	753	ALA	O-C-N	-6.05	115.70	122.12
2	Y	393	ILE	O-C-N	6.05	129.47	122.99
2	Y	830	SER	N-CA-C	-6.05	97.91	110.80
2	Y	1424	ASN	CA-C-N	6.05	128.31	120.44
2	Y	1424	ASN	C-N-CA	6.05	128.31	120.44
3	Z	1303	ALA	N-CA-C	6.05	118.82	110.35
6	F	379	LEU	CA-C-N	6.05	128.67	120.44
6	F	379	LEU	C-N-CA	6.05	128.67	120.44
8	N	1343	VAL	O-C-N	-6.05	115.78	122.07
9	R	612	HIS	CE1-NE2-CD2	-6.05	102.95	109.00
2	0	831	LYS	N-CA-C	6.05	117.34	108.14
2	0	911	ASN	N-CA-C	6.05	117.96	111.36
9	S	565	GLY	O-C-N	-6.05	115.72	121.77
3	Z	1356	ASP	CA-C-N	6.05	128.39	120.28
3	Z	1356	ASP	C-N-CA	6.05	128.39	120.28
7	M	237	PHE	CA-CB-CG	-6.05	107.75	113.80
7	M	1542	ASN	N-CA-CB	6.05	121.11	111.91
9	Q	447	ASP	CA-CB-CG	-6.05	106.55	112.60
9	R	291	LYS	CA-C-N	6.05	129.50	120.31
9	R	291	LYS	C-N-CA	6.05	129.50	120.31
8	P	733	ARG	NE-CZ-NH2	-6.05	113.76	119.20
9	S	303	ASN	CA-CB-CG	6.05	118.65	112.60
3	Z	196	GLU	CB-CG-CD	-6.05	102.32	112.60
3	Z	564	THR	N-CA-C	-6.05	106.88	114.56
8	N	1134	TRP	CA-C-N	6.05	126.36	119.83
8	N	1134	TRP	C-N-CA	6.05	126.36	119.83
9	S	332	PRO	CA-C-N	6.05	129.01	120.42
9	S	332	PRO	C-N-CA	6.05	129.01	120.42
2	Y	1463	ARG	N-CA-C	-6.05	105.20	113.30
7	M	166	GLN	N-CA-C	6.05	117.87	111.28
7	O	1219	VAL	CA-C-O	-6.05	111.85	119.95
8	P	1343	VAL	O-C-N	-6.05	115.78	122.07
3	Z	1221	ARG	O-C-N	-6.04	115.71	122.12
6	F	344	LEU	N-CA-C	-6.04	105.81	113.43
9	S	447	ASP	CA-CB-CG	-6.04	106.56	112.60
2	Y	1378	VAL	N-CA-C	-6.04	107.24	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	321	ALA	N-CA-C	6.04	118.83	111.82
7	M	43	LYS	CA-CB-CG	6.04	126.19	114.10
8	N	440	ILE	CA-C-O	6.04	122.74	118.69
2	0	385	LYS	N-CA-C	-6.04	105.21	114.16
8	P	850	ASN	CB-CG-ND2	6.04	125.46	116.40
8	P	1281	MET	N-CA-C	6.04	117.54	111.07
3	Z	1017	ASP	CB-CA-C	-6.04	101.39	110.88
7	M	467	LEU	N-CA-CB	6.04	120.70	110.49
7	M	1222	ASN	OD1-CG-ND2	-6.04	116.56	122.60
5	H	348	ILE	CB-CA-C	-6.04	103.90	110.85
8	P	166	ASN	CA-CB-CG	-6.04	106.56	112.60
2	Y	1188	GLU	N-CA-CB	6.04	119.00	110.12
2	Y	1329	ASP	N-CA-C	-6.04	103.83	111.92
2	Y	829	ILE	N-CA-C	-6.04	106.85	111.62
3	Z	1017	ASP	CA-C-N	6.04	128.37	120.28
3	Z	1017	ASP	C-N-CA	6.04	128.37	120.28
6	C	316	LEU	CA-C-O	6.04	126.82	120.42
4	D	776	PHE	CA-CB-CG	6.04	119.84	113.80
9	T	463	GLN	CA-C-N	6.04	128.37	120.28
9	T	463	GLN	C-N-CA	6.04	128.37	120.28
3	1	1382	TYR	CB-CG-CD1	-6.04	111.75	120.80
11	X	355	TRP	CB-CG-CD1	-6.04	117.84	126.90
8	N	443	ILE	CA-C-N	6.04	128.86	120.29
8	N	443	ILE	C-N-CA	6.04	128.86	120.29
2	0	830	SER	N-CA-C	-6.04	97.95	110.80
6	I	316	LEU	CA-C-O	6.04	126.82	120.42
8	P	1093	ASN	CA-C-N	6.04	128.97	120.28
8	P	1093	ASN	C-N-CA	6.04	128.97	120.28
3	Z	899	ALA	CA-C-N	6.03	128.28	120.44
3	Z	899	ALA	C-N-CA	6.03	128.28	120.44
7	M	763	HIS	CE1-NE2-CD2	-6.03	102.97	109.00
2	0	1188	GLU	N-CA-CB	6.03	118.99	110.12
7	O	108	LEU	CA-C-O	-6.03	114.16	120.55
8	N	1046	LYS	CA-C-O	-6.03	114.16	120.55
7	M	48	ARG	NH1-CZ-NH2	-6.03	111.46	119.30
2	0	1213	SER	CA-C-N	6.03	128.36	120.28
2	0	1213	SER	C-N-CA	6.03	128.36	120.28
4	J	694	ASP	CA-CB-CG	6.03	118.63	112.60
7	O	48	ARG	NH1-CZ-NH2	-6.03	111.46	119.30
7	O	348	LEU	CA-C-N	6.03	129.92	121.24
7	O	348	LEU	C-N-CA	6.03	129.92	121.24
7	O	1047	SER	CA-C-O	6.03	127.90	121.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	213	PHE	CA-CB-CG	-6.03	107.77	113.80
4	D	694	ASP	CA-CB-CG	6.03	118.63	112.60
3	1	888	LEU	N-CA-C	6.03	117.52	111.07
7	O	1019	ILE	CA-C-N	6.03	128.64	120.38
7	O	1019	ILE	C-N-CA	6.03	128.64	120.38
3	Z	882	ASP	CA-CB-CG	6.03	118.63	112.60
7	M	218	HIS	O-C-N	6.03	128.51	122.12
7	M	1030	ASN	N-CA-C	-6.03	105.91	113.20
9	Q	251	ALA	CB-CA-C	-6.03	100.60	110.85
9	R	714	CYS	CB-CA-C	-6.03	101.42	110.88
11	V	270	ALA	N-CA-CB	6.03	119.44	110.40
3	1	1017	ASP	CA-C-N	6.03	128.36	120.28
3	1	1017	ASP	C-N-CA	6.03	128.36	120.28
6	L	344	LEU	N-CA-C	-6.03	105.84	113.43
7	O	563	SER	O-C-N	6.03	128.51	122.12
10	W	351	LYS	N-CA-C	-6.03	104.57	112.41
7	M	1403	SER	CA-C-N	6.03	128.35	120.28
7	M	1403	SER	C-N-CA	6.03	128.35	120.28
8	N	564	LEU	CA-C-O	6.03	126.94	120.55
9	R	463	GLN	CA-C-N	6.03	128.35	120.28
9	R	463	GLN	C-N-CA	6.03	128.35	120.28
2	0	356	ILE	O-C-N	6.03	130.10	122.57
9	T	714	CYS	CB-CA-C	-6.03	101.42	110.88
8	N	1281	MET	N-CA-C	6.02	117.52	111.07
8	P	784	THR	CA-CB-OG1	6.02	118.64	109.60
3	Z	886	ASN	CA-C-N	6.02	128.97	120.42
3	Z	886	ASN	C-N-CA	6.02	128.97	120.42
7	M	519	ASP	CA-CB-CG	6.02	118.62	112.60
9	Q	611	LEU	CA-C-N	6.02	130.91	122.36
9	Q	611	LEU	C-N-CA	6.02	130.91	122.36
3	1	1356	ASP	CA-C-N	6.02	128.35	120.28
3	1	1356	ASP	C-N-CA	6.02	128.35	120.28
7	O	1542	ASN	N-CA-CB	6.02	121.06	111.91
9	R	366	SER	CA-C-O	-6.02	114.50	120.82
5	H	471	LYS	O-C-N	-6.02	113.64	122.43
7	O	1592	ALA	N-CA-C	6.02	118.32	110.43
2	Y	491	ARG	N-CA-C	-6.02	104.58	112.41
3	Z	297	SER	N-CA-CB	6.02	120.66	110.49
6	C	352	VAL	CA-C-N	6.02	128.34	120.28
6	C	352	VAL	C-N-CA	6.02	128.34	120.28
7	M	1521	THR	N-CA-CB	6.02	118.97	110.12
7	O	467	LEU	N-CA-CB	6.02	120.66	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	1029	SER	N-CA-CB	6.02	120.67	110.49
8	P	440	ILE	CA-C-O	6.02	122.72	118.69
8	P	706	THR	CA-CB-OG1	6.02	118.63	109.60
7	M	363	ASP	CA-CB-CG	-6.02	106.58	112.60
8	N	784	THR	CA-CB-OG1	6.02	118.62	109.60
2	0	297	HIS	ND1-CE1-NE2	6.02	114.42	108.40
3	1	195	ASP	CA-C-O	6.02	127.23	119.95
3	1	409	ILE	N-CA-C	-6.02	99.81	108.48
3	1	951	VAL	CA-C-N	6.02	128.34	120.28
3	1	951	VAL	C-N-CA	6.02	128.34	120.28
3	1	1123	PHE	CB-CA-C	-6.02	100.42	110.29
7	O	1521	THR	N-CA-CB	6.02	118.97	110.12
9	S	223	ASN	O-C-N	6.02	128.50	122.12
9	T	771	ILE	N-CA-CB	6.02	114.29	110.50
3	Z	195	ASP	CA-C-O	6.02	127.23	119.95
3	Z	1123	PHE	CB-CA-C	-6.02	100.42	110.29
2	0	1170	ARG	N-CA-C	-6.02	103.09	110.61
7	O	144	ILE	O-C-N	-6.02	116.03	121.87
8	P	1018	GLU	CA-C-N	6.02	128.26	120.44
8	P	1018	GLU	C-N-CA	6.02	128.26	120.44
9	T	291	LYS	CA-C-N	6.02	129.45	120.31
9	T	291	LYS	C-N-CA	6.02	129.45	120.31
5	B	363	GLN	N-CA-C	6.01	117.83	111.28
2	0	829	ILE	N-CA-C	-6.01	106.87	111.62
7	O	73	GLU	CA-C-N	6.01	128.34	120.28
7	O	73	GLU	C-N-CA	6.01	128.34	120.28
7	O	1571	GLN	O-C-N	6.01	129.75	122.35
3	1	1017	ASP	CB-CA-C	-6.01	101.44	110.88
8	N	1255	ILE	CA-C-O	-6.01	114.80	121.17
2	0	763	ASP	CA-C-N	6.01	132.79	121.97
2	0	763	ASP	C-N-CA	6.01	132.79	121.97
5	H	363	GLN	N-CA-C	6.01	117.83	111.28
5	K	463	LEU	N-CA-CB	6.01	120.37	110.39
9	T	366	SER	CA-C-O	-6.01	114.51	120.82
3	Z	1230	ASP	N-CA-C	-6.01	98.00	110.80
7	M	144	ILE	O-C-N	-6.01	116.04	121.87
7	M	1005	PHE	CA-CB-CG	6.01	119.81	113.80
7	M	1219	VAL	CA-C-O	-6.01	111.90	119.95
3	1	1303	ALA	N-CA-C	6.01	118.76	110.35
7	O	1030	ASN	N-CA-C	-6.01	105.93	113.20
9	S	366	SER	N-CA-C	-6.01	104.73	111.28
7	M	943	ARG	N-CA-CB	6.01	119.07	110.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	0	1329	ASP	N-CA-C	-6.01	103.87	111.92
7	O	1241	LYS	N-CA-C	6.01	117.91	111.36
9	R	771	ILE	N-CA-CB	6.00	114.28	110.50
3	1	886	ASN	CA-C-N	6.00	128.95	120.42
3	1	886	ASN	C-N-CA	6.00	128.95	120.42
8	P	507	PRO	CA-C-O	-6.00	111.85	120.56
7	M	431	PHE	N-CA-C	-6.00	104.43	110.97
9	R	280	GLN	CA-C-N	6.00	128.33	120.28
9	R	280	GLN	C-N-CA	6.00	128.33	120.28
10	U	351	LYS	N-CA-C	-6.00	104.61	112.41
3	1	536	HIS	CA-C-O	6.00	126.78	120.36
4	G	658	TYR	O-C-N	-6.00	114.17	122.46
9	S	251	ALA	CB-CA-C	-6.00	100.64	110.85
8	N	213	PHE	CA-CB-CG	-6.00	107.80	113.80
8	N	507	PRO	CA-C-O	-6.00	111.86	120.56
2	0	1141	LEU	N-CA-C	-6.00	104.74	111.28
3	1	564	THR	N-CA-C	-6.00	106.94	114.56
3	1	935	TYR	CA-C-O	-6.00	114.19	120.55
8	N	558	LYS	N-CA-CB	6.00	119.99	110.57
2	Y	911	ASN	N-CA-C	6.00	117.90	111.36
2	Y	1170	ARG	N-CA-C	-6.00	103.11	110.61
8	N	1153	ASN	N-CA-C	6.00	119.86	112.54
2	0	1168	GLN	N-CA-C	-6.00	105.72	113.16
8	P	1282	ASN	N-CA-C	-6.00	104.82	111.36
9	T	280	GLN	CA-C-N	6.00	128.32	120.28
9	T	280	GLN	C-N-CA	6.00	128.32	120.28
2	Y	1011	ARG	NE-CZ-NH2	6.00	124.60	119.20
3	Z	536	HIS	CA-C-O	6.00	126.78	120.36
3	Z	966	PHE	CA-C-O	-6.00	114.52	120.82
7	M	1592	ALA	N-CA-C	6.00	118.29	110.43
8	N	150	GLN	N-CA-CB	6.00	118.93	110.12
8	N	1079	VAL	N-CA-C	6.00	116.74	110.62
3	1	430	VAL	O-C-N	-6.00	116.39	123.05
8	P	1074	LEU	N-CA-CB	6.00	118.70	110.01
9	T	252	GLN	CB-CG-CD	-6.00	102.41	112.60
3	Z	409	ILE	N-CA-C	-5.99	99.85	108.48
4	A	774	ASN	O-C-N	5.99	128.56	122.09
7	M	73	GLU	CA-C-N	5.99	128.31	120.28
7	M	73	GLU	C-N-CA	5.99	128.31	120.28
8	N	706	THR	CA-CB-OG1	5.99	118.59	109.60
2	0	967	LEU	O-C-N	-5.99	115.32	122.15
3	1	1016	ASP	CA-C-N	5.99	128.23	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1	1016	ASP	C-N-CA	5.99	128.23	120.44
7	O	126	GLU	N-CA-C	-5.99	105.89	112.72
8	P	744	LEU	CA-C-N	5.99	128.23	120.44
8	P	744	LEU	C-N-CA	5.99	128.23	120.44
9	S	551	ARG	NE-CZ-NH2	-5.99	113.81	119.20
9	T	836	ASP	CA-CB-CG	5.99	118.59	112.60
8	N	1464	GLY	CA-C-N	5.99	128.63	120.54
8	N	1464	GLY	C-N-CA	5.99	128.63	120.54
3	1	903	CYS	CA-C-O	-5.99	114.20	120.55
7	O	363	ASP	CA-CB-CG	-5.99	106.61	112.60
8	P	150	GLN	N-CA-CB	5.99	118.93	110.12
4	A	658	TYR	O-C-N	-5.99	114.19	122.46
7	M	563	SER	O-C-N	5.99	128.47	122.12
7	M	1104	ASN	CA-CB-CG	-5.99	106.61	112.60
8	N	1603	SER	O-C-N	5.99	128.47	122.12
2	0	1060	TYR	O-C-N	-5.99	114.86	120.55
2	0	1094	ARG	CA-C-N	5.99	128.31	120.28
2	0	1094	ARG	C-N-CA	5.99	128.31	120.28
2	0	1124	SER	N-CA-C	-5.99	106.01	113.38
7	O	1505	HIS	CA-CB-CG	5.99	119.79	113.80
8	P	91	GLN	N-CA-C	-5.99	106.13	113.50
8	P	322	HIS	CA-C-N	5.99	128.23	120.44
8	P	322	HIS	C-N-CA	5.99	128.23	120.44
3	Z	1016	ASP	CA-C-N	5.99	128.22	120.44
3	Z	1016	ASP	C-N-CA	5.99	128.22	120.44
5	B	454	GLY	CA-C-N	5.99	129.12	120.38
5	B	454	GLY	C-N-CA	5.99	129.12	120.38
8	N	67	ASP	CB-CA-C	-5.99	99.41	109.53
8	N	91	GLN	N-CA-C	-5.99	106.13	113.50
8	N	808	THR	CA-C-N	5.99	127.33	119.84
8	N	808	THR	C-N-CA	5.99	127.33	119.84
8	N	1074	LEU	N-CA-CB	5.99	118.69	110.01
8	N	1309	ARG	NE-CZ-NH2	-5.99	113.81	119.20
9	Q	565	GLY	O-C-N	-5.99	115.78	121.77
9	Q	753	ALA	O-C-N	-5.99	115.77	122.12
9	R	211	LYS	N-CA-CB	5.99	118.92	110.12
5	K	375	ILE	N-CA-CB	5.99	117.56	110.55
8	P	893	TYR	CA-C-O	5.99	126.80	120.33
8	N	733	ARG	NE-CZ-NH2	-5.99	113.81	119.20
7	O	194	SER	CA-C-N	5.99	128.22	120.44
7	O	194	SER	C-N-CA	5.99	128.22	120.44
9	T	540	ASN	CA-C-N	5.99	128.30	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	T	540	ASN	C-N-CA	5.99	128.30	120.28
3	Z	708	ARG	CA-C-N	5.99	128.22	120.44
3	Z	708	ARG	C-N-CA	5.99	128.22	120.44
4	A	742	GLN	CA-C-N	5.99	129.61	121.05
4	A	742	GLN	C-N-CA	5.99	129.61	121.05
5	E	371	GLN	O-C-N	-5.99	115.78	122.12
9	Q	551	ARG	NE-CZ-NH2	-5.99	113.81	119.20
3	1	882	ASP	CA-CB-CG	5.99	118.58	112.60
4	J	665	TRP	N-CA-C	5.99	117.60	111.14
9	T	700	ALA	CA-C-N	5.99	126.58	120.00
9	T	700	ALA	C-N-CA	5.99	126.58	120.00
2	Y	829	ILE	CA-C-O	-5.98	115.47	120.80
3	Z	430	VAL	O-C-N	-5.98	116.41	123.05
7	M	738	THR	CA-C-N	5.98	131.16	122.36
7	M	738	THR	C-N-CA	5.98	131.16	122.36
7	M	1015	ARG	NE-CZ-NH1	-5.98	115.52	121.50
8	N	17	HIS	ND1-CE1-NE2	5.98	114.38	108.40
3	1	1230	ASP	N-CA-C	-5.98	98.06	110.80
6	L	301	HIS	CA-C-O	5.98	126.73	119.31
7	O	1453	ARG	NE-CZ-NH2	5.98	124.58	119.20
6	C	387	TYR	N-CA-CB	5.98	119.55	110.28
8	P	1079	VAL	N-CA-C	5.98	116.72	110.62
9	S	352	VAL	CA-C-N	5.98	128.78	120.29
9	S	352	VAL	C-N-CA	5.98	128.78	120.29
3	1	351	ARG	NE-CZ-NH1	5.98	127.48	121.50
8	N	129	PHE	N-CA-C	5.98	117.47	111.07
2	0	829	ILE	CA-C-O	-5.98	115.48	120.80
3	1	297	SER	N-CA-CB	5.98	120.59	110.49
7	O	287	GLY	CA-C-N	5.98	128.78	120.29
7	O	287	GLY	C-N-CA	5.98	128.78	120.29
2	Y	1141	LEU	N-CA-C	-5.98	104.77	111.28
3	Z	438	ILE	CA-C-O	5.98	127.66	120.67
7	M	287	GLY	CA-C-N	5.98	128.78	120.29
7	M	287	GLY	C-N-CA	5.98	128.78	120.29
8	N	1282	ASN	N-CA-C	-5.98	104.85	111.36
6	L	397	ALA	CA-C-N	5.98	128.09	120.56
6	L	397	ALA	C-N-CA	5.98	128.09	120.56
8	P	1153	ASN	N-CA-C	5.98	119.83	112.54
3	Z	232	ILE	N-CA-C	-5.97	99.03	107.75
7	M	1240	HIS	CE1-NE2-CD2	-5.97	103.03	109.00
3	1	192	HIS	ND1-CE1-NE2	5.97	114.38	108.40
3	1	198	GLU	CA-C-N	5.97	130.93	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1	198	GLU	C-N-CA	5.97	130.93	122.09
8	P	1060	LEU	N-CA-C	5.97	118.47	110.35
7	M	40	ASP	CA-CB-CG	5.97	118.57	112.60
9	Q	460	GLU	N-CA-CB	5.97	118.90	110.12
2	0	1134	SER	N-CA-C	-5.97	105.99	113.28
7	O	943	ARG	N-CA-CB	5.97	119.02	110.06
9	S	731	GLN	CA-C-N	5.97	128.28	120.28
9	S	731	GLN	C-N-CA	5.97	128.28	120.28
9	T	549	ASP	CA-C-N	5.97	125.85	119.28
9	T	549	ASP	C-N-CA	5.97	125.85	119.28
2	Y	1094	ARG	CA-C-N	5.97	128.28	120.28
2	Y	1094	ARG	C-N-CA	5.97	128.28	120.28
3	Z	942	ILE	CA-C-N	5.97	130.96	120.87
3	Z	942	ILE	C-N-CA	5.97	130.96	120.87
3	1	942	ILE	CA-C-N	5.97	130.96	120.87
3	1	942	ILE	C-N-CA	5.97	130.96	120.87
9	S	627	ALA	CA-C-N	5.97	128.28	120.28
9	S	627	ALA	C-N-CA	5.97	128.28	120.28
7	M	782	LYS	CA-C-N	5.97	128.64	120.46
7	M	782	LYS	C-N-CA	5.97	128.64	120.46
8	P	1617	ILE	O-C-N	5.97	127.14	121.11
8	P	111	HIS	CG-CD2-NE2	5.97	113.17	107.20
8	P	830	THR	O-C-N	-5.97	115.79	122.12
5	B	348	ILE	CB-CA-C	-5.97	103.99	110.85
5	B	471	LYS	O-C-N	-5.97	113.72	122.43
4	G	742	GLN	CA-C-N	5.97	129.58	121.05
4	G	742	GLN	C-N-CA	5.97	129.58	121.05
5	K	398	ILE	N-CA-C	-5.97	103.44	111.44
8	P	1134	TRP	CA-C-N	5.97	126.27	119.83
8	P	1134	TRP	C-N-CA	5.97	126.27	119.83
9	S	658	ASN	OD1-CG-ND2	-5.97	116.63	122.60
2	Y	121	LEU	N-CA-C	-5.96	105.49	112.89
3	Z	444	GLY	O-C-N	5.96	130.98	122.81
4	D	742	GLN	CB-CG-CD	-5.96	102.46	112.60
9	Q	352	VAL	CA-C-N	5.96	128.76	120.29
9	Q	352	VAL	C-N-CA	5.96	128.76	120.29
9	Q	627	ALA	CA-C-N	5.96	128.27	120.28
9	Q	627	ALA	C-N-CA	5.96	128.27	120.28
9	R	252	GLN	CB-CG-CD	-5.96	102.46	112.60
8	P	1255	ILE	CA-C-O	-5.96	114.85	121.17
8	P	1464	GLY	CA-C-N	5.96	128.59	120.54
8	P	1464	GLY	C-N-CA	5.96	128.59	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z	903	CYS	CA-C-O	-5.96	114.23	120.55
9	R	812	GLN	CB-CA-C	-5.96	100.71	110.85
6	F	301	HIS	CA-C-O	5.96	126.70	119.31
3	1	1284	PRO	N-CA-CB	5.96	106.70	102.65
7	O	107	PHE	CA-C-N	5.96	128.27	120.28
7	O	107	PHE	C-N-CA	5.96	128.27	120.28
9	T	812	GLN	CB-CA-C	-5.96	100.72	110.85
3	Z	1133	CYS	CA-C-O	-5.96	114.23	120.55
2	0	121	LEU	N-CA-C	-5.96	105.50	112.89
9	S	294	MET	O-C-N	-5.96	114.42	122.41
3	Z	723	ILE	CB-CA-C	5.96	117.48	110.93
7	M	482	PHE	CB-CG-CD1	5.96	130.83	120.70
7	O	738	THR	CA-C-N	5.96	131.12	122.36
7	O	738	THR	C-N-CA	5.96	131.12	122.36
7	O	1104	ASN	CA-CB-CG	-5.96	106.64	112.60
8	P	129	PHE	N-CA-C	5.96	117.44	111.07
2	Y	1124	SER	N-CA-C	-5.96	106.05	113.38
2	Y	1160	HIS	CG-CD2-NE2	5.96	113.16	107.20
5	E	463	LEU	N-CA-CB	5.96	120.28	110.39
8	N	268	THR	CA-C-O	-5.96	114.24	120.55
9	R	549	ASP	CA-C-N	5.96	125.83	119.28
9	R	549	ASP	C-N-CA	5.96	125.83	119.28
2	0	1004	PHE	CA-C-N	5.96	128.26	120.28
2	0	1004	PHE	C-N-CA	5.96	128.26	120.28
5	H	454	GLY	CA-C-N	5.96	129.08	120.38
5	H	454	GLY	C-N-CA	5.96	129.08	120.38
4	J	713	ASN	CA-CB-CG	-5.96	106.64	112.60
7	O	977	ARG	CA-C-N	5.96	128.88	120.42
7	O	977	ARG	C-N-CA	5.96	128.88	120.42
8	P	1645	LYS	N-CA-C	5.96	117.77	111.28
9	T	211	LYS	N-CA-CB	5.96	118.88	110.12
2	Y	1305	SER	CA-C-O	-5.96	114.11	120.42
2	0	1285	ILE	N-CA-C	-5.96	96.95	109.34
3	1	183	TRP	CA-C-N	5.96	130.02	121.50
3	1	183	TRP	C-N-CA	5.96	130.02	121.50
2	Y	922	PHE	CA-C-N	5.95	132.37	122.73
2	Y	922	PHE	C-N-CA	5.95	132.37	122.73
3	Z	1284	PRO	N-CA-CB	5.95	106.70	102.65
6	F	466	THR	N-CA-CB	5.95	118.97	110.16
7	M	251	ASP	CA-CB-CG	5.95	118.55	112.60
7	M	1505	HIS	CA-CB-CG	5.95	119.75	113.80
8	N	893	TYR	CA-C-O	5.95	126.76	120.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	R	636	ARG	NE-CZ-NH1	-5.95	115.55	121.50
3	1	444	GLY	O-C-N	5.95	130.97	122.81
5	K	298	SER	N-CA-C	-5.95	106.06	113.38
8	P	558	LYS	N-CA-CB	5.95	119.92	110.57
10	W	357	LYS	CA-C-O	5.95	127.18	119.98
7	O	207	MET	N-CA-CB	5.95	119.25	110.56
7	O	782	LYS	CA-C-N	5.95	128.61	120.46
7	O	782	LYS	C-N-CA	5.95	128.61	120.46
3	Z	888	LEU	N-CA-C	5.95	117.44	111.07
8	N	256	THR	N-CA-CB	5.95	119.20	110.57
2	0	393	ILE	O-C-N	5.95	129.36	122.99
8	P	1445	THR	CA-C-N	5.95	128.18	120.44
8	P	1445	THR	C-N-CA	5.95	128.18	120.44
2	Y	284	PHE	CA-CB-CG	5.95	119.75	113.80
8	N	1166	VAL	CA-C-O	5.95	127.16	120.85
7	O	1240	HIS	CE1-NE2-CD2	-5.95	103.05	109.00
8	P	256	THR	N-CA-CB	5.95	119.19	110.57
9	T	212	PHE	CA-C-N	5.95	128.25	120.28
9	T	212	PHE	C-N-CA	5.95	128.25	120.28
2	Y	148	PHE	CA-CB-CG	-5.95	107.85	113.80
3	Z	183	TRP	CA-C-N	5.95	130.00	121.50
3	Z	183	TRP	C-N-CA	5.95	130.00	121.50
7	M	207	MET	N-CA-CB	5.95	119.24	110.56
3	1	1133	CYS	CA-C-O	-5.95	114.25	120.55
7	O	40	ASP	CA-CB-CG	5.95	118.55	112.60
4	D	691	ASN	N-CA-C	-5.95	106.03	113.28
5	E	398	ILE	N-CA-C	-5.95	103.47	111.44
5	E	529	LYS	O-C-N	5.95	129.58	122.27
7	M	283	ALA	N-CA-C	5.95	117.76	111.28
7	M	1285	HIS	CA-CB-CG	5.95	119.75	113.80
9	Q	629	ARG	NE-CZ-NH2	-5.95	113.85	119.20
3	Z	935	TYR	CA-C-O	-5.94	114.25	120.55
8	N	166	ASN	CA-CB-CG	-5.94	106.66	112.60
2	Y	1060	TYR	O-C-N	-5.94	114.90	120.55
5	E	375	ILE	N-CA-CB	5.94	117.50	110.55
7	M	194	SER	CA-C-N	5.94	128.16	120.44
7	M	194	SER	C-N-CA	5.94	128.16	120.44
7	M	977	ARG	CA-C-N	5.94	128.86	120.42
7	M	977	ARG	C-N-CA	5.94	128.86	120.42
4	J	742	GLN	CB-CG-CD	-5.94	102.50	112.60
7	O	239	HIS	ND1-CE1-NE2	5.94	114.34	108.40
7	M	1023	LEU	N-CA-C	-5.94	104.81	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	574	HIS	CG-CD2-NE2	5.94	113.14	107.20
8	N	1060	LEU	N-CA-C	5.94	118.43	110.35
8	N	1445	THR	CA-C-N	5.94	128.16	120.44
8	N	1445	THR	C-N-CA	5.94	128.16	120.44
3	1	966	PHE	CA-C-O	-5.94	114.58	120.82
3	1	1243	ASP	CA-C-O	-5.94	113.14	119.97
6	L	454	ALA	CA-C-O	-5.94	113.39	120.10
4	A	775	THR	N-CA-C	-5.94	105.89	113.02
7	M	1262	PHE	CA-CB-CG	-5.94	107.86	113.80
2	Y	1004	PHE	CA-C-N	5.94	128.24	120.28
2	Y	1004	PHE	C-N-CA	5.94	128.24	120.28
3	Z	198	GLU	CA-C-N	5.94	130.88	122.09
3	Z	198	GLU	C-N-CA	5.94	130.88	122.09
8	N	994	ILE	CA-C-N	5.94	128.51	120.38
8	N	994	ILE	C-N-CA	5.94	128.51	120.38
8	N	1284	ILE	CA-C-N	5.94	128.24	120.28
8	N	1284	ILE	C-N-CA	5.94	128.24	120.28
2	0	491	ARG	N-CA-C	-5.94	104.69	112.41
2	0	1106	ASP	CA-C-N	5.94	128.72	120.29
2	0	1106	ASP	C-N-CA	5.94	128.72	120.29
3	1	708	ARG	CA-C-N	5.94	128.16	120.44
3	1	708	ARG	C-N-CA	5.94	128.16	120.44
5	K	404	ARG	CA-C-N	5.94	128.24	120.28
5	K	404	ARG	C-N-CA	5.94	128.24	120.28
8	N	1371	HIS	CA-CB-CG	5.94	119.74	113.80
2	Y	1059	TYR	CA-C-O	-5.93	111.85	119.80
2	Y	1168	GLN	N-CA-C	-5.93	105.80	113.16
6	F	270	PRO	CA-N-CD	-5.93	103.69	112.00
7	M	631	LEU	N-CA-CB	5.93	119.48	110.28
3	1	1378	PRO	CA-C-N	5.93	129.98	121.55
3	1	1378	PRO	C-N-CA	5.93	129.98	121.55
6	L	466	THR	N-CA-CB	5.93	118.94	110.16
7	O	1657	ASP	CA-C-N	5.93	125.81	119.28
7	O	1657	ASP	C-N-CA	5.93	125.81	119.28
8	P	1309	ARG	NE-CZ-NH2	-5.93	113.86	119.20
2	Y	899	MET	CG-SD-CE	-5.93	87.85	100.90
5	E	318	GLU	N-CA-C	5.93	117.71	110.41
9	Q	532	ILE	CA-C-O	5.93	125.37	119.97
9	R	464	ASN	CA-C-N	5.93	128.03	120.56
9	R	464	ASN	C-N-CA	5.93	128.03	120.56
2	0	899	MET	CG-SD-CE	-5.93	87.85	100.90
6	I	387	TYR	N-CA-CB	5.93	119.48	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z	582	THR	CA-C-N	5.93	126.04	119.87
3	Z	582	THR	C-N-CA	5.93	126.04	119.87
4	D	813	SER	CA-C-N	5.93	128.50	120.44
4	D	813	SER	C-N-CA	5.93	128.50	120.44
6	F	397	ALA	CA-C-N	5.93	128.03	120.56
6	F	397	ALA	C-N-CA	5.93	128.03	120.56
6	F	454	ALA	CA-C-O	-5.93	113.40	120.10
8	N	1037	PRO	CA-C-N	5.93	128.23	120.28
8	N	1037	PRO	C-N-CA	5.93	128.23	120.28
9	Q	533	ARG	CA-C-N	5.93	128.15	120.44
9	Q	533	ARG	C-N-CA	5.93	128.15	120.44
9	R	49	LEU	CA-C-N	5.93	128.54	120.54
9	R	49	LEU	C-N-CA	5.93	128.54	120.54
7	O	283	ALA	N-CA-C	5.93	117.74	111.28
8	P	1037	PRO	CA-C-N	5.93	128.22	120.28
8	P	1037	PRO	C-N-CA	5.93	128.22	120.28
9	S	533	ARG	CA-C-N	5.93	128.15	120.44
9	S	533	ARG	C-N-CA	5.93	128.15	120.44
2	Y	664	ASP	CA-CB-CG	-5.93	106.67	112.60
2	0	149	GLU	N-CA-C	-5.93	100.06	109.07
8	P	41	ARG	N-CA-CB	5.93	118.83	110.12
3	Z	1058	CYS	CA-C-N	5.93	128.71	120.29
3	Z	1058	CYS	C-N-CA	5.93	128.71	120.29
4	J	813	SER	CA-C-N	5.93	128.50	120.44
4	J	813	SER	C-N-CA	5.93	128.50	120.44
9	R	381	GLY	CA-C-O	5.92	126.32	122.23
3	1	899	ALA	CA-C-N	5.92	128.14	120.44
3	1	899	ALA	C-N-CA	5.92	128.14	120.44
5	K	529	LYS	O-C-N	5.92	129.56	122.27
7	O	763	HIS	CE1-NE2-CD2	-5.92	103.08	109.00
7	O	1262	PHE	CA-CB-CG	-5.92	107.88	113.80
8	P	413	GLU	CA-C-N	5.92	128.14	120.44
8	P	413	GLU	C-N-CA	5.92	128.14	120.44
9	S	460	GLU	N-CA-CB	5.92	118.83	110.12
2	Y	975	ILE	CA-C-O	-5.92	114.79	120.95
7	O	631	LEU	N-CA-CB	5.92	119.46	110.28
5	E	404	ARG	CA-C-N	5.92	128.21	120.28
5	E	404	ARG	C-N-CA	5.92	128.21	120.28
7	M	286	ILE	O-C-N	5.92	127.71	121.91
2	0	284	PHE	CA-CB-CG	5.92	119.72	113.80
2	Y	1106	ASP	CA-C-N	5.92	128.70	120.29
2	Y	1106	ASP	C-N-CA	5.92	128.70	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	286	ILE	O-C-N	5.92	127.71	121.91
8	P	184	ASP	CA-C-N	5.92	128.49	120.44
8	P	184	ASP	C-N-CA	5.92	128.49	120.44
7	M	107	PHE	CA-C-N	5.92	128.21	120.28
7	M	107	PHE	C-N-CA	5.92	128.21	120.28
2	0	1305	SER	CA-C-O	-5.92	114.15	120.42
3	1	723	ILE	CB-CA-C	5.92	117.44	110.93
3	1	851	ASP	N-CA-CB	5.92	119.45	110.28
8	P	1603	SER	O-C-N	5.92	128.39	122.12
5	E	298	SER	N-CA-C	-5.92	106.10	113.38
8	N	41	ARG	N-CA-CB	5.92	118.82	110.12
9	Q	366	SER	N-CA-C	-5.92	104.83	111.28
3	1	1307	VAL	N-CA-C	-5.92	105.95	111.45
5	K	375	ILE	CB-CA-C	-5.92	104.40	111.97
7	O	1	MET	CA-C-N	5.92	132.32	122.73
7	O	1	MET	C-N-CA	5.92	132.32	122.73
7	O	189	GLU	CA-C-N	5.92	128.21	120.28
7	O	189	GLU	C-N-CA	5.92	128.21	120.28
7	O	1199	ASP	O-C-N	-5.92	115.15	120.71
9	T	777	ILE	CA-C-N	5.92	128.46	120.65
9	T	777	ILE	C-N-CA	5.92	128.46	120.65
7	M	24	LEU	CA-C-N	5.92	128.21	120.28
7	M	24	LEU	C-N-CA	5.92	128.21	120.28
7	M	1244	ASN	CB-CG-OD1	5.92	132.63	120.80
2	0	1160	HIS	CG-CD2-NE2	5.92	113.11	107.20
3	1	813	ASN	OD1-CG-ND2	5.92	128.51	122.60
7	O	1355	SER	CB-CA-C	-5.92	100.97	110.79
2	Y	788	HIS	CG-CD2-NE2	5.91	113.11	107.20
3	Z	1378	PRO	CA-C-N	5.91	129.95	121.55
3	Z	1378	PRO	C-N-CA	5.91	129.95	121.55
9	Q	805	SER	N-CA-C	5.91	117.81	111.36
6	I	321	ALA	N-CA-C	5.91	118.68	111.82
7	O	109	ARG	O-C-N	5.91	128.16	122.07
7	O	1023	LEU	N-CA-C	-5.91	104.83	111.28
7	O	1244	ASN	CB-CG-OD1	5.91	132.63	120.80
9	S	456	ARG	CD-NE-CZ	-5.91	116.12	124.40
3	Z	1243	ASP	CA-C-O	-5.91	113.17	119.97
8	N	664	LEU	CA-C-N	5.91	127.48	120.09
8	N	664	LEU	C-N-CA	5.91	127.48	120.09
9	Q	271	VAL	N-CA-CB	5.91	117.47	110.55
2	0	458	GLU	CB-CA-C	-5.91	98.94	110.11
4	J	770	ASN	N-CA-CB	5.91	118.81	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	1209	PRO	O-C-N	-5.91	116.01	123.10
8	P	114	TYR	CA-C-O	-5.91	114.61	120.82
8	P	414	ASN	OD1-CG-ND2	5.91	128.51	122.60
2	Y	356	ILE	O-C-N	5.91	129.96	122.57
7	M	639	LEU	O-C-N	5.91	128.38	122.12
7	M	1241	LYS	N-CA-C	5.91	117.80	111.36
7	O	1429	ASP	CA-C-N	5.91	128.79	120.28
7	O	1429	ASP	C-N-CA	5.91	128.79	120.28
9	S	532	ILE	CA-C-O	5.91	125.35	119.97
9	T	51	ARG	CA-C-N	5.91	128.45	120.65
9	T	51	ARG	C-N-CA	5.91	128.45	120.65
9	T	751	LEU	CA-C-O	-5.91	113.17	119.97
8	N	830	THR	O-C-N	-5.91	115.86	122.12
8	N	1645	LYS	N-CA-C	5.91	117.72	111.28
9	T	381	GLY	CA-C-O	5.91	126.31	122.23
2	Y	902	SER	N-CA-C	5.91	117.80	111.36
2	Y	1467	SER	N-CA-CB	5.91	118.53	110.38
8	N	1042	SER	N-CA-C	-5.91	104.92	111.36
9	R	51	ARG	CA-C-N	5.91	128.45	120.65
9	R	51	ARG	C-N-CA	5.91	128.45	120.65
7	O	1015	ARG	NE-CZ-NH1	-5.91	115.59	121.50
9	S	805	SER	N-CA-C	5.91	117.80	111.36
7	M	1040	THR	N-CA-CB	5.90	120.46	110.49
7	M	1047	SER	CA-C-O	5.90	127.77	121.45
9	R	777	ILE	CA-C-N	5.90	128.44	120.65
9	R	777	ILE	C-N-CA	5.90	128.44	120.65
6	I	347	THR	CA-C-N	5.90	128.11	120.44
6	I	347	THR	C-N-CA	5.90	128.11	120.44
7	O	1125	SER	CA-C-N	5.90	125.91	119.89
7	O	1125	SER	C-N-CA	5.90	125.91	119.89
2	Y	312	VAL	N-CA-CB	5.90	120.13	111.52
2	Y	458	GLU	CB-CA-C	-5.90	98.96	110.11
2	Y	1285	ILE	N-CA-C	-5.90	97.07	109.34
3	Z	1388	HIS	CG-CD2-NE2	5.90	113.10	107.20
9	R	212	PHE	CA-C-N	5.90	128.19	120.28
9	R	212	PHE	C-N-CA	5.90	128.19	120.28
2	0	647	ILE	N-CA-C	-5.90	99.25	107.80
2	0	1059	TYR	CA-C-O	-5.90	111.89	119.80
8	P	994	ILE	CA-C-N	5.90	128.46	120.38
8	P	994	ILE	C-N-CA	5.90	128.46	120.38
9	S	303	ASN	CB-CG-ND2	-5.90	107.55	116.40
7	M	1453	ARG	NE-CZ-NH2	5.90	124.51	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	0	975	ILE	CA-C-O	-5.90	114.81	120.95
8	P	574	HIS	CG-CD2-NE2	5.90	113.10	107.20
3	Z	834	GLY	CA-C-N	5.90	128.21	120.60
3	Z	834	GLY	C-N-CA	5.90	128.21	120.60
7	M	1355	SER	CB-CA-C	-5.90	101.00	110.79
7	O	1528	VAL	CA-C-O	-5.90	114.82	120.95
2	0	363	GLN	N-CA-C	-5.90	105.74	113.17
3	1	378	LEU	CA-C-N	5.90	130.94	123.10
3	1	378	LEU	C-N-CA	5.90	130.94	123.10
7	O	769	ASP	CA-CB-CG	5.90	118.50	112.60
7	O	1285	HIS	CA-CB-CG	5.90	119.70	113.80
2	Y	149	GLU	N-CA-C	-5.89	100.11	109.07
4	D	696	SER	N-CA-C	-5.89	106.13	113.38
5	E	516	GLN	CB-CA-C	-5.89	101.62	110.88
9	Q	731	GLN	CA-C-N	5.89	128.18	120.28
9	Q	731	GLN	C-N-CA	5.89	128.18	120.28
9	R	639	ASP	O-C-N	5.89	128.37	122.12
2	0	1011	ARG	NE-CZ-NH2	5.89	124.50	119.20
4	J	691	ASN	N-CA-C	-5.89	106.09	113.28
9	S	422	ARG	NE-CZ-NH2	-5.89	113.89	119.20
9	T	137	ASP	CB-CA-C	-5.89	101.01	110.79
3	Z	1307	VAL	N-CA-C	-5.89	105.97	111.45
9	R	751	LEU	CA-C-O	-5.89	113.19	119.97
8	P	664	LEU	CA-C-N	5.89	127.45	120.09
8	P	664	LEU	C-N-CA	5.89	127.45	120.09
9	S	629	ARG	NE-CZ-NH2	-5.89	113.90	119.20
4	D	770	ASN	N-CA-CB	5.89	118.78	110.12
8	N	1573	PRO	N-CA-CB	5.89	108.57	103.27
2	0	1199	ILE	O-C-N	5.89	127.68	121.91
2	0	1467	SER	N-CA-CB	5.89	118.51	110.38
6	L	310	ARG	CA-C-O	-5.89	114.18	120.42
8	N	184	ASP	CA-C-N	5.89	128.45	120.44
8	N	184	ASP	C-N-CA	5.89	128.45	120.44
5	K	516	GLN	CB-CA-C	-5.89	101.63	110.88
7	O	482	PHE	CB-CG-CD1	5.89	130.71	120.70
8	P	481	THR	CB-CA-C	5.89	120.30	109.46
9	T	382	LEU	CB-CA-C	-5.89	100.17	109.42
7	M	1528	VAL	CA-C-O	-5.89	114.83	120.95
2	0	176	PHE	O-C-N	-5.89	114.55	121.32
7	O	251	ASP	CA-CB-CG	5.89	118.49	112.60
7	M	1199	ASP	O-C-N	-5.89	115.18	120.71
9	R	259	ILE	CA-C-N	5.89	128.17	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	R	259	ILE	C-N-CA	5.89	128.17	120.28
6	L	270	PRO	CA-N-CD	-5.89	103.76	112.00
9	S	447	ASP	N-CA-CB	5.89	120.44	110.49
2	Y	1143	GLN	CA-C-N	5.88	128.75	120.28
2	Y	1143	GLN	C-N-CA	5.88	128.75	120.28
8	N	267	ILE	N-CA-C	5.88	116.66	110.72
10	U	357	LYS	CA-C-O	5.88	127.10	119.98
2	0	677	GLU	CA-C-N	5.88	128.16	120.28
2	0	677	GLU	C-N-CA	5.88	128.16	120.28
3	1	1388	HIS	CG-CD2-NE2	5.88	113.08	107.20
8	P	1166	VAL	CA-C-O	5.88	127.09	120.85
9	S	271	VAL	N-CA-CB	5.88	117.44	110.55
7	M	126	GLU	N-CA-C	-5.88	106.01	112.72
2	0	837	ASP	N-CA-C	5.88	117.69	111.28
2	Y	851	GLU	N-CA-CB	5.88	118.77	110.12
2	Y	967	LEU	O-C-N	-5.88	115.44	122.15
9	Q	456	ARG	CD-NE-CZ	-5.88	116.17	124.40
4	J	767	VAL	CA-C-O	5.88	126.60	120.25
9	S	288	ASN	CA-C-N	5.88	128.16	120.28
9	S	288	ASN	C-N-CA	5.88	128.16	120.28
2	Y	776	LEU	CA-C-N	5.88	128.09	120.56
2	Y	776	LEU	C-N-CA	5.88	128.09	120.56
8	N	481	THR	CB-CA-C	5.88	120.28	109.46
2	0	832	VAL	CA-C-N	5.88	128.16	120.28
2	0	832	VAL	C-N-CA	5.88	128.16	120.28
2	0	855	THR	N-CA-C	-5.88	104.82	112.23
8	P	1261	ILE	CA-C-O	5.88	127.40	121.17
2	Y	1199	ILE	O-C-N	5.88	127.67	121.91
7	M	1	MET	CA-C-N	5.88	132.25	122.73
7	M	1	MET	C-N-CA	5.88	132.25	122.73
8	N	218	ASN	CA-CB-CG	-5.88	106.72	112.60
8	N	1328	PHE	CA-C-N	5.88	128.51	120.46
8	N	1328	PHE	C-N-CA	5.88	128.51	120.46
7	O	61	GLY	N-CA-C	-5.88	104.30	112.18
9	T	784	ASN	CA-CB-CG	-5.88	106.72	112.60
5	B	529	LYS	CA-C-N	5.88	128.15	120.28
5	B	529	LYS	C-N-CA	5.88	128.15	120.28
4	D	639	ASP	N-CA-CB	5.88	120.42	110.49
9	R	540	ASN	CA-C-N	5.88	128.15	120.28
9	R	540	ASN	C-N-CA	5.88	128.15	120.28
3	1	834	GLY	CA-C-N	5.88	128.18	120.60
3	1	834	GLY	C-N-CA	5.88	128.18	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	H	529	LYS	CA-C-N	5.88	128.15	120.28
5	H	529	LYS	C-N-CA	5.88	128.15	120.28
7	M	1429	ASP	CA-C-N	5.88	128.74	120.28
7	M	1429	ASP	C-N-CA	5.88	128.74	120.28
8	N	256	THR	CA-CB-CG2	-5.88	100.51	110.50
9	R	263	MET	CB-CA-C	-5.88	98.26	109.95
9	R	795	GLN	N-CA-C	5.88	123.31	110.80
2	0	784	ILE	CA-C-O	-5.88	114.09	119.91
3	Z	851	ASP	N-CA-CB	5.87	119.39	110.28
6	C	347	THR	CA-C-N	5.87	128.07	120.44
6	C	347	THR	C-N-CA	5.87	128.07	120.44
9	R	784	ASN	CA-CB-CG	-5.87	106.73	112.60
2	0	902	SER	N-CA-C	5.87	117.76	111.36
3	1	242	HIS	CE1-NE2-CD2	-5.87	103.13	109.00
5	H	374	ILE	CB-CA-C	5.87	120.07	112.14
8	P	869	LYS	CA-C-N	5.87	125.89	119.90
8	P	869	LYS	C-N-CA	5.87	125.89	119.90
2	Y	784	ILE	CA-C-O	-5.87	114.10	119.91
3	Z	378	LEU	CA-C-N	5.87	130.91	123.10
3	Z	378	LEU	C-N-CA	5.87	130.91	123.10
8	N	1105	LEU	CA-C-N	5.87	128.07	120.44
8	N	1105	LEU	C-N-CA	5.87	128.07	120.44
2	0	1193	SER	CA-C-N	5.87	128.63	120.29
2	0	1193	SER	C-N-CA	5.87	128.63	120.29
7	O	24	LEU	CA-C-N	5.87	128.15	120.28
7	O	24	LEU	C-N-CA	5.87	128.15	120.28
8	N	179	LEU	CA-C-N	5.87	128.07	120.44
8	N	179	LEU	C-N-CA	5.87	128.07	120.44
3	1	232	ILE	N-CA-C	-5.87	99.18	107.75
2	Y	1138	GLU	CA-C-N	5.87	128.75	120.42
2	Y	1138	GLU	C-N-CA	5.87	128.75	120.42
7	M	189	GLU	CA-C-N	5.87	128.14	120.28
7	M	189	GLU	C-N-CA	5.87	128.14	120.28
9	Q	327	VAL	CB-CA-C	5.87	119.02	110.98
9	Q	563	ASN	CA-C-N	5.87	132.75	121.54
9	Q	563	ASN	C-N-CA	5.87	132.75	121.54
9	R	137	ASP	CB-CA-C	-5.87	101.05	110.79
2	0	776	LEU	CA-C-N	5.87	128.07	120.56
2	0	776	LEU	C-N-CA	5.87	128.07	120.56
4	G	775	THR	N-CA-C	-5.87	105.98	113.02
7	O	352	ILE	CA-C-O	-5.87	116.89	119.94
8	P	105	GLU	CA-C-N	5.87	128.07	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	105	GLU	C-N-CA	5.87	128.07	120.44
9	S	563	ASN	CA-C-N	5.87	132.75	121.54
9	S	563	ASN	C-N-CA	5.87	132.75	121.54
9	T	795	GLN	N-CA-C	5.87	123.30	110.80
2	Y	1075	ASP	CB-CA-C	5.87	118.70	111.43
6	C	462	GLN	CA-C-O	5.87	126.71	119.79
4	D	713	ASN	CA-CB-CG	-5.87	106.73	112.60
8	N	518	LEU	N-CA-C	-5.87	102.97	110.53
8	N	744	LEU	CA-C-N	5.87	128.14	120.28
8	N	744	LEU	C-N-CA	5.87	128.14	120.28
11	V	292	GLY	N-CA-C	-5.87	105.03	112.65
2	0	148	PHE	CA-CB-CG	-5.87	107.94	113.80
7	O	1202	ASN	OD1-CG-ND2	5.87	128.47	122.60
7	M	1446	VAL	CB-CA-C	-5.86	104.81	111.55
9	Q	411	VAL	CA-C-N	5.86	128.14	120.28
9	Q	411	VAL	C-N-CA	5.86	128.14	120.28
9	Q	658	ASN	OD1-CG-ND2	-5.86	116.74	122.60
2	0	156	ILE	CA-C-O	-5.86	112.09	119.95
3	1	582	THR	CA-C-N	5.86	125.97	119.87
3	1	582	THR	C-N-CA	5.86	125.97	119.87
6	I	462	GLN	CA-C-O	5.86	126.71	119.79
8	P	256	THR	CA-CB-CG2	-5.86	100.53	110.50
9	S	327	VAL	CB-CA-C	5.86	119.01	110.98
11	X	292	GLY	N-CA-C	-5.86	105.03	112.65
3	Z	125	PHE	N-CA-C	-5.86	100.14	109.23
7	M	239	HIS	ND1-CE1-NE2	5.86	114.26	108.40
9	R	18	ALA	N-CA-CB	5.86	118.57	110.07
7	O	1446	VAL	CB-CA-C	-5.86	104.81	111.55
8	P	268	THR	CA-C-O	-5.86	114.34	120.55
8	P	497	ILE	CA-CB-CG2	-5.86	100.53	110.50
8	P	1042	SER	N-CA-C	-5.86	104.97	111.36
4	D	686	ALA	CA-C-N	5.86	128.45	120.54
4	D	686	ALA	C-N-CA	5.86	128.45	120.54
7	M	109	ARG	O-C-N	5.86	128.11	122.07
7	M	1358	VAL	CA-C-N	5.86	128.06	120.44
7	M	1358	VAL	C-N-CA	5.86	128.06	120.44
2	0	1143	GLN	CA-C-N	5.86	128.72	120.28
2	0	1143	GLN	C-N-CA	5.86	128.72	120.28
3	1	389	ASN	CA-CB-CG	-5.86	106.74	112.60
8	P	179	LEU	CA-C-N	5.86	128.06	120.44
8	P	179	LEU	C-N-CA	5.86	128.06	120.44
9	T	526	LYS	N-CA-CB	5.86	120.20	110.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	I	437	ALA	N-CA-C	-5.86	105.79	113.17
9	S	261	GLU	O-C-N	5.86	128.33	122.12
9	S	469	TYR	N-CA-CB	5.86	118.83	110.16
6	F	398	VAL	CB-CA-C	-5.86	104.47	111.97
9	Q	422	ARG	NE-CZ-NH2	-5.86	113.93	119.20
8	P	910	ALA	N-CA-C	5.86	116.77	109.57
8	P	1284	ILE	CA-C-N	5.86	128.13	120.28
8	P	1284	ILE	C-N-CA	5.86	128.13	120.28
9	T	639	ASP	O-C-N	5.86	128.33	122.12
2	Y	832	VAL	CA-C-N	5.86	128.12	120.28
2	Y	832	VAL	C-N-CA	5.86	128.12	120.28
7	M	106	TYR	CB-CG-CD2	-5.86	112.02	120.80
9	Q	447	ASP	N-CA-CB	5.86	120.39	110.49
2	0	664	ASP	CA-CB-CG	-5.86	106.75	112.60
9	S	411	VAL	CA-C-N	5.86	128.13	120.28
9	S	411	VAL	C-N-CA	5.86	128.13	120.28
8	P	594	ILE	CA-C-O	-5.85	114.55	121.05
7	M	1125	SER	CA-C-N	5.85	125.86	119.89
7	M	1125	SER	C-N-CA	5.85	125.86	119.89
8	N	555	PHE	CA-CB-CG	-5.85	107.95	113.80
9	Q	264	LYS	N-CA-C	-5.85	100.30	109.25
3	1	125	PHE	N-CA-C	-5.85	100.16	109.23
8	P	1578	ASP	N-CA-C	-5.85	105.33	112.88
9	R	214	ASN	OD1-CG-ND2	5.85	128.45	122.60
9	R	526	LYS	N-CA-CB	5.85	120.18	110.47
7	O	1265	THR	CA-C-N	5.85	132.06	122.64
7	O	1265	THR	C-N-CA	5.85	132.06	122.64
8	P	1371	HIS	CA-CB-CG	5.85	119.65	113.80
2	Y	363	GLN	N-CA-C	-5.85	105.80	113.17
7	M	777	GLN	CA-C-N	5.85	128.10	120.26
7	M	777	GLN	C-N-CA	5.85	128.10	120.26
5	H	410	LYS	CA-C-N	5.85	129.20	120.31
5	H	410	LYS	C-N-CA	5.85	129.20	120.31
8	P	1175	GLU	N-CA-C	-5.85	98.91	109.09
8	P	1328	PHE	CA-C-N	5.85	128.47	120.46
8	P	1328	PHE	C-N-CA	5.85	128.47	120.46
8	P	1573	PRO	N-CA-CB	5.85	108.53	103.27
9	T	439	HIS	CE1-NE2-CD2	-5.85	103.15	109.00
2	Y	647	ILE	N-CA-C	-5.85	99.32	107.80
2	Y	837	ASP	N-CA-C	5.85	117.65	111.28
5	B	410	LYS	CA-C-N	5.85	129.20	120.31
5	B	410	LYS	C-N-CA	5.85	129.20	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	767	VAL	CA-C-O	5.85	126.56	120.25
6	F	308	ILE	CA-C-O	-5.85	112.11	119.95
7	M	1091	LEU	O-C-N	5.85	130.17	122.33
3	1	904	TYR	CA-C-N	5.85	128.12	120.28
3	1	904	TYR	C-N-CA	5.85	128.12	120.28
7	O	819	VAL	CA-C-O	-5.85	114.97	121.17
9	S	191	ASN	CA-C-O	5.85	127.75	121.55
9	T	214	ASN	OD1-CG-ND2	5.85	128.45	122.60
2	Y	275	SER	CA-C-O	-5.85	114.39	120.70
3	Z	813	ASN	OD1-CG-ND2	5.85	128.45	122.60
6	C	312	VAL	N-CA-C	5.85	116.58	110.62
5	E	375	ILE	CB-CA-C	-5.85	104.49	111.97
7	O	639	LEU	O-C-N	5.85	128.32	122.12
7	O	1040	THR	N-CA-CB	5.85	120.37	110.49
7	M	1144	VAL	CA-C-N	5.84	126.43	120.00
7	M	1144	VAL	C-N-CA	5.84	126.43	120.00
8	N	329	LEU	N-CA-CB	5.84	118.71	110.12
8	N	414	ASN	OD1-CG-ND2	5.84	128.44	122.60
2	0	147	PRO	N-CA-C	-5.84	106.45	114.98
3	1	1058	CYS	CA-C-N	5.84	128.59	120.29
3	1	1058	CYS	C-N-CA	5.84	128.59	120.29
7	O	827	ILE	CA-C-N	5.84	128.04	120.44
7	O	827	ILE	C-N-CA	5.84	128.04	120.44
8	P	267	ILE	N-CA-C	5.84	116.62	110.72
9	S	264	LYS	N-CA-C	-5.84	100.31	109.25
9	T	263	MET	CB-CA-C	-5.84	98.32	109.95
9	T	625	GLU	CA-C-O	5.84	126.61	120.42
7	M	938	ALA	CB-CA-C	-5.84	100.92	110.85
7	M	769	ASP	CA-CB-CG	5.84	118.44	112.60
2	0	312	VAL	N-CA-CB	5.84	120.05	111.52
7	O	1144	VAL	CA-C-N	5.84	126.43	120.00
7	O	1144	VAL	C-N-CA	5.84	126.43	120.00
8	P	1105	LEU	CA-C-N	5.84	128.03	120.44
8	P	1105	LEU	C-N-CA	5.84	128.03	120.44
11	X	379	GLY	CA-C-N	5.84	129.00	120.71
11	X	379	GLY	C-N-CA	5.84	129.00	120.71
3	Z	351	ARG	NE-CZ-NH1	5.84	127.34	121.50
5	B	374	ILE	CB-CA-C	5.84	120.02	112.14
7	M	489	TYR	N-CA-CB	5.84	119.55	110.44
8	N	1237	ASN	N-CA-CB	5.84	118.80	110.16
9	T	464	ASN	CA-C-N	5.84	127.92	120.56
9	T	464	ASN	C-N-CA	5.84	127.92	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	300	MET	CG-SD-CE	-5.84	88.06	100.90
9	Q	477	TYR	N-CA-C	-5.84	105.35	112.88
9	R	439	HIS	CE1-NE2-CD2	-5.84	103.16	109.00
2	0	1075	ASP	CB-CA-C	5.84	118.67	111.43
6	L	308	ILE	CA-C-O	-5.84	112.13	119.95
2	Y	1160	HIS	O-C-N	5.84	128.80	122.15
6	L	398	VAL	CB-CA-C	-5.84	104.50	111.97
7	O	1015	ARG	N-CA-C	-5.84	106.70	113.88
7	O	1236	ILE	N-CA-CB	-5.84	103.20	112.07
2	Y	929	PHE	CA-C-N	5.83	128.10	120.28
2	Y	929	PHE	C-N-CA	5.83	128.10	120.28
2	Y	1193	SER	CA-C-N	5.83	128.58	120.29
2	Y	1193	SER	C-N-CA	5.83	128.58	120.29
3	Z	242	HIS	CE1-NE2-CD2	-5.83	103.17	109.00
3	Z	268	ARG	CD-NE-CZ	-5.83	116.23	124.40
3	Z	502	ILE	N-CA-CB	5.83	118.81	111.46
8	N	1120	LYS	N-CA-C	-5.83	105.00	111.36
8	N	1156	PHE	N-CA-C	-5.83	100.19	109.23
9	R	382	LEU	CB-CA-C	-5.83	100.26	109.42
2	Y	705	MET	CA-C-O	-5.83	115.05	121.58
2	Y	855	THR	N-CA-C	-5.83	104.88	112.23
3	Z	904	TYR	CA-C-N	5.83	128.09	120.28
3	Z	904	TYR	C-N-CA	5.83	128.09	120.28
7	M	1236	ILE	N-CA-CB	-5.83	103.21	112.07
7	O	454	LYS	CA-C-N	5.83	128.09	120.28
7	O	454	LYS	C-N-CA	5.83	128.09	120.28
11	V	280	ILE	N-CA-CB	5.83	120.85	111.23
4	J	696	SER	N-CA-C	-5.83	106.21	113.38
2	Y	677	GLU	CA-C-N	5.83	128.09	120.28
2	Y	677	GLU	C-N-CA	5.83	128.09	120.28
2	Y	936	VAL	N-CA-C	-5.83	101.20	108.89
5	E	508	LYS	N-CA-C	-5.83	106.17	113.28
8	N	1110	HIS	CA-C-N	5.83	128.67	120.28
8	N	1110	HIS	C-N-CA	5.83	128.67	120.28
8	N	1175	GLU	N-CA-C	-5.83	98.95	109.09
8	N	1578	ASP	N-CA-C	-5.83	105.36	112.88
9	Q	303	ASN	CB-CG-ND2	-5.83	107.66	116.40
9	R	777	ILE	N-CA-C	5.83	116.02	110.42
7	O	1228	LEU	CA-C-N	5.83	129.11	120.95
7	O	1228	LEU	C-N-CA	5.83	129.11	120.95
8	P	515	ASN	CA-CB-CG	-5.83	106.77	112.60
9	T	246	ASN	CA-CB-CG	-5.83	106.77	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y	264	PRO	N-CA-CB	5.83	108.49	103.31
2	Y	1039	VAL	CB-CA-C	5.83	119.34	111.88
8	N	995	LEU	CA-C-O	-5.83	114.34	120.63
3	1	1365	GLN	CA-C-O	5.83	126.59	120.42
7	O	300	MET	CG-SD-CE	-5.83	88.08	100.90
7	O	489	TYR	N-CA-CB	5.83	119.53	110.44
7	O	798	ASN	CA-C-O	-5.83	112.51	119.15
8	P	414	ASN	N-CA-CB	5.83	118.46	110.01
8	P	518	LEU	N-CA-C	-5.83	103.01	110.53
9	T	18	ALA	N-CA-CB	5.83	118.52	110.07
6	F	310	ARG	CA-C-O	-5.82	114.25	120.42
7	M	819	VAL	CA-C-O	-5.82	115.00	121.17
9	Q	679	ASP	CA-CB-CG	-5.82	106.78	112.60
5	H	445	GLN	N-CA-C	-5.82	105.19	112.93
4	D	718	THR	N-CA-C	5.82	117.71	111.36
2	0	1160	HIS	O-C-N	5.82	128.79	122.15
7	O	1458	LEU	CA-C-N	5.82	128.36	120.44
7	O	1458	LEU	C-N-CA	5.82	128.36	120.44
8	P	729	HIS	CA-C-O	-5.82	112.54	119.35
8	P	1237	ASN	N-CA-CB	5.82	118.78	110.16
9	T	213	GLU	CA-C-N	5.82	128.08	120.28
9	T	213	GLU	C-N-CA	5.82	128.08	120.28
7	M	1202	ASN	OD1-CG-ND2	5.82	128.42	122.60
9	Q	163	HIS	N-CA-C	5.82	117.70	111.36
9	R	246	ASN	CA-CB-CG	-5.82	106.78	112.60
3	1	787	ALA	CA-C-N	5.82	129.16	120.31
3	1	787	ALA	C-N-CA	5.82	129.16	120.31
5	K	508	LYS	N-CA-C	-5.82	106.18	113.28
8	P	218	ASN	CA-CB-CG	-5.82	106.78	112.60
9	Q	191	ASN	CA-C-O	5.82	127.72	121.55
2	0	495	PHE	CA-CB-CG	-5.82	107.98	113.80
2	0	704	THR	CA-CB-CG2	-5.82	100.61	110.50
3	1	546	GLY	N-CA-C	-5.82	105.45	112.49
3	Z	86	THR	N-CA-C	-5.82	107.17	114.56
8	N	105	GLU	CA-C-N	5.82	128.00	120.44
8	N	105	GLU	C-N-CA	5.82	128.00	120.44
8	N	869	LYS	CA-C-N	5.82	125.83	119.90
8	N	869	LYS	C-N-CA	5.82	125.83	119.90
9	Q	469	TYR	N-CA-CB	5.82	118.77	110.16
3	1	84	GLY	CA-C-N	5.82	132.65	121.54
3	1	84	GLY	C-N-CA	5.82	132.65	121.54
8	P	555	PHE	CA-CB-CG	-5.82	107.98	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	163	HIS	N-CA-C	5.82	117.70	111.36
8	N	408	PRO	N-CA-CB	5.82	108.20	103.32
9	R	469	TYR	N-CA-C	-5.82	104.54	111.69
3	1	369	THR	N-CA-C	-5.82	100.91	109.81
3	1	789	ASP	O-C-N	-5.82	115.96	122.12
4	J	686	ALA	CA-C-N	5.82	128.39	120.54
4	J	686	ALA	C-N-CA	5.82	128.39	120.54
7	O	113	ILE	CA-C-N	5.82	128.07	120.28
7	O	113	ILE	C-N-CA	5.82	128.07	120.28
7	O	1240	HIS	CA-CB-CG	5.82	119.61	113.80
7	O	1301	SER	CA-C-N	5.82	127.89	120.56
7	O	1301	SER	C-N-CA	5.82	127.89	120.56
8	P	960	LEU	CA-C-N	5.82	130.56	120.68
8	P	960	LEU	C-N-CA	5.82	130.56	120.68
9	S	600	ILE	CA-C-N	-5.82	113.94	119.76
9	S	600	ILE	C-N-CA	-5.82	113.94	119.76
3	Z	765	PHE	O-C-N	5.81	128.06	122.07
8	N	497	ILE	CA-CB-CG2	-5.81	100.62	110.50
2	0	788	HIS	CG-CD2-NE2	5.81	113.01	107.20
9	T	218	ILE	N-CA-C	5.81	116.00	110.42
7	M	61	GLY	N-CA-C	-5.81	104.39	112.18
7	M	1240	HIS	CA-CB-CG	5.81	119.61	113.80
9	R	45	SER	N-CA-C	-5.81	105.38	112.88
9	R	626	GLN	OE1-CD-NE2	5.81	128.41	122.60
2	0	851	GLU	N-CA-CB	5.81	118.66	110.12
8	P	1120	LYS	N-CA-C	-5.81	105.02	111.36
9	S	679	ASP	CA-CB-CG	-5.81	106.79	112.60
3	Z	1365	GLN	CA-C-O	5.81	126.58	120.42
8	N	1325	GLY	O-C-N	-5.81	116.60	122.18
9	Q	420	LEU	N-CA-C	-5.81	103.68	111.87
2	0	936	VAL	N-CA-C	-5.81	101.22	108.89
7	O	70	PHE	N-CA-CB	-5.81	101.27	110.28
8	P	995	LEU	CA-C-O	-5.81	114.35	120.63
2	Y	495	PHE	CA-CB-CG	-5.81	107.99	113.80
3	Z	1256	VAL	CA-C-N	5.81	130.96	120.79
3	Z	1256	VAL	C-N-CA	5.81	130.96	120.79
3	Z	1325	LEU	N-CA-CB	5.81	118.66	110.12
9	Q	288	ASN	CA-C-N	5.81	128.06	120.28
9	Q	288	ASN	C-N-CA	5.81	128.06	120.28
4	G	818	ILE	CA-C-N	5.81	128.65	120.28
4	G	818	ILE	C-N-CA	5.81	128.65	120.28
10	W	358	LYS	N-CA-CB	5.81	118.51	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	640	LEU	CA-C-O	5.81	125.29	118.90
7	M	464	GLY	O-C-N	-5.81	116.05	122.55
7	M	1015	ARG	N-CA-C	-5.81	106.74	113.88
8	N	929	MET	CA-C-N	5.81	128.06	120.28
8	N	929	MET	C-N-CA	5.81	128.06	120.28
3	1	86	THR	N-CA-C	-5.81	107.19	114.56
3	1	96	GLU	CA-C-N	5.81	127.99	120.44
3	1	96	GLU	C-N-CA	5.81	127.99	120.44
8	P	1193	ASN	CA-C-O	-5.81	114.72	120.82
2	0	929	PHE	CA-C-N	5.81	128.06	120.28
2	0	929	PHE	C-N-CA	5.81	128.06	120.28
8	P	1156	PHE	N-CA-C	-5.81	100.23	109.23
2	Y	907	LEU	CA-C-N	5.80	128.06	120.28
2	Y	907	LEU	C-N-CA	5.80	128.06	120.28
8	N	1230	VAL	CA-C-N	5.80	128.06	120.28
8	N	1230	VAL	C-N-CA	5.80	128.06	120.28
7	O	964	LYS	N-CA-CB	5.80	118.65	110.12
9	T	469	TYR	N-CA-C	-5.80	104.55	111.69
9	T	636	ARG	NE-CZ-NH1	-5.80	115.69	121.50
8	P	207	ASP	N-CA-C	5.80	117.61	111.28
9	T	259	ILE	CA-C-N	5.80	128.06	120.28
9	T	259	ILE	C-N-CA	5.80	128.06	120.28
5	B	445	GLN	N-CA-C	-5.80	105.21	112.93
9	R	82	ASP	N-CA-C	-5.80	105.86	113.17
3	1	1325	LEU	N-CA-CB	5.80	118.65	110.12
9	S	18	ALA	N-CA-CB	5.80	118.48	110.07
9	S	382	LEU	CA-C-N	5.80	125.81	119.89
9	S	382	LEU	C-N-CA	5.80	125.81	119.89
2	Y	479	GLN	OE1-CD-NE2	-5.80	116.80	122.60
3	Z	541	SER	N-CA-C	-5.80	97.87	108.02
6	C	437	ALA	N-CA-C	-5.80	105.86	113.17
7	M	454	LYS	CA-C-N	5.80	128.05	120.28
7	M	454	LYS	C-N-CA	5.80	128.05	120.28
7	M	1458	LEU	CA-C-N	5.80	128.33	120.44
7	M	1458	LEU	C-N-CA	5.80	128.33	120.44
7	M	1545	ARG	NE-CZ-NH2	-5.80	113.98	119.20
9	Q	615	ASP	CA-CB-CG	-5.80	106.80	112.60
3	1	502	ILE	N-CA-CB	5.80	118.77	111.46
3	1	1382	TYR	CA-C-N	5.80	128.66	120.42
3	1	1382	TYR	C-N-CA	5.80	128.66	120.42
6	L	358	LEU	N-CA-C	-5.80	104.86	111.07
7	O	106	TYR	CB-CG-CD2	-5.80	112.10	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	464	GLY	O-C-N	-5.80	116.06	122.55
8	P	318	HIS	N-CA-C	5.80	117.90	109.84
3	Z	1080	VAL	CA-C-N	5.80	127.34	120.09
3	Z	1080	VAL	C-N-CA	5.80	127.34	120.09
7	M	1356	LEU	CA-C-N	5.80	128.05	120.28
7	M	1356	LEU	C-N-CA	5.80	128.05	120.28
8	N	1608	HIS	CE1-NE2-CD2	-5.80	103.20	109.00
6	I	312	VAL	N-CA-C	5.80	116.53	110.62
8	P	1065	THR	CA-C-O	5.80	126.91	120.82
2	Y	920	GLU	CA-C-N	5.80	130.32	121.51
2	Y	920	GLU	C-N-CA	5.80	130.32	121.51
3	Z	389	ASN	CA-CB-CG	-5.80	106.80	112.60
3	Z	1224	LYS	CA-C-N	5.80	128.65	120.42
3	Z	1224	LYS	C-N-CA	5.80	128.65	120.42
7	M	70	PHE	N-CA-CB	-5.80	101.30	110.28
7	M	325	PHE	CA-CB-CG	5.80	119.60	113.80
7	M	1301	SER	CA-C-N	5.80	127.86	120.56
7	M	1301	SER	C-N-CA	5.80	127.86	120.56
8	N	413	GLU	CA-C-N	5.80	128.05	120.28
8	N	413	GLU	C-N-CA	5.80	128.05	120.28
8	N	729	HIS	CA-C-O	-5.80	112.57	119.35
8	N	1061	THR	N-CA-C	-5.80	101.16	110.14
2	0	879	ASP	CA-C-N	5.80	128.84	120.38
2	0	879	ASP	C-N-CA	5.80	128.84	120.38
3	1	811	LEU	CA-C-O	-5.80	114.73	120.82
7	O	163	ASN	O-C-N	-5.80	115.98	122.12
8	P	329	LEU	N-CA-CB	5.80	118.64	110.12
2	Y	281	ARG	CA-C-O	-5.79	114.44	121.05
9	T	414	LEU	CB-CA-C	-5.79	101.74	110.90
2	Y	156	ILE	CA-C-O	-5.79	112.19	119.95
8	N	318	HIS	CA-CB-CG	5.79	119.59	113.80
8	N	318	HIS	N-CA-C	5.79	117.89	109.84
8	N	413	GLU	O-C-N	5.79	128.04	122.07
8	N	515	ASN	CA-CB-CG	-5.79	106.81	112.60
9	Q	418	CYS	CA-C-N	5.79	132.61	121.54
9	Q	418	CYS	C-N-CA	5.79	132.61	121.54
2	0	275	SER	CA-C-O	-5.79	114.44	120.70
3	1	1224	LYS	CA-C-N	5.79	128.65	120.42
3	1	1224	LYS	C-N-CA	5.79	128.65	120.42
7	O	671	PHE	CA-C-N	5.79	127.97	120.44
7	O	671	PHE	C-N-CA	5.79	127.97	120.44
8	P	1230	VAL	CA-C-N	5.79	128.04	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	1230	VAL	C-N-CA	5.79	128.04	120.28
9	T	45	SER	N-CA-C	-5.79	105.41	112.88
2	Y	147	PRO	N-CA-C	-5.79	106.53	114.98
2	Y	176	PHE	O-C-N	-5.79	114.66	121.32
3	Z	369	THR	N-CA-C	-5.79	100.95	109.81
3	Z	787	ALA	CA-C-N	5.79	129.11	120.31
3	Z	787	ALA	C-N-CA	5.79	129.11	120.31
5	B	509	ILE	CA-C-O	5.79	126.77	120.57
2	0	265	VAL	N-CA-C	-5.79	107.10	112.43
2	0	609	ILE	CA-C-N	5.79	125.55	119.76
2	0	609	ILE	C-N-CA	5.79	125.55	119.76
2	0	705	MET	CA-C-O	-5.79	115.09	121.58
2	0	907	LEU	CA-C-N	5.79	128.04	120.28
2	0	907	LEU	C-N-CA	5.79	128.04	120.28
7	O	1578	VAL	N-CA-C	-5.79	100.08	108.71
9	S	418	CYS	CA-C-N	5.79	132.60	121.54
9	S	418	CYS	C-N-CA	5.79	132.60	121.54
9	T	658	ASN	CA-C-N	5.79	128.04	120.28
9	T	658	ASN	C-N-CA	5.79	128.04	120.28
7	M	113	ILE	CA-C-N	5.79	128.04	120.28
7	M	113	ILE	C-N-CA	5.79	128.04	120.28
11	V	281	SER	CA-C-O	5.79	126.38	120.24
3	1	268	ARG	CD-NE-CZ	-5.79	116.29	124.40
3	1	541	SER	N-CA-C	-5.79	97.89	108.02
5	K	526	VAL	N-CA-C	-5.79	103.68	111.44
7	O	1356	LEU	CA-C-N	5.79	128.04	120.28
7	O	1356	LEU	C-N-CA	5.79	128.04	120.28
2	Y	265	VAL	N-CA-C	-5.79	107.11	112.43
2	Y	704	THR	CA-CB-CG2	-5.79	100.66	110.50
7	M	296	ARG	N-CA-C	-5.79	105.32	112.90
7	M	964	LYS	N-CA-CB	5.79	118.63	110.12
8	N	1261	ILE	CA-C-O	5.79	127.31	121.17
9	R	459	LEU	O-C-N	5.79	128.26	122.12
2	0	264	PRO	N-CA-CB	5.79	108.46	103.31
8	P	109	ARG	NE-CZ-NH1	5.79	127.29	121.50
8	P	1162	LEU	N-CA-C	-5.79	105.05	111.36
9	S	477	TYR	N-CA-C	-5.79	105.41	112.88
4	D	724	ASP	N-CA-C	-5.79	100.15	108.60
2	0	291	LEU	N-CA-C	-5.79	98.91	109.56
8	P	96	SER	CA-C-N	5.79	128.03	120.28
8	P	96	SER	C-N-CA	5.79	128.03	120.28
8	P	144	ILE	CB-CA-C	-5.79	104.23	112.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	1265	THR	CA-C-N	5.79	131.95	122.64
7	M	1265	THR	C-N-CA	5.79	131.95	122.64
2	0	479	GLN	OE1-CD-NE2	-5.79	116.81	122.60
2	0	920	GLU	CA-C-N	5.79	130.30	121.51
2	0	920	GLU	C-N-CA	5.79	130.30	121.51
2	0	1116	ASP	CA-C-N	5.79	128.03	120.28
2	0	1116	ASP	C-N-CA	5.79	128.03	120.28
4	J	724	ASP	N-CA-C	-5.79	100.15	108.60
7	O	191	ASP	CA-C-N	5.79	128.63	120.42
7	O	191	ASP	C-N-CA	5.79	128.63	120.42
7	M	751	PRO	CA-C-N	5.78	128.35	120.54
7	M	751	PRO	C-N-CA	5.78	128.35	120.54
8	N	144	ILE	CB-CA-C	-5.78	104.24	112.22
8	N	915	ASP	O-C-N	5.78	130.28	122.59
8	P	1532	THR	CA-C-N	5.78	128.38	120.46
8	P	1532	THR	C-N-CA	5.78	128.38	120.46
9	S	616	GLU	CA-C-N	5.78	128.50	120.29
9	S	616	GLU	C-N-CA	5.78	128.50	120.29
11	X	280	ILE	N-CA-CB	5.78	120.77	111.23
7	M	827	ILE	CA-C-N	5.78	127.96	120.44
7	M	827	ILE	C-N-CA	5.78	127.96	120.44
9	R	414	LEU	CB-CA-C	-5.78	101.76	110.90
7	O	777	GLN	CA-C-N	5.78	128.01	120.26
7	O	777	GLN	C-N-CA	5.78	128.01	120.26
8	P	1121	THR	CA-C-N	5.78	127.96	120.44
8	P	1121	THR	C-N-CA	5.78	127.96	120.44
2	Y	106	LYS	N-CA-C	5.78	117.58	111.28
2	Y	609	ILE	CA-C-N	5.78	125.54	119.76
2	Y	609	ILE	C-N-CA	5.78	125.54	119.76
7	M	191	ASP	CA-C-N	5.78	128.63	120.42
7	M	191	ASP	C-N-CA	5.78	128.63	120.42
10	U	358	LYS	N-CA-CB	5.78	118.47	109.97
3	1	176	SER	N-CA-C	-5.78	97.73	108.02
9	S	420	LEU	N-CA-C	-5.78	103.72	111.87
11	X	281	SER	CA-C-O	5.78	126.37	120.24
9	R	658	ASN	CA-C-N	5.78	128.02	120.28
9	R	658	ASN	C-N-CA	5.78	128.02	120.28
3	1	851	ASP	CB-CA-C	-5.78	99.57	110.67
9	S	415	ILE	CA-CB-CG2	5.78	120.33	110.50
7	M	13	ARG	NE-CZ-NH2	-5.78	114.00	119.20
7	M	100	ASN	CB-CG-ND2	-5.78	107.73	116.40
9	Q	373	ALA	CA-C-N	5.78	127.95	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	Q	373	ALA	C-N-CA	5.78	127.95	120.44
9	R	456	ARG	CB-CA-C	-5.78	100.33	109.80
4	G	640	LEU	N-CA-C	-5.78	106.15	113.43
7	O	74	ALA	CA-C-O	-5.78	114.43	120.55
8	P	413	GLU	O-C-N	5.78	128.02	122.07
10	W	344	SER	O-C-N	5.78	130.28	122.59
5	E	356	GLU	CA-C-N	5.78	127.36	120.14
5	E	356	GLU	C-N-CA	5.78	127.36	120.14
7	M	554	SER	CA-C-N	5.78	128.81	120.38
7	M	554	SER	C-N-CA	5.78	128.81	120.38
7	M	680	PHE	CB-CG-CD2	-5.78	110.88	120.70
7	M	749	ILE	CB-CA-C	5.78	119.19	111.85
8	N	594	ILE	CA-C-O	-5.78	114.64	121.05
11	V	379	GLY	CA-C-N	5.78	128.91	120.71
11	V	379	GLY	C-N-CA	5.78	128.91	120.71
7	O	198	TYR	O-C-N	-5.78	116.12	122.07
7	O	1329	LEU	CA-C-N	5.78	128.49	120.29
7	O	1329	LEU	C-N-CA	5.78	128.49	120.29
7	O	1358	VAL	CA-C-N	5.78	127.95	120.44
7	O	1358	VAL	C-N-CA	5.78	127.95	120.44
5	B	329	HIS	CB-CG-ND1	-5.77	114.04	122.70
5	E	523	LEU	CA-C-N	5.77	127.95	120.44
5	E	523	LEU	C-N-CA	5.77	127.95	120.44
7	M	163	ASN	O-C-N	-5.77	116.00	122.12
7	M	701	THR	CA-C-O	5.77	124.87	118.52
10	U	344	SER	O-C-N	5.77	130.27	122.59
3	1	1189	LYS	CA-C-N	5.77	127.95	120.44
3	1	1189	LYS	C-N-CA	5.77	127.95	120.44
8	P	1110	HIS	CA-C-N	5.77	128.59	120.28
8	P	1110	HIS	C-N-CA	5.77	128.59	120.28
9	S	560	ILE	N-CA-C	-5.77	104.47	112.50
2	Y	1116	ASP	CA-C-N	5.77	128.02	120.28
2	Y	1116	ASP	C-N-CA	5.77	128.02	120.28
6	F	352	VAL	O-C-N	-5.77	115.35	122.57
9	R	625	GLU	CA-C-O	5.77	126.54	120.42
2	0	661	ASP	N-CA-C	5.77	117.57	111.28
2	0	1352	ASN	N-CA-CB	5.77	120.05	110.47
7	O	938	ALA	CB-CA-C	-5.77	101.04	110.85
6	C	456	ARG	NH1-CZ-NH2	-5.77	111.80	119.30
7	M	1657	ASP	CA-C-N	5.77	125.63	119.28
7	M	1657	ASP	C-N-CA	5.77	125.63	119.28
9	T	626	GLN	OE1-CD-NE2	5.77	128.37	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y	89	HIS	ND1-CE1-NE2	5.77	114.17	108.40
3	Z	206	LEU	O-C-N	-5.77	116.64	123.22
3	Z	546	GLY	N-CA-C	-5.77	105.51	112.49
4	A	760	SER	CA-C-N	5.77	128.01	120.28
4	A	760	SER	C-N-CA	5.77	128.01	120.28
8	N	910	ALA	N-CA-C	5.77	116.67	109.57
2	0	106	LYS	N-CA-C	5.77	117.57	111.28
6	L	298	THR	CA-C-O	5.77	125.63	119.34
8	N	1121	THR	CA-C-N	5.77	127.94	120.44
8	N	1121	THR	C-N-CA	5.77	127.94	120.44
8	N	1263	TYR	CA-C-O	5.77	126.53	120.42
3	1	1080	VAL	CA-C-N	5.77	127.30	120.09
3	1	1080	VAL	C-N-CA	5.77	127.30	120.09
3	1	1214	ASP	N-CA-CB	-5.77	100.74	110.49
8	P	915	ASP	O-C-N	5.77	130.26	122.59
3	Z	1376	THR	N-CA-C	-5.77	105.44	112.88
3	1	1288	LEU	CA-C-N	5.77	127.94	120.44
3	1	1288	LEU	C-N-CA	5.77	127.94	120.44
9	R	213	GLU	CA-C-N	5.76	128.00	120.28
9	R	213	GLU	C-N-CA	5.76	128.00	120.28
3	1	1383	VAL	CA-C-N	5.76	128.00	120.28
3	1	1383	VAL	C-N-CA	5.76	128.00	120.28
9	T	456	ARG	CB-CA-C	-5.76	100.35	109.80
4	G	799	SER	N-CA-C	5.76	117.56	111.28
8	P	318	HIS	CA-CB-CG	5.76	119.56	113.80
2	Y	291	LEU	N-CA-C	-5.76	98.96	109.56
8	N	613	GLU	CA-C-O	-5.76	113.84	120.24
9	Q	261	GLU	O-C-N	5.76	128.23	122.12
9	Q	278	LEU	CA-C-O	-5.76	114.44	120.55
9	R	124	SER	CA-C-O	-5.76	114.77	120.82
6	L	352	VAL	O-C-N	-5.76	115.37	122.57
8	P	1608	HIS	CE1-NE2-CD2	-5.76	103.24	109.00
9	T	459	LEU	O-C-N	5.76	128.23	122.12
2	Y	661	ASP	N-CA-C	5.76	117.56	111.28
3	Z	789	ASP	O-C-N	-5.76	116.02	122.12
3	Z	1043	VAL	O-C-N	-5.76	115.90	121.83
4	A	818	ILE	CA-C-N	5.76	128.57	120.28
4	A	818	ILE	C-N-CA	5.76	128.57	120.28
2	0	1039	VAL	CB-CA-C	5.76	119.25	111.88
7	O	1091	LEU	O-C-N	5.76	130.05	122.33
8	P	929	MET	CA-C-N	5.76	128.00	120.28
8	P	929	MET	C-N-CA	5.76	128.00	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	42	ILE	CB-CA-C	-5.76	102.95	111.19
9	T	82	ASP	N-CA-C	-5.76	105.91	113.17
5	E	540	LYS	N-CA-CB	5.76	118.50	110.04
9	R	711	LYS	O-C-N	5.76	128.71	122.15
9	S	52	ARG	CA-C-O	5.76	127.76	121.02
2	Y	511	LYS	N-CA-CB	5.76	118.36	110.01
2	Y	1284	ARG	N-CA-C	-5.76	100.02	109.40
3	Z	1213	LEU	N-CA-C	-5.76	106.30	113.38
5	E	524	ASN	OD1-CG-ND2	-5.76	116.84	122.60
9	R	218	ILE	N-CA-C	5.76	115.95	110.42
2	0	281	ARG	CA-C-O	-5.76	114.49	121.05
8	N	960	LEU	CA-C-N	5.75	130.46	120.68
8	N	960	LEU	C-N-CA	5.75	130.46	120.68
9	Q	355	GLU	N-CA-C	5.75	118.33	111.71
7	O	101	ASN	O-C-N	-5.75	115.59	122.15
8	N	584	ASP	CA-C-N	5.75	127.99	120.28
8	N	584	ASP	C-N-CA	5.75	127.99	120.28
9	R	290	TYR	CA-C-N	5.75	127.99	120.28
9	R	290	TYR	C-N-CA	5.75	127.99	120.28
2	0	1097	TYR	CB-CA-C	-5.75	101.07	110.85
5	H	329	HIS	CB-CG-ND1	-5.75	114.07	122.70
8	P	1325	GLY	O-C-N	-5.75	116.66	122.18
9	S	615	ASP	CA-CB-CG	-5.75	106.85	112.60
3	Z	96	GLU	CA-C-N	5.75	127.92	120.44
3	Z	96	GLU	C-N-CA	5.75	127.92	120.44
3	Z	347	VAL	CA-C-O	-5.75	114.38	120.53
3	Z	836	TYR	N-CA-C	5.75	118.17	110.35
3	Z	1017	ASP	CA-CB-CG	-5.75	106.85	112.60
7	M	671	PHE	CA-C-N	5.75	127.92	120.44
7	M	671	PHE	C-N-CA	5.75	127.92	120.44
7	M	1261	SER	N-CA-C	-5.75	98.55	110.80
8	N	114	TYR	CA-C-O	-5.75	114.78	120.82
8	N	1236	LEU	CA-C-N	5.75	128.46	120.29
8	N	1236	LEU	C-N-CA	5.75	128.46	120.29
3	1	1376	THR	N-CA-C	-5.75	105.46	112.88
3	Z	1383	VAL	CA-C-N	5.75	127.98	120.28
3	Z	1383	VAL	C-N-CA	5.75	127.98	120.28
7	O	1261	SER	N-CA-C	-5.75	98.55	110.80
3	Z	1351	TYR	CB-CG-CD2	-5.75	112.18	120.80
4	G	687	GLU	N-CA-C	-5.75	105.09	111.36
4	G	800	HIS	ND1-CE1-NE2	5.75	114.15	108.40
8	P	620	ASN	CA-C-O	-5.75	114.75	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y	1336	ILE	CA-C-O	-5.75	115.08	121.17
3	Z	1288	LEU	CA-C-N	5.75	127.91	120.44
3	Z	1288	LEU	C-N-CA	5.75	127.91	120.44
4	A	687	GLU	N-CA-C	-5.75	105.10	111.36
5	E	526	VAL	N-CA-C	-5.75	103.74	111.44
7	M	74	ALA	CA-C-O	-5.75	114.46	120.55
9	Q	616	GLU	CA-C-N	5.75	128.45	120.29
9	Q	616	GLU	C-N-CA	5.75	128.45	120.29
2	0	922	PHE	CA-C-N	5.75	132.25	122.37
2	0	922	PHE	C-N-CA	5.75	132.25	122.37
2	0	1149	ALA	CA-C-N	5.75	128.45	120.29
2	0	1149	ALA	C-N-CA	5.75	128.45	120.29
2	0	1284	ARG	N-CA-C	-5.75	100.03	109.40
4	J	662	ILE	CA-CB-CG2	5.75	120.27	110.50
7	O	296	ARG	N-CA-C	-5.75	105.37	112.90
8	P	758	TYR	N-CA-C	-5.75	100.32	109.23
2	Y	1097	TYR	CB-CA-C	-5.75	101.08	110.85
2	Y	1423	PHE	CA-C-N	5.75	128.25	120.44
2	Y	1423	PHE	C-N-CA	5.75	128.25	120.44
7	M	50	GLN	CB-CA-C	-5.75	101.82	110.90
2	0	391	MET	CG-SD-CE	-5.75	88.26	100.90
8	P	1061	THR	N-CA-C	-5.75	101.23	110.14
2	Y	164	PHE	CA-CB-CG	5.74	119.54	113.80
2	Y	1149	ALA	CA-C-N	5.74	128.45	120.29
2	Y	1149	ALA	C-N-CA	5.74	128.45	120.29
3	Z	811	LEU	CA-C-O	-5.74	114.79	120.82
7	M	774	ARG	NH1-CZ-NH2	5.74	126.77	119.30
7	M	798	ASN	CA-C-O	-5.74	112.60	119.15
7	M	1272	LEU	N-CA-CB	5.74	118.56	110.12
7	M	1553	LEU	N-CA-CB	5.74	120.44	110.39
7	M	1578	VAL	N-CA-C	-5.74	100.15	108.71
8	N	112	ILE	CA-C-O	-5.74	115.08	121.17
8	N	758	TYR	N-CA-C	-5.74	100.33	109.23
9	Q	560	ILE	N-CA-C	-5.74	104.52	112.50
3	1	1211	ASP	O-C-N	-5.74	114.72	121.32
7	O	680	PHE	CB-CG-CD2	-5.74	110.94	120.70
8	P	1135	PRO	CA-C-O	-5.74	115.08	121.23
9	S	373	ALA	CA-C-N	5.74	127.91	120.44
9	S	373	ALA	C-N-CA	5.74	127.91	120.44
2	Y	391	MET	CG-SD-CE	-5.74	88.27	100.90
2	0	89	HIS	ND1-CE1-NE2	5.74	114.14	108.40
8	P	1236	LEU	CA-C-N	5.74	128.44	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	1236	LEU	C-N-CA	5.74	128.44	120.29
3	Z	84	GLY	CA-C-N	5.74	132.50	121.54
3	Z	84	GLY	C-N-CA	5.74	132.50	121.54
4	A	799	SER	N-CA-C	5.74	117.54	111.28
6	F	358	LEU	N-CA-C	-5.74	104.93	111.07
7	M	101	ASN	O-C-N	-5.74	115.61	122.15
5	H	419	LEU	O-C-N	-5.74	115.21	122.27
8	P	1089	SER	CA-C-O	-5.74	114.56	120.99
7	M	1041	PHE	CA-CB-CG	-5.74	108.06	113.80
8	N	1162	LEU	N-CA-C	-5.74	105.10	111.36
8	N	1532	THR	CA-C-N	5.74	128.32	120.46
8	N	1532	THR	C-N-CA	5.74	128.32	120.46
4	G	760	SER	CA-C-N	5.74	127.97	120.28
4	G	760	SER	C-N-CA	5.74	127.97	120.28
6	F	298	THR	CA-C-O	5.74	125.59	119.34
8	N	569	LEU	N-CA-CB	5.74	118.55	110.12
8	N	1135	PRO	CA-C-O	-5.74	115.09	121.23
3	1	362	ILE	N-CA-C	-5.74	100.16	108.36
9	T	124	SER	CA-C-O	-5.74	114.80	120.82
9	T	290	TYR	CA-C-N	5.74	127.97	120.28
9	T	290	TYR	C-N-CA	5.74	127.97	120.28
3	Z	362	ILE	N-CA-C	-5.74	100.16	108.36
4	D	662	ILE	CA-CB-CG2	5.74	120.25	110.50
7	M	540	ALA	CA-C-N	5.74	128.43	120.29
7	M	540	ALA	C-N-CA	5.74	128.43	120.29
8	N	657	CYS	CA-C-O	-5.74	114.47	120.55
9	Q	415	ILE	CA-CB-CG2	5.74	120.25	110.50
2	0	89	HIS	CA-C-O	-5.74	115.25	121.44
3	1	1256	VAL	CA-C-N	5.74	131.00	120.79
3	1	1256	VAL	C-N-CA	5.74	131.00	120.79
9	R	314	LYS	N-CA-C	-5.73	100.77	108.86
7	O	1041	PHE	CA-CB-CG	-5.73	108.07	113.80
8	P	1270	LYS	CA-CB-CG	5.73	125.57	114.10
4	A	720	ALA	N-CA-CB	5.73	118.48	109.94
7	M	228	PHE	CA-CB-CG	-5.73	108.07	113.80
7	M	352	ILE	CA-C-O	-5.73	116.96	119.94
7	M	1091	LEU	CA-C-O	-5.73	113.03	119.79
7	M	1505	HIS	ND1-CE1-NE2	5.73	114.13	108.40
8	N	1065	THR	CA-C-O	5.73	126.84	120.82
9	Q	160	TRP	O-C-N	5.73	127.97	122.07
2	0	164	PHE	CA-CB-CG	5.73	119.53	113.80
3	1	206	LEU	O-C-N	-5.73	116.69	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1	1068	ARG	CA-C-O	5.73	127.55	120.15
8	P	629	ILE	N-CA-CB	5.73	117.53	111.00
2	Y	1097	TYR	CA-C-N	5.73	127.89	120.44
2	Y	1097	TYR	C-N-CA	5.73	127.89	120.44
2	Y	1352	ASN	N-CA-CB	5.73	119.98	110.47
3	Z	176	SER	N-CA-C	-5.73	97.82	108.02
5	B	532	ALA	O-C-N	-5.73	115.62	122.15
7	M	1337	PRO	CA-C-N	5.73	127.96	120.28
7	M	1337	PRO	C-N-CA	5.73	127.96	120.28
8	N	421	PHE	CA-CB-CG	-5.73	108.07	113.80
7	O	751	PRO	CA-C-N	5.73	128.28	120.54
7	O	751	PRO	C-N-CA	5.73	128.28	120.54
7	O	1496	ASP	CB-CA-C	-5.73	101.88	110.88
9	S	572	CYS	CA-C-N	5.73	127.96	120.28
9	S	572	CYS	C-N-CA	5.73	127.96	120.28
8	N	207	ASP	N-CA-C	5.73	117.52	111.28
8	N	1124	ASP	CA-C-N	5.73	127.89	120.44
8	N	1124	ASP	C-N-CA	5.73	127.89	120.44
11	X	361	ASN	CA-CB-CG	-5.73	106.87	112.60
4	A	640	LEU	N-CA-C	-5.73	106.21	113.43
9	Q	619	PHE	CA-C-N	5.73	127.89	120.44
9	Q	619	PHE	C-N-CA	5.73	127.89	120.44
6	I	456	ARG	NH1-CZ-NH2	-5.73	111.85	119.30
7	O	325	PHE	CA-CB-CG	5.73	119.53	113.80
7	O	1006	LEU	CA-C-N	5.73	127.95	120.28
7	O	1006	LEU	C-N-CA	5.73	127.95	120.28
8	P	1380	ASP	CA-C-N	5.73	127.95	120.28
8	P	1380	ASP	C-N-CA	5.73	127.95	120.28
2	Y	1318	HIS	N-CA-C	5.73	117.52	111.28
3	Z	1383	VAL	N-CA-C	5.73	116.50	110.72
4	A	655	PHE	CA-CB-CG	5.73	119.53	113.80
5	B	419	LEU	O-C-N	-5.73	115.23	122.27
3	1	1351	TYR	CB-CG-CD2	-5.73	112.21	120.80
7	O	50	GLN	CB-CA-C	-5.73	101.85	110.90
7	O	1084	LEU	CA-C-O	-5.73	114.35	120.42
8	P	948	LEU	O-C-N	-5.73	115.91	122.09
2	Y	381	VAL	N-CA-CB	5.72	116.96	110.72
5	E	407	GLU	CA-C-N	5.72	127.77	120.56
5	E	407	GLU	C-N-CA	5.72	127.77	120.56
8	N	620	ASN	CA-C-O	-5.72	114.78	120.90
9	Q	52	ARG	CA-C-O	5.72	127.72	121.02
2	0	381	VAL	N-CA-CB	5.72	116.96	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1	612	TYR	N-CA-CB	5.72	119.56	110.57
3	1	1080	VAL	CA-CB-CG1	5.72	120.13	110.40
4	G	655	PHE	CA-CB-CG	5.72	119.52	113.80
7	O	421	ILE	N-CA-C	-5.72	100.10	108.11
7	O	1505	HIS	ND1-CE1-NE2	5.72	114.12	108.40
9	S	278	LEU	CA-C-O	-5.72	114.48	120.55
9	T	711	LYS	O-C-N	5.72	128.68	122.15
3	Z	612	TYR	N-CA-CB	5.72	119.55	110.57
3	Z	851	ASP	CB-CA-C	-5.72	99.68	110.67
8	N	1193	ASN	CA-C-O	-5.72	114.81	120.82
9	Q	382	LEU	CA-C-N	5.72	125.73	119.89
9	Q	382	LEU	C-N-CA	5.72	125.73	119.89
9	R	699	ASN	CA-C-O	-5.72	115.17	121.58
3	1	347	VAL	CA-C-O	-5.72	114.41	120.53
3	1	1391	LYS	N-CA-CB	5.72	120.23	110.50
7	O	1553	LEU	N-CA-CB	5.72	120.40	110.39
8	P	657	CYS	CA-C-O	-5.72	114.48	120.55
2	Y	879	ASP	CA-C-N	5.72	128.73	120.38
2	Y	879	ASP	C-N-CA	5.72	128.73	120.38
2	Y	994	SER	N-CA-C	-5.72	105.96	113.17
5	H	294	LYS	CA-C-O	5.72	121.94	118.33
7	O	1477	ASP	N-CA-C	5.72	117.52	111.28
3	Z	707	PRO	CB-CA-C	5.72	120.97	110.10
7	O	7	PRO	N-CA-C	-5.72	105.58	113.53
7	O	112	TYR	CB-CG-CD1	-5.72	112.22	120.80
9	S	450	ASN	CA-C-O	-5.72	112.58	119.27
3	Z	1391	LYS	N-CA-CB	5.72	120.22	110.50
7	M	1424	GLU	CB-CA-C	-5.72	101.90	110.88
8	N	1418	LEU	CB-CA-C	-5.72	101.66	110.81
8	P	569	LEU	N-CA-CB	5.72	118.53	110.12
2	Y	297	HIS	CE1-NE2-CD2	-5.72	103.28	109.00
2	Y	1445	ASN	CB-CG-ND2	-5.72	107.82	116.40
6	F	397	ALA	CA-C-O	-5.72	114.49	120.55
7	M	255	LEU	CA-C-N	5.72	127.87	120.44
7	M	255	LEU	C-N-CA	5.72	127.87	120.44
8	N	629	ILE	N-CA-CB	5.72	117.52	111.00
3	1	765	PHE	O-C-N	5.72	127.96	122.07
5	K	523	LEU	CA-C-N	5.72	127.87	120.44
5	K	523	LEU	C-N-CA	5.72	127.87	120.44
7	O	655	LYS	CB-CA-C	-5.72	101.91	110.88
3	Z	1189	LYS	CA-C-N	5.71	127.87	120.44
3	Z	1189	LYS	C-N-CA	5.71	127.87	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	112	TYR	CB-CG-CD1	-5.71	112.23	120.80
8	N	1433	ILE	CA-C-N	5.71	131.56	122.93
8	N	1433	ILE	C-N-CA	5.71	131.56	122.93
9	R	792	SER	N-CA-CB	5.71	118.36	109.85
7	O	100	ASN	CB-CG-ND2	-5.71	107.83	116.40
7	O	255	LEU	CA-C-N	5.71	127.87	120.44
7	O	255	LEU	C-N-CA	5.71	127.87	120.44
7	O	266	ASP	N-CA-C	-5.71	100.48	108.54
8	P	452	PHE	CA-CB-CG	-5.71	108.09	113.80
9	S	355	GLU	N-CA-C	5.71	118.28	111.71
3	Z	346	GLU	N-CA-C	-5.71	98.58	108.69
4	A	800	HIS	ND1-CE1-NE2	5.71	114.11	108.40
5	K	407	GLU	CA-C-N	5.71	127.76	120.56
5	K	407	GLU	C-N-CA	5.71	127.76	120.56
9	S	294	MET	CG-SD-CE	-5.71	88.33	100.90
2	Y	928	GLY	CA-C-N	5.71	127.93	120.28
2	Y	928	GLY	C-N-CA	5.71	127.93	120.28
3	Z	1382	TYR	CA-C-N	5.71	128.53	120.42
3	Z	1382	TYR	C-N-CA	5.71	128.53	120.42
5	B	436	MET	N-CA-CB	5.71	118.35	110.07
7	M	655	LYS	CB-CA-C	-5.71	101.91	110.88
8	N	96	SER	CA-C-N	5.71	127.93	120.28
8	N	96	SER	C-N-CA	5.71	127.93	120.28
8	N	429	LYS	CA-C-N	5.71	128.50	120.28
8	N	429	LYS	C-N-CA	5.71	128.50	120.28
9	Q	827	GLU	CA-C-O	5.71	126.54	119.97
2	0	1445	ASN	CB-CG-ND2	-5.71	107.83	116.40
5	K	356	GLU	CA-C-N	5.71	127.28	120.14
5	K	356	GLU	C-N-CA	5.71	127.28	120.14
5	K	457	ASN	O-C-N	-5.71	114.68	122.33
7	O	133	GLU	CA-C-N	5.71	127.93	120.28
7	O	133	GLU	C-N-CA	5.71	127.93	120.28
7	O	1423	SER	CA-C-N	-5.71	113.02	120.44
7	O	1423	SER	C-N-CA	-5.71	113.02	120.44
8	P	1401	SER	CA-C-N	5.71	127.94	120.28
8	P	1401	SER	C-N-CA	5.71	127.94	120.28
9	Q	294	MET	CA-C-O	5.71	128.07	121.28
11	V	361	ASN	CA-CB-CG	-5.71	106.89	112.60
3	1	707	PRO	CB-CA-C	5.71	120.95	110.10
5	H	532	ALA	O-C-N	-5.71	115.64	122.15
9	Q	294	MET	CG-SD-CE	-5.71	88.34	100.90
9	Q	450	ASN	CA-C-O	-5.71	112.59	119.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	R	534	PHE	CA-C-N	5.71	127.86	120.44
9	R	534	PHE	C-N-CA	5.71	127.86	120.44
2	0	994	SER	N-CA-C	-5.71	105.98	113.17
2	0	1423	PHE	CA-C-N	5.71	128.21	120.44
2	0	1423	PHE	C-N-CA	5.71	128.21	120.44
3	1	1212	PRO	CA-C-N	5.71	131.45	122.49
3	1	1212	PRO	C-N-CA	5.71	131.45	122.49
8	P	710	GLN	N-CA-CB	5.71	118.61	110.16
9	T	414	LEU	N-CA-CB	5.71	118.35	110.07
9	T	792	SER	N-CA-CB	5.71	118.36	109.85
2	0	1170	ARG	CA-C-N	5.71	130.25	120.72
2	0	1170	ARG	C-N-CA	5.71	130.25	120.72
3	1	629	LEU	CA-C-N	5.71	125.38	119.05
3	1	629	LEU	C-N-CA	5.71	125.38	119.05
3	1	1017	ASP	CA-CB-CG	-5.71	106.89	112.60
7	O	749	ILE	CB-CA-C	5.71	119.10	111.85
2	Y	89	HIS	CA-C-O	-5.70	115.28	121.44
2	Y	699	ALA	CA-C-N	5.70	127.92	120.28
2	Y	699	ALA	C-N-CA	5.70	127.92	120.28
2	Y	1141	LEU	O-C-N	5.70	128.17	122.12
2	Y	1292	GLU	CB-CG-CD	-5.70	102.90	112.60
2	Y	1469	ASN	CA-C-N	5.70	128.98	120.31
2	Y	1469	ASN	C-N-CA	5.70	128.98	120.31
5	E	387	GLN	N-CA-C	5.70	119.50	112.54
9	R	782	ILE	CA-C-O	-5.70	115.02	120.95
2	0	1361	MET	CA-C-N	5.70	127.92	120.28
2	0	1361	MET	C-N-CA	5.70	127.92	120.28
7	O	813	GLU	N-CA-CB	5.70	118.50	110.12
5	E	311	PHE	CA-CB-CG	-5.70	108.10	113.80
9	R	114	ARG	O-C-N	-5.70	115.01	122.59
4	G	720	ALA	N-CA-CB	5.70	118.44	109.94
7	O	1021	HIS	CG-CD2-NE2	5.70	112.90	107.20
9	S	797	SER	N-CA-C	5.70	118.27	111.71
3	Z	758	SER	N-CA-C	-5.70	105.07	111.28
3	Z	1080	VAL	CA-CB-CG1	5.70	120.09	110.40
5	B	364	VAL	CA-C-O	-5.70	114.31	120.47
7	M	421	ILE	CA-C-O	5.70	126.38	120.39
7	M	940	ASN	CA-CB-CG	-5.70	106.90	112.60
8	N	948	LEU	O-C-N	-5.70	115.93	122.09
2	0	1401	THR	N-CA-C	-5.70	105.05	112.23
3	1	821	ALA	N-CA-CB	5.70	118.50	110.12
7	O	201	VAL	CA-C-N	5.70	127.85	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	201	VAL	C-N-CA	5.70	127.85	120.44
7	O	554	SER	CA-C-N	5.70	128.70	120.38
7	O	554	SER	C-N-CA	5.70	128.70	120.38
3	Z	358	SER	N-CA-C	-5.70	102.09	110.52
7	M	201	VAL	CA-C-N	5.70	127.85	120.44
7	M	201	VAL	C-N-CA	5.70	127.85	120.44
7	M	1084	LEU	CA-C-O	-5.70	114.38	120.42
7	M	1496	ASP	CB-CA-C	-5.70	101.94	110.88
8	N	710	GLN	N-CA-CB	5.70	118.59	110.16
8	N	1089	SER	CA-C-O	-5.70	114.61	120.99
2	0	1292	GLU	CB-CG-CD	-5.70	102.91	112.60
5	H	509	ILE	CA-C-O	5.70	126.67	120.57
7	O	500	TRP	CA-C-O	-5.70	112.35	118.79
7	O	1337	PRO	CA-C-N	5.70	127.92	120.28
7	O	1337	PRO	C-N-CA	5.70	127.92	120.28
7	O	1424	GLU	CB-CA-C	-5.70	101.93	110.88
2	Y	1361	MET	CA-C-N	5.70	127.91	120.28
2	Y	1361	MET	C-N-CA	5.70	127.91	120.28
4	A	709	ASN	OD1-CG-ND2	-5.70	116.90	122.60
7	M	7	PRO	N-CA-C	-5.70	105.61	113.53
2	0	1469	ASN	CA-C-N	5.70	128.97	120.31
2	0	1469	ASN	C-N-CA	5.70	128.97	120.31
4	J	718	THR	N-CA-C	5.70	117.57	111.36
7	M	37	LEU	CA-C-N	5.70	130.24	121.53
7	M	37	LEU	C-N-CA	5.70	130.24	121.53
7	M	484	SER	N-CA-CB	5.70	118.49	110.12
2	0	1030	ASN	CA-C-N	5.70	127.84	120.44
2	0	1030	ASN	C-N-CA	5.70	127.84	120.44
5	K	524	ASN	OD1-CG-ND2	-5.70	116.91	122.60
7	O	1272	LEU	N-CA-CB	5.70	118.49	110.12
7	M	500	TRP	CA-C-O	-5.69	112.36	118.79
9	S	366	SER	N-CA-CB	5.69	118.49	110.12
7	M	1061	ASN	CA-CB-CG	-5.69	106.91	112.60
9	Q	336	LEU	CA-C-O	-5.69	114.84	120.82
2	0	1318	HIS	N-CA-C	5.69	117.48	111.28
3	1	1058	CYS	N-CA-C	5.69	117.48	111.28
7	O	37	LEU	CA-C-N	5.69	130.24	121.53
7	O	37	LEU	C-N-CA	5.69	130.24	121.53
9	S	565	GLY	CA-C-N	5.69	125.06	118.85
9	S	565	GLY	C-N-CA	5.69	125.06	118.85
3	Z	1068	ARG	CA-C-O	5.69	127.49	120.15
3	Z	1123	PHE	N-CA-CB	5.69	119.14	109.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	0	276	HIS	CE1-NE2-CD2	-5.69	103.31	109.00
3	1	1248	ALA	N-CA-CB	5.69	117.72	110.04
8	P	319	PRO	N-CA-C	-5.69	106.11	113.57
8	P	421	PHE	CA-CB-CG	-5.69	108.11	113.80
2	Y	1236	LEU	N-CA-C	5.69	117.16	111.07
7	M	1240	HIS	CA-C-N	5.69	128.37	120.29
7	M	1240	HIS	C-N-CA	5.69	128.37	120.29
9	R	36	SER	N-CA-C	5.69	118.58	110.10
5	H	436	MET	N-CA-CB	5.69	118.32	110.07
7	O	13	ARG	NE-CZ-NH2	-5.69	114.08	119.20
2	Y	1000	ASP	CA-C-N	5.69	127.72	120.56
2	Y	1000	ASP	C-N-CA	5.69	127.72	120.56
3	Z	1369	LEU	CA-C-O	5.69	126.63	120.43
7	M	198	TYR	O-C-N	-5.69	116.21	122.07
7	M	421	ILE	N-CA-C	-5.69	100.15	108.11
7	M	750	TRP	CA-C-O	-5.69	112.37	120.16
8	N	1270	LYS	CA-CB-CG	5.69	125.47	114.10
8	N	1445	THR	N-CA-CB	5.69	118.48	110.12
2	0	699	ALA	CA-C-N	5.69	127.90	120.28
2	0	699	ALA	C-N-CA	5.69	127.90	120.28
3	1	964	VAL	N-CA-C	5.69	116.42	110.62
7	O	374	THR	O-C-N	-5.69	115.03	122.59
8	P	438	SER	CA-C-O	5.69	128.64	120.51
4	A	709	ASN	CB-CG-OD1	5.69	132.17	120.80
7	M	1006	LEU	CA-C-N	5.69	127.90	120.28
7	M	1006	LEU	C-N-CA	5.69	127.90	120.28
2	0	875	GLY	CA-C-N	5.69	131.75	121.06
2	0	875	GLY	C-N-CA	5.69	131.75	121.06
2	0	944	LEU	CA-C-N	5.69	129.45	120.47
2	0	944	LEU	C-N-CA	5.69	129.45	120.47
3	1	1383	VAL	N-CA-C	5.69	116.46	110.72
2	Y	1069	ASN	CB-CA-C	-5.68	101.19	110.85
7	M	266	ASP	N-CA-C	-5.68	100.52	108.54
3	1	358	SER	N-CA-C	-5.68	102.11	110.52
7	O	500	TRP	O-C-N	5.68	128.29	122.09
7	O	1607	LEU	N-CA-C	5.68	117.15	111.07
8	P	1124	ASP	CA-C-N	5.68	127.83	120.44
8	P	1124	ASP	C-N-CA	5.68	127.83	120.44
9	T	314	LYS	N-CA-C	-5.68	100.85	108.86
8	N	1143	GLN	CA-CB-CG	5.68	125.46	114.10
8	N	1420	VAL	CA-CB-CG2	-5.68	100.74	110.40
2	0	1069	ASN	CB-CA-C	-5.68	101.19	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1	346	GLU	N-CA-C	-5.68	98.63	108.69
3	1	836	TYR	N-CA-C	5.68	118.08	110.35
3	1	1123	PHE	N-CA-CB	5.68	119.13	109.87
3	1	1132	GLU	CA-C-N	5.68	127.89	120.28
3	1	1132	GLU	C-N-CA	5.68	127.89	120.28
9	S	160	TRP	O-C-N	5.68	127.92	122.07
9	T	699	ASN	CA-C-O	-5.68	115.22	121.58
7	M	63	THR	N-CA-C	-5.68	100.14	109.40
7	M	1329	LEU	CA-C-N	5.68	128.36	120.29
7	M	1329	LEU	C-N-CA	5.68	128.36	120.29
7	M	1494	ASN	CA-C-N	5.68	127.83	120.44
7	M	1494	ASN	C-N-CA	5.68	127.83	120.44
8	N	319	PRO	N-CA-C	-5.68	106.13	113.57
2	0	1097	TYR	CA-C-N	5.68	127.83	120.44
2	0	1097	TYR	C-N-CA	5.68	127.83	120.44
5	H	365	GLN	OE1-CD-NE2	5.68	128.28	122.60
8	P	177	VAL	N-CA-C	5.68	115.87	110.53
8	P	1143	GLN	CA-CB-CG	5.68	125.46	114.10
7	M	1607	LEU	N-CA-C	5.68	117.15	111.07
9	Q	487	LEU	N-CA-C	-5.68	102.78	110.68
2	0	297	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
7	O	228	PHE	CA-CB-CG	-5.68	108.12	113.80
7	O	540	ALA	CA-C-N	5.68	128.35	120.29
7	O	540	ALA	C-N-CA	5.68	128.35	120.29
7	O	1061	ASN	CA-CB-CG	-5.68	106.92	112.60
9	T	534	PHE	CA-C-N	5.68	127.82	120.44
9	T	534	PHE	C-N-CA	5.68	127.82	120.44
2	Y	1170	ARG	CA-C-N	5.68	130.20	120.72
2	Y	1170	ARG	C-N-CA	5.68	130.20	120.72
7	M	813	GLU	N-CA-CB	5.68	118.47	110.12
7	O	484	SER	N-CA-CB	5.68	118.47	110.12
8	P	112	ILE	CA-C-O	-5.68	115.15	121.17
2	Y	1414	SER	CA-C-N	5.68	127.71	120.56
2	Y	1414	SER	C-N-CA	5.68	127.71	120.56
9	R	414	LEU	N-CA-CB	5.68	118.30	110.07
3	1	1043	VAL	O-C-N	-5.68	115.98	121.83
5	K	538	LYS	N-CA-CB	5.68	118.56	110.16
5	K	540	LYS	N-CA-CB	5.68	118.38	110.04
9	S	487	LEU	N-CA-C	-5.68	102.79	110.68
3	1	409	ILE	CA-C-O	5.67	127.31	120.67
8	P	1288	PHE	N-CA-C	5.67	118.40	111.82
8	N	405	SER	O-C-N	-5.67	115.58	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	1412	TYR	CG-CD2-CE2	-5.67	112.69	121.20
7	M	1477	ASP	N-CA-C	5.67	117.46	111.28
8	N	452	PHE	CA-CB-CG	-5.67	108.13	113.80
9	Q	565	GLY	CA-C-N	5.67	125.03	118.85
9	Q	565	GLY	C-N-CA	5.67	125.03	118.85
9	S	341	LEU	O-C-N	5.67	128.13	122.12
3	Z	821	ALA	N-CA-CB	5.67	118.45	110.12
6	L	390	ILE	CA-C-N	5.67	128.34	120.29
6	L	390	ILE	C-N-CA	5.67	128.34	120.29
5	B	294	LYS	CA-C-O	5.67	121.90	118.33
7	M	1021	HIS	CG-CD2-NE2	5.67	112.87	107.20
8	N	438	SER	CA-C-N	5.67	127.81	120.44
8	N	438	SER	C-N-CA	5.67	127.81	120.44
8	N	949	LEU	CA-C-N	5.67	127.81	120.44
8	N	949	LEU	C-N-CA	5.67	127.81	120.44
7	O	1269	GLU	CA-C-N	5.67	127.88	120.28
7	O	1269	GLU	C-N-CA	5.67	127.88	120.28
8	P	389	PHE	CA-CB-CG	-5.67	108.13	113.80
9	S	336	LEU	CA-C-O	-5.67	114.87	120.82
10	W	358	LYS	CA-C-N	5.67	128.92	120.87
10	W	358	LYS	C-N-CA	5.67	128.92	120.87
2	Y	875	GLY	CA-C-N	5.67	131.71	121.06
2	Y	875	GLY	C-N-CA	5.67	131.71	121.06
5	E	538	LYS	N-CA-CB	5.67	118.55	110.16
8	N	1380	ASP	CA-C-N	5.67	127.87	120.28
8	N	1380	ASP	C-N-CA	5.67	127.87	120.28
9	Q	734	GLU	CA-C-O	-5.67	114.41	120.42
9	R	771	ILE	CA-C-O	-5.67	114.03	118.85
10	U	358	LYS	CA-C-N	5.67	128.92	120.87
10	U	358	LYS	C-N-CA	5.67	128.92	120.87
2	0	608	ILE	N-CA-C	-5.67	99.39	107.77
2	0	1414	SER	CA-C-N	5.67	127.70	120.56
2	0	1414	SER	C-N-CA	5.67	127.70	120.56
7	O	1638	ILE	O-C-N	-5.67	116.37	121.87
2	Y	276	HIS	CE1-NE2-CD2	-5.67	103.33	109.00
6	F	390	ILE	CA-C-N	5.67	128.34	120.29
6	F	390	ILE	C-N-CA	5.67	128.34	120.29
5	H	364	VAL	CA-C-O	-5.67	114.35	120.47
4	J	721	LEU	CA-C-N	5.67	127.87	120.28
4	J	721	LEU	C-N-CA	5.67	127.87	120.28
7	O	1494	ASN	CA-C-N	5.67	127.81	120.44
7	O	1494	ASN	C-N-CA	5.67	127.81	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	1621	ALA	N-CA-C	5.67	117.45	111.28
4	A	656	GLU	CA-C-O	-5.66	114.42	120.42
7	M	1328	ILE	CA-C-N	5.66	128.33	120.29
7	M	1328	ILE	C-N-CA	5.66	128.33	120.29
9	Q	366	SER	N-CA-CB	5.66	118.45	110.12
9	S	294	MET	CA-C-O	5.66	128.02	121.28
3	Z	629	LEU	CA-C-N	5.66	125.33	119.05
3	Z	629	LEU	C-N-CA	5.66	125.33	119.05
9	Q	572	CYS	CA-C-N	5.66	127.87	120.28
9	Q	572	CYS	C-N-CA	5.66	127.87	120.28
4	D	777	ASN	OD1-CG-ND2	-5.66	116.94	122.60
8	N	389	PHE	CA-CB-CG	-5.66	108.14	113.80
2	0	299	SER	N-CA-C	-5.66	102.14	110.52
2	0	521	LYS	N-CA-C	5.66	117.37	110.41
4	G	709	ASN	OD1-CG-ND2	-5.66	116.94	122.60
3	Z	1248	ALA	N-CA-CB	5.66	117.68	110.04
7	M	1411	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
7	O	425	ASP	N-CA-C	5.66	117.90	111.11
7	O	750	TRP	CA-C-O	-5.66	112.41	120.16
8	P	1433	ILE	CA-C-N	5.66	131.47	122.93
8	P	1433	ILE	C-N-CA	5.66	131.47	122.93
7	M	1423	SER	CA-C-N	-5.66	113.09	120.44
7	M	1423	SER	C-N-CA	-5.66	113.09	120.44
9	S	827	GLU	CA-C-O	5.66	126.47	119.97
7	M	374	THR	O-C-N	-5.66	115.07	122.59
8	N	1434	ASN	CA-C-N	5.66	132.34	121.54
8	N	1434	ASN	C-N-CA	5.66	132.34	121.54
8	N	1459	LYS	N-CA-C	5.66	117.53	111.36
3	1	1366	ILE	CA-C-N	5.66	127.86	120.28
3	1	1366	ILE	C-N-CA	5.66	127.86	120.28
4	G	656	GLU	CA-C-O	-5.66	114.42	120.42
7	O	774	ARG	NH1-CZ-NH2	5.66	126.65	119.30
8	N	438	SER	CA-C-O	5.65	128.60	120.51
9	R	787	HIS	CB-CG-CD2	-5.65	123.85	131.20
7	O	106	TYR	CA-C-O	-5.65	114.88	120.82
7	O	1328	ILE	CA-C-N	5.65	128.32	120.29
7	O	1328	ILE	C-N-CA	5.65	128.32	120.29
8	P	1263	TYR	CA-C-O	5.65	126.54	120.55
7	M	133	GLU	CA-C-N	5.65	127.85	120.28
7	M	133	GLU	C-N-CA	5.65	127.85	120.28
7	M	1412	TYR	CG-CD2-CE2	-5.65	112.72	121.20
3	1	908	GLU	CA-C-N	5.65	127.85	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1	908	GLU	C-N-CA	5.65	127.85	120.28
7	O	762	ALA	N-CA-CB	5.65	118.20	110.01
2	Y	1401	THR	N-CA-C	-5.65	105.11	112.23
3	Z	1346	LEU	CA-C-N	5.65	128.20	120.46
3	Z	1346	LEU	C-N-CA	5.65	128.20	120.46
2	0	1336	ILE	CA-C-O	-5.65	115.18	121.17
3	1	1111	ALA	CA-C-N	5.65	128.31	120.29
3	1	1111	ALA	C-N-CA	5.65	128.31	120.29
6	L	308	ILE	CA-C-N	5.65	125.01	118.85
6	L	308	ILE	C-N-CA	5.65	125.01	118.85
7	O	63	THR	N-CA-C	-5.65	100.19	109.40
2	Y	949	PHE	N-CA-C	5.65	118.17	111.33
3	1	1240	ARG	CA-C-N	5.65	127.78	120.44
3	1	1240	ARG	C-N-CA	5.65	127.78	120.44
7	O	1116	VAL	N-CA-CB	5.65	118.94	110.13
8	P	588	HIS	CG-CD2-NE2	5.65	112.85	107.20
5	B	397	ARG	O-C-N	5.65	128.11	122.12
7	M	180	LYS	CA-C-O	-5.65	114.56	120.55
7	M	1245	LEU	CA-C-N	5.65	128.31	120.29
7	M	1245	LEU	C-N-CA	5.65	128.31	120.29
8	N	134	ARG	NE-CZ-NH1	-5.65	115.85	121.50
8	N	753	TYR	CA-C-N	5.65	128.41	120.28
8	N	753	TYR	C-N-CA	5.65	128.41	120.28
9	Q	573	HIS	CA-C-N	5.65	128.31	120.29
9	Q	573	HIS	C-N-CA	5.65	128.31	120.29
8	P	1445	THR	N-CA-CB	5.65	118.42	110.12
9	S	481	THR	CA-C-N	5.65	127.85	120.28
9	S	481	THR	C-N-CA	5.65	127.85	120.28
9	S	619	PHE	CA-C-N	5.65	127.78	120.44
9	S	619	PHE	C-N-CA	5.65	127.78	120.44
3	Z	1111	ALA	CA-C-N	5.65	128.31	120.29
3	Z	1111	ALA	C-N-CA	5.65	128.31	120.29
7	M	762	ALA	N-CA-CB	5.65	118.20	110.01
8	N	1401	SER	CA-C-N	5.65	127.85	120.28
8	N	1401	SER	C-N-CA	5.65	127.85	120.28
7	O	668	ARG	CA-C-N	5.65	132.32	121.54
7	O	668	ARG	C-N-CA	5.65	132.32	121.54
8	P	613	GLU	CA-C-O	-5.65	113.97	120.24
8	P	985	GLU	N-CA-C	-5.65	104.98	112.94
4	D	721	LEU	CA-C-N	5.64	127.84	120.28
4	D	721	LEU	C-N-CA	5.64	127.84	120.28
2	0	511	LYS	N-CA-CB	5.64	118.19	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	180	LYS	CA-C-O	-5.64	114.57	120.55
5	E	363	GLN	CA-CB-CG	-5.64	102.81	114.10
5	E	457	ASN	O-C-N	-5.64	114.77	122.33
7	M	1441	ILE	N-CA-C	5.64	115.84	110.42
3	1	1030	ILE	O-C-N	5.64	129.62	122.57
3	1	1235	GLN	O-C-N	5.64	128.10	122.12
9	S	734	GLU	CA-C-O	-5.64	114.44	120.42
8	N	1047	LEU	N-CA-CB	5.64	118.41	110.12
4	G	709	ASN	CB-CG-OD1	5.64	132.08	120.80
3	Z	1064	VAL	CA-C-N	5.64	128.40	120.28
3	Z	1064	VAL	C-N-CA	5.64	128.40	120.28
2	0	928	GLY	CA-C-N	5.64	127.84	120.28
2	0	928	GLY	C-N-CA	5.64	127.84	120.28
7	O	682	ASP	N-CA-C	-5.64	105.74	113.30
7	O	1182	ASN	N-CA-C	5.64	118.36	111.82
8	P	42	GLN	O-C-N	5.64	128.10	122.12
3	Z	409	ILE	CA-C-O	5.64	127.27	120.67
3	Z	908	GLU	CA-C-N	5.64	127.83	120.28
3	Z	908	GLU	C-N-CA	5.64	127.83	120.28
5	K	387	GLN	N-CA-C	5.64	119.42	112.54
7	O	494	GLU	CA-C-O	5.64	126.45	119.97
2	Y	944	LEU	CA-C-N	5.64	129.38	120.47
2	Y	944	LEU	C-N-CA	5.64	129.38	120.47
3	Z	830	MET	N-CA-C	-5.64	105.16	113.61
8	N	42	GLN	O-C-N	5.64	128.09	122.12
2	0	575	LYS	N-CA-CB	5.64	118.50	110.44
3	1	244	LEU	O-C-N	5.64	129.95	123.02
3	1	735	SER	O-C-N	5.64	128.49	121.84
6	L	397	ALA	CA-C-O	-5.64	114.57	120.55
7	O	940	ASN	CA-CB-CG	-5.64	106.96	112.60
7	O	1016	THR	CA-C-N	5.64	129.10	120.82
7	O	1016	THR	C-N-CA	5.64	129.10	120.82
7	O	1091	LEU	CA-C-O	-5.64	113.14	119.79
8	P	1420	VAL	CA-CB-CG2	-5.64	100.82	110.40
2	Y	1203	TYR	N-CA-CB	5.63	118.50	110.16
3	Z	136	THR	CA-C-N	5.63	125.16	119.19
3	Z	136	THR	C-N-CA	5.63	125.16	119.19
8	N	895	HIS	N-CA-C	-5.63	106.76	113.97
3	1	1113	ASP	CB-CA-C	-5.63	101.44	110.79
7	O	701	THR	CA-C-O	5.63	124.72	118.52
8	P	195	LEU	CA-C-N	5.63	127.83	120.28
8	P	195	LEU	C-N-CA	5.63	127.83	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	753	TYR	CA-C-N	5.63	128.40	120.28
8	P	753	TYR	C-N-CA	5.63	128.40	120.28
8	P	896	PHE	CA-C-N	5.63	128.15	120.54
8	P	896	PHE	C-N-CA	5.63	128.15	120.54
3	Z	1235	GLN	O-C-N	5.63	128.09	122.12
9	S	225	SER	N-CA-C	5.63	117.50	111.36
5	B	461	ALA	CA-C-N	5.63	127.76	120.44
5	B	461	ALA	C-N-CA	5.63	127.76	120.44
7	M	1309	LEU	N-CA-C	5.63	117.42	111.28
8	N	195	LEU	CA-C-N	5.63	127.83	120.28
8	N	195	LEU	C-N-CA	5.63	127.83	120.28
9	R	720	ILE	O-C-N	-5.63	116.03	121.83
3	1	830	MET	N-CA-C	-5.63	105.16	113.61
7	O	1545	ARG	NE-CZ-NH2	-5.63	114.13	119.20
8	P	949	LEU	CA-C-N	5.63	127.76	120.44
8	P	949	LEU	C-N-CA	5.63	127.76	120.44
9	S	573	HIS	CA-C-N	5.63	128.29	120.29
9	S	573	HIS	C-N-CA	5.63	128.29	120.29
2	Y	110	HIS	ND1-CE1-NE2	5.63	114.03	108.40
3	Z	1188	ARG	CA-C-N	5.63	127.76	120.44
3	Z	1188	ARG	C-N-CA	5.63	127.76	120.44
2	0	1000	ASP	CA-C-N	5.63	127.65	120.56
2	0	1000	ASP	C-N-CA	5.63	127.65	120.56
2	0	1236	LEU	N-CA-C	5.63	117.09	111.07
6	I	378	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
7	O	626	ASP	CA-CB-CG	-5.63	106.97	112.60
8	P	1419	LYS	CG-CD-CE	5.63	124.25	111.30
3	Z	244	LEU	O-C-N	5.63	129.94	123.02
5	B	373	ARG	N-CA-C	5.63	117.50	111.36
6	F	271	PRO	CA-C-N	5.63	127.82	120.28
6	F	271	PRO	C-N-CA	5.63	127.82	120.28
7	M	817	ASN	CA-C-O	-5.63	114.45	120.42
7	M	1116	VAL	N-CA-CB	5.63	118.91	110.13
10	U	335	MET	N-CA-C	-5.63	99.84	109.24
2	0	450	GLY	N-CA-C	5.63	119.85	111.18
3	1	1188	ARG	O-C-N	-5.63	116.15	122.12
3	1	1329	ILE	CA-C-N	5.63	127.76	120.44
3	1	1329	ILE	C-N-CA	5.63	127.76	120.44
4	J	702	ARG	N-CA-C	-5.63	106.25	113.23
8	P	405	SER	O-C-N	-5.63	115.63	122.22
8	P	1434	ASN	CA-C-N	5.63	132.29	121.54
8	P	1434	ASN	C-N-CA	5.63	132.29	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	1459	LYS	N-CA-C	5.63	117.50	111.36
9	T	413	LYS	N-CA-C	5.63	117.09	111.07
9	T	787	HIS	CB-CG-CD2	-5.63	123.88	131.20
2	Y	575	LYS	N-CA-CB	5.63	118.48	110.44
3	Z	356	THR	N-CA-C	-5.63	99.84	109.24
9	Q	341	LEU	O-C-N	5.63	128.08	122.12
3	1	1064	VAL	CA-C-N	5.63	128.38	120.28
3	1	1064	VAL	C-N-CA	5.63	128.38	120.28
3	1	1244	SER	N-CA-CB	5.63	118.39	110.12
7	O	1411	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
7	O	1602	VAL	CA-C-N	5.63	125.47	119.28
7	O	1602	VAL	C-N-CA	5.63	125.47	119.28
9	S	534	PHE	CA-CB-CG	5.63	119.43	113.80
9	T	540	ASN	OD1-CG-ND2	5.63	128.23	122.60
5	B	360	GLN	CA-C-O	5.62	126.38	120.42
7	M	425	ASP	N-CA-C	5.62	117.86	111.11
7	O	1562	ASP	CA-C-O	-5.62	115.67	122.03
8	P	1228	ASP	CA-CB-CG	-5.62	106.97	112.60
7	M	45	ASN	N-CA-CB	5.62	118.39	110.12
7	M	579	ARG	CA-C-N	5.62	127.82	120.28
7	M	579	ARG	C-N-CA	5.62	127.82	120.28
7	M	1081	GLU	CB-CA-C	-5.62	102.05	110.88
9	Q	709	LYS	CA-C-N	5.62	127.81	120.28
9	Q	709	LYS	C-N-CA	5.62	127.81	120.28
2	0	98	SER	N-CA-CB	5.62	120.28	111.56
6	I	293	HIS	CB-CA-C	5.62	118.75	111.50
5	K	311	PHE	CA-CB-CG	-5.62	108.18	113.80
7	O	1108	ARG	N-CA-C	5.62	117.09	111.07
9	S	759	ASP	CA-C-N	5.62	127.81	120.28
9	S	759	ASP	C-N-CA	5.62	127.81	120.28
9	T	782	ILE	CA-C-O	-5.62	115.10	120.95
2	Y	299	SER	N-CA-C	-5.62	102.20	110.52
8	N	414	ASN	N-CA-CB	5.62	118.38	110.12
9	Q	494	TYR	CA-C-N	5.62	127.81	120.28
9	Q	494	TYR	C-N-CA	5.62	127.81	120.28
3	1	1270	ILE	CA-C-O	-5.62	114.89	120.85
5	H	360	GLN	CA-C-O	5.62	126.38	120.42
4	J	777	ASN	OD1-CG-ND2	-5.62	116.98	122.60
7	O	817	ASN	CA-C-O	-5.62	114.46	120.42
8	P	134	ARG	NE-CZ-NH1	-5.62	115.88	121.50
8	P	1257	LEU	CA-C-O	-5.62	114.59	120.55
9	S	642	LEU	CA-C-N	5.62	127.75	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	642	LEU	C-N-CA	5.62	127.75	120.44
9	T	720	ILE	O-C-N	-5.62	116.04	121.83
8	N	80	GLN	CA-C-N	-5.62	114.43	121.96
8	N	80	GLN	C-N-CA	-5.62	114.43	121.96
7	O	421	ILE	CA-C-O	5.62	126.29	120.39
7	O	1044	SER	CA-C-N	5.62	130.93	120.87
7	O	1044	SER	C-N-CA	5.62	130.93	120.87
8	P	895	HIS	N-CA-C	-5.62	106.78	113.97
2	Y	450	GLY	N-CA-C	5.62	119.83	111.18
7	M	557	ASN	CA-C-O	-5.62	114.47	120.42
7	M	626	ASP	CA-CB-CG	-5.62	106.98	112.60
7	M	1497	ALA	CA-C-N	5.62	127.81	120.28
7	M	1497	ALA	C-N-CA	5.62	127.81	120.28
2	0	445	ARG	CD-NE-CZ	5.62	132.27	124.40
5	K	363	GLN	CA-CB-CG	-5.62	102.86	114.10
3	Z	1058	CYS	N-CA-C	5.62	117.40	111.28
3	Z	1132	GLU	CA-C-N	5.62	127.81	120.28
3	Z	1132	GLU	C-N-CA	5.62	127.81	120.28
3	1	766	PHE	CB-CG-CD1	5.62	130.25	120.70
4	J	767	VAL	O-C-N	-5.62	114.12	121.82
5	K	462	ARG	N-CA-CB	5.62	118.38	110.12
9	S	629	ARG	CB-CA-C	-5.62	101.47	110.79
9	T	114	ARG	O-C-N	-5.62	115.12	122.59
3	Z	964	VAL	N-CA-C	5.62	116.35	110.62
5	E	462	ARG	N-CA-CB	5.62	118.38	110.12
7	M	1269	GLU	CA-C-N	5.62	127.80	120.28
7	M	1269	GLU	C-N-CA	5.62	127.80	120.28
8	N	20	ASN	CA-CB-CG	5.62	118.22	112.60
8	N	35	LYS	N-CA-C	5.62	117.48	111.36
9	R	48	GLU	CA-C-N	5.62	127.81	120.28
9	R	48	GLU	C-N-CA	5.62	127.81	120.28
2	0	949	PHE	N-CA-C	5.62	118.12	111.33
3	1	1346	LEU	CA-C-N	5.62	128.15	120.46
3	1	1346	LEU	C-N-CA	5.62	128.15	120.46
5	H	397	ARG	O-C-N	5.62	128.07	122.12
8	P	155	ILE	N-CA-CB	5.62	119.00	110.58
9	S	767	ILE	CA-C-N	5.62	127.84	120.60
9	S	767	ILE	C-N-CA	5.62	127.84	120.60
2	Y	1052	SER	CA-C-N	5.61	127.74	120.44
2	Y	1052	SER	C-N-CA	5.61	127.74	120.44
3	Z	245	ASN	CA-CB-CG	-5.61	106.99	112.60
7	M	713	PHE	CA-CB-CG	-5.61	108.19	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	J	634	ASN	N-CA-C	5.61	122.76	110.80
7	O	582	PHE	CB-CA-C	-5.61	101.31	110.85
8	P	80	GLN	CA-C-N	-5.61	114.44	121.96
8	P	80	GLN	C-N-CA	-5.61	114.44	121.96
8	P	429	LYS	CA-C-N	5.61	128.36	120.28
8	P	429	LYS	C-N-CA	5.61	128.36	120.28
8	P	1306	ASN	N-CA-C	-5.61	103.96	111.87
2	Y	954	ALA	CA-C-O	-5.61	113.75	120.54
2	Y	1030	ASN	CA-C-N	5.61	127.74	120.44
2	Y	1030	ASN	C-N-CA	5.61	127.74	120.44
7	M	500	TRP	O-C-N	5.61	128.21	122.09
3	1	136	THR	CA-C-N	5.61	125.14	119.19
3	1	136	THR	C-N-CA	5.61	125.14	119.19
7	O	34	ASN	OD1-CG-ND2	5.61	128.21	122.60
3	Z	1282	VAL	N-CA-C	-5.61	106.86	113.42
8	N	183	SER	N-CA-C	5.61	117.48	111.36
9	Q	262	SER	CA-C-O	-5.61	112.48	119.38
9	Q	555	GLU	O-C-N	-5.61	116.17	122.12
9	R	719	ASN	OD1-CG-ND2	5.61	128.21	122.60
2	0	1203	TYR	N-CA-CB	5.61	118.46	110.16
6	I	325	TYR	CA-C-O	-5.61	114.60	120.55
8	P	934	GLU	CB-CG-CD	5.61	122.14	112.60
9	T	48	GLU	CA-C-N	5.61	127.80	120.28
9	T	48	GLU	C-N-CA	5.61	127.80	120.28
2	Y	98	SER	N-CA-CB	5.61	120.25	111.56
7	M	1621	ALA	N-CA-C	5.61	117.39	111.28
2	0	1197	SER	CA-C-O	-5.61	114.60	120.55
6	C	325	TYR	CA-C-O	-5.61	114.61	120.55
7	M	1473	ASN	O-C-N	-5.61	115.26	122.83
9	R	532	ILE	O-C-N	-5.61	117.14	123.20
3	1	758	SER	N-CA-C	-5.61	105.17	111.28
3	1	1212	PRO	N-CD-CG	5.61	111.61	103.20
3	1	1369	LEU	CA-C-O	5.61	126.54	120.43
4	J	710	PHE	CA-C-N	5.61	127.80	120.28
4	J	710	PHE	C-N-CA	5.61	127.80	120.28
7	O	231	ILE	CA-C-N	5.61	130.08	120.72
7	O	231	ILE	C-N-CA	5.61	130.08	120.72
9	S	494	TYR	CA-C-N	5.61	127.79	120.28
9	S	494	TYR	C-N-CA	5.61	127.79	120.28
9	T	532	ILE	O-C-N	-5.61	117.14	123.20
3	Z	766	PHE	CB-CG-CD1	5.61	130.23	120.70
3	Z	1376	THR	CA-CB-OG1	5.61	118.01	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	934	GLU	CB-CG-CD	5.61	122.13	112.60
9	Q	534	PHE	CA-CB-CG	5.61	119.41	113.80
7	O	848	VAL	CA-C-O	-5.61	114.91	120.85
7	O	898	TYR	N-CA-C	-5.61	99.47	108.55
10	W	335	MET	N-CA-C	-5.61	99.88	109.24
2	0	1392	PRO	O-C-N	5.60	128.50	122.17
3	1	1376	THR	CA-CB-OG1	5.60	118.01	109.60
7	O	1497	ALA	CA-C-N	5.60	127.79	120.28
7	O	1497	ALA	C-N-CA	5.60	127.79	120.28
7	M	192	ILE	N-CA-C	-5.60	105.06	110.72
7	M	518	ASN	CB-CG-ND2	-5.60	108.00	116.40
7	M	668	ARG	CA-C-N	5.60	132.24	121.54
7	M	668	ARG	C-N-CA	5.60	132.24	121.54
8	N	259	SER	N-CA-CB	5.60	118.36	110.12
9	Q	618	GLU	CA-C-N	5.60	127.72	120.44
9	Q	618	GLU	C-N-CA	5.60	127.72	120.44
2	0	405	THR	N-CA-CB	5.60	119.94	110.69
2	0	1052	SER	CA-C-N	5.60	127.72	120.44
2	0	1052	SER	C-N-CA	5.60	127.72	120.44
3	1	103	PHE	CA-C-N	5.60	127.79	120.28
3	1	103	PHE	C-N-CA	5.60	127.79	120.28
8	P	35	LYS	N-CA-C	5.60	117.47	111.36
8	N	985	GLU	N-CA-C	-5.60	105.04	112.94
7	O	1240	HIS	CA-C-N	5.60	128.24	120.29
7	O	1240	HIS	C-N-CA	5.60	128.24	120.29
8	P	905	SER	N-CA-C	5.60	117.39	111.28
2	Y	1392	PRO	O-C-N	5.60	128.50	122.17
7	M	494	GLU	CA-C-O	5.60	126.41	119.97
8	N	905	SER	N-CA-C	5.60	117.38	111.28
8	N	1288	PHE	N-CA-C	5.60	118.31	111.82
3	1	356	THR	N-CA-C	-5.60	99.89	109.24
8	P	1047	LEU	N-CA-CB	5.60	118.35	110.12
3	Z	1244	SER	N-CA-CB	5.60	118.35	110.12
6	C	293	HIS	CB-CA-C	5.60	118.72	111.50
4	D	700	ILE	CA-C-O	5.60	124.25	119.38
7	M	528	LEU	CA-C-N	5.60	128.10	120.54
7	M	528	LEU	C-N-CA	5.60	128.10	120.54
7	M	582	PHE	CB-CA-C	-5.60	101.33	110.85
8	N	1228	ASP	CA-CB-CG	-5.60	107.00	112.60
9	R	342	ARG	NH1-CZ-NH2	-5.60	112.02	119.30
9	R	540	ASN	OD1-CG-ND2	5.60	128.20	122.60
9	R	645	GLN	CA-C-N	5.60	128.82	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	R	645	GLN	C-N-CA	5.60	128.82	120.31
7	O	1441	ILE	N-CA-C	5.60	115.79	110.42
8	N	1306	ASN	N-CA-C	-5.60	103.98	111.87
3	1	245	ASN	CA-CB-CG	-5.60	107.00	112.60
6	L	393	ASP	N-CA-CB	5.60	118.34	110.12
3	Z	861	GLN	CB-CG-CD	-5.59	103.09	112.60
3	Z	1234	ILE	CA-C-N	5.59	127.78	120.28
3	Z	1234	ILE	C-N-CA	5.59	127.78	120.28
9	Q	629	ARG	CB-CA-C	-5.59	101.50	110.79
9	R	413	LYS	N-CA-C	5.59	117.06	111.07
2	0	1318	HIS	ND1-CE1-NE2	5.59	114.00	108.40
8	P	1450	LEU	N-CA-C	5.59	117.38	111.28
3	Z	1188	ARG	O-C-N	-5.59	116.19	122.12
9	R	273	VAL	N-CA-CB	5.59	120.89	110.77
7	O	566	THR	N-CA-CB	5.59	118.12	110.01
2	Y	525	ILE	CA-CB-CG2	-5.59	101.00	110.50
3	Z	1030	ILE	O-C-N	5.59	129.56	122.57
7	M	431	PHE	N-CA-CB	5.59	118.08	109.91
7	M	898	TYR	N-CA-C	-5.59	99.49	108.55
7	M	1044	SER	CA-C-N	5.59	130.88	120.87
7	M	1044	SER	C-N-CA	5.59	130.88	120.87
7	M	1108	ARG	N-CA-C	5.59	117.05	111.07
7	M	1359	PHE	CA-CB-CG	-5.59	108.21	113.80
8	N	896	PHE	CA-C-N	5.59	128.09	120.54
8	N	896	PHE	C-N-CA	5.59	128.09	120.54
2	0	412	ILE	CA-CB-CG1	5.59	119.91	110.40
2	0	1141	LEU	O-C-N	5.59	128.05	122.12
3	1	1282	VAL	N-CA-C	-5.59	106.88	113.42
6	L	271	PRO	CA-C-N	5.59	127.77	120.28
6	L	271	PRO	C-N-CA	5.59	127.77	120.28
7	M	566	THR	N-CA-CB	5.59	118.11	110.01
3	1	1188	ARG	CA-C-N	5.59	127.71	120.44
3	1	1188	ARG	C-N-CA	5.59	127.71	120.44
9	S	458	SER	CA-C-N	5.59	128.33	120.28
9	S	458	SER	C-N-CA	5.59	128.33	120.28
6	C	378	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
10	W	268	LEU	CA-C-O	-5.59	114.63	120.55
3	Z	1212	PRO	N-CD-CG	5.59	111.58	103.20
4	D	710	PHE	CA-C-N	5.59	127.77	120.28
4	D	710	PHE	C-N-CA	5.59	127.77	120.28
7	M	1638	ILE	O-C-N	-5.59	116.45	121.87
8	N	588	HIS	CG-CD2-NE2	5.59	112.79	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	0	218	ARG	CA-C-N	5.59	126.82	119.84
2	0	218	ARG	C-N-CA	5.59	126.82	119.84
2	0	1036	GLU	O-C-N	-5.59	115.40	122.27
8	P	259	SER	N-CA-CB	5.59	118.33	110.12
9	S	587	THR	CA-C-N	5.59	128.73	120.74
9	S	587	THR	C-N-CA	5.59	128.73	120.74
7	M	231	ILE	CA-C-N	5.58	130.05	120.72
7	M	231	ILE	C-N-CA	5.58	130.05	120.72
4	G	684	VAL	N-CA-C	5.58	120.26	112.50
3	Z	410	VAL	N-CA-CB	5.58	120.62	111.58
7	M	106	TYR	CA-C-O	-5.58	114.96	120.82
7	M	1006	LEU	N-CA-C	5.58	117.37	111.28
8	N	109	ARG	NE-CZ-NH1	5.58	127.08	121.50
8	N	914	ASP	N-CA-C	-5.58	106.05	112.92
9	Q	522	THR	N-CA-C	-5.58	106.05	112.92
3	1	1249	PRO	CA-N-CD	-5.58	104.18	112.00
7	O	1081	GLU	CB-CA-C	-5.58	102.11	110.88
8	P	20	ASN	CA-CB-CG	5.58	118.18	112.60
8	P	438	SER	CA-C-N	5.58	127.70	120.44
8	P	438	SER	C-N-CA	5.58	127.70	120.44
8	P	579	LYS	N-CA-C	-5.58	98.91	110.80
8	P	1253	GLU	CA-C-N	5.58	127.76	120.28
8	P	1253	GLU	C-N-CA	5.58	127.76	120.28
3	Z	97	PHE	CA-CB-CG	5.58	119.38	113.80
5	B	302	ASN	CA-C-N	5.58	129.81	121.72
5	B	302	ASN	C-N-CA	5.58	129.81	121.72
9	R	249	ARG	CA-C-N	5.58	128.22	120.29
9	R	249	ARG	C-N-CA	5.58	128.22	120.29
2	0	193	TRP	CD2-CE2-CZ2	-5.58	116.82	122.40
2	0	1421	VAL	CA-C-N	5.58	129.02	120.82
2	0	1421	VAL	C-N-CA	5.58	129.02	120.82
5	H	461	ALA	CA-C-N	5.58	127.76	120.28
5	H	461	ALA	C-N-CA	5.58	127.76	120.28
9	T	719	ASN	OD1-CG-ND2	5.58	128.18	122.60
2	Y	129	SER	N-CA-C	-5.58	98.91	110.80
6	F	308	ILE	CA-C-N	5.58	124.93	118.85
6	F	308	ILE	C-N-CA	5.58	124.93	118.85
4	G	686	ALA	N-CA-CB	5.58	118.42	110.16
7	O	518	ASN	CB-CG-ND2	-5.58	108.03	116.40
9	T	645	GLN	CA-C-N	5.58	128.79	120.31
9	T	645	GLN	C-N-CA	5.58	128.79	120.31
3	Z	890	GLU	O-C-N	-5.58	114.44	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	1602	VAL	CA-C-N	5.58	125.42	119.28
7	M	1602	VAL	C-N-CA	5.58	125.42	119.28
9	R	91	GLN	N-CA-C	5.58	117.36	111.28
7	O	818	TYR	N-CA-C	5.58	118.08	111.33
2	Y	1197	SER	CA-C-O	-5.58	114.64	120.55
3	Z	1240	ARG	CA-C-N	5.58	127.69	120.44
3	Z	1240	ARG	C-N-CA	5.58	127.69	120.44
8	N	1120	LYS	CB-CG-CD	5.58	124.13	111.30
6	I	281	ASP	CA-C-N	5.58	128.01	120.65
6	I	281	ASP	C-N-CA	5.58	128.01	120.65
3	Z	1211	ASP	O-C-N	-5.58	114.91	121.32
6	C	281	ASP	CA-C-N	5.58	128.01	120.65
6	C	281	ASP	C-N-CA	5.58	128.01	120.65
6	F	393	ASP	N-CA-CB	5.58	118.32	110.12
7	M	34	ASN	OD1-CG-ND2	5.58	128.18	122.60
8	N	113	VAL	N-CA-C	5.58	115.77	110.42
8	N	950	ARG	NE-CZ-NH2	-5.58	114.18	119.20
9	Q	771	ILE	N-CA-CB	5.58	114.26	110.52
7	O	557	ASN	CA-C-O	-5.58	114.51	120.42
7	O	1309	LEU	N-CA-C	5.58	117.36	111.28
9	S	522	THR	N-CA-C	-5.58	106.06	112.92
9	S	773	ASN	CB-CG-ND2	5.58	124.76	116.40
2	Y	460	LEU	N-CA-C	-5.57	97.91	107.61
2	Y	680	SER	CA-C-N	5.57	128.20	120.29
2	Y	680	SER	C-N-CA	5.57	128.20	120.29
5	E	293	LEU	N-CA-C	-5.57	105.28	111.36
9	Q	481	THR	CA-C-N	5.57	127.75	120.28
9	Q	481	THR	C-N-CA	5.57	127.75	120.28
9	R	350	LEU	N-CA-C	5.57	117.36	111.28
11	V	382	ILE	N-CA-C	-5.57	99.85	107.99
2	0	489	ALA	N-CA-C	5.57	117.36	111.28
2	0	525	ILE	CA-CB-CG2	-5.57	101.03	110.50
2	0	1360	SER	N-CA-C	-5.57	105.11	111.07
5	H	373	ARG	N-CA-C	5.57	117.44	111.36
8	P	562	TRP	CA-C-N	5.57	127.75	120.28
8	P	562	TRP	C-N-CA	5.57	127.75	120.28
8	P	1072	TYR	O-C-N	5.57	128.03	122.12
9	T	91	GLN	N-CA-C	5.57	117.36	111.28
9	T	273	VAL	N-CA-CB	5.57	120.86	110.77
4	A	684	VAL	N-CA-C	5.57	120.25	112.50
7	O	1201	LEU	N-CA-C	-5.57	106.33	113.02
8	P	914	ASP	N-CA-C	-5.57	106.07	112.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z	934	LEU	CA-C-O	-5.57	114.97	120.82
3	Z	1366	ILE	CA-C-N	5.57	127.75	120.28
3	Z	1366	ILE	C-N-CA	5.57	127.75	120.28
4	D	767	VAL	O-C-N	-5.57	114.19	121.82
5	E	333	GLU	CA-C-N	5.57	127.75	120.28
5	E	333	GLU	C-N-CA	5.57	127.75	120.28
7	M	1228	LEU	CA-C-N	5.57	129.26	121.24
7	M	1228	LEU	C-N-CA	5.57	129.26	121.24
8	N	1419	LYS	CG-CD-CE	5.57	124.11	111.30
9	R	214	ASN	N-CA-C	5.57	117.35	111.28
3	1	807	ASP	O-C-N	5.57	128.03	122.12
5	K	293	LEU	N-CA-C	-5.57	105.29	111.36
7	O	45	ASN	N-CA-CB	5.57	118.31	110.12
7	O	431	PHE	N-CA-CB	5.57	118.04	109.91
7	O	707	LEU	CA-C-N	5.57	126.16	119.98
7	O	707	LEU	C-N-CA	5.57	126.16	119.98
8	P	1510	PHE	CA-CB-CG	-5.57	108.23	113.80
2	Y	412	ILE	CA-CB-CG1	5.57	119.87	110.40
7	M	682	ASP	N-CA-C	-5.57	105.84	113.30
8	N	155	ILE	N-CA-CB	5.57	118.93	110.58
2	0	1354	THR	CA-CB-OG1	5.57	117.95	109.60
9	S	618	GLU	CA-C-N	5.57	127.68	120.44
9	S	618	GLU	C-N-CA	5.57	127.68	120.44
9	T	350	LEU	N-CA-C	5.57	117.35	111.28
2	Y	608	ILE	N-CA-C	-5.57	99.53	107.77
3	Z	1249	PRO	CA-N-CD	-5.57	104.20	112.00
3	Z	1327	ARG	CA-C-N	5.57	128.09	120.46
3	Z	1327	ARG	C-N-CA	5.57	128.09	120.46
7	M	1095	LEU	O-C-N	-5.57	116.08	122.09
8	N	542	ASN	CB-CA-C	-5.57	100.88	109.29
9	Q	747	PHE	N-CA-C	-5.57	107.73	114.75
2	0	129	SER	N-CA-C	-5.57	98.94	110.80
2	0	297	HIS	N-CA-C	-5.57	100.17	109.24
5	K	333	GLU	CA-C-N	5.57	127.74	120.28
5	K	333	GLU	C-N-CA	5.57	127.74	120.28
8	P	51	LEU	CA-C-N	5.57	129.26	122.63
8	P	51	LEU	C-N-CA	5.57	129.26	122.63
3	Z	1329	ILE	CA-C-N	5.57	127.67	120.44
3	Z	1329	ILE	C-N-CA	5.57	127.67	120.44
8	N	900	ILE	CA-C-O	-5.57	114.87	121.05
9	Q	759	ASP	CA-C-N	5.57	127.74	120.28
9	Q	759	ASP	C-N-CA	5.57	127.74	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	0	680	SER	CA-C-N	5.57	128.19	120.29
2	0	680	SER	C-N-CA	5.57	128.19	120.29
5	H	302	ASN	CA-C-N	5.57	129.79	121.72
5	H	302	ASN	C-N-CA	5.57	129.79	121.72
3	Z	735	SER	O-C-N	5.56	128.41	121.84
7	M	492	ARG	CB-CG-CD	5.56	124.10	111.30
8	N	1072	TYR	O-C-N	5.56	128.02	122.12
2	0	460	LEU	N-CA-C	-5.56	97.93	107.61
3	1	861	GLN	CB-CG-CD	-5.56	103.14	112.60
7	O	1359	PHE	CA-CB-CG	-5.56	108.24	113.80
2	Y	218	ARG	CA-C-N	5.56	126.79	119.84
2	Y	218	ARG	C-N-CA	5.56	126.79	119.84
2	Y	571	THR	CA-CB-OG1	5.56	117.94	109.60
7	M	298	ASP	CA-C-N	5.56	128.19	120.29
7	M	298	ASP	C-N-CA	5.56	128.19	120.29
7	M	692	TYR	O-C-N	5.56	128.01	122.12
3	1	856	ASN	CB-CA-C	5.56	120.83	109.76
3	1	994	ARG	NE-CZ-NH1	5.56	127.06	121.50
7	O	298	ASP	CA-C-N	5.56	128.19	120.29
7	O	298	ASP	C-N-CA	5.56	128.19	120.29
9	S	771	ILE	N-CA-CB	5.56	114.25	110.52
2	Y	445	ARG	CD-NE-CZ	5.56	132.19	124.40
7	M	1637	VAL	CA-C-N	5.56	128.08	120.46
7	M	1637	VAL	C-N-CA	5.56	128.08	120.46
8	N	369	LEU	O-C-N	-5.56	115.22	122.39
9	S	555	GLU	O-C-N	-5.56	116.22	122.12
2	Y	193	TRP	CD2-CE2-CZ2	-5.56	116.84	122.40
2	Y	1421	VAL	CA-C-N	5.56	128.99	120.82
2	Y	1421	VAL	C-N-CA	5.56	128.99	120.82
3	Z	190	GLU	CA-C-O	-5.56	114.35	120.30
3	Z	881	ALA	N-CA-C	5.56	118.06	111.33
7	M	848	VAL	CA-C-O	-5.56	114.96	120.85
8	N	712	LEU	CA-C-N	5.56	127.73	120.28
8	N	712	LEU	C-N-CA	5.56	127.73	120.28
4	J	700	ILE	CA-C-O	5.56	124.22	119.38
9	S	810	ALA	CB-CA-C	-5.56	102.15	110.88
2	Y	868	VAL	O-C-N	-5.56	116.61	122.67
2	Y	1189	LYS	N-CA-CB	5.56	119.11	110.44
8	N	196	ASN	N-CA-C	5.56	117.34	111.28
8	N	1315	VAL	CA-C-N	5.56	127.99	120.38
8	N	1315	VAL	C-N-CA	5.56	127.99	120.38
9	Q	810	ALA	CB-CA-C	-5.56	102.15	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	0	672	ASN	O-C-N	5.56	129.45	122.23
4	J	792	GLN	N-CA-C	5.56	117.34	111.28
8	P	183	SER	N-CA-C	5.56	117.42	111.36
9	S	277	TYR	CA-CB-CG	-5.56	103.90	113.90
9	T	445	GLU	CA-C-N	5.56	129.80	122.30
9	T	445	GLU	C-N-CA	5.56	129.80	122.30
8	N	1257	LEU	CA-C-O	-5.56	114.66	120.55
9	Q	225	SER	N-CA-C	5.56	117.42	111.36
9	R	445	GLU	CA-C-N	5.56	129.80	122.30
9	R	445	GLU	C-N-CA	5.56	129.80	122.30
7	O	1637	VAL	CA-C-N	5.56	128.07	120.46
7	O	1637	VAL	C-N-CA	5.56	128.07	120.46
4	A	686	ALA	N-CA-CB	5.55	118.38	110.16
6	C	444	ILE	N-CA-CB	5.55	117.68	110.57
2	0	1384	ILE	CA-CB-CG2	-5.55	101.06	110.50
3	1	1327	ARG	CA-C-N	5.55	128.07	120.46
3	1	1327	ARG	C-N-CA	5.55	128.07	120.46
5	K	528	GLU	N-CA-CB	5.55	118.06	110.01
8	P	113	VAL	N-CA-C	5.55	115.75	110.42
9	T	342	ARG	NH1-CZ-NH2	-5.55	112.08	119.30
2	Y	1471	ILE	O-C-N	5.55	127.55	121.83
7	M	1562	ASP	CA-C-O	-5.55	115.76	122.03
10	U	268	LEU	CA-C-O	-5.55	114.66	120.55
7	O	1057	GLU	CB-CG-CD	-5.55	103.16	112.60
9	T	403	ASP	O-C-N	-5.55	115.65	122.20
2	Y	405	THR	N-CA-CB	5.55	119.85	110.69
2	Y	486	GLN	OE1-CD-NE2	-5.55	117.05	122.60
3	Z	1113	ASP	CB-CA-C	-5.55	101.58	110.79
4	D	792	GLN	N-CA-C	5.55	117.33	111.28
7	M	1182	ASN	N-CA-C	5.55	118.26	111.82
8	N	579	LYS	N-CA-C	-5.55	98.97	110.80
2	0	1314	PRO	N-CA-CB	5.55	108.84	103.51
3	1	97	PHE	CA-CB-CG	5.55	119.35	113.80
5	K	526	VAL	N-CA-CB	5.55	121.44	110.95
8	P	1120	LYS	CB-CG-CD	5.55	124.07	111.30
2	Y	864	SER	CA-C-O	5.55	125.73	119.18
7	M	707	LEU	CA-C-N	5.55	126.14	119.98
7	M	707	LEU	C-N-CA	5.55	126.14	119.98
9	Q	42	ILE	CB-CA-C	-5.55	102.91	110.90
9	Q	773	ASN	CB-CG-ND2	5.55	124.72	116.40
3	Z	619	GLU	N-CA-C	-5.55	105.31	111.36
9	R	336	LEU	CA-C-N	5.55	128.06	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	R	336	LEU	C-N-CA	5.55	128.06	120.46
7	O	793	TYR	N-CA-CB	5.55	118.88	110.28
3	Z	856	ASN	CB-CA-C	5.55	120.80	109.76
7	M	1609	SER	CA-C-O	-5.55	114.67	120.55
2	0	1001	ILE	O-C-N	-5.55	116.47	121.91
2	0	1432	GLU	N-CA-C	5.55	117.33	111.28
4	J	767	VAL	CA-C-N	5.55	127.65	120.44
4	J	767	VAL	C-N-CA	5.55	127.65	120.44
4	J	791	ILE	CA-C-N	5.55	127.71	120.28
4	J	791	ILE	C-N-CA	5.55	127.71	120.28
7	O	577	HIS	CE1-NE2-CD2	-5.55	103.45	109.00
7	O	579	ARG	CA-C-N	5.55	127.71	120.28
7	O	579	ARG	C-N-CA	5.55	127.71	120.28
11	X	378	ARG	N-CA-CB	5.55	122.81	113.10
8	N	562	TRP	CA-C-N	5.54	127.71	120.28
8	N	562	TRP	C-N-CA	5.54	127.71	120.28
2	0	143	GLY	CA-C-O	5.54	130.22	120.57
3	1	1123	PHE	N-CA-C	-5.54	100.77	109.25
7	O	192	ILE	N-CA-C	-5.54	105.12	110.72
9	T	336	LEU	CA-C-N	5.54	128.06	120.46
9	T	336	LEU	C-N-CA	5.54	128.06	120.46
2	Y	1036	GLU	O-C-N	-5.54	115.45	122.27
2	Y	1354	THR	CA-CB-OG1	5.54	117.92	109.60
3	Z	716	ILE	CA-C-N	5.54	128.16	120.29
3	Z	716	ILE	C-N-CA	5.54	128.16	120.29
5	B	365	GLN	OE1-CD-NE2	5.54	128.14	122.60
8	N	826	SER	N-CA-C	5.54	122.06	109.81
2	0	110	HIS	ND1-CE1-NE2	5.54	113.94	108.40
2	0	582	ASP	CA-C-N	5.54	127.71	120.28
2	0	582	ASP	C-N-CA	5.54	127.71	120.28
8	P	1315	VAL	CA-C-N	5.54	127.97	120.38
8	P	1315	VAL	C-N-CA	5.54	127.97	120.38
10	W	346	SER	CB-CA-C	-5.54	102.90	110.22
2	Y	431	ASN	N-CA-CB	5.54	119.85	110.49
2	Y	672	ASN	O-C-N	5.54	129.43	122.23
3	Z	642	SER	N-CA-CB	5.54	118.27	110.12
3	Z	1123	PHE	N-CA-C	-5.54	100.77	109.25
3	Z	1270	ILE	CA-C-O	-5.54	114.98	120.85
6	F	458	ALA	CA-C-N	5.54	128.05	120.46
6	F	458	ALA	C-N-CA	5.54	128.05	120.46
3	1	1076	ASP	CA-C-O	-5.54	113.85	120.89
7	O	1473	ASN	O-C-N	-5.54	115.35	122.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	768	VAL	CA-C-N	5.54	128.26	120.28
9	S	768	VAL	C-N-CA	5.54	128.26	120.28
9	R	533	ARG	N-CA-C	-5.54	99.00	110.80
2	0	1086	ASN	OD1-CG-ND2	5.54	128.14	122.60
7	O	713	PHE	CA-CB-CG	-5.54	108.26	113.80
2	Y	297	HIS	N-CA-C	-5.54	100.21	109.24
3	Z	833	GLY	CA-C-N	5.54	128.87	121.01
3	Z	833	GLY	C-N-CA	5.54	128.87	121.01
7	M	1016	THR	CA-C-N	5.54	128.96	120.82
7	M	1016	THR	C-N-CA	5.54	128.96	120.82
8	N	928	SER	N-CA-CB	5.54	118.36	110.16
2	0	431	ASN	N-CA-CB	5.54	119.85	110.49
3	1	732	LYS	CA-C-N	5.54	129.42	121.50
3	1	732	LYS	C-N-CA	5.54	129.42	121.50
7	O	492	ARG	CB-CG-CD	5.54	124.04	111.30
8	P	928	SER	N-CA-CB	5.54	118.36	110.16
4	D	767	VAL	CA-C-N	5.54	127.64	120.44
4	D	767	VAL	C-N-CA	5.54	127.64	120.44
5	E	371	GLN	CA-CB-CG	5.54	125.17	114.10
6	F	453	ILE	N-CA-CB	5.54	117.03	110.55
8	N	322	HIS	CA-C-O	5.54	126.42	120.55
8	N	1510	PHE	CA-CB-CG	-5.54	108.26	113.80
3	Z	1042	ARG	CA-C-N	5.54	128.28	120.42
3	Z	1042	ARG	C-N-CA	5.54	128.28	120.42
4	D	752	ASP	CA-CB-CG	5.54	118.14	112.60
7	M	793	TYR	N-CA-CB	5.54	118.86	110.28
8	N	113	VAL	CA-C-N	5.54	127.64	120.44
8	N	113	VAL	C-N-CA	5.54	127.64	120.44
9	Q	587	THR	CA-C-N	5.54	128.66	120.74
9	Q	587	THR	C-N-CA	5.54	128.66	120.74
9	R	403	ASP	O-C-N	-5.54	115.67	122.20
2	0	101	LEU	N-CA-C	-5.54	105.33	111.36
2	0	693	GLU	CB-CG-CD	-5.54	103.19	112.60
2	0	864	SER	CA-C-O	5.54	125.71	119.18
3	1	410	VAL	N-CA-CB	5.54	120.55	111.58
3	1	934	LEU	CA-C-O	-5.54	115.01	120.82
8	P	584	ASP	CA-C-N	5.54	127.96	120.38
8	P	584	ASP	C-N-CA	5.54	127.96	120.38
8	P	789	GLN	N-CA-C	-5.54	105.14	113.89
9	T	647	ALA	N-CA-C	-5.54	106.48	113.18
2	Y	1314	PRO	N-CA-CB	5.53	108.82	103.51
3	Z	103	PHE	CA-C-N	5.53	127.70	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z	103	PHE	C-N-CA	5.53	127.70	120.28
7	M	1057	GLU	CB-CG-CD	-5.53	103.19	112.60
8	N	1253	GLU	CA-C-N	5.53	127.69	120.28
8	N	1253	GLU	C-N-CA	5.53	127.69	120.28
11	V	378	ARG	N-CA-CB	5.53	122.78	113.10
2	0	1471	ILE	O-C-N	5.53	127.53	121.83
7	O	1245	LEU	CA-C-N	5.53	128.15	120.29
7	O	1245	LEU	C-N-CA	5.53	128.15	120.29
8	P	322	HIS	CA-C-O	5.53	126.42	120.55
8	P	844	TYR	CB-CG-CD1	-5.53	112.50	120.80
2	Y	1384	ILE	CA-CB-CG2	-5.53	101.10	110.50
7	M	1681	ASN	OD1-CG-ND2	5.53	128.13	122.60
9	Q	277	TYR	CA-CB-CG	-5.53	103.94	113.90
5	H	378	HIS	CG-CD2-NE2	5.53	112.73	107.20
7	O	1487	LEU	CA-C-N	5.53	128.04	120.46
7	O	1487	LEU	C-N-CA	5.53	128.04	120.46
9	T	533	ARG	N-CA-C	-5.53	99.02	110.80
5	B	382	LYS	CB-CG-CD	5.53	124.02	111.30
5	E	528	GLU	N-CA-CB	5.53	118.03	110.01
9	R	647	ALA	N-CA-C	-5.53	106.49	113.18
3	1	97	PHE	CA-C-N	5.53	128.04	120.46
3	1	97	PHE	C-N-CA	5.53	128.04	120.46
9	T	509	GLY	CA-C-O	5.53	126.45	120.75
2	Y	1432	GLU	N-CA-C	5.53	117.31	111.28
8	N	844	TYR	CB-CG-CD1	-5.53	112.51	120.80
9	Q	767	ILE	CA-C-N	5.53	127.73	120.60
9	Q	767	ILE	C-N-CA	5.53	127.73	120.60
9	R	222	PHE	N-CA-C	5.53	116.99	111.07
6	I	444	ILE	N-CA-CB	5.53	117.65	110.57
7	O	550	ASN	N-CA-C	-5.53	101.16	109.95
3	Z	506	ILE	CA-C-N	5.53	130.03	122.84
3	Z	506	ILE	C-N-CA	5.53	130.03	122.84
7	M	818	TYR	N-CA-C	5.53	118.02	111.33
9	Q	458	SER	CA-C-N	5.53	128.24	120.28
9	Q	458	SER	C-N-CA	5.53	128.24	120.28
9	R	310	ASP	CA-C-N	5.53	128.14	120.29
9	R	310	ASP	C-N-CA	5.53	128.14	120.29
2	0	919	VAL	CA-C-O	-5.53	113.50	120.69
9	S	237	GLU	N-CA-CB	5.53	118.25	110.12
9	T	310	ASP	CA-C-N	5.53	128.14	120.29
9	T	310	ASP	C-N-CA	5.53	128.14	120.29
2	Y	585	ILE	N-CA-CB	5.53	118.05	110.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y	693	GLU	CB-CG-CD	-5.53	103.21	112.60
5	E	526	VAL	N-CA-CB	5.53	121.39	110.95
7	M	577	HIS	CE1-NE2-CD2	-5.53	103.47	109.00
7	M	1498	LEU	N-CA-CB	5.53	118.24	110.12
8	N	41	ARG	CA-C-N	5.53	127.69	120.28
8	N	41	ARG	C-N-CA	5.53	127.69	120.28
9	Q	642	LEU	CA-C-N	5.53	127.68	120.28
9	Q	642	LEU	C-N-CA	5.53	127.68	120.28
3	1	594	TYR	CA-C-O	5.53	126.07	119.60
11	X	382	ILE	N-CA-C	-5.53	99.92	107.99
7	M	550	ASN	N-CA-C	-5.52	101.17	109.95
9	R	621	HIS	CB-CG-CD2	-5.52	124.02	131.20
7	O	1681	ASN	OD1-CG-ND2	5.52	128.12	122.60
9	S	392	THR	CA-CB-OG1	-5.52	101.31	109.60
3	Z	732	LYS	CA-C-N	5.52	129.40	121.50
3	Z	732	LYS	C-N-CA	5.52	129.40	121.50
3	Z	994	ARG	NE-CZ-NH1	5.52	127.02	121.50
6	C	386	ASP	CA-C-N	5.52	128.70	120.31
6	C	386	ASP	C-N-CA	5.52	128.70	120.31
4	D	744	ALA	CB-CA-C	-5.52	102.24	111.13
9	Q	767	ILE	N-CA-C	-5.52	105.73	111.58
3	1	642	SER	N-CA-CB	5.52	118.24	110.12
6	L	453	ILE	N-CA-CB	5.52	117.01	110.55
8	P	1525	PHE	CA-CB-CG	-5.52	108.28	113.80
2	Y	394	GLU	CA-C-O	-5.52	113.75	120.54
2	Y	489	ALA	N-CA-C	5.52	117.30	111.28
2	Y	582	ASP	CA-C-N	5.52	127.68	120.28
2	Y	582	ASP	C-N-CA	5.52	127.68	120.28
3	Z	97	PHE	CA-C-N	5.52	128.02	120.46
3	Z	97	PHE	C-N-CA	5.52	128.02	120.46
7	M	29	LEU	N-CA-C	5.52	121.12	113.45
8	P	1540	LYS	N-CA-C	-5.52	105.76	112.88
3	Z	807	ASP	O-C-N	5.52	127.97	122.12
6	L	458	ALA	CA-C-N	5.52	128.02	120.46
6	L	458	ALA	C-N-CA	5.52	128.02	120.46
9	T	603	VAL	CA-C-N	5.52	128.26	120.42
9	T	603	VAL	C-N-CA	5.52	128.26	120.42
10	W	267	ILE	N-CA-C	5.52	116.29	110.72
7	M	981	ALA	CB-CA-C	-5.52	102.22	110.88
3	1	881	ALA	N-CA-C	5.52	118.00	111.33
7	O	528	LEU	CA-C-N	5.52	127.99	120.54
7	O	528	LEU	C-N-CA	5.52	127.99	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y	473	THR	CA-C-N	5.52	126.73	119.84
2	Y	473	THR	C-N-CA	5.52	126.73	119.84
3	1	716	ILE	CA-C-N	5.52	128.12	120.29
3	1	716	ILE	C-N-CA	5.52	128.12	120.29
4	A	756	ASN	CA-CB-CG	5.51	118.11	112.60
8	N	789	GLN	N-CA-C	-5.51	105.18	113.89
3	1	1234	ILE	CA-C-N	5.51	127.67	120.28
3	1	1234	ILE	C-N-CA	5.51	127.67	120.28
5	H	382	LYS	CB-CG-CD	5.51	123.98	111.30
4	J	744	ALA	CB-CA-C	-5.51	102.25	111.13
9	S	255	GLU	CA-C-N	5.51	127.67	120.28
9	S	255	GLU	C-N-CA	5.51	127.67	120.28
9	T	621	HIS	CB-CG-CD2	-5.51	124.03	131.20
2	Y	143	GLY	CA-C-O	5.51	130.16	120.57
3	Z	973	LYS	N-CA-C	-5.51	105.43	111.82
3	Z	1121	SER	O-C-N	5.51	129.37	122.65
6	C	285	GLN	CA-C-N	5.51	127.98	120.54
6	C	285	GLN	C-N-CA	5.51	127.98	120.54
8	N	51	LEU	CA-C-N	5.51	129.19	122.63
8	N	51	LEU	C-N-CA	5.51	129.19	122.63
9	Q	392	THR	CA-CB-OG1	-5.51	101.33	109.60
2	0	1158	HIS	CA-C-O	-5.51	114.71	120.55
6	L	355	GLN	N-CA-C	-5.51	106.46	114.12
7	O	1298	LEU	N-CA-CB	5.51	118.32	110.16
7	O	1609	SER	CA-C-O	-5.51	114.71	120.55
8	P	542	ASN	CB-CA-C	-5.51	100.97	109.29
8	P	615	LEU	CA-C-N	5.51	127.98	120.54
8	P	615	LEU	C-N-CA	5.51	127.98	120.54
8	P	950	ARG	NE-CZ-NH2	-5.51	114.24	119.20
9	T	456	ARG	N-CA-CB	5.51	119.25	110.16
2	Y	1318	HIS	ND1-CE1-NE2	5.51	113.91	108.40
2	Y	1360	SER	N-CA-C	-5.51	105.17	111.07
9	R	143	ASN	N-CA-CB	5.51	118.00	110.01
6	I	386	ASP	CA-C-N	5.51	128.69	120.31
6	I	386	ASP	C-N-CA	5.51	128.69	120.31
8	P	900	ILE	CA-C-O	-5.51	114.94	121.05
5	B	378	HIS	CG-CD2-NE2	5.51	112.71	107.20
6	C	279	GLN	N-CA-CB	5.51	118.31	110.16
8	P	741	LYS	CA-C-N	5.51	127.66	120.28
8	P	741	LYS	C-N-CA	5.51	127.66	120.28
4	A	677	SER	N-CA-CB	5.51	118.31	110.16
9	Q	495	THR	N-CA-CB	5.51	118.22	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	R	509	GLY	CA-C-O	5.51	126.42	120.75
3	1	890	GLU	O-C-N	-5.51	114.54	122.36
5	H	318	GLU	N-CA-C	5.51	117.87	108.67
9	T	143	ASN	N-CA-CB	5.51	117.99	110.01
2	Y	1086	ASN	OD1-CG-ND2	5.50	128.10	122.60
8	N	1450	LEU	N-CA-C	5.50	117.28	111.28
8	N	1460	LEU	N-CA-CB	5.50	118.21	110.12
11	V	362	SER	O-C-N	5.50	126.53	121.80
2	0	1379	GLN	OE1-CD-NE2	5.50	128.10	122.60
7	O	692	TYR	O-C-N	5.50	127.95	122.12
9	T	69	ALA	CA-C-O	-5.50	115.04	120.82
2	Y	1158	HIS	CA-C-O	-5.50	114.72	120.55
8	N	741	LYS	CA-C-N	5.50	127.65	120.28
8	N	741	LYS	C-N-CA	5.50	127.65	120.28
9	R	70	HIS	CA-C-N	5.50	127.59	120.44
9	R	70	HIS	C-N-CA	5.50	127.59	120.44
9	S	827	GLU	N-CA-CB	5.50	118.81	110.28
9	T	222	PHE	N-CA-C	5.50	116.96	111.07
2	Y	919	VAL	CA-C-O	-5.50	113.54	120.69
2	Y	1087	GLY	CA-C-N	5.50	132.05	121.54
2	Y	1087	GLY	C-N-CA	5.50	132.05	121.54
4	D	791	ILE	CA-C-N	5.50	127.65	120.28
4	D	791	ILE	C-N-CA	5.50	127.65	120.28
7	M	692	TYR	CA-C-O	-5.50	114.69	120.63
8	N	800	ASN	N-CA-C	5.50	118.04	111.71
8	N	1372	THR	N-CA-C	-5.50	105.93	113.30
6	I	460	LEU	N-CA-CB	5.50	118.21	110.12
7	O	92	ILE	O-C-N	5.50	127.21	121.87
7	O	729	MET	CG-SD-CE	-5.50	88.80	100.90
8	P	246	ASN	N-CA-CB	5.50	119.79	110.49
8	P	374	VAL	N-CA-C	5.50	116.23	110.62
9	Q	615	ASP	CB-CA-C	-5.50	101.83	110.79
3	1	1042	ARG	CA-C-N	5.50	128.23	120.42
3	1	1042	ARG	C-N-CA	5.50	128.23	120.42
6	L	307	SER	CA-CB-OG	5.50	122.10	111.10
8	P	1357	CYS	CA-C-N	5.50	128.67	120.31
8	P	1357	CYS	C-N-CA	5.50	128.67	120.31
5	B	337	GLN	N-CA-CB	5.50	117.98	110.01
6	C	460	LEU	N-CA-CB	5.50	118.20	110.12
7	M	1201	LEU	N-CA-C	-5.50	106.42	113.02
7	M	1487	LEU	CA-C-N	5.50	127.99	120.46
7	M	1487	LEU	C-N-CA	5.50	127.99	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	R	497	THR	CA-CB-OG1	5.50	117.85	109.60
6	I	285	GLN	CA-C-N	5.50	127.96	120.54
6	I	285	GLN	C-N-CA	5.50	127.96	120.54
8	P	113	VAL	CA-C-N	5.50	127.59	120.44
8	P	113	VAL	C-N-CA	5.50	127.59	120.44
8	P	826	SER	N-CA-C	5.50	121.96	109.81
8	P	861	ILE	CA-C-O	5.50	126.67	120.95
9	S	670	LEU	N-CA-C	-5.50	106.24	113.17
7	M	628	LYS	CA-C-N	5.50	128.09	120.29
7	M	628	LYS	C-N-CA	5.50	128.09	120.29
7	M	1288	ASN	O-C-N	5.50	127.73	122.07
8	N	1152	GLU	CB-CG-CD	5.50	121.94	112.60
9	Q	217	ARG	NE-CZ-NH2	5.50	124.15	119.20
10	U	267	ILE	CA-C-N	5.50	127.65	120.28
10	U	267	ILE	C-N-CA	5.50	127.65	120.28
2	0	394	GLU	CA-C-O	-5.50	113.78	120.54
8	P	1152	GLU	CB-CG-CD	5.50	121.94	112.60
8	P	1418	LEU	CB-CA-C	-5.50	101.66	110.79
9	T	421	SER	N-CA-C	-5.50	106.34	113.16
7	M	774	ARG	NE-CZ-NH1	-5.50	116.00	121.50
8	N	615	LEU	CA-C-N	5.50	127.96	120.54
8	N	615	LEU	C-N-CA	5.50	127.96	120.54
8	N	725	LEU	CA-C-O	5.50	126.14	119.38
8	N	1525	PHE	CA-CB-CG	-5.50	108.31	113.80
9	Q	255	GLU	CA-C-N	5.50	127.64	120.28
9	Q	255	GLU	C-N-CA	5.50	127.64	120.28
3	1	619	GLU	N-CA-C	-5.50	105.37	111.36
8	P	712	LEU	CA-C-N	5.50	127.64	120.28
8	P	712	LEU	C-N-CA	5.50	127.64	120.28
9	S	262	SER	CA-C-O	-5.50	112.62	119.38
2	Y	101	LEU	N-CA-C	-5.49	105.37	111.36
3	Z	769	HIS	ND1-CE1-NE2	5.49	113.89	108.40
7	M	437	ASP	CA-C-O	-5.49	114.73	120.55
8	N	998	LEU	O-C-N	-5.49	116.30	122.12
6	I	279	GLN	N-CA-CB	5.49	118.29	110.16
7	O	1288	ASN	O-C-N	5.49	127.73	122.07
8	P	196	ASN	N-CA-C	5.49	117.27	111.28
9	S	767	ILE	N-CA-C	-5.49	105.76	111.58
6	F	355	GLN	N-CA-C	-5.49	106.49	114.12
7	M	890	VAL	CA-C-O	5.49	126.40	120.47
8	P	1372	THR	N-CA-C	-5.49	105.94	113.30
7	M	729	MET	CG-SD-CE	-5.49	88.82	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	1056	LEU	CA-C-N	5.49	127.58	120.44
7	M	1056	LEU	C-N-CA	5.49	127.58	120.44
8	N	112	ILE	O-C-N	5.49	127.29	121.91
9	R	456	ARG	N-CA-CB	5.49	119.22	110.16
10	U	267	ILE	N-CA-C	5.49	116.27	110.72
2	0	486	GLN	OE1-CD-NE2	-5.49	117.11	122.60
2	0	1416	PHE	CB-CG-CD1	-5.49	111.36	120.70
3	1	190	GLU	CA-C-O	-5.49	114.42	120.30
7	O	807	ASP	CA-CB-CG	5.49	118.09	112.60
8	P	993	SER	CA-C-N	5.49	129.15	120.47
8	P	993	SER	C-N-CA	5.49	129.15	120.47
9	S	747	PHE	N-CA-C	-5.49	107.83	114.75
9	T	226	ARG	NE-CZ-NH1	-5.49	116.01	121.50
6	C	353	LEU	CA-C-O	-5.49	114.73	120.55
7	M	1346	ASN	CA-CB-CG	-5.49	107.11	112.60
7	M	1429	ASP	N-CA-CB	5.49	118.19	110.12
9	R	69	ALA	CA-C-O	-5.49	115.06	120.82
11	V	377	PHE	CA-CB-CG	5.49	119.29	113.80
2	0	1189	LYS	N-CA-CB	5.49	119.00	110.44
3	1	973	LYS	N-CA-C	-5.49	105.45	111.82
8	P	41	ARG	CA-C-N	5.49	127.64	120.28
8	P	41	ARG	C-N-CA	5.49	127.64	120.28
8	P	369	LEU	O-C-N	-5.49	115.31	122.39
8	P	1460	LEU	N-CA-CB	5.49	118.19	110.12
9	T	40	GLY	CA-C-N	5.49	132.02	121.54
9	T	40	GLY	C-N-CA	5.49	132.02	121.54
2	Y	521	LYS	N-CA-C	5.49	117.41	110.33
9	R	226	ARG	NE-CZ-NH1	-5.49	116.01	121.50
2	0	615	PHE	CB-CG-CD1	5.49	130.03	120.70
7	O	29	LEU	N-CA-C	5.49	121.08	113.45
7	O	995	VAL	CA-C-N	5.49	127.63	120.28
7	O	995	VAL	C-N-CA	5.49	127.63	120.28
7	O	1429	ASP	N-CA-CB	5.49	118.19	110.12
2	Y	670	VAL	N-CA-C	5.49	116.22	110.62
2	Y	969	SER	CA-C-N	5.49	127.47	120.56
2	Y	969	SER	C-N-CA	5.49	127.47	120.56
3	Z	169	LEU	CA-C-N	5.49	130.15	122.36
3	Z	169	LEU	C-N-CA	5.49	130.15	122.36
7	M	784	ILE	CA-C-N	5.49	127.57	120.44
7	M	784	ILE	C-N-CA	5.49	127.57	120.44
8	N	246	ASN	N-CA-CB	5.49	119.76	110.49
8	N	861	ILE	CA-C-O	5.49	126.65	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	Q	670	LEU	N-CA-C	-5.49	106.26	113.17
9	R	446	LYS	N-CA-CB	5.49	119.38	110.17
4	G	677	SER	N-CA-CB	5.49	118.28	110.16
7	O	1498	LEU	N-CA-CB	5.49	118.18	110.12
8	P	1239	ASP	CA-C-O	-5.49	114.68	120.55
3	Z	1341	LYS	CA-C-N	5.48	127.63	120.28
3	Z	1341	LYS	C-N-CA	5.48	127.63	120.28
9	R	603	VAL	CA-C-N	5.48	128.21	120.42
9	R	603	VAL	C-N-CA	5.48	128.21	120.42
2	Y	1379	GLN	OE1-CD-NE2	5.48	128.08	122.60
8	N	1239	ASP	CA-C-O	-5.48	114.69	120.55
9	Q	827	GLU	N-CA-CB	5.48	118.78	110.28
2	0	868	VAL	O-C-N	-5.48	116.69	122.67
7	O	217	LEU	CA-C-N	5.48	127.63	120.28
7	O	217	LEU	C-N-CA	5.48	127.63	120.28
8	P	800	ASN	N-CA-C	5.48	118.02	111.71
8	P	1045	ALA	CA-C-N	5.48	127.63	120.28
8	P	1045	ALA	C-N-CA	5.48	127.63	120.28
9	S	709	LYS	CA-C-N	5.48	127.62	120.28
9	S	709	LYS	C-N-CA	5.48	127.62	120.28
8	N	374	VAL	N-CA-C	5.48	116.21	110.62
8	N	993	SER	CA-C-N	5.48	129.13	120.47
8	N	993	SER	C-N-CA	5.48	129.13	120.47
8	P	790	LYS	CB-CA-C	-5.48	100.49	110.63
9	S	495	THR	N-CA-CB	5.48	118.18	110.12
6	F	452	ASP	CA-CB-CG	5.48	118.08	112.60
9	Q	768	VAL	CA-C-N	5.48	128.17	120.28
9	Q	768	VAL	C-N-CA	5.48	128.17	120.28
9	R	661	LEU	CA-C-N	5.48	127.56	120.44
9	R	661	LEU	C-N-CA	5.48	127.56	120.44
8	P	1649	ASP	CB-CA-C	-5.48	100.50	110.63
9	T	214	ASN	N-CA-C	5.48	117.25	111.28
2	Y	218	ARG	CA-C-O	-5.48	115.22	120.97
2	Y	615	PHE	CB-CG-CD1	5.48	130.01	120.70
6	C	460	LEU	CA-C-N	5.48	128.07	120.29
6	C	460	LEU	C-N-CA	5.48	128.07	120.29
4	D	725	VAL	CG1-CB-CG2	-5.48	98.75	110.80
7	M	1208	GLU	O-C-N	5.48	127.56	121.53
7	M	1298	LEU	N-CA-CB	5.48	118.27	110.16
2	0	1269	ALA	N-CA-C	5.48	118.17	111.82
3	1	833	GLY	CA-C-N	5.48	128.79	121.01
3	1	833	GLY	C-N-CA	5.48	128.79	121.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	T	497	THR	CA-CB-OG1	5.48	117.82	109.60
2	Y	964	ARG	N-CA-C	5.48	117.25	111.28
7	M	217	LEU	CA-C-N	5.48	127.62	120.28
7	M	217	LEU	C-N-CA	5.48	127.62	120.28
2	0	571	THR	CA-CB-OG1	5.48	117.81	109.60
6	L	388	CYS	CA-C-N	5.48	127.56	120.44
6	L	388	CYS	C-N-CA	5.48	127.56	120.44
7	M	1531	THR	CA-C-N	5.47	128.06	120.29
7	M	1531	THR	C-N-CA	5.47	128.06	120.29
8	N	790	LYS	CB-CA-C	-5.47	100.50	110.63
9	R	280	GLN	OE1-CD-NE2	-5.47	117.12	122.60
10	U	346	SER	CB-CA-C	-5.47	102.99	110.22
2	0	1160	HIS	CA-C-N	5.47	127.62	120.28
2	0	1160	HIS	C-N-CA	5.47	127.62	120.28
3	1	506	ILE	CA-C-N	5.47	129.96	122.84
3	1	506	ILE	C-N-CA	5.47	129.96	122.84
8	P	1551	THR	CA-C-O	-5.47	114.75	120.55
9	Q	158	LEU	CA-C-N	5.47	127.55	120.44
9	Q	158	LEU	C-N-CA	5.47	127.55	120.44
9	R	304	LYS	CA-C-N	5.47	128.19	120.42
9	R	304	LYS	C-N-CA	5.47	128.19	120.42
2	0	788	HIS	CB-CG-ND1	5.47	130.91	122.70
7	O	915	ALA	CB-CA-C	-5.47	101.71	110.79
9	S	412	TYR	CA-C-N	5.47	127.55	120.44
9	S	412	TYR	C-N-CA	5.47	127.55	120.44
9	S	431	SER	CA-C-O	5.47	127.24	121.33
2	Y	1001	ILE	O-C-N	-5.47	116.55	121.91
7	M	273	VAL	CA-C-N	5.47	127.88	120.44
7	M	273	VAL	C-N-CA	5.47	127.88	120.44
9	Q	237	GLU	N-CA-CB	5.47	118.16	110.12
2	0	1087	GLY	CA-C-N	5.47	131.99	121.54
2	0	1087	GLY	C-N-CA	5.47	131.99	121.54
8	P	262	SER	N-CA-CB	5.47	118.16	110.12
3	Z	586	TYR	N-CA-C	-5.47	106.07	114.16
5	E	408	ILE	N-CA-C	-5.47	105.17	110.42
7	M	1151	LEU	N-CA-CB	5.47	118.16	110.12
8	N	474	ASP	N-CA-C	-5.47	99.49	108.41
2	0	1129	ASN	CB-CA-C	5.47	118.89	110.14
3	1	1270	ILE	O-C-N	5.47	127.46	121.83
4	G	723	SER	CB-CA-C	5.47	119.56	110.81
7	O	1346	ASN	CA-CB-CG	-5.47	107.13	112.60
8	P	474	ASP	N-CA-C	-5.47	99.50	108.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	T	752	SER	CA-C-O	-5.47	113.92	120.10
2	Y	1129	ASN	CB-CA-C	5.47	118.89	110.14
4	J	752	ASP	CA-CB-CG	5.47	118.07	112.60
5	K	408	ILE	N-CA-C	-5.47	105.17	110.42
7	O	890	VAL	CA-C-O	5.47	126.38	120.47
7	O	981	ALA	CB-CA-C	-5.47	102.30	110.88
9	S	615	ASP	CB-CA-C	-5.47	101.88	110.79
9	T	85	ALA	N-CA-CB	5.47	119.73	110.49
9	T	249	ARG	CA-C-N	5.47	128.06	120.29
9	T	249	ARG	C-N-CA	5.47	128.06	120.29
2	0	455	PHE	N-CA-CB	5.47	119.73	110.49
2	0	922	PHE	CA-CB-CG	-5.47	108.33	113.80
2	0	954	ALA	CA-C-O	-5.47	113.92	120.54
3	1	1299	LYS	CB-CA-C	5.47	120.48	109.38
7	O	437	ASP	CA-C-O	-5.47	114.75	120.55
7	O	653	ALA	CA-C-N	5.47	127.61	120.28
7	O	653	ALA	C-N-CA	5.47	127.61	120.28
7	O	692	TYR	CA-C-O	-5.47	114.73	120.63
7	O	1636	LEU	CA-C-O	5.47	126.34	120.55
8	P	507	PRO	N-CA-C	-5.47	104.03	110.70
8	P	1127	ASN	OD1-CG-ND2	-5.47	117.13	122.60
9	T	530	ARG	N-CA-CB	5.47	119.21	110.46
2	Y	788	HIS	CB-CG-ND1	5.46	130.90	122.70
2	Y	1348	ARG	CA-C-O	-5.46	114.76	120.55
6	F	307	SER	CA-CB-OG	5.46	122.03	111.10
8	N	407	ALA	N-CA-CB	5.46	116.08	109.74
8	N	502	ASP	N-CA-CB	5.46	118.68	109.94
8	N	798	SER	CA-C-N	5.46	127.60	120.28
8	N	798	SER	C-N-CA	5.46	127.60	120.28
2	0	219	PRO	N-CA-CB	5.46	108.99	103.25
5	H	317	ASN	CB-CA-C	-5.46	100.67	111.60
5	H	337	GLN	N-CA-CB	5.46	117.93	110.01
4	J	725	VAL	CG1-CB-CG2	-5.46	98.78	110.80
7	M	1294	LYS	CA-C-N	5.46	127.60	120.28
7	M	1294	LYS	C-N-CA	5.46	127.60	120.28
2	0	218	ARG	CA-C-O	-5.46	115.23	120.97
2	0	473	THR	CA-C-N	5.46	126.67	119.84
2	0	473	THR	C-N-CA	5.46	126.67	119.84
2	0	1121	LYS	N-CA-C	5.46	119.04	112.38
2	0	1348	ARG	CA-C-O	-5.46	114.76	120.55
2	Y	177	PRO	CA-C-N	5.46	129.84	120.72
2	Y	177	PRO	C-N-CA	5.46	129.84	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	653	ALA	CA-C-N	5.46	127.60	120.28
7	M	653	ALA	C-N-CA	5.46	127.60	120.28
9	R	308	PHE	CA-C-O	-5.46	114.76	120.55
3	1	1121	SER	O-C-N	5.46	129.31	122.65
7	O	1006	LEU	N-CA-C	5.46	117.23	111.28
7	O	1208	GLU	O-C-N	5.46	127.54	121.53
7	O	1512	LEU	CA-C-O	-5.46	114.76	120.55
8	P	1593	HIS	ND1-CE1-NE2	5.46	113.86	108.40
9	S	252	GLN	CB-CA-C	-5.46	101.72	110.79
2	0	123	GLU	N-CA-C	-5.46	100.42	108.99
2	Y	1160	HIS	CA-C-N	5.46	127.59	120.28
2	Y	1160	HIS	C-N-CA	5.46	127.59	120.28
3	Z	1336	VAL	N-CA-C	5.46	117.87	111.05
3	1	586	TYR	N-CA-C	-5.46	106.08	114.16
8	P	506	ALA	CA-C-O	-5.46	114.90	119.76
8	P	1397	ASN	CA-CB-CG	5.46	118.06	112.60
2	Y	455	PHE	N-CA-CB	5.46	119.71	110.49
6	F	388	CYS	CA-C-N	5.46	127.53	120.44
6	F	388	CYS	C-N-CA	5.46	127.53	120.44
7	M	92	ILE	O-C-N	5.46	127.16	121.87
9	Q	354	VAL	N-CA-C	5.46	115.66	110.53
2	0	1347	LEU	CA-C-O	-5.46	114.64	120.42
3	1	977	GLY	CA-C-N	5.46	130.32	122.35
3	1	977	GLY	C-N-CA	5.46	130.32	122.35
3	Z	1048	MET	N-CA-C	5.46	119.10	112.23
8	N	1397	ASN	CA-CB-CG	5.46	118.06	112.60
3	1	844	PHE	CA-CB-CG	5.46	119.25	113.80
4	G	688	HIS	CB-CG-ND1	5.46	130.88	122.70
11	X	377	PHE	CA-CB-CG	5.46	119.25	113.80
3	Z	1299	LYS	CB-CA-C	5.45	120.45	109.38
7	M	1102	LYS	CA-C-O	-5.45	114.77	120.55
8	N	1371	HIS	CG-CD2-NE2	5.45	112.65	107.20
9	S	354	VAL	N-CA-C	5.45	115.66	110.53
9	T	308	PHE	CA-C-O	-5.45	114.77	120.55
7	M	1210	LYS	CA-C-N	5.45	130.24	122.72
7	M	1210	LYS	C-N-CA	5.45	130.24	122.72
9	R	484	LEU	O-C-N	5.45	128.60	122.22
9	T	446	LYS	N-CA-CB	5.45	119.33	110.17
7	M	915	ALA	CB-CA-C	-5.45	101.74	110.79
8	N	1197	VAL	CA-C-O	-5.45	115.28	120.95
9	Q	412	TYR	CA-C-N	5.45	127.52	120.44
9	Q	412	TYR	C-N-CA	5.45	127.52	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1	1133	CYS	CA-C-N	5.45	127.58	120.28
3	1	1133	CYS	C-N-CA	5.45	127.58	120.28
7	O	776	VAL	CA-C-N	5.45	127.58	120.28
7	O	776	VAL	C-N-CA	5.45	127.58	120.28
8	P	407	ALA	N-CA-CB	5.45	116.06	109.74
2	Y	634	SER	N-CA-C	-5.45	101.01	109.24
3	Z	611	ILE	CA-C-O	-5.45	114.70	120.53
4	A	723	SER	CB-CA-C	5.45	119.53	110.81
7	M	1202	ASN	N-CA-C	-5.45	106.64	113.72
8	N	506	ALA	CA-C-O	-5.45	114.91	119.76
6	L	397	ALA	O-C-N	5.45	127.89	122.12
7	O	1151	LEU	N-CA-CB	5.45	118.13	110.12
8	P	1371	HIS	CG-CD2-NE2	5.45	112.65	107.20
9	S	158	LEU	CA-C-N	5.45	127.52	120.44
9	S	158	LEU	C-N-CA	5.45	127.52	120.44
9	T	405	ASP	CA-CB-CG	5.45	118.05	112.60
3	Z	1141	CYS	CA-C-N	5.45	130.67	121.14
3	Z	1141	CYS	C-N-CA	5.45	130.67	121.14
4	A	688	HIS	CG-CD2-NE2	5.45	112.65	107.20
9	R	85	ALA	N-CA-CB	5.45	119.70	110.49
2	0	191	ILE	N-CA-CB	5.45	118.66	111.25
2	Y	433	ASN	CA-C-N	5.45	129.62	121.72
2	Y	433	ASN	C-N-CA	5.45	129.62	121.72
8	N	551	ASN	CA-CB-CG	-5.45	107.16	112.60
3	1	359	THR	CA-CB-OG1	5.45	117.77	109.60
3	1	828	THR	CA-C-O	-5.45	114.65	120.42
3	1	1336	VAL	N-CA-C	5.45	117.86	111.05
7	O	774	ARG	NE-CZ-NH1	-5.45	116.05	121.50
7	O	1040	THR	CA-CB-OG1	5.45	117.77	109.60
2	Y	1269	ALA	N-CA-C	5.44	118.14	111.82
2	Y	1303	SER	O-C-N	-5.44	116.58	122.79
3	Z	799	ILE	N-CA-C	5.44	116.17	110.62
6	F	397	ALA	O-C-N	5.44	127.89	122.12
7	M	496	SER	N-CA-C	5.44	117.97	111.71
8	N	507	PRO	N-CA-C	-5.44	104.06	110.70
8	N	1357	CYS	CA-C-N	5.44	128.59	120.31
8	N	1357	CYS	C-N-CA	5.44	128.59	120.31
8	N	1649	ASP	CB-CA-C	-5.44	100.56	110.63
9	R	530	ARG	N-CA-CB	5.44	119.17	110.46
2	0	177	PRO	CA-C-N	5.44	129.81	120.72
2	0	177	PRO	C-N-CA	5.44	129.81	120.72
4	G	641	VAL	CB-CA-C	5.44	121.03	112.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y	1462	PHE	CA-CB-CG	-5.44	108.36	113.80
7	M	1071	ALA	CA-C-N	5.44	124.78	118.85
7	M	1071	ALA	C-N-CA	5.44	124.78	118.85
8	N	300	SER	CB-CA-C	5.44	119.82	110.79
9	R	204	GLU	N-CA-C	5.44	116.89	111.07
2	0	264	PRO	CA-C-O	-5.44	115.14	121.34
2	0	670	VAL	N-CA-C	5.44	116.17	110.62
4	J	652	ALA	N-CA-C	5.44	116.89	111.07
7	O	1095	LEU	O-C-N	-5.44	116.21	122.09
7	M	1040	THR	CA-CB-OG1	5.44	117.76	109.60
3	1	611	ILE	CA-C-O	-5.44	114.71	120.53
7	O	1294	LYS	CA-C-N	5.44	127.57	120.28
7	O	1294	LYS	C-N-CA	5.44	127.57	120.28
7	O	1531	THR	CA-C-N	5.44	128.01	120.29
7	O	1531	THR	C-N-CA	5.44	128.01	120.29
3	Z	844	PHE	CA-CB-CG	5.44	119.24	113.80
7	M	103	LYS	CB-CA-C	-5.44	102.34	110.88
7	M	1201	LEU	CA-C-O	5.44	126.01	119.43
7	M	1512	LEU	CA-C-O	-5.44	114.78	120.55
8	N	1374	GLN	CA-C-N	5.44	130.32	121.62
8	N	1374	GLN	C-N-CA	5.44	130.32	121.62
9	Q	537	ILE	CA-C-N	5.44	127.84	120.44
9	Q	537	ILE	C-N-CA	5.44	127.84	120.44
2	0	477	ILE	N-CA-CB	5.44	116.55	110.51
8	P	1408	LEU	N-CA-CB	5.44	117.90	110.01
3	Z	414	MET	CA-C-N	5.44	127.57	120.28
3	Z	414	MET	C-N-CA	5.44	127.57	120.28
4	D	652	ALA	N-CA-C	5.44	116.89	111.07
8	N	1305	ASN	N-CA-C	-5.44	100.31	108.96
3	1	169	LEU	CA-C-N	5.44	130.08	122.36
3	1	169	LEU	C-N-CA	5.44	130.08	122.36
3	1	1341	LYS	CA-C-N	5.44	127.57	120.28
3	1	1341	LYS	C-N-CA	5.44	127.57	120.28
7	O	623	VAL	N-CA-C	-5.44	100.54	108.97
7	O	628	LYS	CA-C-N	5.44	128.01	120.29
7	O	628	LYS	C-N-CA	5.44	128.01	120.29
2	Y	1393	ILE	CA-C-N	5.44	127.91	120.46
2	Y	1393	ILE	C-N-CA	5.44	127.91	120.46
7	O	1201	LEU	CA-C-O	5.44	126.01	119.43
8	P	1204	ALA	CB-CA-C	-5.44	101.77	110.79
3	Z	540	VAL	N-CA-C	-5.43	100.65	108.48
3	Z	576	SER	N-CA-CB	5.43	117.96	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	796	ILE	CA-CB-CG2	-5.43	101.26	110.50
7	M	807	ASP	CA-CB-CG	5.43	118.03	112.60
7	M	1285	HIS	N-CA-C	5.43	117.20	111.28
9	Q	668	SER	CA-C-N	5.43	128.96	120.75
9	Q	668	SER	C-N-CA	5.43	128.96	120.75
2	0	1113	ILE	CA-C-O	-5.43	115.30	120.95
3	1	874	ASN	CA-C-N	5.43	127.41	120.56
3	1	874	ASN	C-N-CA	5.43	127.41	120.56
7	O	466	ASP	N-CA-C	-5.43	100.85	109.76
8	P	112	ILE	O-C-N	5.43	127.24	121.91
8	P	187	PHE	CA-CB-CG	5.43	119.23	113.80
8	P	997	VAL	CA-C-N	5.43	127.56	120.28
8	P	997	VAL	C-N-CA	5.43	127.56	120.28
8	P	1197	VAL	CA-C-O	-5.43	115.30	120.95
9	T	484	LEU	O-C-N	5.43	128.58	122.22
2	Y	1121	LYS	N-CA-C	5.43	119.01	112.38
2	Y	1347	LEU	CA-C-O	-5.43	114.66	120.42
4	A	641	VAL	CB-CA-C	5.43	121.02	112.16
9	Q	252	GLN	CB-CA-C	-5.43	101.77	110.79
9	R	529	LYS	N-CA-C	5.43	119.63	112.89
2	0	433	ASN	CA-C-N	5.43	129.60	121.72
2	0	433	ASN	C-N-CA	5.43	129.60	121.72
7	O	534	SER	CB-CA-C	-5.43	101.30	110.64
9	S	690	ARG	O-C-N	5.43	127.67	122.07
9	T	203	ASN	CA-C-O	5.43	127.91	121.17
3	Z	977	GLY	CA-C-N	5.43	130.28	122.35
3	Z	977	GLY	C-N-CA	5.43	130.28	122.35
5	E	410	LYS	CA-C-N	5.43	128.57	120.31
5	E	410	LYS	C-N-CA	5.43	128.57	120.31
7	M	838	LYS	CA-C-N	5.43	127.56	120.28
7	M	838	LYS	C-N-CA	5.43	127.56	120.28
8	N	1030	SER	CA-C-N	5.43	129.37	120.63
8	N	1030	SER	C-N-CA	5.43	129.37	120.63
3	1	962	LYS	CG-CD-CE	5.43	123.79	111.30
9	S	341	LEU	CA-C-O	-5.43	114.79	120.55
9	T	304	LYS	CA-C-N	5.43	128.13	120.42
9	T	304	LYS	C-N-CA	5.43	128.13	120.42
2	Y	123	GLU	N-CA-C	-5.43	100.47	108.99
2	Y	191	ILE	N-CA-CB	5.43	118.63	111.25
2	Y	635	GLU	CA-C-N	5.43	129.06	121.02
2	Y	635	GLU	C-N-CA	5.43	129.06	121.02
7	M	209	ASN	CA-C-N	5.43	127.56	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	209	ASN	C-N-CA	5.43	127.56	120.28
7	M	466	ASP	CA-CB-CG	5.43	118.03	112.60
7	M	785	TYR	CB-CG-CD1	-5.43	112.66	120.80
8	N	732	LYS	N-CA-C	5.43	117.95	111.71
8	N	997	VAL	CA-C-N	5.43	127.56	120.28
8	N	997	VAL	C-N-CA	5.43	127.56	120.28
9	R	421	SER	N-CA-C	-5.43	106.43	113.16
9	R	798	THR	N-CA-C	-5.43	105.47	113.61
2	0	486	GLN	N-CA-CB	5.43	118.10	110.12
8	P	998	LEU	O-C-N	-5.43	116.37	122.12
6	F	389	ARG	NH1-CZ-NH2	5.43	126.36	119.30
8	N	262	SER	N-CA-CB	5.43	118.10	110.12
7	O	1056	LEU	CA-C-N	5.43	127.50	120.44
7	O	1056	LEU	C-N-CA	5.43	127.50	120.44
9	T	602	GLY	O-C-N	-5.43	115.37	122.81
2	Y	1175	LEU	O-C-N	5.43	128.95	122.27
3	Z	874	ASN	CA-C-N	5.43	127.40	120.56
3	Z	874	ASN	C-N-CA	5.43	127.40	120.56
7	M	942	LEU	CA-C-N	5.43	127.81	120.38
7	M	942	LEU	C-N-CA	5.43	127.81	120.38
9	Q	431	SER	CA-C-O	5.43	127.19	121.33
5	H	387	GLN	CA-C-N	5.43	127.55	120.28
5	H	387	GLN	C-N-CA	5.43	127.55	120.28
6	I	353	LEU	CA-C-O	-5.43	114.80	120.55
7	O	784	ILE	CA-C-N	5.43	127.49	120.44
7	O	784	ILE	C-N-CA	5.43	127.49	120.44
7	O	838	LYS	CA-C-N	5.43	127.55	120.28
7	O	838	LYS	C-N-CA	5.43	127.55	120.28
8	P	502	ASP	N-CA-CB	5.43	118.62	109.94
9	S	423	LYS	CB-CA-C	-5.43	101.09	109.29
9	T	70	HIS	CA-C-N	5.43	127.50	120.44
9	T	70	HIS	C-N-CA	5.43	127.50	120.44
9	T	798	THR	N-CA-C	-5.43	105.47	113.61
3	Z	594	TYR	CA-C-O	5.42	125.95	119.60
3	Z	962	LYS	CG-CD-CE	5.42	123.78	111.30
4	A	710	PHE	CA-C-N	5.42	127.55	120.28
4	A	710	PHE	C-N-CA	5.42	127.55	120.28
7	M	623	VAL	N-CA-C	-5.42	100.56	108.97
7	M	1465	GLN	N-CA-C	5.42	117.19	111.28
7	M	1636	LEU	CA-C-O	5.42	126.30	120.55
8	N	50	ASN	CA-CB-CG	5.42	118.03	112.60
9	Q	637	ILE	N-CA-CB	5.42	117.92	110.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	0	585	ILE	N-CA-CB	5.42	117.92	110.54
3	1	540	VAL	N-CA-C	-5.42	100.67	108.48
4	G	756	ASN	CA-CB-CG	5.42	118.02	112.60
5	K	326	LYS	CA-C-N	-5.42	114.39	120.14
5	K	326	LYS	C-N-CA	-5.42	114.39	120.14
7	O	822	CYS	N-CA-CB	5.42	118.50	109.98
9	S	637	ILE	N-CA-CB	5.42	117.92	110.54
9	T	280	GLN	OE1-CD-NE2	-5.42	117.18	122.60
9	T	771	ILE	CA-C-O	-5.42	114.24	118.85
7	M	822	CYS	N-CA-CB	5.42	118.49	109.98
8	P	774	ILE	CA-C-N	5.42	127.55	120.28
8	P	774	ILE	C-N-CA	5.42	127.55	120.28
3	Z	152	SER	O-C-N	5.42	127.87	122.12
3	Z	359	THR	CA-CB-OG1	5.42	117.73	109.60
3	Z	802	ILE	N-CA-CB	5.42	117.91	110.54
8	N	187	PHE	CA-CB-CG	5.42	119.22	113.80
2	0	1462	PHE	CA-CB-CG	-5.42	108.38	113.80
4	G	756	ASN	CA-C-N	5.42	127.99	120.29
4	G	756	ASN	C-N-CA	5.42	127.99	120.29
5	K	410	LYS	CA-C-N	5.42	128.55	120.31
5	K	410	LYS	C-N-CA	5.42	128.55	120.31
8	P	725	LEU	CA-C-O	5.42	126.05	119.38
8	P	1047	LEU	CA-C-N	5.42	128.09	120.28
8	P	1047	LEU	C-N-CA	5.42	128.09	120.28
8	P	1189	ASP	CA-CB-CG	-5.42	107.18	112.60
2	Y	477	ILE	N-CA-CB	5.42	116.53	110.51
2	Y	1113	ILE	CA-C-O	-5.42	115.31	120.95
8	N	1042	SER	CA-C-O	-5.42	114.67	120.42
9	R	135	ASP	CA-C-N	5.42	127.54	120.28
9	R	135	ASP	C-N-CA	5.42	127.54	120.28
2	0	956	ASN	N-CA-C	-5.42	103.23	110.55
3	1	576	SER	N-CA-CB	5.42	117.94	109.97
7	O	643	THR	CA-CB-OG1	5.42	117.73	109.60
7	O	1465	GLN	N-CA-C	5.42	117.19	111.28
8	P	1298	ASN	N-CA-C	5.42	117.27	111.36
7	M	1110	MET	N-CA-CB	5.42	118.68	110.28
8	N	1125	GLU	CA-C-N	5.42	127.54	120.28
8	N	1125	GLU	C-N-CA	5.42	127.54	120.28
8	N	1540	LYS	N-CA-C	-5.42	105.89	112.88
7	O	103	LYS	CB-CA-C	-5.42	102.37	110.88
7	O	942	LEU	CA-C-N	5.42	127.80	120.38
7	O	942	LEU	C-N-CA	5.42	127.80	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	150	GLN	O-C-N	5.42	127.86	122.12
8	P	594	ILE	O-C-N	5.42	127.53	121.90
8	P	1008	THR	CA-C-N	5.42	125.36	119.78
8	P	1008	THR	C-N-CA	5.42	125.36	119.78
2	Y	1416	PHE	CB-CG-CD1	-5.42	111.49	120.70
3	Z	828	THR	CA-C-O	-5.42	114.68	120.42
8	N	655	VAL	N-CA-CB	5.42	116.89	110.55
8	N	1189	ASP	CA-CB-CG	-5.42	107.18	112.60
8	N	1408	LEU	N-CA-CB	5.42	117.86	110.01
3	1	1284	PRO	CA-N-CD	-5.42	104.42	112.00
7	O	466	ASP	CA-CB-CG	5.42	118.02	112.60
10	W	352	GLN	CB-CA-C	-5.42	101.57	110.72
3	1	769	HIS	ND1-CE1-NE2	5.42	113.81	108.40
3	1	1001	ARG	CA-C-N	5.42	127.88	120.46
3	1	1001	ARG	C-N-CA	5.42	127.88	120.46
4	J	774	ASN	N-CA-CB	5.42	118.56	110.22
7	O	1102	LYS	CA-C-O	-5.42	114.81	120.55
5	E	453	LEU	CA-C-O	5.41	125.90	119.67
7	M	163	ASN	CA-C-N	5.41	127.98	120.29
7	M	163	ASN	C-N-CA	5.41	127.98	120.29
7	M	1202	ASN	N-CA-CB	5.41	118.61	110.65
8	N	774	ILE	CA-C-N	5.41	127.53	120.28
8	N	774	ILE	C-N-CA	5.41	127.53	120.28
8	N	1204	ALA	CB-CA-C	-5.41	101.80	110.79
9	Q	423	LYS	CB-CA-C	-5.41	101.11	109.29
9	Q	690	ARG	O-C-N	5.41	127.64	122.07
2	0	634	SER	N-CA-C	-5.41	101.07	109.24
2	0	1164	TRP	O-C-N	5.41	128.32	122.15
5	K	453	LEU	CA-C-O	5.41	125.90	119.67
8	P	1094	SER	CA-C-N	5.41	127.53	120.28
8	P	1094	SER	C-N-CA	5.41	127.53	120.28
2	Y	956	ASN	N-CA-C	-5.41	103.24	110.55
2	0	189	LYS	CA-C-O	-5.41	114.79	120.80
2	0	1120	GLU	CB-CA-C	-5.41	100.80	110.70
9	S	668	SER	CA-C-N	5.41	128.92	120.75
9	S	668	SER	C-N-CA	5.41	128.92	120.75
3	Z	394	LYS	N-CA-CB	5.41	117.92	109.97
4	A	688	HIS	CB-CG-ND1	5.41	130.81	122.70
6	F	301	HIS	CB-CG-CD2	-5.41	124.17	131.20
9	Q	702	ILE	CB-CA-C	-5.41	104.93	112.02
3	1	611	ILE	O-C-N	5.41	129.43	123.10
9	S	217	ARG	NE-CZ-NH2	5.41	124.07	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	356	ASN	CB-CG-ND2	5.41	124.52	116.40
9	T	661	LEU	CA-C-N	5.41	127.47	120.44
9	T	661	LEU	C-N-CA	5.41	127.47	120.44
3	Z	1035	PRO	CA-C-N	5.41	127.97	120.29
3	Z	1035	PRO	C-N-CA	5.41	127.97	120.29
3	Z	1134	LEU	N-CA-C	5.41	117.17	111.28
3	Z	1270	ILE	O-C-N	5.41	127.40	121.83
7	M	857	GLY	CA-C-N	5.41	126.09	120.03
7	M	857	GLY	C-N-CA	5.41	126.09	120.03
7	M	1167	LYS	CA-C-O	5.41	126.27	120.70
7	M	1672	MET	N-CA-C	5.41	116.86	111.07
9	R	405	ASP	CA-CB-CG	5.41	118.01	112.60
7	O	249	ASP	CA-C-N	5.41	127.79	120.38
7	O	249	ASP	C-N-CA	5.41	127.79	120.38
2	Y	219	PRO	N-CA-CB	5.41	108.92	103.25
4	G	688	HIS	CG-CD2-NE2	5.41	112.61	107.20
6	L	295	LYS	N-CA-C	5.41	117.25	111.36
7	O	1285	HIS	N-CA-C	5.41	117.17	111.28
8	P	300	SER	CB-CA-C	5.41	119.76	110.79
8	P	1151	ASN	N-CA-C	-5.41	103.85	110.61
8	P	1360	ASN	CB-CG-OD1	-5.41	109.99	120.80
9	T	118	GLU	CA-C-N	5.41	127.84	120.54
9	T	118	GLU	C-N-CA	5.41	127.84	120.54
2	Y	1120	GLU	CB-CA-C	-5.40	100.81	110.70
2	Y	1147	GLU	N-CA-CB	-5.40	101.90	110.28
9	R	284	GLN	N-CA-C	5.40	117.17	111.28
2	0	113	HIS	CB-CG-CD2	-5.40	124.17	131.20
2	0	1106	ASP	N-CA-CB	5.40	118.54	110.22
5	H	373	ARG	CA-C-N	5.40	127.86	120.46
5	H	373	ARG	C-N-CA	5.40	127.86	120.46
7	M	466	ASP	N-CA-C	-5.40	100.90	109.76
8	N	150	GLN	O-C-N	5.40	127.85	122.12
9	R	118	GLU	CA-C-N	5.40	127.83	120.54
9	R	118	GLU	C-N-CA	5.40	127.83	120.54
2	0	969	SER	CA-C-N	5.40	127.37	120.56
2	0	969	SER	C-N-CA	5.40	127.37	120.56
2	0	1393	ILE	CA-C-N	5.40	127.86	120.46
2	0	1393	ILE	C-N-CA	5.40	127.86	120.46
3	1	394	LYS	N-CA-CB	5.40	117.91	109.97
3	1	913	ALA	N-CA-C	5.40	117.17	111.28
7	O	785	TYR	CB-CG-CD1	-5.40	112.70	120.80
7	O	1287	THR	CA-C-N	5.40	127.46	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	1287	THR	C-N-CA	5.40	127.46	120.44
10	W	267	ILE	CA-C-N	5.40	127.52	120.28
10	W	267	ILE	C-N-CA	5.40	127.52	120.28
6	C	295	LYS	O-C-N	5.40	127.84	122.12
5	E	529	LYS	CA-C-O	-5.40	113.76	119.97
7	M	1617	SER	N-CA-C	-5.40	105.39	112.41
8	N	1365	ARG	NE-CZ-NH1	5.40	126.90	121.50
9	R	692	MET	CG-SD-CE	-5.40	89.02	100.90
2	0	635	GLU	CA-C-N	5.40	129.01	121.02
2	0	635	GLU	C-N-CA	5.40	129.01	121.02
3	1	1048	MET	N-CA-C	5.40	119.03	112.23
3	1	1218	ILE	CA-C-O	-5.40	115.13	120.85
7	O	1202	ASN	N-CA-CB	5.40	118.59	110.65
7	O	1210	LYS	CA-C-N	5.40	130.17	122.72
7	O	1210	LYS	C-N-CA	5.40	130.17	122.72
9	T	204	GLU	N-CA-C	5.40	116.85	111.07
9	T	273	VAL	CA-CB-CG1	-5.40	101.22	110.40
2	Y	897	ILE	CA-C-O	-5.40	115.34	120.95
3	Z	1150	LYS	CA-C-O	-5.40	113.10	118.34
5	E	510	VAL	CA-C-O	-5.40	114.79	120.57
8	N	585	ASP	N-CA-CB	5.40	118.06	110.12
7	O	1202	ASN	N-CA-C	-5.40	106.70	113.72
7	O	1482	THR	N-CA-C	-5.40	101.43	109.96
8	P	22	MET	N-CA-CB	5.40	118.06	110.12
8	P	1305	ASN	N-CA-C	-5.40	100.38	108.96
3	Z	1345	TRP	CA-C-O	-5.40	114.83	120.55
8	N	382	PHE	CA-C-N	5.40	127.51	120.28
8	N	382	PHE	C-N-CA	5.40	127.51	120.28
8	N	1047	LEU	CA-C-N	5.40	128.05	120.28
8	N	1047	LEU	C-N-CA	5.40	128.05	120.28
8	N	1360	ASN	CB-CG-OD1	-5.40	110.01	120.80
8	N	1589	LEU	CA-C-N	5.40	129.73	120.72
8	N	1589	LEU	C-N-CA	5.40	129.73	120.72
9	R	752	SER	CA-C-O	-5.40	114.00	120.10
2	0	964	ARG	N-CA-C	5.40	117.16	111.28
3	1	802	ILE	N-CA-CB	5.40	117.88	110.54
8	P	1030	SER	CA-C-N	5.40	129.32	120.63
8	P	1030	SER	C-N-CA	5.40	129.32	120.63
9	T	546	ARG	CA-C-N	5.40	130.84	122.26
9	T	546	ARG	C-N-CA	5.40	130.84	122.26
2	Y	131	VAL	N-CA-C	-5.40	99.87	107.75
3	Z	913	ALA	N-CA-C	5.40	117.16	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	756	ASN	CA-C-N	5.40	127.95	120.29
4	A	756	ASN	C-N-CA	5.40	127.95	120.29
5	E	291	GLN	OE1-CD-NE2	-5.40	117.20	122.60
9	Q	356	ASN	CB-CG-ND2	5.40	124.49	116.40
9	R	830	SER	CB-CA-C	-5.40	101.83	110.79
6	I	460	LEU	CA-C-N	5.40	127.95	120.29
6	I	460	LEU	C-N-CA	5.40	127.95	120.29
7	O	857	GLY	CA-C-N	5.40	126.07	120.03
7	O	857	GLY	C-N-CA	5.40	126.07	120.03
2	Y	414	GLY	O-C-N	5.39	127.16	121.77
7	M	776	VAL	CA-C-N	5.39	127.51	120.28
7	M	776	VAL	C-N-CA	5.39	127.51	120.28
3	1	799	ILE	N-CA-C	5.39	116.12	110.62
7	O	1617	SER	N-CA-C	-5.39	105.40	112.41
9	T	830	SER	CB-CA-C	-5.39	101.84	110.79
7	M	643	THR	CA-CB-OG1	5.39	117.69	109.60
3	1	1234	ILE	N-CA-CB	-5.39	104.24	110.55
6	I	370	ASP	CB-CA-C	-5.39	110.34	116.54
7	O	273	VAL	CA-C-N	5.39	127.78	120.44
7	O	273	VAL	C-N-CA	5.39	127.78	120.44
7	O	1316	ASP	CA-C-O	5.39	124.98	119.05
8	P	1162	LEU	N-CA-CB	5.39	118.14	110.16
9	S	702	ILE	CB-CA-C	-5.39	104.95	112.02
2	Y	145	PHE	N-CA-C	-5.39	106.70	113.28
2	Y	922	PHE	CA-CB-CG	-5.39	108.41	113.80
7	O	110	ARG	CA-C-O	5.39	126.26	120.55
9	S	482	LEU	N-CA-CB	5.39	118.04	110.12
9	T	529	LYS	N-CA-C	5.39	119.58	112.89
3	Z	1133	CYS	CA-C-N	5.39	127.50	120.28
3	Z	1133	CYS	C-N-CA	5.39	127.50	120.28
3	Z	1284	PRO	CA-N-CD	-5.39	104.45	112.00
8	N	1045	ALA	CA-C-N	5.39	127.50	120.28
8	N	1045	ALA	C-N-CA	5.39	127.50	120.28
9	Q	707	HIS	CB-CG-CD2	-5.39	124.19	131.20
10	U	352	GLN	CB-CA-C	-5.39	101.61	110.72
2	0	1153	ASN	CA-C-O	5.39	126.52	120.70
2	0	1172	GLU	CA-C-N	5.39	129.72	120.72
2	0	1172	GLU	C-N-CA	5.39	129.72	120.72
6	L	301	HIS	CB-CG-CD2	-5.39	124.19	131.20
8	P	50	ASN	CA-CB-CG	5.39	117.99	112.60
8	P	414	ASN	CA-C-N	5.39	127.45	120.44
8	P	414	ASN	C-N-CA	5.39	127.45	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	798	SER	CA-C-N	5.39	127.50	120.28
8	P	798	SER	C-N-CA	5.39	127.50	120.28
8	N	1008	THR	CA-C-N	5.39	125.33	119.78
8	N	1008	THR	C-N-CA	5.39	125.33	119.78
2	0	1154	ASP	N-CA-CB	5.39	119.60	110.49
6	L	389	ARG	NH1-CZ-NH2	5.39	126.31	119.30
8	P	1266	LYS	O-C-N	5.39	127.83	122.12
9	S	707	HIS	CB-CG-CD2	-5.39	124.19	131.20
2	Y	836	LYS	CA-C-N	5.39	127.50	120.28
2	Y	836	LYS	C-N-CA	5.39	127.50	120.28
7	M	534	SER	CB-CA-C	-5.39	101.38	110.64
8	N	237	SER	CA-C-O	-5.39	115.14	121.07
8	N	594	ILE	O-C-N	5.39	127.50	121.90
8	N	1162	LEU	N-CA-CB	5.39	118.13	110.16
9	Q	51	ARG	N-CA-C	-5.39	105.52	112.68
9	R	273	VAL	CA-CB-CG1	-5.39	101.24	110.40
3	1	152	SER	O-C-N	5.39	127.83	122.12
8	P	1332	ILE	CA-CB-CG1	5.39	119.56	110.40
2	Y	1154	ASP	N-CA-CB	5.38	119.59	110.49
3	Z	1234	ILE	N-CA-CB	-5.38	104.25	110.55
5	E	370	ALA	O-C-N	5.38	128.29	122.15
9	R	203	ASN	CA-C-O	5.38	127.85	121.17
9	R	602	GLY	O-C-N	-5.38	115.43	122.81
7	O	1071	ALA	CA-C-N	5.38	124.72	118.85
7	O	1071	ALA	C-N-CA	5.38	124.72	118.85
8	P	1365	ARG	NE-CZ-NH1	5.38	126.88	121.50
2	Y	1106	ASP	N-CA-CB	5.38	118.51	110.22
8	N	22	MET	N-CA-CB	5.38	118.03	110.12
2	0	836	LYS	CA-C-N	5.38	127.49	120.28
2	0	836	LYS	C-N-CA	5.38	127.49	120.28
7	O	209	ASN	CA-C-N	5.38	127.49	120.28
7	O	209	ASN	C-N-CA	5.38	127.49	120.28
7	O	587	HIS	CB-CG-ND1	5.38	130.77	122.70
2	Y	769	ARG	N-CA-C	5.38	117.23	111.36
2	Y	1383	PHE	CA-CB-CG	-5.38	108.42	113.80
8	N	1332	ILE	CA-CB-CG1	5.38	119.55	110.40
9	Q	341	LEU	CA-C-O	-5.38	114.85	120.55
9	R	324	ASN	N-CA-CB	5.38	119.58	110.49
2	0	1383	PHE	CA-CB-CG	-5.38	108.42	113.80
6	I	295	LYS	O-C-N	5.38	127.82	122.12
4	D	774	ASN	N-CA-CB	5.38	118.50	110.22
7	M	1262	PHE	N-CA-C	-5.38	99.34	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	1433	GLY	CA-C-N	5.38	127.49	120.28
7	M	1433	GLY	C-N-CA	5.38	127.49	120.28
8	P	237	SER	CA-C-N	5.38	127.43	120.44
8	P	237	SER	C-N-CA	5.38	127.43	120.44
8	P	1374	GLN	CA-C-N	5.38	130.23	121.62
8	P	1374	GLN	C-N-CA	5.38	130.23	121.62
9	S	481	THR	N-CA-C	-5.38	105.31	111.07
2	Y	904	LYS	CA-C-N	5.38	128.48	120.31
2	Y	904	LYS	C-N-CA	5.38	128.48	120.31
7	M	249	ASP	CA-C-N	5.38	127.75	120.38
7	M	249	ASP	C-N-CA	5.38	127.75	120.38
7	M	1560	GLY	CA-C-O	-5.38	115.75	121.88
8	N	227	ILE	N-CA-C	-5.38	105.13	110.62
8	N	1127	ASN	OD1-CG-ND2	-5.38	117.22	122.60
3	1	1290	ASN	CA-CB-CG	5.38	117.98	112.60
7	O	1262	PHE	N-CA-C	-5.38	99.34	110.80
9	S	51	ARG	N-CA-C	-5.38	105.53	112.68
2	Y	522	ALA	N-CA-CB	5.38	119.58	110.49
2	Y	591	LYS	CA-C-N	5.38	129.83	122.84
2	Y	591	LYS	C-N-CA	5.38	129.83	122.84
8	N	1309	ARG	CG-CD-NE	-5.38	100.17	112.00
3	1	1141	CYS	CA-C-N	5.38	130.55	121.14
3	1	1141	CYS	C-N-CA	5.38	130.55	121.14
8	P	551	ASN	CA-CB-CG	-5.38	107.22	112.60
8	P	1035	LYS	CB-CG-CD	5.38	123.67	111.30
7	M	760	ILE	N-CA-CB	5.38	120.10	111.23
8	N	767	ILE	CA-CB-CG2	5.38	119.64	110.50
5	K	512	ILE	N-CA-CB	5.38	117.85	110.54
7	O	104	VAL	CA-C-O	5.38	126.86	121.27
8	P	903	LEU	O-C-N	5.38	127.82	122.12
8	P	1125	GLU	CA-C-N	5.38	127.48	120.28
8	P	1125	GLU	C-N-CA	5.38	127.48	120.28
8	P	1589	LEU	CA-C-N	5.38	129.70	120.72
8	P	1589	LEU	C-N-CA	5.38	129.70	120.72
9	S	537	ILE	CA-C-N	5.38	127.75	120.44
9	S	537	ILE	C-N-CA	5.38	127.75	120.44
3	Z	261	SER	N-CA-C	-5.37	107.27	113.88
3	Z	1218	ILE	CA-C-O	-5.37	115.15	120.85
5	B	357	GLY	O-C-N	5.37	128.14	122.28
5	B	449	ASP	CA-C-N	5.37	124.89	119.19
5	B	449	ASP	C-N-CA	5.37	124.89	119.19
7	M	587	HIS	CB-CG-ND1	5.37	130.76	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	1262	PHE	N-CA-CB	5.37	119.57	110.49
8	N	414	ASN	CA-C-N	5.37	127.43	120.44
8	N	414	ASN	C-N-CA	5.37	127.43	120.44
2	0	145	PHE	N-CA-C	-5.37	106.72	113.28
2	0	591	LYS	CA-C-N	5.37	129.83	122.84
2	0	591	LYS	C-N-CA	5.37	129.83	122.84
2	0	897	ILE	CA-C-O	-5.37	115.36	120.95
3	1	1134	LEU	N-CA-C	5.37	117.14	111.28
6	L	283	TYR	CB-CA-C	-5.37	100.98	111.03
7	O	265	ASP	N-CA-C	-5.37	102.53	110.48
8	P	1428	ALA	CA-C-O	5.37	126.51	120.92
3	Z	857	ALA	N-CA-C	5.37	117.13	111.28
7	M	1525	LEU	CA-C-O	-5.37	113.79	119.97
9	R	409	LEU	N-CA-CB	5.37	118.02	110.12
3	1	662	LEU	O-C-N	5.37	127.81	122.12
7	O	163	ASN	CA-C-N	5.37	127.92	120.29
7	O	163	ASN	C-N-CA	5.37	127.92	120.29
7	O	1433	GLY	CA-C-N	5.37	127.48	120.28
7	O	1433	GLY	C-N-CA	5.37	127.48	120.28
2	Y	439	LEU	CA-C-N	5.37	131.96	122.67
2	Y	439	LEU	C-N-CA	5.37	131.96	122.67
3	Z	1290	ASN	CA-CB-CG	5.37	117.97	112.60
9	Q	482	LEU	N-CA-CB	5.37	118.01	110.12
7	O	19	GLU	N-CA-C	-5.37	106.04	112.59
9	T	135	ASP	CA-C-N	5.37	127.48	120.28
9	T	135	ASP	C-N-CA	5.37	127.48	120.28
2	Y	1153	ASN	CA-C-O	5.37	126.50	120.70
3	Z	611	ILE	O-C-N	5.37	129.38	123.10
5	E	463	LEU	CB-CG-CD1	5.37	126.80	110.70
8	N	1158	TYR	CB-CG-CD1	-5.37	112.75	120.80
9	Q	481	THR	N-CA-C	-5.37	105.33	111.07
7	O	1438	VAL	N-CA-CB	5.37	117.18	110.47
8	P	375	TYR	CA-C-N	5.37	127.47	120.28
8	P	375	TYR	C-N-CA	5.37	127.47	120.28
8	P	382	PHE	CA-C-N	5.37	127.47	120.28
8	P	382	PHE	C-N-CA	5.37	127.47	120.28
9	T	284	GLN	N-CA-C	5.37	117.13	111.28
9	T	692	MET	CG-SD-CE	-5.37	89.09	100.90
7	M	160	GLN	CA-C-N	5.37	127.47	120.28
7	M	160	GLN	C-N-CA	5.37	127.47	120.28
8	N	1593	HIS	ND1-CE1-NE2	5.37	113.77	108.40
3	1	857	ALA	N-CA-C	5.37	117.13	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	1597	ARG	CA-C-N	5.37	127.47	120.28
8	P	1597	ARG	C-N-CA	5.37	127.47	120.28
2	Y	264	PRO	CA-C-O	-5.37	115.22	121.34
3	Z	1001	ARG	CA-C-N	5.37	127.81	120.46
3	Z	1001	ARG	C-N-CA	5.37	127.81	120.46
6	F	295	LYS	N-CA-C	5.37	117.21	111.36
8	N	1151	ASN	N-CA-C	-5.37	103.90	110.61
9	Q	397	HIS	CA-CB-CG	-5.37	108.43	113.80
7	M	265	ASP	N-CA-C	-5.36	102.54	110.48
7	M	772	ASN	CA-CB-CG	-5.36	107.24	112.60
9	Q	205	ASN	CA-C-N	5.36	128.46	120.31
9	Q	205	ASN	C-N-CA	5.36	128.46	120.31
5	K	385	GLN	O-C-N	5.36	127.88	122.09
8	P	655	VAL	N-CA-CB	5.36	116.83	110.55
8	P	694	ILE	CA-C-N	5.36	127.78	120.54
8	P	694	ILE	C-N-CA	5.36	127.78	120.54
9	T	835	ILE	N-CA-CB	5.36	119.52	110.56
8	N	1094	SER	CA-C-N	5.36	127.46	120.28
8	N	1094	SER	C-N-CA	5.36	127.46	120.28
8	N	1551	THR	CA-C-O	-5.36	114.87	120.55
7	O	160	GLN	CA-C-N	5.36	127.47	120.28
7	O	160	GLN	C-N-CA	5.36	127.47	120.28
8	P	1592	GLU	N-CA-CB	5.36	118.00	110.12
2	0	131	VAL	N-CA-C	-5.36	99.92	107.75
2	0	1303	SER	O-C-N	-5.36	116.68	122.79
5	H	449	ASP	CA-C-N	5.36	124.87	119.19
5	H	449	ASP	C-N-CA	5.36	124.87	119.19
7	O	1052	LEU	CB-CA-C	-5.36	101.89	110.79
7	O	1560	GLY	CA-C-O	-5.36	115.77	121.88
8	P	890	LEU	CA-C-N	5.36	126.21	120.47
8	P	890	LEU	C-N-CA	5.36	126.21	120.47
2	Y	1259	ALA	CA-C-N	5.36	127.46	120.28
2	Y	1259	ALA	C-N-CA	5.36	127.46	120.28
5	B	387	GLN	CA-C-N	5.36	127.46	120.28
5	B	387	GLN	C-N-CA	5.36	127.46	120.28
8	N	1002	SER	O-C-N	5.36	128.49	122.22
9	R	821	GLN	OE1-CD-NE2	-5.36	117.24	122.60
10	W	269	HIS	CA-C-O	5.36	125.97	119.38
7	M	19	GLU	N-CA-C	-5.36	106.05	112.59
7	M	518	ASN	OD1-CG-ND2	5.36	127.96	122.60
7	M	1180	TYR	CA-C-N	5.36	127.80	120.46
7	M	1180	TYR	C-N-CA	5.36	127.80	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	903	LEU	O-C-N	5.36	127.80	122.12
8	N	1281	MET	O-C-N	-5.36	116.55	122.07
9	R	546	ARG	CA-C-N	5.36	130.78	122.26
9	R	546	ARG	C-N-CA	5.36	130.78	122.26
3	1	1284	PRO	CA-C-N	5.36	128.08	120.53
3	1	1284	PRO	C-N-CA	5.36	128.08	120.53
7	O	264	LYS	CB-CG-CD	5.36	123.62	111.30
7	O	325	PHE	CB-CA-C	-5.36	102.47	110.88
8	P	388	ASN	CB-CA-C	-5.36	101.57	110.68
8	P	732	LYS	N-CA-C	5.36	117.87	111.71
8	N	780	HIS	CG-CD2-NE2	5.36	112.56	107.20
8	N	1035	LYS	CB-CG-CD	5.36	123.62	111.30
9	R	476	ASN	CA-CB-CG	-5.36	107.24	112.60
10	U	269	HIS	CA-C-O	5.36	125.97	119.38
2	0	904	LYS	CA-CB-CG	-5.36	103.39	114.10
3	1	1123	PHE	CA-C-N	5.36	128.95	121.24
3	1	1123	PHE	C-N-CA	5.36	128.95	121.24
3	1	1345	TRP	CA-C-O	-5.36	114.87	120.55
5	H	357	GLY	O-C-N	5.36	128.12	122.28
11	X	362	SER	O-C-N	5.36	126.41	121.80
8	N	1236	LEU	N-CA-CB	5.35	117.99	110.12
8	N	1494	ILE	O-C-N	-5.35	116.68	121.87
3	1	811	LEU	CA-C-N	5.35	128.02	120.42
3	1	811	LEU	C-N-CA	5.35	128.02	120.42
4	G	710	PHE	CA-C-N	5.35	127.45	120.28
4	G	710	PHE	C-N-CA	5.35	127.45	120.28
7	O	1672	MET	N-CA-C	5.35	116.80	111.07
8	P	767	ILE	CA-CB-CG2	5.35	119.60	110.50
3	Z	811	LEU	CA-C-N	5.35	128.02	120.42
3	Z	811	LEU	C-N-CA	5.35	128.02	120.42
7	M	104	VAL	CA-C-O	5.35	126.84	121.27
7	M	1482	THR	N-CA-C	-5.35	101.50	109.96
8	N	694	ILE	CA-C-N	5.35	127.77	120.54
8	N	694	ILE	C-N-CA	5.35	127.77	120.54
8	N	1472	SER	CA-C-O	-5.35	114.45	119.80
9	Q	271	VAL	O-C-N	5.35	127.16	121.91
2	0	414	GLY	O-C-N	5.35	127.12	121.77
3	1	1150	LYS	CA-C-O	-5.35	113.15	118.34
5	H	401	ALA	CB-CA-C	-5.35	101.91	110.79
7	O	1262	PHE	N-CA-CB	5.35	119.54	110.49
9	R	608	GLN	OE1-CD-NE2	5.35	127.95	122.60
3	1	139	GLN	CA-C-N	5.35	128.83	120.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1	139	GLN	C-N-CA	5.35	128.83	120.75
4	G	655	PHE	N-CA-C	-5.35	105.34	111.07
9	S	271	VAL	O-C-N	5.35	127.15	121.91
2	Y	1141	LEU	CA-C-O	-5.35	114.88	120.55
3	Z	1123	PHE	CA-C-N	5.35	128.94	121.24
3	Z	1123	PHE	C-N-CA	5.35	128.94	121.24
5	B	373	ARG	CA-C-N	5.35	127.79	120.46
5	B	373	ARG	C-N-CA	5.35	127.79	120.46
8	N	729	HIS	CE1-NE2-CD2	-5.35	103.65	109.00
3	1	396	SER	N-CA-CB	5.35	116.50	110.03
3	1	1270	ILE	N-CA-C	-5.35	105.32	110.72
4	J	652	ALA	N-CA-CB	5.35	117.77	110.01
7	O	149	LYS	O-C-N	5.35	128.48	122.22
9	T	739	MET	CB-CA-C	5.35	119.67	110.79
2	Y	189	LYS	CA-C-O	-5.35	114.86	120.80
2	Y	904	LYS	CA-CB-CG	-5.35	103.41	114.10
5	E	385	GLN	O-C-N	5.35	127.86	122.09
2	0	522	ALA	N-CA-CB	5.35	119.53	110.49
3	1	909	HIS	CE1-NE2-CD2	-5.35	103.65	109.00
7	O	439	LEU	O-C-N	-5.35	116.45	122.12
7	O	1110	MET	N-CA-CB	5.35	118.57	110.28
8	P	1338	GLU	N-CA-CB	5.35	117.77	110.01
9	S	540	ASN	N-CA-C	5.35	117.19	111.36
9	T	607	ARG	NE-CZ-NH2	-5.35	114.39	119.20
8	N	1071	LYS	N-CA-C	5.35	117.11	111.28
3	1	414	MET	CA-C-N	5.35	127.44	120.28
3	1	414	MET	C-N-CA	5.35	127.44	120.28
7	O	1180	TYR	CA-C-N	5.35	127.78	120.46
7	O	1180	TYR	C-N-CA	5.35	127.78	120.46
8	P	1236	LEU	N-CA-CB	5.35	117.98	110.12
2	Y	481	LEU	CA-C-O	-5.34	115.20	120.70
3	Z	909	HIS	CE1-NE2-CD2	-5.34	103.66	109.00
5	E	437	TRP	CA-C-N	5.34	127.44	120.28
5	E	437	TRP	C-N-CA	5.34	127.44	120.28
8	N	1592	GLU	N-CA-CB	5.34	117.98	110.12
7	O	1562	ASP	N-CA-C	5.34	117.22	110.33
8	P	237	SER	CA-C-O	-5.34	115.19	121.07
8	P	490	ASP	N-CA-CB	5.34	118.23	109.95
8	P	729	HIS	CE1-NE2-CD2	-5.34	103.66	109.00
2	Y	1164	TRP	O-C-N	5.34	128.24	122.15
7	M	163	ASN	N-CA-CB	5.34	117.97	110.12
7	M	425	ASP	CA-CB-CG	5.34	117.94	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	388	ASN	CB-CA-C	-5.34	101.60	110.68
3	1	1221	ARG	CA-C-O	5.34	126.21	120.55
7	O	496	SER	N-CA-C	5.34	117.85	111.71
8	P	1042	SER	CA-C-O	-5.34	114.76	120.42
8	P	1158	TYR	CB-CG-CD1	-5.34	112.79	120.80
8	P	1309	ARG	CG-CD-NE	-5.34	100.25	112.00
3	Z	1068	ARG	CA-C-N	5.34	127.44	120.28
3	Z	1068	ARG	C-N-CA	5.34	127.44	120.28
5	E	512	ILE	N-CA-CB	5.34	117.80	110.54
7	M	1052	LEU	CB-CA-C	-5.34	101.92	110.79
4	G	796	ILE	CA-CB-CG2	-5.34	101.42	110.50
5	K	291	GLN	OE1-CD-NE2	-5.34	117.26	122.60
9	T	53	VAL	CB-CA-C	-5.34	105.05	112.04
9	T	409	LEU	N-CA-CB	5.34	117.97	110.12
6	C	394	ILE	CA-C-N	-5.34	112.20	120.31
6	C	394	ILE	C-N-CA	-5.34	112.20	120.31
7	M	1316	ASP	CA-C-O	5.34	124.92	119.05
9	R	309	ILE	CA-C-N	5.34	127.38	120.44
9	R	309	ILE	C-N-CA	5.34	127.38	120.44
11	V	347	TYR	N-CA-C	-5.34	98.01	109.81
3	1	1124	ASP	CA-C-O	5.34	126.77	120.58
2	Y	1314	PRO	CB-CA-C	-5.34	103.89	111.68
7	M	264	LYS	CB-CG-CD	5.34	123.57	111.30
7	M	578	LYS	N-CA-C	5.34	117.18	111.36
7	M	1438	VAL	N-CA-CB	5.34	117.14	110.47
8	N	146	SER	CA-C-N	5.34	127.38	120.44
8	N	146	SER	C-N-CA	5.34	127.38	120.44
8	N	375	TYR	CA-C-N	5.34	127.43	120.28
8	N	375	TYR	C-N-CA	5.34	127.43	120.28
8	N	1298	ASN	N-CA-C	5.34	117.18	111.36
8	N	1381	ASN	CA-CB-CG	-5.34	107.26	112.60
3	1	1228	PHE	CA-C-O	-5.34	114.56	120.38
7	O	125	HIS	ND1-CE1-NE2	5.34	113.74	108.40
8	P	1281	MET	O-C-N	-5.34	116.57	122.07
9	T	441	MET	N-CA-C	5.34	117.85	111.71
3	Z	242	HIS	ND1-CE1-NE2	5.33	113.73	108.40
3	Z	640	ALA	N-CA-CB	5.33	117.75	110.01
7	M	357	PRO	N-CA-C	5.33	119.59	111.11
8	P	667	ASN	CA-CB-CG	-5.33	107.27	112.60
8	P	1002	SER	O-C-N	5.33	128.46	122.22
8	P	1260	TYR	N-CA-CB	5.33	117.75	110.01
6	C	400	GLY	CA-C-N	5.33	129.05	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	400	GLY	C-N-CA	5.33	129.05	120.30
7	M	263	LEU	N-CA-CB	5.33	119.24	110.39
7	O	733	LYS	CA-C-O	5.33	127.25	121.06
7	O	1295	ALA	O-C-N	5.33	127.77	122.12
8	P	942	PRO	N-CD-CG	5.33	111.20	103.20
9	T	777	ILE	N-CA-C	5.33	116.06	110.62
7	M	175	PHE	CA-C-N	5.33	127.37	120.44
7	M	175	PHE	C-N-CA	5.33	127.37	120.44
7	M	542	ASN	CA-CB-CG	-5.33	107.27	112.60
8	N	242	TYR	O-C-N	-5.33	116.58	122.07
8	N	1266	LYS	O-C-N	5.33	127.77	122.12
9	Q	414	LEU	N-CA-C	5.33	117.17	111.36
9	Q	738	GLN	CG-CD-NE2	5.33	124.40	116.40
9	R	739	MET	CB-CA-C	5.33	119.64	110.79
10	U	325	SER	CA-C-O	-5.33	114.90	120.55
2	0	480	GLU	CA-C-N	5.33	127.69	120.44
2	0	480	GLU	C-N-CA	5.33	127.69	120.44
2	0	837	ASP	O-C-N	-5.33	116.47	122.12
2	0	1002	LEU	N-CA-CB	5.33	117.96	110.12
2	0	1147	GLU	N-CA-CB	-5.33	102.02	110.28
3	1	242	HIS	ND1-CE1-NE2	5.33	113.73	108.40
5	K	510	VAL	CA-C-O	-5.33	114.87	120.57
7	O	175	PHE	CA-C-N	5.33	127.37	120.44
7	O	175	PHE	C-N-CA	5.33	127.37	120.44
8	P	731	SER	CA-C-O	5.33	126.83	120.70
9	S	205	ASN	CA-C-N	5.33	128.41	120.31
9	S	205	ASN	C-N-CA	5.33	128.41	120.31
9	T	414	LEU	CA-C-N	5.33	127.99	120.42
9	T	414	LEU	C-N-CA	5.33	127.99	120.42
10	W	325	SER	CA-C-O	-5.33	114.90	120.55
8	N	418	ASN	CA-C-N	5.33	127.42	120.28
8	N	418	ASN	C-N-CA	5.33	127.42	120.28
8	N	1641	SER	O-C-N	5.33	127.77	122.12
3	1	261	SER	N-CA-C	-5.33	107.32	113.88
3	1	1035	PRO	CA-C-N	5.33	127.86	120.29
3	1	1035	PRO	C-N-CA	5.33	127.86	120.29
3	Z	1270	ILE	N-CA-C	-5.33	105.34	110.72
8	N	912	TRP	CG-CD1-NE1	-5.33	103.27	110.20
9	Q	424	ASN	N-CA-C	-5.33	100.62	108.99
2	0	1199	ILE	CA-C-O	-5.33	115.52	121.17
4	G	796	ILE	CA-CB-CG1	5.33	119.46	110.40
7	O	357	PRO	N-CA-C	5.33	119.58	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	925	HIS	ND1-CE1-NE2	5.33	113.73	108.40
8	P	819	THR	CA-C-N	5.33	127.42	120.28
8	P	819	THR	C-N-CA	5.33	127.42	120.28
8	P	1096	ILE	CA-CB-CG2	5.33	119.56	110.50
8	P	1175	GLU	CA-CB-CG	-5.33	103.44	114.10
2	Y	103	LEU	CA-C-N	5.33	127.36	120.44
2	Y	103	LEU	C-N-CA	5.33	127.36	120.44
7	M	1349	PHE	CB-CA-C	-5.33	101.80	110.85
2	0	462	LEU	CA-C-O	5.33	126.96	120.62
6	I	400	GLY	CA-C-N	5.33	129.04	120.30
6	I	400	GLY	C-N-CA	5.33	129.04	120.30
8	P	1494	ILE	O-C-N	-5.33	116.70	121.87
2	Y	113	HIS	CB-CG-CD2	-5.33	124.28	131.20
2	Y	486	GLN	N-CA-CB	5.33	117.95	110.12
6	F	283	TYR	CB-CA-C	-5.33	101.07	111.03
7	M	303	LYS	O-C-N	-5.33	115.95	122.34
7	M	925	HIS	ND1-CE1-NE2	5.33	113.73	108.40
7	M	1011	SER	CA-C-N	5.33	127.36	120.44
7	M	1011	SER	C-N-CA	5.33	127.36	120.44
7	M	1295	ALA	O-C-N	5.33	127.77	122.12
8	N	527	LYS	O-C-N	5.33	129.64	123.30
8	N	1175	GLU	CA-CB-CG	-5.33	103.45	114.10
2	0	439	LEU	CA-C-N	5.33	131.88	122.67
2	0	439	LEU	C-N-CA	5.33	131.88	122.67
2	0	1259	ALA	CA-C-N	5.33	127.42	120.28
2	0	1259	ALA	C-N-CA	5.33	127.42	120.28
2	0	1416	PHE	N-CA-C	5.33	117.17	111.36
5	K	463	LEU	CB-CG-CD1	5.33	126.67	110.70
7	O	833	THR	CA-C-N	5.33	127.73	120.54
7	O	833	THR	C-N-CA	5.33	127.73	120.54
2	Y	1325	PHE	CB-CG-CD1	5.32	129.75	120.70
3	Z	715	LEU	CB-CA-C	-5.32	102.52	110.88
8	N	1597	ARG	CA-C-N	5.32	127.41	120.28
8	N	1597	ARG	C-N-CA	5.32	127.41	120.28
2	0	392	SER	N-CA-C	-5.32	100.72	109.40
2	0	481	LEU	CA-C-O	-5.32	115.22	120.70
2	0	1318	HIS	CA-CB-CG	-5.32	108.48	113.80
7	O	1167	LYS	CA-C-O	5.32	126.18	120.70
9	T	324	ASN	N-CA-CB	5.32	119.49	110.49
3	Z	767	ASN	CA-C-N	5.32	127.37	120.56
3	Z	767	ASN	C-N-CA	5.32	127.37	120.56
9	Q	540	ASN	N-CA-C	5.32	117.16	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1	1357	LEU	O-C-N	5.32	127.76	122.12
3	Z	1124	ASP	CA-C-O	5.32	126.75	120.58
5	B	382	LYS	N-CA-C	5.32	117.08	111.28
7	M	33	GLN	CB-CG-CD	-5.32	103.55	112.60
7	M	733	LYS	CA-C-O	5.32	127.23	121.06
8	N	1269	GLY	CA-C-N	5.32	128.40	120.95
8	N	1269	GLY	C-N-CA	5.32	128.40	120.95
8	N	1338	GLU	N-CA-CB	5.32	117.73	110.01
3	1	882	ASP	N-CA-CB	-5.32	102.29	110.16
7	O	782	LYS	N-CA-CB	5.32	118.04	110.16
8	P	585	ASP	N-CA-CB	5.32	118.04	110.06
9	S	433	GLU	O-C-N	5.32	128.44	122.22
2	Y	1172	GLU	CA-C-N	5.32	129.60	120.72
2	Y	1172	GLU	C-N-CA	5.32	129.60	120.72
7	M	1634	LYS	CA-C-N	5.32	127.41	120.28
7	M	1634	LYS	C-N-CA	5.32	127.41	120.28
8	N	237	SER	CA-C-N	5.32	127.36	120.44
8	N	237	SER	C-N-CA	5.32	127.36	120.44
8	N	490	ASP	N-CA-CB	5.32	118.19	109.95
8	P	1203	THR	N-CA-CB	5.32	118.03	110.16
2	Y	1002	LEU	N-CA-CB	5.32	117.94	110.12
3	Z	824	SER	O-C-N	5.32	127.55	122.07
4	D	652	ALA	N-CA-CB	5.32	117.72	110.01
2	0	1314	PRO	CB-CA-C	-5.32	103.92	111.68
3	1	715	LEU	CB-CA-C	-5.32	102.53	110.88
5	K	437	TRP	CA-C-N	5.32	127.40	120.28
5	K	437	TRP	C-N-CA	5.32	127.40	120.28
5	K	529	LYS	CA-C-O	-5.32	113.86	119.97
6	L	452	ASP	CA-CB-CG	5.32	117.92	112.60
8	P	211	GLN	N-CA-C	5.32	117.16	111.36
8	P	705	TYR	CA-C-N	5.32	127.41	120.28
8	P	705	TYR	C-N-CA	5.32	127.41	120.28
3	Z	918	MET	CB-CA-C	-5.32	110.43	116.54
7	M	1287	THR	CA-C-N	5.32	127.35	120.44
7	M	1287	THR	C-N-CA	5.32	127.35	120.44
8	N	1203	THR	N-CA-CB	5.32	118.03	110.16
9	Q	615	ASP	N-CA-CB	5.32	119.30	110.47
9	R	701	GLY	CA-C-N	5.32	129.05	120.55
9	R	701	GLY	C-N-CA	5.32	129.05	120.55
2	0	164	PHE	O-C-N	-5.32	116.48	122.12
4	G	752	ASP	CA-C-O	-5.32	112.91	120.51
7	O	760	ILE	N-CA-CB	5.32	120.00	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	T	309	ILE	CA-C-N	5.32	127.35	120.44
9	T	309	ILE	C-N-CA	5.32	127.35	120.44
9	T	476	ASN	CA-CB-CG	-5.32	107.28	112.60
7	M	302	PHE	CA-CB-CG	5.31	119.11	113.80
4	J	644	TRP	CB-CG-CD1	5.31	134.87	126.90
4	A	699	TYR	CA-C-O	-5.31	113.67	120.31
7	M	110	ARG	CA-C-O	5.31	126.18	120.55
7	M	627	VAL	CA-C-O	-5.31	115.22	120.85
7	M	1258	HIS	CG-CD2-NE2	5.31	112.51	107.20
8	N	731	SER	CA-C-O	5.31	126.81	120.70
8	N	942	PRO	N-CD-CG	5.31	111.17	103.20
9	R	660	LEU	CA-C-N	5.31	127.83	120.29
9	R	660	LEU	C-N-CA	5.31	127.83	120.29
2	0	386	SER	CB-CA-C	5.31	119.09	109.37
7	O	263	LEU	N-CA-CB	5.31	119.21	110.39
7	O	627	VAL	CA-C-O	-5.31	115.22	120.85
7	O	1163	LEU	N-CA-C	5.31	116.75	111.07
7	O	1525	LEU	CA-C-O	-5.31	113.86	119.97
7	M	1357	ALA	CA-C-N	5.31	127.25	120.56
7	M	1357	ALA	C-N-CA	5.31	127.25	120.56
8	N	1163	LEU	CA-C-N	5.31	127.40	120.28
8	N	1163	LEU	C-N-CA	5.31	127.40	120.28
7	O	1204	GLY	N-CA-C	5.31	119.37	112.25
2	Y	480	GLU	CA-C-N	5.31	127.66	120.44
2	Y	480	GLU	C-N-CA	5.31	127.66	120.44
2	Y	1245	SER	CA-C-N	5.31	127.61	120.50
2	Y	1245	SER	C-N-CA	5.31	127.61	120.50
3	Z	1357	LEU	O-C-N	5.31	127.75	122.12
7	M	149	LYS	O-C-N	5.31	128.43	122.22
7	M	325	PHE	CB-CA-C	-5.31	102.54	110.88
9	R	252	GLN	CA-C-N	5.31	127.39	120.28
9	R	252	GLN	C-N-CA	5.31	127.39	120.28
2	0	435	PHE	CA-CB-CG	5.31	119.11	113.80
2	0	769	ARG	N-CA-C	5.31	117.15	111.36
2	0	904	LYS	CA-C-N	5.31	128.38	120.31
2	0	904	LYS	C-N-CA	5.31	128.38	120.31
2	0	1169	ASN	O-C-N	-5.31	116.21	122.58
3	1	1068	ARG	CA-C-N	5.31	127.39	120.28
3	1	1068	ARG	C-N-CA	5.31	127.39	120.28
7	O	234	THR	CA-C-N	5.31	124.94	119.05
7	O	234	THR	C-N-CA	5.31	124.94	119.05
7	O	1176	GLU	N-CA-CB	5.31	117.71	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	391	HIS	ND1-CE1-NE2	5.31	113.71	108.40
11	X	347	TYR	N-CA-C	-5.31	98.08	109.81
2	Y	164	PHE	O-C-N	-5.31	116.49	122.12
2	Y	195	ILE	N-CA-C	5.31	116.67	110.62
2	Y	1169	ASN	O-C-N	-5.31	116.21	122.58
3	Z	396	SER	N-CA-CB	5.31	116.45	110.03
3	Z	1221	ARG	CA-C-O	5.31	126.17	120.55
8	N	364	THR	CA-C-O	-5.31	115.25	120.82
2	0	301	SER	O-C-N	5.31	130.13	123.23
3	1	619	GLU	N-CA-CB	5.31	118.02	110.16
9	T	651	ASP	CA-CB-CG	5.31	117.91	112.60
4	A	796	ILE	CA-CB-CG1	5.31	119.42	110.40
7	M	1562	ASP	N-CA-C	5.31	117.17	110.33
9	R	441	MET	N-CA-C	5.31	117.81	111.71
3	1	824	SER	O-C-N	5.31	127.53	122.07
2	Y	392	SER	N-CA-C	-5.30	100.75	109.40
2	Y	837	ASP	O-C-N	-5.30	116.50	122.12
2	Y	911	ASN	O-C-N	5.30	128.20	122.15
3	Z	813	ASN	CA-C-N	5.30	127.73	120.46
3	Z	813	ASN	C-N-CA	5.30	127.73	120.46
7	M	439	LEU	O-C-N	-5.30	116.50	122.12
8	N	419	ASP	O-C-N	5.30	127.74	122.12
2	0	103	LEU	CA-C-N	5.30	127.34	120.44
2	0	103	LEU	C-N-CA	5.30	127.34	120.44
7	O	772	ASN	CA-CB-CG	-5.30	107.30	112.60
7	O	1349	PHE	CB-CA-C	-5.30	101.83	110.85
8	P	1071	LYS	N-CA-C	5.30	117.06	111.28
8	P	1472	SER	CA-C-O	-5.30	114.50	119.80
9	S	397	HIS	CA-CB-CG	-5.30	108.50	113.80
5	B	459	LEU	CA-C-N	5.30	127.82	120.29
5	B	459	LEU	C-N-CA	5.30	127.82	120.29
7	M	1566	ASP	CA-CB-CG	5.30	117.90	112.60
9	Q	391	HIS	ND1-CE1-NE2	5.30	113.70	108.40
2	0	1141	LEU	CA-C-O	-5.30	114.93	120.55
7	O	1011	SER	CA-C-N	5.30	127.33	120.44
7	O	1011	SER	C-N-CA	5.30	127.33	120.44
9	S	237	GLU	O-C-N	5.30	127.74	122.12
3	Z	1284	PRO	CA-C-N	5.30	128.01	120.53
3	Z	1284	PRO	C-N-CA	5.30	128.01	120.53
4	A	655	PHE	N-CA-C	-5.30	105.40	111.07
4	D	722	LEU	O-C-N	5.30	127.74	122.12
9	Q	156	LEU	O-C-N	-5.30	116.61	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	0	698	ASN	CB-CG-ND2	5.30	124.35	116.40
5	K	302	ASN	CB-CG-ND2	-5.30	108.45	116.40
9	T	328	ILE	N-CA-C	-5.30	100.69	108.11
9	T	608	GLN	OE1-CD-NE2	5.30	127.90	122.60
4	D	644	TRP	CB-CG-CD1	5.30	134.85	126.90
7	M	784	ILE	CB-CA-C	-5.30	105.19	111.97
7	M	1163	LEU	N-CA-C	5.30	116.74	111.07
8	N	19	ALA	CA-C-N	5.30	127.82	120.29
8	N	19	ALA	C-N-CA	5.30	127.82	120.29
8	N	408	PRO	O-C-N	5.30	129.72	122.99
8	N	667	ASN	CA-CB-CG	-5.30	107.30	112.60
10	U	264	ASN	CA-CB-CG	-5.30	107.30	112.60
3	1	1388	HIS	CA-CB-CG	-5.30	108.50	113.80
8	P	71	LEU	N-CA-C	-5.30	105.58	111.36
8	P	1163	LEU	CA-C-N	5.30	127.38	120.28
8	P	1163	LEU	C-N-CA	5.30	127.38	120.28
2	Y	947	LEU	N-CA-C	-5.30	101.83	110.20
8	N	1096	ILE	CA-CB-CG2	5.30	119.51	110.50
3	1	856	ASN	N-CA-C	-5.30	103.40	110.55
8	P	364	THR	CA-C-O	-5.30	115.26	120.82
9	S	424	ASN	N-CA-C	-5.30	100.67	108.99
9	T	252	GLN	CA-C-N	5.30	127.38	120.28
9	T	252	GLN	C-N-CA	5.30	127.38	120.28
7	M	1045	GLY	O-C-N	-5.30	116.69	122.41
8	N	705	TYR	CA-C-N	5.30	127.38	120.28
8	N	705	TYR	C-N-CA	5.30	127.38	120.28
9	R	835	ILE	N-CA-CB	5.30	119.40	110.56
5	K	329	HIS	CA-C-N	5.30	131.31	122.57
5	K	329	HIS	C-N-CA	5.30	131.31	122.57
7	O	542	ASN	CA-CB-CG	-5.30	107.30	112.60
7	O	1085	LYS	CB-CG-CD	5.30	123.48	111.30
8	P	418	ASN	CA-C-N	5.30	127.38	120.28
8	P	418	ASN	C-N-CA	5.30	127.38	120.28
3	Z	554	TYR	N-CA-C	-5.29	100.54	108.96
3	Z	630	PRO	N-CA-CB	5.29	109.15	103.33
4	D	726	VAL	CA-CB-CG1	-5.29	101.40	110.40
8	N	819	THR	CA-C-N	5.29	127.38	120.28
8	N	819	THR	C-N-CA	5.29	127.38	120.28
3	1	1317	SER	CA-C-N	5.29	127.38	120.28
3	1	1317	SER	C-N-CA	5.29	127.38	120.28
7	O	1357	ALA	CA-C-N	5.29	127.23	120.56
7	O	1357	ALA	C-N-CA	5.29	127.23	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	763	GLN	N-CA-CB	5.29	118.49	110.28
2	Y	1199	ILE	CA-C-O	-5.29	115.56	121.17
5	B	401	ALA	CB-CA-C	-5.29	102.00	110.79
2	0	1245	SER	CA-C-N	5.29	127.59	120.50
2	0	1245	SER	C-N-CA	5.29	127.59	120.50
3	1	1157	SER	CA-C-O	-5.29	114.94	120.55
4	G	699	TYR	CA-C-O	-5.29	113.69	120.31
6	L	329	ASP	CA-CB-CG	5.29	117.89	112.60
7	O	425	ASP	CA-CB-CG	5.29	117.89	112.60
7	O	1566	ASP	CA-CB-CG	5.29	117.89	112.60
9	T	356	ASN	CA-CB-CG	-5.29	107.31	112.60
4	D	685	MET	N-CA-C	5.29	117.05	111.28
5	E	302	ASN	CB-CG-ND2	-5.29	108.46	116.40
7	M	1450	GLY	N-CA-C	5.29	121.43	111.80
7	O	578	LYS	N-CA-C	5.29	117.13	111.36
3	Z	1155	GLN	O-C-N	5.29	127.73	122.12
3	Z	1388	HIS	CA-CB-CG	-5.29	108.51	113.80
4	A	752	ASP	CA-C-O	-5.29	112.95	120.51
3	Z	856	ASN	N-CA-C	-5.29	103.41	110.55
3	Z	882	ASP	N-CA-CB	-5.29	102.33	110.16
8	N	1111	HIS	CA-C-O	5.29	126.08	120.10
3	1	767	ASN	CA-C-N	5.29	127.33	120.56
3	1	767	ASN	C-N-CA	5.29	127.33	120.56
5	K	379	ILE	O-C-N	5.29	127.28	121.83
4	A	767	VAL	CA-C-O	5.29	125.96	120.25
7	M	1655	SER	CA-C-O	5.29	127.55	121.47
9	Q	433	GLU	O-C-N	5.29	128.41	122.22
3	1	640	ALA	N-CA-CB	5.29	117.68	110.01
8	P	1381	ASN	CA-CB-CG	-5.29	107.31	112.60
9	S	414	LEU	N-CA-C	5.29	117.12	111.36
2	Y	301	SER	O-C-N	5.29	130.10	123.23
6	C	325	TYR	CB-CG-CD1	5.29	128.73	120.80
4	D	674	GLU	N-CA-CB	5.29	117.81	109.94
7	M	1085	LYS	CB-CG-CD	5.29	123.46	111.30
9	R	356	ASN	CA-CB-CG	-5.29	107.31	112.60
9	R	607	ARG	NE-CZ-NH2	-5.29	114.44	119.20
5	H	291	GLN	CG-CD-NE2	-5.29	108.47	116.40
7	O	302	PHE	CA-CB-CG	5.29	119.09	113.80
7	O	1524	PHE	N-CA-CB	5.29	117.67	110.01
8	P	1330	GLU	CA-C-N	5.29	129.67	120.68
8	P	1330	GLU	C-N-CA	5.29	129.67	120.68
9	S	615	ASP	N-CA-CB	5.29	119.25	110.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	T	751	LEU	O-C-N	5.29	128.77	122.27
2	Y	950	LYS	O-C-N	5.28	127.72	122.12
3	Z	619	GLU	N-CA-CB	5.28	117.98	110.16
5	B	291	GLN	CG-CD-NE2	-5.28	108.47	116.40
9	R	53	VAL	CB-CA-C	-5.28	105.12	112.04
3	1	554	TYR	N-CA-C	-5.28	100.56	108.96
7	O	1045	GLY	O-C-N	-5.28	116.70	122.41
8	P	242	TYR	O-C-N	-5.28	116.63	122.07
9	T	209	ARG	NE-CZ-NH2	-5.28	114.45	119.20
7	M	1176	GLU	N-CA-CB	5.28	117.67	110.01
2	0	655	PRO	O-C-N	5.28	128.56	122.17
2	0	1325	PHE	CB-CG-CD1	5.28	129.68	120.70
9	T	701	GLY	CA-C-N	5.28	129.00	120.55
9	T	701	GLY	C-N-CA	5.28	129.00	120.55
3	Z	139	GLN	CA-C-N	5.28	128.72	120.75
3	Z	139	GLN	C-N-CA	5.28	128.72	120.75
3	Z	1237	GLU	N-CA-C	-5.28	105.60	111.36
7	M	782	LYS	N-CA-CB	5.28	117.98	110.16
8	N	763	GLN	N-CA-CB	5.28	118.46	110.28
8	N	1443	THR	CA-C-O	-5.28	114.95	120.55
9	Q	739	MET	CA-C-N	5.28	127.36	120.28
9	Q	739	MET	C-N-CA	5.28	127.36	120.28
3	1	1003	ASN	CA-C-O	5.28	126.15	120.55
3	1	1008	ILE	N-CA-CB	5.28	117.72	110.54
3	1	1380	GLN	CA-C-N	5.28	127.79	120.29
3	1	1380	GLN	C-N-CA	5.28	127.79	120.29
5	H	382	LYS	N-CA-C	5.28	117.04	111.28
8	P	33	ASP	N-CA-C	-5.28	101.09	109.96
8	P	912	TRP	CG-CD1-NE1	-5.28	103.33	110.20
8	P	941	SER	N-CA-C	5.28	117.21	109.71
2	Y	1137	ASP	CA-C-N	5.28	127.79	120.29
2	Y	1137	ASP	C-N-CA	5.28	127.79	120.29
3	Z	889	LYS	CA-C-O	5.28	126.02	120.42
2	0	114	LYS	CA-C-N	5.28	127.88	120.28
2	0	114	LYS	C-N-CA	5.28	127.88	120.28
2	0	971	ILE	CB-CA-C	-5.28	105.21	111.97
3	1	1239	ASN	CB-CA-C	-5.28	102.59	110.88
6	I	325	TYR	CB-CG-CD1	5.28	128.72	120.80
9	T	780	SER	CA-CB-OG	5.28	121.66	111.10
2	Y	435	PHE	CA-CB-CG	5.28	119.08	113.80
2	Y	1297	LEU	N-CA-CB	5.28	118.43	110.30
3	Z	421	PHE	CG-CD2-CE2	5.28	129.67	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	C	287	GLN	OE1-CD-NE2	5.28	127.88	122.60
7	M	1055	VAL	N-CA-C	5.28	116.00	110.62
8	N	1467	SER	CB-CA-C	-5.28	102.03	110.79
3	1	813	ASN	CA-C-N	5.28	127.69	120.46
3	1	813	ASN	C-N-CA	5.28	127.69	120.46
9	S	59	LYS	N-CA-CB	5.28	117.66	110.01
3	Z	663	ALA	CA-C-N	5.28	127.30	120.44
3	Z	663	ALA	C-N-CA	5.28	127.30	120.44
3	Z	1157	SER	CA-C-O	-5.28	114.96	120.55
7	M	105	GLN	O-C-N	-5.28	116.53	122.12
8	N	1428	ALA	CA-C-O	5.28	126.41	120.92
7	O	1655	SER	CA-C-O	5.28	127.54	121.47
8	P	1065	THR	N-CA-CB	5.28	117.66	110.01
3	Z	1317	SER	CA-C-N	5.27	127.35	120.28
3	Z	1317	SER	C-N-CA	5.27	127.35	120.28
5	B	527	LEU	N-CA-C	-5.27	105.58	112.23
3	1	630	PRO	N-CA-CB	5.27	109.13	103.33
3	1	771	PRO	N-CA-CB	5.27	109.09	103.39
3	1	1107	HIS	ND1-CE1-NE2	5.27	113.67	108.40
9	S	757	ALA	N-CA-CB	5.27	118.45	110.28
11	X	273	VAL	N-CA-C	5.27	116.83	109.55
2	Y	462	LEU	CA-C-O	5.27	126.89	120.62
2	Y	486	GLN	N-CA-C	5.27	117.03	111.28
3	Z	1316	VAL	CA-C-N	5.27	129.22	120.94
3	Z	1316	VAL	C-N-CA	5.27	129.22	120.94
7	M	125	HIS	ND1-CE1-NE2	5.27	113.67	108.40
9	Q	59	LYS	N-CA-CB	5.27	117.65	110.01
9	R	780	SER	CA-CB-OG	5.27	121.64	111.10
2	0	947	LEU	N-CA-C	-5.27	101.87	110.20
2	0	950	LYS	O-C-N	5.27	127.71	122.12
3	1	1237	GLU	N-CA-C	-5.27	105.61	111.36
6	I	394	ILE	CA-C-N	-5.27	112.30	120.31
6	I	394	ILE	C-N-CA	-5.27	112.30	120.31
7	O	583	SER	CA-C-O	5.27	126.03	119.97
8	P	1111	HIS	CA-C-O	5.27	126.06	120.10
6	C	461	HIS	CE1-NE2-CD2	-5.27	103.73	109.00
2	0	1082	GLN	CA-C-N	5.27	127.29	120.44
2	0	1082	GLN	C-N-CA	5.27	127.29	120.44
4	J	821	ILE	N-CA-CB	5.27	117.71	110.54
7	O	33	GLN	CB-CG-CD	-5.27	103.64	112.60
8	P	146	SER	CA-C-N	5.27	127.29	120.44
8	P	146	SER	C-N-CA	5.27	127.29	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z	1061	ASP	CA-CB-CG	5.27	117.87	112.60
6	F	329	ASP	CA-CB-CG	5.27	117.87	112.60
2	0	1405	GLU	N-CA-C	-5.27	106.08	112.88
4	J	657	GLN	CG-CD-OE1	-5.27	110.26	120.80
4	J	726	VAL	CA-CB-CG1	-5.27	101.44	110.40
5	K	288	ILE	CA-C-O	5.27	126.38	119.85
8	P	1269	GLY	CA-C-N	5.27	128.33	120.95
8	P	1269	GLY	C-N-CA	5.27	128.33	120.95
8	P	1530	LYS	CB-CA-C	-5.27	102.61	110.88
9	S	738	GLN	CG-CD-NE2	5.27	124.30	116.40
9	T	41	SER	CA-C-O	5.27	128.04	120.51
9	T	461	ASP	CA-C-N	5.27	127.29	120.44
9	T	461	ASP	C-N-CA	5.27	127.29	120.44
3	Z	1008	ILE	N-CA-CB	5.27	117.70	110.54
7	M	544	TYR	N-CA-C	-5.27	105.54	111.28
9	Q	582	GLU	O-C-N	5.27	127.78	122.09
9	R	414	LEU	CA-C-N	5.27	127.90	120.42
9	R	414	LEU	C-N-CA	5.27	127.90	120.42
9	R	751	LEU	O-C-N	5.27	128.75	122.27
2	0	161	LEU	N-CA-CB	5.27	117.96	110.16
3	1	110	ILE	N-CA-C	-5.27	102.78	109.58
6	I	287	GLN	OE1-CD-NE2	5.27	127.87	122.60
7	O	1634	LYS	CA-C-N	5.27	127.34	120.28
7	O	1634	LYS	C-N-CA	5.27	127.34	120.28
8	P	670	HIS	CG-CD2-NE2	5.27	112.47	107.20
8	P	737	ASP	N-CA-CB	5.27	117.86	110.12
8	P	1250	ILE	CA-C-N	5.27	127.60	120.38
8	P	1250	ILE	C-N-CA	5.27	127.60	120.38
9	S	534	PHE	CA-C-N	5.27	127.65	120.54
9	S	534	PHE	C-N-CA	5.27	127.65	120.54
3	Z	832	ALA	N-CA-C	5.27	116.83	108.67
7	M	514	CYS	N-CA-C	5.27	117.02	111.28
8	N	405	SER	CA-C-N	5.27	131.91	122.38
8	N	405	SER	C-N-CA	5.27	131.91	122.38
9	Q	293	ASN	CA-CB-CG	5.27	117.87	112.60
7	O	105	GLN	O-C-N	-5.27	116.54	122.12
7	O	1181	VAL	N-CA-C	-5.27	105.25	110.62
2	Y	698	ASN	CB-CG-ND2	5.26	124.30	116.40
2	Y	1240	ASN	CA-C-N	5.26	125.78	119.94
2	Y	1240	ASN	C-N-CA	5.26	125.78	119.94
5	E	379	ILE	O-C-N	5.26	127.25	121.83
5	E	407	GLU	CA-C-O	-5.26	113.58	119.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	1452	SER	O-C-N	-5.26	116.54	122.12
9	R	36	SER	CA-C-N	-5.26	114.67	123.04
9	R	36	SER	C-N-CA	-5.26	114.67	123.04
7	O	1450	GLY	N-CA-C	5.26	121.38	111.80
7	O	1610	ALA	CA-C-N	5.26	127.90	120.42
7	O	1610	ALA	C-N-CA	5.26	127.90	120.42
8	P	419	ASP	O-C-N	5.26	127.70	122.12
8	P	527	LYS	O-C-N	5.26	129.56	123.30
7	M	754	ASP	CA-C-N	5.26	127.76	120.29
7	M	754	ASP	C-N-CA	5.26	127.76	120.29
2	Y	157	PRO	N-CA-CB	5.26	108.78	103.25
4	A	764	SER	N-CA-C	5.26	117.02	111.28
7	M	1654	ASN	N-CA-CB	5.26	119.38	110.49
8	N	33	ASP	N-CA-C	-5.26	101.12	109.96
8	N	941	SER	N-CA-C	5.26	117.18	109.71
2	0	911	ASN	O-C-N	5.26	128.15	122.15
3	1	421	PHE	CG-CD2-CE2	5.26	129.65	120.70
3	1	832	ALA	N-CA-C	5.26	116.83	108.67
3	1	993	PRO	N-CA-C	-5.26	106.87	114.18
7	O	518	ASN	OD1-CG-ND2	5.26	127.86	122.60
7	O	1088	ARG	NE-CZ-NH1	5.26	126.76	121.50
8	P	1431	ILE	N-CA-C	-5.26	98.40	107.24
2	Y	386	SER	CB-CA-C	5.26	119.00	109.37
2	Y	1318	HIS	CA-CB-CG	-5.26	108.54	113.80
7	M	1524	PHE	N-CA-CB	5.26	117.64	110.01
8	N	1330	GLU	CA-C-N	5.26	129.62	120.68
8	N	1330	GLU	C-N-CA	5.26	129.62	120.68
4	G	764	SER	N-CA-C	5.26	117.01	111.28
7	O	111	GLN	CA-C-N	5.26	127.33	120.28
7	O	111	GLN	C-N-CA	5.26	127.33	120.28
7	O	1654	ASN	N-CA-CB	5.26	119.38	110.49
8	P	983	ASN	CA-C-O	5.26	126.54	120.60
8	P	1490	ARG	NE-CZ-NH1	-5.26	116.24	121.50
11	X	377	PHE	CB-CA-C	5.26	118.45	109.72
6	F	383	LYS	N-CA-C	5.26	118.86	112.23
3	1	715	LEU	CA-C-O	-5.26	115.30	120.82
4	J	674	GLU	N-CA-CB	5.26	117.77	109.94
3	Z	771	PRO	N-CA-CB	5.26	109.07	103.39
3	Z	1003	ASN	CA-C-O	5.26	126.12	120.55
3	Z	1380	GLN	CA-C-N	5.26	127.75	120.29
3	Z	1380	GLN	C-N-CA	5.26	127.75	120.29
4	D	657	GLN	CG-CD-OE1	-5.26	110.29	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	583	SER	CA-C-O	5.26	126.02	119.97
8	N	983	ASN	CA-C-O	5.26	126.54	120.60
9	R	231	ASN	N-CA-C	-5.26	102.27	110.42
2	0	157	PRO	N-CA-CB	5.26	108.77	103.25
3	1	1351	TYR	CG-CD2-CE2	-5.26	113.31	121.20
6	L	343	ASP	N-CA-CB	5.26	119.33	110.92
7	O	163	ASN	N-CA-CB	5.26	117.85	110.12
10	W	354	ALA	N-CA-CB	5.26	119.37	110.49
7	M	1137	ASN	CA-C-N	5.25	127.75	120.29
7	M	1137	ASN	C-N-CA	5.25	127.75	120.29
9	R	209	ARG	NE-CZ-NH2	-5.25	114.47	119.20
2	Y	1405	GLU	N-CA-C	-5.25	106.10	112.88
3	1	1349	ASP	O-C-N	-5.25	116.16	122.15
3	Z	993	PRO	N-CA-C	-5.25	106.88	114.18
8	N	1260	TYR	N-CA-CB	5.25	117.62	110.01
8	N	1431	ILE	N-CA-C	-5.25	98.42	107.24
8	N	1598	LEU	CA-C-N	5.25	127.27	120.44
8	N	1598	LEU	C-N-CA	5.25	127.27	120.44
8	N	1640	ILE	O-C-N	-5.25	116.78	121.87
3	1	738	GLU	CB-CG-CD	-5.25	103.67	112.60
5	H	459	LEU	CA-C-N	5.25	127.75	120.29
5	H	459	LEU	C-N-CA	5.25	127.75	120.29
7	O	38	ASN	CA-C-O	5.25	125.75	121.02
8	P	332	ARG	O-C-N	5.25	127.69	122.12
9	T	231	ASN	N-CA-C	-5.25	102.28	110.42
9	T	738	GLN	CA-C-N	5.25	127.32	120.28
9	T	738	GLN	C-N-CA	5.25	127.32	120.28
3	Z	764	ASP	CB-CA-C	-5.25	102.08	110.79
7	M	610	SER	O-C-N	-5.25	116.56	122.12
8	N	1250	ILE	CA-C-N	5.25	127.57	120.38
8	N	1250	ILE	C-N-CA	5.25	127.57	120.38
9	R	145	ASN	CA-C-O	5.25	126.33	120.82
2	Y	962	LEU	CA-C-O	5.25	125.98	120.42
3	Z	1239	ASN	CB-CA-C	-5.25	102.64	110.88
3	Z	1351	TYR	CG-CD2-CE2	-5.25	113.33	121.20
9	Q	526	LYS	N-CA-C	-5.25	101.32	109.72
9	Q	837	VAL	CA-C-O	-5.25	113.34	119.85
9	R	328	ILE	N-CA-C	-5.25	100.76	108.11
2	0	118	THR	CA-C-N	5.25	126.40	119.84
2	0	118	THR	C-N-CA	5.25	126.40	119.84
2	0	1137	ASP	CA-C-N	5.25	127.74	120.29
2	0	1137	ASP	C-N-CA	5.25	127.74	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	1	1177	VAL	CA-C-N	5.25	127.31	120.28
3	1	1177	VAL	C-N-CA	5.25	127.31	120.28
7	O	784	ILE	CB-CA-C	-5.25	105.25	111.97
8	P	1147	LEU	N-CA-C	-5.25	107.05	113.50
8	P	1294	ASP	CA-C-N	5.25	127.63	120.54
8	P	1294	ASP	C-N-CA	5.25	127.63	120.54
3	Z	1327	ARG	N-CA-CB	5.25	117.93	110.16
11	V	377	PHE	CB-CA-C	5.25	118.43	109.72
2	0	788	HIS	CB-CG-CD2	-5.25	124.38	131.20
2	0	1170	ARG	NE-CZ-NH2	-5.25	114.48	119.20
9	T	821	GLN	OE1-CD-NE2	-5.25	117.35	122.60
3	1	262	ASN	CA-C-N	5.25	130.36	122.75
3	1	262	ASN	C-N-CA	5.25	130.36	122.75
4	G	768	GLU	CA-C-N	5.25	127.64	120.46
4	G	768	GLU	C-N-CA	5.25	127.64	120.46
8	P	405	SER	CA-C-N	5.25	131.87	122.38
8	P	405	SER	C-N-CA	5.25	131.87	122.38
8	P	408	PRO	O-C-N	5.25	129.72	122.64
2	Y	118	THR	CA-C-N	5.24	126.39	119.84
2	Y	118	THR	C-N-CA	5.24	126.39	119.84
2	Y	852	PHE	CA-C-O	-5.24	115.31	120.82
3	Z	110	ILE	N-CA-C	-5.24	102.82	109.58
3	Z	1177	VAL	CA-C-N	5.24	127.31	120.28
3	Z	1177	VAL	C-N-CA	5.24	127.31	120.28
9	Q	757	ALA	N-CA-CB	5.24	118.41	110.28
9	R	93	ASN	N-CA-CB	5.24	117.83	110.12
9	R	461	ASP	CA-C-N	5.24	127.26	120.44
9	R	461	ASP	C-N-CA	5.24	127.26	120.44
3	1	417	ASN	CA-CB-CG	5.24	117.84	112.60
7	O	943	ARG	NE-CZ-NH2	-5.24	114.48	119.20
8	P	19	ALA	CA-C-N	5.24	127.73	120.29
8	P	19	ALA	C-N-CA	5.24	127.73	120.29
9	T	660	LEU	CA-C-N	5.24	127.73	120.29
9	T	660	LEU	C-N-CA	5.24	127.73	120.29
5	H	527	LEU	N-CA-C	-5.24	105.62	112.23
8	P	436	ASN	CA-CB-CG	-5.24	107.36	112.60
8	N	890	LEU	CA-C-N	5.24	126.08	120.47
8	N	890	LEU	C-N-CA	5.24	126.08	120.47
8	N	1085	CYS	N-CA-C	5.24	116.99	111.28
8	N	1530	LYS	CB-CA-C	-5.24	102.65	110.88
9	R	533	ARG	CA-C-N	5.24	127.30	120.28
9	R	533	ARG	C-N-CA	5.24	127.30	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	V	273	VAL	N-CA-C	5.24	116.78	109.55
6	I	402	ASP	N-CA-C	-5.24	105.46	111.07
8	P	780	HIS	CG-CD2-NE2	5.24	112.44	107.20
9	S	569	VAL	CB-CA-C	5.24	118.88	112.02
2	Y	655	PRO	O-C-N	5.24	128.51	122.17
2	Y	1082	GLN	CA-C-N	5.24	127.25	120.44
2	Y	1082	GLN	C-N-CA	5.24	127.25	120.44
3	Z	1003	ASN	CB-CA-C	-5.24	102.09	110.79
3	Z	1075	LEU	N-CA-C	-5.24	101.73	110.17
3	Z	1349	ASP	O-C-N	-5.24	116.18	122.15
2	0	1446	LYS	CB-CA-C	5.24	119.75	110.85
7	O	374	THR	CA-C-O	5.24	128.00	120.51
7	O	1452	SER	O-C-N	-5.24	116.57	122.12
8	P	1045	ALA	O-C-N	-5.24	116.67	122.07
8	P	1212	THR	N-CA-CB	5.24	117.82	110.12
8	P	1436	GLU	CA-C-O	-5.24	113.75	120.04
10	W	264	ASN	CA-CB-CG	-5.24	107.36	112.60
4	A	768	GLU	CA-C-N	5.24	127.64	120.46
4	A	768	GLU	C-N-CA	5.24	127.64	120.46
7	M	111	GLN	CA-C-N	5.24	127.30	120.28
7	M	111	GLN	C-N-CA	5.24	127.30	120.28
8	N	436	ASN	CA-CB-CG	-5.24	107.36	112.60
2	Y	1390	LEU	CA-C-O	-5.24	115.30	120.90
3	Z	870	VAL	CA-C-N	5.24	127.16	120.56
3	Z	870	VAL	C-N-CA	5.24	127.16	120.56
5	E	329	HIS	CA-C-N	5.24	131.21	122.57
5	E	329	HIS	C-N-CA	5.24	131.21	122.57
7	M	234	THR	CA-C-N	5.24	124.86	119.05
7	M	234	THR	C-N-CA	5.24	124.86	119.05
7	M	1346	ASN	CA-C-N	5.24	128.89	120.30
7	M	1346	ASN	C-N-CA	5.24	128.89	120.30
8	N	1294	ASP	CA-C-N	5.24	127.61	120.54
8	N	1294	ASP	C-N-CA	5.24	127.61	120.54
8	N	1490	ARG	NE-CZ-NH1	-5.24	116.27	121.50
9	Q	625	GLU	O-C-N	-5.24	116.18	122.15
2	0	867	TYR	CA-C-N	5.24	128.10	120.98
2	0	867	TYR	C-N-CA	5.24	128.10	120.98
2	0	1240	ASN	CA-C-N	5.24	125.75	119.94
2	0	1240	ASN	C-N-CA	5.24	125.75	119.94
3	1	918	MET	CB-CA-C	-5.24	110.52	116.54
3	Z	237	PHE	CA-CB-CG	-5.23	108.57	113.80
3	1	445	SER	N-CA-C	5.23	118.15	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	1137	ASN	CA-C-N	5.23	127.72	120.29
7	O	1137	ASN	C-N-CA	5.23	127.72	120.29
8	P	111	HIS	CA-C-N	5.23	127.16	120.56
8	P	111	HIS	C-N-CA	5.23	127.16	120.56
9	S	705	GLN	N-CA-C	-5.23	107.42	112.97
3	Z	417	ASN	CA-CB-CG	5.23	117.83	112.60
3	Z	738	GLU	CB-CG-CD	-5.23	103.70	112.60
3	Z	1095	SER	O-C-N	5.23	127.67	122.12
7	M	944	ILE	O-C-N	-5.23	116.80	121.87
7	M	1204	GLY	N-CA-C	5.23	119.26	112.25
9	Q	464	ASN	CA-C-N	5.23	127.85	120.42
9	Q	464	ASN	C-N-CA	5.23	127.85	120.42
9	R	292	LYS	N-CA-CB	5.23	118.39	110.28
2	0	683	LEU	CA-C-N	5.23	127.60	120.54
2	0	683	LEU	C-N-CA	5.23	127.60	120.54
2	0	1390	LEU	CA-C-O	-5.23	115.30	120.90
7	O	1258	HIS	CG-CD2-NE2	5.23	112.43	107.20
3	Z	262	ASN	CA-C-N	5.23	130.34	122.75
3	Z	262	ASN	C-N-CA	5.23	130.34	122.75
7	M	833	THR	CA-C-N	5.23	127.60	120.54
7	M	833	THR	C-N-CA	5.23	127.60	120.54
7	M	1245	LEU	CA-C-O	5.23	126.31	120.82
8	N	695	LEU	CB-CA-C	-5.23	102.44	110.81
9	Q	569	VAL	CB-CA-C	5.23	118.87	112.02
10	U	354	ALA	N-CA-CB	5.23	119.33	110.49
8	P	816	ALA	CB-CA-C	-5.23	102.06	112.05
3	Z	662	LEU	O-C-N	5.23	127.66	122.12
7	M	1610	ALA	CA-C-N	5.23	127.84	120.42
7	M	1610	ALA	C-N-CA	5.23	127.84	120.42
3	1	764	ASP	CB-CA-C	-5.23	102.11	110.79
5	H	309	ARG	N-CA-CB	5.23	119.33	110.49
8	P	1608	HIS	CA-C-N	5.23	124.73	119.19
8	P	1608	HIS	C-N-CA	5.23	124.73	119.19
2	Y	356	ILE	CA-C-N	5.23	127.23	120.44
2	Y	356	ILE	C-N-CA	5.23	127.23	120.44
2	Y	903	ILE	CA-C-N	5.23	127.23	120.44
2	Y	903	ILE	C-N-CA	5.23	127.23	120.44
7	M	1181	VAL	N-CA-C	-5.23	105.29	110.62
7	M	1490	ARG	N-CA-C	5.23	117.72	111.71
8	N	1065	THR	N-CA-CB	5.23	117.59	110.01
3	1	1003	ASN	CB-CA-C	-5.23	102.11	110.79
6	L	448	THR	CA-C-O	-5.23	114.88	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	416	TYR	N-CA-C	-5.23	105.36	112.26
7	O	1326	ASN	CA-CB-CG	-5.23	107.37	112.60
7	O	1436	LYS	CA-C-N	5.23	127.55	120.44
7	O	1436	LYS	C-N-CA	5.23	127.55	120.44
9	S	739	MET	CA-C-N	5.23	127.28	120.28
9	S	739	MET	C-N-CA	5.23	127.28	120.28
9	S	253	LEU	CA-C-O	-5.23	114.88	120.42
9	T	93	ASN	N-CA-CB	5.23	117.80	110.12
2	Y	862	GLN	N-CA-C	-5.22	102.26	110.36
2	Y	971	ILE	CB-CA-C	-5.22	105.28	111.97
3	Z	1228	PHE	CA-C-O	-5.22	114.69	120.38
6	F	343	ASP	N-CA-CB	5.22	119.28	110.92
2	0	386	SER	N-CA-C	-5.22	101.64	109.95
3	1	1075	LEU	N-CA-C	-5.22	101.76	110.17
8	P	1085	CYS	N-CA-C	5.22	116.97	111.28
8	P	1443	THR	CA-C-O	-5.22	115.01	120.55
9	T	533	ARG	CA-C-N	5.22	127.28	120.28
9	T	533	ARG	C-N-CA	5.22	127.28	120.28
9	T	603	VAL	CA-C-O	-5.22	114.98	120.57
2	Y	161	LEU	N-CA-CB	5.22	117.89	110.16
2	Y	203	VAL	CB-CA-C	5.22	118.61	110.83
2	Y	1416	PHE	N-CA-C	5.22	117.05	111.36
7	M	374	THR	CA-C-O	5.22	127.98	120.51
7	M	1088	ARG	NE-CZ-NH1	5.22	126.72	121.50
7	M	1428	GLN	CB-CA-C	-5.22	102.12	110.79
5	K	407	GLU	CA-C-O	-5.22	113.63	119.79
9	S	293	ASN	CA-CB-CG	5.22	117.82	112.60
2	Y	788	HIS	CB-CG-CD2	-5.22	124.41	131.20
2	Y	1465	ILE	CA-CB-CG1	-5.22	101.52	110.40
2	0	1465	ILE	CA-CB-CG1	-5.22	101.52	110.40
4	J	693	ILE	N-CA-CB	-5.22	105.34	112.28
4	J	802	ASP	CA-CB-CG	5.22	117.82	112.60
7	O	544	TYR	N-CA-C	-5.22	105.59	111.28
8	P	1467	SER	CB-CA-C	-5.22	102.12	110.79
9	T	815	ILE	CA-C-N	5.22	127.23	120.44
9	T	815	ILE	C-N-CA	5.22	127.23	120.44
2	Y	683	LEU	CA-C-N	5.22	127.59	120.54
2	Y	683	LEU	C-N-CA	5.22	127.59	120.54
2	Y	1080	ALA	CA-C-N	5.22	128.24	120.31
2	Y	1080	ALA	C-N-CA	5.22	128.24	120.31
7	M	202	ASP	CA-CB-CG	5.22	117.82	112.60
7	M	1498	LEU	CA-C-N	5.22	128.25	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	1498	LEU	C-N-CA	5.22	128.25	120.31
8	N	119	ASN	CA-C-O	-5.22	115.52	119.59
8	N	211	GLN	N-CA-C	5.22	117.05	111.36
8	N	1212	THR	N-CA-CB	5.22	117.79	110.12
9	R	651	ASP	CA-CB-CG	5.22	117.82	112.60
2	0	163	GLU	CA-C-N	5.22	127.28	120.28
2	0	163	GLU	C-N-CA	5.22	127.28	120.28
2	0	203	VAL	CB-CA-C	5.22	118.61	110.83
2	0	271	ILE	CA-CB-CG1	5.22	119.27	110.40
2	0	862	GLN	N-CA-C	-5.22	102.27	110.36
3	1	947	LEU	CA-C-N	5.22	127.22	120.44
3	1	947	LEU	C-N-CA	5.22	127.22	120.44
4	J	685	MET	N-CA-C	5.22	116.97	111.28
2	Y	867	TYR	CA-C-N	5.22	128.08	120.98
2	Y	867	TYR	C-N-CA	5.22	128.08	120.98
7	M	1365	ASN	CA-CB-CG	-5.22	107.38	112.60
8	N	1455	PRO	N-CA-CB	5.22	109.07	103.33
9	T	807	LYS	CA-C-O	-5.22	114.20	120.10
2	Y	525	ILE	CA-C-N	5.22	129.50	122.93
2	Y	525	ILE	C-N-CA	5.22	129.50	122.93
2	Y	1050	ALA	CA-C-N	5.22	127.61	120.46
2	Y	1050	ALA	C-N-CA	5.22	127.61	120.46
8	N	247	PHE	CB-CA-C	-5.22	102.13	110.79
9	R	815	ILE	CA-C-N	5.22	127.22	120.44
9	R	815	ILE	C-N-CA	5.22	127.22	120.44
3	1	842	GLU	N-CA-C	5.22	116.97	111.28
6	L	271	PRO	CA-N-CD	-5.22	104.70	112.00
7	O	303	LYS	O-C-N	-5.22	116.08	122.34
7	O	496	SER	CA-C-N	5.22	129.43	120.72
7	O	496	SER	C-N-CA	5.22	129.43	120.72
7	O	1428	GLN	CB-CA-C	-5.22	102.13	110.79
8	P	1519	CYS	O-C-N	5.22	127.44	122.07
2	Y	114	LYS	CA-C-N	5.21	127.79	120.28
2	Y	114	LYS	C-N-CA	5.21	127.79	120.28
2	Y	271	ILE	CA-CB-CG1	5.21	119.27	110.40
2	Y	510	GLN	CA-C-N	5.21	127.22	120.44
2	Y	510	GLN	C-N-CA	5.21	127.22	120.44
4	A	644	TRP	CA-C-N	5.21	127.27	120.28
4	A	644	TRP	C-N-CA	5.21	127.27	120.28
7	M	416	TYR	CA-CB-CG	-5.21	104.51	113.90
8	N	1147	LEU	N-CA-C	-5.21	107.09	113.50
8	N	1552	ASN	CA-C-O	-5.21	115.02	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	1610	LYS	CA-C-N	5.21	127.69	120.29
8	N	1610	LYS	C-N-CA	5.21	127.69	120.29
3	1	159	ILE	CA-CB-CG2	-5.21	101.64	110.50
5	H	329	HIS	N-CA-CB	5.21	119.30	110.49
7	O	610	SER	O-C-N	-5.21	116.59	122.12
8	P	1571	ILE	O-C-N	5.21	128.09	123.03
2	Y	386	SER	N-CA-C	-5.21	101.66	109.95
8	N	332	ARG	O-C-N	5.21	127.64	122.12
8	N	1194	LEU	CA-C-O	-5.21	115.35	120.82
3	1	930	THR	CA-C-N	5.21	127.69	120.29
3	1	930	THR	C-N-CA	5.21	127.69	120.29
2	Y	594	GLU	N-CA-CB	5.21	118.78	110.65
2	Y	1160	HIS	CA-C-O	-5.21	114.90	120.42
2	Y	1446	LYS	CB-CA-C	5.21	119.71	110.85
3	Z	512	ARG	NE-CZ-NH2	-5.21	114.51	119.20
7	M	1631	ASN	CA-C-O	-5.21	115.35	120.82
8	N	670	HIS	CG-CD2-NE2	5.21	112.41	107.20
8	N	812	SER	N-CA-CB	5.21	117.63	109.97
9	R	738	GLN	CA-C-N	5.21	127.27	120.28
9	R	738	GLN	C-N-CA	5.21	127.27	120.28
2	0	1080	ALA	CA-C-N	5.21	128.23	120.31
2	0	1080	ALA	C-N-CA	5.21	128.23	120.31
3	1	663	ALA	CA-C-N	5.21	127.22	120.44
3	1	663	ALA	C-N-CA	5.21	127.22	120.44
3	1	957	LEU	CA-C-N	5.21	129.54	122.19
3	1	957	LEU	C-N-CA	5.21	129.54	122.19
3	1	1095	SER	O-C-N	5.21	127.64	122.12
3	1	1135	ALA	CA-C-N	5.21	127.53	120.44
3	1	1135	ALA	C-N-CA	5.21	127.53	120.44
7	O	1346	ASN	CA-C-N	5.21	128.85	120.30
7	O	1346	ASN	C-N-CA	5.21	128.85	120.30
8	P	1112	PHE	CA-C-O	-5.21	112.97	119.38
3	Z	224	VAL	CA-C-N	-5.21	115.53	122.72
3	Z	224	VAL	C-N-CA	-5.21	115.53	122.72
8	N	1501	SER	CA-C-N	5.21	127.12	120.56
8	N	1501	SER	C-N-CA	5.21	127.12	120.56
2	0	1297	LEU	N-CA-CB	5.21	118.32	110.30
2	Y	474	PRO	CA-C-N	5.21	127.57	120.54
2	Y	474	PRO	C-N-CA	5.21	127.57	120.54
3	Z	445	SER	N-CA-C	5.21	118.11	110.30
3	Z	1069	GLN	OE1-CD-NE2	5.21	127.81	122.60
4	A	760	SER	N-CA-C	5.21	116.77	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	693	ILE	N-CA-CB	-5.21	105.35	112.28
4	D	821	ILE	N-CA-CB	5.21	117.62	110.54
7	M	416	TYR	N-CA-C	-5.21	105.39	112.26
7	M	822	CYS	CA-C-O	-5.21	114.75	120.17
8	N	737	ASP	N-CA-CB	5.21	117.78	110.12
8	N	1166	VAL	O-C-N	-5.21	116.47	121.83
8	N	1183	PHE	N-CA-C	5.21	116.96	111.28
9	R	638	TYR	CA-CB-CG	-5.21	104.52	113.90
2	0	1050	ALA	CA-C-N	5.21	127.60	120.46
2	0	1050	ALA	C-N-CA	5.21	127.60	120.46
4	J	722	LEU	O-C-N	5.21	127.64	122.12
6	L	383	LYS	N-CA-C	5.21	118.79	112.23
7	O	106	TYR	CA-C-N	5.21	127.69	120.29
7	O	106	TYR	C-N-CA	5.21	127.69	120.29
8	P	260	ARG	CA-C-N	5.21	127.12	120.56
8	P	260	ARG	C-N-CA	5.21	127.12	120.56
8	P	387	LEU	CA-C-N	5.21	127.52	120.38
8	P	387	LEU	C-N-CA	5.21	127.52	120.38
9	S	227	GLN	O-C-N	5.21	128.09	122.15
2	Y	768	PRO	N-CD-CG	5.21	111.01	103.20
3	Z	1107	HIS	ND1-CE1-NE2	5.21	113.61	108.40
8	N	260	ARG	CA-C-N	5.21	127.12	120.56
8	N	260	ARG	C-N-CA	5.21	127.12	120.56
8	N	576	TYR	N-CA-CB	5.21	117.87	110.16
8	N	1573	PRO	CA-C-O	-5.21	115.66	121.23
8	N	1608	HIS	CA-C-N	5.21	124.71	119.19
8	N	1608	HIS	C-N-CA	5.21	124.71	119.19
9	Q	397	HIS	ND1-CE1-NE2	5.21	113.61	108.40
2	0	207	MET	CA-C-O	5.21	126.32	120.70
7	O	1365	ASN	CA-CB-CG	-5.21	107.39	112.60
8	P	1501	SER	CA-C-N	5.21	127.12	120.56
8	P	1501	SER	C-N-CA	5.21	127.12	120.56
3	Z	1135	ALA	CA-C-N	5.21	127.52	120.44
3	Z	1135	ALA	C-N-CA	5.21	127.52	120.44
2	0	962	LEU	CA-C-O	5.21	125.94	120.42
4	J	762	LEU	N-CA-C	5.21	117.36	111.11
9	T	145	ASN	CA-C-O	5.21	126.29	120.82
9	T	292	LYS	N-CA-CB	5.21	118.35	110.28
2	Y	625	ALA	N-CA-C	-5.20	106.17	112.88
2	Y	1199	ILE	CA-C-N	5.20	127.51	120.38
2	Y	1199	ILE	C-N-CA	5.20	127.51	120.38
3	Z	957	LEU	CA-C-N	5.20	129.53	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z	957	LEU	C-N-CA	5.20	129.53	122.19
2	0	971	ILE	CA-C-N	5.20	127.25	120.28
2	0	971	ILE	C-N-CA	5.20	127.25	120.28
3	1	735	SER	N-CA-C	-5.20	104.92	113.50
6	I	461	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
7	O	202	ASP	CA-CB-CG	5.20	117.80	112.60
9	S	387	SER	CA-C-N	5.20	127.25	120.28
9	S	387	SER	C-N-CA	5.20	127.25	120.28
9	T	391	HIS	ND1-CE1-NE2	5.20	113.60	108.40
4	D	800	HIS	N-CA-C	-5.20	107.10	113.50
7	M	573	ASN	CA-C-O	-5.20	115.34	120.70
9	Q	452	PRO	CA-C-O	-5.20	115.48	121.36
9	R	499	SER	CA-C-N	5.20	127.25	120.28
9	R	499	SER	C-N-CA	5.20	127.25	120.28
8	P	1641	SER	O-C-N	5.20	127.63	122.12
3	Z	930	THR	CA-C-N	5.20	127.67	120.29
3	Z	930	THR	C-N-CA	5.20	127.67	120.29
3	Z	947	LEU	CA-C-N	5.20	127.20	120.44
3	Z	947	LEU	C-N-CA	5.20	127.20	120.44
6	C	341	ASP	CA-CB-CG	-5.20	107.40	112.60
8	N	387	LEU	CA-C-N	5.20	127.50	120.38
8	N	387	LEU	C-N-CA	5.20	127.50	120.38
3	1	1316	VAL	CA-C-N	5.20	129.10	120.94
3	1	1316	VAL	C-N-CA	5.20	129.10	120.94
9	S	464	ASN	CA-C-N	5.20	127.81	120.42
9	S	464	ASN	C-N-CA	5.20	127.81	120.42
6	F	469	SER	CA-C-N	5.20	129.30	120.88
6	F	469	SER	C-N-CA	5.20	129.30	120.88
7	M	38	ASN	CA-C-O	5.20	125.70	121.02
8	N	891	PRO	N-CA-C	-5.20	105.91	114.75
8	N	1519	CYS	O-C-N	5.20	127.42	122.07
2	0	903	ILE	CA-C-N	5.20	127.20	120.44
2	0	903	ILE	C-N-CA	5.20	127.20	120.44
7	O	85	GLU	CA-C-O	-5.20	113.99	119.97
7	O	416	TYR	CA-CB-CG	-5.20	104.54	113.90
7	O	506	ASN	CA-C-O	-5.20	114.91	120.42
7	O	754	ASP	CA-C-N	5.20	127.67	120.29
7	O	754	ASP	C-N-CA	5.20	127.67	120.29
7	O	1657	ASP	CA-CB-CG	-5.20	107.40	112.60
8	P	247	PHE	CB-CA-C	-5.20	102.16	110.79
8	P	888	TYR	N-CA-C	5.20	116.95	111.28
9	S	397	HIS	ND1-CE1-NE2	5.20	113.60	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	154	ILE	CB-CA-C	5.20	118.62	111.97
9	Q	237	GLU	O-C-N	5.20	127.63	122.12
8	P	576	TYR	N-CA-CB	5.20	117.85	110.16
8	P	812	SER	N-CA-CB	5.20	117.61	109.97
2	Y	1170	ARG	NE-CZ-NH2	-5.20	114.52	119.20
3	Z	166	PHE	CA-C-N	5.20	127.56	120.54
3	Z	166	PHE	C-N-CA	5.20	127.56	120.54
5	B	309	ARG	N-CA-CB	5.20	119.27	110.49
7	M	1426	VAL	CA-C-N	5.20	127.67	120.29
7	M	1426	VAL	C-N-CA	5.20	127.67	120.29
3	1	770	ARG	CA-C-N	5.20	125.00	119.28
3	1	770	ARG	C-N-CA	5.20	125.00	119.28
3	1	870	VAL	CA-C-N	5.20	127.11	120.56
3	1	870	VAL	C-N-CA	5.20	127.11	120.56
7	O	1257	LEU	N-CA-C	5.20	117.85	111.82
8	P	154	ILE	CB-CA-C	5.20	118.62	111.97
2	Y	250	ALA	CB-CA-C	-5.19	100.08	110.42
5	E	377	ASN	CA-CB-CG	-5.19	107.41	112.60
8	N	816	ALA	CB-CA-C	-5.19	102.13	112.05
2	0	579	SER	N-CA-C	-5.19	99.82	108.34
3	1	1023	GLN	OE1-CD-NE2	-5.19	117.41	122.60
6	I	270	PRO	CB-CA-C	5.19	119.97	110.10
7	O	1135	CYS	N-CA-C	5.19	116.63	111.07
7	O	1366	ARG	NE-CZ-NH2	-5.19	114.53	119.20
2	Y	971	ILE	CA-C-N	5.19	127.24	120.28
2	Y	971	ILE	C-N-CA	5.19	127.24	120.28
3	Z	735	SER	N-CA-C	-5.19	104.93	113.50
3	Z	752	VAL	CA-C-N	5.19	127.24	120.28
3	Z	752	VAL	C-N-CA	5.19	127.24	120.28
3	Z	770	ARG	CA-C-N	5.19	124.99	119.28
3	Z	770	ARG	C-N-CA	5.19	124.99	119.28
4	D	676	ILE	O-C-N	-5.19	114.71	121.82
6	F	381	GLU	CB-CG-CD	-5.19	103.77	112.60
9	Q	253	LEU	CA-C-O	-5.19	114.92	120.42
9	R	603	VAL	CA-C-O	-5.19	115.01	120.57
9	R	774	LEU	N-CA-C	5.19	116.94	111.28
9	R	807	LYS	CA-C-O	-5.19	114.23	120.10
3	1	146	ILE	O-C-N	-5.19	115.18	121.10
7	O	944	ILE	O-C-N	-5.19	116.83	121.87
8	P	205	PRO	N-CA-C	5.19	119.37	111.11
8	P	1278	ILE	N-CA-CB	5.19	116.62	110.55
6	F	271	PRO	CA-N-CD	-5.19	104.73	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	861	GLN	N-CA-CB	5.19	117.75	110.12
7	M	1135	CYS	N-CA-C	5.19	116.62	111.07
9	Q	494	TYR	N-CA-C	5.19	117.02	111.36
2	0	168	GLN	N-CA-C	-5.19	108.21	114.75
6	L	381	GLU	CB-CG-CD	-5.19	103.78	112.60
9	S	473	ARG	NE-CZ-NH1	5.19	126.69	121.50
9	T	499	SER	CA-C-N	5.19	127.23	120.28
9	T	499	SER	C-N-CA	5.19	127.23	120.28
9	Q	588	VAL	CA-CB-CG1	5.19	119.22	110.40
4	G	760	SER	N-CA-C	5.19	116.74	111.14
7	O	121	VAL	O-C-N	-5.19	116.84	121.87
8	P	487	SER	O-C-N	-5.19	115.69	122.59
11	X	287	HIS	CG-CD2-NE2	5.19	112.39	107.20
3	Z	380	ASP	CA-C-N	5.19	127.75	120.28
3	Z	380	ASP	C-N-CA	5.19	127.75	120.28
3	Z	1370	GLU	CA-C-O	5.19	124.23	118.52
7	M	106	TYR	CA-C-N	5.19	127.66	120.29
7	M	106	TYR	C-N-CA	5.19	127.66	120.29
7	M	575	SER	CA-C-N	5.19	127.66	120.29
7	M	575	SER	C-N-CA	5.19	127.66	120.29
9	Q	422	ARG	N-CA-C	-5.19	99.88	108.75
9	R	240	SER	CA-C-O	5.19	126.27	120.82
2	0	594	GLU	N-CA-CB	5.19	118.74	110.65
2	0	768	PRO	N-CD-CG	5.19	110.98	103.20
6	I	341	ASP	CA-CB-CG	-5.19	107.41	112.60
7	O	452	LYS	N-CA-CB	5.19	117.74	110.12
8	P	1552	ASN	CA-C-O	-5.19	115.05	120.55
9	S	588	VAL	CA-CB-CG1	5.19	119.22	110.40
3	Z	380	ASP	CA-CB-CG	5.19	117.79	112.60
6	C	288	VAL	N-CA-CB	5.19	118.36	110.58
3	1	224	VAL	CA-C-N	-5.19	115.56	122.72
3	1	224	VAL	C-N-CA	-5.19	115.56	122.72
7	O	1484	ARG	NH1-CZ-NH2	-5.19	112.56	119.30
2	Y	119	PRO	N-CD-CG	5.18	110.97	103.20
3	Z	159	ILE	CA-CB-CG2	-5.18	101.69	110.50
3	Z	614	TYR	CB-CG-CD2	5.18	128.58	120.80
3	Z	1107	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
7	M	496	SER	CA-C-N	5.18	129.38	120.72
7	M	496	SER	C-N-CA	5.18	129.38	120.72
7	M	943	ARG	NE-CZ-NH2	-5.18	114.53	119.20
8	N	1571	ILE	O-C-N	5.18	128.06	123.03
9	Q	294	MET	CA-C-N	5.18	129.50	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	Q	294	MET	C-N-CA	5.18	129.50	122.19
2	0	1150	LEU	N-CA-C	-5.18	105.71	111.36
3	1	380	ASP	CA-C-N	5.18	127.75	120.28
3	1	380	ASP	C-N-CA	5.18	127.75	120.28
3	1	849	PHE	CA-C-N	5.18	128.19	120.31
3	1	849	PHE	C-N-CA	5.18	128.19	120.31
7	O	111	GLN	N-CA-C	5.18	116.62	111.07
7	O	573	ASN	CA-C-O	-5.18	115.36	120.70
7	O	850	GLN	OE1-CD-NE2	-5.18	117.42	122.60
7	O	1103	GLU	N-CA-C	-5.18	106.73	113.16
9	S	494	TYR	N-CA-C	5.18	117.01	111.36
9	S	665	LEU	CA-C-O	5.18	126.05	120.55
9	T	638	TYR	CA-CB-CG	-5.18	104.57	113.90
3	Z	842	GLU	N-CA-C	5.18	116.93	111.28
4	D	802	ASP	CA-CB-CG	5.18	117.78	112.60
5	E	378	HIS	ND1-CE1-NE2	5.18	113.58	108.40
7	M	342	TYR	CA-CB-CG	-5.18	104.57	113.90
8	N	1176	PRO	CA-C-N	5.18	128.13	120.82
8	N	1176	PRO	C-N-CA	5.18	128.13	120.82
9	Q	787	HIS	CG-CD2-NE2	5.18	112.38	107.20
3	1	1155	GLN	O-C-N	5.18	127.61	122.12
4	G	644	TRP	CA-C-N	5.18	127.22	120.28
4	G	644	TRP	C-N-CA	5.18	127.22	120.28
6	I	288	VAL	N-CA-CB	5.18	118.35	110.58
7	O	759	ASP	CA-C-O	-5.18	113.56	119.41
8	P	23	ASN	CA-C-O	-5.18	115.06	120.55
8	P	891	PRO	N-CA-C	-5.18	105.94	114.75
8	P	1390	SER	CA-C-N	5.18	127.22	120.28
8	P	1390	SER	C-N-CA	5.18	127.22	120.28
6	C	402	ASP	N-CA-C	-5.18	105.53	111.07
7	M	1436	LYS	CA-C-N	5.18	127.49	120.44
7	M	1436	LYS	C-N-CA	5.18	127.49	120.44
9	Q	227	GLN	O-C-N	5.18	128.06	122.15
7	O	162	ILE	CB-CA-C	-5.18	105.34	111.97
9	Q	361	LYS	CA-C-N	5.18	127.22	120.28
9	Q	361	LYS	C-N-CA	5.18	127.22	120.28
3	1	889	LYS	CA-C-O	5.18	125.91	120.42
3	1	1061	ASP	CA-CB-CG	5.18	117.78	112.60
3	1	1107	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
5	K	457	ASN	CA-C-O	5.18	125.90	119.79
8	P	1183	PHE	N-CA-C	5.18	116.93	111.28
8	P	1598	LEU	CA-C-N	5.18	127.17	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	1598	LEU	C-N-CA	5.18	127.17	120.44
8	P	1610	LYS	CA-C-N	5.18	127.64	120.29
8	P	1610	LYS	C-N-CA	5.18	127.64	120.29
9	S	452	PRO	CA-C-O	-5.18	115.51	121.36
6	F	324	GLN	CA-C-N	5.18	127.17	120.44
6	F	324	GLN	C-N-CA	5.18	127.17	120.44
2	0	1241	GLY	CA-C-N	5.18	128.18	120.31
2	0	1241	GLY	C-N-CA	5.18	128.18	120.31
2	Y	163	GLU	CA-C-N	5.18	127.22	120.28
2	Y	163	GLU	C-N-CA	5.18	127.22	120.28
2	Y	1004	PHE	N-CA-C	5.18	117.00	111.36
3	Z	389	ASN	N-CA-C	5.18	117.00	111.36
6	C	461	HIS	CG-CD2-NE2	5.18	112.38	107.20
5	E	288	ILE	CA-C-O	5.18	126.27	119.85
7	M	543	VAL	CA-C-N	5.18	127.22	120.28
7	M	543	VAL	C-N-CA	5.18	127.22	120.28
8	N	152	TYR	O-C-N	-5.18	116.63	122.12
8	N	1165	ILE	N-CA-C	5.18	115.40	110.53
9	Q	476	ASN	O-C-N	5.18	128.46	122.19
3	1	1233	VAL	CA-C-N	5.18	127.08	120.56
3	1	1233	VAL	C-N-CA	5.18	127.08	120.56
3	1	1249	PRO	N-CA-CB	5.18	108.69	103.25
3	1	1327	ARG	N-CA-CB	5.18	117.82	110.16
7	O	698	ASN	OD1-CG-ND2	5.18	127.78	122.60
9	S	156	LEU	O-C-N	-5.18	116.74	122.07
9	S	526	LYS	N-CA-C	-5.18	101.44	109.72
6	F	313	ALA	CB-CA-C	-5.17	102.20	110.79
7	M	336	LYS	CA-C-O	5.17	125.48	119.32
8	N	1390	SER	CA-C-N	5.17	127.21	120.28
8	N	1390	SER	C-N-CA	5.17	127.21	120.28
2	0	195	ILE	N-CA-C	5.17	116.52	110.62
6	L	313	ALA	CB-CA-C	-5.17	102.20	110.79
3	Z	654	SER	N-CA-CB	-5.17	103.04	110.44
3	Z	767	ASN	CA-CB-CG	-5.17	107.43	112.60
3	Z	1233	VAL	CA-C-N	5.17	127.08	120.56
3	Z	1233	VAL	C-N-CA	5.17	127.08	120.56
5	B	521	THR	CA-C-N	5.17	127.64	120.29
5	B	521	THR	C-N-CA	5.17	127.64	120.29
8	N	1435	ASP	CA-CB-CG	-5.17	107.43	112.60
9	R	384	VAL	CA-C-O	5.17	126.33	120.95
3	1	512	ARG	NE-CZ-NH2	-5.17	114.54	119.20
5	K	378	HIS	ND1-CE1-NE2	5.17	113.57	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	716	LEU	N-CA-CB	5.17	117.72	110.12
4	D	772	VAL	N-CA-C	5.17	119.69	112.50
6	F	448	THR	CA-C-O	-5.17	114.94	120.42
7	M	182	ARG	CD-NE-CZ	-5.17	117.16	124.40
7	M	1552	PHE	N-CA-CB	5.17	118.27	110.30
7	M	1657	ASP	CA-CB-CG	-5.17	107.43	112.60
3	1	357	LEU	O-C-N	5.17	129.27	123.27
5	K	377	ASN	CA-CB-CG	-5.17	107.43	112.60
7	O	593	THR	CA-C-N	5.17	127.21	120.28
7	O	593	THR	C-N-CA	5.17	127.21	120.28
7	O	655	LYS	CA-C-N	5.17	127.55	120.46
7	O	655	LYS	C-N-CA	5.17	127.55	120.46
7	O	1631	ASN	CA-C-N	5.17	127.47	120.38
7	O	1631	ASN	C-N-CA	5.17	127.47	120.38
8	P	1166	VAL	O-C-N	-5.17	116.50	121.83
9	S	837	VAL	CA-C-O	-5.17	113.44	119.85
9	T	154	GLU	N-CA-CB	5.17	119.23	110.49
3	Z	849	PHE	CA-C-N	5.17	128.17	120.31
3	Z	849	PHE	C-N-CA	5.17	128.17	120.31
8	N	497	ILE	CA-CB-CG1	5.17	119.19	110.40
11	V	287	HIS	CG-CD2-NE2	5.17	112.37	107.20
3	1	380	ASP	CA-CB-CG	5.17	117.77	112.60
7	O	182	ARG	CD-NE-CZ	-5.17	117.16	124.40
9	S	625	GLU	O-C-N	-5.17	116.26	122.15
2	Y	1195	LYS	O-C-N	-5.17	116.64	122.12
8	N	1112	PHE	CA-C-O	-5.17	113.02	119.38
9	Q	705	GLN	N-CA-C	-5.17	107.49	112.97
7	O	822	CYS	CA-C-O	-5.17	114.80	120.17
8	P	695	LEU	CB-CA-C	-5.17	102.54	110.81
9	S	582	GLU	O-C-N	5.17	127.67	122.09
7	M	716	LEU	N-CA-CB	5.17	117.72	110.12
9	Q	518	ILE	N-CA-C	-5.17	99.07	107.28
2	0	1195	LYS	O-C-N	-5.17	116.64	122.12
7	O	342	TYR	CA-CB-CG	-5.17	104.60	113.90
7	O	343	ASP	CA-CB-CG	5.17	117.77	112.60
7	M	5	ALA	N-CA-CB	5.17	118.82	110.40
4	J	772	VAL	N-CA-C	5.17	119.68	112.50
8	P	207	ASP	CA-C-N	5.17	127.54	120.46
8	P	207	ASP	C-N-CA	5.17	127.54	120.46
9	S	361	LYS	CA-C-N	5.17	127.20	120.28
9	S	361	LYS	C-N-CA	5.17	127.20	120.28
2	Y	1333	HIS	CE1-NE2-CD2	-5.16	103.84	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z	715	LEU	CA-C-O	-5.16	115.40	120.82
6	C	270	PRO	CB-CA-C	5.16	119.91	110.10
8	N	205	PRO	N-CA-C	5.16	119.32	111.11
8	N	729	HIS	ND1-CG-CD2	-5.16	100.94	106.10
7	O	228	PHE	CB-CG-CD1	-5.16	111.92	120.70
8	P	496	LEU	N-CA-CB	5.16	118.29	109.87
8	P	733	ARG	O-C-N	5.16	128.04	122.15
8	P	1194	LEU	CA-C-O	-5.16	115.40	120.82
8	P	1573	PRO	CA-C-O	-5.16	115.70	121.23
4	D	762	LEU	N-CA-C	5.16	117.30	111.11
2	0	1160	HIS	CA-C-O	-5.16	114.95	120.42
3	1	1055	PHE	CA-C-O	-5.16	115.40	120.82
7	O	545	HIS	ND1-CE1-NE2	5.16	113.56	108.40
8	P	347	THR	CA-CB-OG1	5.16	117.34	109.60
9	T	787	HIS	CB-CG-ND1	5.16	130.44	122.70
2	Y	860	ILE	CA-C-N	5.16	130.17	121.14
2	Y	860	ILE	C-N-CA	5.16	130.17	121.14
3	Z	842	GLU	O-C-N	5.16	127.59	122.12
6	F	286	LYS	CA-C-N	5.16	127.20	120.28
6	F	286	LYS	C-N-CA	5.16	127.20	120.28
7	M	18	GLY	O-C-N	-5.16	116.29	122.33
7	M	1349	PHE	CA-C-N	5.16	127.20	120.28
7	M	1349	PHE	C-N-CA	5.16	127.20	120.28
7	M	1542	ASN	CA-C-N	5.16	127.15	120.44
7	M	1542	ASN	C-N-CA	5.16	127.15	120.44
9	Q	507	ALA	CA-C-O	-5.16	115.08	120.55
2	0	950	LYS	N-CA-CB	5.16	117.71	110.12
4	G	767	VAL	CA-C-O	5.16	125.82	120.25
4	J	803	ALA	N-CA-CB	5.16	117.80	110.16
5	K	301	PRO	N-CA-CB	-5.16	97.83	103.25
7	O	514	CYS	N-CA-C	5.16	116.91	111.28
7	O	575	SER	CA-C-N	5.16	127.62	120.29
7	O	575	SER	C-N-CA	5.16	127.62	120.29
8	P	140	LYS	N-CA-C	5.16	116.59	111.07
8	P	792	GLN	CA-C-N	5.16	129.73	122.09
8	P	792	GLN	C-N-CA	5.16	129.73	122.09
9	S	260	LEU	O-C-N	5.16	127.59	122.12
9	S	422	ARG	N-CA-C	-5.16	99.92	108.75
2	Y	1257	GLN	N-CA-CB	5.16	117.79	110.16
7	M	279	PHE	N-CA-CB	5.16	117.70	110.12
7	M	698	ASN	OD1-CG-ND2	5.16	127.76	122.60
9	Q	473	ARG	NE-CZ-NH1	5.16	126.66	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	Q	683	THR	CA-CB-OG1	5.16	117.34	109.60
9	R	120	ASN	CA-C-N	5.16	127.06	120.56
9	R	120	ASN	C-N-CA	5.16	127.06	120.56
3	1	237	PHE	CA-CB-CG	-5.16	108.64	113.80
7	O	279	PHE	N-CA-CB	5.16	117.70	110.12
7	O	1231	TYR	CA-C-O	5.16	126.37	120.54
7	O	1490	ARG	N-CA-C	5.16	117.64	111.71
8	P	1305	ASN	O-C-N	-5.16	117.20	123.13
3	Z	1333	GLU	N-CA-C	-5.16	102.15	110.14
5	E	325	THR	N-CA-C	5.16	116.90	111.28
7	M	228	PHE	CB-CG-CD1	-5.16	111.93	120.70
9	R	334	TRP	N-CA-C	5.16	116.98	111.36
7	O	1253	ARG	CA-C-O	-5.16	114.95	120.42
9	T	504	VAL	N-CA-CB	5.16	116.58	110.55
2	Y	461	ARG	O-C-N	5.16	129.34	123.31
2	Y	579	SER	N-CA-C	-5.16	99.89	108.34
3	Z	730	VAL	N-CA-CB	5.16	120.36	111.39
7	M	160	GLN	CB-CG-CD	-5.16	103.83	112.60
5	K	506	ILE	CA-CB-CG1	5.16	119.17	110.40
6	L	286	LYS	CA-C-N	5.16	127.19	120.28
6	L	286	LYS	C-N-CA	5.16	127.19	120.28
6	L	469	SER	CA-C-N	5.16	129.23	120.88
6	L	469	SER	C-N-CA	5.16	129.23	120.88
7	O	897	ASP	CA-CB-CG	5.16	117.76	112.60
8	P	497	ILE	CA-CB-CG1	5.16	119.16	110.40
8	P	871	SER	CB-CA-C	-5.16	99.22	109.79
9	S	35	ALA	N-CA-C	5.16	119.73	112.72
7	M	1522	VAL	CA-C-N	5.15	127.19	120.28
7	M	1522	VAL	C-N-CA	5.15	127.19	120.28
8	N	1278	ILE	N-CA-CB	5.15	116.58	110.55
3	1	139	GLN	OE1-CD-NE2	-5.15	117.45	122.60
7	O	1145	GLY	O-C-N	-5.15	117.19	122.19
8	P	53	GLU	O-C-N	-5.15	116.66	122.12
9	S	712	GLU	N-CA-CB	5.15	117.70	110.12
4	D	809	ASP	CA-CB-CG	5.15	117.75	112.60
7	M	162	ILE	CB-CA-C	-5.15	105.37	111.97
7	M	593	THR	CA-C-N	5.15	127.19	120.28
7	M	593	THR	C-N-CA	5.15	127.19	120.28
9	Q	242	LEU	N-CA-CB	5.15	118.27	110.28
2	0	525	ILE	CA-C-N	5.15	129.42	122.93
2	0	525	ILE	C-N-CA	5.15	129.42	122.93
3	1	1279	THR	CA-CB-OG1	5.15	117.33	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	605	GLU	CB-CA-C	-5.15	102.09	110.85
2	Y	592	TYR	CA-CB-CG	-5.15	104.63	113.90
2	Y	924	ASN	OD1-CG-ND2	5.15	127.75	122.60
7	M	85	GLU	CA-C-O	-5.15	114.05	119.97
7	M	111	GLN	N-CA-C	5.15	116.58	111.07
7	M	1103	GLU	N-CA-C	-5.15	106.77	113.16
9	Q	534	PHE	CA-C-N	5.15	127.49	120.54
9	Q	534	PHE	C-N-CA	5.15	127.49	120.54
9	R	504	VAL	N-CA-CB	5.15	116.58	110.55
6	I	460	LEU	CB-CA-C	-5.15	102.24	110.79
5	K	532	ALA	O-C-N	5.15	128.02	122.15
7	O	538	GLU	CA-C-N	5.15	127.18	120.28
7	O	538	GLU	C-N-CA	5.15	127.18	120.28
8	P	1262	LEU	CA-C-N	5.15	127.18	120.28
8	P	1262	LEU	C-N-CA	5.15	127.18	120.28
9	S	683	THR	CA-CB-OG1	5.15	117.33	109.60
9	T	87	ILE	N-CA-CB	5.15	116.91	110.47
3	Z	749	ARG	CA-C-N	5.15	124.94	119.28
3	Z	749	ARG	C-N-CA	5.15	124.94	119.28
8	N	174	VAL	CA-C-N	5.15	127.18	120.28
8	N	174	VAL	C-N-CA	5.15	127.18	120.28
9	Q	256	SER	N-CA-C	5.15	116.89	111.28
9	R	740	GLU	CA-C-N	5.15	129.32	120.72
9	R	740	GLU	C-N-CA	5.15	129.32	120.72
2	0	486	GLN	N-CA-C	5.15	116.89	111.28
2	0	633	THR	N-CA-CB	5.15	118.10	110.53
9	T	240	SER	CA-C-O	5.15	126.23	120.82
9	T	354	VAL	N-CA-CB	5.15	116.57	110.55
6	C	460	LEU	CB-CA-C	-5.15	102.25	110.79
4	D	803	ALA	N-CA-CB	5.15	117.78	110.16
9	Q	387	SER	CA-C-N	5.15	127.18	120.28
9	Q	387	SER	C-N-CA	5.15	127.18	120.28
7	O	1498	LEU	CA-C-N	5.15	128.13	120.31
7	O	1498	LEU	C-N-CA	5.15	128.13	120.31
8	P	174	VAL	CA-C-N	5.15	127.18	120.28
8	P	174	VAL	C-N-CA	5.15	127.18	120.28
8	P	1371	HIS	CA-C-O	-5.15	113.41	119.48
9	S	242	LEU	N-CA-CB	5.15	118.26	110.28
9	T	740	GLU	CA-C-N	5.15	129.32	120.72
9	T	740	GLU	C-N-CA	5.15	129.32	120.72
8	N	111	HIS	CA-C-N	5.15	127.04	120.56
8	N	111	HIS	C-N-CA	5.15	127.04	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	O	1426	VAL	CA-C-N	5.15	127.60	120.29
7	O	1426	VAL	C-N-CA	5.15	127.60	120.29
8	P	152	TYR	O-C-N	-5.15	116.67	122.12
9	S	787	HIS	CG-CD2-NE2	5.15	112.35	107.20
2	Y	129	SER	N-CA-CB	5.14	119.19	110.49
3	Z	1076	ASP	CA-C-O	-5.14	113.89	120.27
7	M	506	ASN	CA-C-O	-5.14	114.97	120.42
8	N	1162	LEU	O-C-N	5.14	128.02	122.15
9	R	808	ASN	N-CA-CB	5.14	117.53	110.07
2	0	356	ILE	CA-C-N	5.14	127.13	120.44
2	0	356	ILE	C-N-CA	5.14	127.13	120.44
2	0	1199	ILE	CA-C-N	5.14	127.43	120.38
2	0	1199	ILE	C-N-CA	5.14	127.43	120.38
4	J	676	ILE	O-C-N	-5.14	114.77	121.82
8	P	694	ILE	N-CA-C	-5.14	105.48	110.42
8	P	1180	GLN	CA-C-N	5.14	128.01	120.71
8	P	1180	GLN	C-N-CA	5.14	128.01	120.71
8	P	1640	ILE	O-C-N	-5.14	116.88	121.87
9	S	571	LEU	CA-C-N	5.14	127.13	120.44
9	S	571	LEU	C-N-CA	5.14	127.13	120.44
9	T	585	GLU	CA-C-N	5.14	127.17	120.28
9	T	585	GLU	C-N-CA	5.14	127.17	120.28
3	Z	1007	LEU	CA-C-N	5.14	127.50	120.46
3	Z	1007	LEU	C-N-CA	5.14	127.50	120.46
7	M	121	VAL	O-C-N	-5.14	116.88	121.87
8	N	462	SER	CA-C-O	5.14	126.61	120.28
8	N	928	SER	N-CA-C	-5.14	105.75	111.36
8	N	1275	GLU	CA-C-N	5.14	127.59	120.29
8	N	1275	GLU	C-N-CA	5.14	127.59	120.29
9	Q	707	HIS	ND1-CE1-NE2	5.14	113.54	108.40
3	1	364	ARG	CA-C-N	-5.14	115.90	123.00
3	1	364	ARG	C-N-CA	-5.14	115.90	123.00
3	1	654	SER	N-CA-CB	-5.14	103.09	110.44
3	1	1069	GLN	OE1-CD-NE2	5.14	127.74	122.60
7	O	5	ALA	N-CA-CB	5.14	118.78	110.40
7	O	83	LEU	N-CA-C	-5.14	101.78	109.95
7	O	1055	VAL	N-CA-C	5.14	115.86	110.62
9	T	96	LEU	O-C-N	5.14	127.37	122.07
9	T	143	ASN	CA-C-N	5.14	127.13	120.44
9	T	143	ASN	C-N-CA	5.14	127.13	120.44
2	Y	423	ILE	CA-CB-CG2	-5.14	101.76	110.50
4	A	716	THR	N-CA-CB	5.14	117.47	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	821	THR	CA-C-O	5.14	125.88	119.97
2	Y	950	LYS	N-CA-CB	5.14	117.67	110.12
2	Y	1385	PHE	O-C-N	-5.14	116.80	121.17
3	Z	253	VAL	CA-C-N	5.14	128.14	120.95
3	Z	253	VAL	C-N-CA	5.14	128.14	120.95
7	M	1525	LEU	O-C-N	5.14	128.59	122.27
2	0	250	ALA	CB-CA-C	-5.14	100.19	110.42
2	0	423	ILE	CA-CB-CG2	-5.14	101.76	110.50
3	1	1301	SER	N-CA-C	5.14	121.75	110.80
7	O	325	PHE	O-C-N	5.14	127.36	122.07
7	O	1522	VAL	CA-C-N	5.14	127.17	120.28
7	O	1522	VAL	C-N-CA	5.14	127.17	120.28
7	O	1631	ASN	CA-C-O	-5.14	115.42	120.82
8	P	1165	ILE	N-CA-C	5.14	115.36	110.53
8	P	1181	THR	N-CA-CB	5.14	117.59	109.83
8	P	1455	PRO	N-CA-CB	5.14	108.98	103.33
9	S	476	ASN	O-C-N	5.14	128.41	122.19
9	S	707	HIS	ND1-CE1-NE2	5.14	113.54	108.40
9	S	774	LEU	O-C-N	-5.14	116.67	122.12
2	Y	115	ASP	CA-C-O	5.14	125.91	120.10
7	M	545	HIS	ND1-CE1-NE2	5.14	113.54	108.40
3	1	767	ASN	CA-CB-CG	-5.14	107.46	112.60
7	O	1245	LEU	CA-C-O	5.14	126.22	120.82
7	O	1552	PHE	N-CA-CB	5.14	118.21	110.30
3	Z	146	ILE	O-C-N	-5.14	115.25	121.10
3	Z	1189	LYS	O-C-N	5.14	127.36	122.07
8	N	487	SER	O-C-N	-5.14	115.76	122.59
8	N	871	SER	CB-CA-C	-5.14	99.26	109.79
9	Q	462	PHE	CA-C-N	5.14	127.16	120.28
9	Q	462	PHE	C-N-CA	5.14	127.16	120.28
9	Q	665	LEU	CA-C-O	5.14	126.00	120.55
2	0	860	ILE	CA-C-N	5.14	130.13	121.14
2	0	860	ILE	C-N-CA	5.14	130.13	121.14
2	0	1359	ASP	CA-C-N	5.14	127.12	120.44
2	0	1359	ASP	C-N-CA	5.14	127.12	120.44
2	0	1455	TRP	CD2-CE2-CZ2	-5.14	117.26	122.40
3	1	730	VAL	N-CA-CB	5.14	120.33	111.39
4	J	632	LEU	CB-CA-C	-5.14	110.63	116.54
7	O	1145	GLY	CA-C-N	5.14	127.16	120.28
7	O	1145	GLY	C-N-CA	5.14	127.16	120.28
8	P	1131	LYS	CA-C-N	5.14	127.58	120.29
8	P	1131	LYS	C-N-CA	5.14	127.58	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y	1162	TYR	N-CA-C	5.13	116.96	111.36
4	A	771	ASN	OD1-CG-ND2	5.13	127.73	122.60
7	M	83	LEU	N-CA-C	-5.13	101.79	109.95
8	N	120	PRO	N-CA-C	-5.13	101.89	112.47
9	R	438	MET	CG-SD-CE	-5.13	89.60	100.90
9	R	787	HIS	CB-CG-ND1	5.13	130.40	122.70
2	0	381	VAL	CA-CB-CG2	-5.13	101.67	110.40
2	0	417	TYR	N-CA-C	-5.13	106.02	113.21
2	0	625	ALA	N-CA-C	-5.13	106.26	112.88
3	1	1348	LYS	N-CA-C	5.13	116.96	111.36
4	G	716	THR	N-CA-CB	5.13	117.46	110.01
7	O	18	GLY	O-C-N	-5.13	116.32	122.33
8	P	928	SER	N-CA-C	-5.13	105.76	111.36
3	Z	240	ARG	NE-CZ-NH2	-5.13	114.58	119.20
5	B	435	LYS	N-CA-C	-5.13	107.05	113.72
8	N	207	ASP	CA-C-N	5.13	127.49	120.46
8	N	207	ASP	C-N-CA	5.13	127.49	120.46
8	N	496	LEU	N-CA-CB	5.13	118.24	109.87
8	N	1247	PHE	CA-C-N	5.13	127.16	120.28
8	N	1247	PHE	C-N-CA	5.13	127.16	120.28
2	0	483	HIS	ND1-CE1-NE2	5.13	113.53	108.40
3	1	389	ASN	N-CA-C	5.13	116.95	111.36
9	S	518	ILE	N-CA-C	-5.13	99.12	107.28
5	E	301	PRO	N-CA-CB	-5.13	97.86	103.25
5	E	532	ALA	O-C-N	5.13	128.00	122.15
8	N	1305	ASN	O-C-N	-5.13	117.23	123.13
8	N	1377	ASN	OD1-CG-ND2	5.13	127.73	122.60
8	N	1436	GLU	CA-C-O	-5.13	113.88	120.04
9	R	391	HIS	ND1-CE1-NE2	5.13	113.53	108.40
3	1	1189	LYS	O-C-N	5.13	127.36	122.07
6	L	324	GLN	CA-C-N	5.13	127.11	120.44
6	L	324	GLN	C-N-CA	5.13	127.11	120.44
7	O	1149	SER	CB-CA-C	-5.13	102.13	110.85
9	S	79	SER	N-CA-CB	5.13	119.68	110.80
9	T	334	TRP	N-CA-C	5.13	116.95	111.36
11	X	363	PRO	CA-C-N	5.13	127.16	120.28
11	X	363	PRO	C-N-CA	5.13	127.16	120.28
7	M	850	GLN	OE1-CD-NE2	-5.13	117.47	122.60
8	N	821	THR	CA-C-O	5.13	125.87	119.97
2	0	1008	GLU	CA-C-O	-5.13	115.43	120.82
7	O	711	GLN	OE1-CD-NE2	5.13	127.73	122.60
2	Y	168	GLN	N-CA-C	-5.13	108.29	114.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Y	207	MET	CA-C-O	5.13	126.24	120.70
4	A	670	VAL	N-CA-C	-5.13	105.54	110.72
7	M	1358	VAL	CA-C-O	5.13	126.61	121.17
9	R	87	ILE	N-CA-CB	5.13	116.88	110.47
9	R	143	ASN	CA-C-N	5.13	127.11	120.44
9	R	143	ASN	C-N-CA	5.13	127.11	120.44
2	0	115	ASP	CA-C-O	5.13	125.89	120.10
2	0	119	PRO	N-CD-CG	5.13	110.89	103.20
2	0	129	SER	N-CA-CB	5.13	119.16	110.49
2	0	914	TYR	CA-C-N	5.13	127.11	120.44
2	0	914	TYR	C-N-CA	5.13	127.11	120.44
3	1	166	PHE	CA-C-N	5.13	127.47	120.54
3	1	166	PHE	C-N-CA	5.13	127.47	120.54
3	1	614	TYR	CB-CG-CD2	5.13	128.49	120.80
7	O	861	GLN	N-CA-CB	5.13	117.66	110.12
8	P	623	ASP	CB-CA-C	5.13	120.63	110.42
8	P	745	HIS	ND1-CE1-NE2	5.13	113.53	108.40
9	S	246	ASN	OD1-CG-ND2	5.13	127.73	122.60
2	Y	1158	HIS	ND1-CE1-NE2	5.13	113.53	108.40
2	Y	1231	GLU	CA-C-O	-5.13	115.11	120.55
3	Z	357	LEU	O-C-N	5.13	129.22	123.27
3	Z	1301	SER	N-CA-C	5.13	121.72	110.80
4	A	686	ALA	CB-CA-C	-5.13	102.14	110.85
7	M	655	LYS	CA-C-N	5.13	127.48	120.46
7	M	655	LYS	C-N-CA	5.13	127.48	120.46
7	M	1484	ARG	NH1-CZ-NH2	-5.13	112.63	119.30
8	N	623	ASP	CB-CA-C	5.13	120.62	110.42
8	N	733	ARG	O-C-N	5.13	127.99	122.15
2	0	99	LYS	CA-C-O	-5.13	115.05	120.02
2	0	1162	TYR	N-CA-C	5.13	116.95	111.36
3	1	1023	GLN	N-CA-CB	5.13	117.90	110.47
5	H	435	LYS	N-CA-C	-5.13	107.06	113.72
5	E	457	ASN	CA-C-O	5.12	125.84	119.79
8	N	140	LYS	N-CA-C	5.12	116.55	111.07
8	N	694	ILE	N-CA-C	-5.12	105.50	110.42
9	Q	315	LYS	O-C-N	-5.12	115.77	122.59
3	1	253	VAL	CA-C-N	5.12	128.12	120.95
3	1	253	VAL	C-N-CA	5.12	128.12	120.95
9	S	462	PHE	CA-C-N	5.12	127.15	120.28
9	S	462	PHE	C-N-CA	5.12	127.15	120.28
3	Z	139	GLN	OE1-CD-NE2	-5.12	117.48	122.60
7	M	1631	ASN	CA-C-N	5.12	127.40	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	1631	ASN	C-N-CA	5.12	127.40	120.38
8	N	1115	ILE	N-CA-CB	5.12	117.81	111.41
11	V	349	ILE	CA-C-N	5.12	130.38	123.11
11	V	349	ILE	C-N-CA	5.12	130.38	123.11
4	G	686	ALA	CB-CA-C	-5.12	102.14	110.85
5	H	405	ASN	CA-CB-CG	5.12	117.72	112.60
6	L	292	HIS	N-CA-CB	5.12	117.65	110.12
8	P	931	PHE	CA-CB-CG	5.12	118.92	113.80
9	T	438	MET	CG-SD-CE	-5.12	89.63	100.90
3	Z	630	PRO	CA-C-N	5.12	127.10	120.44
3	Z	630	PRO	C-N-CA	5.12	127.10	120.44
3	Z	1023	GLN	N-CA-CB	5.12	117.90	110.47
8	N	1558	GLN	CA-C-N	5.12	127.56	120.29
8	N	1558	GLN	C-N-CA	5.12	127.56	120.29
3	1	119	LYS	N-CA-C	-5.12	105.78	112.23
3	1	1190	GLN	N-CA-CB	5.12	117.44	110.01
4	J	690	GLN	CA-C-O	-5.12	113.75	119.79
4	J	751	LEU	N-CA-C	-5.12	105.75	112.41
7	O	336	LYS	CA-C-O	5.12	125.42	119.32
7	O	1358	VAL	CA-C-O	5.12	126.60	121.17
2	Y	1412	ILE	N-CA-C	-5.12	106.81	111.67
2	0	356	ILE	N-CA-C	-5.12	98.69	109.34
2	0	853	PHE	CA-C-O	-5.12	114.08	119.97
3	1	630	PRO	CA-C-N	5.12	127.10	120.44
3	1	630	PRO	C-N-CA	5.12	127.10	120.44
3	1	1007	LEU	CA-C-N	5.12	127.47	120.46
3	1	1007	LEU	C-N-CA	5.12	127.47	120.46
4	G	714	PHE	CA-CB-CG	5.12	118.92	113.80
4	J	809	ASP	CA-CB-CG	5.12	117.72	112.60
8	P	1371	HIS	ND1-CE1-NE2	5.12	113.52	108.40
9	T	39	LEU	N-CA-C	5.12	121.71	110.80
2	Y	99	LYS	CA-C-O	-5.12	115.06	120.02
2	Y	483	HIS	ND1-CE1-NE2	5.12	113.52	108.40
2	Y	1059	TYR	N-CA-C	-5.12	107.54	112.97
2	Y	1467	SER	CA-C-N	5.12	127.14	120.28
2	Y	1467	SER	C-N-CA	5.12	127.14	120.28
6	F	292	HIS	N-CA-CB	5.12	117.64	110.12
6	F	357	LEU	N-CA-C	-5.12	107.10	113.55
7	M	538	GLU	CA-C-N	5.12	127.14	120.28
7	M	538	GLU	C-N-CA	5.12	127.14	120.28
7	M	1431	ARG	CA-C-O	5.12	125.88	120.10
9	Q	79	SER	N-CA-CB	5.12	119.65	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	R	154	GLU	N-CA-CB	5.12	119.14	110.49
2	0	417	TYR	CA-C-O	5.12	125.34	118.38
2	0	1059	TYR	N-CA-C	-5.12	107.54	112.97
5	H	397	ARG	CA-C-O	-5.12	115.12	120.55
7	O	828	PHE	CB-CA-C	-5.12	102.84	110.88
9	S	219	VAL	CA-C-N	5.12	127.09	120.44
9	S	219	VAL	C-N-CA	5.12	127.09	120.44
9	S	294	MET	CA-C-N	5.12	129.41	122.19
9	S	294	MET	C-N-CA	5.12	129.41	122.19
2	Y	538	SER	N-CA-CB	5.12	119.14	110.49
9	Q	712	GLU	N-CA-CB	5.12	117.64	110.12
2	0	219	PRO	CA-C-N	5.12	127.76	120.49
2	0	219	PRO	C-N-CA	5.12	127.76	120.49
2	0	1004	PHE	N-CA-C	5.12	116.94	111.36
3	1	1370	GLU	CA-C-O	5.12	124.15	118.52
4	A	791	ILE	CA-CB-CG1	5.12	119.09	110.40
6	F	402	ASP	N-CA-CB	5.12	117.64	110.12
7	M	897	ASP	CA-CB-CG	5.12	117.72	112.60
7	M	1541	ASN	N-CA-CB	5.12	117.62	110.56
8	N	347	THR	CA-CB-OG1	5.12	117.27	109.60
2	0	360	THR	N-CA-C	-5.12	101.30	109.23
2	0	474	PRO	CA-C-N	5.12	127.45	120.54
2	0	474	PRO	C-N-CA	5.12	127.45	120.54
3	1	657	ILE	CA-C-N	5.12	127.13	120.28
3	1	657	ILE	C-N-CA	5.12	127.13	120.28
3	1	752	VAL	CA-C-N	5.12	127.14	120.28
3	1	752	VAL	C-N-CA	5.12	127.14	120.28
3	1	1333	GLU	N-CA-C	-5.12	102.21	110.14
4	G	791	ILE	CA-CB-CG1	5.12	119.10	110.40
5	K	348	ILE	N-CA-CB	5.12	119.23	112.27
2	Y	1150	LEU	N-CA-C	-5.11	105.79	111.36
5	B	405	ASN	CA-CB-CG	5.11	117.71	112.60
6	C	281	ASP	CA-CB-CG	5.11	117.71	112.60
7	M	773	LYS	CA-C-N	5.11	127.64	120.28
7	M	773	LYS	C-N-CA	5.11	127.64	120.28
8	N	83	VAL	CA-C-O	5.11	125.77	120.25
8	N	534	GLN	N-CA-C	-5.11	99.45	108.20
7	O	839	SER	CB-CA-C	-5.11	102.30	110.79
9	T	384	VAL	CA-C-O	5.11	126.27	120.95
10	W	324	LYS	CA-C-N	5.11	127.13	120.28
10	W	324	LYS	C-N-CA	5.11	127.13	120.28
2	Y	853	PHE	CA-C-O	-5.11	114.09	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	E	506	ILE	CA-CB-CG1	5.11	119.09	110.40
8	N	23	ASN	CA-C-O	-5.11	115.13	120.55
9	Q	208	LEU	CA-C-N	5.11	127.09	120.44
9	Q	208	LEU	C-N-CA	5.11	127.09	120.44
2	0	461	ARG	O-C-N	5.11	129.29	123.31
2	0	510	GLN	CA-C-N	5.11	127.08	120.44
2	0	510	GLN	C-N-CA	5.11	127.08	120.44
9	T	808	ASN	N-CA-CB	5.11	117.48	110.07
2	Y	356	ILE	N-CA-C	-5.11	98.71	109.34
2	Y	417	TYR	N-CA-C	-5.11	106.06	113.21
3	Z	1348	LYS	N-CA-C	5.11	116.93	111.36
7	M	1253	ARG	CA-C-O	-5.11	115.00	120.42
7	M	1257	LEU	N-CA-C	5.11	117.75	111.82
11	V	371	GLN	CG-CD-NE2	5.11	124.06	116.40
2	0	1412	ILE	N-CA-C	-5.11	106.81	111.67
7	O	1349	PHE	CA-C-N	5.11	127.13	120.28
7	O	1349	PHE	C-N-CA	5.11	127.13	120.28
8	P	462	SER	CA-C-O	5.11	126.57	120.28
6	L	382	LYS	O-C-N	-5.11	116.18	122.11
2	Y	631	GLN	CA-C-O	-5.11	115.46	120.82
2	Y	633	THR	N-CA-CB	5.11	118.04	110.53
2	Y	864	SER	N-CA-C	-5.11	105.95	113.61
4	A	805	ARG	N-CA-C	5.11	116.85	111.28
5	B	323	LEU	CD1-CG-CD2	-5.11	99.56	110.80
7	M	913	TYR	N-CA-CB	5.11	117.63	110.12
8	N	1181	THR	N-CA-CB	5.11	117.54	109.83
9	Q	214	ASN	CB-CA-C	-5.11	102.31	110.79
2	0	852	PHE	CA-C-O	-5.11	115.46	120.82
2	0	1090	GLU	N-CA-C	-5.11	106.83	113.16
2	0	1257	GLN	N-CA-CB	5.11	117.72	110.16
6	I	461	HIS	CG-CD2-NE2	5.11	112.31	107.20
7	O	1361	PHE	CA-C-O	-5.11	115.01	120.42
8	P	729	HIS	ND1-CG-CD2	-5.11	100.99	106.10
9	T	774	LEU	N-CA-C	5.11	116.85	111.28
2	Y	381	VAL	CA-CB-CG2	-5.11	101.72	110.40
5	B	335	TRP	N-CA-C	-5.11	105.63	111.14
7	M	452	LYS	N-CA-CB	5.11	117.63	110.12
7	M	1326	ASN	CA-CB-CG	-5.11	107.50	112.60
9	Q	582	GLU	CA-C-O	-5.11	115.44	120.70
11	V	394	GLN	N-CA-C	5.11	117.74	111.82
2	0	1097	TYR	N-CA-CB	5.11	117.72	110.16
5	H	521	THR	CA-C-N	5.11	127.54	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	H	521	THR	C-N-CA	5.11	127.54	120.29
7	O	859	LYS	CA-C-N	5.11	127.12	120.28
7	O	859	LYS	C-N-CA	5.11	127.12	120.28
3	Z	1190	GLN	N-CA-CB	5.10	117.41	110.01
5	B	397	ARG	CA-C-O	-5.10	115.14	120.55
7	M	325	PHE	O-C-N	5.10	127.33	122.07
7	M	343	ASP	CA-CB-CG	5.10	117.70	112.60
7	M	1512	LEU	CA-C-N	5.10	127.12	120.28
7	M	1512	LEU	C-N-CA	5.10	127.12	120.28
8	N	888	TYR	N-CA-C	5.10	116.84	111.28
8	N	1371	HIS	ND1-CE1-NE2	5.10	113.50	108.40
2	0	1385	PHE	O-C-N	-5.10	116.83	121.17
3	1	258	PHE	N-CA-CB	5.10	118.60	111.15
8	P	159	SER	O-C-N	-5.10	115.99	122.27
8	N	804	GLN	O-C-N	5.10	127.53	122.12
9	Q	571	LEU	CA-C-N	5.10	127.07	120.44
9	Q	571	LEU	C-N-CA	5.10	127.07	120.44
9	Q	697	PHE	N-CA-CB	5.10	118.16	110.30
3	1	233	LEU	N-CA-CB	5.10	119.02	110.85
3	1	739	LYS	CG-CD-CE	5.10	123.04	111.30
7	O	1542	ASN	CA-C-N	5.10	127.07	120.44
7	O	1542	ASN	C-N-CA	5.10	127.07	120.44
8	P	534	GLN	N-CA-C	-5.10	99.47	108.20
8	P	1115	ILE	N-CA-CB	5.10	117.79	111.41
8	P	1649	ASP	N-CA-CB	5.10	118.08	110.22
9	S	697	PHE	N-CA-CB	5.10	118.16	110.30
11	X	366	ALA	N-CA-CB	5.10	117.41	110.01
2	Y	124	ARG	NH1-CZ-NH2	-5.10	112.67	119.30
3	Z	364	ARG	CA-C-N	-5.10	115.96	123.00
3	Z	364	ARG	C-N-CA	-5.10	115.96	123.00
9	Q	410	ALA	CB-CA-C	-5.10	102.87	110.88
2	0	538	SER	N-CA-CB	5.10	119.11	110.49
5	H	335	TRP	N-CA-C	-5.10	105.63	111.14
7	O	160	GLN	CB-CG-CD	-5.10	103.93	112.60
7	O	1499	LEU	CA-C-O	-5.10	114.10	119.97
2	Y	205	ASP	CA-C-N	5.10	130.06	121.14
2	Y	205	ASP	C-N-CA	5.10	130.06	121.14
3	Z	1051	ASN	N-CA-CB	5.10	117.47	109.97
4	A	714	PHE	CA-CB-CG	5.10	118.90	113.80
6	C	344	LEU	N-CA-C	-5.10	106.40	113.18
4	D	680	TYR	O-C-N	5.10	127.39	122.09
5	E	348	ILE	N-CA-CB	5.10	119.20	112.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	295	ARG	N-CA-CB	5.10	118.40	110.80
7	M	839	SER	CB-CA-C	-5.10	102.33	110.79
7	M	1642	LYS	N-CA-CB	5.10	117.54	109.94
8	N	303	GLU	N-CA-CB	5.10	117.62	110.12
8	N	1649	ASP	N-CA-CB	5.10	118.07	110.22
11	V	363	PRO	CA-C-N	5.10	127.11	120.28
11	V	363	PRO	C-N-CA	5.10	127.11	120.28
2	0	631	GLN	CA-C-O	-5.10	115.47	120.82
6	I	344	LEU	N-CA-C	-5.10	106.40	113.18
4	J	769	ILE	CA-C-O	-5.10	115.44	120.85
7	O	714	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
7	O	913	TYR	N-CA-CB	5.10	117.62	110.12
8	P	1558	GLN	CA-C-N	5.10	127.53	120.29
8	P	1558	GLN	C-N-CA	5.10	127.53	120.29
9	S	208	LEU	CA-C-N	5.10	127.07	120.44
9	S	208	LEU	C-N-CA	5.10	127.07	120.44
9	T	214	ASN	CA-CB-CG	-5.10	107.50	112.60
2	Y	1241	GLY	CA-C-N	5.10	128.06	120.31
2	Y	1241	GLY	C-N-CA	5.10	128.06	120.31
6	C	376	LYS	CG-CD-CE	5.10	123.03	111.30
7	M	1286	PHE	CA-C-O	-5.10	115.02	120.42
9	Q	260	LEU	O-C-N	5.10	127.52	122.12
9	R	585	GLU	CA-C-N	5.10	127.11	120.28
9	R	585	GLU	C-N-CA	5.10	127.11	120.28
7	O	859	LYS	N-CA-C	5.10	116.84	111.28
9	S	214	ASN	CB-CA-C	-5.10	102.33	110.79
9	T	560	ILE	N-CA-C	-5.10	104.90	112.04
2	Y	1455	TRP	CD2-CE2-CZ2	-5.10	117.30	122.40
10	U	311	ASP	CA-C-O	5.10	124.33	119.08
6	L	391	LEU	N-CA-CB	5.10	117.70	110.16
8	P	120	PRO	N-CA-C	-5.10	101.97	112.47
9	S	66	TYR	CA-C-N	5.10	127.11	120.28
9	S	66	TYR	C-N-CA	5.10	127.11	120.28
2	Y	360	THR	N-CA-C	-5.09	101.33	109.23
2	Y	1287	SER	CA-C-N	5.09	131.27	121.54
2	Y	1287	SER	C-N-CA	5.09	131.27	121.54
4	D	690	GLN	CA-C-O	-5.09	113.78	119.79
5	E	316	VAL	N-CA-C	-5.09	102.17	108.89
7	M	1499	LEU	CA-C-O	-5.09	114.11	119.97
8	N	87	PRO	CA-C-N	5.09	127.53	120.29
8	N	87	PRO	C-N-CA	5.09	127.53	120.29
9	R	560	ILE	N-CA-C	-5.09	104.91	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	0	160	ILE	CB-CA-C	5.09	119.02	112.14
6	I	281	ASP	CA-CB-CG	5.09	117.69	112.60
8	P	979	ASN	N-CA-C	-5.09	106.81	112.57
8	P	1176	PRO	CA-C-N	5.09	128.00	120.82
8	P	1176	PRO	C-N-CA	5.09	128.00	120.82
2	Y	1201	TRP	N-CA-C	-5.09	105.81	112.23
7	M	711	GLN	OE1-CD-NE2	5.09	127.69	122.60
7	M	1500	ASN	CA-CB-CG	-5.09	107.51	112.60
7	M	1675	THR	CA-C-O	5.09	125.95	120.55
8	N	966	GLY	CA-C-N	5.09	127.52	120.29
8	N	966	GLY	C-N-CA	5.09	127.52	120.29
5	K	310	ALA	O-C-N	5.09	128.88	122.92
6	L	402	ASP	N-CA-CB	5.09	117.61	110.12
7	O	1541	ASN	N-CA-CB	5.09	117.59	110.56
8	P	1300	GLY	N-CA-C	5.09	121.50	113.86
3	Z	739	LYS	CG-CD-CE	5.09	123.01	111.30
3	Z	1279	THR	CA-CB-OG1	5.09	117.24	109.60
4	D	664	SER	N-CA-CB	5.09	117.60	110.12
7	M	1231	TYR	CA-C-O	5.09	126.29	120.54
7	M	1366	ARG	NE-CZ-NH2	-5.09	114.62	119.20
2	0	864	SER	N-CA-C	-5.09	105.97	113.61
4	G	805	ARG	N-CA-C	5.09	116.83	111.28
6	I	443	VAL	CA-C-N	5.09	127.08	120.56
6	I	443	VAL	C-N-CA	5.09	127.08	120.56
5	K	384	THR	N-CA-CB	5.09	118.70	110.40
7	O	606	VAL	CA-C-N	5.09	126.97	120.56
7	O	606	VAL	C-N-CA	5.09	126.97	120.56
7	O	1341	ASP	O-C-N	-5.09	116.59	122.09
7	O	1365	ASN	CB-CG-ND2	-5.09	108.76	116.40
8	P	413	GLU	N-CA-C	5.09	116.52	111.07
2	Y	417	TYR	CA-C-O	5.09	125.30	118.38
2	Y	1398	PHE	CB-CA-C	-5.09	102.34	110.79
7	M	1365	ASN	CB-CG-ND2	-5.09	108.77	116.40
3	1	842	GLU	O-C-N	5.09	127.52	122.12
7	O	277	LEU	CA-C-N	5.09	127.65	120.42
7	O	277	LEU	C-N-CA	5.09	127.65	120.42
7	O	1286	PHE	CA-C-O	-5.09	115.03	120.42
8	P	1496	SER	CB-CA-C	-5.09	103.06	110.95
9	S	507	ALA	CA-C-O	-5.09	115.15	120.55
7	M	530	VAL	N-CA-C	5.09	115.86	110.72
7	M	713	PHE	CB-CG-CD2	5.09	129.35	120.70
7	M	1132	GLU	CA-C-O	-5.09	115.03	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	N	792	GLN	CA-C-N	5.09	129.62	122.09
8	N	792	GLN	C-N-CA	5.09	129.62	122.09
3	1	749	ARG	CA-C-N	5.09	124.88	119.28
3	1	749	ARG	C-N-CA	5.09	124.88	119.28
7	O	1097	TYR	N-CA-C	5.09	116.83	111.28
9	S	685	PRO	CB-CA-C	-5.09	104.22	112.62
3	Z	1137	ALA	CA-C-O	-5.09	115.48	120.82
4	D	769	ILE	CA-C-O	-5.09	115.46	120.85
6	F	391	LEU	N-CA-CB	5.09	117.69	110.16
7	M	859	LYS	N-CA-C	5.09	116.83	111.28
8	N	425	LEU	O-C-N	-5.09	116.73	122.12
9	Q	280	GLN	CB-CG-CD	-5.09	103.95	112.60
9	Q	530	ARG	CA-C-N	5.09	128.07	120.95
9	Q	530	ARG	C-N-CA	5.09	128.07	120.95
9	R	96	LEU	O-C-N	5.09	127.31	122.07
7	O	1352	GLU	CB-CA-C	-5.09	102.35	110.79
9	T	320	TRP	CG-CD2-CE3	-5.09	128.81	133.90
11	X	371	GLN	CG-CD-NE2	5.09	124.03	116.40
7	M	1324	ARG	CB-CA-C	-5.08	102.35	110.79
2	0	522	ALA	CA-C-N	5.08	128.43	120.75
2	0	522	ALA	C-N-CA	5.08	128.43	120.75
2	0	592	TYR	CA-CB-CG	-5.08	104.75	113.90
7	O	607	ILE	CA-C-N	5.08	127.09	120.28
7	O	607	ILE	C-N-CA	5.08	127.09	120.28
9	S	315	LYS	O-C-N	-5.08	115.83	122.59
2	Y	243	PHE	N-CA-CB	5.08	119.68	110.83
3	Z	729	PHE	N-CA-C	-5.08	100.89	109.07
3	Z	903	CYS	O-C-N	5.08	127.51	122.12
3	Z	1023	GLN	OE1-CD-NE2	-5.08	117.52	122.60
3	Z	1388	HIS	ND1-CE1-NE2	5.08	113.48	108.40
5	E	310	ALA	O-C-N	5.08	128.87	122.92
8	N	413	GLU	N-CA-C	5.08	116.51	111.07
8	N	1300	GLY	N-CA-C	5.08	121.48	113.86
8	N	1574	LYS	CA-C-N	5.08	129.34	122.07
8	N	1574	LYS	C-N-CA	5.08	129.34	122.07
9	Q	685	PRO	CB-CA-C	-5.08	104.23	112.62
2	0	1333	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
4	G	670	VAL	N-CA-C	-5.08	105.58	110.72
4	J	664	SER	N-CA-CB	5.08	117.59	110.12
7	O	641	GLU	N-CA-C	5.08	116.90	111.36
8	P	425	LEU	O-C-N	-5.08	116.73	122.12
8	P	1344	PHE	CA-C-N	5.08	127.86	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	1344	PHE	C-N-CA	5.08	127.86	120.79
10	W	311	ASP	CA-C-O	5.08	124.31	119.08
11	X	394	GLN	N-CA-C	5.08	117.72	111.82
2	Y	160	ILE	CB-CA-C	5.08	119.00	112.14
2	Y	1090	GLU	N-CA-C	-5.08	106.86	113.16
3	Z	929	ASP	CA-C-O	-5.08	115.16	120.55
7	M	828	PHE	CB-CA-C	-5.08	102.90	110.88
9	Q	605	GLU	CB-CA-C	-5.08	102.21	110.85
2	0	287	GLN	N-CA-C	-5.08	106.33	112.88
4	J	800	HIS	N-CA-C	-5.08	107.25	113.50
8	P	808	THR	CA-C-O	-5.08	115.09	120.02
8	P	976	PHE	N-CA-C	-5.08	102.96	110.48
11	X	349	ILE	CA-C-N	5.08	130.33	123.11
11	X	349	ILE	C-N-CA	5.08	130.33	123.11
7	M	606	VAL	CA-C-N	5.08	126.96	120.56
7	M	606	VAL	C-N-CA	5.08	126.96	120.56
8	N	53	GLU	O-C-N	-5.08	116.73	122.12
9	Q	55	GLN	CA-C-N	5.08	127.50	120.29
9	Q	55	GLN	C-N-CA	5.08	127.50	120.29
5	H	347	THR	CA-C-N	-5.08	115.33	123.46
5	H	347	THR	C-N-CA	-5.08	115.33	123.46
7	O	295	ARG	N-CA-CB	5.08	118.37	110.80
2	Y	89	HIS	N-CA-C	5.08	116.84	110.24
2	Y	1359	ASP	CA-C-N	5.08	127.04	120.44
2	Y	1359	ASP	C-N-CA	5.08	127.04	120.44
8	N	745	HIS	ND1-CE1-NE2	5.08	113.48	108.40
8	N	979	ASN	N-CA-C	-5.08	106.83	112.57
8	N	991	LYS	CA-C-O	-5.08	113.14	119.18
10	U	324	LYS	CA-C-N	5.08	127.08	120.28
10	U	324	LYS	C-N-CA	5.08	127.08	120.28
2	0	205	ASP	CA-C-N	5.08	130.03	121.14
2	0	205	ASP	C-N-CA	5.08	130.03	121.14
3	1	867	LEU	N-CA-CB	5.08	117.68	110.06
7	O	1332	PHE	N-CA-CB	5.08	117.68	110.06
7	O	1675	THR	CA-C-O	5.08	125.93	120.55
8	P	87	PRO	CA-C-N	5.08	127.50	120.29
8	P	87	PRO	C-N-CA	5.08	127.50	120.29
8	P	119	ASN	CA-C-O	-5.08	115.63	119.59
8	P	1070	LYS	N-CA-CB	5.08	117.38	110.01
8	P	1441	GLN	N-CA-CB	5.08	117.58	110.12
8	P	1493	ASN	CA-CB-CG	-5.08	107.52	112.60
9	S	651	ASP	CA-C-N	5.08	127.42	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	S	651	ASP	C-N-CA	5.08	127.42	120.46
2	0	1237	SER	CA-C-N	5.08	127.08	120.28
2	0	1237	SER	C-N-CA	5.08	127.08	120.28
2	0	1398	PHE	CB-CA-C	-5.08	102.36	110.79
7	O	773	LYS	CA-C-N	5.08	127.59	120.28
7	O	773	LYS	C-N-CA	5.08	127.59	120.28
7	O	1165	ILE	N-CA-C	-5.08	105.44	110.62
9	S	737	SER	O-C-N	5.08	127.50	122.12
3	Z	664	PHE	CA-CB-CG	5.08	118.88	113.80
5	B	347	THR	CA-C-N	-5.08	115.34	123.46
5	B	347	THR	C-N-CA	-5.08	115.34	123.46
8	N	1441	GLN	N-CA-CB	5.08	117.58	110.12
2	0	281	ARG	N-CA-CB	5.08	117.72	110.06
2	0	1287	SER	CA-C-N	5.08	131.24	121.54
2	0	1287	SER	C-N-CA	5.08	131.24	121.54
7	O	1525	LEU	O-C-N	5.08	128.51	122.27
9	S	207	ILE	CA-C-N	5.08	127.08	120.28
9	S	207	ILE	C-N-CA	5.08	127.08	120.28
9	S	530	ARG	CA-C-N	5.08	128.06	120.95
9	S	530	ARG	C-N-CA	5.08	128.06	120.95
3	Z	233	LEU	N-CA-CB	5.07	118.97	110.85
4	D	674	GLU	CA-C-O	5.07	126.33	120.90
7	M	594	ALA	O-C-N	5.07	127.50	122.12
8	N	395	SER	O-C-N	5.07	127.94	122.15
8	N	1097	LEU	CA-C-N	5.07	128.02	120.31
8	N	1097	LEU	C-N-CA	5.07	128.02	120.31
8	N	1371	HIS	CA-C-O	-5.07	113.49	119.48
11	V	366	ALA	N-CA-CB	5.07	117.37	110.01
6	L	459	VAL	O-C-N	-5.07	116.95	121.87
7	O	1063	ILE	O-C-N	5.07	128.04	122.76
9	S	256	SER	N-CA-C	5.07	116.81	111.28
8	N	575	SER	CA-C-O	-5.07	115.15	120.63
8	N	921	SER	O-C-N	5.07	128.51	122.27
9	R	316	ALA	N-CA-C	-5.07	104.88	112.54
2	0	89	HIS	N-CA-C	5.07	116.83	110.24
2	0	974	ASN	CA-C-N	5.07	127.41	120.46
2	0	974	ASN	C-N-CA	5.07	127.41	120.46
7	O	470	ASP	CA-C-O	-5.07	115.17	120.55
3	Z	589	VAL	CA-C-N	5.07	127.58	120.28
3	Z	589	VAL	C-N-CA	5.07	127.58	120.28
6	C	443	VAL	CA-C-N	5.07	127.05	120.56
6	C	443	VAL	C-N-CA	5.07	127.05	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	641	GLU	N-CA-C	5.07	116.89	111.36
2	0	243	PHE	N-CA-CB	5.07	119.65	110.83
3	1	589	VAL	CA-C-N	5.07	127.58	120.28
3	1	589	VAL	C-N-CA	5.07	127.58	120.28
6	L	357	LEU	N-CA-C	-5.07	107.16	113.55
7	O	541	LEU	CA-C-N	5.07	127.08	120.28
7	O	541	LEU	C-N-CA	5.07	127.08	120.28
8	P	1623	GLU	N-CA-C	-5.07	105.94	111.82
7	M	277	LEU	CA-C-N	5.07	127.62	120.42
7	M	277	LEU	C-N-CA	5.07	127.62	120.42
8	N	591	MET	N-CA-C	5.07	116.49	111.07
7	O	713	PHE	CB-CG-CD2	5.07	129.32	120.70
2	Y	685	VAL	CB-CA-C	5.07	118.46	111.97
4	D	751	LEU	N-CA-C	-5.07	105.82	112.41
7	M	607	ILE	CA-C-N	5.07	127.07	120.28
7	M	607	ILE	C-N-CA	5.07	127.07	120.28
7	M	809	LEU	N-CA-CB	5.07	118.26	110.61
8	N	512	GLU	N-CA-C	-5.07	107.10	113.28
8	N	1131	LYS	CA-C-N	5.07	127.49	120.29
8	N	1131	LYS	C-N-CA	5.07	127.49	120.29
9	R	253	LEU	CA-C-N	5.07	127.07	120.28
9	R	253	LEU	C-N-CA	5.07	127.07	120.28
9	R	320	TRP	CG-CD2-CE3	-5.07	128.83	133.90
9	R	465	ILE	CA-C-N	5.07	126.94	120.56
9	R	465	ILE	C-N-CA	5.07	126.94	120.56
2	0	124	ARG	NH1-CZ-NH2	-5.07	112.71	119.30
6	L	454	ALA	O-C-N	5.07	128.15	122.22
7	O	809	LEU	N-CA-CB	5.07	118.26	110.61
7	O	1512	LEU	CA-C-N	5.07	127.07	120.28
7	O	1512	LEU	C-N-CA	5.07	127.07	120.28
7	O	1522	VAL	CA-C-O	-5.07	115.68	120.95
8	P	921	SER	O-C-N	5.07	128.50	122.27
8	P	1377	ASN	OD1-CG-ND2	5.07	127.67	122.60
9	T	465	ILE	CA-C-N	5.07	126.94	120.56
9	T	465	ILE	C-N-CA	5.07	126.94	120.56
2	Y	914	TYR	CA-C-N	5.07	127.03	120.44
2	Y	914	TYR	C-N-CA	5.07	127.03	120.44
3	Z	1249	PRO	N-CA-CB	5.07	108.57	103.25
8	N	350	ALA	CA-C-N	5.07	127.48	120.29
8	N	350	ALA	C-N-CA	5.07	127.48	120.29
8	N	1180	GLN	CA-C-N	5.07	127.90	120.71
8	N	1180	GLN	C-N-CA	5.07	127.90	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	553	ILE	N-CA-CB	5.07	118.28	111.90
8	P	1574	LYS	CA-C-N	5.07	129.31	122.07
8	P	1574	LYS	C-N-CA	5.07	129.31	122.07
5	E	329	HIS	CE1-NE2-CD2	-5.06	103.94	109.00
7	M	759	ASP	CA-C-O	-5.06	113.69	119.41
2	0	1460	ARG	NE-CZ-NH1	5.06	126.56	121.50
7	O	804	ALA	CA-C-O	5.06	126.88	121.16
8	P	783	PHE	N-CA-CB	5.06	118.08	110.53
9	S	280	GLN	CB-CG-CD	-5.06	103.99	112.60
2	Y	309	CYS	N-CA-CB	5.06	119.31	110.81
3	Z	1291	LYS	O-C-N	5.06	127.49	122.12
6	C	456	ARG	NE-CZ-NH2	5.06	123.76	119.20
7	M	1341	ASP	O-C-N	-5.06	116.62	122.09
8	N	34	ALA	CA-C-N	5.06	127.48	120.29
8	N	34	ALA	C-N-CA	5.06	127.48	120.29
9	R	69	ALA	CA-C-N	5.06	127.02	120.44
9	R	69	ALA	C-N-CA	5.06	127.02	120.44
3	1	1291	LYS	O-C-N	5.06	127.49	122.12
4	J	653	SER	N-CA-CB	5.06	117.65	110.16
7	O	530	VAL	N-CA-C	5.06	115.83	110.72
7	O	1324	ARG	CB-CA-C	-5.06	102.39	110.79
7	O	1431	ARG	CA-C-O	5.06	125.82	120.10
8	P	1417	THR	CA-C-O	5.06	126.14	120.82
9	T	120	ASN	CA-C-N	5.06	126.94	120.56
9	T	120	ASN	C-N-CA	5.06	126.94	120.56
9	T	755	LYS	CA-C-N	5.06	127.06	120.28
9	T	755	LYS	C-N-CA	5.06	127.06	120.28
6	C	376	LYS	N-CA-C	5.06	117.45	111.33
6	F	382	LYS	O-C-N	-5.06	116.24	122.11
7	M	859	LYS	CA-C-N	5.06	127.06	120.28
7	M	859	LYS	C-N-CA	5.06	127.06	120.28
8	N	931	PHE	CA-CB-CG	5.06	118.86	113.80
9	Q	219	VAL	CA-C-N	5.06	127.02	120.44
9	Q	219	VAL	C-N-CA	5.06	127.02	120.44
9	R	291	LYS	N-CA-C	5.06	116.80	111.28
9	T	316	ALA	N-CA-C	-5.06	104.90	112.54
2	Y	219	PRO	CA-C-N	5.06	127.67	120.49
2	Y	219	PRO	C-N-CA	5.06	127.67	120.49
3	Z	867	LEU	N-CA-CB	5.06	117.65	110.06
7	M	251	ASP	N-CA-C	5.06	116.80	111.28
7	M	529	MET	CA-C-N	5.06	127.60	120.42
7	M	529	MET	C-N-CA	5.06	127.60	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	1165	ILE	N-CA-C	-5.06	105.46	110.62
8	N	159	SER	O-C-N	-5.06	116.05	122.27
8	N	1493	ASN	CA-CB-CG	-5.06	107.54	112.60
2	Y	287	GLN	N-CA-C	-5.06	106.36	112.88
2	Y	775	LEU	CA-C-N	5.06	127.06	120.28
2	Y	775	LEU	C-N-CA	5.06	127.06	120.28
3	Z	156	ASN	O-C-N	-5.06	117.25	122.96
7	M	714	HIS	CE1-NE2-CD2	-5.06	103.94	109.00
7	M	1149	SER	CB-CA-C	-5.06	102.25	110.85
2	0	775	LEU	CA-C-N	5.06	127.06	120.28
2	0	775	LEU	C-N-CA	5.06	127.06	120.28
3	1	664	PHE	CA-CB-CG	5.06	118.86	113.80
7	O	1407	ILE	CB-CA-C	-5.06	105.50	111.97
8	P	1117	GLY	CA-C-N	5.06	129.32	122.19
8	P	1117	GLY	C-N-CA	5.06	129.32	122.19
9	T	73	LEU	CA-C-N	5.06	127.06	120.28
9	T	73	LEU	C-N-CA	5.06	127.06	120.28
2	Y	193	TRP	N-CA-C	-5.06	101.51	109.50
8	N	685	TYR	N-CA-CB	5.06	121.95	113.10
2	0	309	CYS	N-CA-CB	5.06	119.31	110.81
2	0	632	TYR	CB-CG-CD2	5.06	128.38	120.80
9	S	214	ASN	N-CA-CB	5.06	117.55	110.12
2	Y	522	ALA	CA-C-N	5.05	128.38	120.75
2	Y	522	ALA	C-N-CA	5.05	128.38	120.75
2	Y	658	ILE	N-CA-CB	5.05	116.46	110.55
3	Z	119	LYS	N-CA-C	-5.05	105.86	112.23
4	D	653	SER	N-CA-CB	5.05	117.64	110.16
7	M	24	LEU	CA-C-O	5.05	125.78	120.42
7	M	804	ALA	CA-C-O	5.05	126.87	121.16
8	N	1070	LYS	N-CA-CB	5.05	117.34	110.01
9	R	354	VAL	CA-C-N	5.05	127.05	120.28
9	R	354	VAL	C-N-CA	5.05	127.05	120.28
4	J	673	GLY	CA-C-O	5.05	126.02	120.66
7	O	251	ASP	N-CA-C	5.05	116.79	111.28
8	P	395	SER	O-C-N	5.05	127.91	122.15
8	P	1162	LEU	O-C-N	5.05	127.91	122.15
9	T	811	ARG	NE-CZ-NH2	-5.05	114.65	119.20
11	X	380	SER	CA-C-N	5.05	132.23	122.07
11	X	380	SER	C-N-CA	5.05	132.23	122.07
2	Y	1097	TYR	N-CA-CB	5.05	117.64	110.16
2	Y	1335	VAL	CA-C-N	5.05	126.93	120.56
2	Y	1335	VAL	C-N-CA	5.05	126.93	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	702	ARG	N-CA-C	-5.05	106.28	112.90
9	Q	429	THR	CA-CB-OG1	5.05	117.18	109.60
2	0	187	ASP	N-CA-C	5.05	115.99	108.31
3	1	729	PHE	N-CA-C	-5.05	100.94	109.07
9	T	412	TYR	CB-CA-C	-5.05	102.40	110.79
2	Y	281	ARG	CD-NE-CZ	-5.05	117.33	124.40
3	Z	1055	PHE	CA-C-O	-5.05	115.52	120.82
7	M	72	PHE	CA-C-N	5.05	127.05	120.28
7	M	72	PHE	C-N-CA	5.05	127.05	120.28
8	N	1593	HIS	N-CA-CB	5.05	117.55	110.12
9	Q	651	ASP	CA-C-N	5.05	127.38	120.46
9	Q	651	ASP	C-N-CA	5.05	127.38	120.46
2	0	908	SER	CA-C-O	-5.05	115.20	120.55
2	0	1201	TRP	N-CA-C	-5.05	105.87	112.23
3	1	993	PRO	CA-C-N	5.05	131.18	121.18
3	1	993	PRO	C-N-CA	5.05	131.18	121.18
7	O	854	GLU	CA-C-N	5.05	131.19	121.54
7	O	854	GLU	C-N-CA	5.05	131.19	121.54
7	O	1089	ASN	CB-CG-ND2	5.05	123.98	116.40
8	P	34	ALA	CA-C-N	5.05	127.46	120.29
8	P	34	ALA	C-N-CA	5.05	127.46	120.29
2	Y	281	ARG	N-CA-CB	5.05	117.68	110.06
5	B	359	ASN	O-C-N	-5.05	116.77	122.12
4	D	756	ASN	N-CA-CB	5.05	117.39	110.07
6	F	314	TYR	CB-CG-CD1	5.05	128.38	120.80
8	N	553	ILE	N-CA-CB	5.05	118.26	111.90
8	N	1496	SER	CB-CA-C	-5.05	103.12	110.95
9	R	157	LYS	N-CA-C	5.05	116.78	111.28
9	R	412	TYR	CB-CA-C	-5.05	102.41	110.79
2	0	138	GLU	O-C-N	-5.05	117.62	123.33
2	0	1158	HIS	ND1-CE1-NE2	5.05	113.45	108.40
7	O	72	PHE	CA-C-N	5.05	127.05	120.28
7	O	72	PHE	C-N-CA	5.05	127.05	120.28
7	O	208	LYS	N-CA-C	-5.05	107.17	113.38
7	O	1642	LYS	N-CA-CB	5.05	117.46	109.94
8	P	1331	LEU	CA-C-O	-5.05	113.83	119.79
9	S	393	GLU	CA-C-N	5.05	127.00	120.44
9	S	393	GLU	C-N-CA	5.05	127.00	120.44
9	S	410	ALA	CB-CA-C	-5.05	102.95	110.88
2	Y	191	ILE	N-CA-C	-5.05	101.10	108.17
3	1	412	ILE	CA-C-O	-5.05	115.13	120.48
3	1	903	CYS	O-C-N	5.05	127.47	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z	1130	ARG	CB-CA-C	-5.05	102.27	110.85
7	M	470	ASP	CA-C-O	-5.05	115.20	120.55
7	M	1155	ASN	CA-CB-CG	-5.05	107.55	112.60
9	Q	214	ASN	N-CA-CB	5.05	117.54	110.12
9	R	755	LYS	CA-C-N	5.05	127.04	120.28
9	R	755	LYS	C-N-CA	5.05	127.04	120.28
7	O	1244	ASN	CB-CG-ND2	-5.05	108.83	116.40
7	O	1500	ASN	CA-CB-CG	-5.05	107.55	112.60
8	P	70	LYS	O-C-N	5.05	127.47	122.12
9	T	291	LYS	N-CA-C	5.05	116.78	111.28
7	O	188	ARG	CG-CD-NE	-5.04	100.90	112.00
8	P	966	GLY	CA-C-N	5.04	127.45	120.29
8	P	966	GLY	C-N-CA	5.04	127.45	120.29
9	T	740	GLU	N-CA-C	5.04	116.78	111.28
2	Y	1029	LYS	N-CA-CB	5.04	117.62	110.16
2	Y	1434	ILE	CA-C-N	5.04	127.97	120.31
2	Y	1434	ILE	C-N-CA	5.04	127.97	120.31
3	Z	226	THR	CA-C-N	5.04	127.00	120.44
3	Z	226	THR	C-N-CA	5.04	127.00	120.44
7	M	188	ARG	CG-CD-NE	-5.04	100.91	112.00
7	M	1174	LYS	CG-CD-CE	5.04	122.90	111.30
8	N	136	ASN	N-CA-CB	5.04	117.62	110.16
9	R	712	GLU	CA-C-N	5.04	127.58	120.42
9	R	712	GLU	C-N-CA	5.04	127.58	120.42
2	0	1475	LYS	CB-CA-C	5.04	116.91	109.29
3	1	824	SER	CA-C-N	5.04	127.00	120.44
3	1	824	SER	C-N-CA	5.04	127.00	120.44
3	1	929	ASP	CA-C-O	-5.04	115.20	120.55
7	O	100	ASN	CA-CB-CG	5.04	117.64	112.60
8	P	151	ASN	CA-CB-CG	-5.04	107.56	112.60
2	Y	842	TYR	N-CA-CB	5.04	117.62	110.16
4	D	747	THR	CA-C-N	5.04	127.45	120.29
4	D	747	THR	C-N-CA	5.04	127.45	120.29
8	N	853	LYS	CA-C-N	5.04	127.04	120.28
8	N	853	LYS	C-N-CA	5.04	127.04	120.28
8	N	1331	LEU	CA-C-O	-5.04	113.84	119.79
9	Q	207	ILE	CA-C-N	5.04	127.03	120.28
9	Q	207	ILE	C-N-CA	5.04	127.03	120.28
2	0	196	ASN	CA-C-O	5.04	125.54	119.59
7	O	1132	GLU	CA-C-O	-5.04	115.08	120.42
7	O	1280	ILE	N-CA-C	-5.04	105.58	110.42
8	P	303	GLU	N-CA-CB	5.04	117.53	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	793	LEU	N-CA-C	-5.04	101.49	109.96
8	P	1097	LEU	CA-C-N	5.04	127.97	120.31
8	P	1097	LEU	C-N-CA	5.04	127.97	120.31
9	S	708	VAL	N-CA-C	5.04	115.76	110.62
9	S	764	ASP	N-CA-CB	5.04	117.45	110.04
11	X	351	THR	CA-C-N	5.04	129.20	122.75
11	X	351	THR	C-N-CA	5.04	129.20	122.75
8	N	1603	SER	N-CA-CB	5.04	117.53	110.12
9	R	392	THR	CA-C-N	5.04	127.03	120.28
9	R	392	THR	C-N-CA	5.04	127.03	120.28
2	0	281	ARG	CD-NE-CZ	-5.04	117.34	124.40
2	0	1234	GLU	CA-C-N	5.04	127.03	120.28
2	0	1234	GLU	C-N-CA	5.04	127.03	120.28
8	P	249	ASP	N-CA-CB	5.04	117.53	110.12
8	P	685	TYR	N-CA-CB	5.04	121.92	113.10
2	Y	1139	VAL	CA-C-N	5.04	127.45	120.29
2	Y	1139	VAL	C-N-CA	5.04	127.45	120.29
2	Y	1237	SER	CA-C-N	5.04	127.03	120.28
2	Y	1237	SER	C-N-CA	5.04	127.03	120.28
3	Z	724	TRP	CB-CA-C	-5.04	101.31	110.63
8	N	101	PHE	CA-C-N	5.04	126.99	120.44
8	N	101	PHE	C-N-CA	5.04	126.99	120.44
8	N	101	PHE	N-CA-C	5.04	116.46	111.07
8	N	479	ALA	N-CA-CB	5.04	117.28	110.38
8	N	998	LEU	CA-C-N	5.04	126.99	120.44
8	N	998	LEU	C-N-CA	5.04	126.99	120.44
8	N	1265	PHE	CA-C-O	5.04	125.89	120.55
8	N	1623	GLU	N-CA-C	-5.04	105.97	111.82
2	0	1335	VAL	CA-C-N	5.04	126.91	120.56
2	0	1335	VAL	C-N-CA	5.04	126.91	120.56
7	O	1465	GLN	O-C-N	-5.04	116.78	122.12
8	P	1593	HIS	N-CA-CB	5.04	117.53	110.12
9	T	575	ALA	CA-C-N	5.04	127.44	120.29
9	T	575	ALA	C-N-CA	5.04	127.44	120.29
2	Y	1157	PHE	CA-C-N	5.04	127.03	120.28
2	Y	1157	PHE	C-N-CA	5.04	127.03	120.28
8	N	1045	ALA	O-C-N	-5.04	116.88	122.07
9	Q	774	LEU	O-C-N	-5.04	116.78	122.12
7	O	1250	LYS	CA-C-N	5.04	127.29	120.44
7	O	1250	LYS	C-N-CA	5.04	127.29	120.44
8	P	235	ASP	CA-C-N	5.04	131.16	121.54
8	P	235	ASP	C-N-CA	5.04	131.16	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	479	ALA	N-CA-CB	5.04	117.28	110.38
2	Y	851	GLU	CA-C-N	5.04	126.99	120.44
2	Y	851	GLU	C-N-CA	5.04	126.99	120.44
3	Z	412	ILE	CA-C-O	-5.04	115.14	120.48
7	M	1522	VAL	CA-C-O	-5.04	115.71	120.95
9	Q	293	ASN	OD1-CG-ND2	5.04	127.64	122.60
9	Q	745	LEU	CA-C-O	5.04	125.62	120.64
9	R	73	LEU	CA-C-N	5.04	127.03	120.28
9	R	73	LEU	C-N-CA	5.04	127.03	120.28
2	0	685	VAL	CB-CA-C	5.04	118.42	111.97
8	P	512	GLU	N-CA-C	-5.04	107.14	113.28
9	S	546	ARG	NE-CZ-NH2	5.04	123.73	119.20
9	T	627	ALA	CA-C-N	5.04	127.03	120.28
9	T	627	ALA	C-N-CA	5.04	127.03	120.28
7	M	208	LYS	N-CA-C	-5.03	107.19	113.38
8	N	1380	ASP	CB-CA-C	-5.03	102.33	110.79
3	1	1051	ASN	N-CA-CB	5.03	117.37	109.97
7	O	282	PHE	CA-C-N	5.03	127.03	120.28
7	O	282	PHE	C-N-CA	5.03	127.03	120.28
8	P	591	MET	N-CA-C	5.03	116.46	111.07
8	P	804	GLN	O-C-N	5.03	127.46	122.12
8	P	1240	PHE	CB-CA-C	5.03	117.53	109.07
3	Z	1067	LYS	CA-C-O	-5.03	114.33	120.12
7	M	854	GLU	CA-C-N	5.03	131.15	121.54
7	M	854	GLU	C-N-CA	5.03	131.15	121.54
8	N	235	ASP	CA-C-N	5.03	131.15	121.54
8	N	235	ASP	C-N-CA	5.03	131.15	121.54
8	P	788	HIS	ND1-CE1-NE2	5.03	113.43	108.40
8	P	1603	SER	N-CA-CB	5.03	117.52	110.12
2	Y	187	ASP	N-CA-C	5.03	115.95	108.31
7	M	599	GLU	CB-CG-CD	-5.03	104.05	112.60
7	M	739	ARG	O-C-N	-5.03	116.99	122.67
7	M	1027	GLN	N-CA-CB	5.03	118.07	109.87
8	N	915	ASP	CA-C-O	-5.03	113.32	120.51
8	N	1344	PHE	CA-C-N	5.03	127.78	120.79
8	N	1344	PHE	C-N-CA	5.03	127.78	120.79
9	R	72	LEU	N-CA-CB	5.03	117.31	110.01
2	0	193	TRP	N-CA-C	-5.03	101.55	109.50
2	0	851	GLU	CA-C-N	5.03	126.98	120.44
2	0	851	GLU	C-N-CA	5.03	126.98	120.44
2	0	1036	GLU	CA-C-N	5.03	129.12	120.72
2	0	1036	GLU	C-N-CA	5.03	129.12	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	H	359	ASN	O-C-N	-5.03	116.79	122.12
7	O	1487	LEU	O-C-N	5.03	127.45	122.12
8	P	1365	ARG	N-CA-C	-5.03	103.30	110.59
9	T	203	ASN	CA-CB-CG	-5.03	107.57	112.60
6	F	459	VAL	O-C-N	-5.03	116.99	121.87
7	M	1029	SER	N-CA-C	-5.03	104.66	108.78
9	R	17	GLY	CA-C-N	5.03	127.28	120.44
9	R	17	GLY	C-N-CA	5.03	127.28	120.44
5	H	343	PRO	N-CA-CB	-5.03	98.78	102.35
7	O	529	MET	CA-C-N	5.03	127.56	120.42
7	O	529	MET	C-N-CA	5.03	127.56	120.42
2	Y	1475	LYS	CB-CA-C	5.03	116.88	109.29
3	Z	993	PRO	CA-C-N	5.03	131.14	121.18
3	Z	993	PRO	C-N-CA	5.03	131.14	121.18
7	M	1102	LYS	N-CA-CB	5.03	117.51	110.12
8	N	151	ASN	CA-CB-CG	-5.03	107.57	112.60
8	N	976	PHE	N-CA-C	-5.03	103.04	110.48
8	N	1581	GLU	O-C-N	-5.03	116.75	122.93
9	Q	737	SER	O-C-N	5.03	127.45	122.12
3	1	170	ASN	CA-C-N	5.03	130.22	122.93
3	1	170	ASN	C-N-CA	5.03	130.22	122.93
4	G	771	ASN	OD1-CG-ND2	5.03	127.63	122.60
7	O	211	ASP	N-CA-C	5.03	117.49	111.71
7	O	1341	ASP	N-CA-C	-5.03	105.71	111.14
8	P	101	PHE	CA-C-N	5.03	126.98	120.44
8	P	101	PHE	C-N-CA	5.03	126.98	120.44
8	P	991	LYS	CA-C-O	-5.03	113.20	119.18
9	S	478	TYR	CA-C-O	5.03	125.75	120.42
9	S	768	VAL	CA-CB-CG2	5.03	118.95	110.40
7	M	1332	PHE	N-CA-CB	5.03	117.60	110.06
8	N	1365	ARG	N-CA-C	-5.03	103.30	110.59
9	R	203	ASN	CA-CB-CG	-5.03	107.57	112.60
9	R	214	ASN	CA-CB-CG	-5.03	107.58	112.60
9	R	740	GLU	N-CA-C	5.03	116.76	111.28
3	1	251	LEU	O-C-N	-5.03	117.16	123.04
7	O	599	GLU	CB-CG-CD	-5.03	104.06	112.60
7	O	1176	GLU	CB-CA-C	-5.03	102.99	110.88
8	P	652	THR	N-CA-C	-5.03	105.71	111.14
8	P	853	LYS	CA-C-N	5.03	127.02	120.28
8	P	853	LYS	C-N-CA	5.03	127.02	120.28
2	Y	908	SER	CA-C-O	-5.02	115.22	120.55
2	Y	1460	ARG	NE-CZ-NH1	5.02	126.52	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	1103	GLU	CA-C-O	5.02	125.36	119.28
7	M	1244	ASN	CB-CG-ND2	-5.02	108.86	116.40
7	M	1280	ILE	N-CA-C	-5.02	105.60	110.42
7	M	1336	ILE	CB-CA-C	-5.02	109.03	114.35
8	N	612	SER	N-CA-CB	5.02	117.60	110.16
2	0	1157	PHE	CA-C-N	5.02	127.01	120.28
2	0	1157	PHE	C-N-CA	5.02	127.01	120.28
7	M	369	GLN	N-CA-C	-5.02	106.84	113.17
7	M	937	LEU	CA-C-N	5.02	127.42	120.29
7	M	937	LEU	C-N-CA	5.02	127.42	120.29
7	M	1352	GLU	CB-CA-C	-5.02	102.45	110.79
3	1	724	TRP	CB-CA-C	-5.02	101.34	110.63
3	1	1067	LYS	CA-C-O	-5.02	114.34	120.12
3	1	1087	ARG	CA-C-O	-5.02	113.72	119.60
7	O	271	LYS	CA-C-O	-5.02	114.32	119.49
7	O	773	LYS	CA-C-O	5.02	125.88	120.55
7	O	1174	LYS	CG-CD-CE	5.02	122.85	111.30
8	P	998	LEU	CA-C-N	5.02	126.97	120.44
8	P	998	LEU	C-N-CA	5.02	126.97	120.44
8	P	1247	PHE	CA-C-N	5.02	127.01	120.28
8	P	1247	PHE	C-N-CA	5.02	127.01	120.28
9	S	428	VAL	N-CA-C	-5.02	108.40	113.47
9	T	72	LEU	N-CA-CB	5.02	117.29	110.01
6	C	457	ILE	CA-CB-CG2	-5.02	101.96	110.50
8	N	1117	GLY	CA-C-N	5.02	129.27	122.19
8	N	1117	GLY	C-N-CA	5.02	129.27	122.19
3	1	1219	LYS	CB-CA-C	-5.02	102.46	110.79
9	T	712	GLU	CA-C-N	5.02	127.55	120.42
9	T	712	GLU	C-N-CA	5.02	127.55	120.42
6	F	454	ALA	O-C-N	5.02	128.09	122.22
7	M	1250	LYS	CA-C-N	5.02	127.27	120.44
7	M	1250	LYS	C-N-CA	5.02	127.27	120.44
7	M	1465	GLN	O-C-N	-5.02	116.80	122.12
8	N	1274	GLU	O-C-N	5.02	127.24	122.07
2	0	842	TYR	N-CA-CB	5.02	117.59	110.16
3	1	226	THR	CA-C-N	5.02	126.97	120.44
3	1	226	THR	C-N-CA	5.02	126.97	120.44
3	1	1134	LEU	N-CA-CB	5.02	117.50	110.12
7	O	566	THR	N-CA-C	-5.02	105.70	111.07
7	O	594	ALA	O-C-N	5.02	127.44	122.12
8	P	1380	ASP	CB-CA-C	-5.02	102.36	110.79
3	Z	170	ASN	CA-C-N	5.02	130.21	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z	170	ASN	C-N-CA	5.02	130.21	122.93
3	Z	258	PHE	N-CA-CB	5.02	118.47	111.15
6	C	399	ASN	CB-CA-C	-5.02	101.35	110.63
7	M	692	TYR	N-CA-C	5.02	117.40	111.33
7	M	917	PHE	CA-CB-CG	5.02	118.82	113.80
8	N	123	ASP	CA-C-O	5.02	127.68	120.51
9	R	87	ILE	CA-C-O	-5.02	115.83	121.05
2	0	658	ILE	N-CA-CB	5.02	116.42	110.55
2	0	924	ASN	OD1-CG-ND2	5.02	127.62	122.60
8	P	390	ILE	O-C-N	-5.02	116.45	121.12
2	Y	974	ASN	CA-C-N	5.02	127.33	120.46
2	Y	974	ASN	C-N-CA	5.02	127.33	120.46
3	Z	657	ILE	CA-C-N	5.02	127.00	120.28
3	Z	657	ILE	C-N-CA	5.02	127.00	120.28
9	Q	277	TYR	CB-CG-CD1	-5.02	113.28	120.80
9	R	575	ALA	CA-C-N	5.02	127.41	120.29
9	R	575	ALA	C-N-CA	5.02	127.41	120.29
2	0	1270	GLY	CA-C-N	5.02	128.40	120.47
2	0	1270	GLY	C-N-CA	5.02	128.40	120.47
2	0	1467	SER	CA-C-N	5.02	127.00	120.28
2	0	1467	SER	C-N-CA	5.02	127.00	120.28
3	1	1130	ARG	CB-CA-C	-5.02	102.32	110.85
7	O	1166	HIS	ND1-CE1-NE2	5.02	113.42	108.40
3	Z	1134	LEU	N-CA-CB	5.01	117.49	110.12
8	N	783	PHE	N-CA-CB	5.01	118.00	110.53
9	Q	719	ASN	CA-C-N	5.01	127.33	120.46
9	Q	719	ASN	C-N-CA	5.01	127.33	120.46
7	O	949	SER	CA-C-N	5.01	127.00	120.28
7	O	949	SER	C-N-CA	5.01	127.00	120.28
8	P	1282	ASN	CA-CB-CG	-5.01	107.59	112.60
9	S	277	TYR	CB-CG-CD1	-5.01	113.28	120.80
9	S	717	LEU	N-CA-C	5.01	116.75	111.28
2	Y	1234	GLU	CA-C-N	5.01	127.00	120.28
2	Y	1234	GLU	C-N-CA	5.01	127.00	120.28
8	N	788	HIS	ND1-CE1-NE2	5.01	113.41	108.40
7	O	1102	LYS	N-CA-CB	5.01	117.49	110.12
9	S	702	ILE	N-CA-CB	5.01	116.99	110.57
9	S	719	ASN	CA-C-N	5.01	127.33	120.46
9	S	719	ASN	C-N-CA	5.01	127.33	120.46
2	Y	681	THR	N-CA-C	-5.01	105.90	111.36
7	M	541	LEU	CA-C-N	5.01	126.99	120.28
7	M	541	LEU	C-N-CA	5.01	126.99	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	M	1166	HIS	ND1-CE1-NE2	5.01	113.41	108.40
7	M	1487	LEU	O-C-N	5.01	127.43	122.12
9	Q	573	HIS	CA-C-O	-5.01	115.24	120.55
7	O	1336	ILE	CB-CA-C	-5.01	109.04	114.35
8	P	136	ASN	N-CA-CB	5.01	117.58	110.16
8	P	813	ILE	CA-CB-CG1	5.01	118.92	110.40
8	P	1083	ALA	N-CA-C	-5.01	105.71	111.07
9	S	792	SER	CA-CB-OG	5.01	121.12	111.10
3	Z	1034	SER	CA-C-O	-5.01	116.35	120.71
3	Z	1388	HIS	CA-C-O	5.01	125.52	119.11
8	N	600	ASN	CB-CG-OD1	5.01	130.82	120.80
8	N	834	ILE	N-CA-C	-5.01	105.61	110.42
8	N	884	LEU	CA-C-N	5.01	127.32	120.46
8	N	884	LEU	C-N-CA	5.01	127.32	120.46
9	Q	644	TYR	CA-C-O	-5.01	114.21	119.97
2	0	1442	SER	CB-CA-C	-5.01	102.47	110.79
5	H	530	ASP	CA-CB-CG	5.01	117.61	112.60
4	J	747	THR	CA-C-N	5.01	127.40	120.29
4	J	747	THR	C-N-CA	5.01	127.40	120.29
4	J	756	ASN	N-CA-CB	5.01	117.33	110.07
7	O	814	ASN	CA-CB-CG	5.01	117.61	112.60
9	T	87	ILE	CA-C-O	-5.01	115.84	121.05
3	Z	819	ILE	N-CA-CB	5.01	119.21	110.65
5	B	530	ASP	CA-CB-CG	5.01	117.61	112.60
7	M	282	PHE	CA-C-N	5.01	126.99	120.28
7	M	282	PHE	C-N-CA	5.01	126.99	120.28
8	N	582	GLN	OE1-CD-NE2	5.01	127.61	122.60
2	0	1417	ILE	CA-CB-CG1	5.01	118.91	110.40
5	H	339	MET	CB-CA-C	-5.01	102.99	110.90
2	Y	1036	GLU	CA-C-N	5.01	129.08	120.72
2	Y	1036	GLU	C-N-CA	5.01	129.08	120.72
7	M	1407	ILE	CB-CA-C	-5.01	105.56	111.97
8	N	249	ASP	N-CA-CB	5.01	117.48	110.12
8	N	808	THR	CA-C-O	-5.01	115.16	120.02
9	Q	246	ASN	OD1-CG-ND2	5.01	127.61	122.60
9	Q	563	ASN	OD1-CG-ND2	5.01	127.61	122.60
2	0	681	THR	N-CA-C	-5.01	105.90	111.36
2	0	1217	LEU	CA-C-N	5.01	126.99	120.28
2	0	1217	LEU	C-N-CA	5.01	126.99	120.28
6	I	399	ASN	CB-CA-C	-5.01	101.37	110.63
6	I	457	ILE	CA-CB-CG2	-5.01	101.99	110.50
4	J	688	HIS	ND1-CE1-NE2	5.01	113.41	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	P	876	LEU	N-CA-CB	5.01	117.48	110.12
8	P	1274	GLU	O-C-N	5.01	127.23	122.07
9	T	253	LEU	CA-C-N	5.01	126.99	120.28
9	T	253	LEU	C-N-CA	5.01	126.99	120.28
9	T	272	GLU	CA-C-N	5.01	128.51	120.30
9	T	272	GLU	C-N-CA	5.01	128.51	120.30
3	Z	1087	ARG	CA-C-O	-5.00	113.74	119.60
5	B	343	PRO	N-CA-CB	-5.00	98.80	102.35
9	Q	393	GLU	CA-C-N	5.00	126.95	120.44
9	Q	393	GLU	C-N-CA	5.00	126.95	120.44
9	Q	428	VAL	N-CA-C	-5.00	108.42	113.47
9	Q	764	ASP	N-CA-CB	5.00	117.40	110.04
2	0	963	ILE	O-C-N	-5.00	116.81	121.87
2	0	1029	LYS	N-CA-CB	5.00	117.57	110.16
9	T	17	GLY	CA-C-N	5.00	127.25	120.44
9	T	17	GLY	C-N-CA	5.00	127.25	120.44
3	Z	1219	LYS	CB-CA-C	-5.00	102.48	110.79
5	B	390	HIS	CA-CB-CG	5.00	118.80	113.80
7	M	1306	TRP	CB-CG-CD2	5.00	133.81	126.80
8	N	351	LEU	N-CA-CB	5.00	117.56	110.16
8	N	793	LEU	N-CA-C	-5.00	101.56	109.96
8	N	1083	ALA	N-CA-C	-5.00	105.72	111.07
8	N	1282	ASN	CA-CB-CG	-5.00	107.60	112.60
9	R	385	GLU	CA-C-N	5.00	129.13	120.58
9	R	385	GLU	C-N-CA	5.00	129.13	120.58
2	0	1212	GLU	O-C-N	5.00	127.85	122.15
3	1	240	ARG	NE-CZ-NH2	-5.00	114.70	119.20
5	H	418	GLN	CG-CD-NE2	5.00	123.91	116.40
7	O	937	LEU	CA-C-N	5.00	127.40	120.29
7	O	937	LEU	C-N-CA	5.00	127.40	120.29
8	P	83	VAL	CA-C-O	5.00	125.66	120.25
9	S	644	TYR	CA-C-O	-5.00	114.22	119.97
9	T	448	ALA	N-CA-C	5.00	117.46	111.71
2	Y	631	GLN	O-C-N	5.00	127.22	122.07
2	Y	1275	ILE	CA-C-N	5.00	126.98	120.28
2	Y	1275	ILE	C-N-CA	5.00	126.98	120.28
2	Y	1417	ILE	CA-CB-CG1	5.00	118.90	110.40
4	D	746	LYS	CA-C-N	5.00	127.39	120.29
4	D	746	LYS	C-N-CA	5.00	127.39	120.29
7	M	1176	GLU	CB-CA-C	-5.00	103.03	110.88
8	N	837	ASP	CA-C-N	5.00	128.60	120.60
8	N	837	ASP	C-N-CA	5.00	128.60	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	R	448	ALA	N-CA-C	5.00	117.46	111.71
5	K	330	VAL	CB-CA-C	5.00	118.10	110.90
7	O	153	THR	N-CA-CB	5.00	117.47	110.12
7	O	461	LEU	CA-C-O	-5.00	115.25	120.55
7	O	543	VAL	CA-C-N	5.00	126.98	120.28
7	O	543	VAL	C-N-CA	5.00	126.98	120.28
7	O	855	LEU	CD1-CG-CD2	5.00	121.81	110.80
8	P	69	ASN	CA-C-N	5.00	127.23	120.38
8	P	69	ASN	C-N-CA	5.00	127.23	120.38
8	P	612	SER	N-CA-CB	5.00	117.56	110.16
8	P	834	ILE	N-CA-C	-5.00	105.62	110.42
9	S	429	THR	CA-CB-OG1	5.00	117.10	109.60

There are no chirality outliers.

All (380) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	0	1011	ARG	Sidechain
2	0	1012	ARG	Sidechain
2	0	1019	ARG	Sidechain
2	0	1059	TYR	Sidechain
2	0	107	TYR	Sidechain
2	0	1146	TYR	Sidechain
2	0	1219	ARG	Sidechain
2	0	1235	PHE	Sidechain
2	0	127	TYR	Sidechain
2	0	1284	ARG	Sidechain
2	0	1428	TYR	Sidechain
2	0	1460	ARG	Sidechain
2	0	154	PHE	Sidechain
2	0	181	ARG	Sidechain
2	0	313	CYS	Peptide
2	0	380	TYR	Sidechain
2	0	397	TYR	Sidechain
2	0	408	ARG	Sidechain
2	0	417	TYR	Sidechain
2	0	447	TYR	Sidechain
2	0	454	ARG	Sidechain
2	0	461	ARG	Sidechain
2	0	491	ARG	Sidechain
2	0	509	PHE	Sidechain
2	0	538	SER	Peptide

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Mol	Chain	Res	Type	Group
2	0	583	TYR	Sidechain
2	0	592	TYR	Sidechain
2	0	705	MET	Peptide
2	0	771	TYR	Sidechain
2	0	787	ARG	Sidechain
2	0	792	THR	Peptide
2	0	842	TYR	Sidechain
2	0	856	TYR	Sidechain
2	0	973	ARG	Sidechain
3	1	1042	ARG	Sidechain
3	1	1044	TYR	Sidechain
3	1	1060	TYR	Sidechain
3	1	1068	ARG	Sidechain
3	1	1079	PHE	Sidechain
3	1	1083	TYR	Sidechain
3	1	1100	PHE	Sidechain
3	1	1101	TYR	Sidechain
3	1	1136	ARG	Sidechain
3	1	117	TYR	Sidechain
3	1	1178	ARG	Sidechain
3	1	1188	ARG	Sidechain
3	1	1277	ARG	Sidechain
3	1	1287	PHE	Sidechain
3	1	1323	TYR	Sidechain
3	1	1351	TYR	Sidechain
3	1	166	PHE	Sidechain
3	1	240	ARG	Sidechain
3	1	242	HIS	Sidechain
3	1	266	TYR	Sidechain
3	1	288	TYR	Sidechain
3	1	351	ARG	Sidechain
3	1	355	HIS	Sidechain
3	1	404	PHE	Sidechain
3	1	431	ARG	Sidechain
3	1	512	ARG	Sidechain
3	1	554	TYR	Sidechain
3	1	635	TYR	Sidechain
3	1	666	SER	Peptide
3	1	710	TYR	Sidechain
3	1	773	PHE	Sidechain
3	1	816	TYR	Sidechain
3	1	836	TYR	Sidechain

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Mol	Chain	Res	Type	Group
3	1	850	HIS	Sidechain
3	1	883	TYR	Sidechain
3	1	904	TYR	Sidechain
3	1	986	ARG	Sidechain
1	7	83	UNK	Mainchain
1	8	83	UNK	Mainchain
4	A	658	TYR	Sidechain
5	B	373	ARG	Sidechain
5	B	397	ARG	Sidechain
5	B	411	ARG	Sidechain
6	C	314	TYR	Sidechain
6	C	389	ARG	Sidechain
4	D	800	HIS	Sidechain
5	E	313	TYR	Sidechain
5	E	373	ARG	Sidechain
5	E	522	TYR	Sidechain
6	F	325	TYR	Sidechain
4	G	658	TYR	Sidechain
5	H	373	ARG	Sidechain
5	H	397	ARG	Sidechain
5	H	411	ARG	Sidechain
6	I	314	TYR	Sidechain
6	I	389	ARG	Sidechain
4	J	800	HIS	Sidechain
5	K	313	TYR	Sidechain
5	K	522	TYR	Sidechain
6	L	325	TYR	Sidechain
7	M	1005	PHE	Sidechain
7	M	1013	TYR	Sidechain
7	M	1041	PHE	Sidechain
7	M	1074	ARG	Sidechain
7	M	1154	ARG	Sidechain
7	M	1156	TYR	Sidechain
7	M	1183	TYR	Sidechain
7	M	12	TYR	Sidechain
7	M	1231	TYR	Sidechain
7	M	1286	PHE	Sidechain
7	M	1292	ARG	Sidechain
7	M	1342	TYR	Sidechain
7	M	1349	PHE	Sidechain
7	M	1368	ARG	Sidechain
7	M	1412	TYR	Sidechain

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Mol	Chain	Res	Type	Group
7	M	150	PHE	Sidechain
7	M	1635	ARG	Sidechain
7	M	171	TYR	Sidechain
7	M	185	PHE	Sidechain
7	M	238	PHE	Sidechain
7	M	284	TYR	Sidechain
7	M	296	ARG	Sidechain
7	M	359	GLN	Peptide
7	M	412	ASN	Peptide
7	M	480	ARG	Sidechain
7	M	482	PHE	Sidechain
7	M	486	TYR	Sidechain
7	M	495	TYR	Sidechain
7	M	544	TYR	Sidechain
7	M	545	HIS	Sidechain
7	M	546	TYR	Sidechain
7	M	654	PHE	Sidechain
7	M	674	PHE	Sidechain
7	M	677	SER	Peptide
7	M	680	PHE	Sidechain
7	M	692	TYR	Sidechain
7	M	693	ARG	Sidechain
7	M	703	TYR	Sidechain
7	M	752	TYR	Sidechain
7	M	793	TYR	Sidechain
7	M	918	PHE	Sidechain
7	M	929	TYR	Sidechain
7	M	951	ARG	Sidechain
7	M	982	PHE	Sidechain
8	N	1072	TYR	Sidechain
8	N	1111	HIS	Sidechain
8	N	1263	TYR	Sidechain
8	N	1313	ARG	Sidechain
8	N	1349	TYR	Sidechain
8	N	1534	TYR	Sidechain
8	N	1597	ARG	Sidechain
8	N	1633	ARG	Sidechain
8	N	1642	ARG	Sidechain
8	N	242	TYR	Sidechain
8	N	244	PHE	Sidechain
8	N	330	TYR	Sidechain
8	N	375	TYR	Sidechain

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Mol	Chain	Res	Type	Group
8	N	421	PHE	Sidechain
8	N	460	ILE	Peptide
8	N	475	TYR	Sidechain
8	N	617	TYR	Sidechain
8	N	648	ARG	Sidechain
8	N	660	PHE	Sidechain
8	N	685	TYR	Sidechain
8	N	844	TYR	Sidechain
8	N	862	ARG	Sidechain
8	N	88	PHE	Sidechain
8	N	888	TYR	Sidechain
8	N	906	TYR	Sidechain
8	N	916	TYR	Sidechain
7	O	1005	PHE	Sidechain
7	O	1013	TYR	Sidechain
7	O	1041	PHE	Sidechain
7	O	1154	ARG	Sidechain
7	O	1156	TYR	Sidechain
7	O	1183	TYR	Sidechain
7	O	12	TYR	Sidechain
7	O	1231	TYR	Sidechain
7	O	1286	PHE	Sidechain
7	O	1292	ARG	Sidechain
7	O	1342	TYR	Sidechain
7	O	1349	PHE	Sidechain
7	O	1368	ARG	Sidechain
7	O	1412	TYR	Sidechain
7	O	150	PHE	Sidechain
7	O	1513	TYR	Sidechain
7	O	1635	ARG	Sidechain
7	O	171	TYR	Sidechain
7	O	185	PHE	Sidechain
7	O	238	PHE	Sidechain
7	O	284	TYR	Sidechain
7	O	296	ARG	Sidechain
7	O	359	GLN	Peptide
7	O	412	ASN	Peptide
7	O	480	ARG	Sidechain
7	O	482	PHE	Sidechain
7	O	486	TYR	Sidechain
7	O	495	TYR	Sidechain
7	O	510	PHE	Sidechain

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Mol	Chain	Res	Type	Group
7	O	544	TYR	Sidechain
7	O	545	HIS	Sidechain
7	O	546	TYR	Sidechain
7	O	654	PHE	Sidechain
7	O	674	PHE	Sidechain
7	O	677	SER	Peptide
7	O	680	PHE	Sidechain
7	O	692	TYR	Sidechain
7	O	693	ARG	Sidechain
7	O	703	TYR	Sidechain
7	O	752	TYR	Sidechain
7	O	793	TYR	Sidechain
7	O	918	PHE	Sidechain
7	O	929	TYR	Sidechain
7	O	951	ARG	Sidechain
7	O	982	PHE	Sidechain
8	P	1072	TYR	Sidechain
8	P	1111	HIS	Sidechain
8	P	1263	TYR	Sidechain
8	P	1313	ARG	Sidechain
8	P	1349	TYR	Sidechain
8	P	1534	TYR	Sidechain
8	P	1597	ARG	Sidechain
8	P	1633	ARG	Sidechain
8	P	1642	ARG	Sidechain
8	P	242	TYR	Sidechain
8	P	244	PHE	Sidechain
8	P	330	TYR	Sidechain
8	P	375	TYR	Sidechain
8	P	421	PHE	Sidechain
8	P	460	ILE	Peptide
8	P	475	TYR	Sidechain
8	P	617	TYR	Sidechain
8	P	648	ARG	Sidechain
8	P	660	PHE	Sidechain
8	P	685	TYR	Sidechain
8	P	72	ARG	Sidechain
8	P	844	TYR	Sidechain
8	P	862	ARG	Sidechain
8	P	88	PHE	Sidechain
8	P	888	TYR	Sidechain
8	P	906	TYR	Sidechain

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Mol	Chain	Res	Type	Group
8	P	916	TYR	Sidechain
9	Q	199	ARG	Sidechain
9	Q	215	TYR	Sidechain
9	Q	339	TYR	Sidechain
9	Q	371	PHE	Sidechain
9	Q	374	TYR	Sidechain
9	Q	454	TYR	Sidechain
9	Q	469	TYR	Sidechain
9	Q	478	TYR	Sidechain
9	Q	556	TYR	Sidechain
9	Q	650	TYR	Sidechain
9	Q	707	HIS	Sidechain
9	Q	727	TYR	Sidechain
9	Q	728	PHE	Sidechain
9	Q	754	ARG	Sidechain
9	Q	794	TYR	Sidechain
9	Q	816	TYR	Sidechain
9	R	217	ARG	Sidechain
9	R	238	PHE	Sidechain
9	R	249	ARG	Sidechain
9	R	290	TYR	Sidechain
9	R	394	TYR	Sidechain
9	R	412	TYR	Sidechain
9	R	456	ARG	Sidechain
9	R	473	ARG	Sidechain
9	R	494	TYR	Sidechain
9	R	496	TYR	Sidechain
9	R	523	ARG	Sidechain
9	R	546	ARG	Sidechain
9	R	547	TYR	Sidechain
9	R	577	ARG	Sidechain
9	R	614	ARG	Sidechain
9	R	727	TYR	Sidechain
9	R	811	ARG	Sidechain
9	S	199	ARG	Sidechain
9	S	215	TYR	Sidechain
9	S	339	TYR	Sidechain
9	S	370	TYR	Sidechain
9	S	371	PHE	Sidechain
9	S	374	TYR	Sidechain
9	S	454	TYR	Sidechain
9	S	469	TYR	Sidechain

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Mol	Chain	Res	Type	Group
9	S	478	TYR	Sidechain
9	S	556	TYR	Sidechain
9	S	650	TYR	Sidechain
9	S	707	HIS	Sidechain
9	S	727	TYR	Sidechain
9	S	728	PHE	Sidechain
9	S	754	ARG	Sidechain
9	S	794	TYR	Sidechain
9	S	816	TYR	Sidechain
9	T	217	ARG	Sidechain
9	T	238	PHE	Sidechain
9	T	249	ARG	Sidechain
9	T	290	TYR	Sidechain
9	T	394	TYR	Sidechain
9	T	412	TYR	Sidechain
9	T	456	ARG	Sidechain
9	T	473	ARG	Sidechain
9	T	494	TYR	Sidechain
9	T	496	TYR	Sidechain
9	T	523	ARG	Sidechain
9	T	546	ARG	Sidechain
9	T	547	TYR	Sidechain
9	T	577	ARG	Sidechain
9	T	614	ARG	Sidechain
9	T	727	TYR	Sidechain
9	T	811	ARG	Sidechain
10	U	280	PHE	Sidechain
10	U	318	TYR	Sidechain
11	V	377	PHE	Sidechain
10	W	318	TYR	Sidechain
11	X	377	PHE	Sidechain
2	Y	1011	ARG	Sidechain
2	Y	1012	ARG	Sidechain
2	Y	1019	ARG	Sidechain
2	Y	1059	TYR	Sidechain
2	Y	107	TYR	Sidechain
2	Y	1146	TYR	Sidechain
2	Y	1219	ARG	Sidechain
2	Y	1235	PHE	Sidechain
2	Y	1242	PHE	Sidechain
2	Y	127	TYR	Sidechain
2	Y	1284	ARG	Sidechain

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Mol	Chain	Res	Type	Group
2	Y	1428	TYR	Sidechain
2	Y	1460	ARG	Sidechain
2	Y	154	PHE	Sidechain
2	Y	181	ARG	Sidechain
2	Y	313	CYS	Peptide
2	Y	380	TYR	Sidechain
2	Y	397	TYR	Sidechain
2	Y	408	ARG	Sidechain
2	Y	417	TYR	Sidechain
2	Y	447	TYR	Sidechain
2	Y	454	ARG	Sidechain
2	Y	461	ARG	Sidechain
2	Y	491	ARG	Sidechain
2	Y	509	PHE	Sidechain
2	Y	538	SER	Peptide
2	Y	583	TYR	Sidechain
2	Y	592	TYR	Sidechain
2	Y	705	MET	Peptide
2	Y	771	TYR	Sidechain
2	Y	787	ARG	Sidechain
2	Y	792	THR	Peptide
2	Y	842	TYR	Sidechain
2	Y	856	TYR	Sidechain
2	Y	973	ARG	Sidechain
3	Z	1042	ARG	Sidechain
3	Z	1044	TYR	Sidechain
3	Z	1060	TYR	Sidechain
3	Z	1068	ARG	Sidechain
3	Z	1079	PHE	Sidechain
3	Z	1083	TYR	Sidechain
3	Z	1100	PHE	Sidechain
3	Z	1101	TYR	Sidechain
3	Z	1136	ARG	Sidechain
3	Z	117	TYR	Sidechain
3	Z	1178	ARG	Sidechain
3	Z	1188	ARG	Sidechain
3	Z	1277	ARG	Sidechain
3	Z	1287	PHE	Sidechain
3	Z	1323	TYR	Sidechain
3	Z	1351	TYR	Sidechain
3	Z	166	PHE	Sidechain
3	Z	240	ARG	Sidechain

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Mol	Chain	Res	Type	Group
3	Z	242	HIS	Sidechain
3	Z	266	TYR	Sidechain
3	Z	288	TYR	Sidechain
3	Z	351	ARG	Sidechain
3	Z	355	HIS	Sidechain
3	Z	404	PHE	Sidechain
3	Z	431	ARG	Sidechain
3	Z	512	ARG	Sidechain
3	Z	554	TYR	Sidechain
3	Z	635	TYR	Sidechain
3	Z	666	SER	Peptide
3	Z	710	TYR	Sidechain
3	Z	773	PHE	Sidechain
3	Z	816	TYR	Sidechain
3	Z	836	TYR	Sidechain
3	Z	850	HIS	Sidechain
3	Z	883	TYR	Sidechain
3	Z	904	TYR	Sidechain
3	Z	986	ARG	Sidechain

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	3	80	0	18	18	0
1	4	80	0	18	17	0
1	7	85	0	20	34	0
1	8	85	0	20	33	0
1	a	40	0	12	0	0
1	b	175	0	37	28	0
1	c	85	0	18	18	0
1	d	110	0	25	7	0
1	e	185	0	39	12	0
1	f	40	0	12	0	0
1	g	175	0	37	39	0
1	h	85	0	21	13	0
1	i	110	0	24	7	0
1	j	185	0	39	27	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	k	65	0	19	18	0
1	l	65	0	19	6	0
1	m	125	0	28	41	0
1	n	125	0	28	37	0
2	0	10015	0	10047	131	0
2	Y	10015	0	10047	107	0
3	1	9319	0	9286	183	0
3	Z	9319	0	9286	161	0
4	A	1315	0	1275	17	0
4	D	1345	0	1287	44	0
4	G	1315	0	1275	19	0
4	J	1347	0	1292	31	0
5	B	1771	0	1832	73	0
5	E	1771	0	1832	135	0
5	H	1771	0	1832	30	0
5	K	1771	0	1832	138	0
6	C	1347	0	1376	16	0
6	F	1381	0	1391	37	0
6	I	1347	0	1376	32	0
6	L	1381	0	1391	61	0
7	M	13334	0	13379	379	0
7	O	13334	0	13379	404	0
8	N	13181	0	13422	343	0
8	P	13190	0	13436	300	0
9	Q	5961	0	5621	85	0
9	R	5983	0	5599	196	0
9	S	5961	0	5621	89	0
9	T	5988	0	5600	199	0
10	U	745	0	752	76	0
10	W	745	0	752	91	0
11	V	710	0	692	135	0
11	X	710	0	692	167	0
All	All	138272	0	136036	3111	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 11.

All (3111) 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)
8:N:617:TYR:CD1	8:N:617:TYR:CE1	1.75	1.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:617:TYR:CD1	8:P:617:TYR:CE1	1.76	1.70
8:P:617:TYR:CE1	8:P:617:TYR:CZ	1.79	1.66
8:N:617:TYR:CE1	8:N:617:TYR:CZ	1.79	1.66
8:P:617:TYR:CD1	8:P:617:TYR:CG	1.83	1.65
8:N:617:TYR:CD1	8:N:617:TYR:CG	1.83	1.64
7:O:1189:MET:CB	8:P:248:GLN:HG2	1.28	1.63
8:P:617:TYR:CG	8:P:617:TYR:CD2	1.83	1.63
7:M:1189:MET:CB	8:N:248:GLN:HG2	1.28	1.63
8:N:617:TYR:CG	8:N:617:TYR:CD2	1.83	1.63
8:P:617:TYR:CZ	8:P:617:TYR:CE2	1.80	1.62
8:N:617:TYR:CZ	8:N:617:TYR:CE2	1.80	1.61
7:O:1382:TYR:CD2	8:P:748:HIS:CE1	1.82	1.61
4:A:796:ILE:HG22	9:Q:24:GLU:CB	1.11	1.57
1:k:288:UNK:CB	5:E:370:ALA:HB2	1.12	1.57
7:O:1386:LYS:CG	8:P:688:THR:CG2	1.78	1.57
1:b:268:UNK:CB	7:M:1038:LEU:CD1	1.75	1.57
7:M:1386:LYS:CG	8:N:688:THR:CG2	1.78	1.56
10:W:276:ILE:HG13	10:W:283:ILE:CD1	1.35	1.56
7:M:1389:ILE:CG2	8:N:687:LYS:HG2	1.18	1.55
8:N:216:TYR:HA	8:N:220:PHE:CD1	1.32	1.55
7:M:1389:ILE:HG21	8:N:687:LYS:CG	1.32	1.55
5:B:323:LEU:CD2	5:B:338:ALA:CB	1.83	1.54
5:K:517:GLN:HE22	9:T:23:ASN:CB	0.92	1.52
5:K:316:VAL:CG1	5:K:348:ILE:CD1	1.84	1.51
3:1:494:ASN:HB2	3:1:512:ARG:CB	1.37	1.51
7:M:1386:LYS:HG2	8:N:688:THR:CG2	1.06	1.51
7:O:1386:LYS:HG2	8:P:688:THR:CG2	1.06	1.51
1:k:288:UNK:CB	5:E:370:ALA:CB	1.83	1.50
1:b:268:UNK:CB	7:M:1038:LEU:HD13	1.22	1.50
10:U:321:GLU:HB2	11:V:293:HIS:CD2	1.45	1.50
7:M:384:MET:HG2	7:M:766:GLN:NE2	1.22	1.50
7:O:384:MET:HG2	7:O:766:GLN:NE2	1.21	1.50
7:O:1671:VAL:HG11	9:T:166:LYS:CB	1.03	1.50
10:W:321:GLU:HB2	11:X:293:HIS:CD2	1.45	1.50
7:O:1382:TYR:CD2	8:P:748:HIS:HE1	1.20	1.49
11:X:289:SER:CB	11:X:294:ILE:CD1	1.81	1.49
7:M:1189:MET:HG2	8:N:248:GLN:CB	1.39	1.49
3:Z:1213:LEU:CD1	3:Z:1215:TYR:CG	1.96	1.48
5:K:517:GLN:NE2	9:T:23:ASN:CB	1.73	1.48
7:O:1189:MET:HG2	8:P:248:GLN:CB	1.39	1.48
11:V:355:TRP:CD1	11:V:400:ILE:HB	1.47	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X:355:TRP:CD1	11:X:400:ILE:HB	1.47	1.47
4:A:796:ILE:CG2	9:Q:24:GLU:CB	1.91	1.46
7:M:1191:SER:CB	8:N:757:LYS:HA	1.46	1.46
7:O:1191:SER:CB	8:P:757:LYS:HA	1.46	1.46
11:X:289:SER:HB3	11:X:294:ILE:CD1	1.32	1.46
9:T:436:LEU:HD12	9:T:462:PHE:CZ	1.51	1.45
9:R:436:LEU:HD12	9:R:462:PHE:CZ	1.51	1.45
5:E:314:ASN:HD21	5:E:348:ILE:CB	1.26	1.44
5:B:323:LEU:HD11	5:B:339:MET:N	1.16	1.44
11:V:355:TRP:NE1	11:V:400:ILE:HB	1.32	1.44
11:X:355:TRP:NE1	11:X:400:ILE:HB	1.33	1.43
7:O:1381:LEU:HD11	7:O:1385:PHE:CZ	1.53	1.43
3:Z:1213:LEU:HD13	3:Z:1215:TYR:CD1	1.53	1.42
5:B:323:LEU:HD21	5:B:338:ALA:C	1.43	1.42
4:D:795:LYS:NZ	9:R:21:LYS:CB	1.83	1.41
1:3:2:UNK:H	5:E:316:VAL:CB	1.34	1.41
11:V:273:VAL:HB	11:V:356:VAL:CG2	1.51	1.41
11:X:273:VAL:HB	11:X:356:VAL:CG2	1.51	1.41
3:Z:1213:LEU:HD11	3:Z:1215:TYR:CG	1.55	1.40
1:4:5:UNK:CB	5:K:315:LYS:HD3	1.50	1.40
5:B:320:GLU:OE1	5:B:348:ILE:CD1	1.70	1.39
7:O:1671:VAL:CG1	9:T:166:LYS:CB	1.99	1.39
11:X:289:SER:CA	11:X:294:ILE:HD13	1.52	1.39
7:M:1559:LEU:CD2	7:O:1642:LYS:HE3	1.52	1.39
3:Z:1213:LEU:HD22	3:Z:1215:TYR:CE2	1.57	1.38
5:B:323:LEU:CD2	5:B:338:ALA:HB1	1.41	1.38
9:S:594:GLY:CA	10:W:324:LYS:HE2	1.51	1.38
11:X:289:SER:CB	11:X:294:ILE:HD11	1.42	1.38
9:Q:594:GLY:CA	10:U:324:LYS:HE2	1.51	1.38
7:M:1386:LYS:CG	8:N:688:THR:HG23	1.42	1.37
7:O:1386:LYS:CG	8:P:688:THR:HG23	1.42	1.37
3:Z:1213:LEU:CD2	3:Z:1215:TYR:CE2	2.08	1.36
5:B:323:LEU:CD1	5:B:339:MET:HA	1.51	1.36
1:3:2:UNK:N	5:E:316:VAL:HG12	1.34	1.36
7:M:1642:LYS:HE3	7:O:1559:LEU:CD2	1.55	1.36
5:H:413:LEU:HB2	6:I:373:PHE:CE2	1.58	1.36
1:m:350:UNK:N	2:0:1305:SER:HB3	1.39	1.35
1:g:245:UNK:CB	7:O:115:GLN:HG2	1.55	1.35
5:E:314:ASN:ND2	5:E:348:ILE:HB	1.08	1.35
1:b:245:UNK:CB	7:M:115:GLN:HG2	1.56	1.35
11:V:273:VAL:CB	11:V:356:VAL:HG23	1.57	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X:273:VAL:CB	11:X:356:VAL:HG23	1.57	1.34
7:M:1382:TYR:CG	8:N:748:HIS:HE1	1.46	1.34
1:3:2:UNK:H	5:E:316:VAL:CG1	1.40	1.34
3:1:494:ASN:CB	3:1:512:ARG:CB	2.04	1.34
8:P:761:PHE:CE1	8:P:764:LYS:HD3	1.62	1.34
8:N:761:PHE:CE1	8:N:764:LYS:HD3	1.62	1.33
7:M:1561:LEU:C	7:M:1580:VAL:HG11	1.52	1.32
5:H:413:LEU:CB	6:I:373:PHE:HE2	1.43	1.32
7:O:1561:LEU:C	7:O:1580:VAL:HG11	1.52	1.31
5:H:413:LEU:CB	6:I:373:PHE:CE2	2.10	1.31
1:3:2:UNK:N	5:E:316:VAL:CG1	1.91	1.31
1:g:238:UNK:CB	7:O:123:CYS:HB2	1.59	1.30
1:7:72:UNK:CB	9:R:426:PRO:HB3	1.59	1.30
7:M:1382:TYR:CD2	8:N:748:HIS:CE1	2.19	1.30
1:k:287:UNK:CB	5:E:366:THR:HG21	1.59	1.29
10:U:262:ILE:HG23	10:U:265:SER:OG	1.21	1.29
10:U:266:ILE:CG1	10:U:336:ASN:HD22	1.44	1.29
9:T:436:LEU:CD1	9:T:462:PHE:HZ	1.42	1.29
9:R:436:LEU:CD1	9:R:462:PHE:HZ	1.43	1.29
7:M:1382:TYR:CE2	8:N:748:HIS:NE2	1.97	1.29
1:j:442:UNK:CB	8:P:529:LEU:HD22	1.63	1.28
9:R:436:LEU:CD1	9:R:462:PHE:CZ	2.13	1.28
5:H:413:LEU:HB2	6:I:373:PHE:CZ	1.68	1.28
9:T:436:LEU:CD1	9:T:462:PHE:CZ	2.12	1.28
7:M:1386:LYS:NZ	8:N:683:ASP:OD2	1.63	1.28
5:K:456:THR:O	5:K:460:TRP:CD1	1.87	1.28
5:B:323:LEU:HD21	5:B:338:ALA:CA	1.62	1.28
5:E:456:THR:O	5:E:460:TRP:CD1	1.87	1.28
1:8:72:UNK:CB	9:T:426:PRO:HB3	1.63	1.27
7:O:1386:LYS:NZ	8:P:683:ASP:OD2	1.63	1.27
3:1:494:ASN:CB	3:1:512:ARG:HB2	1.64	1.27
10:W:304:LYS:HB3	11:X:270:ALA:O	1.32	1.27
5:B:323:LEU:CD1	5:B:339:MET:CA	2.11	1.27
10:U:268:LEU:CA	10:U:283:ILE:HD11	0.80	1.27
4:J:806:SER:HB3	9:T:35:ALA:CB	1.65	1.27
7:O:1189:MET:CG	8:P:248:GLN:HG2	1.61	1.27
1:4:2:UNK:H2	5:K:314:ASN:CG	1.43	1.27
7:M:1189:MET:CG	8:N:248:GLN:HG2	1.61	1.27
10:U:268:LEU:HA	10:U:283:ILE:CD1	0.79	1.27
1:7:76:UNK:CB	9:R:429:THR:CB	2.13	1.26
1:8:76:UNK:CB	9:T:429:THR:CB	2.13	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:353:UNK:CB	2:0:1309:ASN:HD22	1.46	1.26
1:n:350:UNK:N	2:Y:1305:SER:HB3	1.48	1.26
7:M:1561:LEU:N	7:M:1580:VAL:HG21	1.47	1.25
8:N:64:SER:HB3	8:N:73:SER:OG	1.31	1.25
10:U:262:ILE:CG2	10:U:265:SER:OG	1.83	1.25
1:7:80:UNK:CB	9:R:431:SER:O	1.83	1.25
1:8:80:UNK:CB	9:T:431:SER:O	1.84	1.25
1:g:268:UNK:CB	7:O:1038:LEU:CD1	2.14	1.25
7:O:1561:LEU:N	7:O:1580:VAL:HG21	1.47	1.25
1:k:287:UNK:CB	5:E:366:THR:CG2	2.14	1.24
8:P:1357:CYS:SG	9:T:453:VAL:HG11	1.77	1.24
5:B:323:LEU:HD11	5:B:339:MET:CA	1.66	1.24
7:M:1559:LEU:HD21	7:O:1642:LYS:CE	1.66	1.24
8:N:1357:CYS:SG	9:R:453:VAL:HG11	1.77	1.24
8:P:288:LEU:HD11	8:P:328:ILE:CG2	1.66	1.24
8:N:288:LEU:HD11	8:N:328:ILE:CG2	1.66	1.24
9:T:675:VAL:CG2	9:T:728:PHE:CE2	2.19	1.23
9:R:675:VAL:CG2	9:R:728:PHE:CE2	2.19	1.23
8:P:461:CYS:O	8:P:556:LEU:HD12	1.24	1.23
7:O:1408:LEU:O	7:O:1412:TYR:HD2	1.17	1.23
7:M:1408:LEU:O	7:M:1412:TYR:HD2	1.17	1.23
3:1:1177:VAL:CG2	3:1:1215:TYR:CZ	2.20	1.23
7:M:1189:MET:HG2	8:N:248:GLN:CG	1.67	1.22
7:O:1189:MET:HG2	8:P:248:GLN:CG	1.67	1.22
7:M:1642:LYS:CE	7:O:1559:LEU:HD21	1.68	1.22
8:N:276:ASN:O	8:N:381:VAL:HG11	1.37	1.22
1:g:239:UNK:HA	7:O:119:PHE:CE2	1.73	1.22
7:O:1381:LEU:CD1	7:O:1385:PHE:CZ	2.23	1.21
8:P:276:ASN:O	8:P:381:VAL:HG11	1.37	1.21
7:O:1189:MET:HB3	8:P:249:ASP:N	1.56	1.21
7:M:1189:MET:HB3	8:N:249:ASP:N	1.56	1.21
4:D:796:ILE:CD1	5:E:513:LEU:HD21	1.71	1.20
8:P:273:LEU:O	8:P:284:ILE:O	1.59	1.20
8:N:273:LEU:O	8:N:284:ILE:O	1.59	1.20
5:B:323:LEU:HD11	5:B:338:ALA:C	1.64	1.20
7:M:1191:SER:HB3	8:N:757:LYS:CA	1.71	1.20
5:K:316:VAL:CG1	5:K:348:ILE:HD11	1.55	1.20
7:O:341:PHE:CZ	7:O:652:ALA:HA	1.76	1.20
10:W:276:ILE:CG1	10:W:283:ILE:CD1	2.17	1.20
11:X:273:VAL:CB	11:X:356:VAL:CG2	2.14	1.20
7:M:341:PHE:CZ	7:M:652:ALA:HA	1.77	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:1191:SER:HB3	8:P:757:LYS:CA	1.72	1.20
7:M:1189:MET:CB	8:N:249:ASP:N	2.06	1.19
11:V:273:VAL:CB	11:V:356:VAL:CG2	2.14	1.19
7:O:1189:MET:CB	8:P:249:ASP:N	2.06	1.19
4:J:806:SER:CB	9:T:35:ALA:HB2	1.73	1.19
1:7:80:UNK:HA	9:R:430:LEU:O	1.38	1.19
3:Z:1191:LEU:HD13	3:Z:1215:TYR:OH	1.38	1.19
7:M:1189:MET:H	8:N:248:GLN:CG	1.53	1.19
7:O:1189:MET:H	8:P:248:GLN:CG	1.53	1.19
7:O:1382:TYR:OH	8:P:744:LEU:HD23	1.42	1.19
1:8:80:UNK:HA	9:T:430:LEU:O	1.38	1.19
6:L:350:PHE:CE1	6:L:373:PHE:CE1	2.30	1.19
10:W:266:ILE:HG12	10:W:336:ASN:OD1	1.39	1.19
1:b:241:UNK:CB	7:M:426:GLN:NE2	2.05	1.18
7:M:1189:MET:CG	8:N:248:GLN:CG	2.20	1.18
5:K:316:VAL:CG1	5:K:348:ILE:HD12	1.52	1.18
7:O:1189:MET:CG	8:P:248:GLN:CG	2.20	1.18
3:1:492:TYR:O	3:1:511:VAL:HG13	1.00	1.18
11:X:289:SER:CA	11:X:294:ILE:CD1	2.13	1.18
5:B:323:LEU:HB2	5:B:342:LYS:NZ	1.57	1.17
4:G:810:ASN:HB2	9:S:35:ALA:CB	1.73	1.17
3:Z:918:MET:HA	3:Z:918:MET:HE3	1.18	1.17
7:M:1389:ILE:HG13	8:N:686:GLY:O	1.42	1.17
3:1:918:MET:HA	3:1:918:MET:HE3	1.18	1.17
5:B:320:GLU:OE1	5:B:348:ILE:HD13	1.22	1.17
4:D:795:LYS:HZ1	9:R:21:LYS:CB	1.44	1.17
4:D:796:ILE:HD13	5:E:513:LEU:CD2	1.75	1.17
7:O:1389:ILE:HG13	8:P:686:GLY:O	1.42	1.17
7:M:1382:TYR:CG	8:N:748:HIS:CE1	2.33	1.17
7:O:990:ILE:HG13	7:O:995:VAL:CG1	1.73	1.17
7:O:1382:TYR:CZ	8:P:744:LEU:HD23	1.78	1.17
9:T:675:VAL:CG2	9:T:728:PHE:HE2	1.57	1.17
9:R:675:VAL:CG2	9:R:728:PHE:HE2	1.57	1.16
10:U:268:LEU:CD1	10:U:283:ILE:HG13	1.74	1.16
3:1:1191:LEU:CD1	3:1:1213:LEU:CD2	2.23	1.16
1:n:353:UNK:CB	2:Y:1309:ASN:HD22	1.57	1.16
1:7:76:UNK:CB	9:R:429:THR:HB	1.74	1.16
8:N:275:LEU:HD11	8:N:382:PHE:CB	1.76	1.16
8:P:275:LEU:HD11	8:P:382:PHE:CB	1.76	1.16
1:8:76:UNK:CB	9:T:429:THR:HB	1.74	1.16
7:M:332:VAL:O	7:M:338:MET:O	1.64	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1:494:ASN:HB2	3:1:512:ARG:CA	1.76	1.15
7:O:332:VAL:O	7:O:338:MET:O	1.64	1.15
6:L:354:LEU:HD21	6:L:369:LEU:HD11	1.25	1.15
7:O:384:MET:HE1	7:O:760:ILE:HG23	1.24	1.15
5:E:517:GLN:HG3	9:R:24:GLU:CB	1.77	1.15
7:M:384:MET:HE1	7:M:760:ILE:HG23	1.23	1.15
8:N:216:TYR:CA	8:N:220:PHE:CD1	2.29	1.15
5:K:316:VAL:HG12	5:K:348:ILE:CD1	1.75	1.15
7:O:384:MET:CG	7:O:766:GLN:NE2	2.08	1.15
7:M:384:MET:CG	7:M:766:GLN:NE2	2.08	1.15
7:M:1189:MET:HE3	8:N:249:ASP:HA	1.29	1.15
7:M:1386:LYS:HG3	8:N:688:THR:HG23	1.19	1.15
7:O:1189:MET:HE3	8:P:249:ASP:HA	1.29	1.15
3:Z:1173:LEU:HB2	3:Z:1218:ILE:HG21	1.22	1.14
8:N:613:GLU:CG	8:N:617:TYR:CD1	2.30	1.14
7:O:1386:LYS:HG3	8:P:688:THR:HG23	1.19	1.14
8:P:613:GLU:CG	8:P:617:TYR:CD1	2.30	1.14
10:W:321:GLU:CB	11:X:293:HIS:CD2	2.28	1.14
3:Z:1213:LEU:HD13	3:Z:1215:TYR:CG	1.70	1.14
3:Z:1213:LEU:HD11	3:Z:1215:TYR:CD2	1.83	1.14
7:M:1191:SER:CB	8:N:757:LYS:CA	2.24	1.14
3:1:1173:LEU:CD2	3:1:1218:ILE:CD1	2.24	1.14
7:O:1191:SER:CB	8:P:757:LYS:CA	2.24	1.14
9:T:278:LEU:HD22	9:T:433:GLU:HB3	1.19	1.14
1:7:76:UNK:CB	9:R:429:THR:CG2	2.26	1.14
1:e:453:UNK:CA	8:N:534:GLN:HE22	1.60	1.14
5:B:323:LEU:CD1	5:B:339:MET:N	2.10	1.14
7:M:1189:MET:CB	8:N:248:GLN:CG	2.23	1.14
10:U:321:GLU:CB	11:V:293:HIS:CD2	2.28	1.14
11:V:355:TRP:CD1	11:V:400:ILE:CB	2.30	1.14
7:O:1189:MET:CB	8:P:248:GLN:CG	2.23	1.14
8:P:275:LEU:CD1	8:P:382:PHE:HB2	1.76	1.14
11:X:355:TRP:CD1	11:X:400:ILE:CB	2.30	1.14
8:N:275:LEU:CD1	8:N:382:PHE:HB2	1.77	1.14
9:R:278:LEU:HD22	9:R:433:GLU:HB3	1.19	1.14
1:7:76:UNK:CB	9:R:429:THR:HG21	1.76	1.13
2:0:516:LEU:HD21	2:0:598:PHE:CZ	1.81	1.13
1:m:350:UNK:N	2:0:1305:SER:CB	2.11	1.13
8:N:613:GLU:CG	8:N:617:TYR:CD2	2.30	1.13
5:K:316:VAL:HG13	5:K:348:ILE:CD1	1.61	1.13
8:P:613:GLU:CG	8:P:617:TYR:CD2	2.30	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:76:UNK:CB	9:T:429:THR:CG2	2.26	1.13
7:M:1393:ASN:HD21	8:N:687:LYS:HE2	1.09	1.13
1:8:76:UNK:CB	9:T:429:THR:HG21	1.77	1.13
7:M:381:THR:HA	7:M:703:TYR:CB	1.79	1.12
3:1:492:TYR:O	3:1:511:VAL:CG1	1.96	1.12
6:L:434:THR:HA	6:L:438:ALA:HB2	1.21	1.13
7:O:381:THR:HA	7:O:703:TYR:CB	1.79	1.12
4:A:800:HIS:CE1	9:Q:27:GLU:CB	2.31	1.12
3:1:493:ILE:HG22	3:1:512:ARG:O	1.46	1.12
10:W:276:ILE:HG13	10:W:283:ILE:HD11	1.29	1.12
1:e:453:UNK:HA	8:N:534:GLN:HE22	1.11	1.12
1:g:238:UNK:CB	7:O:123:CYS:CB	2.28	1.12
7:M:1336:ILE:HD13	7:M:1383:GLN:HG3	1.18	1.12
7:O:984:THR:O	7:O:988:SER:N	1.83	1.12
10:U:268:LEU:HD12	10:U:283:ILE:HG13	1.14	1.12
7:M:1560:GLY:C	7:M:1580:VAL:HG21	1.74	1.11
7:O:1560:GLY:C	7:O:1580:VAL:HG21	1.74	1.11
8:P:529:LEU:HD21	8:P:531:ILE:HD11	1.23	1.11
8:N:65:SER:OG	8:N:83:VAL:HG11	1.50	1.11
8:N:613:GLU:CG	8:N:617:TYR:CZ	2.33	1.11
2:0:516:LEU:CD2	2:0:535:VAL:HG11	1.80	1.11
3:1:1177:VAL:HG22	3:1:1215:TYR:CZ	1.82	1.11
7:O:1336:ILE:HD13	7:O:1383:GLN:HG3	1.18	1.11
8:P:613:GLU:CG	8:P:617:TYR:CZ	2.33	1.11
8:N:613:GLU:CG	8:N:617:TYR:CE1	2.32	1.11
7:O:381:THR:HA	7:O:703:TYR:HB3	1.22	1.11
1:b:268:UNK:CB	7:M:1038:LEU:HD12	1.71	1.11
4:J:669:LEU:HD21	5:K:369:VAL:HG12	1.33	1.11
8:P:613:GLU:CG	8:P:617:TYR:CE1	2.32	1.11
7:M:381:THR:HA	7:M:703:TYR:HB3	1.22	1.10
5:K:380:LEU:CD2	6:L:314:TYR:HE2	1.64	1.10
5:E:380:LEU:CD2	6:F:314:TYR:HE2	1.63	1.10
7:O:1189:MET:HB3	8:P:248:GLN:HG2	1.16	1.10
9:T:668:SER:HB3	9:T:673:PRO:HB2	1.20	1.10
5:E:517:GLN:HE21	9:R:24:GLU:CA	1.63	1.10
7:M:383:ASN:O	7:M:766:GLN:HB3	1.52	1.10
7:M:1189:MET:HB3	8:N:248:GLN:HG2	1.16	1.10
8:N:613:GLU:CG	8:N:617:TYR:CE2	2.35	1.10
8:N:741:LYS:O	8:N:744:LEU:HG	1.52	1.10
7:O:383:ASN:O	7:O:766:GLN:HB3	1.52	1.10
8:P:613:GLU:CG	8:P:617:TYR:CE2	2.35	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:239:UNK:CA	7:O:119:PHE:CE2	2.35	1.10
10:U:266:ILE:HG13	10:U:336:ASN:HD22	0.94	1.10
11:X:273:VAL:HB	11:X:356:VAL:HG22	1.34	1.10
5:B:323:LEU:CD2	5:B:338:ALA:HB3	1.80	1.10
5:B:323:LEU:HD22	5:B:338:ALA:HB3	1.34	1.10
9:R:668:SER:HB3	9:R:673:PRO:HB2	1.20	1.10
10:U:268:LEU:HD12	10:U:283:ILE:CG1	1.82	1.10
11:V:273:VAL:HB	11:V:356:VAL:HG22	1.34	1.10
7:O:1386:LYS:CG	8:P:688:THR:HG22	1.59	1.10
7:M:1386:LYS:CG	8:N:688:THR:HG22	1.59	1.09
9:R:432:ILE:HD11	9:R:477:TYR:CG	1.88	1.09
9:T:432:ILE:HD11	9:T:477:TYR:CG	1.88	1.09
2:0:516:LEU:HD23	2:0:535:VAL:HG11	1.11	1.09
5:K:360:GLN:O	5:K:363:GLN:HG2	1.52	1.09
7:O:1392:ILE:HG12	7:O:1437:LEU:CD1	1.81	1.09
5:E:360:GLN:O	5:E:363:GLN:HG2	1.52	1.09
7:M:1393:ASN:HD21	8:N:687:LYS:CE	1.65	1.09
3:1:1183:ILE:HG13	3:1:1213:LEU:HD11	1.17	1.09
7:O:1189:MET:CA	8:P:249:ASP:OD1	2.00	1.09
7:O:1382:TYR:CE2	8:P:748:HIS:CE1	2.41	1.09
1:3:2:UNK:H	5:E:316:VAL:HB	1.11	1.09
7:M:1392:ILE:HG12	7:M:1437:LEU:CD1	1.81	1.09
7:M:1408:LEU:O	7:M:1412:TYR:CD2	2.03	1.09
9:Q:601:PRO:HB2	9:Q:605:GLU:HB2	1.24	1.09
1:e:453:UNK:CB	8:N:534:GLN:OE1	2.00	1.09
4:A:803:ALA:HB1	9:Q:31:ASN:CB	1.82	1.09
6:F:455:GLU:OE1	6:F:456:ARG:HD2	1.52	1.09
11:V:273:VAL:CG2	11:V:356:VAL:HG23	1.81	1.09
2:0:1310:ASP:OD2	2:0:1311:PHE:CE2	2.05	1.09
11:X:273:VAL:CG2	11:X:356:VAL:HG23	1.81	1.09
8:N:613:GLU:CD	8:N:617:TYR:CG	2.31	1.08
7:O:1408:LEU:O	7:O:1412:TYR:CD2	2.03	1.08
8:P:613:GLU:CD	8:P:617:TYR:CG	2.31	1.08
3:Z:1210:ALA:HB2	3:Z:1218:ILE:CD1	1.83	1.08
9:Q:594:GLY:HA3	10:U:324:LYS:HE2	1.30	1.08
9:R:407:TYR:CE1	9:R:428:VAL:HG12	1.88	1.08
3:1:494:ASN:CB	3:1:512:ARG:HB3	1.83	1.08
9:T:407:TYR:CE1	9:T:428:VAL:HG12	1.88	1.08
5:K:318:GLU:HA	5:K:346:GLN:HA	1.09	1.08
9:Q:594:GLY:HA2	10:U:324:LYS:HE2	1.31	1.08
7:O:384:MET:HA	7:O:766:GLN:OE1	1.51	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:613:GLU:CG	8:P:617:TYR:CG	2.35	1.08
11:X:273:VAL:HG23	11:X:356:VAL:O	1.54	1.08
1:4:2:UNK:H	5:K:316:VAL:HB	1.17	1.08
7:M:1189:MET:CG	8:N:248:GLN:CB	2.32	1.08
8:N:613:GLU:CG	8:N:617:TYR:CG	2.35	1.08
11:V:273:VAL:HG23	11:V:356:VAL:O	1.53	1.08
7:O:1189:MET:CG	8:P:248:GLN:CB	2.32	1.08
7:O:1386:LYS:HG2	8:P:688:THR:HG21	1.27	1.08
7:M:384:MET:HA	7:M:766:GLN:OE1	1.51	1.07
7:M:1386:LYS:HG2	8:N:688:THR:HG21	1.28	1.07
3:1:1173:LEU:CD2	3:1:1218:ILE:HD11	1.84	1.07
5:K:317:ASN:HD22	5:K:348:ILE:HD13	1.19	1.07
3:1:917:GLU:HG3	3:1:918:MET:H	1.18	1.07
9:S:594:GLY:HA3	10:W:324:LYS:HE2	1.30	1.07
3:Z:917:GLU:HG3	3:Z:918:MET:H	1.17	1.07
3:Z:1210:ALA:HB2	3:Z:1218:ILE:HD12	1.26	1.07
3:Z:1213:LEU:CD1	3:Z:1215:TYR:CD2	2.35	1.07
9:S:594:GLY:HA2	10:W:324:LYS:HE2	1.31	1.07
5:B:320:GLU:OE1	5:B:348:ILE:HD11	1.55	1.07
10:W:271:ALA:HA	10:W:283:ILE:HG21	1.28	1.07
7:M:1189:MET:HE1	8:N:252:TYR:CB	1.83	1.06
8:N:613:GLU:CD	8:N:617:TYR:CZ	2.33	1.06
5:B:323:LEU:CB	5:B:342:LYS:HZ1	1.66	1.06
8:N:216:TYR:HA	8:N:220:PHE:CE1	1.89	1.06
3:1:1173:LEU:HD23	3:1:1218:ILE:CD1	1.84	1.06
3:1:1191:LEU:CD1	3:1:1213:LEU:HD22	1.80	1.06
7:O:1189:MET:HE1	8:P:252:TYR:CB	1.83	1.06
7:O:1191:SER:HB2	8:P:757:LYS:HB3	1.38	1.06
8:P:613:GLU:CD	8:P:617:TYR:CZ	2.34	1.06
10:W:321:GLU:CB	11:X:293:HIS:HD2	1.63	1.06
7:M:1191:SER:HB2	8:N:757:LYS:HB3	1.38	1.06
10:U:321:GLU:CB	11:V:293:HIS:HD2	1.63	1.06
1:l:284:UNK:CB	6:I:358:LEU:HB3	1.84	1.06
8:N:761:PHE:HE2	8:N:765:PHE:CE2	1.73	1.06
7:O:1374:LYS:HE3	7:O:1418:SER:O	1.54	1.06
1:g:239:UNK:CA	7:O:119:PHE:HE2	1.69	1.05
8:N:216:TYR:CA	8:N:220:PHE:HD1	1.68	1.05
1:e:453:UNK:CB	8:N:534:GLN:HE22	1.69	1.05
8:N:613:GLU:CD	8:N:617:TYR:CE2	2.34	1.05
11:V:274:PHE:HA	11:V:355:TRP:HA	1.32	1.05
8:P:613:GLU:CD	8:P:617:TYR:CE2	2.35	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:761:PHE:HE2	8:P:765:PHE:CE2	1.73	1.05
11:X:298:PHE:HD1	11:X:299:GLN:HG3	1.20	1.05
3:Z:1215:TYR:HB2	3:Z:1218:ILE:HD11	1.38	1.05
8:N:761:PHE:CZ	8:N:765:PHE:CZ	2.43	1.05
2:0:516:LEU:HA	2:0:537:LYS:NZ	1.70	1.05
3:1:1177:VAL:HG21	3:1:1215:TYR:CZ	1.88	1.05
8:P:761:PHE:CZ	8:P:765:PHE:CZ	2.43	1.05
11:X:274:PHE:HA	11:X:355:TRP:HA	1.32	1.05
1:7:72:UNK:CB	9:R:426:PRO:CB	2.35	1.05
2:Y:1019:ARG:CB	9:R:246:ASN:HB2	1.86	1.05
8:P:227:ILE:HD13	8:P:255:GLU:HG2	1.06	1.05
10:U:268:LEU:HA	10:U:283:ILE:HD12	1.38	1.05
11:V:273:VAL:CB	11:V:356:VAL:O	2.05	1.05
2:0:1019:ARG:CB	9:T:246:ASN:HB2	1.86	1.05
3:1:1184:ASP:HB2	3:1:1187:TYR:HD2	1.14	1.05
11:X:273:VAL:CB	11:X:356:VAL:O	2.05	1.04
7:M:1382:TYR:CE2	8:N:748:HIS:CE1	2.41	1.04
3:1:1173:LEU:HB3	3:1:1218:ILE:HD13	1.35	1.04
7:O:1382:TYR:CG	8:P:748:HIS:HE1	1.75	1.04
8:P:613:GLU:CD	8:P:617:TYR:CD1	2.35	1.04
1:3:4:UNK:CB	5:E:316:VAL:HG23	1.88	1.04
5:E:317:ASN:O	5:E:348:ILE:HD11	1.56	1.04
7:M:1189:MET:HE1	8:N:252:TYR:HB3	1.34	1.04
8:N:613:GLU:CD	8:N:617:TYR:CD1	2.35	1.04
10:U:321:GLU:HB2	11:V:293:HIS:NE2	1.72	1.04
7:O:1189:MET:HE1	8:P:252:TYR:HB3	1.34	1.04
10:W:321:GLU:HB2	11:X:293:HIS:NE2	1.72	1.04
7:M:1562:ASP:OD2	9:T:173:LYS:CB	2.05	1.04
11:X:274:PHE:HB3	11:X:355:TRP:CD2	1.93	1.04
8:N:64:SER:CB	8:N:73:SER:OG	2.06	1.03
11:V:274:PHE:HB3	11:V:355:TRP:CD2	1.93	1.03
5:H:413:LEU:CA	6:I:373:PHE:HE2	1.68	1.03
1:b:246:UNK:CB	7:M:12:TYR:CZ	2.41	1.03
1:g:246:UNK:CB	7:O:12:TYR:CZ	2.41	1.03
1:n:350:UNK:N	2:Y:1305:SER:CB	2.21	1.03
3:Z:1215:TYR:HB2	3:Z:1218:ILE:CD1	1.87	1.03
4:A:709:ASN:ND2	4:D:631:SER:O	1.90	1.03
2:0:516:LEU:HD23	2:0:535:VAL:CG1	1.88	1.03
5:K:316:VAL:HG11	5:K:348:ILE:HD12	1.38	1.03
1:g:238:UNK:C	7:O:119:PHE:CD2	2.42	1.03
7:M:1191:SER:CB	8:N:757:LYS:CB	2.35	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:M:1386:LYS:HG2	8:N:688:THR:HG22	1.09	1.03
8:N:223:PHE:CE2	8:N:258:ILE:HG22	1.94	1.03
10:U:266:ILE:CG1	10:U:336:ASN:ND2	2.21	1.03
4:G:709:ASN:ND2	4:J:631:SER:O	1.90	1.03
7:O:1191:SER:CB	8:P:757:LYS:CB	2.35	1.03
10:W:276:ILE:HG13	10:W:283:ILE:HD12	1.34	1.03
5:B:323:LEU:HB3	5:B:335:TRP:HH2	1.18	1.03
7:M:341:PHE:CZ	7:M:652:ALA:CA	2.40	1.03
3:1:493:ILE:HD12	3:1:513:LYS:HD3	1.40	1.03
7:O:341:PHE:CZ	7:O:652:ALA:CA	2.40	1.03
5:E:314:ASN:OD1	5:E:348:ILE:HD12	1.59	1.02
8:N:613:GLU:CD	8:N:617:TYR:CE1	2.36	1.02
3:1:493:ILE:HG22	3:1:494:ASN:N	1.60	1.02
5:K:317:ASN:ND2	5:K:348:ILE:CD1	2.22	1.02
10:U:268:LEU:HA	10:U:283:ILE:CG1	1.89	1.02
11:V:394:GLN:O	11:V:398:CYS:HA	1.59	1.02
3:1:493:ILE:CG2	3:1:512:ARG:O	2.07	1.02
3:1:1191:LEU:HD12	3:1:1213:LEU:HD22	1.39	1.02
7:O:1386:LYS:HG2	8:P:688:THR:HG22	1.09	1.02
8:P:613:GLU:CD	8:P:617:TYR:CE1	2.36	1.02
11:X:394:GLN:O	11:X:398:CYS:HA	1.58	1.02
1:g:268:UNK:CB	7:O:1038:LEU:HD13	1.86	1.02
10:U:266:ILE:HG13	10:U:336:ASN:ND2	1.75	1.02
5:K:317:ASN:HB2	5:K:348:ILE:HG12	1.41	1.02
7:O:341:PHE:HZ	7:O:652:ALA:HA	1.10	1.02
1:3:2:UNK:N	5:E:316:VAL:CB	2.17	1.01
1:e:453:UNK:HA	8:N:534:GLN:NE2	1.75	1.01
1:g:241:UNK:CB	7:O:426:GLN:HE22	1.72	1.01
7:M:1189:MET:HG2	8:N:248:GLN:HB2	1.03	1.01
7:M:1192:VAL:HG12	7:M:1193:ARG:H	1.24	1.01
7:O:1189:MET:HG2	8:P:248:GLN:HB2	1.03	1.01
10:W:266:ILE:CG1	10:W:336:ASN:OD1	2.08	1.01
7:O:990:ILE:HG13	7:O:995:VAL:HG13	1.04	1.01
11:X:273:VAL:CG1	11:X:356:VAL:CG2	2.38	1.01
1:7:72:UNK:CA	9:R:426:PRO:HB3	1.88	1.01
1:7:80:UNK:CB	9:R:431:SER:C	2.33	1.01
5:B:323:LEU:HD12	5:B:339:MET:HA	1.04	1.01
7:M:1561:LEU:C	7:M:1580:VAL:CG1	2.33	1.01
8:N:227:ILE:HD11	8:N:258:ILE:HG21	1.42	1.01
11:V:273:VAL:CG1	11:V:356:VAL:CG2	2.38	1.01
11:V:275:GLY:N	11:V:354:SER:O	1.93	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1:493:ILE:CG2	3:1:494:ASN:H	1.70	1.01
3:1:494:ASN:HB3	3:1:512:ARG:HB2	1.41	1.01
7:O:1192:VAL:HG12	7:O:1193:ARG:H	1.24	1.01
7:O:1385:PHE:CE1	7:O:1426:VAL:HG22	1.94	1.01
1:8:80:UNK:CB	9:T:431:SER:C	2.33	1.01
1:c:313:UNK:O	1:c:317:UNK:N	1.91	1.01
4:D:807:LEU:HD21	5:E:524:ASN:OD1	1.60	1.01
5:E:456:THR:O	5:E:460:TRP:HD1	1.37	1.01
7:M:341:PHE:HZ	7:M:652:ALA:HA	1.10	1.01
4:G:810:ASN:HB2	9:S:35:ALA:HB3	1.37	1.01
7:O:1561:LEU:C	7:O:1580:VAL:CG1	2.33	1.01
11:X:275:GLY:N	11:X:354:SER:O	1.93	1.01
3:Z:1213:LEU:HD13	3:Z:1215:TYR:CE1	1.95	1.01
7:M:1189:MET:CA	8:N:248:GLN:HG2	1.91	1.01
8:N:274:GLY:HA2	8:N:284:ILE:CB	1.89	1.01
5:K:456:THR:O	5:K:460:TRP:HD1	1.37	1.01
7:O:1189:MET:CA	8:P:248:GLN:HG2	1.91	1.01
5:B:323:LEU:HD22	5:B:338:ALA:CB	1.84	1.00
5:K:316:VAL:HG12	5:K:348:ILE:HD12	1.33	1.00
8:P:274:GLY:HA2	8:P:284:ILE:CB	1.89	1.00
1:e:453:UNK:CB	8:N:534:GLN:NE2	2.25	1.00
5:B:323:LEU:HB2	5:B:342:LYS:HZ2	1.26	1.00
7:M:384:MET:CG	7:M:766:GLN:HE22	1.70	1.00
7:M:1189:MET:HB3	8:N:248:GLN:CG	1.86	1.00
3:1:492:TYR:C	3:1:511:VAL:HG13	1.86	1.00
5:H:322:ILE:HG22	5:H:335:TRP:HH2	1.26	1.00
8:P:613:GLU:HG3	8:P:617:TYR:CE1	1.92	1.00
5:B:323:LEU:CD2	5:B:338:ALA:C	2.35	1.00
5:K:317:ASN:HD22	5:K:348:ILE:CD1	1.74	1.00
7:O:384:MET:CG	7:O:766:GLN:HE22	1.70	1.00
2:Y:1020:ASN:HB2	9:R:247:GLY:HA3	1.42	1.00
2:0:1020:ASN:HB2	9:T:247:GLY:HA3	1.42	1.00
5:B:323:LEU:HD21	5:B:338:ALA:CB	1.66	1.00
8:N:613:GLU:HG3	8:N:617:TYR:CE1	1.92	1.00
7:M:1382:TYR:CD1	8:N:748:HIS:HE1	1.78	1.00
11:V:275:GLY:H	11:V:354:SER:HB2	1.27	1.00
7:O:1189:MET:HB3	8:P:248:GLN:CG	1.86	1.00
7:M:1389:ILE:CG1	8:N:686:GLY:O	2.09	0.99
3:1:1173:LEU:HD22	3:1:1218:ILE:CD1	1.89	0.99
11:X:275:GLY:H	11:X:354:SER:HB2	1.27	0.99
8:N:613:GLU:CD	8:N:617:TYR:CD2	2.40	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1:1177:VAL:HG22	3:1:1215:TYR:CE1	1.96	0.99
7:O:1191:SER:HB2	8:P:757:LYS:CB	1.92	0.99
8:P:613:GLU:CD	8:P:617:TYR:CD2	2.40	0.99
1:b:268:UNK:CA	7:M:1038:LEU:CD1	2.40	0.99
7:O:1389:ILE:CG1	8:P:686:GLY:O	2.09	0.99
10:W:271:ALA:HA	10:W:283:ILE:CG2	1.90	0.99
7:M:1191:SER:HB2	8:N:757:LYS:CB	1.93	0.99
3:1:493:ILE:HG22	3:1:494:ASN:H	0.85	0.99
7:M:1189:MET:SD	8:N:248:GLN:O	2.20	0.99
6:L:434:THR:HA	6:L:438:ALA:CB	1.92	0.99
11:X:274:PHE:HB3	11:X:355:TRP:CE3	1.96	0.99
5:E:517:GLN:NE2	9:R:24:GLU:CB	2.25	0.99
7:O:1189:MET:SD	8:P:248:GLN:O	2.20	0.99
7:O:1392:ILE:CD1	7:O:1437:LEU:HD13	1.93	0.99
7:M:1392:ILE:CD1	7:M:1437:LEU:HD13	1.93	0.99
11:V:274:PHE:HB3	11:V:355:TRP:CE3	1.97	0.99
3:Z:1173:LEU:CB	3:Z:1218:ILE:HG21	1.93	0.99
8:P:761:PHE:HE1	8:P:764:LYS:HD3	0.98	0.99
7:O:1561:LEU:N	7:O:1580:VAL:CG2	2.26	0.99
1:k:288:UNK:CB	5:E:370:ALA:HB3	1.89	0.99
9:T:429:THR:HG23	9:T:434:ASP:HB3	1.45	0.99
5:B:323:LEU:CB	5:B:335:TRP:HH2	1.75	0.98
7:M:1561:LEU:N	7:M:1580:VAL:CG2	2.26	0.98
7:M:1336:ILE:CD1	7:M:1383:GLN:HG3	1.91	0.98
8:N:761:PHE:CE2	8:N:765:PHE:CE2	2.50	0.98
9:R:429:THR:HG23	9:R:434:ASP:HB3	1.45	0.98
7:O:1382:TYR:CD2	8:P:748:HIS:ND1	2.32	0.98
11:X:273:VAL:CG2	11:X:356:VAL:O	2.09	0.98
4:A:800:HIS:HE1	9:Q:27:GLU:CB	1.72	0.98
9:Q:589:LEU:HA	9:Q:603:VAL:HG21	1.44	0.98
11:V:273:VAL:CG2	11:V:356:VAL:O	2.09	0.98
7:O:1336:ILE:CD1	7:O:1383:GLN:HG3	1.91	0.98
9:T:675:VAL:HG22	9:T:728:PHE:HE2	1.26	0.98
3:Z:1213:LEU:HD21	3:Z:1215:TYR:CE2	1.92	0.98
8:N:761:PHE:HE1	8:N:764:LYS:HD3	0.98	0.98
7:O:1193:ARG:O	7:O:1195:PHE:N	1.97	0.98
7:M:1193:ARG:O	7:M:1195:PHE:N	1.97	0.98
9:R:675:VAL:HG22	9:R:728:PHE:HE2	1.26	0.98
8:P:761:PHE:CE2	8:P:765:PHE:CE2	2.50	0.98
1:4:5:UNK:CB	5:K:315:LYS:CD	2.41	0.98
3:Z:1173:LEU:HB3	3:Z:1218:ILE:HG22	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:2:UNK:H2	5:K:314:ASN:ND2	1.59	0.98
11:V:289:SER:HA	11:V:294:ILE:HD12	1.45	0.97
3:Z:1173:LEU:CD2	3:Z:1205:LEU:HD21	1.94	0.97
3:1:1183:ILE:CG1	3:1:1213:LEU:HD11	1.94	0.97
1:g:268:UNK:CB	7:O:1038:LEU:HD12	1.92	0.97
9:T:325:LEU:H	11:X:376:ILE:HG13	1.28	0.97
11:X:289:SER:HA	11:X:294:ILE:CD1	1.83	0.97
5:H:322:ILE:HG22	5:H:335:TRP:CH2	2.00	0.97
8:N:225:ARG:O	8:N:228:ASN:HB2	1.63	0.97
3:1:1191:LEU:CD1	3:1:1213:LEU:HD23	1.93	0.97
9:R:325:LEU:H	11:V:376:ILE:HG13	1.28	0.97
1:b:238:UNK:CB	7:M:122:ASN:HB2	1.95	0.97
9:Q:601:PRO:HB2	9:Q:605:GLU:CB	1.95	0.97
3:1:494:ASN:CG	3:1:512:ARG:O	2.08	0.97
9:S:593:ILE:CG2	9:S:600:ILE:HG13	1.93	0.97
3:Z:917:GLU:HB2	3:Z:957:LEU:HD13	1.42	0.96
7:M:1189:MET:N	8:N:248:GLN:CG	2.28	0.96
5:K:317:ASN:HB2	5:K:348:ILE:CG1	1.94	0.96
7:O:1189:MET:HA	8:P:249:ASP:OD1	1.64	0.96
11:X:294:ILE:HA	11:X:361:ASN:ND2	1.80	0.96
1:n:361:UNK:CB	2:Y:1314:PRO:HB3	1.96	0.96
11:V:355:TRP:NE1	11:V:400:ILE:CB	2.26	0.96
1:4:5:UNK:CA	5:K:315:LYS:HD3	1.95	0.96
7:M:1189:MET:CG	8:N:248:GLN:HB2	1.95	0.96
2:0:518:GLU:HB2	2:0:536:ILE:O	1.65	0.96
7:O:1189:MET:N	8:P:248:GLN:CG	2.28	0.96
8:P:227:ILE:CD1	8:P:255:GLU:HG2	1.95	0.96
1:m:353:UNK:CB	2:0:1309:ASN:ND2	2.27	0.96
7:O:1189:MET:CG	8:P:248:GLN:HB2	1.95	0.96
7:M:1189:MET:H	8:N:248:GLN:HG3	1.28	0.96
9:T:339:TYR:CE1	9:T:342:ARG:NH1	2.33	0.96
11:X:355:TRP:NE1	11:X:400:ILE:CB	2.27	0.96
9:R:339:TYR:CE1	9:R:342:ARG:NH1	2.33	0.96
3:1:917:GLU:HB2	3:1:957:LEU:HD13	1.42	0.96
5:K:318:GLU:HA	5:K:346:GLN:CA	1.95	0.96
1:g:239:UNK:HA	7:O:119:PHE:CD2	2.00	0.96
3:1:1184:ASP:HB2	3:1:1187:TYR:CD2	2.00	0.96
7:O:1382:TYR:CZ	8:P:744:LEU:CD2	2.48	0.96
1:4:2:UNK:N	5:K:316:VAL:HB	1.80	0.96
2:Y:1358:GLU:HB3	3:1:787:ALA:N	1.81	0.96
7:O:1189:MET:H	8:P:248:GLN:HG3	1.29	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:1382:TYR:HD2	8:P:748:HIS:ND1	1.62	0.96
9:T:672:GLN:HB3	9:T:673:PRO:HD3	1.47	0.96
1:d:393:UNK:O	8:N:330:TYR:CD2	2.19	0.95
10:U:268:LEU:C	10:U:283:ILE:HD11	1.91	0.95
7:O:1191:SER:CB	8:P:757:LYS:HB3	1.95	0.95
8:P:1357:CYS:SG	9:T:453:VAL:CG1	2.53	0.95
7:M:1191:SER:CB	8:N:757:LYS:HB3	1.95	0.95
7:M:1392:ILE:HG21	7:M:1437:LEU:N	1.81	0.95
8:N:1357:CYS:SG	9:R:453:VAL:CG1	2.54	0.95
9:R:672:GLN:HB3	9:R:673:PRO:HD3	1.47	0.95
2:0:516:LEU:HA	2:0:537:LYS:HZ2	1.31	0.95
7:O:1380:ARG:HH11	7:O:1415:ARG:HE	1.13	0.95
10:W:304:LYS:HZ3	11:X:387:TYR:C	1.74	0.95
7:M:1392:ILE:HG21	7:M:1437:LEU:CA	1.96	0.95
5:K:317:ASN:ND2	5:K:348:ILE:HD11	1.79	0.95
7:O:1392:ILE:HG21	7:O:1437:LEU:N	1.81	0.95
1:b:245:UNK:CB	7:M:115:GLN:CG	2.45	0.95
1:g:245:UNK:CB	7:O:115:GLN:CG	2.45	0.95
3:Z:1173:LEU:CB	3:Z:1218:ILE:CG2	2.44	0.95
7:M:341:PHE:CZ	7:M:652:ALA:CB	2.48	0.95
3:1:493:ILE:CD1	3:1:513:LYS:HD3	1.95	0.95
7:O:341:PHE:CZ	7:O:652:ALA:CB	2.48	0.95
1:j:443:UNK:HA	8:P:529:LEU:CD1	1.96	0.95
3:1:1199:VAL:O	3:1:1200:LEU:HD23	1.66	0.95
7:M:384:MET:HG2	7:M:766:GLN:HE22	1.20	0.95
7:O:1392:ILE:HG21	7:O:1437:LEU:CA	1.96	0.95
1:8:72:UNK:CA	9:T:426:PRO:HB3	1.97	0.95
1:m:361:UNK:CB	2:0:1314:PRO:HB3	1.97	0.95
3:1:918:MET:HA	3:1:918:MET:CE	1.96	0.95
10:W:304:LYS:CB	11:X:270:ALA:O	2.14	0.94
1:d:393:UNK:O	8:N:330:TYR:CE2	2.20	0.94
3:Z:918:MET:HA	3:Z:918:MET:CE	1.96	0.94
3:Z:1213:LEU:HD22	3:Z:1215:TYR:CZ	2.01	0.94
7:M:384:MET:CE	7:M:760:ILE:HG23	1.96	0.94
7:M:1389:ILE:CG2	8:N:687:LYS:CG	2.11	0.94
11:X:296:GLU:O	11:X:346:LYS:HG3	1.65	0.94
1:e:453:UNK:CB	8:N:534:GLN:CD	2.41	0.94
5:E:517:GLN:NE2	9:R:24:GLU:C	2.25	0.94
8:N:741:LYS:HA	8:N:744:LEU:CD2	1.96	0.94
10:W:276:ILE:CD1	10:W:283:ILE:HD13	1.96	0.94
7:O:384:MET:HG2	7:O:766:GLN:HE22	1.20	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:384:MET:CE	7:O:760:ILE:HG23	1.97	0.94
4:D:636:THR:O	4:D:637:LEU:HB2	1.65	0.94
7:M:1642:LYS:HE3	7:O:1559:LEU:HD21	0.95	0.94
7:O:990:ILE:CG1	7:O:995:VAL:HG13	1.98	0.94
8:N:74:THR:HG21	8:N:162:HIS:CE1	2.02	0.94
8:N:613:GLU:HG2	8:N:617:TYR:CG	2.01	0.94
9:T:312:LYS:HE2	9:T:430:LEU:HD22	1.48	0.94
1:g:239:UNK:HA	7:O:119:PHE:HE2	1.21	0.94
4:A:803:ALA:CB	9:Q:31:ASN:CB	2.45	0.94
9:R:312:LYS:HE2	9:R:430:LEU:HD22	1.47	0.94
10:W:276:ILE:HG13	10:W:283:ILE:HD13	1.49	0.93
1:4:2:UNK:N	5:K:314:ASN:CG	2.26	0.93
1:4:2:UNK:N	5:K:314:ASN:OD1	2.01	0.93
3:Z:1191:LEU:CD1	3:Z:1215:TYR:OH	2.16	0.93
8:N:223:PHE:HE2	8:N:258:ILE:HG22	1.31	0.93
5:K:380:LEU:CD2	6:L:314:TYR:CE2	2.51	0.93
8:P:613:GLU:HG2	8:P:617:TYR:CG	2.01	0.93
1:4:2:UNK:N	5:K:314:ASN:ND2	2.16	0.93
5:E:380:LEU:CD2	6:F:314:TYR:CE2	2.51	0.93
1:m:350:UNK:CA	2:0:1305:SER:CB	2.46	0.93
7:O:383:ASN:O	7:O:766:GLN:CB	2.16	0.93
7:O:1381:LEU:HD11	7:O:1385:PHE:HZ	1.17	0.93
7:M:383:ASN:O	7:M:766:GLN:CB	2.16	0.93
7:M:1683:ASP:O	9:R:171:HIS:CB	2.16	0.93
7:O:1385:PHE:HE1	7:O:1426:VAL:HG22	1.34	0.93
3:Z:1174:LEU:O	3:Z:1177:VAL:HG12	1.69	0.93
10:U:268:LEU:N	10:U:283:ILE:HD11	1.83	0.93
4:J:793:LEU:HB3	6:L:439:ILE:CG2	1.99	0.93
6:L:455:GLU:OE1	9:T:71:TYR:CB	2.17	0.93
11:X:298:PHE:CD1	11:X:299:GLN:HG3	2.04	0.93
1:8:70:UNK:CB	9:T:469:TYR:CE1	2.51	0.92
4:D:793:LEU:HB3	6:F:439:ILE:CG2	1.99	0.92
9:T:672:GLN:HB3	9:T:673:PRO:CD	1.98	0.92
1:e:425:UNK:O	1:e:429:UNK:CB	2.17	0.92
7:M:1559:LEU:HD21	7:O:1642:LYS:HE3	0.93	0.92
3:1:1173:LEU:HD23	3:1:1218:ILE:HD11	1.38	0.92
7:O:1189:MET:HB3	8:P:249:ASP:H	1.25	0.92
7:O:1191:SER:HB2	8:P:757:LYS:HA	1.49	0.92
7:M:1189:MET:HB3	8:N:249:ASP:H	1.25	0.92
8:N:74:THR:HG21	8:N:162:HIS:HE1	1.32	0.92
3:Z:1213:LEU:CD1	3:Z:1215:TYR:CD1	2.31	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:1381:LEU:HD11	7:O:1385:PHE:CE2	2.04	0.92
9:S:21:LYS:O	9:S:25:LEU:CB	2.18	0.92
10:W:276:ILE:CG1	10:W:283:ILE:HD13	1.99	0.92
1:7:80:UNK:CA	9:R:430:LEU:O	2.16	0.92
1:8:80:UNK:CA	9:T:430:LEU:O	2.16	0.92
1:g:241:UNK:CB	7:O:426:GLN:NE2	2.32	0.92
1:8:72:UNK:CB	9:T:426:PRO:CB	2.46	0.92
3:Z:1210:ALA:CB	3:Z:1218:ILE:CD1	2.47	0.92
7:M:1191:SER:HB2	8:N:757:LYS:HA	1.49	0.92
7:O:990:ILE:HB	7:O:999:LYS:HZ1	1.35	0.92
1:m:342:UNK:CB	2:0:1261:ARG:HH12	1.83	0.92
9:R:21:LYS:O	9:R:25:LEU:CB	2.18	0.92
9:R:672:GLN:HB3	9:R:673:PRO:CD	1.98	0.91
5:B:323:LEU:CB	5:B:342:LYS:NZ	2.28	0.91
7:O:1189:MET:HB2	8:P:249:ASP:CA	1.99	0.91
7:O:1189:MET:HG3	7:O:1190:TYR:HD1	1.32	0.91
9:S:593:ILE:HG22	9:S:600:ILE:HG13	1.50	0.91
5:E:517:GLN:CG	9:R:24:GLU:CB	2.47	0.91
7:M:1189:MET:HB2	8:N:249:ASP:N	1.85	0.91
7:M:1189:MET:HB2	8:N:249:ASP:CA	1.99	0.91
7:M:1189:MET:HG3	7:M:1190:TYR:HD1	1.32	0.91
8:P:529:LEU:CD2	8:P:531:ILE:HD11	1.99	0.91
11:X:294:ILE:HA	11:X:361:ASN:HD21	1.34	0.91
1:b:241:UNK:CB	7:M:426:GLN:HE22	1.83	0.91
5:E:517:GLN:NE2	9:R:24:GLU:CA	2.32	0.91
5:E:517:GLN:NE2	9:R:24:GLU:O	2.03	0.91
7:O:1189:MET:HB2	8:P:249:ASP:N	1.85	0.91
1:c:313:UNK:O	1:c:318:UNK:N	2.04	0.91
5:B:323:LEU:CB	5:B:335:TRP:CH2	2.54	0.91
5:E:380:LEU:HD21	6:F:314:TYR:CE2	2.06	0.91
5:K:380:LEU:HD21	6:L:314:TYR:CE2	2.06	0.91
6:L:350:PHE:CZ	6:L:373:PHE:CZ	2.58	0.91
9:Q:116:ILE:HA	9:Q:120:GLU:CB	2.01	0.91
9:R:20:LYS:O	9:R:24:GLU:CB	2.19	0.91
5:K:316:VAL:O	5:K:348:ILE:HG13	1.69	0.91
7:O:1386:LYS:CD	8:P:688:THR:HG22	2.00	0.91
7:M:1386:LYS:CD	8:N:688:THR:HG22	2.00	0.90
3:Z:917:GLU:HB2	3:Z:957:LEU:CD1	2.01	0.90
5:B:323:LEU:HD23	5:B:338:ALA:HB1	0.92	0.90
7:M:1193:ARG:O	7:M:1196:SER:N	2.04	0.90
3:1:917:GLU:HB2	3:1:957:LEU:CD1	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:1392:ILE:HG12	7:O:1437:LEU:HD13	1.53	0.90
9:T:21:LYS:O	9:T:25:LEU:CB	2.18	0.90
7:M:1392:ILE:HG12	7:M:1437:LEU:HD13	1.53	0.90
3:1:1191:LEU:HD13	3:1:1213:LEU:HD23	1.50	0.90
7:O:1193:ARG:O	7:O:1196:SER:N	2.04	0.90
7:O:985:GLN:HA	7:O:988:SER:HB3	1.54	0.90
11:X:289:SER:HA	11:X:294:ILE:HD13	0.91	0.90
5:H:413:LEU:HB3	6:I:373:PHE:CE2	2.03	0.90
8:N:64:SER:HB3	8:N:73:SER:HG	1.09	0.90
8:N:761:PHE:HE1	8:N:764:LYS:CD	1.84	0.90
9:R:338:PHE:CE2	9:R:342:ARG:HD2	2.07	0.90
9:S:20:LYS:O	9:S:24:GLU:CB	2.19	0.90
9:T:338:PHE:CE2	9:T:342:ARG:HD2	2.07	0.90
4:D:796:ILE:HD13	5:E:513:LEU:HD21	0.91	0.90
2:0:516:LEU:CD2	2:0:598:PHE:HZ	1.85	0.90
3:1:1170:GLN:OE1	3:1:1205:LEU:HD21	1.70	0.90
3:Z:1213:LEU:HD21	3:Z:1215:TYR:CD2	2.07	0.90
7:M:1558:ASP:HA	7:M:1582:LEU:HD21	1.54	0.90
8:N:761:PHE:HZ	8:N:765:PHE:CZ	1.86	0.90
8:P:761:PHE:HE1	8:P:764:LYS:CD	1.84	0.90
1:m:350:UNK:CA	2:0:1305:SER:HB3	2.02	0.89
3:Z:1191:LEU:HD13	3:Z:1215:TYR:CZ	2.06	0.89
9:T:20:LYS:O	9:T:24:GLU:CB	2.19	0.89
8:P:761:PHE:HZ	8:P:765:PHE:CZ	1.86	0.89
7:O:1558:ASP:HA	7:O:1582:LEU:HD21	1.54	0.89
1:3:4:UNK:N	5:E:316:VAL:HG23	1.88	0.89
1:k:287:UNK:CB	5:E:366:THR:HG22	1.99	0.89
3:Z:1199:VAL:O	3:Z:1200:LEU:HD23	1.72	0.89
7:M:1585:PRO:HA	7:M:1659:ASN:HD21	1.36	0.89
7:M:1392:ILE:CG1	7:M:1437:LEU:HD13	2.02	0.89
3:1:1213:LEU:HG	3:1:1213:LEU:O	1.69	0.89
11:X:289:SER:CB	11:X:294:ILE:HD12	1.99	0.89
1:n:342:UNK:CB	2:Y:1261:ARG:HH12	1.85	0.89
7:O:1392:ILE:CG1	7:O:1437:LEU:HD13	2.02	0.89
7:O:1585:PRO:HA	7:O:1659:ASN:HD21	1.36	0.89
11:V:293:HIS:O	11:V:361:ASN:ND2	2.06	0.89
7:O:1191:SER:HB2	8:P:757:LYS:CA	1.97	0.89
10:W:276:ILE:CG1	10:W:283:ILE:HD11	1.92	0.89
4:D:795:LYS:HZ3	9:R:21:LYS:CB	1.66	0.89
7:M:1393:ASN:ND2	8:N:687:LYS:HE2	1.86	0.89
2:0:516:LEU:HG	2:0:537:LYS:HD3	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:158:ASN:O	9:T:162:LEU:CB	2.21	0.89
2:Y:1019:ARG:HB3	9:R:246:ASN:C	1.98	0.88
7:M:1191:SER:HB2	8:N:757:LYS:CA	1.97	0.88
9:R:675:VAL:HG21	9:R:728:PHE:CE2	2.06	0.88
2:0:1019:ARG:HB3	9:T:246:ASN:C	1.98	0.88
7:O:1382:TYR:HH	8:P:744:LEU:HD23	1.33	0.88
9:T:675:VAL:HG21	9:T:728:PHE:CE2	2.05	0.88
1:j:446:UNK:CB	8:P:531:ILE:HD13	2.03	0.88
7:O:1189:MET:HG3	7:O:1190:TYR:CD1	2.08	0.88
3:Z:1173:LEU:HB2	3:Z:1218:ILE:CG2	2.01	0.88
7:M:1189:MET:HG3	7:M:1190:TYR:CD1	2.08	0.88
5:H:413:LEU:HA	6:I:373:PHE:HE2	1.36	0.88
4:J:806:SER:HB3	9:T:35:ALA:HB2	0.89	0.88
6:L:350:PHE:CE1	6:L:373:PHE:HE1	1.85	0.88
7:O:1392:ILE:CG1	7:O:1437:LEU:CD1	2.52	0.88
9:T:669:ASP:H	9:T:673:PRO:CG	1.87	0.88
7:M:1392:ILE:CG1	7:M:1437:LEU:CD1	2.52	0.88
9:R:669:ASP:H	9:R:673:PRO:CG	1.87	0.88
2:0:516:LEU:CD2	2:0:598:PHE:CZ	2.56	0.88
3:1:1191:LEU:HD13	3:1:1215:TYR:OH	1.74	0.88
11:X:273:VAL:N	11:X:356:VAL:O	2.07	0.88
11:V:273:VAL:N	11:V:356:VAL:O	2.07	0.88
3:1:1173:LEU:HD22	3:1:1218:ILE:CG1	2.04	0.88
7:O:1382:TYR:HD2	8:P:748:HIS:CE1	1.59	0.88
3:1:1170:GLN:OE1	3:1:1205:LEU:CD2	2.22	0.88
4:J:669:LEU:CD2	5:K:369:VAL:HG12	2.04	0.88
10:W:321:GLU:HB2	11:X:293:HIS:HD2	1.11	0.88
3:Z:344:GLN:OE1	3:Z:497:CYS:HB2	1.73	0.87
5:B:323:LEU:HB3	5:B:335:TRP:CH2	2.09	0.87
7:M:1380:ARG:H	7:M:1380:ARG:HD2	1.37	0.87
9:R:472:SER:O	9:R:473:ARG:NH1	2.06	0.87
11:V:271:ILE:HA	11:V:386:PRO:HB3	1.54	0.87
10:U:321:GLU:HB2	11:V:293:HIS:HD2	1.11	0.87
7:O:1671:VAL:HG11	9:T:166:LYS:CA	2.04	0.87
11:X:271:ILE:HA	11:X:386:PRO:HB3	1.54	0.87
9:Q:594:GLY:CA	10:U:324:LYS:CE	2.47	0.87
7:O:984:THR:O	7:O:988:SER:HB2	1.74	0.87
9:T:472:SER:O	9:T:473:ARG:NH1	2.06	0.87
1:h:319:UNK:CB	5:K:460:TRP:CE3	2.57	0.87
3:Z:1173:LEU:HB3	3:Z:1218:ILE:CG2	2.03	0.87
6:L:350:PHE:HE1	6:L:373:PHE:CE1	1.90	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:461:CYS:O	8:P:556:LEU:CD1	2.18	0.87
9:T:429:THR:HG23	9:T:434:ASP:CB	2.04	0.87
11:X:273:VAL:HG21	11:X:356:VAL:HG23	1.55	0.87
10:U:266:ILE:HG12	10:U:336:ASN:ND2	1.88	0.87
1:n:353:UNK:CB	2:Y:1309:ASN:ND2	2.37	0.87
11:V:273:VAL:HG21	11:V:356:VAL:HG23	1.55	0.87
7:O:341:PHE:CE2	7:O:652:ALA:CB	2.57	0.87
9:S:594:GLY:CA	10:W:324:LYS:CE	2.47	0.87
1:h:319:UNK:CB	5:K:460:TRP:CZ3	2.57	0.87
7:M:341:PHE:CE2	7:M:652:ALA:CB	2.57	0.87
9:R:429:THR:HG23	9:R:434:ASP:CB	2.04	0.87
7:O:1191:SER:HB3	8:P:757:LYS:HA	0.87	0.87
7:O:1336:ILE:HD13	7:O:1383:GLN:CG	2.02	0.87
7:O:1561:LEU:H	7:O:1580:VAL:CB	1.88	0.87
1:e:453:UNK:CA	8:N:534:GLN:NE2	2.34	0.87
7:M:1191:SER:HB3	8:N:757:LYS:HA	0.87	0.87
3:1:1173:LEU:CD2	3:1:1218:ILE:HD13	2.02	0.87
7:M:1336:ILE:HD13	7:M:1383:GLN:CG	2.03	0.86
7:M:1561:LEU:H	7:M:1580:VAL:CB	1.88	0.86
1:7:77:UNK:CB	9:R:435:TRP:CD1	2.58	0.86
9:T:675:VAL:HG23	9:T:728:PHE:CE2	2.07	0.86
1:8:77:UNK:CB	9:T:435:TRP:CD1	2.58	0.86
7:O:1392:ILE:HG12	7:O:1437:LEU:HD12	1.56	0.86
2:Y:1358:GLU:CB	3:1:787:ALA:N	2.37	0.86
5:E:314:ASN:ND2	5:E:348:ILE:CB	2.04	0.86
4:G:810:ASN:HB2	9:S:35:ALA:HB1	1.55	0.86
4:G:810:ASN:CB	9:S:35:ALA:CB	2.52	0.86
8:P:227:ILE:HD13	8:P:255:GLU:CG	1.99	0.86
9:R:675:VAL:HG23	9:R:728:PHE:CE2	2.08	0.86
1:b:268:UNK:HA	7:M:1038:LEU:HD11	1.56	0.86
11:V:273:VAL:HG11	11:V:356:VAL:CG2	2.05	0.86
11:X:273:VAL:HG11	11:X:356:VAL:CG2	2.05	0.86
8:P:613:GLU:HG2	8:P:617:TYR:CD1	2.08	0.86
7:M:984:THR:O	7:M:988:SER:N	2.09	0.86
7:M:1392:ILE:HG12	7:M:1437:LEU:HD12	1.56	0.86
8:N:613:GLU:HG2	8:N:617:TYR:CD1	2.08	0.86
7:O:1189:MET:HB2	8:P:249:ASP:HA	1.55	0.86
2:0:1019:ARG:HH11	9:T:245:ALA:HA	1.41	0.86
11:X:296:GLU:O	11:X:346:LYS:HE3	1.75	0.86
2:Y:1019:ARG:HH11	9:R:245:ALA:HA	1.41	0.85
10:U:266:ILE:HG12	10:U:336:ASN:HD22	1.38	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:984:THR:O	7:O:988:SER:CB	2.24	0.85
7:M:1189:MET:HB2	8:N:249:ASP:HA	1.56	0.85
7:M:1385:PHE:CE1	7:M:1426:VAL:HA	2.11	0.85
3:1:494:ASN:HB2	3:1:512:ARG:HB2	1.22	0.85
11:X:297:ASP:OD2	11:X:301:LEU:HG	1.75	0.85
11:X:355:TRP:HE1	11:X:400:ILE:HB	1.39	0.85
1:m:365:UNK:CB	2:0:1286:ASP:C	2.50	0.85
5:B:323:LEU:HD13	5:B:339:MET:HG3	1.57	0.85
5:B:323:LEU:HG	5:B:349:PRO:HG2	1.58	0.85
7:M:341:PHE:CE2	7:M:652:ALA:HB1	2.11	0.85
11:V:355:TRP:HE1	11:V:400:ILE:HB	1.38	0.85
7:O:341:PHE:CE2	7:O:652:ALA:HB1	2.11	0.85
7:O:1560:GLY:C	7:O:1580:VAL:CG2	2.49	0.85
3:Z:787:ALA:N	2:0:1358:GLU:HB3	1.92	0.85
7:M:1392:ILE:CG2	7:M:1437:LEU:HA	2.07	0.85
7:O:1189:MET:O	8:P:249:ASP:OD1	1.94	0.85
8:P:288:LEU:HD11	8:P:328:ILE:HG22	1.57	0.85
1:j:450:UNK:CB	8:P:532:LYS:HD3	2.05	0.85
3:Z:1213:LEU:CD2	3:Z:1215:TYR:CD2	2.59	0.85
7:M:1560:GLY:C	7:M:1580:VAL:CG2	2.49	0.85
8:N:288:LEU:HD11	8:N:328:ILE:HG22	1.57	0.85
7:O:1392:ILE:CG2	7:O:1437:LEU:HA	2.07	0.85
5:K:316:VAL:HG13	5:K:348:ILE:HD11	0.85	0.85
8:N:71:LEU:O	8:N:75:ILE:HG13	1.77	0.85
4:D:636:THR:C	4:D:637:LEU:CD2	2.50	0.85
5:E:456:THR:C	5:E:460:TRP:HD1	1.84	0.85
9:Q:589:LEU:HA	9:Q:603:VAL:CG2	2.07	0.85
10:U:262:ILE:O	10:U:262:ILE:HG22	1.74	0.85
5:K:456:THR:C	5:K:460:TRP:HD1	1.84	0.85
11:V:273:VAL:CA	11:V:356:VAL:O	2.25	0.84
3:1:1191:LEU:HD13	3:1:1215:TYR:CZ	2.11	0.84
3:1:1199:VAL:O	3:1:1200:LEU:CD2	2.25	0.84
10:W:304:LYS:N	11:X:271:ILE:HG12	1.91	0.84
1:n:365:UNK:CB	2:Y:1286:ASP:C	2.50	0.84
7:M:1382:TYR:CD1	8:N:748:HIS:CE1	2.63	0.84
7:M:1392:ILE:CG2	7:M:1437:LEU:CA	2.56	0.84
8:N:314:ASP:OD2	8:N:361:LYS:NZ	2.08	0.84
10:U:262:ILE:HG23	10:U:265:SER:HG	1.03	0.84
3:1:1191:LEU:HD11	3:1:1213:LEU:CD2	2.05	0.84
11:X:273:VAL:CA	11:X:356:VAL:O	2.25	0.84
1:b:246:UNK:CB	7:M:12:TYR:OH	2.25	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:1392:ILE:CG2	7:O:1437:LEU:CA	2.56	0.84
1:3:2:UNK:N	5:E:316:VAL:HB	1.85	0.84
1:g:246:UNK:CB	7:O:12:TYR:OH	2.26	0.84
9:R:436:LEU:HD11	9:R:462:PHE:CZ	2.08	0.84
9:R:669:ASP:N	9:R:673:PRO:HG2	1.92	0.84
8:P:314:ASP:OD2	8:P:361:LYS:NZ	2.08	0.84
9:T:669:ASP:N	9:T:673:PRO:HG2	1.92	0.84
1:3:2:UNK:H2	5:E:316:VAL:HG12	1.05	0.84
1:j:439:UNK:CB	8:P:527:LYS:HD3	2.07	0.84
9:T:436:LEU:HD11	9:T:462:PHE:CZ	2.08	0.84
8:N:761:PHE:CE2	8:N:765:PHE:CZ	2.66	0.84
10:W:276:ILE:N	10:W:283:ILE:HD11	1.92	0.84
3:1:1173:LEU:HD22	3:1:1218:ILE:HG12	1.57	0.84
9:S:584:LYS:HE2	9:S:636:ARG:HD2	1.57	0.84
7:M:1559:LEU:HD22	7:O:1642:LYS:HE3	1.56	0.84
6:L:354:LEU:HD21	6:L:369:LEU:CD1	2.07	0.84
8:P:761:PHE:CE2	8:P:765:PHE:CZ	2.66	0.84
5:E:517:GLN:HE21	9:R:24:GLU:HA	1.41	0.84
8:N:744:LEU:CD1	8:N:745:HIS:ND1	2.41	0.84
5:B:323:LEU:HD13	5:B:339:MET:CG	2.08	0.84
10:W:276:ILE:H	10:W:283:ILE:HD11	1.40	0.84
5:E:360:GLN:O	5:E:363:GLN:CG	2.26	0.83
7:M:1382:TYR:CD2	8:N:748:HIS:NE2	2.37	0.83
5:K:317:ASN:ND2	5:K:320:GLU:OE2	2.11	0.83
5:K:360:GLN:O	5:K:363:GLN:CG	2.26	0.83
1:n:354:UNK:CB	2:Y:1308:PHE:CE2	2.62	0.83
7:M:1392:ILE:CG2	7:M:1437:LEU:N	2.41	0.83
8:P:288:LEU:CD1	8:P:328:ILE:CG2	2.55	0.83
8:P:613:GLU:OE2	8:P:617:TYR:CD2	2.31	0.83
8:N:288:LEU:CD1	8:N:328:ILE:CG2	2.55	0.83
8:N:613:GLU:OE2	8:N:617:TYR:CD2	2.31	0.83
11:V:273:VAL:CG1	11:V:356:VAL:HG22	2.07	0.83
3:Z:1215:TYR:CB	3:Z:1218:ILE:HG12	2.09	0.83
7:O:1392:ILE:CG2	7:O:1437:LEU:N	2.41	0.83
2:Y:1019:ARG:HD2	9:R:245:ALA:HA	1.61	0.83
7:O:381:THR:CA	7:O:703:TYR:HB3	2.06	0.83
2:0:1019:ARG:HD2	9:T:245:ALA:HA	1.61	0.83
11:X:274:PHE:HD2	11:X:355:TRP:CZ3	1.96	0.83
1:j:443:UNK:N	8:P:529:LEU:HD13	1.94	0.83
8:N:761:PHE:CZ	8:N:765:PHE:CE1	2.67	0.83
9:Q:603:VAL:HG23	9:Q:604:ILE:HG13	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:M:381:THR:CA	7:M:703:TYR:HB3	2.06	0.83
11:V:274:PHE:HD2	11:V:355:TRP:CZ3	1.97	0.83
8:P:761:PHE:CZ	8:P:765:PHE:CE1	2.67	0.83
5:E:436:MET:SD	6:F:370:ASP:CG	2.62	0.82
11:V:355:TRP:CZ2	11:V:401:ASP:O	2.32	0.82
9:Q:594:GLY:HA3	10:U:324:LYS:CE	2.07	0.82
2:0:516:LEU:HD21	2:0:598:PHE:HZ	1.37	0.82
10:W:271:ALA:CA	10:W:283:ILE:CG2	2.56	0.82
11:X:355:TRP:CZ2	11:X:401:ASP:O	2.33	0.82
1:n:350:UNK:CA	2:Y:1305:SER:CB	2.57	0.82
1:n:353:UNK:CB	2:Y:1309:ASN:HB3	2.08	0.82
7:M:1561:LEU:O	7:M:1580:VAL:HG11	1.79	0.82
8:N:267:ILE:HG22	8:N:271:LEU:CD1	2.09	0.82
8:P:288:LEU:HD11	8:P:328:ILE:HG23	1.60	0.82
11:X:273:VAL:CB	11:X:356:VAL:HG22	1.98	0.82
7:M:1642:LYS:HE3	7:O:1559:LEU:HD22	1.58	0.82
8:N:288:LEU:HD11	8:N:328:ILE:HG23	1.60	0.82
7:O:1561:LEU:O	7:O:1580:VAL:HG11	1.79	0.82
11:V:273:VAL:CB	11:V:356:VAL:HG22	1.97	0.82
5:H:524:ASN:OD1	9:S:31:ASN:CB	2.28	0.82
3:Z:1213:LEU:HD12	3:Z:1215:TYR:N	1.95	0.82
8:N:305:ASP:OD2	8:N:322:HIS:NE2	2.13	0.82
8:P:267:ILE:HG22	8:P:271:LEU:CD1	2.10	0.82
8:P:305:ASP:OD2	8:P:322:HIS:NE2	2.13	0.82
1:7:82:UNK:C	1:7:84:UNK:N	2.42	0.82
1:i:397:UNK:CB	8:P:423:LYS:HE2	2.09	0.82
7:O:1189:MET:HA	8:P:249:ASP:CG	2.03	0.82
9:S:594:GLY:HA3	10:W:324:LYS:CE	2.07	0.82
1:8:82:UNK:C	1:8:84:UNK:N	2.42	0.82
8:N:71:LEU:HD12	8:N:72:ARG:N	1.93	0.82
3:Z:1191:LEU:HD22	3:Z:1213:LEU:CD2	2.10	0.82
5:B:517:GLN:OE1	9:Q:23:ASN:CB	2.28	0.82
7:M:1189:MET:CB	8:N:248:GLN:C	2.52	0.82
8:N:744:LEU:HD11	8:N:745:HIS:ND1	1.95	0.82
3:1:1215:TYR:O	3:1:1218:ILE:HG22	1.80	0.82
7:O:1560:GLY:HA3	7:O:1580:VAL:HG23	1.61	0.82
7:M:1560:GLY:HA3	7:M:1580:VAL:HG23	1.61	0.81
9:R:339:TYR:HE1	9:R:342:ARG:NH1	1.75	0.81
7:O:1189:MET:CB	8:P:248:GLN:C	2.52	0.81
7:O:1562:ASP:HA	7:O:1580:VAL:HG13	1.62	0.81
7:M:1562:ASP:HA	7:M:1580:VAL:HG13	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:1189:MET:C	8:P:249:ASP:OD1	2.22	0.81
5:E:456:THR:C	5:E:460:TRP:CD1	2.57	0.81
7:M:1381:LEU:O	7:M:1385:PHE:CD2	2.33	0.81
9:R:668:SER:CB	9:R:673:PRO:HB2	2.07	0.81
3:1:1170:GLN:O	3:1:1173:LEU:HG	1.79	0.81
5:K:456:THR:C	5:K:460:TRP:CD1	2.57	0.81
9:T:339:TYR:HE1	9:T:342:ARG:NH1	1.75	0.81
3:Z:1170:GLN:O	3:Z:1173:LEU:HG	1.80	0.81
3:Z:1174:LEU:O	3:Z:1177:VAL:CG1	2.29	0.81
8:N:613:GLU:OE1	8:N:617:TYR:CE1	2.33	0.81
5:K:517:GLN:HE22	9:T:23:ASN:CA	1.91	0.81
8:P:149:ILE:HG23	8:P:223:PHE:CD1	2.16	0.81
8:P:613:GLU:OE1	8:P:617:TYR:CE1	2.33	0.81
9:T:668:SER:CB	9:T:673:PRO:HB2	2.07	0.81
7:O:1381:LEU:CD1	7:O:1385:PHE:CE2	2.62	0.81
1:n:350:UNK:CA	2:Y:1305:SER:HB3	2.11	0.81
11:X:273:VAL:CG1	11:X:356:VAL:HG22	2.07	0.81
1:m:353:UNK:CB	2:0:1309:ASN:HB3	2.10	0.81
1:g:239:UNK:N	7:O:119:PHE:CE2	2.48	0.81
2:Y:1019:ARG:HB2	9:R:246:ASN:HB2	1.62	0.81
10:U:268:LEU:CB	10:U:283:ILE:HD11	2.08	0.81
11:V:397:GLY:HA3	11:V:399:LYS:HE3	1.63	0.81
5:B:323:LEU:CD1	5:B:338:ALA:C	2.50	0.81
7:O:1189:MET:CB	8:P:249:ASP:OD1	2.29	0.81
9:T:435:TRP:CH2	9:T:474:PHE:CE1	2.68	0.81
11:X:397:GLY:HA3	11:X:399:LYS:HE3	1.63	0.81
9:R:435:TRP:CH2	9:R:474:PHE:CE1	2.68	0.81
2:0:1019:ARG:HB2	9:T:246:ASN:HB2	1.62	0.81
5:K:317:ASN:CG	5:K:348:ILE:HD11	2.05	0.81
3:Z:1173:LEU:HD21	3:Z:1205:LEU:HD21	1.62	0.81
5:E:517:GLN:HE21	9:R:24:GLU:CB	1.91	0.81
7:M:1189:MET:CE	8:N:252:TYR:HB3	2.11	0.81
8:N:71:LEU:HB3	8:N:164:TYR:HE1	1.43	0.81
3:1:1146:SER:HA	9:T:447:ASP:OD1	1.79	0.81
5:K:317:ASN:ND2	5:K:320:GLU:CD	2.39	0.81
11:X:274:PHE:HD2	11:X:355:TRP:CH2	1.99	0.81
3:Z:1146:SER:HA	9:R:447:ASP:OD1	1.79	0.80
7:M:1382:TYR:CZ	8:N:748:HIS:NE2	2.49	0.80
5:K:317:ASN:ND2	5:K:348:ILE:HD13	1.89	0.80
6:L:354:LEU:CD2	6:L:369:LEU:HD11	2.09	0.80
7:O:1189:MET:CE	8:P:252:TYR:HB3	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:1191:LEU:HD22	3:Z:1213:LEU:HD23	1.61	0.80
7:M:335:ASP:CG	7:M:857:GLY:HA3	2.06	0.80
7:M:1329:LEU:CD2	7:M:1380:ARG:NH2	2.43	0.80
8:N:327:PHE:CD1	8:N:389:PHE:HD2	1.99	0.80
1:3:4:UNK:CB	5:E:316:VAL:HA	2.11	0.80
11:V:274:PHE:HD2	11:V:355:TRP:CH2	2.00	0.80
7:O:335:ASP:CG	7:O:857:GLY:HA3	2.06	0.80
7:M:1386:LYS:HG3	8:N:688:THR:CG2	1.85	0.80
2:0:1019:ARG:HB3	9:T:246:ASN:O	1.80	0.80
2:Y:1019:ARG:HB3	9:R:246:ASN:O	1.80	0.80
8:N:64:SER:OG	8:N:73:SER:O	1.97	0.80
9:R:278:LEU:HD22	9:R:433:GLU:CB	2.09	0.80
3:1:1173:LEU:CD1	3:1:1195:LEU:HD22	2.11	0.80
7:O:1386:LYS:HG3	8:P:688:THR:CG2	1.85	0.80
1:m:350:UNK:HA	2:0:1305:SER:CB	2.11	0.80
11:V:285:ILE:C	11:V:300:VAL:HG21	2.06	0.80
5:B:323:LEU:CB	5:B:323:LEU:CG	2.59	0.80
3:1:1177:VAL:HG21	3:1:1215:TYR:CE2	2.16	0.80
5:K:316:VAL:HG11	5:K:348:ILE:CD1	1.97	0.80
9:T:278:LEU:HD22	9:T:433:GLU:CB	2.09	0.80
5:E:517:GLN:CD	9:R:24:GLU:CB	2.55	0.79
7:M:1189:MET:SD	8:N:248:GLN:C	2.65	0.79
7:O:1189:MET:SD	8:P:248:GLN:C	2.65	0.79
1:b:256:UNK:CB	7:M:181:PHE:HZ	1.96	0.79
11:V:270:ALA:HB2	11:V:357:LYS:HG3	1.62	0.79
1:b:265:UNK:CB	7:M:976:ALA:CB	2.60	0.79
2:Y:443:GLY:HA2	2:Y:519:THR:OG1	1.82	0.79
5:B:323:LEU:HG	5:B:342:LYS:NZ	1.97	0.79
8:N:741:LYS:HA	8:N:744:LEU:HD21	1.64	0.79
5:K:318:GLU:CA	5:K:346:GLN:HA	2.02	0.79
11:X:289:SER:HB3	11:X:294:ILE:HD12	1.57	0.79
6:F:394:ILE:HD11	9:R:40:GLY:O	1.82	0.79
11:V:294:ILE:HG12	11:V:361:ASN:OD1	1.82	0.79
5:K:517:GLN:NE2	9:T:23:ASN:CA	2.45	0.79
7:M:335:ASP:OD1	7:M:856:GLU:C	2.26	0.79
4:J:765:LEU:HD23	5:K:460:TRP:CZ2	2.16	0.79
7:O:1189:MET:N	8:P:248:GLN:HG2	1.94	0.79
9:S:547:TYR:HB3	11:X:298:PHE:CD1	2.16	0.79
1:c:316:UNK:CB	5:E:463:LEU:HD11	2.11	0.79
3:Z:1215:TYR:HB2	3:Z:1218:ILE:CG1	2.11	0.79
4:D:765:LEU:HD23	5:E:460:TRP:CZ2	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:380:LEU:HD21	6:F:314:TYR:HE2	1.44	0.79
7:M:1189:MET:N	8:N:248:GLN:HG2	1.94	0.79
2:0:1310:ASP:CG	2:0:1311:PHE:CD2	2.61	0.79
3:1:1194:LYS:NZ	3:1:1208:ASP:O	2.13	0.79
6:L:350:PHE:CZ	6:L:373:PHE:CE1	2.71	0.79
7:O:335:ASP:OD1	7:O:856:GLU:C	2.26	0.79
1:7:83:UNK:O	9:R:285:TYR:OH	2.00	0.79
1:8:83:UNK:O	9:T:285:TYR:OH	2.00	0.79
8:N:223:PHE:HE2	8:N:258:ILE:CG2	1.95	0.79
11:X:270:ALA:HB2	11:X:357:LYS:HG3	1.62	0.79
11:X:355:TRP:HD1	11:X:400:ILE:HD13	1.47	0.79
2:Y:1019:ARG:HB3	9:R:246:ASN:CA	2.13	0.79
3:Z:917:GLU:HG3	3:Z:918:MET:N	1.95	0.79
2:0:1019:ARG:HB3	9:T:246:ASN:CA	2.13	0.79
5:K:380:LEU:HD21	6:L:314:TYR:HE2	1.44	0.79
7:O:1392:ILE:HD11	7:O:1437:LEU:HD13	1.63	0.79
7:M:1392:ILE:HD11	7:M:1437:LEU:HD13	1.63	0.79
7:M:1189:MET:CG	8:N:248:GLN:C	2.56	0.79
7:M:1381:LEU:O	7:M:1385:PHE:HD2	1.66	0.79
11:V:355:TRP:HD1	11:V:400:ILE:HD13	1.47	0.79
8:N:223:PHE:CE2	8:N:258:ILE:CG2	2.66	0.78
3:1:917:GLU:HG3	3:1:918:MET:N	1.95	0.78
6:L:374:GLN:HE21	6:L:374:GLN:N	1.81	0.78
7:O:1189:MET:CG	8:P:248:GLN:C	2.56	0.78
7:O:1189:MET:HB2	8:P:249:ASP:OD1	1.82	0.78
3:Z:1191:LEU:CD2	3:Z:1213:LEU:HD23	2.13	0.78
5:B:317:ASN:HB3	5:B:346:GLN:HG2	1.64	0.78
5:E:380:LEU:HD22	6:F:314:TYR:HE2	1.49	0.78
9:S:582:GLU:HG2	11:X:302:ARG:HH12	1.48	0.78
11:X:289:SER:OG	11:X:294:ILE:CD1	2.31	0.78
5:K:380:LEU:HD22	6:L:314:TYR:HE2	1.49	0.78
9:T:668:SER:HB3	9:T:673:PRO:CB	2.07	0.78
1:d:394:UNK:O	8:N:389:PHE:CD1	2.37	0.78
8:P:305:ASP:O	8:P:309:ASN:ND2	2.16	0.78
4:A:796:ILE:HG21	9:Q:24:GLU:CB	2.09	0.78
8:N:274:GLY:CA	8:N:284:ILE:CB	2.62	0.78
8:N:305:ASP:O	8:N:309:ASN:ND2	2.16	0.78
8:P:274:GLY:CA	8:P:284:ILE:CB	2.62	0.78
7:M:1382:TYR:CZ	8:N:748:HIS:CE1	2.72	0.78
3:1:1184:ASP:OD2	3:1:1187:TYR:CE2	2.36	0.78
9:Q:592:LYS:HZ3	10:U:324:LYS:HD2	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:668:SER:HB3	9:R:673:PRO:CB	2.07	0.78
10:W:275:GLU:OE1	10:W:284:LYS:HD2	1.84	0.78
1:7:72:UNK:CB	9:R:426:PRO:CG	2.62	0.78
9:S:592:LYS:HZ3	10:W:324:LYS:HD2	1.48	0.78
4:D:636:THR:O	4:D:637:LEU:CB	2.30	0.78
7:M:1559:LEU:CD2	7:O:1642:LYS:CE	2.41	0.78
7:O:1561:LEU:H	7:O:1580:VAL:CG1	1.95	0.78
4:D:673:GLY:HA3	5:E:315:LYS:NZ	1.99	0.78
7:M:1561:LEU:H	7:M:1580:VAL:CG1	1.96	0.78
10:U:268:LEU:N	10:U:283:ILE:CD1	2.41	0.78
3:1:1173:LEU:HD11	3:1:1195:LEU:HD22	1.64	0.78
5:K:436:MET:SD	6:L:370:ASP:HB3	2.24	0.78
9:T:669:ASP:H	9:T:673:PRO:HG3	1.49	0.78
9:R:669:ASP:H	9:R:673:PRO:HG3	1.50	0.77
3:1:494:ASN:CG	3:1:512:ARG:HB3	2.09	0.77
1:g:238:UNK:O	7:O:119:PHE:CD2	2.38	0.77
5:E:317:ASN:O	5:E:348:ILE:CD1	2.32	0.77
7:M:985:GLN:HA	7:M:988:SER:HB3	1.67	0.77
8:N:613:GLU:HG3	8:N:617:TYR:CZ	2.19	0.77
8:P:277:THR:CG2	8:P:381:VAL:HG21	2.15	0.77
8:P:613:GLU:HG3	8:P:617:TYR:CZ	2.19	0.77
9:S:593:ILE:HG21	9:S:599:ARG:HA	1.66	0.77
4:A:752:ASP:H	5:B:444:LEU:HD13	1.49	0.77
7:M:1186:SER:O	7:M:1192:VAL:HG13	1.83	0.77
8:N:277:THR:CG2	8:N:381:VAL:HG21	2.15	0.77
8:N:306:VAL:HG22	8:N:352:PHE:CG	2.20	0.77
9:R:407:TYR:CD1	9:R:428:VAL:HG12	2.20	0.77
3:1:1191:LEU:HD11	3:1:1213:LEU:CB	2.15	0.77
4:G:752:ASP:H	5:H:444:LEU:HD13	1.49	0.77
9:T:407:TYR:CD1	9:T:428:VAL:HG12	2.20	0.77
8:N:306:VAL:HG22	8:N:352:PHE:CD1	2.20	0.77
8:P:306:VAL:HG22	8:P:352:PHE:CG	2.20	0.77
1:4:2:UNK:CA	5:K:314:ASN:OD1	2.33	0.77
1:c:313:UNK:O	1:c:317:UNK:CA	2.13	0.77
1:m:354:UNK:CB	2:0:1308:PHE:CE2	2.68	0.77
1:g:239:UNK:CA	7:O:119:PHE:CD2	2.65	0.77
8:P:306:VAL:HG22	8:P:352:PHE:CD1	2.20	0.77
1:i:390:UNK:CB	8:P:354:GLU:HG3	2.15	0.77
3:Z:1183:ILE:O	3:Z:1188:ARG:NH2	2.17	0.77
5:B:323:LEU:HA	5:B:349:PRO:HD2	1.66	0.77
7:M:335:ASP:OD2	7:M:857:GLY:HA3	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:1186:SER:O	7:O:1192:VAL:HG13	1.83	0.77
11:X:275:GLY:N	11:X:354:SER:HB2	1.99	0.77
1:g:239:UNK:N	7:O:119:PHE:CD2	2.53	0.77
5:H:413:LEU:HA	6:I:373:PHE:CE2	2.18	0.77
11:X:297:ASP:CG	11:X:301:LEU:HG	2.09	0.77
11:V:275:GLY:N	11:V:354:SER:HB2	1.99	0.77
3:1:921:SER:HB3	3:1:924:SER:HB3	1.67	0.77
3:Z:921:SER:HB3	3:Z:924:SER:HB3	1.67	0.76
7:M:384:MET:HA	7:M:766:GLN:CD	2.09	0.76
7:O:335:ASP:OD2	7:O:857:GLY:HA3	1.84	0.76
5:E:314:ASN:CG	5:E:348:ILE:HB	2.07	0.76
7:O:384:MET:HA	7:O:766:GLN:CD	2.08	0.76
9:S:547:TYR:HB3	11:X:298:PHE:CG	2.19	0.76
11:X:355:TRP:CD1	11:X:400:ILE:CD1	2.69	0.76
1:b:268:UNK:HA	7:M:1038:LEU:CD1	2.13	0.76
7:M:1561:LEU:H	7:M:1580:VAL:HG11	1.46	0.76
8:N:273:LEU:HD13	8:N:328:ILE:HD13	1.67	0.76
11:V:355:TRP:CD1	11:V:400:ILE:CD1	2.69	0.76
1:g:238:UNK:O	7:O:119:PHE:HD2	1.68	0.76
7:O:1561:LEU:H	7:O:1580:VAL:HG11	1.46	0.76
8:P:273:LEU:HD13	8:P:328:ILE:HD13	1.67	0.76
1:m:364:UNK:CB	2:0:1287:SER:O	2.33	0.76
3:Z:1209:CYS:O	3:Z:1213:LEU:HG	1.85	0.76
6:C:374:GLN:HA	6:C:374:GLN:HE21	1.50	0.76
6:F:314:TYR:OH	7:M:1030:ASN:ND2	2.19	0.76
6:L:314:TYR:OH	7:O:1030:ASN:ND2	2.19	0.76
8:P:1357:CYS:HG	9:T:453:VAL:HG11	1.50	0.76
9:S:547:TYR:HB3	11:X:298:PHE:HB2	1.67	0.76
1:m:350:UNK:CB	2:0:1305:SER:HA	2.14	0.76
7:M:1392:ILE:HG23	7:M:1437:LEU:HA	1.67	0.76
7:M:341:PHE:CZ	7:M:652:ALA:HB2	2.20	0.76
11:V:273:VAL:HB	11:V:356:VAL:O	1.85	0.76
1:b:268:UNK:CA	7:M:1038:LEU:HD13	2.08	0.76
7:M:1386:LYS:NZ	8:N:683:ASP:CG	2.43	0.76
7:O:341:PHE:CZ	7:O:652:ALA:HB2	2.21	0.76
7:O:1381:LEU:HD12	7:O:1385:PHE:CZ	2.21	0.76
7:O:1392:ILE:HG23	7:O:1437:LEU:HA	1.67	0.76
1:b:246:UNK:CB	7:M:12:TYR:CE2	2.68	0.75
3:Z:787:ALA:N	2:0:1358:GLU:CB	2.48	0.75
10:W:276:ILE:HG21	10:W:282:VAL:HG21	1.68	0.75
11:X:273:VAL:HB	11:X:356:VAL:O	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:246:UNK:CB	7:O:12:TYR:CE2	2.68	0.75
3:Z:1213:LEU:CD2	3:Z:1215:TYR:HE2	1.93	0.75
9:R:675:VAL:HG21	9:R:728:PHE:CZ	2.21	0.75
9:T:675:VAL:HG21	9:T:728:PHE:CZ	2.21	0.75
11:X:355:TRP:HD1	11:X:400:ILE:CD1	1.98	0.75
3:Z:1213:LEU:HD11	3:Z:1215:TYR:CB	2.17	0.75
8:N:216:TYR:CA	8:N:220:PHE:CE1	2.64	0.75
7:O:1386:LYS:NZ	8:P:683:ASP:CG	2.43	0.75
11:V:355:TRP:HD1	11:V:400:ILE:CD1	1.98	0.75
1:c:317:UNK:O	5:E:464:ALA:HB1	1.85	0.75
1:g:256:UNK:CB	7:O:181:PHE:HZ	1.99	0.75
8:N:267:ILE:HG22	8:N:271:LEU:HD12	1.67	0.75
3:1:1183:ILE:HG13	3:1:1213:LEU:CD1	2.08	0.75
3:1:1170:GLN:HA	3:1:1173:LEU:HD21	1.69	0.75
8:P:267:ILE:HG22	8:P:271:LEU:HD12	1.67	0.75
1:4:5:UNK:HA	5:K:315:LYS:HD3	1.69	0.75
1:c:325:UNK:CB	7:M:796:ILE:HG23	2.17	0.75
1:h:315:UNK:O	1:h:318:UNK:CB	2.35	0.75
9:Q:602:GLY:O	9:Q:603:VAL:HG22	1.86	0.75
1:c:316:UNK:CB	5:E:463:LEU:CD1	2.64	0.75
10:U:304:LYS:N	11:V:271:ILE:HG12	2.02	0.75
7:M:1642:LYS:CE	7:O:1559:LEU:CD2	2.44	0.74
9:S:599:ARG:NH2	9:S:605:GLU:CD	2.45	0.74
10:U:321:GLU:CG	11:V:293:HIS:HD2	2.00	0.74
3:1:494:ASN:CB	3:1:512:ARG:O	2.35	0.74
3:1:1173:LEU:HD23	3:1:1218:ILE:HD13	1.63	0.74
3:1:1173:LEU:CB	3:1:1218:ILE:HD13	2.14	0.74
5:K:316:VAL:HG12	5:K:348:ILE:CG1	2.15	0.74
10:W:321:GLU:CG	11:X:293:HIS:HD2	2.00	0.74
1:d:390:UNK:CB	8:N:354:GLU:HG3	2.18	0.74
2:Y:1019:ARG:CG	9:R:246:ASN:HB2	2.18	0.74
3:Z:1170:GLN:HA	3:Z:1173:LEU:HD21	1.70	0.74
7:M:1385:PHE:O	7:M:1389:ILE:HG12	1.87	0.74
2:0:1019:ARG:CG	9:T:246:ASN:HB2	2.18	0.74
9:R:436:LEU:HD12	9:R:462:PHE:HZ	0.61	0.74
9:S:599:ARG:NH2	9:S:605:GLU:OE2	2.19	0.74
9:T:436:LEU:HD12	9:T:462:PHE:HZ	0.61	0.74
7:M:1382:TYR:OH	8:N:744:LEU:HB2	1.88	0.74
7:O:1385:PHE:O	7:O:1389:ILE:HG12	1.87	0.74
1:c:328:UNK:O	7:M:804:ALA:O	2.06	0.74
7:M:1560:GLY:HA3	7:M:1580:VAL:CG2	2.16	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:328:UNK:O	7:O:804:ALA:O	2.06	0.74
6:L:353:LEU:HD11	6:L:369:LEU:CD1	2.18	0.74
11:X:274:PHE:CA	11:X:355:TRP:HA	2.15	0.74
8:N:285:GLN:HG2	8:N:331:TYR:HE2	1.51	0.74
11:V:274:PHE:CA	11:V:355:TRP:HA	2.14	0.74
7:O:1560:GLY:HA3	7:O:1580:VAL:CG2	2.16	0.74
9:T:339:TYR:CD1	9:T:342:ARG:NH1	2.54	0.74
9:R:339:TYR:CD1	9:R:342:ARG:NH1	2.54	0.74
9:S:593:ILE:HG23	9:S:600:ILE:HG13	1.67	0.74
5:E:380:LEU:CD1	6:F:314:TYR:CE2	2.71	0.74
8:N:305:ASP:OD2	8:N:322:HIS:CE1	2.41	0.74
8:P:305:ASP:OD2	8:P:322:HIS:CE1	2.41	0.74
7:M:1385:PHE:HE1	7:M:1426:VAL:HA	1.51	0.73
8:N:741:LYS:O	8:N:744:LEU:CG	2.32	0.73
4:J:806:SER:HB3	9:T:35:ALA:CA	2.17	0.73
7:O:984:THR:O	7:O:988:SER:CA	2.36	0.73
5:K:380:LEU:CD1	6:L:314:TYR:CE2	2.71	0.73
8:P:285:GLN:HG2	8:P:331:TYR:HE2	1.51	0.73
1:j:442:UNK:C	8:P:529:LEU:CD1	2.67	0.73
8:N:277:THR:HG22	8:N:381:VAL:HG21	1.69	0.73
8:N:744:LEU:HD12	8:N:745:HIS:N	2.02	0.73
7:O:1389:ILE:HG21	8:P:687:LYS:HB2	1.71	0.73
8:P:277:THR:HG22	8:P:381:VAL:HG21	1.69	0.73
8:P:288:LEU:HD11	8:P:328:ILE:HG21	1.68	0.73
3:Z:1215:TYR:CB	3:Z:1218:ILE:CD1	2.65	0.73
7:M:1562:ASP:N	7:M:1580:VAL:CG1	2.51	0.73
3:1:494:ASN:HB2	3:1:512:ARG:C	2.13	0.73
7:O:1380:ARG:HH11	7:O:1415:ARG:NE	1.86	0.73
9:S:547:TYR:O	11:X:298:PHE:HB3	1.88	0.73
1:h:314:UNK:O	1:h:318:UNK:N	2.22	0.73
8:N:288:LEU:HD11	8:N:328:ILE:HG21	1.68	0.73
3:1:1191:LEU:HD11	3:1:1213:LEU:HD22	1.69	0.73
7:O:1562:ASP:N	7:O:1580:VAL:CG1	2.51	0.73
3:Z:1174:LEU:HA	3:Z:1177:VAL:HG12	1.71	0.73
4:D:806:SER:HB3	9:R:36:SER:HA	1.70	0.73
11:V:275:GLY:O	11:V:354:SER:HA	1.89	0.73
8:P:55:LEU:HD11	8:P:109:ARG:HE	1.52	0.73
1:8:76:UNK:CA	9:T:429:THR:HB	2.19	0.73
8:N:55:LEU:HD11	8:N:109:ARG:HE	1.52	0.73
9:Q:20:LYS:O	9:Q:24:GLU:N	2.22	0.73
11:X:275:GLY:O	11:X:354:SER:HA	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:76:UNK:CA	9:R:429:THR:HB	2.19	0.73
10:W:262:ILE:HG13	10:W:336:ASN:HB3	1.70	0.73
6:F:455:GLU:HG3	9:R:63:SER:CB	2.17	0.72
5:H:322:ILE:HB	5:H:325:THR:HG22	1.71	0.72
8:P:529:LEU:HG	8:P:531:ILE:HG12	1.69	0.72
3:1:928:LEU:HD11	3:1:957:LEU:CD2	2.19	0.72
10:W:276:ILE:CB	10:W:283:ILE:HD11	2.18	0.72
1:j:442:UNK:CA	8:P:529:LEU:HD22	2.19	0.72
2:Y:1310:ASP:O	2:Y:1310:ASP:OD1	2.06	0.72
11:X:274:PHE:CD2	11:X:355:TRP:CH2	2.78	0.72
3:Z:928:LEU:HD11	3:Z:957:LEU:CD2	2.19	0.72
7:M:990:ILE:HA	7:M:995:VAL:HG11	1.72	0.72
2:Y:1482:ASP:HB3	2:Y:1485:GLU:HB2	1.71	0.72
8:P:68:HIS:O	8:P:69:ASN:OD1	2.07	0.72
11:X:274:PHE:HA	11:X:355:TRP:CA	2.14	0.72
11:V:274:PHE:CD2	11:V:355:TRP:CH2	2.78	0.72
5:B:323:LEU:CG	5:B:342:LYS:HZ1	2.02	0.72
7:M:1429:ASP:CG	8:N:686:GLY:HA3	2.15	0.72
2:0:1482:ASP:HB3	2:0:1485:GLU:HB2	1.71	0.72
4:A:809:ASP:OD2	9:Q:36:SER:CB	2.38	0.72
5:E:316:VAL:HG13	5:E:348:ILE:HD13	1.69	0.72
9:Q:588:VAL:HG12	9:Q:603:VAL:HG11	1.70	0.72
9:Q:593:ILE:CG2	9:Q:600:ILE:HG12	2.20	0.72
11:V:274:PHE:HA	11:V:355:TRP:CA	2.14	0.72
3:1:1183:ILE:HG22	3:1:1184:ASP:H	1.55	0.72
3:Z:1215:TYR:HB3	3:Z:1218:ILE:HG12	1.71	0.71
11:V:394:GLN:O	11:V:398:CYS:CA	2.36	0.71
3:1:494:ASN:OD1	3:1:512:ARG:HB3	1.90	0.71
3:1:1215:TYR:HB2	3:1:1218:ILE:CG2	2.20	0.71
11:X:394:GLN:O	11:X:398:CYS:CA	2.36	0.71
7:M:1384:LEU:HD13	7:M:1412:TYR:HB2	1.72	0.71
2:0:1020:ASN:HB2	9:T:247:GLY:CA	2.20	0.71
1:n:364:UNK:CB	2:Y:1287:SER:O	2.38	0.71
4:J:669:LEU:HD21	5:K:369:VAL:CG1	2.18	0.71
2:Y:1020:ASN:HB2	9:R:247:GLY:CA	2.20	0.71
4:D:636:THR:C	4:D:637:LEU:HD22	2.15	0.71
1:n:350:UNK:HA	2:Y:1305:SER:CB	2.20	0.71
4:D:793:LEU:CB	6:F:439:ILE:HG21	2.21	0.71
8:N:55:LEU:CD2	8:N:109:ARG:HH21	2.03	0.71
2:0:1019:ARG:CB	9:T:246:ASN:CB	2.66	0.71
7:O:1384:LEU:HD13	7:O:1412:TYR:HB2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:55:LEU:CD2	8:P:109:ARG:HH21	2.03	0.71
4:J:793:LEU:CB	6:L:439:ILE:HG21	2.21	0.71
1:g:239:UNK:CB	7:O:119:PHE:HE2	2.04	0.71
2:Y:1019:ARG:CB	9:R:246:ASN:CB	2.67	0.71
3:Z:1210:ALA:CB	3:Z:1218:ILE:HD11	2.20	0.71
11:V:274:PHE:C	11:V:354:SER:O	2.34	0.71
10:W:266:ILE:HG12	10:W:336:ASN:CG	2.16	0.71
11:X:274:PHE:C	11:X:354:SER:O	2.34	0.71
7:M:1389:ILE:HG23	8:N:687:LYS:HG2	1.58	0.71
8:N:55:LEU:HD21	8:N:109:ARG:HH21	1.54	0.71
8:N:613:GLU:CB	8:N:617:TYR:CE2	2.73	0.71
3:1:1177:VAL:CG2	3:1:1215:TYR:CE1	2.67	0.71
7:O:1385:PHE:CE1	7:O:1426:VAL:HA	2.26	0.71
7:O:1561:LEU:N	7:O:1580:VAL:HG11	2.06	0.71
8:P:613:GLU:CB	8:P:617:TYR:CE2	2.73	0.71
8:P:55:LEU:HD21	8:P:109:ARG:HH21	1.54	0.71
10:W:271:ALA:CA	10:W:283:ILE:HG22	2.21	0.71
7:O:1189:MET:H	8:P:248:GLN:CD	1.99	0.70
7:M:1561:LEU:N	7:M:1580:VAL:HG11	2.06	0.70
9:Q:588:VAL:O	9:Q:603:VAL:HG13	1.91	0.70
1:j:443:UNK:CA	8:P:529:LEU:HD13	2.21	0.70
7:M:1189:MET:H	8:N:248:GLN:CD	1.99	0.70
8:P:267:ILE:O	8:P:271:LEU:HD12	1.91	0.70
9:T:669:ASP:H	9:T:673:PRO:HG2	1.53	0.70
8:N:267:ILE:O	8:N:271:LEU:HD12	1.91	0.70
3:1:493:ILE:HD12	3:1:513:LYS:CD	2.19	0.70
3:1:1183:ILE:HG22	3:1:1184:ASP:N	2.05	0.70
7:M:1189:MET:CG	7:M:1190:TYR:HD1	2.05	0.70
2:0:516:LEU:CG	2:0:537:LYS:HD3	2.22	0.70
7:O:1189:MET:CG	7:O:1190:TYR:HD1	2.05	0.70
7:M:1188:THR:HG22	8:N:244:PHE:O	1.91	0.70
7:O:1188:THR:HG22	8:P:244:PHE:O	1.91	0.70
1:7:70:UNK:CB	9:R:469:TYR:CE1	2.75	0.70
1:8:74:UNK:HA	9:T:473:ARG:HG3	1.74	0.70
9:T:158:ASN:O	9:T:162:LEU:N	2.24	0.70
1:j:443:UNK:CA	8:P:529:LEU:CD1	2.68	0.70
5:B:323:LEU:CG	5:B:342:LYS:NZ	2.55	0.70
4:D:807:LEU:CD2	5:E:524:ASN:OD1	2.40	0.70
9:R:669:ASP:H	9:R:673:PRO:HG2	1.53	0.70
2:0:1310:ASP:OD1	2:0:1311:PHE:CD2	2.44	0.70
5:K:372:ALA:HA	5:K:375:ILE:HD12	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:V:298:PHE:CD2	11:V:299:GLN:N	2.60	0.70
7:O:381:THR:HA	7:O:703:TYR:HB2	1.69	0.70
7:M:381:THR:HA	7:M:703:TYR:HB2	1.69	0.70
7:M:1189:MET:HB3	8:N:248:GLN:C	2.17	0.70
11:V:273:VAL:O	11:V:355:TRP:HA	1.91	0.70
7:O:1189:MET:HB3	8:P:248:GLN:C	2.17	0.70
11:X:273:VAL:O	11:X:355:TRP:HA	1.91	0.70
1:b:252:UNK:CB	7:M:185:PHE:CE1	2.75	0.69
1:g:252:UNK:CB	7:O:185:PHE:CE1	2.75	0.69
8:N:223:PHE:CZ	8:N:258:ILE:HG22	2.27	0.69
9:R:669:ASP:N	9:R:673:PRO:CG	2.54	0.69
6:L:371:LYS:N	6:L:371:LYS:HD3	2.07	0.69
10:W:304:LYS:NZ	11:X:387:TYR:C	2.50	0.69
5:H:517:GLN:HE22	9:S:23:ASN:CB	2.04	0.69
9:T:669:ASP:N	9:T:673:PRO:CG	2.54	0.69
3:Z:1174:LEU:C	3:Z:1177:VAL:HG12	2.15	0.69
8:N:226:ASN:HA	8:N:229:SER:HB2	1.73	0.69
8:N:744:LEU:HD12	8:N:745:HIS:ND1	2.08	0.69
2:0:516:LEU:HD12	2:0:516:LEU:N	2.08	0.69
7:O:1336:ILE:CD1	7:O:1383:GLN:CG	2.67	0.69
10:W:276:ILE:HD12	10:W:283:ILE:HD13	1.74	0.69
6:F:353:LEU:HG	6:F:369:LEU:HD11	1.75	0.69
10:W:322:LEU:HG	10:W:322:LEU:O	1.91	0.69
5:E:373:ARG:HH21	6:F:307:SER:CB	2.05	0.69
7:M:1336:ILE:CD1	7:M:1383:GLN:CG	2.67	0.69
10:U:322:LEU:HG	10:U:322:LEU:O	1.91	0.69
1:7:72:UNK:C	9:R:426:PRO:HB3	2.22	0.69
7:M:1193:ARG:O	7:M:1194:LEU:C	2.35	0.69
7:M:1384:LEU:HD13	7:M:1412:TYR:CB	2.23	0.69
6:I:374:GLN:HA	6:I:374:GLN:HE21	1.57	0.69
8:N:216:TYR:HA	8:N:220:PHE:HD1	0.87	0.69
8:N:1357:CYS:HG	9:R:453:VAL:HG11	1.57	0.69
7:M:1408:LEU:HB3	7:M:1412:TYR:HE2	1.57	0.68
7:O:1193:ARG:O	7:O:1194:LEU:C	2.35	0.68
11:X:272:ILE:HG22	11:X:355:TRP:CE3	2.28	0.68
8:N:74:THR:CG2	8:N:162:HIS:HE1	2.05	0.68
6:I:373:PHE:HA	6:I:376:LYS:HE3	1.73	0.68
1:g:252:UNK:CB	7:O:185:PHE:HE1	2.06	0.68
2:Y:1086:ASN:HD22	2:Y:1094:ARG:HH22	1.42	0.68
9:Q:589:LEU:HD23	9:Q:603:VAL:HG21	1.75	0.68
2:0:1086:ASN:HD22	2:0:1094:ARG:HH22	1.42	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:1384:LEU:HD13	7:O:1412:TYR:CB	2.24	0.68
11:X:289:SER:OG	11:X:294:ILE:HD12	1.93	0.68
1:3:3:UNK:N	5:E:316:VAL:HB	2.08	0.68
1:b:252:UNK:CB	7:M:185:PHE:HE1	2.06	0.68
5:B:413:LEU:HA	6:C:373:PHE:CE1	2.28	0.68
7:M:1393:ASN:ND2	8:N:687:LYS:CE	2.50	0.68
11:V:272:ILE:HG22	11:V:355:TRP:CE3	2.28	0.68
5:H:413:LEU:CA	6:I:373:PHE:CE2	2.61	0.68
6:L:350:PHE:CE1	6:L:373:PHE:CZ	2.79	0.68
1:3:4:UNK:N	5:E:316:VAL:CG2	2.56	0.68
1:j:442:UNK:C	8:P:529:LEU:HD13	2.23	0.68
4:D:636:THR:C	4:D:637:LEU:HD23	2.18	0.68
2:0:517:LEU:HD13	2:0:517:LEU:O	1.94	0.68
3:1:1210:ALA:HB1	3:1:1218:ILE:HG23	1.76	0.68
7:O:1392:ILE:CG1	7:O:1437:LEU:HD12	2.22	0.68
7:O:1561:LEU:N	7:O:1580:VAL:CB	2.54	0.68
1:3:4:UNK:CA	5:E:316:VAL:HG23	2.24	0.68
1:m:354:UNK:HA	2:0:1309:ASN:HA	1.76	0.68
1:j:449:UNK:CB	8:P:534:GLN:OE1	2.41	0.68
10:U:268:LEU:HD13	10:U:283:ILE:HG13	1.73	0.68
3:1:344:GLN:OE1	3:1:497:CYS:HB2	1.92	0.68
7:O:1385:PHE:CE1	7:O:1426:VAL:CG2	2.76	0.68
7:O:1408:LEU:HB3	7:O:1412:TYR:HE2	1.57	0.68
7:M:1561:LEU:N	7:M:1580:VAL:CB	2.54	0.68
5:K:517:GLN:CD	9:T:23:ASN:CB	2.64	0.68
6:L:455:GLU:HG2	9:T:63:SER:CB	2.23	0.68
7:O:384:MET:HG2	7:O:766:GLN:CD	2.12	0.68
7:O:1182:ASN:O	7:O:1186:SER:HB2	1.93	0.68
7:M:1182:ASN:O	7:M:1186:SER:HB2	1.93	0.68
10:U:262:ILE:HG22	10:U:265:SER:OG	1.92	0.68
9:S:547:TYR:HB3	11:X:298:PHE:CB	2.23	0.68
9:S:592:LYS:O	9:S:600:ILE:HD12	1.93	0.68
1:m:342:UNK:CB	2:0:1261:ARG:NH1	2.55	0.68
4:D:636:THR:O	4:D:637:LEU:HD23	1.94	0.68
7:M:1392:ILE:CG1	7:M:1437:LEU:HD12	2.22	0.68
7:M:1559:LEU:HD21	7:O:1642:LYS:CD	2.23	0.68
1:k:284:UNK:CB	6:C:358:LEU:HB3	2.23	0.68
6:C:374:GLN:HA	6:C:374:GLN:NE2	2.09	0.68
4:J:793:LEU:HB3	6:L:439:ILE:HG22	1.72	0.67
3:1:494:ASN:HB3	3:1:512:ARG:CB	2.03	0.67
4:G:806:SER:OG	9:S:32:LEU:HA	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K:322:ILE:HD12	5:K:322:ILE:O	1.92	0.67
4:D:793:LEU:HB3	6:F:439:ILE:HG22	1.72	0.67
7:M:384:MET:HG2	7:M:766:GLN:CD	2.13	0.67
8:N:274:GLY:C	8:N:284:ILE:CB	2.67	0.67
9:Q:592:LYS:NZ	10:U:324:LYS:HD2	2.09	0.67
11:X:294:ILE:CA	11:X:361:ASN:HD21	2.06	0.67
6:C:371:LYS:N	6:C:371:LYS:HD2	2.09	0.67
9:S:592:LYS:NZ	10:W:324:LYS:HD2	2.09	0.67
1:7:82:UNK:C	1:7:84:UNK:H	2.06	0.67
1:8:82:UNK:C	1:8:84:UNK:H	2.06	0.67
7:M:1188:THR:HB	8:N:248:GLN:HG3	1.75	0.67
7:M:1642:LYS:CD	7:O:1559:LEU:HD21	2.23	0.67
11:V:273:VAL:HB	11:V:356:VAL:HG23	1.23	0.67
11:V:273:VAL:C	11:V:356:VAL:H	2.02	0.67
11:X:289:SER:CA	11:X:294:ILE:HD11	2.02	0.67
2:0:517:LEU:O	2:0:517:LEU:HD22	1.94	0.67
8:P:274:GLY:C	8:P:284:ILE:CB	2.68	0.67
8:N:306:VAL:HA	8:N:352:PHE:CE1	2.29	0.67
8:P:306:VAL:HA	8:P:352:PHE:CE1	2.30	0.67
7:O:1188:THR:HB	8:P:248:GLN:HG3	1.75	0.67
5:B:323:LEU:CG	5:B:349:PRO:HG2	2.25	0.67
7:M:1382:TYR:HE2	8:N:748:HIS:HE2	1.33	0.67
5:H:413:LEU:HB2	6:I:373:PHE:HZ	1.45	0.67
11:X:273:VAL:HB	11:X:356:VAL:HG23	1.23	0.67
11:X:273:VAL:C	11:X:356:VAL:H	2.03	0.67
7:M:1562:ASP:CA	7:M:1580:VAL:HG13	2.23	0.66
8:N:225:ARG:O	8:N:228:ASN:CB	2.42	0.66
7:O:1562:ASP:CA	7:O:1580:VAL:HG13	2.23	0.66
8:P:227:ILE:HD11	8:P:255:GLU:HA	1.77	0.66
11:X:289:SER:CB	11:X:294:ILE:HD13	1.84	0.66
2:Y:516:LEU:HD12	2:Y:516:LEU:N	2.09	0.66
4:D:793:LEU:HB3	6:F:439:ILE:HG21	1.76	0.66
8:N:65:SER:H	8:N:83:VAL:HG21	1.60	0.66
3:1:922:LYS:HA	3:1:922:LYS:HE3	1.77	0.66
7:M:1382:TYR:CE1	8:N:748:HIS:CE1	2.82	0.66
11:V:355:TRP:CD1	11:V:400:ILE:CG2	2.78	0.66
8:P:273:LEU:HD13	8:P:328:ILE:CD1	2.24	0.66
9:T:675:VAL:HG22	9:T:728:PHE:CE2	2.11	0.66
3:Z:922:LYS:HE3	3:Z:922:LYS:HA	1.77	0.66
3:Z:1191:LEU:HD13	3:Z:1215:TYR:HH	1.58	0.66
4:J:793:LEU:HB3	6:L:439:ILE:HG21	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K:371:GLN:O	5:K:375:ILE:HG13	1.96	0.66
1:7:76:UNK:O	9:R:429:THR:HG22	1.96	0.66
1:m:349:UNK:C	2:0:1305:SER:CB	2.74	0.66
1:n:342:UNK:CB	2:Y:1261:ARG:NH1	2.58	0.66
7:M:1429:ASP:O	7:M:1429:ASP:OD1	2.14	0.66
8:N:273:LEU:HD13	8:N:328:ILE:CD1	2.24	0.66
11:V:296:GLU:OE1	11:V:296:GLU:N	2.28	0.66
5:E:314:ASN:OD1	5:E:348:ILE:CD1	2.38	0.66
7:M:1580:VAL:HG23	7:M:1580:VAL:O	1.96	0.66
8:N:285:GLN:HG2	8:N:331:TYR:CE2	2.28	0.66
9:R:338:PHE:CZ	9:R:342:ARG:HD2	2.31	0.66
11:V:355:TRP:HZ2	11:V:401:ASP:C	2.04	0.66
2:0:516:LEU:HA	2:0:537:LYS:HZ3	1.57	0.66
8:P:285:GLN:HG2	8:P:331:TYR:CE2	2.28	0.66
11:X:355:TRP:HZ2	11:X:401:ASP:C	2.04	0.66
1:8:76:UNK:O	9:T:429:THR:HG22	1.96	0.66
6:C:369:LEU:N	6:C:369:LEU:HD23	2.11	0.66
8:N:267:ILE:CG2	8:N:271:LEU:HD11	2.26	0.66
3:1:493:ILE:CG2	3:1:494:ASN:N	2.36	0.66
7:O:1580:VAL:HG23	7:O:1580:VAL:O	1.96	0.66
8:P:267:ILE:CG2	8:P:271:LEU:HD11	2.26	0.66
9:T:338:PHE:CZ	9:T:342:ARG:HD2	2.31	0.66
11:X:355:TRP:CD1	11:X:400:ILE:CG2	2.79	0.66
1:b:265:UNK:CB	7:M:976:ALA:HB3	2.26	0.66
2:Y:1019:ARG:HG3	9:R:246:ASN:HB2	1.77	0.66
7:M:1192:VAL:HG12	7:M:1193:ARG:N	2.04	0.66
9:R:675:VAL:HG22	9:R:728:PHE:CE2	2.11	0.66
2:0:1019:ARG:HG3	9:T:246:ASN:HB2	1.77	0.66
5:K:363:GLN:HG3	5:K:364:VAL:N	2.11	0.66
5:E:363:GLN:HG3	5:E:364:VAL:N	2.11	0.66
5:K:371:GLN:HA	5:K:371:GLN:NE2	2.11	0.66
1:b:245:UNK:C	7:M:115:GLN:NE2	2.60	0.66
7:O:1560:GLY:CA	7:O:1580:VAL:CG2	2.73	0.66
11:X:294:ILE:HG22	11:X:361:ASN:ND2	2.11	0.66
1:g:245:UNK:C	7:O:115:GLN:NE2	2.60	0.65
7:M:335:ASP:H	7:M:771:ARG:NH2	1.94	0.65
7:M:1560:GLY:CA	7:M:1580:VAL:CG2	2.73	0.65
8:N:741:LYS:HA	8:N:744:LEU:HD23	1.75	0.65
7:O:1192:VAL:HG12	7:O:1193:ARG:N	2.04	0.65
1:m:350:UNK:N	2:0:1305:SER:HB2	2.08	0.65
1:n:350:UNK:CB	2:Y:1305:SER:HA	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:800:HIS:ND1	9:Q:27:GLU:CB	2.58	0.65
1:k:289:UNK:N	5:E:370:ALA:CB	2.59	0.65
9:R:435:TRP:CH2	9:R:474:PHE:CD1	2.84	0.65
7:O:335:ASP:H	7:O:771:ARG:NH2	1.94	0.65
1:m:350:UNK:HA	2:0:1305:SER:CA	2.27	0.65
9:T:435:TRP:CH2	9:T:474:PHE:CD1	2.84	0.65
7:M:1378:ASP:O	7:M:1379:GLY:C	2.40	0.65
7:M:1388:CYS:O	7:M:1392:ILE:HD12	1.95	0.65
5:K:317:ASN:HB2	5:K:348:ILE:CD1	2.24	0.65
11:X:361:ASN:C	11:X:361:ASN:OD1	2.39	0.65
1:m:349:UNK:CB	2:0:1305:SER:OG	2.44	0.65
7:O:990:ILE:HD11	7:O:996:LEU:HB2	1.78	0.65
7:O:1378:ASP:O	7:O:1379:GLY:C	2.40	0.65
7:O:1388:CYS:O	7:O:1392:ILE:HD12	1.95	0.65
9:Q:680:ASN:OD1	10:U:321:GLU:HB3	1.96	0.65
9:T:472:SER:O	9:T:473:ARG:HG2	1.97	0.65
10:W:248:TRP:HB2	11:X:346:LYS:O	1.97	0.65
10:U:248:TRP:HB2	11:V:346:LYS:O	1.97	0.65
10:U:322:LEU:HD12	10:U:325:SER:CB	2.27	0.65
3:1:1215:TYR:CB	3:1:1218:ILE:HG22	2.26	0.65
5:H:517:GLN:NE2	9:S:23:ASN:CB	2.60	0.65
6:L:353:LEU:HD11	6:L:369:LEU:HD12	1.77	0.65
9:S:680:ASN:OD1	10:W:321:GLU:HB3	1.96	0.65
1:8:76:UNK:CB	9:T:429:THR:OG1	2.45	0.65
1:b:238:UNK:CB	7:M:122:ASN:CB	2.75	0.65
7:O:1389:ILE:HG21	8:P:687:LYS:CB	2.27	0.65
10:W:322:LEU:HD12	10:W:325:SER:CB	2.27	0.65
1:g:238:UNK:CA	7:O:123:CYS:HB2	2.26	0.65
3:Z:1215:TYR:HB2	3:Z:1218:ILE:HG12	1.77	0.65
8:N:216:TYR:N	8:N:220:PHE:CE1	2.65	0.65
9:R:472:SER:O	9:R:473:ARG:HG2	1.97	0.65
5:E:314:ASN:HD22	5:E:350:ILE:HG12	1.62	0.64
9:Q:601:PRO:HB3	9:Q:605:GLU:CD	2.22	0.64
8:P:68:HIS:O	8:P:69:ASN:CB	2.45	0.64
2:0:1310:ASP:CG	2:0:1311:PHE:CE2	2.74	0.64
1:7:76:UNK:CB	9:R:429:THR:OG1	2.46	0.64
1:n:357:UNK:CB	2:Y:1309:ASN:O	2.45	0.64
5:B:323:LEU:HG	5:B:342:LYS:HZ3	1.62	0.64
8:N:69:ASN:HB3	8:N:71:LEU:HG	1.78	0.64
5:K:317:ASN:CG	5:K:320:GLU:OE2	2.39	0.64
1:c:313:UNK:O	1:c:317:UNK:C	2.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:N:327:PHE:CD1	8:N:389:PHE:CD2	2.85	0.64
1:g:238:UNK:CB	7:O:123:CYS:HB3	2.25	0.64
1:j:442:UNK:O	8:P:529:LEU:HD11	1.95	0.64
2:Y:517:LEU:O	2:Y:535:VAL:HG13	1.97	0.64
2:Y:1358:GLU:HB2	3:1:787:ALA:N	2.10	0.64
9:Q:596:ASP:OD1	9:Q:597:GLY:N	2.31	0.64
5:H:413:LEU:CB	6:I:373:PHE:CZ	2.56	0.64
5:K:322:ILE:HD13	5:K:323:LEU:HG	1.79	0.64
8:P:221:VAL:HG11	8:P:316:ILE:HG23	1.79	0.64
8:P:761:PHE:HZ	8:P:765:PHE:CE1	2.10	0.64
9:T:435:TRP:CH2	9:T:474:PHE:HE1	2.12	0.64
5:E:357:GLY:O	5:E:360:GLN:HG2	1.97	0.64
7:M:1380:ARG:H	7:M:1380:ARG:CD	2.08	0.64
8:N:1497:ASN:O	9:Q:146:LYS:CB	2.45	0.64
4:G:792:GLN:NE2	9:S:17:GLY:HA2	2.13	0.64
6:I:374:GLN:HA	6:I:374:GLN:NE2	2.12	0.64
7:O:444:THR:HG23	7:O:506:ASN:HD22	1.63	0.64
8:P:1497:ASN:O	9:S:146:LYS:CB	2.45	0.64
10:W:271:ALA:CB	10:W:283:ILE:HB	2.28	0.64
7:M:444:THR:HG23	7:M:506:ASN:HD22	1.63	0.64
8:N:216:TYR:N	8:N:220:PHE:HE1	1.95	0.64
8:N:761:PHE:HZ	8:N:765:PHE:CE1	2.10	0.64
9:R:435:TRP:CH2	9:R:474:PHE:HE1	2.12	0.64
9:R:577:ARG:HG3	9:R:623:ILE:HG23	1.79	0.64
10:W:280:PHE:HD2	10:W:282:VAL:HG13	1.61	0.64
1:7:76:UNK:C	9:R:429:THR:CG2	2.76	0.64
1:3:2:UNK:N	5:E:316:VAL:N	2.46	0.64
2:Y:1465:ILE:HG23	2:Y:1487:TYR:HB3	1.80	0.64
7:M:1393:ASN:HD21	8:N:687:LYS:NZ	1.95	0.64
11:V:298:PHE:CG	11:V:299:GLN:N	2.64	0.64
7:O:1561:LEU:CA	7:O:1580:VAL:HG11	2.28	0.64
9:T:577:ARG:HG3	9:T:623:ILE:HG23	1.79	0.64
11:X:289:SER:HB3	11:X:294:ILE:HD11	0.66	0.64
1:8:76:UNK:C	9:T:429:THR:CG2	2.76	0.64
1:m:357:UNK:CB	2:0:1309:ASN:O	2.45	0.64
2:0:1310:ASP:OD2	2:0:1311:PHE:CD2	2.49	0.64
5:B:323:LEU:CD1	5:B:339:MET:CG	2.76	0.64
9:T:436:LEU:HD11	9:T:462:PHE:CE2	2.33	0.64
1:m:350:UNK:HA	2:0:1305:SER:HB2	1.78	0.63
1:n:365:UNK:CB	2:Y:1286:ASP:O	2.46	0.63
3:Z:1215:TYR:CB	3:Z:1218:ILE:CG1	2.73	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:M:1561:LEU:CA	7:M:1580:VAL:HG11	2.28	0.63
9:R:436:LEU:HD11	9:R:462:PHE:CE2	2.33	0.63
2:0:1465:ILE:HG23	2:0:1487:TYR:HB3	1.80	0.63
7:M:1189:MET:CE	8:N:252:TYR:CB	2.68	0.63
3:1:1199:VAL:O	3:1:1200:LEU:CG	2.46	0.63
3:1:922:LYS:HA	3:1:922:LYS:CE	2.29	0.63
7:O:1189:MET:CE	8:P:252:TYR:CB	2.68	0.63
10:W:271:ALA:HB2	10:W:283:ILE:HG22	1.79	0.63
3:Z:922:LYS:HA	3:Z:922:LYS:CE	2.29	0.63
7:M:333:GLU:O	7:M:771:ARG:NH2	2.31	0.63
8:N:249:ASP:OD1	8:N:835:LEU:HD21	1.97	0.63
9:R:675:VAL:CG2	9:R:728:PHE:CZ	2.78	0.63
2:0:1019:ARG:HB3	9:T:246:ASN:H	1.63	0.63
4:G:796:ILE:HG21	9:S:20:LYS:CB	2.28	0.63
7:O:333:GLU:O	7:O:771:ARG:NH2	2.31	0.63
10:W:266:ILE:HD11	10:W:336:ASN:HB2	1.80	0.63
1:3:4:UNK:CB	5:E:316:VAL:CG2	2.72	0.63
2:Y:1019:ARG:HB3	9:R:246:ASN:H	1.63	0.63
3:Z:493:ILE:HD12	3:Z:511:VAL:CG1	2.29	0.63
5:E:510:VAL:HG11	9:R:16:LYS:CB	2.28	0.63
8:N:744:LEU:HD11	8:N:745:HIS:CE1	2.32	0.63
11:V:274:PHE:CE1	11:V:383:GLY:O	2.52	0.63
3:1:493:ILE:HG21	3:1:512:ARG:O	1.97	0.63
4:G:810:ASN:CB	9:S:35:ALA:HB1	2.23	0.63
9:T:675:VAL:CG2	9:T:728:PHE:CZ	2.78	0.63
11:X:274:PHE:CE1	11:X:383:GLY:O	2.52	0.63
1:j:446:UNK:CB	8:P:530:THR:O	2.47	0.63
11:X:297:ASP:OD1	11:X:301:LEU:HG	1.98	0.63
5:E:380:LEU:HD11	6:F:314:TYR:CE2	2.34	0.63
7:M:1379:GLY:O	7:M:1383:GLN:NE2	2.31	0.63
2:0:1019:ARG:HB3	9:T:246:ASN:HB2	1.80	0.63
1:k:289:UNK:N	5:E:370:ALA:HB1	2.14	0.63
3:Z:1177:VAL:HG11	3:Z:1195:LEU:HD12	1.79	0.63
5:E:517:GLN:HE21	9:R:24:GLU:C	1.95	0.63
8:N:71:LEU:HB3	8:N:164:TYR:CE1	2.30	0.63
5:K:380:LEU:HD11	6:L:314:TYR:CE2	2.34	0.63
1:j:443:UNK:HA	8:P:529:LEU:HD13	1.75	0.62
2:Y:516:LEU:HD12	2:Y:516:LEU:H	1.63	0.62
3:Z:1165:ASP:O	3:Z:1169:ILE:HG13	1.99	0.62
9:R:671:ASP:N	9:R:671:ASP:OD1	2.28	0.62
7:O:1376:THR:HG21	7:O:1380:ARG:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:1379:GLY:O	7:O:1383:GLN:NE2	2.31	0.62
9:T:671:ASP:OD1	9:T:671:ASP:N	2.28	0.62
2:Y:1019:ARG:HB3	9:R:246:ASN:HB2	1.81	0.62
3:1:1165:ASP:O	3:1:1169:ILE:HG13	1.99	0.62
8:P:613:GLU:CB	8:P:617:TYR:CD2	2.81	0.62
3:Z:1209:CYS:O	3:Z:1213:LEU:CG	2.47	0.62
8:N:761:PHE:CG	8:N:761:PHE:O	2.52	0.62
6:I:371:LYS:N	6:I:371:LYS:HD2	2.14	0.62
7:M:1562:ASP:N	7:M:1580:VAL:HG13	2.13	0.62
8:N:613:GLU:CB	8:N:617:TYR:CD2	2.81	0.62
3:1:496:THR:O	3:1:498:ALA:N	2.33	0.62
3:1:1173:LEU:HD12	3:1:1195:LEU:HD13	1.80	0.62
3:Z:1215:TYR:O	3:Z:1218:ILE:HG12	1.99	0.62
5:K:316:VAL:CG1	5:K:348:ILE:CG1	2.72	0.62
6:L:369:LEU:HD23	6:L:369:LEU:C	2.23	0.62
11:X:296:GLU:O	11:X:346:LYS:CG	2.42	0.62
1:n:349:UNK:CB	2:Y:1305:SER:OG	2.48	0.62
5:E:364:VAL:O	5:E:367:GLU:HG2	1.99	0.62
7:M:1490:ARG:HH12	9:R:825:PRO:HA	1.64	0.62
9:Q:589:LEU:O	9:Q:603:VAL:HG22	2.00	0.62
7:O:1562:ASP:N	7:O:1580:VAL:HG13	2.13	0.62
8:P:761:PHE:CG	8:P:761:PHE:O	2.52	0.62
6:F:455:GLU:OE1	6:F:456:ARG:CD	2.39	0.62
8:N:225:ARG:C	8:N:228:ASN:HB2	2.23	0.62
2:0:1019:ARG:HB3	9:T:246:ASN:CB	2.30	0.62
9:T:407:TYR:CD1	9:T:428:VAL:CG1	2.83	0.62
5:E:316:VAL:O	5:E:348:ILE:HD12	1.98	0.62
8:N:277:THR:HG22	8:N:381:VAL:CG2	2.30	0.62
9:R:407:TYR:CD1	9:R:428:VAL:CG1	2.83	0.62
7:O:1490:ARG:HH12	9:T:825:PRO:HA	1.64	0.62
2:Y:1019:ARG:HB3	9:R:246:ASN:CB	2.30	0.62
3:Z:1191:LEU:CD2	3:Z:1213:LEU:CD2	2.76	0.62
4:D:673:GLY:HA3	5:E:315:LYS:HZ2	1.65	0.62
9:R:676:GLY:N	9:R:677:PRO:CD	2.63	0.62
6:L:371:LYS:HD3	6:L:371:LYS:H	1.65	0.62
8:P:277:THR:HG22	8:P:381:VAL:CG2	2.30	0.62
2:Y:1019:ARG:HB3	9:R:246:ASN:N	2.15	0.62
3:Z:1173:LEU:HD22	3:Z:1205:LEU:HD21	1.78	0.62
4:D:800:HIS:CE1	5:E:517:GLN:OE1	2.53	0.61
9:Q:601:PRO:CB	9:Q:605:GLU:HB2	2.16	0.61
9:T:676:GLY:N	9:T:677:PRO:CD	2.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:393:UNK:HA	8:N:389:PHE:HB3	1.83	0.61
7:M:1379:GLY:HA3	7:M:1380:ARG:NH1	2.15	0.61
7:M:1389:ILE:HD13	7:M:1389:ILE:N	2.15	0.61
2:0:1019:ARG:HB3	9:T:246:ASN:N	2.15	0.61
6:L:434:THR:CA	6:L:438:ALA:HB2	2.13	0.61
9:T:159:PHE:HA	9:T:162:LEU:CB	2.30	0.61
11:X:296:GLU:OE1	11:X:296:GLU:N	2.33	0.61
3:Z:1173:LEU:HD21	3:Z:1205:LEU:CD2	2.29	0.61
3:Z:1213:LEU:HD12	3:Z:1215:TYR:H	1.65	0.61
3:1:1191:LEU:HD22	3:1:1215:TYR:CE2	2.34	0.61
7:O:1389:ILE:HD13	7:O:1389:ILE:N	2.15	0.61
8:P:68:HIS:O	8:P:69:ASN:CG	2.43	0.61
3:Z:1174:LEU:CA	3:Z:1177:VAL:HG12	2.30	0.61
7:M:1391:GLY:C	7:M:1393:ASN:H	2.08	0.61
3:1:1191:LEU:CD1	3:1:1215:TYR:OH	2.47	0.61
8:P:761:PHE:CD1	8:P:764:LYS:HD3	2.32	0.61
1:8:80:UNK:CB	9:T:430:LEU:O	2.48	0.61
1:c:326:UNK:CB	7:M:889:ILE:HD11	2.31	0.61
1:7:80:UNK:CB	9:R:430:LEU:O	2.48	0.61
3:Z:1174:LEU:HA	3:Z:1177:VAL:CG1	2.31	0.61
8:N:761:PHE:CD1	8:N:764:LYS:HD3	2.32	0.61
10:U:268:LEU:CA	10:U:283:ILE:CD1	1.74	0.61
3:1:1170:GLN:HA	3:1:1173:LEU:CD2	2.31	0.61
3:1:1199:VAL:O	3:1:1200:LEU:HG	2.00	0.61
4:D:637:LEU:HD22	4:D:637:LEU:N	2.14	0.61
4:J:803:ALA:HA	9:T:31:ASN:CB	2.31	0.61
7:O:336:LYS:HG2	7:O:771:ARG:HD3	1.81	0.61
7:O:1391:GLY:C	7:O:1393:ASN:H	2.08	0.61
1:k:288:UNK:CB	5:E:367:GLU:HA	2.31	0.61
3:Z:1213:LEU:CD1	3:Z:1215:TYR:N	2.63	0.61
4:D:793:LEU:CB	6:F:439:ILE:CG2	2.74	0.61
7:M:336:LYS:HG2	7:M:771:ARG:HD3	1.81	0.61
9:Q:573:HIS:CD2	9:Q:623:ILE:HD11	2.36	0.61
9:R:312:LYS:HE2	9:R:430:LEU:CD2	2.26	0.61
11:V:273:VAL:HG23	11:V:356:VAL:C	2.25	0.61
9:S:573:HIS:CD2	9:S:623:ILE:HD11	2.36	0.61
11:X:273:VAL:HG23	11:X:356:VAL:C	2.25	0.61
3:1:1170:GLN:OE1	3:1:1205:LEU:HD22	1.99	0.60
4:J:793:LEU:CB	6:L:439:ILE:CG2	2.74	0.60
7:O:1671:VAL:CG1	9:T:166:LYS:CA	2.69	0.60
9:T:680:ASN:HB2	9:T:683:THR:HG22	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:397:UNK:HA	8:P:423:LYS:HE2	1.83	0.60
3:Z:1170:GLN:HA	3:Z:1173:LEU:CD2	2.31	0.60
7:M:1389:ILE:CG2	8:N:687:LYS:CD	2.79	0.60
7:O:990:ILE:HB	7:O:999:LYS:NZ	2.11	0.60
9:T:312:LYS:HE2	9:T:430:LEU:CD2	2.26	0.60
1:7:76:UNK:CA	9:R:429:THR:CG2	2.79	0.60
9:R:680:ASN:HB2	9:R:683:THR:HG22	1.82	0.60
11:V:271:ILE:HG22	11:V:271:ILE:O	2.01	0.60
5:K:361:ARG:O	5:K:365:GLN:HG3	2.01	0.60
2:Y:516:LEU:H	2:Y:516:LEU:CD1	2.15	0.60
7:O:1193:ARG:C	7:O:1195:PHE:N	2.59	0.60
11:X:355:TRP:HZ2	11:X:401:ASP:O	1.84	0.60
1:m:353:UNK:CB	2:0:1309:ASN:CB	2.79	0.60
1:n:347:UNK:CB	2:Y:1328:ALA:HB1	2.32	0.60
1:n:349:UNK:C	2:Y:1305:SER:CB	2.80	0.60
1:n:354:UNK:HA	2:Y:1309:ASN:HA	1.84	0.60
3:Z:1173:LEU:CD1	3:Z:1195:LEU:HD22	2.32	0.60
7:M:384:MET:CB	7:M:766:GLN:HE22	2.14	0.60
7:M:1193:ARG:C	7:M:1195:PHE:N	2.59	0.60
9:R:638:TYR:C	9:R:638:TYR:CD2	2.79	0.60
11:V:273:VAL:HG21	11:V:358:LEU:HG	1.82	0.60
11:V:355:TRP:HZ2	11:V:401:ASP:O	1.84	0.60
7:O:384:MET:CB	7:O:766:GLN:HE22	2.15	0.60
11:X:273:VAL:HG21	11:X:358:LEU:HG	1.81	0.60
1:8:76:UNK:CA	9:T:429:THR:CG2	2.79	0.60
5:E:436:MET:SD	6:F:370:ASP:HB3	2.41	0.60
9:Q:547:TYR:HB3	11:V:298:PHE:CD1	2.36	0.60
7:O:1392:ILE:HG22	7:O:1392:ILE:O	2.01	0.60
9:T:638:TYR:C	9:T:638:TYR:CD2	2.79	0.60
1:m:365:UNK:CB	2:0:1286:ASP:O	2.50	0.60
3:Z:1213:LEU:HD13	3:Z:1215:TYR:CD2	2.22	0.60
5:E:360:GLN:C	5:E:363:GLN:HG2	2.26	0.60
5:E:436:MET:SD	6:F:370:ASP:CB	2.90	0.60
8:N:350:ALA:O	8:N:354:GLU:HG2	2.01	0.60
8:P:350:ALA:O	8:P:354:GLU:HG2	2.01	0.60
3:Z:1210:ALA:HB1	3:Z:1218:ILE:HG13	1.84	0.60
5:B:323:LEU:HD12	5:B:339:MET:CA	1.95	0.60
7:M:1392:ILE:O	7:M:1392:ILE:HG22	2.01	0.60
9:R:736:LEU:HD13	9:R:785:MET:HE1	1.84	0.60
7:O:1381:LEU:HG	7:O:1385:PHE:CE2	2.37	0.60
2:Y:515:VAL:O	2:Y:537:LYS:NZ	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:1195:LEU:O	3:Z:1197:GLY:N	2.35	0.60
7:M:383:ASN:ND2	7:M:767:ILE:HG23	2.16	0.60
5:K:360:GLN:C	5:K:363:GLN:HG2	2.26	0.60
7:O:383:ASN:ND2	7:O:767:ILE:HG23	2.16	0.60
1:3:2:UNK:C	5:E:316:VAL:HB	2.32	0.60
8:N:249:ASP:OD2	8:N:835:LEU:HG	2.01	0.60
10:U:284:LYS:HG2	10:U:284:LYS:O	2.02	0.60
3:1:1177:VAL:CG2	3:1:1215:TYR:OH	2.49	0.60
3:Z:1174:LEU:HA	3:Z:1195:LEU:HD13	1.84	0.59
2:0:1309:ASN:OD1	2:0:1310:ASP:N	2.35	0.59
3:1:494:ASN:O	3:1:511:VAL:HA	2.02	0.59
7:O:1376:THR:O	7:O:1380:ARG:NH2	2.35	0.59
9:T:736:LEU:HD13	9:T:785:MET:HE1	1.84	0.59
1:k:288:UNK:CB	5:E:366:THR:O	2.50	0.59
1:k:288:UNK:CA	5:E:367:GLU:HA	2.33	0.59
3:Z:1213:LEU:CD1	3:Z:1215:TYR:CE2	2.84	0.59
8:N:327:PHE:CA	8:N:389:PHE:HE2	2.15	0.59
7:O:125:HIS:CG	7:O:126:GLU:H	2.19	0.59
1:m:347:UNK:CB	2:0:1328:ALA:HB1	2.32	0.59
1:j:446:UNK:CA	8:P:531:ILE:HD13	2.32	0.59
2:Y:1309:ASN:OD1	2:Y:1310:ASP:N	2.35	0.59
7:M:125:HIS:CG	7:M:126:GLU:H	2.19	0.59
11:X:271:ILE:HG22	11:X:271:ILE:O	2.01	0.59
1:m:350:UNK:CA	2:0:1305:SER:HB2	2.31	0.59
3:Z:1209:CYS:O	3:Z:1213:LEU:CD2	2.49	0.59
4:J:665:TRP:CZ3	5:K:365:GLN:NE2	2.71	0.59
5:K:331:LEU:HD23	5:K:331:LEU:H	1.68	0.59
5:E:331:LEU:HD23	5:E:331:LEU:H	1.68	0.59
7:M:1189:MET:N	8:N:248:GLN:CD	2.60	0.59
8:N:225:ARG:O	8:N:229:SER:N	2.35	0.59
1:b:256:UNK:CB	7:M:181:PHE:CZ	2.84	0.59
4:D:670:VAL:HG12	5:E:315:LYS:HG3	1.85	0.59
10:U:313:TRP:HE1	10:U:358:LYS:H	1.50	0.59
7:O:245:ARG:H	7:O:245:ARG:HD3	1.67	0.59
7:M:245:ARG:H	7:M:245:ARG:HD3	1.68	0.59
9:R:282:PHE:CE1	9:R:342:ARG:CZ	2.85	0.59
11:V:274:PHE:HA	11:V:354:SER:O	2.02	0.59
3:1:1215:TYR:HB2	3:1:1218:ILE:HG21	1.83	0.59
7:O:1189:MET:N	8:P:248:GLN:CD	2.60	0.59
10:W:313:TRP:HE1	10:W:358:LYS:H	1.50	0.59
3:Z:1177:VAL:CG2	3:Z:1215:TYR:OH	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:U:268:LEU:HD12	10:U:283:ILE:HG12	1.80	0.59
9:T:282:PHE:CE1	9:T:342:ARG:CZ	2.85	0.59
10:W:304:LYS:HD3	11:X:387:TYR:O	2.03	0.59
7:M:384:MET:CA	7:M:766:GLN:OE1	2.41	0.59
8:N:327:PHE:HA	8:N:389:PHE:CE2	2.37	0.59
9:R:73:LEU:CB	9:S:72:LEU:CB	2.81	0.59
11:V:289:SER:HA	11:V:294:ILE:CD1	2.28	0.59
7:M:1389:ILE:HG21	8:N:687:LYS:CB	2.27	0.59
7:M:1561:LEU:CA	7:M:1580:VAL:HG21	2.30	0.59
8:N:1259:PHE:HZ	9:Q:133:ILE:CB	2.16	0.59
3:1:494:ASN:HB2	3:1:512:ARG:N	2.17	0.59
7:O:384:MET:CA	7:O:766:GLN:OE1	2.41	0.59
11:X:274:PHE:HA	11:X:354:SER:O	2.03	0.59
1:8:70:UNK:CB	9:T:469:TYR:CZ	2.85	0.58
1:b:246:UNK:CB	7:M:12:TYR:HH	2.15	0.58
10:U:322:LEU:HD12	10:U:325:SER:HB2	1.84	0.58
6:I:376:LYS:HB2	6:I:376:LYS:NZ	2.18	0.58
8:P:1259:PHE:HZ	9:S:133:ILE:CB	2.16	0.58
5:B:322:ILE:HD12	5:B:322:ILE:O	2.02	0.58
11:V:273:VAL:O	11:V:355:TRP:CA	2.51	0.58
4:G:810:ASN:CG	9:S:35:ALA:CB	2.76	0.58
7:O:1561:LEU:CA	7:O:1580:VAL:HG21	2.30	0.58
9:S:584:LYS:HE2	9:S:636:ARG:CD	2.32	0.58
10:W:271:ALA:CB	10:W:283:ILE:HG22	2.33	0.58
10:W:322:LEU:HD12	10:W:325:SER:HB2	1.85	0.58
1:b:245:UNK:O	7:M:115:GLN:NE2	2.37	0.58
1:g:245:UNK:O	7:O:115:GLN:NE2	2.37	0.58
9:Q:115:ILE:O	9:Q:120:GLU:CB	2.51	0.58
3:1:494:ASN:HB2	3:1:512:ARG:O	2.04	0.58
10:W:271:ALA:HB1	10:W:283:ILE:HB	1.84	0.58
11:X:273:VAL:O	11:X:355:TRP:CA	2.51	0.58
11:V:273:VAL:O	11:V:356:VAL:N	2.35	0.58
5:H:524:ASN:ND2	9:S:30:ASP:CB	2.67	0.58
3:Z:1185:GLU:OE2	3:Z:1188:ARG:HD2	2.03	0.58
8:P:613:GLU:HB3	8:P:617:TYR:CD2	2.39	0.58
10:W:330:GLU:HG3	10:W:330:GLU:O	2.03	0.58
8:N:56:ASN:HD22	8:N:144:ILE:HG12	1.68	0.58
8:N:613:GLU:HB3	8:N:617:TYR:CD2	2.39	0.58
4:G:809:ASP:OD1	9:S:35:ALA:O	2.22	0.58
8:P:56:ASN:HD22	8:P:144:ILE:HG12	1.68	0.58
8:P:529:LEU:CD2	8:P:531:ILE:CD1	2.79	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:365:UNK:CB	2:Y:1286:ASP:HA	2.34	0.58
3:Z:1130:ARG:NH2	3:Z:1198:ARG:HE	2.01	0.58
6:L:353:LEU:HD11	6:L:369:LEU:HD13	1.84	0.58
11:X:273:VAL:O	11:X:356:VAL:N	2.35	0.58
3:Z:407:ALA:HB1	3:Z:495:THR:HB	1.86	0.58
3:Z:1191:LEU:CD1	3:Z:1215:TYR:HH	2.13	0.58
7:M:1389:ILE:CD1	8:N:686:GLY:O	2.51	0.58
9:R:339:TYR:HD1	9:R:342:ARG:HD3	1.69	0.58
7:O:1382:TYR:CE1	8:P:744:LEU:CD2	2.87	0.58
2:Y:1019:ARG:HG3	9:R:246:ASN:CB	2.33	0.58
5:E:314:ASN:OD1	5:E:316:VAL:O	2.21	0.58
7:M:1377:VAL:O	7:M:1377:VAL:HG12	2.03	0.58
8:N:215:GLN:C	8:N:220:PHE:CE1	2.82	0.58
5:H:322:ILE:CG2	5:H:335:TRP:CH2	2.83	0.58
7:O:1389:ILE:CD1	8:P:686:GLY:O	2.51	0.58
10:W:271:ALA:CB	10:W:283:ILE:CG2	2.82	0.58
11:X:296:GLU:O	11:X:346:LYS:CE	2.51	0.58
5:K:317:ASN:HD21	5:K:320:GLU:CD	2.10	0.57
8:P:613:GLU:OE2	8:P:617:TYR:CG	2.55	0.57
9:T:339:TYR:HD1	9:T:342:ARG:HD3	1.69	0.57
10:W:276:ILE:CG2	10:W:282:VAL:HG21	2.26	0.57
10:W:304:LYS:HZ3	11:X:388:SER:N	2.02	0.57
2:Y:443:GLY:CA	2:Y:519:THR:OG1	2.52	0.57
8:N:613:GLU:OE2	8:N:617:TYR:CG	2.55	0.57
5:K:322:ILE:HD12	5:K:322:ILE:C	2.29	0.57
7:O:990:ILE:CD1	7:O:996:LEU:HB2	2.34	0.57
7:O:1381:LEU:CG	7:O:1385:PHE:CE2	2.87	0.57
7:M:1392:ILE:HG21	7:M:1437:LEU:CB	2.34	0.57
3:1:917:GLU:CG	3:1:918:MET:H	1.95	0.57
3:Z:917:GLU:CG	3:Z:918:MET:H	1.95	0.57
7:M:335:ASP:N	7:M:771:ARG:NH2	2.53	0.57
2:0:1019:ARG:HG3	9:T:246:ASN:CB	2.33	0.57
8:P:286:SER:HB2	8:P:287:PRO:HD3	1.85	0.57
1:i:397:UNK:CA	8:P:423:LYS:HE2	2.33	0.57
3:Z:1210:ALA:HA	3:Z:1218:ILE:HD11	1.86	0.57
5:B:323:LEU:CD1	5:B:339:MET:HG3	2.32	0.57
8:N:286:SER:HB2	8:N:287:PRO:HD3	1.85	0.57
7:O:335:ASP:N	7:O:771:ARG:NH2	2.53	0.57
1:n:350:UNK:HA	2:Y:1305:SER:CA	2.35	0.57
5:B:323:LEU:CB	5:B:323:LEU:HG	2.35	0.57
7:M:383:ASN:O	7:M:766:GLN:HB2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:1392:ILE:HG21	7:O:1437:LEU:CB	2.34	0.57
1:c:325:UNK:CB	7:M:796:ILE:CG2	2.82	0.57
9:R:58:SER:C	9:R:60:ASN:H	2.11	0.57
3:Z:1213:LEU:HD13	3:Z:1215:TYR:CZ	2.39	0.57
9:R:61:LYS:O	9:R:62:ALA:HB2	2.05	0.57
11:V:273:VAL:HB	11:V:356:VAL:C	2.28	0.57
2:0:517:LEU:H	2:0:537:LYS:HZ2	1.52	0.57
3:1:599:LEU:HD23	3:1:599:LEU:H	1.70	0.57
5:K:380:LEU:HD22	6:L:314:TYR:CE2	2.33	0.57
7:O:384:MET:HG2	7:O:766:GLN:HE21	1.52	0.57
11:X:273:VAL:HB	11:X:356:VAL:C	2.28	0.57
7:M:1395:PRO:HD2	7:M:1396:LEU:H	1.70	0.57
9:T:58:SER:C	9:T:60:ASN:H	2.11	0.57
9:T:61:LYS:O	9:T:62:ALA:HB2	2.05	0.57
10:W:276:ILE:HG21	10:W:282:VAL:CG2	2.32	0.57
3:Z:599:LEU:HD23	3:Z:599:LEU:H	1.70	0.57
8:N:64:SER:HB3	8:N:73:SER:CB	2.31	0.57
8:N:65:SER:OG	8:N:83:VAL:CG1	2.39	0.57
7:O:383:ASN:O	7:O:766:GLN:HB2	2.03	0.57
7:O:1395:PRO:HD2	7:O:1396:LEU:H	1.70	0.57
11:X:275:GLY:H	11:X:354:SER:C	2.13	0.57
1:m:350:UNK:CA	2:0:1305:SER:CA	2.83	0.56
4:D:673:GLY:HA3	5:E:315:LYS:HZ1	1.68	0.56
5:E:380:LEU:HD22	6:F:314:TYR:CE2	2.33	0.56
8:N:216:TYR:C	8:N:220:PHE:HD1	2.13	0.56
8:N:267:ILE:CG2	8:N:271:LEU:CD1	2.79	0.56
11:V:275:GLY:H	11:V:354:SER:C	2.13	0.56
5:K:316:VAL:HG12	5:K:348:ILE:HG13	1.85	0.56
5:K:325:THR:O	5:K:326:LYS:HG2	2.05	0.56
5:E:314:ASN:HD21	5:E:348:ILE:CG1	2.13	0.56
7:M:1579:ASN:ND2	9:T:173:LYS:O	2.38	0.56
9:Q:601:PRO:CB	9:Q:605:GLU:CB	2.80	0.56
3:1:1183:ILE:HG21	3:1:1213:LEU:CD1	2.35	0.56
6:L:353:LEU:CD1	6:L:369:LEU:HD12	2.33	0.56
6:L:371:LYS:H	6:L:371:LYS:CD	2.18	0.56
1:n:353:UNK:CB	2:Y:1309:ASN:CB	2.80	0.56
3:Z:1215:TYR:O	3:Z:1218:ILE:CG1	2.54	0.56
5:E:510:VAL:CG1	9:R:16:LYS:CB	2.83	0.56
6:F:394:ILE:CD1	9:R:40:GLY:O	2.52	0.56
7:M:335:ASP:OD1	7:M:857:GLY:HA3	2.05	0.56
7:M:384:MET:HG2	7:M:766:GLN:HE21	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:690:ARG:HG3	9:R:718:LEU:HD22	1.87	0.56
3:1:1210:ALA:CB	3:1:1218:ILE:HG23	2.34	0.56
5:K:371:GLN:HA	5:K:371:GLN:HE21	1.69	0.56
7:O:335:ASP:OD1	7:O:857:GLY:HA3	2.05	0.56
7:O:984:THR:C	7:O:988:SER:HB2	2.29	0.56
7:O:1385:PHE:HE1	7:O:1426:VAL:CG2	2.12	0.56
8:P:267:ILE:CG2	8:P:271:LEU:CD1	2.79	0.56
9:T:690:ARG:HG3	9:T:718:LEU:HD22	1.87	0.56
11:X:274:PHE:CB	11:X:355:TRP:CD2	2.80	0.56
1:7:76:UNK:HA	9:R:429:THR:HB	1.86	0.56
1:8:76:UNK:HA	9:T:429:THR:HB	1.86	0.56
1:j:443:UNK:HA	8:P:529:LEU:HD11	1.85	0.56
2:Y:517:LEU:HB2	2:Y:537:LYS:HZ2	1.69	0.56
5:K:380:LEU:HD21	6:L:314:TYR:CZ	2.40	0.56
1:7:76:UNK:C	9:R:429:THR:HG22	2.36	0.56
8:N:221:VAL:O	8:N:225:ARG:HG3	2.05	0.56
11:V:274:PHE:CB	11:V:355:TRP:CD2	2.81	0.56
4:J:778:LYS:H	5:K:473:ILE:HD12	1.69	0.56
9:S:584:LYS:CE	9:S:636:ARG:HD2	2.34	0.56
1:g:238:UNK:N	7:O:123:CYS:HB2	2.21	0.56
4:D:778:LYS:H	5:E:473:ILE:HD12	1.69	0.56
5:E:380:LEU:HD21	6:F:314:TYR:CZ	2.40	0.56
7:M:1392:ILE:HD12	7:M:1392:ILE:H	1.69	0.56
10:U:261:THR:C	10:U:263:ALA:H	2.14	0.56
7:O:1392:ILE:HD12	7:O:1392:ILE:H	1.69	0.56
9:S:680:ASN:CG	10:W:321:GLU:HB3	2.30	0.56
1:m:365:UNK:CB	2:0:1286:ASP:HA	2.35	0.56
8:N:270:ILE:O	8:N:275:LEU:HB2	2.05	0.56
3:1:1191:LEU:HD11	3:1:1213:LEU:HB2	1.86	0.56
4:G:796:ILE:CG2	9:S:20:LYS:CB	2.83	0.56
8:P:270:ILE:O	8:P:275:LEU:HB2	2.06	0.56
10:W:261:THR:C	10:W:263:ALA:H	2.14	0.56
1:8:76:UNK:C	9:T:429:THR:HG22	2.36	0.56
3:Z:789:ASP:OD2	2:0:1358:GLU:HA	2.06	0.56
7:M:1384:LEU:HD13	7:M:1412:TYR:CG	2.41	0.56
9:Q:680:ASN:CG	10:U:321:GLU:HB3	2.30	0.56
11:V:275:GLY:O	11:V:354:SER:CA	2.53	0.56
5:K:320:GLU:OE2	5:K:320:GLU:HA	2.06	0.56
11:X:275:GLY:O	11:X:354:SER:CA	2.53	0.56
1:j:436:UNK:HA	8:P:527:LYS:NZ	2.20	0.55
7:M:1386:LYS:HZ3	8:N:683:ASP:CG	2.13	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Q:588:VAL:O	9:Q:603:VAL:CG1	2.54	0.55
3:1:1183:ILE:CG2	3:1:1184:ASP:H	2.19	0.55
6:L:456:ARG:HE	9:T:61:LYS:CB	2.18	0.55
1:8:72:UNK:CB	9:T:426:PRO:CG	2.84	0.55
1:j:450:UNK:CB	8:P:532:LYS:CD	2.83	0.55
3:Z:1213:LEU:HD12	3:Z:1213:LEU:C	2.30	0.55
6:F:456:ARG:HE	9:R:61:LYS:CB	2.18	0.55
7:O:1386:LYS:HZ3	8:P:683:ASP:CG	2.13	0.55
8:P:761:PHE:CE1	8:P:764:LYS:CD	2.58	0.55
8:N:277:THR:HG23	8:N:381:VAL:HG21	1.88	0.55
8:N:327:PHE:HA	8:N:389:PHE:HE2	1.71	0.55
9:R:672:GLN:CB	9:R:673:PRO:CD	2.73	0.55
3:1:1215:TYR:CB	3:1:1218:ILE:CG2	2.84	0.55
5:K:317:ASN:CB	5:K:348:ILE:HD11	2.35	0.55
7:O:1189:MET:HE1	8:P:252:TYR:HB2	1.80	0.55
7:O:1392:ILE:HG12	7:O:1437:LEU:CB	2.37	0.55
8:P:277:THR:HG23	8:P:381:VAL:HG21	1.88	0.55
11:X:289:SER:C	11:X:294:ILE:CD1	2.80	0.55
1:g:265:UNK:CB	7:O:976:ALA:CB	2.84	0.55
7:M:1189:MET:HE1	8:N:252:TYR:HB2	1.80	0.55
7:M:1392:ILE:HG12	7:M:1437:LEU:CB	2.37	0.55
8:N:227:ILE:CD1	8:N:258:ILE:HG21	2.28	0.55
8:N:761:PHE:CE1	8:N:764:LYS:CD	2.58	0.55
7:O:1384:LEU:HD13	7:O:1412:TYR:CG	2.42	0.55
9:T:672:GLN:CB	9:T:673:PRO:CD	2.73	0.55
1:7:72:UNK:CB	9:R:426:PRO:HG3	2.37	0.55
3:Z:1213:LEU:CD1	3:Z:1215:TYR:H	2.20	0.55
6:C:371:LYS:HD2	6:C:371:LYS:H	1.70	0.55
7:M:1389:ILE:O	7:M:1393:ASN:HB2	2.07	0.55
2:0:163:GLU:HB3	2:0:186:ILE:HG21	1.87	0.55
9:T:518:ILE:HD11	9:T:535:ALA:HB2	1.89	0.55
11:X:355:TRP:HE1	11:X:400:ILE:C	2.15	0.55
1:g:256:UNK:CB	7:O:181:PHE:CZ	2.87	0.55
9:R:518:ILE:HD11	9:R:535:ALA:HB2	1.89	0.55
1:n:350:UNK:N	2:Y:1305:SER:HB2	2.18	0.55
2:Y:163:GLU:HB3	2:Y:186:ILE:HG21	1.87	0.55
3:Z:493:ILE:HD12	3:Z:511:VAL:HG12	1.87	0.55
11:V:355:TRP:HE1	11:V:400:ILE:C	2.15	0.55
9:S:599:ARG:NH2	9:S:605:GLU:OE1	2.40	0.55
9:T:301:ASN:HB3	9:T:345:LEU:HD13	1.87	0.55
1:h:316:UNK:CB	5:K:463:LEU:CD1	2.85	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:U:268:LEU:CB	10:U:283:ILE:CD1	2.80	0.55
11:V:355:TRP:CZ2	11:V:401:ASP:N	2.75	0.55
7:O:1389:ILE:O	7:O:1393:ASN:HB2	2.07	0.55
7:O:1500:ASN:HD21	7:O:1551:SER:HB2	1.70	0.55
5:E:314:ASN:HD22	5:E:350:ILE:CG1	2.19	0.55
9:R:301:ASN:HB3	9:R:345:LEU:HD13	1.87	0.55
7:O:1189:MET:HE1	8:P:252:TYR:CG	2.40	0.55
8:P:55:LEU:CD1	8:P:109:ARG:HE	2.19	0.55
10:W:252:ALA:HB3	10:W:345:TYR:CE1	2.42	0.55
7:M:1500:ASN:HD21	7:M:1551:SER:HB2	1.70	0.55
8:N:55:LEU:CD1	8:N:109:ARG:HE	2.19	0.55
10:U:252:ALA:HB3	10:U:345:TYR:CE1	2.42	0.55
3:1:928:LEU:HD11	3:1:957:LEU:HD23	1.89	0.55
9:T:35:ALA:O	9:T:39:LEU:N	2.35	0.55
1:l:291:UNK:CB	5:K:373:ARG:NH1	2.70	0.54
3:Z:1199:VAL:O	3:Z:1200:LEU:CD2	2.49	0.54
5:B:323:LEU:HD21	5:B:338:ALA:O	2.01	0.54
4:D:765:LEU:HD23	5:E:460:TRP:CE2	2.42	0.54
7:M:1189:MET:HE1	8:N:252:TYR:CG	2.40	0.54
7:M:1392:ILE:CG2	7:M:1436:LYS:C	2.79	0.54
4:J:765:LEU:HD23	5:K:460:TRP:CE2	2.42	0.54
9:T:472:SER:C	9:T:473:ARG:HG2	2.31	0.54
3:Z:928:LEU:HD11	3:Z:957:LEU:HD23	1.89	0.54
4:D:636:THR:O	4:D:637:LEU:CD2	2.53	0.54
8:N:274:GLY:O	8:N:284:ILE:CB	2.55	0.54
9:Q:601:PRO:HB3	9:Q:605:GLU:OE1	2.07	0.54
3:1:1169:ILE:HG22	3:1:1218:ILE:HD11	1.89	0.54
8:P:288:LEU:CD1	8:P:328:ILE:HG22	2.30	0.54
8:N:249:ASP:OD1	8:N:835:LEU:CD2	2.55	0.54
9:R:472:SER:C	9:R:473:ARG:HG2	2.32	0.54
7:O:1392:ILE:CG2	7:O:1436:LYS:C	2.80	0.54
8:P:274:GLY:O	8:P:284:ILE:CB	2.55	0.54
1:e:445:UNK:CB	8:N:427:ILE:HG12	2.37	0.54
1:j:443:UNK:N	8:P:529:LEU:CD1	2.67	0.54
3:Z:787:ALA:N	2:0:1358:GLU:HB2	2.20	0.54
8:N:613:GLU:HB3	8:N:617:TYR:CE2	2.42	0.54
11:V:355:TRP:CE2	11:V:401:ASP:O	2.60	0.54
3:1:1191:LEU:HD12	3:1:1213:LEU:CD2	2.09	0.54
9:T:429:THR:HG23	9:T:434:ASP:CG	2.33	0.54
11:X:289:SER:HB2	11:X:300:VAL:HG21	1.90	0.54
11:X:355:TRP:CE2	11:X:401:ASP:O	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:258:UNK:O	1:g:262:UNK:N	2.41	0.54
5:E:457:ASN:HA	5:E:460:TRP:HD1	1.72	0.54
7:M:1376:THR:HG21	7:M:1415:ARG:HH21	1.72	0.54
8:N:288:LEU:CD1	8:N:328:ILE:HG22	2.30	0.54
9:Q:595:ARG:HD2	10:U:329:GLN:HE21	1.72	0.54
3:1:1198:ARG:HG3	3:1:1199:VAL:N	2.22	0.54
8:P:613:GLU:HB3	8:P:617:TYR:CE2	2.42	0.54
9:S:593:ILE:HG21	9:S:599:ARG:CA	2.37	0.54
11:X:355:TRP:CZ2	11:X:401:ASP:N	2.76	0.54
1:k:288:UNK:HA	5:E:367:GLU:HA	1.90	0.54
3:Z:1173:LEU:HD11	3:Z:1195:LEU:HD22	1.89	0.54
5:B:317:ASN:HD22	5:B:346:GLN:HB3	1.73	0.54
5:K:371:GLN:HE21	5:K:371:GLN:CA	2.18	0.54
11:X:274:PHE:C	11:X:274:PHE:CD1	2.85	0.54
5:E:316:VAL:O	5:E:348:ILE:CD1	2.56	0.54
9:R:429:THR:HG23	9:R:434:ASP:CG	2.33	0.54
11:V:274:PHE:C	11:V:274:PHE:CD1	2.85	0.54
2:0:989:GLN:HG2	2:0:1001:ILE:HD11	1.89	0.54
9:S:584:LYS:CE	9:S:636:ARG:CD	2.85	0.54
1:8:77:UNK:CB	9:T:435:TRP:NE1	2.71	0.54
2:Y:989:GLN:HG2	2:Y:1001:ILE:HD11	1.89	0.54
7:M:1189:MET:HG2	8:N:248:GLN:CA	2.31	0.54
8:N:55:LEU:HD21	8:N:109:ARG:NH2	2.19	0.54
2:0:135:PHE:CE2	2:0:515:VAL:HG21	2.43	0.54
5:K:457:ASN:HA	5:K:460:TRP:HD1	1.72	0.54
8:P:68:HIS:O	8:P:69:ASN:HB2	2.07	0.54
8:P:613:GLU:OE1	8:P:617:TYR:CD1	2.58	0.54
1:7:74:UNK:HA	9:R:473:ARG:HG3	1.90	0.54
1:c:316:UNK:O	5:E:463:LEU:HD12	2.08	0.54
7:M:334:GLN:HA	7:M:334:GLN:NE2	2.22	0.54
11:V:355:TRP:HZ2	11:V:401:ASP:CA	2.21	0.54
3:1:494:ASN:O	3:1:512:ARG:N	2.38	0.54
6:I:342:GLU:HB3	6:I:372:PHE:HE1	1.73	0.54
1:7:77:UNK:CB	9:R:435:TRP:NE1	2.71	0.54
7:M:984:THR:O	7:M:988:SER:CB	2.55	0.54
8:N:613:GLU:OE1	8:N:617:TYR:CD1	2.58	0.54
11:V:293:HIS:C	11:V:361:ASN:HD21	2.14	0.54
2:0:1019:ARG:NH1	9:T:245:ALA:HA	2.17	0.54
7:O:1392:ILE:CD1	7:O:1437:LEU:CD1	2.79	0.54
9:Q:588:VAL:CG1	9:Q:603:VAL:HG11	2.38	0.53
7:O:334:GLN:HA	7:O:334:GLN:NE2	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:1189:MET:HG2	8:P:248:GLN:CA	2.31	0.53
10:W:252:ALA:HB3	10:W:345:TYR:CZ	2.44	0.53
10:W:262:ILE:HG13	10:W:336:ASN:CB	2.36	0.53
1:n:350:UNK:HA	2:Y:1305:SER:HB2	1.88	0.53
3:Z:140:ARG:HH22	3:Z:144:THR:H	1.56	0.53
3:Z:1234:ILE:HD13	3:Z:1282:VAL:HA	1.90	0.53
7:M:1392:ILE:CD1	7:M:1437:LEU:CD1	2.79	0.53
10:U:252:ALA:HB3	10:U:345:TYR:CZ	2.44	0.53
2:0:516:LEU:CB	2:0:537:LYS:HD3	2.39	0.53
3:1:1234:ILE:HD13	3:1:1282:VAL:HA	1.90	0.53
8:P:55:LEU:HD21	8:P:109:ARG:NH2	2.19	0.53
6:C:371:LYS:H	6:C:371:LYS:CD	2.20	0.53
5:K:353:TYR:H	5:K:361:ARG:HH22	1.57	0.53
1:8:76:UNK:C	9:T:429:THR:HG21	2.38	0.53
2:Y:1019:ARG:NH1	9:R:245:ALA:HA	2.17	0.53
5:E:353:TYR:H	5:E:361:ARG:HH22	1.57	0.53
5:E:380:LEU:HD21	6:F:314:TYR:OH	2.07	0.53
3:1:140:ARG:HH22	3:1:144:THR:H	1.56	0.53
9:S:582:GLU:HA	11:X:302:ARG:NH1	2.23	0.53
11:X:273:VAL:CG1	11:X:356:VAL:HG23	2.15	0.53
1:7:76:UNK:C	9:R:429:THR:HG21	2.38	0.53
1:l:284:UNK:CB	6:I:358:LEU:CB	2.73	0.53
8:N:341:PHE:C	8:N:341:PHE:CD1	2.86	0.53
3:1:163:MET:HG3	3:1:568:LYS:HG3	1.90	0.53
5:K:317:ASN:HB2	5:K:348:ILE:HD11	1.90	0.53
5:K:380:LEU:HD21	6:L:314:TYR:OH	2.07	0.53
7:O:1378:ASP:O	7:O:1381:LEU:N	2.41	0.53
9:S:601:PRO:HB2	9:S:606:GLU:HG3	1.90	0.53
11:X:297:ASP:HB2	11:X:300:VAL:HG13	1.89	0.53
1:7:72:UNK:CA	9:R:426:PRO:CB	2.77	0.53
2:Y:112:GLN:HE22	2:Y:785:TRP:CD1	2.27	0.53
7:M:1071:ALA:HB3	7:M:1072:PRO:HD3	1.91	0.53
11:V:273:VAL:CG1	11:V:356:VAL:HG23	2.15	0.53
8:P:341:PHE:CD1	8:P:341:PHE:C	2.86	0.53
11:X:355:TRP:HZ2	11:X:401:ASP:CA	2.21	0.53
7:M:1378:ASP:O	7:M:1381:LEU:N	2.41	0.53
8:N:71:LEU:HD12	8:N:71:LEU:C	2.33	0.53
8:N:1497:ASN:HB3	9:Q:145:THR:O	2.08	0.53
2:0:135:PHE:HE2	2:0:515:VAL:HG21	1.72	0.53
3:1:1177:VAL:HG22	3:1:1215:TYR:OH	2.09	0.53
8:N:215:GLN:C	8:N:220:PHE:HE1	2.15	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Q:594:GLY:HA2	10:U:324:LYS:CE	2.21	0.53
2:0:112:GLN:HE22	2:0:785:TRP:CD1	2.27	0.53
7:O:1071:ALA:HB3	7:O:1072:PRO:HD3	1.91	0.53
7:O:1185:ILE:HD12	7:O:1327:PHE:CD1	2.44	0.53
8:P:1497:ASN:HB3	9:S:145:THR:O	2.08	0.53
9:S:594:GLY:HA2	10:W:324:LYS:CE	2.21	0.53
3:Z:1174:LEU:HD13	3:Z:1195:LEU:HB2	1.91	0.53
5:E:457:ASN:HA	5:E:460:TRP:CD1	2.44	0.53
7:M:1185:ILE:HD12	7:M:1327:PHE:CD1	2.44	0.53
9:Q:597:GLY:O	9:Q:598:ALA:HB3	2.07	0.53
9:R:432:ILE:HD11	9:R:477:TYR:CB	2.36	0.53
7:O:535:PHE:HA	7:O:622:GLN:HE22	1.73	0.53
2:Y:517:LEU:HB2	2:Y:537:LYS:NZ	2.24	0.53
3:Z:163:MET:HG3	3:Z:568:LYS:HG3	1.91	0.53
3:Z:917:GLU:CG	3:Z:918:MET:N	2.63	0.53
5:B:307:LYS:HA	5:B:331:LEU:HD22	1.91	0.53
7:M:535:PHE:HA	7:M:622:GLN:HE22	1.73	0.53
7:M:1189:MET:N	8:N:248:GLN:NE2	2.57	0.53
3:1:1215:TYR:HB2	3:1:1218:ILE:HG22	1.88	0.53
9:Q:72:LEU:CB	9:T:73:LEU:CB	2.87	0.52
3:1:1215:TYR:O	3:1:1218:ILE:CG2	2.54	0.52
5:H:307:LYS:HA	5:H:331:LEU:HD22	1.91	0.52
7:O:1189:MET:N	8:P:248:GLN:NE2	2.57	0.52
8:P:825:ILE:HD11	8:P:880:ASN:HD22	1.74	0.52
9:T:432:ILE:HD11	9:T:477:TYR:CB	2.37	0.52
5:B:413:LEU:HA	6:C:373:PHE:HE1	1.72	0.52
7:M:1490:ARG:HH12	9:R:825:PRO:CA	2.22	0.52
8:N:288:LEU:CD1	8:N:328:ILE:HG23	2.29	0.52
8:N:825:ILE:HD11	8:N:880:ASN:HD22	1.74	0.52
9:Q:594:GLY:N	10:U:324:LYS:HE2	2.19	0.52
11:V:273:VAL:HG11	11:V:356:VAL:HG21	1.89	0.52
5:K:457:ASN:HA	5:K:460:TRP:CD1	2.45	0.52
1:j:442:UNK:CB	8:P:529:LEU:CD2	2.59	0.52
8:N:275:LEU:HD11	8:N:382:PHE:HB2	0.81	0.52
8:N:309:ASN:C	8:N:311:VAL:H	2.15	0.52
7:O:1382:TYR:CZ	8:P:744:LEU:HD21	2.42	0.52
3:Z:186:ASN:ND2	3:Z:242:HIS:CD2	2.77	0.52
6:C:371:LYS:N	6:C:371:LYS:CD	2.73	0.52
10:U:266:ILE:HD11	10:U:336:ASN:HB2	1.92	0.52
7:O:1490:ARG:HH12	9:T:825:PRO:CA	2.23	0.52
9:S:594:GLY:N	10:W:324:LYS:HE2	2.19	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:365:UNK:CB	2:Y:1286:ASP:CA	2.88	0.52
4:D:806:SER:HB3	9:R:36:SER:CA	2.40	0.52
10:U:267:ILE:O	10:U:283:ILE:HD13	2.09	0.52
11:V:274:PHE:CE2	11:V:384:CYS:HA	2.45	0.52
5:K:456:THR:HB	5:K:460:TRP:HE1	1.75	0.52
8:P:288:LEU:CD1	8:P:328:ILE:HG23	2.29	0.52
11:X:274:PHE:CE2	11:X:384:CYS:HA	2.45	0.52
5:E:456:THR:HB	5:E:460:TRP:HE1	1.75	0.52
8:P:309:ASN:C	8:P:311:VAL:H	2.16	0.52
3:Z:1191:LEU:HD13	3:Z:1213:LEU:HD22	1.91	0.52
3:1:186:ASN:ND2	3:1:242:HIS:CD2	2.77	0.52
6:L:371:LYS:N	6:L:371:LYS:CD	2.73	0.52
7:O:380:ALA:O	7:O:382:ASP:N	2.35	0.52
7:O:991:THR:H	7:O:995:VAL:HG11	1.75	0.52
7:O:1671:VAL:HB	9:T:162:LEU:O	2.10	0.52
5:E:364:VAL:HA	5:E:367:GLU:OE2	2.10	0.52
7:M:380:ALA:O	7:M:382:ASP:N	2.35	0.52
3:Z:1177:VAL:HG11	3:Z:1195:LEU:CD1	2.39	0.52
3:Z:1177:VAL:HG23	3:Z:1215:TYR:OH	2.10	0.52
7:O:1189:MET:CG	7:O:1190:TYR:CD1	2.86	0.52
7:O:1376:THR:OG1	7:O:1415:ARG:NH2	2.43	0.52
8:P:1422:LEU:HB3	8:P:1468:VAL:HG11	1.90	0.52
11:X:273:VAL:O	11:X:355:TRP:HE3	1.91	0.52
1:k:287:UNK:O	5:E:367:GLU:HB3	2.10	0.52
2:Y:1465:ILE:HG12	2:Y:1487:TYR:CD2	2.45	0.52
8:N:741:LYS:C	8:N:744:LEU:HG	2.32	0.52
5:K:325:THR:C	5:K:326:LYS:HG2	2.34	0.52
7:O:1191:SER:OG	8:P:757:LYS:HB3	2.09	0.52
8:P:275:LEU:HD11	8:P:382:PHE:HB2	0.81	0.52
1:m:365:UNK:CB	2:0:1286:ASP:CA	2.88	0.51
1:j:442:UNK:C	8:P:529:LEU:CD2	2.88	0.51
7:M:341:PHE:CE1	7:M:652:ALA:HB2	2.44	0.51
7:M:1191:SER:OG	8:N:757:LYS:HB3	2.09	0.51
8:N:1422:LEU:HB3	8:N:1468:VAL:HG11	1.90	0.51
11:V:273:VAL:O	11:V:355:TRP:HE3	1.91	0.51
2:0:1465:ILE:HG12	2:0:1487:TYR:CD2	2.45	0.51
3:1:493:ILE:HD13	3:1:513:LYS:HD3	1.85	0.51
1:m:349:UNK:C	2:0:1305:SER:HB2	2.38	0.51
1:h:325:UNK:CB	7:O:800:ILE:HG12	2.40	0.51
5:E:373:ARG:HH22	6:F:304:LEU:HD22	1.75	0.51
7:M:1189:MET:CG	7:M:1190:TYR:CD1	2.86	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:M:1329:LEU:HD21	7:M:1380:ARG:NH2	2.24	0.51
10:U:322:LEU:HD12	10:U:325:SER:OG	2.10	0.51
5:K:318:GLU:OE2	5:K:345:PRO:HB2	2.09	0.51
5:K:373:ARG:HH22	6:L:304:LEU:HD22	1.75	0.51
9:S:589:LEU:HA	9:S:603:VAL:HG22	1.91	0.51
11:X:294:ILE:CG2	11:X:361:ASN:HD21	2.24	0.51
4:A:803:ALA:CA	9:Q:31:ASN:CB	2.89	0.51
5:B:312:VAL:HG21	5:B:361:ARG:HH21	1.74	0.51
8:N:212:TRP:HE1	8:N:269:THR:CG2	2.23	0.51
8:P:212:TRP:HE1	8:P:269:THR:CG2	2.23	0.51
10:W:276:ILE:H	10:W:283:ILE:CD1	2.19	0.51
10:W:322:LEU:HD12	10:W:325:SER:OG	2.11	0.51
9:R:339:TYR:HA	9:R:342:ARG:HD3	1.93	0.51
11:V:270:ALA:CB	11:V:357:LYS:HG3	2.38	0.51
4:G:810:ASN:CG	9:S:35:ALA:HB2	2.36	0.51
6:I:376:LYS:NZ	6:I:376:LYS:CB	2.73	0.51
7:O:341:PHE:CE1	7:O:652:ALA:HB2	2.45	0.51
9:T:339:TYR:HA	9:T:342:ARG:HD3	1.93	0.51
3:Z:912:ALA:O	3:Z:916:PHE:CD2	2.63	0.51
8:N:1259:PHE:CZ	9:Q:133:ILE:CB	2.93	0.51
3:1:912:ALA:O	3:1:916:PHE:CD2	2.63	0.51
5:H:312:VAL:HG21	5:H:361:ARG:HH21	1.74	0.51
8:P:267:ILE:HG22	8:P:271:LEU:HD11	1.83	0.51
7:M:1585:PRO:CA	7:M:1659:ASN:HD21	2.16	0.51
11:V:274:PHE:CA	11:V:354:SER:O	2.59	0.51
3:1:1210:ALA:CB	3:1:1218:ILE:CG2	2.89	0.51
4:J:707:LEU:HD11	5:K:408:ILE:HD13	1.92	0.51
8:P:1259:PHE:CZ	9:S:133:ILE:CB	2.93	0.51
11:X:273:VAL:HG11	11:X:356:VAL:HG21	1.89	0.51
2:Y:1019:ARG:HD2	9:R:245:ALA:CA	2.38	0.51
7:M:384:MET:HE1	7:M:760:ILE:CG2	2.17	0.51
11:X:270:ALA:CB	11:X:357:LYS:HG3	2.38	0.51
5:B:323:LEU:CA	5:B:349:PRO:HD2	2.40	0.51
3:1:493:ILE:HG21	3:1:513:LYS:HA	1.93	0.51
3:1:728:VAL:HG11	3:1:812:ILE:HD11	1.93	0.51
1:4:5:UNK:CB	5:K:315:LYS:HB3	2.40	0.51
1:i:397:UNK:HA	8:P:423:LYS:NZ	2.25	0.51
4:D:707:LEU:HD11	5:E:408:ILE:HD13	1.93	0.51
8:N:267:ILE:HG22	8:N:271:LEU:HD11	1.83	0.51
8:N:310:ILE:O	8:N:310:ILE:HG22	2.09	0.51
2:0:516:LEU:CA	2:0:537:LYS:HZ2	2.16	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1:1199:VAL:C	3:1:1200:LEU:HG	2.36	0.51
11:X:274:PHE:CA	11:X:354:SER:O	2.59	0.51
1:i:397:UNK:HA	8:P:423:LYS:CE	2.41	0.51
3:Z:728:VAL:HG11	3:Z:812:ILE:HD11	1.93	0.51
4:D:793:LEU:HB2	6:F:439:ILE:HG21	1.93	0.51
5:E:316:VAL:HG13	5:E:348:ILE:CD1	2.40	0.51
4:J:793:LEU:HB2	6:L:439:ILE:HG21	1.93	0.51
7:O:1191:SER:OG	8:P:757:LYS:CB	2.58	0.51
8:P:310:ILE:O	8:P:310:ILE:HG22	2.10	0.51
9:S:504:VAL:HG13	9:S:538:LEU:HD23	1.93	0.51
9:Q:504:VAL:HG13	9:Q:538:LEU:HD23	1.93	0.50
2:0:1019:ARG:HD2	9:T:245:ALA:CA	2.38	0.50
7:O:1585:PRO:CA	7:O:1659:ASN:HD21	2.16	0.50
1:j:442:UNK:C	8:P:529:LEU:HD11	2.38	0.50
7:M:1389:ILE:HG23	8:N:687:LYS:CG	2.26	0.50
10:W:276:ILE:N	10:W:283:ILE:CD1	2.69	0.50
1:4:5:UNK:HA	5:K:315:LYS:CD	2.39	0.50
2:Y:517:LEU:CB	2:Y:537:LYS:HZ2	2.24	0.50
9:Q:601:PRO:HA	9:Q:605:GLU:OE1	2.11	0.50
9:R:432:ILE:HD11	9:R:477:TYR:CD2	2.41	0.50
7:O:1189:MET:HB3	8:P:248:GLN:CD	2.35	0.50
8:P:68:HIS:HB2	8:P:72:ARG:HB2	1.93	0.50
9:T:429:THR:CG2	9:T:434:ASP:HB3	2.31	0.50
7:M:1429:ASP:OD2	8:N:686:GLY:HA3	2.12	0.50
9:Q:595:ARG:O	9:Q:595:ARG:HG2	2.11	0.50
7:O:990:ILE:HG13	7:O:995:VAL:HG11	1.85	0.50
8:P:149:ILE:HG23	8:P:223:PHE:HD1	1.74	0.50
7:M:1189:MET:HB3	8:N:248:GLN:CD	2.35	0.50
7:M:1191:SER:OG	8:N:757:LYS:CB	2.58	0.50
9:R:33:PRO:O	9:R:36:SER:CB	2.60	0.50
6:I:376:LYS:HB2	6:I:376:LYS:HZ2	1.77	0.50
7:O:1361:PHE:CZ	7:O:1412:TYR:CD1	3.00	0.50
2:Y:516:LEU:N	2:Y:516:LEU:CD1	2.73	0.50
3:Z:1213:LEU:HD22	3:Z:1215:TYR:HE2	1.48	0.50
7:M:1389:ILE:HG13	8:N:686:GLY:C	2.30	0.50
7:M:1361:PHE:CZ	7:M:1412:TYR:CD1	3.00	0.50
9:Q:602:GLY:HA2	9:Q:606:GLU:OE2	2.12	0.50
9:Q:603:VAL:HG23	9:Q:604:ILE:N	2.26	0.50
11:V:274:PHE:CD2	11:V:355:TRP:CZ3	2.89	0.50
9:T:432:ILE:HD11	9:T:477:TYR:CD2	2.41	0.50
11:X:274:PHE:CD2	11:X:355:TRP:CZ3	2.88	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:429:THR:CG2	9:R:434:ASP:HB3	2.31	0.50
3:1:1183:ILE:CG2	3:1:1184:ASP:N	2.73	0.50
1:b:241:UNK:CB	7:M:426:GLN:HE21	2.18	0.50
1:m:353:UNK:C	2:0:1309:ASN:CB	2.90	0.50
3:Z:1210:ALA:CA	3:Z:1218:ILE:HD11	2.42	0.50
4:D:765:LEU:CD2	5:E:460:TRP:CE2	2.95	0.50
8:N:309:ASN:C	8:N:311:VAL:N	2.70	0.50
9:R:472:SER:O	9:R:473:ARG:CG	2.60	0.50
4:J:765:LEU:CD2	5:K:460:TRP:CE2	2.95	0.50
7:O:384:MET:HE1	7:O:760:ILE:CG2	2.17	0.50
9:T:472:SER:O	9:T:473:ARG:CG	2.60	0.50
1:c:313:UNK:C	1:c:317:UNK:N	2.69	0.49
2:Y:1360:SER:HA	2:Y:1402:LEU:HD22	1.93	0.49
3:Z:1172:ASP:OD1	9:Q:754:ARG:HG2	2.11	0.49
8:N:309:ASN:OD1	8:N:315:PRO:HB3	2.12	0.49
2:0:1360:SER:HA	2:0:1402:LEU:HD22	1.93	0.49
8:P:309:ASN:C	8:P:311:VAL:N	2.70	0.49
8:P:556:LEU:HG	8:P:556:LEU:O	2.11	0.49
11:X:273:VAL:HA	11:X:384:CYS:CB	2.42	0.49
11:X:273:VAL:HA	11:X:384:CYS:HB2	1.94	0.49
5:B:323:LEU:HG	5:B:349:PRO:CG	2.37	0.49
7:M:1372:THR:OG1	8:N:811:ASP:HB3	2.12	0.49
8:N:309:ASN:ND2	8:N:352:PHE:HE1	2.10	0.49
8:N:309:ASN:ND2	8:N:352:PHE:CE1	2.81	0.49
11:V:273:VAL:HA	11:V:384:CYS:CB	2.42	0.49
11:V:273:VAL:HA	11:V:384:CYS:HB2	1.94	0.49
2:0:1310:ASP:OD1	2:0:1311:PHE:N	2.46	0.49
3:1:1172:ASP:OD1	9:S:754:ARG:HG2	2.11	0.49
7:O:1382:TYR:CE1	8:P:744:LEU:HD21	2.48	0.49
7:O:1389:ILE:HG13	8:P:686:GLY:C	2.30	0.49
8:P:309:ASN:ND2	8:P:352:PHE:CE1	2.81	0.49
8:P:309:ASN:OD1	8:P:315:PRO:HB3	2.13	0.49
1:7:72:UNK:CB	9:R:426:PRO:CD	2.90	0.49
1:m:353:UNK:C	2:0:1309:ASN:HB3	2.42	0.49
4:D:807:LEU:HD13	5:E:523:LEU:HD23	1.95	0.49
6:L:374:GLN:HE21	6:L:374:GLN:H	1.56	0.49
8:P:309:ASN:ND2	8:P:352:PHE:HE1	2.10	0.49
1:m:353:UNK:O	1:m:354:UNK:C	2.61	0.49
7:M:690:GLU:H	7:M:690:GLU:CD	2.20	0.49
1:n:353:UNK:O	1:n:354:UNK:C	2.60	0.49
5:E:322:ILE:HA	5:E:325:THR:HG23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:M:1380:ARG:CD	7:M:1380:ARG:N	2.73	0.49
4:G:810:ASN:CB	9:S:35:ALA:HB3	2.24	0.49
4:J:807:LEU:HD13	5:K:523:LEU:HD23	1.95	0.49
7:O:690:GLU:H	7:O:690:GLU:CD	2.20	0.49
7:O:1392:ILE:HG21	7:O:1437:LEU:HB2	1.93	0.49
9:S:584:LYS:HE2	9:S:639:ASP:OD2	2.12	0.49
9:T:684:ASN:OD1	9:T:685:PRO:HD2	2.12	0.49
10:W:271:ALA:CB	10:W:283:ILE:CB	2.91	0.49
1:m:350:UNK:CA	2:0:1305:SER:HA	2.42	0.49
1:j:442:UNK:O	8:P:529:LEU:HD21	2.13	0.49
1:i:397:UNK:CB	8:P:423:LYS:CE	2.88	0.49
5:B:323:LEU:CB	5:B:349:PRO:HD2	2.43	0.49
7:M:1372:THR:OG1	8:N:811:ASP:CB	2.60	0.49
7:M:1392:ILE:HG21	7:M:1437:LEU:HB2	1.93	0.49
3:1:408:LYS:HD3	3:1:497:CYS:HA	1.95	0.49
8:P:68:HIS:C	8:P:69:ASN:CG	2.80	0.49
3:Z:495:THR:HG23	3:Z:510:CYS:O	2.13	0.49
7:M:1189:MET:CB	8:N:249:ASP:CA	2.72	0.49
9:Q:601:PRO:CB	9:Q:605:GLU:OE1	2.61	0.49
3:1:1210:ALA:HB1	3:1:1218:ILE:CG2	2.41	0.49
9:R:684:ASN:OD1	9:R:685:PRO:HD2	2.12	0.49
10:U:262:ILE:CG2	10:U:262:ILE:O	2.48	0.49
10:U:322:LEU:CD1	10:U:325:SER:CB	2.90	0.49
6:L:374:GLN:HE21	6:L:374:GLN:CA	2.23	0.49
7:O:1561:LEU:O	7:O:1580:VAL:CG1	2.55	0.49
9:S:448:ALA:HB1	9:S:456:ARG:HH12	1.78	0.49
11:X:294:ILE:O	11:X:301:LEU:HD11	2.13	0.49
1:b:265:UNK:CB	7:M:976:ALA:HB2	2.42	0.49
3:Z:1213:LEU:HD13	3:Z:1215:TYR:CE2	2.46	0.49
7:M:1561:LEU:O	7:M:1580:VAL:CG1	2.55	0.49
9:Q:448:ALA:HB1	9:Q:456:ARG:HH12	1.78	0.49
7:O:1189:MET:CB	8:P:249:ASP:CA	2.72	0.49
7:O:1380:ARG:HD3	7:O:1415:ARG:HE	1.77	0.49
10:W:280:PHE:CD1	10:W:309:THR:HG21	2.47	0.49
10:W:322:LEU:CD1	10:W:325:SER:CB	2.91	0.49
2:Y:769:ARG:HH11	2:Y:773:ILE:CD1	2.26	0.49
7:M:1389:ILE:HD11	7:M:1429:ASP:OD2	2.13	0.49
9:R:282:PHE:CE1	9:R:342:ARG:NH2	2.80	0.49
9:R:676:GLY:N	9:R:677:PRO:HD2	2.27	0.49
2:0:769:ARG:HH11	2:0:773:ILE:CD1	2.26	0.49
11:X:297:ASP:OD2	11:X:301:LEU:CG	2.56	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:M:1189:MET:SD	7:M:1190:TYR:CD1	3.06	0.48
7:O:1189:MET:SD	7:O:1190:TYR:CD1	3.06	0.48
9:T:282:PHE:CE1	9:T:342:ARG:NH2	2.80	0.48
11:X:386:PRO:O	11:X:387:TYR:CG	2.66	0.48
3:Z:1191:LEU:HD22	3:Z:1213:LEU:HD22	1.88	0.48
6:C:369:LEU:N	6:C:369:LEU:CD2	2.74	0.48
5:E:315:LYS:O	5:E:315:LYS:HG2	2.13	0.48
9:R:338:PHE:O	9:R:342:ARG:HG3	2.13	0.48
11:V:401:ASP:N	11:V:401:ASP:OD1	2.46	0.48
6:I:342:GLU:HB3	6:I:372:PHE:CE1	2.49	0.48
5:K:322:ILE:C	5:K:322:ILE:CD1	2.87	0.48
5:K:325:THR:O	5:K:326:LYS:HD3	2.13	0.48
7:O:335:ASP:HA	7:O:771:ARG:NE	2.28	0.48
7:O:1374:LYS:CE	7:O:1418:SER:O	2.44	0.48
9:T:338:PHE:O	9:T:342:ARG:HG3	2.13	0.48
2:Y:761:LEU:HD21	2:Y:885:ALA:HB1	1.95	0.48
7:M:1585:PRO:HB3	7:M:1658:PRO:HG2	1.95	0.48
11:V:273:VAL:CG2	11:V:356:VAL:C	2.84	0.48
5:K:436:MET:SD	6:L:370:ASP:CB	3.00	0.48
6:L:374:GLN:O	6:L:377:ILE:HB	2.13	0.48
7:O:990:ILE:HA	7:O:995:VAL:HG11	1.95	0.48
7:O:1585:PRO:HB3	7:O:1658:PRO:HG2	1.95	0.48
9:T:676:GLY:N	9:T:677:PRO:HD2	2.27	0.48
11:X:401:ASP:N	11:X:401:ASP:OD1	2.46	0.48
1:3:2:UNK:N	5:E:316:VAL:CA	2.75	0.48
7:M:335:ASP:OD1	7:M:857:GLY:N	2.46	0.48
7:M:335:ASP:HA	7:M:771:ARG:NE	2.28	0.48
7:M:1585:PRO:O	7:M:1594:GLY:C	2.56	0.48
2:0:761:LEU:HD21	2:0:885:ALA:HB1	1.95	0.48
7:O:335:ASP:OD1	7:O:857:GLY:N	2.46	0.48
9:S:116:ILE:HA	9:S:120:GLU:CB	2.44	0.48
3:Z:1191:LEU:HD21	3:Z:1213:LEU:HD23	1.93	0.48
7:M:1189:MET:N	8:N:248:GLN:HG3	2.10	0.48
9:R:670:LEU:HA	9:R:674:LEU:CD2	2.43	0.48
11:V:386:PRO:O	11:V:387:TYR:CG	2.67	0.48
9:T:339:TYR:HE1	9:T:342:ARG:HH11	1.30	0.48
5:E:314:ASN:CG	5:E:348:ILE:CD1	2.86	0.48
7:M:335:ASP:OD1	7:M:856:GLU:O	2.32	0.48
7:M:1381:LEU:C	7:M:1385:PHE:CD2	2.92	0.48
7:M:1432:LEU:HD23	2:0:1425:LYS:NZ	2.28	0.48
2:0:515:VAL:HB	2:0:516:LEU:HD12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0:516:LEU:N	2:0:516:LEU:CD1	2.77	0.48
5:K:325:THR:O	5:K:326:LYS:CG	2.61	0.48
7:O:335:ASP:OD1	7:O:856:GLU:O	2.32	0.48
10:W:266:ILE:HG13	10:W:336:ASN:OD1	2.06	0.48
11:X:272:ILE:HG22	11:X:355:TRP:CZ3	2.49	0.48
11:X:294:ILE:HG22	11:X:361:ASN:HD21	1.76	0.48
4:D:655:PHE:HB2	5:E:355:PHE:CD1	2.49	0.48
8:N:327:PHE:CB	8:N:389:PHE:HE2	2.27	0.48
9:Q:603:VAL:CG2	9:Q:604:ILE:N	2.76	0.48
9:R:84:ASP:HA	9:S:73:LEU:CB	2.44	0.48
11:V:272:ILE:HG22	11:V:355:TRP:CZ3	2.49	0.48
4:J:655:PHE:HB2	5:K:355:PHE:CD1	2.49	0.48
7:O:1376:THR:CG2	7:O:1380:ARG:HB2	2.44	0.48
7:O:1585:PRO:O	7:O:1594:GLY:C	2.56	0.48
6:I:369:LEU:CA	6:I:373:PHE:HB2	2.44	0.48
6:L:353:LEU:CD1	6:L:369:LEU:CD1	2.89	0.48
7:O:380:ALA:C	7:O:382:ASP:H	2.20	0.48
9:T:433:GLU:H	9:T:433:GLU:HG3	1.40	0.48
9:T:670:LEU:HA	9:T:674:LEU:CD2	2.44	0.48
1:8:72:UNK:C	9:T:426:PRO:HB3	2.43	0.48
1:n:350:UNK:CA	2:Y:1305:SER:HB2	2.43	0.48
7:M:1561:LEU:H	7:M:1580:VAL:HB	1.71	0.48
9:S:592:LYS:O	9:S:600:ILE:HB	2.14	0.48
10:W:271:ALA:HB2	10:W:283:ILE:CG2	2.43	0.48
2:Y:1465:ILE:CG2	2:Y:1484:ILE:HA	2.43	0.48
3:Z:977:GLY:HA3	3:Z:979:GLN:HE21	1.78	0.48
8:N:226:ASN:C	8:N:229:SER:H	2.20	0.48
8:N:226:ASN:O	8:N:229:SER:HB3	2.14	0.48
8:N:273:LEU:HB3	8:N:328:ILE:HD11	1.96	0.48
9:R:500:GLU:O	9:R:504:VAL:HG23	2.14	0.48
2:0:1465:ILE:CG2	2:0:1484:ILE:HA	2.43	0.48
3:1:977:GLY:HA3	3:1:979:GLN:HE21	1.78	0.48
8:P:273:LEU:HB3	8:P:328:ILE:HD11	1.96	0.48
9:T:500:GLU:O	9:T:504:VAL:HG23	2.14	0.48
1:7:72:UNK:CB	9:R:426:PRO:HD3	2.43	0.47
2:Y:1308:PHE:CE1	2:Y:1313:VAL:HG23	2.49	0.47
7:M:380:ALA:C	7:M:382:ASP:H	2.20	0.47
8:N:225:ARG:O	8:N:228:ASN:C	2.57	0.47
9:R:339:TYR:HE1	9:R:342:ARG:HH11	1.30	0.47
10:U:322:LEU:CD1	10:U:325:SER:HB2	2.44	0.47
5:K:316:VAL:HG13	5:K:317:ASN:CG	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:72:UNK:HA	9:T:426:PRO:HB3	1.89	0.47
1:c:324:UNK:CB	7:M:800:ILE:HG12	2.44	0.47
4:A:665:TRP:HE1	5:B:369:VAL:HG11	1.78	0.47
5:B:323:LEU:CG	5:B:335:TRP:CZ3	2.97	0.47
2:0:1308:PHE:CE1	2:0:1313:VAL:HG23	2.49	0.47
4:G:665:TRP:HE1	5:H:369:VAL:HG11	1.78	0.47
7:O:1561:LEU:H	7:O:1580:VAL:HB	1.71	0.47
7:M:687:TYR:CE1	7:M:746:LYS:HE2	2.49	0.47
9:R:414:LEU:HD13	9:R:441:MET:HG3	1.95	0.47
9:R:433:GLU:H	9:R:433:GLU:HG3	1.40	0.47
7:O:1189:MET:N	8:P:248:GLN:HG3	2.11	0.47
10:W:322:LEU:CD1	10:W:325:SER:HB2	2.44	0.47
1:k:291:UNK:CB	5:E:373:ARG:NH1	2.77	0.47
7:M:1189:MET:HE3	7:M:1189:MET:HB2	1.69	0.47
8:N:744:LEU:HD12	8:N:744:LEU:C	2.40	0.47
9:Q:772:PRO:HB3	9:Q:828:THR:HG21	1.96	0.47
11:V:274:PHE:HA	11:V:354:SER:C	2.39	0.47
3:1:493:ILE:CD1	3:1:513:LYS:CD	2.81	0.47
5:K:459:LEU:HD21	6:L:395:GLU:HG2	1.96	0.47
7:O:1189:MET:HE3	7:O:1189:MET:HB2	1.69	0.47
9:S:547:TYR:O	11:X:298:PHE:CB	2.60	0.47
1:l:288:UNK:CB	5:K:370:ALA:HB3	2.43	0.47
2:Y:1358:GLU:HA	3:1:789:ASP:OD2	2.15	0.47
9:Q:681:SER:HB3	10:U:322:LEU:HD22	1.95	0.47
6:I:371:LYS:N	6:I:371:LYS:CD	2.77	0.47
8:P:289:TYR:HB3	8:P:290:MET:H	1.47	0.47
9:S:593:ILE:HG21	9:S:598:ALA:O	2.14	0.47
9:S:772:PRO:HB3	9:S:828:THR:HG21	1.96	0.47
11:X:274:PHE:HA	11:X:354:SER:C	2.39	0.47
1:h:316:UNK:C	1:h:318:UNK:N	2.70	0.47
1:n:350:UNK:CA	2:Y:1305:SER:CA	2.92	0.47
5:E:459:LEU:HD21	6:F:395:GLU:HG2	1.96	0.47
8:N:55:LEU:HD11	8:N:109:ARG:NE	2.26	0.47
9:Q:641:ILE:HG23	9:Q:653:VAL:HG13	1.95	0.47
9:R:58:SER:C	9:R:60:ASN:N	2.73	0.47
8:P:63:THR:O	8:P:82:ASN:OD1	2.32	0.47
9:S:681:SER:HB3	10:W:322:LEU:HD22	1.95	0.47
9:T:414:LEU:HD13	9:T:441:MET:HG3	1.95	0.47
11:X:275:GLY:H	11:X:354:SER:CB	2.11	0.47
4:A:809:ASP:CG	9:Q:36:SER:CB	2.88	0.47
7:M:1490:ARG:HH22	9:R:825:PRO:HA	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:N:271:LEU:HD21	8:N:378:VAL:CG2	2.44	0.47
8:N:1506:LEU:HA	8:N:1509:GLN:HE21	1.80	0.47
11:V:286:GLU:N	11:V:300:VAL:CG2	2.78	0.47
11:V:286:GLU:N	11:V:300:VAL:HG21	2.30	0.47
3:1:1183:ILE:HG21	3:1:1213:LEU:HD11	1.96	0.47
7:O:687:TYR:CE1	7:O:746:LYS:HE2	2.49	0.47
7:O:1490:ARG:HH22	9:T:825:PRO:HA	1.80	0.47
7:O:1585:PRO:HB3	7:O:1659:ASN:OD1	2.14	0.47
8:P:55:LEU:HD11	8:P:109:ARG:NE	2.26	0.47
8:P:271:LEU:HD21	8:P:378:VAL:CG2	2.44	0.47
9:T:58:SER:C	9:T:60:ASN:N	2.73	0.47
1:m:350:UNK:CB	2:0:1305:SER:CA	2.89	0.47
3:Z:407:ALA:CB	3:Z:495:THR:HB	2.44	0.47
7:M:383:ASN:HB3	7:M:767:ILE:HG12	1.97	0.47
8:N:316:ILE:HB	8:N:317:PHE:H	1.62	0.47
11:V:275:GLY:H	11:V:354:SER:CB	2.11	0.47
4:G:792:GLN:HE22	9:S:17:GLY:HA2	1.77	0.47
5:K:316:VAL:O	5:K:348:ILE:CG1	2.54	0.47
7:O:383:ASN:HB3	7:O:767:ILE:HG12	1.97	0.47
8:P:1506:LEU:HA	8:P:1509:GLN:HE21	1.80	0.47
9:S:641:ILE:HG23	9:S:653:VAL:HG13	1.95	0.47
3:Z:1213:LEU:CD1	3:Z:1215:TYR:CB	2.82	0.47
1:h:315:UNK:O	1:h:318:UNK:N	2.48	0.47
7:M:1585:PRO:HB3	7:M:1659:ASN:OD1	2.14	0.47
8:N:289:TYR:HB3	8:N:290:MET:H	1.47	0.47
7:O:1193:ARG:C	7:O:1195:PHE:H	2.21	0.47
8:P:316:ILE:HB	8:P:317:PHE:H	1.62	0.47
1:n:349:UNK:C	2:Y:1305:SER:HB2	2.44	0.46
7:M:1189:MET:O	7:M:1190:TYR:HB3	2.14	0.46
8:N:249:ASP:OD2	8:N:835:LEU:CD1	2.63	0.46
7:M:384:MET:CB	7:M:766:GLN:NE2	2.77	0.46
7:M:1193:ARG:C	7:M:1195:PHE:H	2.21	0.46
7:M:1395:PRO:CD	7:M:1396:LEU:H	2.28	0.46
8:N:56:ASN:HD22	8:N:144:ILE:CG1	2.26	0.46
7:O:1189:MET:O	7:O:1190:TYR:HB3	2.14	0.46
7:O:1385:PHE:CZ	7:O:1429:ASP:OD2	2.68	0.46
7:M:995:VAL:HG12	7:M:999:LYS:HZ3	1.80	0.46
7:M:1584:ASN:HA	7:M:1585:PRO:HD3	1.76	0.46
9:R:301:ASN:HB3	9:R:345:LEU:CD1	2.46	0.46
4:J:665:TRP:CE3	5:K:365:GLN:NE2	2.83	0.46
7:O:384:MET:CB	7:O:766:GLN:NE2	2.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:1385:PHE:CE1	7:O:1429:ASP:OD2	2.68	0.46
7:O:1395:PRO:CD	7:O:1396:LEU:H	2.28	0.46
8:P:56:ASN:HD22	8:P:144:ILE:CG1	2.26	0.46
8:P:286:SER:H	8:P:287:PRO:HD2	1.81	0.46
11:X:289:SER:C	11:X:294:ILE:HD11	2.39	0.46
1:n:354:UNK:CB	2:Y:1308:PHE:CD2	2.99	0.46
1:j:438:UNK:HA	8:P:430:ALA:HB2	1.98	0.46
4:A:806:SER:HB2	9:Q:35:ALA:HB1	1.97	0.46
5:B:331:LEU:HD23	5:B:331:LEU:H	1.79	0.46
5:E:539:ASN:H	5:E:539:ASN:ND2	2.14	0.46
7:M:335:ASP:OD1	7:M:857:GLY:CA	2.64	0.46
8:N:60:GLN:HB3	8:N:61:ASN:H	1.52	0.46
8:N:613:GLU:HG3	8:N:617:TYR:CD1	2.42	0.46
5:K:539:ASN:H	5:K:539:ASN:ND2	2.14	0.46
7:M:335:ASP:OD2	7:M:774:ARG:HD3	2.16	0.46
8:N:274:GLY:HA2	8:N:284:ILE:C	2.40	0.46
3:1:1170:GLN:CD	3:1:1205:LEU:HD22	2.41	0.46
3:1:1213:LEU:HD23	3:1:1215:TYR:CE1	2.50	0.46
5:H:331:LEU:HD23	5:H:331:LEU:H	1.79	0.46
5:K:322:ILE:CD1	5:K:323:LEU:HG	2.43	0.46
8:P:613:GLU:HG3	8:P:617:TYR:CD1	2.42	0.46
9:S:603:VAL:HG23	9:S:604:ILE:N	2.31	0.46
9:T:301:ASN:HB3	9:T:345:LEU:CD1	2.46	0.46
1:j:439:UNK:CB	8:P:527:LYS:CD	2.87	0.46
3:Z:1174:LEU:O	3:Z:1177:VAL:HG13	2.12	0.46
9:R:678:ASP:HA	9:R:687:LEU:HG	1.97	0.46
11:V:295:MET:C	11:V:297:ASP:H	2.24	0.46
7:O:335:ASP:OD1	7:O:857:GLY:CA	2.64	0.46
7:O:335:ASP:OD2	7:O:774:ARG:HD3	2.16	0.46
8:P:274:GLY:HA2	8:P:284:ILE:C	2.40	0.46
8:P:825:ILE:O	8:P:825:ILE:HG22	2.15	0.46
9:T:99:ASN:C	9:T:101:PRO:N	2.73	0.46
9:T:435:TRP:CZ3	9:T:474:PHE:HE1	2.34	0.46
9:T:678:ASP:HA	9:T:687:LEU:HG	1.97	0.46
10:W:280:PHE:CE1	10:W:309:THR:CG2	2.99	0.46
11:X:294:ILE:O	11:X:294:ILE:HG13	2.15	0.46
1:c:325:UNK:CB	7:M:796:ILE:O	2.64	0.46
3:Z:225:ALA:CB	3:Z:263:ILE:HD11	2.45	0.46
3:Z:1191:LEU:HD11	3:Z:1213:LEU:CB	2.46	0.46
5:B:317:ASN:ND2	5:B:346:GLN:HB3	2.29	0.46
5:E:314:ASN:OD1	5:E:348:ILE:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:N:74:THR:O	8:N:77:ASN:HB2	2.16	0.46
9:R:435:TRP:CZ3	9:R:474:PHE:HE1	2.34	0.46
11:V:355:TRP:HE1	11:V:400:ILE:CB	2.11	0.46
2:0:515:VAL:O	2:0:537:LYS:NZ	2.25	0.46
3:1:225:ALA:CB	3:1:263:ILE:HD11	2.45	0.46
3:1:1176:LEU:HD13	3:1:1217:GLU:CD	2.41	0.46
3:1:1195:LEU:C	3:1:1197:GLY:H	2.23	0.46
3:1:1224:LYS:HB2	3:1:1276:THR:HG22	1.98	0.46
3:Z:1176:LEU:HD13	3:Z:1217:GLU:CD	2.41	0.46
3:Z:1224:LYS:HB2	3:Z:1276:THR:HG22	1.98	0.46
8:N:286:SER:H	8:N:287:PRO:HD2	1.81	0.46
8:N:825:ILE:O	8:N:825:ILE:HG22	2.15	0.46
9:R:99:ASN:C	9:R:101:PRO:N	2.73	0.46
2:0:1183:LEU:HB2	2:0:1184:PRO:HD3	1.98	0.46
7:O:1392:ILE:HD11	7:O:1437:LEU:CD1	2.39	0.46
9:S:641:ILE:HG22	9:S:645:GLN:HE21	1.80	0.46
9:T:676:GLY:O	9:T:679:ASP:HB2	2.15	0.46
3:Z:1215:TYR:CB	3:Z:1218:ILE:HD11	2.27	0.46
7:M:1392:ILE:HD11	7:M:1437:LEU:CD1	2.39	0.46
9:Q:641:ILE:HG22	9:Q:645:GLN:HE21	1.80	0.46
3:1:264:ILE:HG22	3:1:345:LEU:HD13	1.97	0.46
7:O:1584:ASN:HA	7:O:1585:PRO:HD3	1.76	0.46
8:P:288:LEU:HD22	8:P:295:PHE:HD1	1.81	0.46
11:X:296:GLU:O	11:X:346:LYS:CD	2.64	0.46
1:m:354:UNK:CB	2:0:1308:PHE:CD2	2.99	0.46
2:Y:1183:LEU:HB2	2:Y:1184:PRO:HD3	1.98	0.46
7:M:1381:LEU:C	7:M:1385:PHE:HD2	2.20	0.46
9:R:676:GLY:O	9:R:679:ASP:HB2	2.15	0.46
3:1:1191:LEU:HD11	3:1:1213:LEU:HB3	1.95	0.46
8:P:60:GLN:HB3	8:P:61:ASN:H	1.52	0.46
11:X:355:TRP:HE1	11:X:400:ILE:CB	2.11	0.46
1:k:288:UNK:N	5:E:366:THR:HG22	2.30	0.45
3:Z:264:ILE:HG22	3:Z:345:LEU:HD13	1.97	0.45
3:Z:1269:LEU:HD11	3:Z:1311:PHE:CE1	2.51	0.45
7:M:1490:ARG:HH12	9:R:825:PRO:CB	2.29	0.45
8:N:288:LEU:HD22	8:N:295:PHE:HD1	1.81	0.45
9:Q:207:ILE:HD11	11:V:398:CYS:HB3	1.99	0.45
3:1:1269:LEU:HD11	3:1:1311:PHE:CE1	2.51	0.45
7:O:1391:GLY:O	7:O:1393:ASN:N	2.43	0.45
1:j:442:UNK:CA	8:P:529:LEU:CD2	2.92	0.45
3:Z:1177:VAL:HG23	3:Z:1215:TYR:HH	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:380:LEU:HD13	6:F:314:TYR:CE2	2.51	0.45
7:M:1185:ILE:HG22	7:M:1194:LEU:HB2	1.96	0.45
7:M:1385:PHE:CZ	7:M:1426:VAL:HG22	2.51	0.45
3:1:957:LEU:HG	3:1:957:LEU:O	2.16	0.45
3:1:1183:ILE:HG21	3:1:1213:LEU:HD13	1.96	0.45
7:O:1490:ARG:HH12	9:T:825:PRO:CB	2.29	0.45
1:c:316:UNK:CB	5:E:463:LEU:HD13	2.45	0.45
1:m:350:UNK:HA	2:0:1305:SER:HA	1.98	0.45
1:d:394:UNK:O	8:N:389:PHE:CE1	2.68	0.45
3:Z:1146:SER:CA	9:R:447:ASP:OD1	2.58	0.45
3:Z:1185:GLU:HA	3:Z:1188:ARG:HB3	1.98	0.45
4:D:637:LEU:CD2	4:D:637:LEU:N	2.78	0.45
7:M:335:ASP:H	7:M:771:ARG:HH21	1.63	0.45
6:I:374:GLN:HE21	6:I:374:GLN:CA	2.20	0.45
4:J:806:SER:OG	9:T:31:ASN:O	2.32	0.45
5:K:371:GLN:NE2	5:K:371:GLN:CA	2.77	0.45
7:O:1185:ILE:HG22	7:O:1194:LEU:HB2	1.96	0.45
11:X:355:TRP:CD1	11:X:400:ILE:CG1	2.97	0.45
5:B:322:ILE:HD12	5:B:322:ILE:C	2.41	0.45
7:M:1189:MET:CA	8:N:248:GLN:HE21	2.30	0.45
7:M:1389:ILE:CG2	8:N:687:LYS:HE2	2.47	0.45
9:Q:548:SER:HB2	11:V:349:ILE:HB	1.97	0.45
11:V:355:TRP:HZ2	11:V:401:ASP:N	2.13	0.45
3:1:1146:SER:CA	9:T:447:ASP:OD1	2.58	0.45
5:K:380:LEU:HD13	6:L:314:TYR:CE2	2.51	0.45
7:O:1189:MET:CA	8:P:248:GLN:HE21	2.30	0.45
8:P:286:SER:CB	8:P:287:PRO:HD3	2.47	0.45
9:S:207:ILE:HD11	11:X:398:CYS:HB3	1.99	0.45
9:S:548:SER:HB2	11:X:349:ILE:HB	1.97	0.45
11:X:275:GLY:CA	11:X:354:SER:HB2	2.47	0.45
1:k:291:UNK:CB	5:E:373:ARG:HH11	2.29	0.45
1:g:268:UNK:CB	7:O:1038:LEU:HD11	2.33	0.45
3:Z:957:LEU:HG	3:Z:957:LEU:O	2.16	0.45
7:M:331:ILE:H	7:M:331:ILE:HG12	1.35	0.45
8:N:286:SER:CB	8:N:287:PRO:HD3	2.47	0.45
11:V:275:GLY:CA	11:V:354:SER:HB2	2.47	0.45
11:V:355:TRP:CD1	11:V:400:ILE:CG1	2.97	0.45
6:L:369:LEU:C	6:L:369:LEU:CD2	2.89	0.45
7:O:335:ASP:H	7:O:771:ARG:HH21	1.63	0.45
7:O:336:LYS:HD2	7:O:339:GLU:OE1	2.17	0.45
1:4:4:UNK:N	5:K:316:VAL:HG23	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:245:UNK:CB	7:M:115:GLN:CD	2.90	0.45
1:g:245:UNK:CB	7:O:115:GLN:CD	2.90	0.45
1:g:258:UNK:O	1:g:262:UNK:CB	2.65	0.45
4:D:810:ASN:OD1	9:R:35:ALA:O	2.34	0.45
7:M:336:LYS:HD2	7:M:339:GLU:OE1	2.17	0.45
7:M:1391:GLY:O	7:M:1393:ASN:N	2.44	0.45
11:V:294:ILE:CG1	11:V:361:ASN:OD1	2.61	0.45
2:0:613:GLY:H	2:0:635:GLU:HB2	1.80	0.45
5:K:373:ARG:HH21	6:L:307:SER:CB	2.29	0.45
9:S:547:TYR:CB	11:X:298:PHE:HB2	2.42	0.45
10:W:321:GLU:HB2	11:X:293:HIS:HE2	1.71	0.45
2:Y:613:GLY:H	2:Y:635:GLU:HB2	1.80	0.45
2:Y:1272:GLN:HE22	2:Y:1301:ILE:HA	1.80	0.45
2:Y:1484:ILE:H	2:Y:1484:ILE:HG13	1.53	0.45
3:Z:917:GLU:CB	3:Z:957:LEU:HD13	2.30	0.45
3:Z:1177:VAL:HG21	3:Z:1215:TYR:OH	2.17	0.45
7:M:1189:MET:SD	8:N:252:TYR:HB2	2.56	0.45
7:M:1381:LEU:HB3	7:M:1385:PHE:HE2	1.82	0.45
9:R:787:HIS:O	9:R:787:HIS:CG	2.70	0.45
10:U:262:ILE:CG2	10:U:265:SER:HG	1.89	0.45
6:I:371:LYS:CD	6:I:371:LYS:H	2.30	0.45
9:T:787:HIS:O	9:T:787:HIS:CG	2.70	0.45
10:W:262:ILE:O	10:W:266:ILE:HG13	2.17	0.45
5:B:323:LEU:HD13	5:B:339:MET:HG2	1.94	0.45
5:E:363:GLN:CG	5:E:364:VAL:N	2.79	0.45
9:Q:620:LEU:HD22	9:Q:647:ALA:HA	1.98	0.45
11:V:285:ILE:CG2	11:V:300:VAL:HG11	2.47	0.45
2:0:1272:GLN:HE22	2:0:1301:ILE:HA	1.80	0.45
3:1:494:ASN:C	3:1:512:ARG:H	2.25	0.45
5:K:363:GLN:CG	5:K:364:VAL:N	2.79	0.45
7:O:1189:MET:SD	8:P:252:TYR:HB2	2.56	0.45
7:O:1385:PHE:CE2	7:O:1429:ASP:OD2	2.70	0.45
7:O:1561:LEU:N	7:O:1580:VAL:CG1	2.68	0.45
8:P:186:LYS:HG2	8:P:190:GLN:HE21	1.82	0.45
8:P:286:SER:N	8:P:287:PRO:CD	2.79	0.45
8:P:286:SER:N	8:P:287:PRO:HD2	2.31	0.45
9:S:620:LEU:HD22	9:S:647:ALA:HA	1.98	0.45
10:W:252:ALA:CB	10:W:345:TYR:CE1	3.00	0.45
10:W:276:ILE:CA	10:W:283:ILE:HD11	2.47	0.45
1:8:74:UNK:CB	9:T:473:ARG:HE	2.30	0.45
1:m:342:UNK:CB	2:0:1261:ARG:HH22	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:380:LEU:CG	6:F:314:TYR:HE2	2.25	0.45
8:N:186:LYS:HG2	8:N:190:GLN:HE21	1.82	0.45
8:N:286:SER:N	8:N:287:PRO:CD	2.79	0.45
8:N:286:SER:N	8:N:287:PRO:HD2	2.32	0.45
9:Q:593:ILE:CG2	9:Q:600:ILE:CG1	2.94	0.45
5:K:380:LEU:CG	6:L:314:TYR:HE2	2.25	0.45
7:O:1385:PHE:CD1	7:O:1429:ASP:OD2	2.70	0.45
11:X:273:VAL:CG2	11:X:356:VAL:C	2.84	0.45
1:n:347:UNK:HA	2:Y:1328:ALA:HB1	1.99	0.45
7:M:336:LYS:HE2	7:M:771:ARG:HD3	1.98	0.45
7:M:1389:ILE:HG13	8:N:687:LYS:HA	1.98	0.45
10:U:248:TRP:CD1	10:U:248:TRP:O	2.70	0.45
10:U:252:ALA:CB	10:U:345:TYR:CE1	3.00	0.45
10:U:262:ILE:O	10:U:266:ILE:HG13	2.17	0.45
3:1:917:GLU:CB	3:1:957:LEU:HD13	2.30	0.45
7:O:336:LYS:HE2	7:O:771:ARG:HD3	1.98	0.45
3:Z:1262:LEU:HD21	3:Z:1306:SER:HB2	1.99	0.44
8:N:1293:ILE:HD13	8:N:1307:PHE:HB2	1.99	0.44
2:0:1484:ILE:H	2:0:1484:ILE:HG13	1.53	0.44
3:1:1215:TYR:HB3	3:1:1218:ILE:HG22	1.96	0.44
7:O:331:ILE:H	7:O:331:ILE:HG12	1.35	0.44
7:O:1389:ILE:HG13	8:P:687:LYS:HA	1.98	0.44
2:Y:519:THR:HG23	2:Y:533:SER:OG	2.17	0.44
7:M:1558:ASP:C	7:M:1582:LEU:HD11	2.43	0.44
7:M:1561:LEU:N	7:M:1580:VAL:CG1	2.68	0.44
8:N:72:ARG:HA	8:N:75:ILE:HD12	2.00	0.44
9:R:740:GLU:HA	9:R:747:PHE:CE2	2.53	0.44
10:U:321:GLU:HB2	11:V:293:HIS:HE2	1.71	0.44
3:1:1262:LEU:HD21	3:1:1306:SER:HB2	1.99	0.44
7:O:1558:ASP:C	7:O:1582:LEU:HD11	2.42	0.44
7:O:1584:ASN:HA	7:O:1584:ASN:HD22	1.55	0.44
10:W:248:TRP:O	10:W:248:TRP:CD1	2.71	0.44
1:h:315:UNK:O	1:h:318:UNK:CA	2.65	0.44
5:B:325:THR:HG22	5:B:335:TRP:CZ2	2.51	0.44
3:1:492:TYR:HD1	3:1:509:THR:HG21	1.82	0.44
3:1:918:MET:HB3	3:1:919:ILE:H	1.51	0.44
3:1:1173:LEU:CD1	3:1:1195:LEU:CD2	2.90	0.44
5:K:325:THR:O	5:K:326:LYS:CD	2.65	0.44
5:K:373:ARG:HA	5:K:376:LEU:HG	1.99	0.44
7:O:384:MET:SD	7:O:760:ILE:HA	2.57	0.44
8:P:1293:ILE:HD13	8:P:1307:PHE:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:1471:ILE:HD13	2:Y:1471:ILE:HA	1.91	0.44
3:Z:1210:ALA:CB	3:Z:1218:ILE:CG1	2.95	0.44
7:M:1374:LYS:HE3	7:M:1419:ASP:HA	1.99	0.44
11:V:273:VAL:O	11:V:355:TRP:CB	2.66	0.44
11:V:273:VAL:O	11:V:355:TRP:CE3	2.68	0.44
11:V:394:GLN:O	11:V:398:CYS:N	2.51	0.44
2:0:1019:ARG:CB	9:T:246:ASN:H	2.29	0.44
2:0:1306:GLU:O	2:0:1310:ASP:OD1	2.35	0.44
7:O:1189:MET:CB	8:P:249:ASP:CG	2.91	0.44
8:P:266:THR:O	8:P:270:ILE:HB	2.18	0.44
11:X:273:VAL:O	11:X:355:TRP:CE3	2.68	0.44
11:X:355:TRP:HZ2	11:X:401:ASP:N	2.14	0.44
2:Y:1019:ARG:CB	9:R:246:ASN:H	2.29	0.44
7:M:384:MET:SD	7:M:760:ILE:HA	2.57	0.44
7:M:1185:ILE:O	7:M:1185:ILE:HG13	2.16	0.44
7:M:1247:ARG:HG2	7:M:1247:ARG:HH11	1.81	0.44
8:N:266:THR:O	8:N:270:ILE:HB	2.18	0.44
9:R:160:GLY:O	9:R:163:ILE:CB	2.66	0.44
9:R:674:LEU:HD21	9:R:724:ARG:HB3	1.99	0.44
10:U:321:GLU:CB	11:V:293:HIS:NE2	2.62	0.44
3:1:492:TYR:C	3:1:511:VAL:CG1	2.74	0.44
7:O:1381:LEU:CD1	7:O:1426:VAL:HG23	2.47	0.44
11:X:270:ALA:HB1	11:X:271:ILE:H	1.60	0.44
11:X:273:VAL:O	11:X:355:TRP:CB	2.66	0.44
11:X:355:TRP:CD1	11:X:400:ILE:HD12	2.49	0.44
11:X:394:GLN:O	11:X:398:CYS:N	2.51	0.44
1:m:353:UNK:C	2:0:1309:ASN:HB2	2.47	0.44
3:Z:408:LYS:HD3	3:Z:497:CYS:HA	2.00	0.44
7:M:1584:ASN:HA	7:M:1584:ASN:HD22	1.55	0.44
9:R:435:TRP:CZ2	9:R:474:PHE:HD1	2.35	0.44
11:V:282:ASN:HB2	11:V:300:VAL:HB	2.00	0.44
11:V:355:TRP:CD1	11:V:400:ILE:HD12	2.50	0.44
2:0:1471:ILE:HD13	2:0:1471:ILE:HA	1.90	0.44
7:O:1185:ILE:HG13	7:O:1185:ILE:O	2.16	0.44
7:O:1190:TYR:CG	7:O:1190:TYR:O	2.70	0.44
9:T:435:TRP:CZ2	9:T:474:PHE:HD1	2.35	0.44
9:T:674:LEU:HD21	9:T:724:ARG:HB3	1.99	0.44
9:T:740:GLU:HA	9:T:747:PHE:CE2	2.53	0.44
10:W:266:ILE:HA	10:W:336:ASN:OD1	2.17	0.44
10:W:321:GLU:CB	11:X:293:HIS:NE2	2.62	0.44
2:Y:516:LEU:HD21	2:Y:577:PHE:CZ	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:M:1190:TYR:CG	7:M:1190:TYR:O	2.70	0.44
8:N:185:LEU:HB3	8:N:257:LEU:HD22	1.99	0.44
9:R:670:LEU:HA	9:R:674:LEU:HD23	1.99	0.44
3:1:1127:LEU:HB2	3:1:1197:GLY:O	2.17	0.44
7:O:1247:ARG:HG2	7:O:1247:ARG:HH11	1.82	0.44
7:O:1382:TYR:CG	8:P:748:HIS:CE1	2.66	0.44
7:O:1391:GLY:C	7:O:1393:ASN:N	2.73	0.44
1:e:435:UNK:O	8:N:556:LEU:HD13	2.18	0.44
7:M:1391:GLY:C	7:M:1393:ASN:N	2.73	0.44
11:V:282:ASN:HD22	11:V:299:GLN:CB	2.31	0.44
5:K:317:ASN:CB	5:K:348:ILE:CD1	2.92	0.44
8:P:185:LEU:HB3	8:P:257:LEU:HD22	1.99	0.44
2:Y:1019:ARG:HG3	9:R:246:ASN:CG	2.43	0.44
6:F:456:ARG:HH21	9:R:61:LYS:HA	1.82	0.44
7:M:1559:LEU:CD2	7:O:1642:LYS:CD	2.90	0.44
9:Q:127:THR:O	9:Q:131:GLU:N	2.31	0.44
9:R:339:TYR:CD1	9:R:342:ARG:HD3	2.52	0.44
2:0:1019:ARG:HG3	9:T:246:ASN:CG	2.43	0.44
3:1:493:ILE:HB	3:1:511:VAL:CG1	2.48	0.44
3:1:1173:LEU:CD1	3:1:1195:LEU:HD13	2.47	0.44
9:T:339:TYR:CD1	9:T:342:ARG:HD3	2.52	0.44
3:Z:918:MET:HB3	3:Z:919:ILE:H	1.51	0.43
6:C:374:GLN:HE21	6:C:374:GLN:CA	2.15	0.43
7:M:1479:LEU:HB3	7:M:1485:LEU:HB2	2.00	0.43
8:N:69:ASN:HD22	8:N:69:ASN:HA	1.52	0.43
9:R:674:LEU:HD13	9:R:674:LEU:HA	1.75	0.43
11:V:274:PHE:CZ	11:V:383:GLY:O	2.71	0.43
9:S:716:LEU:HD23	9:S:767:ILE:CD1	2.48	0.43
11:X:274:PHE:CZ	11:X:383:GLY:O	2.71	0.43
1:n:353:UNK:C	2:Y:1309:ASN:HB3	2.48	0.43
3:Z:493:ILE:HB	3:Z:494:ASN:H	1.54	0.43
5:E:294:LYS:H	5:E:294:LYS:HD3	1.83	0.43
8:N:249:ASP:OD2	8:N:835:LEU:CG	2.64	0.43
9:Q:716:LEU:HD23	9:Q:767:ILE:CD1	2.48	0.43
2:0:516:LEU:HA	2:0:537:LYS:CE	2.45	0.43
4:J:821:ILE:HD11	5:K:534:VAL:CG2	2.48	0.43
6:L:456:ARG:HH21	9:T:61:LYS:HA	1.82	0.43
7:O:1479:LEU:HB3	7:O:1485:LEU:HB2	2.00	0.43
9:S:603:VAL:HG23	9:S:604:ILE:HG13	1.99	0.43
9:T:670:LEU:HA	9:T:674:LEU:HD23	2.00	0.43
9:T:674:LEU:HD13	9:T:674:LEU:HA	1.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:1191:LEU:HD11	3:Z:1213:LEU:HB2	2.01	0.43
5:E:364:VAL:O	5:E:367:GLU:CG	2.66	0.43
8:N:305:ASP:OD1	8:N:352:PHE:CZ	2.71	0.43
11:V:270:ALA:HB1	11:V:271:ILE:H	1.60	0.43
3:1:1177:VAL:CG2	3:1:1215:TYR:CE2	2.82	0.43
5:K:294:LYS:HD3	5:K:294:LYS:H	1.83	0.43
8:P:305:ASP:OD1	8:P:352:PHE:CZ	2.71	0.43
1:g:265:UNK:CB	7:O:976:ALA:HB2	2.47	0.43
1:l:288:UNK:CB	5:K:367:GLU:HA	2.48	0.43
4:D:821:ILE:HD11	5:E:534:VAL:CG2	2.48	0.43
7:M:1189:MET:HB3	8:N:248:GLN:NE2	2.33	0.43
10:U:267:ILE:C	10:U:283:ILE:CD1	2.91	0.43
7:O:1189:MET:HB3	8:P:248:GLN:NE2	2.33	0.43
8:N:222:GLU:HA	8:N:222:GLU:OE1	2.18	0.43
11:V:295:MET:C	11:V:297:ASP:N	2.77	0.43
7:O:1189:MET:CA	8:P:249:ASP:CG	2.74	0.43
7:O:1385:PHE:CD2	7:O:1429:ASP:OD2	2.72	0.43
11:X:386:PRO:O	11:X:387:TYR:CD2	2.71	0.43
2:Y:181:ARG:HD2	2:Y:192:LEU:HB3	2.00	0.43
5:B:323:LEU:CD1	5:B:338:ALA:O	2.65	0.43
10:U:304:LYS:N	11:V:271:ILE:CG1	2.78	0.43
11:V:298:PHE:CE2	11:V:299:GLN:HB2	2.54	0.43
2:0:181:ARG:HD2	2:0:192:LEU:HB3	2.01	0.43
8:N:227:ILE:HG13	8:N:258:ILE:HD13	2.00	0.43
9:R:577:ARG:HD3	9:R:623:ILE:HA	2.01	0.43
11:V:386:PRO:O	11:V:387:TYR:CD2	2.71	0.43
3:1:1305:GLY:HA3	3:1:1345:TRP:CD2	2.53	0.43
7:O:125:HIS:CG	7:O:126:GLU:N	2.86	0.43
2:Y:683:LEU:HD22	2:Y:773:ILE:HA	2.01	0.43
3:Z:225:ALA:HB2	3:Z:263:ILE:HD11	2.01	0.43
3:Z:1305:GLY:HA3	3:Z:1345:TRP:CD2	2.53	0.43
5:E:314:ASN:ND2	5:E:348:ILE:O	2.52	0.43
7:M:125:HIS:CG	7:M:126:GLU:N	2.86	0.43
2:0:683:LEU:HD22	2:0:773:ILE:HA	2.01	0.43
3:1:919:ILE:HB	3:1:920:ASP:H	1.58	0.43
7:O:1380:ARG:CD	7:O:1415:ARG:HE	2.32	0.43
9:T:577:ARG:HD3	9:T:623:ILE:HA	2.01	0.43
1:h:319:UNK:CB	5:K:460:TRP:HZ3	2.22	0.43
1:n:350:UNK:CA	2:Y:1305:SER:HA	2.49	0.43
3:Z:420:LEU:HD22	3:Z:433:TYR:HB3	2.01	0.43
3:1:494:ASN:N	3:1:494:ASN:HD22	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1:1199:VAL:HG12	3:1:1200:LEU:N	2.34	0.43
5:H:318:GLU:OE1	5:H:318:GLU:HA	2.19	0.43
7:O:126:GLU:HA	7:O:131:TYR:CD2	2.54	0.43
7:O:1189:MET:HB2	8:P:249:ASP:CG	2.41	0.43
9:S:676:GLY:C	9:S:678:ASP:H	2.26	0.43
9:T:359:ASN:OD1	11:X:368:ARG:NE	2.52	0.43
11:X:378:ARG:HD3	11:X:378:ARG:HA	1.92	0.43
1:c:325:UNK:O	7:M:806:LEU:HD12	2.19	0.43
1:n:353:UNK:C	2:Y:1309:ASN:CB	2.97	0.43
3:Z:770:ARG:HB3	3:Z:771:PRO:HD3	2.01	0.43
5:B:323:LEU:CD2	5:B:338:ALA:O	2.62	0.43
7:M:1555:VAL:HG21	7:M:1561:LEU:HD11	2.00	0.43
9:R:359:ASN:OD1	11:V:368:ARG:NE	2.52	0.43
3:1:225:ALA:HB2	3:1:263:ILE:HD11	2.01	0.43
3:1:420:LEU:HD22	3:1:433:TYR:HB3	2.01	0.43
3:1:770:ARG:HB3	3:1:771:PRO:HD3	2.01	0.43
6:I:371:LYS:HD2	6:I:371:LYS:H	1.83	0.43
4:J:702:ARG:NE	4:J:702:ARG:HA	2.34	0.43
10:W:266:ILE:CD1	10:W:336:ASN:HB2	2.49	0.43
2:Y:829:ILE:H	2:Y:831:LYS:HG2	1.84	0.42
4:D:765:LEU:CD2	5:E:460:TRP:CZ2	2.96	0.42
3:1:1173:LEU:HD13	3:1:1195:LEU:HD22	1.98	0.42
3:1:1184:ASP:CB	3:1:1187:TYR:CD2	2.88	0.42
4:J:765:LEU:CD2	5:K:460:TRP:CZ2	2.96	0.42
8:P:1357:CYS:SG	9:T:453:VAL:CB	3.07	0.42
9:S:601:PRO:HB2	9:S:606:GLU:CG	2.49	0.42
11:X:273:VAL:HB	11:X:356:VAL:CA	2.48	0.42
3:Z:494:ASN:HB2	3:Z:512:ARG:CB	2.49	0.42
3:Z:919:ILE:HB	3:Z:920:ASP:H	1.58	0.42
4:D:702:ARG:NE	4:D:702:ARG:HA	2.34	0.42
9:R:301:ASN:CB	9:R:345:LEU:HD13	2.48	0.42
11:V:273:VAL:HB	11:V:356:VAL:CA	2.48	0.42
11:V:282:ASN:C	11:V:282:ASN:OD1	2.62	0.42
2:0:829:ILE:H	2:0:831:LYS:HG2	1.84	0.42
7:O:1555:VAL:HG21	7:O:1561:LEU:HD11	2.00	0.42
8:P:174:VAL:HG21	8:P:242:TYR:CD2	2.53	0.42
1:4:2:UNK:CB	5:K:314:ASN:OD1	2.66	0.42
5:E:435:LYS:HA	5:E:438:SER:HB2	2.01	0.42
7:M:126:GLU:HA	7:M:131:TYR:CD2	2.55	0.42
8:N:808:THR:O	8:N:872:ASN:HB2	2.20	0.42
8:N:1357:CYS:SG	9:R:453:VAL:CB	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Q:676:GLY:C	9:Q:678:ASP:H	2.26	0.42
10:U:321:GLU:OE2	10:U:321:GLU:HA	2.20	0.42
11:V:294:ILE:HA	11:V:361:ASN:ND2	2.35	0.42
5:K:435:LYS:HA	5:K:438:SER:HB2	2.01	0.42
7:O:1500:ASN:HD21	7:O:1551:SER:CB	2.32	0.42
8:P:808:THR:O	8:P:872:ASN:HB2	2.20	0.42
9:T:301:ASN:CB	9:T:345:LEU:HD13	2.48	0.42
1:d:394:UNK:HA	8:N:330:TYR:CD1	2.54	0.42
4:A:803:ALA:HA	9:Q:31:ASN:CB	2.50	0.42
7:M:1500:ASN:HD21	7:M:1551:SER:CB	2.33	0.42
7:M:1642:LYS:CD	7:O:1559:LEU:CD2	2.91	0.42
8:N:174:VAL:HG21	8:N:242:TYR:CD2	2.54	0.42
8:N:225:ARG:O	8:N:228:ASN:CA	2.67	0.42
8:N:1107:GLU:O	8:N:1111:HIS:CE1	2.72	0.42
5:K:317:ASN:CB	5:K:348:ILE:HG12	2.30	0.42
6:L:433:LYS:CB	9:T:51:ARG:CB	2.97	0.42
10:W:321:GLU:OE2	10:W:321:GLU:HA	2.20	0.42
11:X:271:ILE:HD13	11:X:386:PRO:HB3	2.01	0.42
7:M:800:ILE:HD12	7:M:800:ILE:H	1.83	0.42
9:R:432:ILE:CD1	9:R:477:TYR:CG	2.80	0.42
10:U:266:ILE:CD1	10:U:336:ASN:HB2	2.50	0.42
11:V:271:ILE:HD13	11:V:386:PRO:HB3	2.01	0.42
11:V:282:ASN:HD22	11:V:299:GLN:HB2	1.83	0.42
11:V:378:ARG:HD3	11:V:378:ARG:HA	1.93	0.42
6:L:374:GLN:CA	6:L:374:GLN:NE2	2.83	0.42
8:P:1107:GLU:O	8:P:1111:HIS:CE1	2.73	0.42
3:Z:412:ILE:HG23	3:Z:415:CYS:HB2	2.02	0.42
4:D:812:THR:HA	4:D:815:GLU:HG2	2.02	0.42
7:M:381:THR:CB	7:M:703:TYR:HB3	2.50	0.42
8:N:635:ILE:HG21	8:N:671:LEU:HD13	2.01	0.42
2:0:1313:VAL:H	2:0:1314:PRO:HD2	1.85	0.42
3:1:412:ILE:HG23	3:1:415:CYS:HB2	2.02	0.42
3:1:1169:ILE:HG22	3:1:1218:ILE:CD1	2.49	0.42
7:O:331:ILE:HG13	7:O:491:SER:HB2	2.00	0.42
7:O:800:ILE:H	7:O:800:ILE:HD12	1.83	0.42
7:O:1385:PHE:CG	7:O:1429:ASP:OD2	2.73	0.42
2:Y:1313:VAL:H	2:Y:1314:PRO:HD2	1.85	0.42
3:Z:1210:ALA:HB1	3:Z:1218:ILE:CG1	2.48	0.42
5:B:317:ASN:HB3	5:B:346:GLN:CG	2.43	0.42
6:F:433:LYS:O	6:F:441:SER:OG	2.30	0.42
7:M:331:ILE:HG13	7:M:491:SER:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Q:595:ARG:HD2	10:U:329:GLN:NE2	2.34	0.42
9:Q:601:PRO:CB	9:Q:605:GLU:CD	2.91	0.42
4:J:812:THR:HA	4:J:815:GLU:HG2	2.02	0.42
7:O:381:THR:CB	7:O:703:TYR:HB3	2.50	0.42
8:P:221:VAL:O	8:P:225:ARG:HG3	2.19	0.42
8:P:635:ILE:HG21	8:P:671:LEU:HD13	2.01	0.42
9:S:547:TYR:O	11:X:298:PHE:CD2	2.73	0.42
9:S:584:LYS:CE	9:S:636:ARG:HD3	2.48	0.42
9:T:158:ASN:C	9:T:162:LEU:CB	2.90	0.42
5:B:322:ILE:C	5:B:322:ILE:CD1	2.93	0.42
7:M:1393:ASN:ND2	8:N:687:LYS:NZ	2.64	0.42
2:0:518:GLU:HA	2:0:518:GLU:OE2	2.18	0.42
2:0:832:VAL:HG12	2:0:834:ILE:H	1.84	0.42
7:O:985:GLN:HA	7:O:988:SER:CB	2.36	0.42
8:P:270:ILE:HG13	8:P:320:MET:HE2	2.02	0.42
9:T:631:ALA:HA	9:T:636:ARG:HH21	1.83	0.42
2:Y:832:VAL:HG12	2:Y:834:ILE:H	1.84	0.42
5:B:320:GLU:HB2	5:B:348:ILE:HD11	2.01	0.42
7:M:831:ILE:HD13	7:M:831:ILE:HG21	1.85	0.42
7:M:1642:LYS:HD2	7:O:1559:LEU:HD21	2.02	0.42
8:N:270:ILE:HG13	8:N:320:MET:HE2	2.02	0.42
9:Q:601:PRO:O	9:Q:606:GLU:HG3	2.19	0.42
9:R:394:TYR:CE2	9:R:419:ASP:HB2	2.55	0.42
9:R:631:ALA:HA	9:R:636:ARG:HH21	1.83	0.42
10:U:321:GLU:CG	11:V:293:HIS:CD2	2.88	0.42
2:Y:517:LEU:CB	2:Y:537:LYS:NZ	2.82	0.42
6:F:394:ILE:CG1	9:R:40:GLY:O	2.68	0.42
7:M:1329:LEU:HD23	7:M:1380:ARG:NH2	2.30	0.42
9:R:670:LEU:H	9:R:670:LEU:HG	1.61	0.42
5:H:322:ILE:HG22	5:H:335:TRP:CZ2	2.53	0.42
6:I:352:VAL:HG23	6:L:292:HIS:CE1	2.55	0.42
6:I:369:LEU:N	6:I:373:PHE:HB2	2.35	0.42
7:O:1490:ARG:NH1	9:T:825:PRO:HA	2.33	0.42
7:O:1652:LYS:HA	7:O:1652:LYS:HE3	2.01	0.42
8:P:270:ILE:HD13	8:P:270:ILE:HA	1.75	0.42
9:T:432:ILE:CD1	9:T:477:TYR:CG	2.80	0.42
1:m:354:UNK:N	2:0:1309:ASN:HB3	2.35	0.41
3:Z:914:GLN:O	3:Z:917:GLU:HG2	2.19	0.41
6:C:352:VAL:HG23	6:F:292:HIS:CE1	2.55	0.41
7:M:380:ALA:C	7:M:382:ASP:N	2.78	0.41
7:M:1490:ARG:NH1	9:R:825:PRO:HA	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:N:220:PHE:CD2	8:N:265:PHE:CZ	3.08	0.41
8:N:273:LEU:HB3	8:N:328:ILE:CD1	2.50	0.41
9:Q:589:LEU:HA	9:Q:603:VAL:HG22	1.98	0.41
3:1:214:PHE:CG	3:1:221:LEU:HD11	2.55	0.41
5:K:318:GLU:HA	5:K:346:GLN:N	2.33	0.41
8:P:273:LEU:HB3	8:P:328:ILE:CD1	2.50	0.41
9:T:394:TYR:CE2	9:T:419:ASP:HB2	2.55	0.41
10:W:253:ILE:H	10:W:318:TYR:HD2	1.68	0.41
11:X:294:ILE:HG22	11:X:361:ASN:CG	2.45	0.41
1:k:288:UNK:CA	5:E:370:ALA:CB	2.84	0.41
3:Z:214:PHE:CG	3:Z:221:LEU:HD11	2.55	0.41
5:B:540:LYS:HZ1	6:C:467:LEU:HD22	1.85	0.41
6:F:353:LEU:HD11	6:F:369:LEU:HD12	2.02	0.41
7:M:1385:PHE:CZ	7:M:1426:VAL:CG2	3.03	0.41
7:M:1579:ASN:ND2	9:T:173:LYS:C	2.79	0.41
7:M:1652:LYS:HA	7:M:1652:LYS:HE3	2.01	0.41
9:Q:588:VAL:CG2	10:U:248:TRP:HZ3	2.33	0.41
2:0:518:GLU:HB3	2:0:536:ILE:HB	2.01	0.41
2:0:1020:ASN:HD22	9:T:248:THR:N	2.18	0.41
7:O:341:PHE:CE2	7:O:652:ALA:HB2	2.44	0.41
7:O:1671:VAL:CG1	9:T:166:LYS:HA	2.50	0.41
11:X:293:HIS:O	11:X:361:ASN:ND2	2.53	0.41
1:n:350:UNK:HA	2:Y:1305:SER:HA	2.02	0.41
2:Y:1020:ASN:HD22	9:R:248:THR:N	2.18	0.41
7:M:341:PHE:CE2	7:M:652:ALA:HB2	2.44	0.41
7:M:1619:ASN:HA	9:R:634:ASP:O	2.21	0.41
8:N:327:PHE:HB3	8:N:389:PHE:HE2	1.85	0.41
9:Q:73:LEU:CB	9:T:84:ASP:HA	2.50	0.41
9:Q:573:HIS:CG	9:Q:623:ILE:HD11	2.55	0.41
10:U:253:ILE:H	10:U:318:TYR:HD2	1.68	0.41
3:1:914:GLN:O	3:1:917:GLU:HG2	2.19	0.41
7:O:380:ALA:C	7:O:382:ASP:N	2.78	0.41
7:O:1381:LEU:HD21	7:O:1425:LYS:CB	2.50	0.41
9:S:588:VAL:CG2	10:W:248:TRP:HZ3	2.33	0.41
8:N:270:ILE:HD13	8:N:270:ILE:HA	1.75	0.41
8:N:1339:PHE:CE2	8:N:1343:VAL:HG21	2.56	0.41
7:O:831:ILE:HD13	7:O:831:ILE:HG21	1.85	0.41
9:S:573:HIS:CG	9:S:623:ILE:HD11	2.55	0.41
1:l:291:UNK:CB	5:K:373:ARG:HH11	2.32	0.41
7:M:1389:ILE:HD11	8:N:686:GLY:O	2.20	0.41
8:N:309:ASN:CG	8:N:352:PHE:HE1	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1:1210:ALA:HB2	3:1:1218:ILE:CG2	2.51	0.41
7:O:1188:THR:C	7:O:1190:TYR:H	2.28	0.41
7:O:1385:PHE:CZ	7:O:1426:VAL:CG2	3.04	0.41
7:O:1389:ILE:HD11	8:P:686:GLY:O	2.20	0.41
8:P:1339:PHE:CE2	8:P:1343:VAL:HG21	2.56	0.41
9:S:673:PRO:HA	9:S:728:PHE:CE2	2.55	0.41
10:W:261:THR:C	10:W:263:ALA:N	2.78	0.41
1:h:315:UNK:HA	1:h:318:UNK:CB	2.50	0.41
7:M:444:THR:HG23	7:M:506:ASN:ND2	2.31	0.41
7:M:1190:TYR:HD2	8:N:758:TYR:O	2.04	0.41
9:Q:673:PRO:HA	9:Q:728:PHE:CE2	2.55	0.41
10:U:261:THR:C	10:U:263:ALA:N	2.78	0.41
3:1:1194:LYS:CE	3:1:1208:ASP:O	2.68	0.41
7:O:1619:ASN:HA	9:T:634:ASP:O	2.21	0.41
9:S:589:LEU:HD23	9:S:603:VAL:HG21	2.01	0.41
9:T:670:LEU:H	9:T:670:LEU:HG	1.61	0.41
3:Z:919:ILE:HD13	3:Z:919:ILE:N	2.36	0.41
5:B:323:LEU:CG	5:B:335:TRP:CH2	3.04	0.41
7:M:1189:MET:O	7:M:1189:MET:HE2	2.21	0.41
7:M:1381:LEU:HD12	7:M:1426:VAL:HG23	2.03	0.41
7:O:444:THR:HG23	7:O:506:ASN:ND2	2.31	0.41
7:O:1190:TYR:HD2	8:P:758:TYR:O	2.04	0.41
8:P:271:LEU:HD21	8:P:378:VAL:HG21	2.03	0.41
2:Y:1005:ARG:O	2:Y:1009:HIS:CD2	2.74	0.41
7:M:523:ARG:O	7:M:527:TYR:CD2	2.74	0.41
7:M:1188:THR:C	7:M:1190:TYR:H	2.28	0.41
3:1:495:THR:HA	3:1:510:CYS:O	2.21	0.41
3:1:919:ILE:HD13	3:1:919:ILE:N	2.36	0.41
5:H:321:ALA:HA	5:H:348:ILE:HG12	2.02	0.41
6:I:372:PHE:CE2	6:I:376:LYS:HD3	2.55	0.41
5:K:457:ASN:CA	5:K:460:TRP:HD1	2.32	0.41
7:O:523:ARG:O	7:O:527:TYR:CD2	2.74	0.41
7:O:1189:MET:O	7:O:1189:MET:HE2	2.21	0.41
8:P:309:ASN:CG	8:P:352:PHE:HE1	2.29	0.41
1:4:2:UNK:HA	5:K:314:ASN:OD1	2.16	0.41
1:e:446:UNK:CB	8:N:529:LEU:HD23	2.50	0.41
2:Y:120:VAL:HG12	2:Y:122:ASP:H	1.86	0.41
2:Y:1140:LYS:HA	2:Y:1140:LYS:HD3	1.89	0.41
2:Y:1425:LYS:NZ	7:O:1432:LEU:HD23	2.35	0.41
5:B:295:CYS:O	6:C:280:LEU:HD11	2.20	0.41
5:E:314:ASN:ND2	5:E:348:ILE:CD1	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:457:ASN:CA	5:E:460:TRP:HD1	2.32	0.41
7:M:771:ARG:HH21	7:M:856:GLU:HB3	1.86	0.41
8:N:271:LEU:HD21	8:N:378:VAL:HG21	2.03	0.41
9:R:337:ILE:HD13	9:R:337:ILE:HG21	1.89	0.41
2:0:1005:ARG:O	2:0:1009:HIS:CD2	2.74	0.41
2:0:1140:LYS:HA	2:0:1140:LYS:HD3	1.90	0.41
5:H:295:CYS:O	6:I:280:LEU:HD11	2.20	0.41
5:H:322:ILE:CG2	5:H:335:TRP:CZ2	3.04	0.41
7:O:771:ARG:HH21	7:O:856:GLU:HB3	1.86	0.41
8:P:221:VAL:HG12	8:P:225:ARG:HE	1.86	0.41
9:S:564:GLU:OE2	9:S:612:HIS:CD2	2.74	0.41
10:W:271:ALA:HB2	10:W:283:ILE:CB	2.51	0.41
10:W:330:GLU:CD	10:W:333:ILE:HG13	2.46	0.41
3:Z:492:TYR:CD1	3:Z:492:TYR:N	2.89	0.41
4:D:819:ASN:H	4:D:819:ASN:ND2	2.19	0.41
8:N:225:ARG:HA	8:N:228:ASN:HB2	2.02	0.41
8:N:276:ASN:HB2	8:N:280:ALA:HB2	2.02	0.41
8:N:327:PHE:CB	8:N:389:PHE:CE2	3.04	0.41
9:Q:564:GLU:OE2	9:Q:612:HIS:CD2	2.74	0.41
11:V:355:TRP:CD1	11:V:400:ILE:HD13	2.34	0.41
3:1:182:LEU:HD12	3:1:194:ILE:CD1	2.50	0.41
5:K:370:ALA:HB2	5:K:373:ARG:HD2	2.02	0.41
6:L:436:LEU:C	6:L:436:LEU:HD13	2.46	0.41
10:W:282:VAL:HG23	10:W:283:ILE:HD13	1.98	0.41
1:h:316:UNK:CB	5:K:467:LYS:HD2	2.50	0.40
3:Z:182:LEU:HD12	3:Z:194:ILE:CD1	2.51	0.40
7:M:43:LYS:HD3	7:M:79:ASP:HA	2.03	0.40
7:M:1429:ASP:OD1	7:M:1429:ASP:C	2.64	0.40
11:V:282:ASN:HB2	11:V:300:VAL:CA	2.51	0.40
3:1:1191:LEU:HD22	3:1:1215:TYR:HE2	1.83	0.40
7:O:1380:ARG:HD2	7:O:1415:ARG:HD3	2.03	0.40
9:T:432:ILE:HD11	9:T:477:TYR:CD1	2.50	0.40
7:M:1189:MET:SD	7:M:1190:TYR:HD1	2.44	0.40
7:M:1377:VAL:C	7:M:1381:LEU:HD23	2.46	0.40
8:N:741:LYS:O	8:N:744:LEU:CD1	2.70	0.40
2:0:120:VAL:HG12	2:0:122:ASP:H	1.86	0.40
2:0:863:ILE:C	2:0:863:ILE:HD12	2.46	0.40
4:G:792:GLN:CD	9:S:17:GLY:HA2	2.46	0.40
4:J:803:ALA:CA	9:T:31:ASN:CB	2.98	0.40
4:J:819:ASN:H	4:J:819:ASN:ND2	2.20	0.40
7:O:43:LYS:HD3	7:O:79:ASP:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:1189:MET:SD	7:O:1190:TYR:HD1	2.44	0.40
8:P:276:ASN:HB2	8:P:280:ALA:HB2	2.03	0.40
2:Y:863:ILE:C	2:Y:863:ILE:HD12	2.46	0.40
2:Y:1186:LEU:HB3	2:Y:1200:LEU:HD13	2.03	0.40
3:Z:344:GLN:OE1	3:Z:497:CYS:CB	2.57	0.40
3:Z:968:LEU:HA	3:Z:968:LEU:HD23	1.84	0.40
5:B:323:LEU:CB	5:B:335:TRP:CZ3	3.01	0.40
9:R:435:TRP:CZ2	9:R:474:PHE:CD1	3.09	0.40
2:0:1310:ASP:OD2	2:0:1311:PHE:CZ	2.66	0.40
3:1:1192:THR:O	3:1:1196:ASN:HB2	2.21	0.40
5:K:324:TYR:HB2	5:K:335:TRP:CZ3	2.55	0.40
6:L:436:LEU:C	6:L:438:ALA:H	2.30	0.40
7:O:1671:VAL:HG12	9:T:166:LYS:HA	2.02	0.40
9:T:337:ILE:HD13	9:T:337:ILE:HG21	1.89	0.40
9:T:435:TRP:CZ2	9:T:474:PHE:CD1	3.09	0.40
1:c:317:UNK:O	5:E:464:ALA:CB	2.62	0.40
1:m:353:UNK:CB	2:0:1309:ASN:CG	2.95	0.40
5:B:540:LYS:NZ	6:C:467:LEU:HD22	2.37	0.40
9:Q:602:GLY:C	9:Q:603:VAL:HG13	2.46	0.40
9:R:432:ILE:HD11	9:R:477:TYR:CD1	2.50	0.40
3:1:494:ASN:ND2	3:1:512:ARG:O	2.51	0.40
3:1:1199:VAL:C	3:1:1200:LEU:CG	2.95	0.40
4:G:752:ASP:OD1	4:G:755:LEU:HD22	2.21	0.40
6:L:371:LYS:H	6:L:371:LYS:CE	2.34	0.40
1:7:78:UNK:CB	9:R:473:ARG:HD2	2.51	0.40
1:8:78:UNK:CB	9:T:473:ARG:HD2	2.51	0.40
2:Y:433:ASN:HB3	2:Y:449:ASN:HD22	1.86	0.40
4:A:752:ASP:OD1	4:A:755:LEU:HD22	2.21	0.40
8:N:255:GLU:O	8:N:258:ILE:HG13	2.21	0.40
2:0:433:ASN:HB3	2:0:449:ASN:HD22	1.86	0.40
2:0:1186:LEU:HB3	2:0:1200:LEU:HD13	2.04	0.40
5:H:540:LYS:NZ	6:I:467:LEU:HD22	2.37	0.40
7:O:1385:PHE:CZ	7:O:1426:VAL:HG22	2.51	0.40
8:P:1438:ILE:HD13	8:P:1438:ILE:HA	1.91	0.40
11:X:355:TRP:CD1	11:X:400:ILE:HD13	2.34	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	
2	0	1244/1502 (83%)	1144 (92%)	65 (5%)	35 (3%)	4	24
2	Y	1244/1502 (83%)	1143 (92%)	66 (5%)	35 (3%)	4	24
3	1	1152/1391 (83%)	1077 (94%)	51 (4%)	24 (2%)	5	30
3	Z	1152/1391 (83%)	1080 (94%)	50 (4%)	22 (2%)	6	32
4	A	157/823 (19%)	151 (96%)	3 (2%)	3 (2%)	6	32
4	D	163/823 (20%)	153 (94%)	4 (2%)	6 (4%)	2	19
4	G	157/823 (19%)	151 (96%)	3 (2%)	3 (2%)	6	32
4	J	163/823 (20%)	153 (94%)	6 (4%)	4 (2%)	4	26
5	B	211/541 (39%)	178 (84%)	22 (10%)	11 (5%)	1	15
5	E	211/541 (39%)	194 (92%)	12 (6%)	5 (2%)	4	27
5	H	211/541 (39%)	180 (85%)	21 (10%)	10 (5%)	2	16
5	K	211/541 (39%)	192 (91%)	13 (6%)	6 (3%)	4	24
6	C	160/472 (34%)	150 (94%)	9 (6%)	1 (1%)	21	59
6	F	167/472 (35%)	159 (95%)	7 (4%)	1 (1%)	21	59
6	I	160/472 (34%)	150 (94%)	9 (6%)	1 (1%)	21	59
6	L	167/472 (35%)	156 (93%)	8 (5%)	3 (2%)	6	34
7	M	1655/1683 (98%)	1536 (93%)	80 (5%)	39 (2%)	4	27
7	O	1655/1683 (98%)	1533 (93%)	78 (5%)	44 (3%)	4	25
8	N	1636/1655 (99%)	1524 (93%)	86 (5%)	26 (2%)	7	38
8	P	1639/1655 (99%)	1524 (93%)	87 (5%)	28 (2%)	7	36
9	Q	785/839 (94%)	717 (91%)	55 (7%)	13 (2%)	7	36
9	R	796/839 (95%)	715 (90%)	54 (7%)	27 (3%)	3	21
9	S	785/839 (94%)	722 (92%)	51 (6%)	12 (2%)	8	40
9	T	797/839 (95%)	719 (90%)	51 (6%)	27 (3%)	3	21
10	U	90/475 (19%)	67 (74%)	18 (20%)	5 (6%)	1	14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
10	W	90/475 (19%)	67 (74%)	17 (19%)	6 (7%)	1 12
11	V	86/528 (16%)	70 (81%)	14 (16%)	2 (2%)	5 28
11	X	86/528 (16%)	71 (83%)	13 (15%)	2 (2%)	5 28
All	All	17030/25168 (68%)	15676 (92%)	953 (6%)	401 (2%)	7 27

All (401) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	Y	129	SER
2	Y	250	ALA
2	Y	289	SER
2	Y	356	ILE
2	Y	409	ALA
2	Y	431	ASN
2	Y	471	SER
2	Y	690	ASN
2	Y	766	LEU
2	Y	830	SER
2	Y	870	ALA
2	Y	1223	SER
2	Y	1380	ASP
3	Z	79	HIS
3	Z	115	ASP
3	Z	414	MET
3	Z	1230	ASP
5	B	291	GLN
5	B	309	ARG
5	B	346	GLN
5	B	434	GLU
4	D	637	LEU
4	D	639	ASP
4	D	776	PHE
7	M	360	LEU
7	M	519	ASP
7	M	1194	LEU
7	M	1260	ASN
7	M	1392	ILE
7	M	1568	VAL
7	M	1591	ASP
8	N	68	HIS
8	N	1429	HIS

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Mol	Chain	Res	Type
9	Q	33	PRO
9	Q	73	LEU
9	Q	681	SER
9	R	46	ILE
9	R	101	PRO
9	R	154	GLU
9	R	434	ASP
9	R	520	SER
9	R	549	ASP
9	R	795	GLN
10	U	356	LEU
11	V	272	ILE
2	0	129	SER
2	0	250	ALA
2	0	289	SER
2	0	356	ILE
2	0	409	ALA
2	0	431	ASN
2	0	471	SER
2	0	690	ASN
2	0	766	LEU
2	0	830	SER
2	0	870	ALA
2	0	1223	SER
2	0	1380	ASP
3	1	79	HIS
3	1	115	ASP
3	1	414	MET
3	1	497	CYS
3	1	1230	ASP
5	H	291	GLN
5	H	309	ARG
5	H	346	GLN
5	H	434	GLU
4	J	639	ASP
4	J	776	PHE
7	O	360	LEU
7	O	519	ASP
7	O	1194	LEU
7	O	1260	ASN
7	O	1375	GLY
7	O	1378	ASP

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Mol	Chain	Res	Type
7	O	1392	ILE
7	O	1558	ASP
7	O	1568	VAL
7	O	1591	ASP
8	P	68	HIS
8	P	69	ASN
8	P	1429	HIS
9	S	73	LEU
9	S	681	SER
9	T	41	SER
9	T	46	ILE
9	T	101	PRO
9	T	154	GLU
9	T	434	ASP
9	T	520	SER
9	T	549	ASP
9	T	795	GLN
10	W	356	LEU
11	X	272	ILE
2	Y	408	ARG
2	Y	871	ASN
2	Y	920	GLU
2	Y	1154	ASP
2	Y	1288	ALA
3	Z	85	LEU
3	Z	361	SER
3	Z	497	CYS
3	Z	652	ASN
3	Z	919	ILE
3	Z	1301	SER
4	A	744	ALA
4	A	752	ASP
5	B	299	TRP
5	B	305	LYS
5	B	355	PHE
4	D	754	ASN
5	E	299	TRP
5	E	317	ASN
7	M	205	ALA
7	M	373	SER
7	M	378	ALA
7	M	381	THR

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Mol	Chain	Res	Type
7	M	670	LYS
7	M	678	LEU
7	M	742	GLN
7	M	957	ALA
7	M	1036	PRO
7	M	1214	SER
7	M	1379	GLY
7	M	1505	HIS
7	M	1558	ASP
8	N	316	ILE
8	N	487	SER
8	N	608	ILE
8	N	614	ILE
9	Q	45	SER
9	Q	269	ASN
9	Q	562	LEU
9	R	85	ALA
9	R	155	VAL
9	R	169	VAL
9	R	473	ARG
9	R	612	HIS
10	U	262	ILE
2	0	408	ARG
2	0	871	ASN
2	0	920	GLU
2	0	1154	ASP
2	0	1288	ALA
3	1	85	LEU
3	1	361	SER
3	1	652	ASN
3	1	919	ILE
3	1	1301	SER
4	G	744	ALA
4	G	752	ASP
5	H	299	TRP
5	H	305	LYS
5	H	355	PHE
4	J	754	ASN
5	K	299	TRP
7	O	205	ALA
7	O	373	SER
7	O	378	ALA

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Mol	Chain	Res	Type
7	O	381	THR
7	O	670	LYS
7	O	678	LEU
7	O	742	GLN
7	O	957	ALA
7	O	989	SER
7	O	1036	PRO
7	O	1214	SER
7	O	1379	GLY
7	O	1505	HIS
8	P	316	ILE
8	P	487	SER
8	P	608	ILE
8	P	614	ILE
9	S	34	SER
9	S	45	SER
9	S	269	ASN
9	S	562	LEU
9	T	85	ALA
9	T	155	VAL
9	T	473	ARG
9	T	612	HIS
10	W	262	ILE
10	W	283	ILE
2	Y	384	GLU
2	Y	519	THR
2	Y	522	ALA
2	Y	761	LEU
2	Y	1300	LYS
3	Z	351	ARG
3	Z	493	ILE
3	Z	920	ASP
3	Z	1026	SER
3	Z	1052	ASN
3	Z	1255	SER
5	B	298	SER
5	B	327	PRO
4	D	633	ASP
4	D	755	LEU
7	M	20	PHE
7	M	62	SER
7	M	136	LYS

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Mol	Chain	Res	Type
7	M	366	ILE
7	M	368	SER
7	M	379	SER
7	M	1190	TYR
7	M	1581	THR
8	N	92	SER
8	N	236	THR
8	N	315	PRO
8	N	485	SER
8	N	978	SER
8	N	1435	ASP
8	N	1574	LYS
9	Q	204	GLU
9	R	62	ALA
9	R	105	GLU
9	R	324	ASN
9	R	419	ASP
9	R	472	SER
9	R	533	ARG
9	R	545	PHE
10	U	354	ALA
2	0	384	GLU
2	0	522	ALA
2	0	761	LEU
2	0	1300	LYS
3	1	351	ARG
3	1	920	ASP
3	1	1026	SER
3	1	1052	ASN
3	1	1255	SER
5	H	298	SER
4	J	755	LEU
5	K	317	ASN
6	L	436	LEU
6	L	437	ALA
7	O	20	PHE
7	O	62	SER
7	O	136	LYS
7	O	366	ILE
7	O	368	SER
7	O	379	SER
7	O	1190	TYR

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Mol	Chain	Res	Type
8	P	92	SER
8	P	236	THR
8	P	315	PRO
8	P	485	SER
8	P	978	SER
8	P	1435	ASP
8	P	1574	LYS
9	S	204	GLU
9	T	62	ALA
9	T	105	GLU
9	T	324	ASN
9	T	419	ASP
9	T	472	SER
9	T	533	ARG
9	T	545	PHE
10	W	354	ALA
2	Y	304	TRP
2	Y	305	PHE
2	Y	764	VAL
2	Y	865	ALA
2	Y	1088	PHE
2	Y	1287	SER
2	Y	1313	VAL
3	Z	498	ALA
3	Z	575	ARG
3	Z	1253	VAL
5	B	307	LYS
6	C	300	ASP
5	E	295	CYS
5	E	422	LEU
7	M	304	THR
7	M	1191	SER
7	M	1263	SER
7	M	1656	SER
8	N	86	ASP
8	N	94	ASP
8	N	123	ASP
8	N	273	LEU
8	N	545	GLN
9	Q	232	PHE
9	Q	405	ASP
9	Q	475	SER

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Mol	Chain	Res	Type
9	R	39	LEU
9	R	102	LYS
2	0	304	TRP
2	0	305	PHE
2	0	764	VAL
2	0	865	ALA
2	0	1088	PHE
2	0	1287	SER
2	0	1313	VAL
3	1	493	ILE
3	1	498	ALA
3	1	575	ARG
3	1	1196	ASN
3	1	1253	VAL
5	H	307	LYS
6	I	300	ASP
5	K	295	CYS
5	K	325	THR
5	K	422	LEU
7	O	304	THR
7	O	1191	SER
7	O	1263	SER
7	O	1581	THR
7	O	1656	SER
8	P	86	ASP
8	P	94	ASP
8	P	123	ASP
8	P	273	LEU
8	P	545	GLN
9	S	232	PHE
9	S	405	ASP
9	S	475	SER
9	T	102	LYS
9	T	169	VAL
2	Y	538	SER
3	Z	113	ASN
3	Z	403	ALA
4	A	705	ASP
5	B	344	SER
5	E	344	SER
6	F	352	VAL
7	M	267	SER

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Mol	Chain	Res	Type
7	M	385	SER
7	M	1129	ASN
7	M	1585	PRO
8	N	120	PRO
8	N	278	SER
8	N	293	GLU
8	N	581	THR
9	Q	447	ASP
9	R	44	VAL
9	R	59	LYS
9	R	825	PRO
10	U	261	THR
11	V	347	TYR
2	0	538	SER
3	1	113	ASN
3	1	403	ALA
3	1	1214	ASP
4	G	705	ASP
5	H	344	SER
5	K	344	SER
6	L	352	VAL
7	O	267	SER
7	O	385	SER
7	O	1129	ASN
7	O	1585	PRO
8	P	120	PRO
8	P	278	SER
8	P	293	GLU
8	P	581	THR
9	S	447	ASP
9	T	44	VAL
9	T	59	LYS
9	T	825	PRO
10	W	261	THR
11	X	347	TYR
2	Y	303	ASP
7	M	1654	ASN
8	N	290	MET
8	N	337	SER
8	N	1377	ASN
9	Q	601	PRO
9	R	521	SER

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Mol	Chain	Res	Type
9	R	674	LEU
10	U	320	SER
2	0	303	ASP
2	0	1312	ALA
7	O	988	SER
7	O	1377	VAL
7	O	1654	ASN
8	P	290	MET
8	P	337	SER
8	P	1377	ASN
9	T	521	SER
9	T	674	LEU
10	W	320	SER
7	M	1395	PRO
7	O	1395	PRO
2	Y	765	ILE
9	R	685	PRO
2	0	765	ILE
9	T	685	PRO
2	Y	468	PRO
9	Q	46	ILE
2	0	119	PRO
2	0	468	PRO
9	S	46	ILE
2	Y	119	PRO
7	M	1192	VAL
8	N	1583	VAL
7	O	1192	VAL
8	P	1583	VAL
8	P	227	ILE
3	Z	504	PRO
3	1	504	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	0	1130/1353 (84%)	1080 (96%)	50 (4%)	25	47
2	Y	1130/1353 (84%)	1081 (96%)	49 (4%)	26	47
3	1	1051/1250 (84%)	1015 (97%)	36 (3%)	32	54
3	Z	1051/1250 (84%)	1015 (97%)	36 (3%)	32	54
4	A	154/674 (23%)	145 (94%)	9 (6%)	18	40
4	D	154/674 (23%)	146 (95%)	8 (5%)	21	42
4	G	154/674 (23%)	145 (94%)	9 (6%)	18	40
4	J	155/674 (23%)	148 (96%)	7 (4%)	24	46
5	B	196/439 (45%)	180 (92%)	16 (8%)	10	31
5	E	196/439 (45%)	184 (94%)	12 (6%)	17	38
5	H	196/439 (45%)	182 (93%)	14 (7%)	13	35
5	K	196/439 (45%)	180 (92%)	16 (8%)	10	31
6	C	155/377 (41%)	149 (96%)	6 (4%)	28	49
6	F	155/377 (41%)	149 (96%)	6 (4%)	28	49
6	I	155/377 (41%)	149 (96%)	6 (4%)	28	49
6	L	155/377 (41%)	148 (96%)	7 (4%)	24	46
7	M	1518/1538 (99%)	1455 (96%)	63 (4%)	26	48
7	O	1518/1538 (99%)	1456 (96%)	62 (4%)	27	49
8	N	1538/1557 (99%)	1473 (96%)	65 (4%)	26	48
8	P	1539/1557 (99%)	1475 (96%)	64 (4%)	26	48
9	Q	590/762 (77%)	564 (96%)	26 (4%)	25	47
9	R	582/762 (76%)	558 (96%)	24 (4%)	27	49
9	S	590/762 (77%)	566 (96%)	24 (4%)	27	49
9	T	582/762 (76%)	558 (96%)	24 (4%)	27	49
10	U	80/421 (19%)	70 (88%)	10 (12%)	4	16
10	W	80/421 (19%)	68 (85%)	12 (15%)	3	12
11	V	77/477 (16%)	68 (88%)	9 (12%)	5	18
11	X	77/477 (16%)	68 (88%)	9 (12%)	5	18
All	All	15154/22200 (68%)	14475 (96%)	679 (4%)	26	46

All (679) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	Y	81	PRO
2	Y	95	MET
2	Y	101	LEU
2	Y	185	THR
2	Y	195	ILE
2	Y	201	TYR
2	Y	223	THR
2	Y	251	THR
2	Y	266	GLN
2	Y	273	ILE
2	Y	298	TYR
2	Y	311	LYS
2	Y	361	ILE
2	Y	377	ILE
2	Y	398	ILE
2	Y	423	ILE
2	Y	426	VAL
2	Y	441	VAL
2	Y	468	PRO
2	Y	490	LYS
2	Y	502	SER
2	Y	503	GLU
2	Y	516	LEU
2	Y	520	THR
2	Y	524	THR
2	Y	571	THR
2	Y	618	THR
2	Y	627	GLU
2	Y	761	LEU
2	Y	945	VAL
2	Y	955	PRO
2	Y	958	LYS
2	Y	1018	LEU
2	Y	1070	ILE
2	Y	1129	ASN
2	Y	1130	GLN
2	Y	1133	ILE
2	Y	1139	VAL
2	Y	1144	LYS
2	Y	1171	GLU
2	Y	1179	THR
2	Y	1184	PRO
2	Y	1196	ILE

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Mol	Chain	Res	Type
2	Y	1252	LYS
2	Y	1304	THR
2	Y	1436	THR
2	Y	1478	LYS
2	Y	1484	ILE
2	Y	1488	VAL
3	Z	159	ILE
3	Z	163	MET
3	Z	249	THR
3	Z	301	LYS
3	Z	369	THR
3	Z	374	VAL
3	Z	414	MET
3	Z	447	LYS
3	Z	493	ILE
3	Z	512	ARG
3	Z	575	ARG
3	Z	582	THR
3	Z	662	LEU
3	Z	664	PHE
3	Z	715	LEU
3	Z	739	LYS
3	Z	740	MET
3	Z	745	ILE
3	Z	759	ILE
3	Z	789	ASP
3	Z	860	LYS
3	Z	918	MET
3	Z	919	ILE
3	Z	920	ASP
3	Z	922	LYS
3	Z	978	ASN
3	Z	1082	PRO
3	Z	1136	ARG
3	Z	1150	LYS
3	Z	1274	LYS
3	Z	1277	ARG
3	Z	1299	LYS
3	Z	1316	VAL
3	Z	1338	LEU
3	Z	1367	LYS
3	Z	1384	LYS

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Mol	Chain	Res	Type
4	A	638	ASP
4	A	648	LEU
4	A	655	PHE
4	A	695	GLN
4	A	704	GLN
4	A	717	LYS
4	A	794	ILE
4	A	795	LYS
4	A	816	LYS
5	B	287	GLN
5	B	299	TRP
5	B	317	ASN
5	B	322	ILE
5	B	323	LEU
5	B	345	PRO
5	B	364	VAL
5	B	394	THR
5	B	436	MET
5	B	444	LEU
5	B	460	TRP
5	B	462	ARG
5	B	465	ILE
5	B	471	LYS
5	B	523	LEU
5	B	529	LYS
6	C	304	LEU
6	C	307	SER
6	C	369	LEU
6	C	448	THR
6	C	451	MET
6	C	462	GLN
4	D	637	LEU
4	D	645	THR
4	D	690	GLN
4	D	695	GLN
4	D	765	LEU
4	D	776	PHE
4	D	794	ILE
4	D	795	LYS
5	E	293	LEU
5	E	294	LYS
5	E	304	THR

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Mol	Chain	Res	Type
5	E	331	LEU
5	E	371	GLN
5	E	384	THR
5	E	417	THR
5	E	423	LYS
5	E	435	LYS
5	E	446	ARG
5	E	455	LYS
5	E	463	LEU
6	F	353	LEU
6	F	374	GLN
6	F	439	ILE
6	F	443	VAL
6	F	456	ARG
6	F	457	ILE
7	M	38	ASN
7	M	101	ASN
7	M	180	LYS
7	M	286	ILE
7	M	295	ARG
7	M	303	LYS
7	M	309	PRO
7	M	331	ILE
7	M	332	VAL
7	M	333	GLU
7	M	334	GLN
7	M	340	LEU
7	M	363	ASP
7	M	364	GLU
7	M	420	THR
7	M	451	THR
7	M	515	SER
7	M	573	ASN
7	M	590	ILE
7	M	602	ASN
7	M	683	SER
7	M	697	THR
7	M	702	LYS
7	M	764	VAL
7	M	800	ILE
7	M	852	SER
7	M	879	GLN

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Mol	Chain	Res	Type
7	M	909	LEU
7	M	910	ARG
7	M	990	ILE
7	M	991	THR
7	M	1013	TYR
7	M	1036	PRO
7	M	1129	ASN
7	M	1186	SER
7	M	1189	MET
7	M	1225	GLN
7	M	1227	THR
7	M	1323	THR
7	M	1343	ILE
7	M	1348	THR
7	M	1380	ARG
7	M	1386	LYS
7	M	1387	THR
7	M	1389	ILE
7	M	1390	GLN
7	M	1396	LEU
7	M	1418	SER
7	M	1435	LYS
7	M	1436	LYS
7	M	1440	ILE
7	M	1527	ARG
7	M	1532	ARG
7	M	1576	LEU
7	M	1577	LYS
7	M	1581	THR
7	M	1582	LEU
7	M	1583	ASP
7	M	1584	ASN
7	M	1595	VAL
7	M	1629	LEU
7	M	1635	ARG
7	M	1652	LYS
8	N	49	THR
8	N	55	LEU
8	N	59	ARG
8	N	61	ASN
8	N	62	VAL
8	N	63	THR

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Mol	Chain	Res	Type
8	N	64	SER
8	N	69	ASN
8	N	202	THR
8	N	233	SER
8	N	270	ILE
8	N	275	LEU
8	N	277	THR
8	N	289	TYR
8	N	292	THR
8	N	293	GLU
8	N	294	THR
8	N	297	THR
8	N	305	ASP
8	N	308	THR
8	N	311	VAL
8	N	313	GLU
8	N	316	ILE
8	N	336	GLN
8	N	340	SER
8	N	376	THR
8	N	380	THR
8	N	508	PRO
8	N	529	LEU
8	N	536	GLN
8	N	538	GLN
8	N	602	VAL
8	N	615	LEU
8	N	620	ASN
8	N	728	ILE
8	N	738	ILE
8	N	789	GLN
8	N	803	LEU
8	N	827	PRO
8	N	833	LYS
8	N	862	ARG
8	N	958	THR
8	N	965	ASP
8	N	980	LYS
8	N	991	LYS
8	N	1061	THR
8	N	1070	LYS
8	N	1129	LYS

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Mol	Chain	Res	Type
8	N	1176	PRO
8	N	1184	LYS
8	N	1188	THR
8	N	1216	LYS
8	N	1236	LEU
8	N	1248	THR
8	N	1270	LYS
8	N	1356	LEU
8	N	1369	THR
8	N	1441	GLN
8	N	1527	LYS
8	N	1574	LYS
8	N	1583	VAL
8	N	1630	GLU
8	N	1631	SER
8	N	1633	ARG
8	N	1653	LYS
9	Q	211	LYS
9	Q	220	PHE
9	Q	325	LEU
9	Q	333	ILE
9	Q	351	GLN
9	Q	419	ASP
9	Q	458	SER
9	Q	496	TYR
9	Q	524	LEU
9	Q	537	ILE
9	Q	562	LEU
9	Q	574	GLU
9	Q	580	VAL
9	Q	592	LYS
9	Q	593	ILE
9	Q	603	VAL
9	Q	609	PRO
9	Q	629	ARG
9	Q	637	ILE
9	Q	670	LEU
9	Q	703	SER
9	Q	721	SER
9	Q	755	LYS
9	Q	778	THR
9	Q	798	THR

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Mol	Chain	Res	Type
9	Q	807	LYS
9	R	205	ASN
9	R	350	LEU
9	R	409	LEU
9	R	421	SER
9	R	428	VAL
9	R	432	ILE
9	R	433	GLU
9	R	434	ASP
9	R	520	SER
9	R	522	THR
9	R	567	THR
9	R	593	ILE
9	R	614	ARG
9	R	637	ILE
9	R	670	LEU
9	R	671	ASP
9	R	672	GLN
9	R	674	LEU
9	R	678	ASP
9	R	680	ASN
9	R	683	THR
9	R	684	ASN
9	R	798	THR
9	R	823	ARG
10	U	253	ILE
10	U	254	ILE
10	U	260	GLU
10	U	309	THR
10	U	317	THR
10	U	320	SER
10	U	321	GLU
10	U	324	LYS
10	U	338	THR
10	U	343	VAL
11	V	272	ILE
11	V	273	VAL
11	V	295	MET
11	V	300	VAL
11	V	354	SER
11	V	376	ILE
11	V	385	ILE

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Mol	Chain	Res	Type
11	V	399	LYS
11	V	401	ASP
2	0	81	PRO
2	0	95	MET
2	0	101	LEU
2	0	113	HIS
2	0	185	THR
2	0	195	ILE
2	0	201	TYR
2	0	223	THR
2	0	251	THR
2	0	266	GLN
2	0	273	ILE
2	0	298	TYR
2	0	311	LYS
2	0	361	ILE
2	0	377	ILE
2	0	398	ILE
2	0	423	ILE
2	0	426	VAL
2	0	441	VAL
2	0	468	PRO
2	0	490	LYS
2	0	502	SER
2	0	503	GLU
2	0	516	LEU
2	0	517	LEU
2	0	524	THR
2	0	571	THR
2	0	618	THR
2	0	627	GLU
2	0	761	LEU
2	0	945	VAL
2	0	955	PRO
2	0	958	LYS
2	0	1018	LEU
2	0	1070	ILE
2	0	1129	ASN
2	0	1130	GLN
2	0	1133	ILE
2	0	1139	VAL
2	0	1144	LYS

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Mol	Chain	Res	Type
2	0	1171	GLU
2	0	1179	THR
2	0	1184	PRO
2	0	1196	ILE
2	0	1252	LYS
2	0	1304	THR
2	0	1436	THR
2	0	1478	LYS
2	0	1484	ILE
2	0	1488	VAL
3	1	159	ILE
3	1	163	MET
3	1	213	THR
3	1	249	THR
3	1	301	LYS
3	1	369	THR
3	1	374	VAL
3	1	414	MET
3	1	447	LYS
3	1	512	ARG
3	1	575	ARG
3	1	582	THR
3	1	662	LEU
3	1	664	PHE
3	1	715	LEU
3	1	739	LYS
3	1	740	MET
3	1	745	ILE
3	1	759	ILE
3	1	789	ASP
3	1	860	LYS
3	1	918	MET
3	1	919	ILE
3	1	920	ASP
3	1	922	LYS
3	1	978	ASN
3	1	1082	PRO
3	1	1136	ARG
3	1	1150	LYS
3	1	1274	LYS
3	1	1277	ARG
3	1	1299	LYS

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Mol	Chain	Res	Type
3	1	1316	VAL
3	1	1338	LEU
3	1	1367	LYS
3	1	1384	LYS
4	G	638	ASP
4	G	648	LEU
4	G	655	PHE
4	G	695	GLN
4	G	704	GLN
4	G	717	LYS
4	G	794	ILE
4	G	795	LYS
4	G	816	LYS
5	H	287	GLN
5	H	299	TRP
5	H	322	ILE
5	H	345	PRO
5	H	364	VAL
5	H	394	THR
5	H	436	MET
5	H	444	LEU
5	H	460	TRP
5	H	462	ARG
5	H	465	ILE
5	H	471	LYS
5	H	523	LEU
5	H	529	LYS
6	I	304	LEU
6	I	307	SER
6	I	376	LYS
6	I	448	THR
6	I	451	MET
6	I	462	GLN
4	J	645	THR
4	J	690	GLN
4	J	695	GLN
4	J	765	LEU
4	J	776	PHE
4	J	794	ILE
4	J	795	LYS
5	K	293	LEU
5	K	294	LYS

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Mol	Chain	Res	Type
5	K	304	THR
5	K	316	VAL
5	K	319	THR
5	K	323	LEU
5	K	331	LEU
5	K	369	VAL
5	K	371	GLN
5	K	384	THR
5	K	417	THR
5	K	423	LYS
5	K	435	LYS
5	K	446	ARG
5	K	455	LYS
5	K	463	LEU
6	L	353	LEU
6	L	371	LYS
6	L	374	GLN
6	L	439	ILE
6	L	443	VAL
6	L	456	ARG
6	L	457	ILE
7	O	38	ASN
7	O	101	ASN
7	O	180	LYS
7	O	286	ILE
7	O	295	ARG
7	O	303	LYS
7	O	309	PRO
7	O	331	ILE
7	O	332	VAL
7	O	333	GLU
7	O	334	GLN
7	O	340	LEU
7	O	363	ASP
7	O	364	GLU
7	O	420	THR
7	O	451	THR
7	O	515	SER
7	O	573	ASN
7	O	590	ILE
7	O	602	ASN
7	O	683	SER

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Mol	Chain	Res	Type
7	O	697	THR
7	O	702	LYS
7	O	764	VAL
7	O	800	ILE
7	O	852	SER
7	O	879	GLN
7	O	909	LEU
7	O	910	ARG
7	O	991	THR
7	O	1013	TYR
7	O	1036	PRO
7	O	1129	ASN
7	O	1186	SER
7	O	1189	MET
7	O	1225	GLN
7	O	1227	THR
7	O	1323	THR
7	O	1343	ILE
7	O	1348	THR
7	O	1382	TYR
7	O	1386	LYS
7	O	1387	THR
7	O	1389	ILE
7	O	1390	GLN
7	O	1396	LEU
7	O	1418	SER
7	O	1435	LYS
7	O	1436	LYS
7	O	1440	ILE
7	O	1527	ARG
7	O	1532	ARG
7	O	1576	LEU
7	O	1577	LYS
7	O	1581	THR
7	O	1582	LEU
7	O	1583	ASP
7	O	1584	ASN
7	O	1595	VAL
7	O	1629	LEU
7	O	1635	ARG
7	O	1652	LYS
8	P	49	THR

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Mol	Chain	Res	Type
8	P	55	LEU
8	P	59	ARG
8	P	61	ASN
8	P	62	VAL
8	P	202	THR
8	P	233	SER
8	P	258	ILE
8	P	270	ILE
8	P	275	LEU
8	P	277	THR
8	P	289	TYR
8	P	290	MET
8	P	292	THR
8	P	293	GLU
8	P	294	THR
8	P	297	THR
8	P	305	ASP
8	P	308	THR
8	P	311	VAL
8	P	313	GLU
8	P	316	ILE
8	P	336	GLN
8	P	340	SER
8	P	376	THR
8	P	380	THR
8	P	450	THR
8	P	508	PRO
8	P	536	GLN
8	P	538	GLN
8	P	602	VAL
8	P	615	LEU
8	P	620	ASN
8	P	728	ILE
8	P	738	ILE
8	P	789	GLN
8	P	803	LEU
8	P	827	PRO
8	P	833	LYS
8	P	862	ARG
8	P	958	THR
8	P	965	ASP
8	P	980	LYS

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Mol	Chain	Res	Type
8	P	991	LYS
8	P	1061	THR
8	P	1070	LYS
8	P	1129	LYS
8	P	1176	PRO
8	P	1184	LYS
8	P	1188	THR
8	P	1216	LYS
8	P	1236	LEU
8	P	1248	THR
8	P	1270	LYS
8	P	1356	LEU
8	P	1369	THR
8	P	1441	GLN
8	P	1527	LYS
8	P	1574	LYS
8	P	1583	VAL
8	P	1630	GLU
8	P	1631	SER
8	P	1633	ARG
8	P	1653	LYS
9	S	211	LYS
9	S	220	PHE
9	S	325	LEU
9	S	333	ILE
9	S	351	GLN
9	S	419	ASP
9	S	458	SER
9	S	496	TYR
9	S	524	LEU
9	S	537	ILE
9	S	562	LEU
9	S	580	VAL
9	S	592	LYS
9	S	593	ILE
9	S	609	PRO
9	S	629	ARG
9	S	637	ILE
9	S	670	LEU
9	S	703	SER
9	S	721	SER
9	S	755	LYS

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Mol	Chain	Res	Type
9	S	778	THR
9	S	798	THR
9	S	807	LYS
9	T	205	ASN
9	T	350	LEU
9	T	409	LEU
9	T	421	SER
9	T	428	VAL
9	T	432	ILE
9	T	433	GLU
9	T	434	ASP
9	T	520	SER
9	T	522	THR
9	T	567	THR
9	T	593	ILE
9	T	614	ARG
9	T	637	ILE
9	T	670	LEU
9	T	671	ASP
9	T	672	GLN
9	T	674	LEU
9	T	678	ASP
9	T	680	ASN
9	T	683	THR
9	T	684	ASN
9	T	798	THR
9	T	823	ARG
10	W	253	ILE
10	W	254	ILE
10	W	260	GLU
10	W	262	ILE
10	W	283	ILE
10	W	309	THR
10	W	317	THR
10	W	320	SER
10	W	321	GLU
10	W	324	LYS
10	W	338	THR
10	W	343	VAL
11	X	272	ILE
11	X	273	VAL
11	X	295	MET

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Mol	Chain	Res	Type
11	X	300	VAL
11	X	354	SER
11	X	376	ILE
11	X	385	ILE
11	X	399	LYS
11	X	401	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (522) such sidechains are listed below:

Mol	Chain	Res	Type
2	Y	89	HIS
2	Y	110	HIS
2	Y	112	GLN
2	Y	128	ASN
2	Y	180	ASN
2	Y	199	ASN
2	Y	306	ASN
2	Y	449	ASN
2	Y	478	GLN
2	Y	483	HIS
2	Y	486	GLN
2	Y	573	GLN
2	Y	574	HIS
2	Y	850	ASN
2	Y	901	GLN
2	Y	1009	HIS
2	Y	1020	ASN
2	Y	1086	ASN
2	Y	1096	GLN
2	Y	1130	GLN
2	Y	1135	ASN
2	Y	1158	HIS
2	Y	1160	HIS
2	Y	1224	ASN
2	Y	1240	ASN
2	Y	1251	GLN
2	Y	1263	GLN
2	Y	1272	GLN
2	Y	1369	ASN
2	Y	1396	ASN
2	Y	1453	HIS
2	Y	1481	ASN

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Mol	Chain	Res	Type
3	Z	99	GLN
3	Z	141	GLN
3	Z	142	GLN
3	Z	153	GLN
3	Z	170	ASN
3	Z	186	ASN
3	Z	212	ASN
3	Z	238	ASN
3	Z	242	HIS
3	Z	245	ASN
3	Z	259	ASN
3	Z	271	GLN
3	Z	349	GLN
3	Z	355	HIS
3	Z	395	ASN
3	Z	417	ASN
3	Z	494	ASN
3	Z	550	ASN
3	Z	578	ASN
3	Z	584	GLN
3	Z	909	HIS
3	Z	914	GLN
3	Z	978	ASN
3	Z	979	GLN
3	Z	981	GLN
3	Z	1056	HIS
3	Z	1175	ASN
3	Z	1267	ASN
3	Z	1286	HIS
3	Z	1352	GLN
3	Z	1375	ASN
3	Z	1387	HIS
4	A	654	HIS
4	A	695	GLN
4	A	709	ASN
4	A	713	ASN
4	A	742	GLN
4	A	749	GLN
4	A	770	ASN
4	A	771	ASN
4	A	792	GLN
4	A	800	HIS

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Mol	Chain	Res	Type
4	A	817	GLN
5	B	317	ASN
5	B	329	HIS
5	B	362	ASN
5	B	368	ASN
5	B	387	GLN
5	B	388	GLN
5	B	441	GLN
6	C	272	GLN
6	C	279	GLN
6	C	282	GLN
6	C	287	GLN
6	C	328	GLN
6	C	374	GLN
6	C	462	GLN
4	D	675	GLN
4	D	690	GLN
4	D	777	ASN
4	D	792	GLN
4	D	800	HIS
4	D	810	ASN
5	E	314	ASN
5	E	351	GLN
5	E	362	ASN
5	E	371	GLN
5	E	402	GLN
5	E	472	ASN
5	E	515	ASN
5	E	516	GLN
5	E	517	GLN
5	E	539	ASN
6	F	275	GLN
6	F	293	HIS
6	F	301	HIS
6	F	378	HIS
6	F	399	ASN
7	M	9	GLN
7	M	45	ASN
7	M	100	ASN
7	M	115	GLN
7	M	122	ASN
7	M	160	GLN

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Mol	Chain	Res	Type
7	M	163	ASN
7	M	177	GLN
7	M	195	GLN
7	M	258	GLN
7	M	334	GLN
7	M	359	GLN
7	M	414	ASN
7	M	426	GLN
7	M	440	GLN
7	M	506	ASN
7	M	539	ASN
7	M	560	GLN
7	M	571	ASN
7	M	577	HIS
7	M	587	HIS
7	M	711	GLN
7	M	714	HIS
7	M	720	HIS
7	M	742	GLN
7	M	805	ASN
7	M	814	ASN
7	M	817	ASN
7	M	829	ASN
7	M	842	ASN
7	M	873	ASN
7	M	893	HIS
7	M	907	HIS
7	M	953	ASN
7	M	1021	HIS
7	M	1027	GLN
7	M	1030	ASN
7	M	1037	ASN
7	M	1123	ASN
7	M	1202	ASN
7	M	1235	ASN
7	M	1285	HIS
7	M	1299	ASN
7	M	1308	GLN
7	M	1393	ASN
7	M	1468	ASN
7	M	1494	ASN
7	M	1542	ASN

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Mol	Chain	Res	Type
7	M	1584	ASN
7	M	1619	ASN
7	M	1631	ASN
7	M	1680	GLN
8	N	39	GLN
8	N	42	GLN
8	N	47	ASN
8	N	56	ASN
8	N	69	ASN
8	N	80	GLN
8	N	97	HIS
8	N	119	ASN
8	N	150	GLN
8	N	162	HIS
8	N	190	GLN
8	N	193	GLN
8	N	201	ASN
8	N	248	GLN
8	N	336	GLN
8	N	356	HIS
8	N	363	ASN
8	N	418	ASN
8	N	534	GLN
8	N	539	GLN
8	N	540	GLN
8	N	542	ASN
8	N	545	GLN
8	N	570	GLN
8	N	677	ASN
8	N	692	ASN
8	N	748	HIS
8	N	760	ASN
8	N	770	HIS
8	N	780	HIS
8	N	788	HIS
8	N	804	GLN
8	N	829	ASN
8	N	849	ASN
8	N	850	ASN
8	N	880	ASN
8	N	899	GLN
8	N	975	GLN

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Mol	Chain	Res	Type
8	N	1029	ASN
8	N	1041	ASN
8	N	1111	HIS
8	N	1119	ASN
8	N	1123	HIS
8	N	1174	ASN
8	N	1193	ASN
8	N	1198	ASN
8	N	1232	HIS
8	N	1249	GLN
8	N	1306	ASN
8	N	1360	ASN
8	N	1397	ASN
8	N	1429	HIS
8	N	1462	ASN
8	N	1479	GLN
8	N	1480	GLN
8	N	1509	GLN
8	N	1552	ASN
8	N	1553	GLN
8	N	1565	ASN
8	N	1567	GLN
8	N	1575	ASN
8	N	1625	GLN
9	Q	227	GLN
9	Q	252	GLN
9	Q	280	GLN
9	Q	293	ASN
9	Q	303	ASN
9	Q	351	GLN
9	Q	439	HIS
9	Q	573	HIS
9	Q	612	HIS
9	Q	699	ASN
9	Q	707	HIS
9	Q	719	ASN
9	Q	766	ASN
9	Q	770	ASN
9	Q	790	ASN
9	Q	812	GLN
9	R	221	GLN
9	R	224	ASN

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Mol	Chain	Res	Type
9	R	252	GLN
9	R	280	GLN
9	R	301	ASN
9	R	356	ASN
9	R	396	GLN
9	R	450	ASN
9	R	480	GLN
9	R	505	HIS
9	R	540	ASN
9	R	608	GLN
9	R	707	HIS
9	R	719	ASN
9	R	733	GLN
9	R	762	ASN
9	R	770	ASN
9	R	773	ASN
9	R	802	GLN
9	R	808	ASN
9	R	821	GLN
10	U	329	GLN
10	U	336	ASN
11	V	293	HIS
11	V	390	ASN
11	V	394	GLN
2	0	110	HIS
2	0	112	GLN
2	0	128	ASN
2	0	180	ASN
2	0	199	ASN
2	0	306	ASN
2	0	449	ASN
2	0	478	GLN
2	0	483	HIS
2	0	486	GLN
2	0	573	GLN
2	0	574	HIS
2	0	850	ASN
2	0	901	GLN
2	0	1009	HIS
2	0	1020	ASN
2	0	1086	ASN
2	0	1096	GLN

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Mol	Chain	Res	Type
2	0	1130	GLN
2	0	1135	ASN
2	0	1158	HIS
2	0	1160	HIS
2	0	1224	ASN
2	0	1240	ASN
2	0	1251	GLN
2	0	1263	GLN
2	0	1272	GLN
2	0	1369	ASN
2	0	1396	ASN
2	0	1453	HIS
2	0	1481	ASN
3	1	141	GLN
3	1	142	GLN
3	1	153	GLN
3	1	170	ASN
3	1	186	ASN
3	1	238	ASN
3	1	242	HIS
3	1	245	ASN
3	1	259	ASN
3	1	271	GLN
3	1	349	GLN
3	1	355	HIS
3	1	395	ASN
3	1	417	ASN
3	1	418	ASN
3	1	494	ASN
3	1	550	ASN
3	1	578	ASN
3	1	584	GLN
3	1	909	HIS
3	1	914	GLN
3	1	978	ASN
3	1	979	GLN
3	1	981	GLN
3	1	1056	HIS
3	1	1175	ASN
3	1	1267	ASN
3	1	1286	HIS
3	1	1352	GLN

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Mol	Chain	Res	Type
3	1	1375	ASN
3	1	1387	HIS
4	G	654	HIS
4	G	695	GLN
4	G	709	ASN
4	G	742	GLN
4	G	749	GLN
4	G	770	ASN
4	G	771	ASN
4	G	800	HIS
4	G	817	GLN
5	H	317	ASN
5	H	329	HIS
5	H	362	ASN
5	H	368	ASN
5	H	387	GLN
5	H	388	GLN
5	H	441	GLN
5	H	517	GLN
6	I	279	GLN
6	I	282	GLN
6	I	287	GLN
6	I	328	GLN
6	I	374	GLN
6	I	461	HIS
6	I	462	GLN
4	J	675	GLN
4	J	690	GLN
4	J	777	ASN
4	J	792	GLN
4	J	800	HIS
4	J	810	ASN
5	K	317	ASN
5	K	351	GLN
5	K	362	ASN
5	K	365	GLN
5	K	371	GLN
5	K	402	GLN
5	K	472	ASN
5	K	515	ASN
5	K	517	GLN
5	K	539	ASN

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Mol	Chain	Res	Type
6	L	275	GLN
6	L	293	HIS
6	L	301	HIS
6	L	374	GLN
6	L	399	ASN
7	O	9	GLN
7	O	45	ASN
7	O	100	ASN
7	O	115	GLN
7	O	122	ASN
7	O	160	GLN
7	O	163	ASN
7	O	177	GLN
7	O	195	GLN
7	O	258	GLN
7	O	334	GLN
7	O	359	GLN
7	O	414	ASN
7	O	426	GLN
7	O	440	GLN
7	O	506	ASN
7	O	539	ASN
7	O	560	GLN
7	O	571	ASN
7	O	577	HIS
7	O	587	HIS
7	O	711	GLN
7	O	714	HIS
7	O	720	HIS
7	O	742	GLN
7	O	814	ASN
7	O	817	ASN
7	O	829	ASN
7	O	842	ASN
7	O	873	ASN
7	O	893	HIS
7	O	907	HIS
7	O	953	ASN
7	O	1021	HIS
7	O	1027	GLN
7	O	1030	ASN
7	O	1037	ASN

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Mol	Chain	Res	Type
7	O	1123	ASN
7	O	1202	ASN
7	O	1285	HIS
7	O	1299	ASN
7	O	1308	GLN
7	O	1468	ASN
7	O	1494	ASN
7	O	1542	ASN
7	O	1584	ASN
7	O	1619	ASN
7	O	1631	ASN
7	O	1680	GLN
8	P	39	GLN
8	P	42	GLN
8	P	47	ASN
8	P	50	ASN
8	P	56	ASN
8	P	80	GLN
8	P	119	ASN
8	P	150	GLN
8	P	162	HIS
8	P	190	GLN
8	P	193	GLN
8	P	201	ASN
8	P	248	GLN
8	P	336	GLN
8	P	356	HIS
8	P	363	ASN
8	P	418	ASN
8	P	539	GLN
8	P	540	GLN
8	P	542	ASN
8	P	545	GLN
8	P	570	GLN
8	P	677	ASN
8	P	692	ASN
8	P	745	HIS
8	P	748	HIS
8	P	760	ASN
8	P	770	HIS
8	P	780	HIS
8	P	788	HIS

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Mol	Chain	Res	Type
8	P	804	GLN
8	P	849	ASN
8	P	850	ASN
8	P	880	ASN
8	P	899	GLN
8	P	975	GLN
8	P	1029	ASN
8	P	1041	ASN
8	P	1111	HIS
8	P	1119	ASN
8	P	1123	HIS
8	P	1174	ASN
8	P	1193	ASN
8	P	1198	ASN
8	P	1232	HIS
8	P	1249	GLN
8	P	1306	ASN
8	P	1360	ASN
8	P	1397	ASN
8	P	1429	HIS
8	P	1462	ASN
8	P	1479	GLN
8	P	1480	GLN
8	P	1509	GLN
8	P	1552	ASN
8	P	1553	GLN
8	P	1565	ASN
8	P	1567	GLN
8	P	1625	GLN
9	S	227	GLN
9	S	252	GLN
9	S	280	GLN
9	S	293	ASN
9	S	303	ASN
9	S	351	GLN
9	S	439	HIS
9	S	573	HIS
9	S	612	HIS
9	S	699	ASN
9	S	707	HIS
9	S	719	ASN
9	S	766	ASN

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Mol	Chain	Res	Type
9	S	770	ASN
9	S	790	ASN
9	S	812	GLN
9	T	221	GLN
9	T	224	ASN
9	T	252	GLN
9	T	280	GLN
9	T	301	ASN
9	T	356	ASN
9	T	396	GLN
9	T	450	ASN
9	T	480	GLN
9	T	505	HIS
9	T	540	ASN
9	T	608	GLN
9	T	707	HIS
9	T	719	ASN
9	T	733	GLN
9	T	762	ASN
9	T	770	ASN
9	T	773	ASN
9	T	802	GLN
9	T	808	ASN
11	X	282	ASN
11	X	293	HIS
11	X	361	ASN
11	X	390	ASN
11	X	394	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
9	S	1
9	Q	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	S	101:PRO	C	114:LYS	N	33.71
1	Q	101:PRO	C	114:LYS	N	32.23

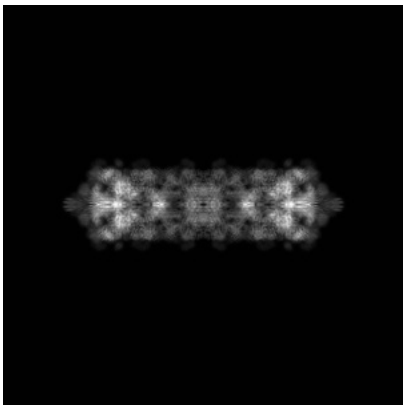
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-41300. These allow visual inspection of the internal detail of the map and identification of artifacts.

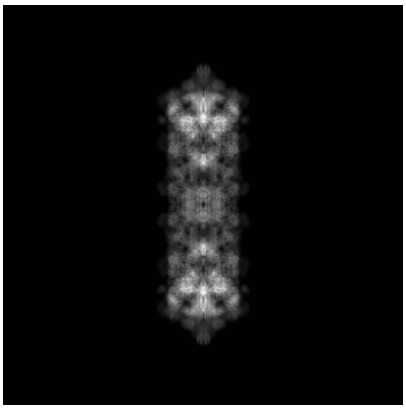
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

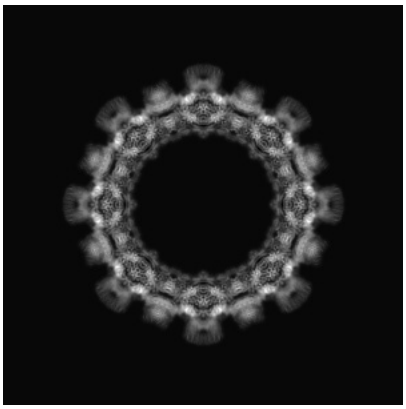
6.1.1 Primary map



X

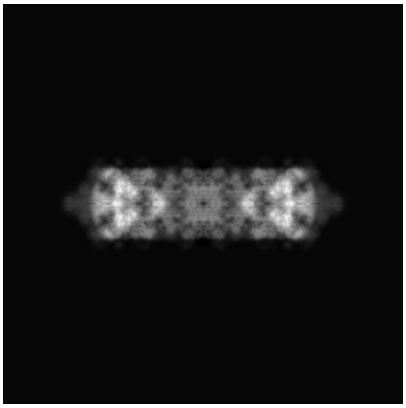


Y

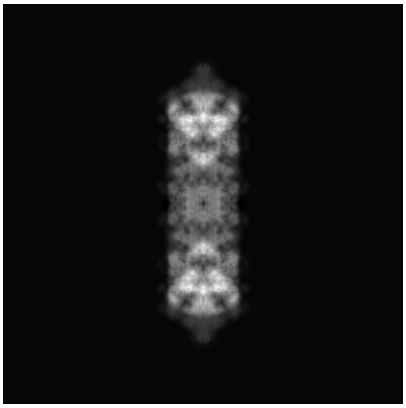


Z

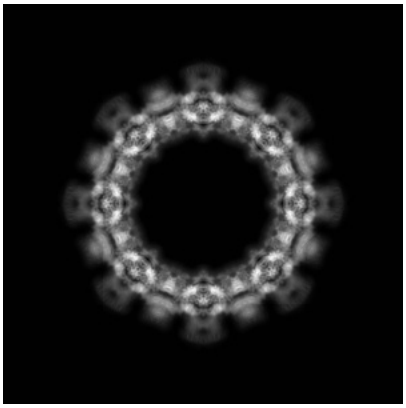
6.1.2 Raw map



X



Y

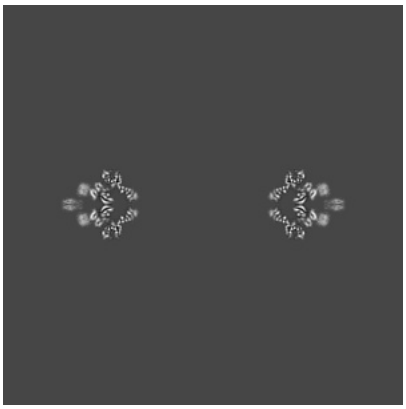


Z

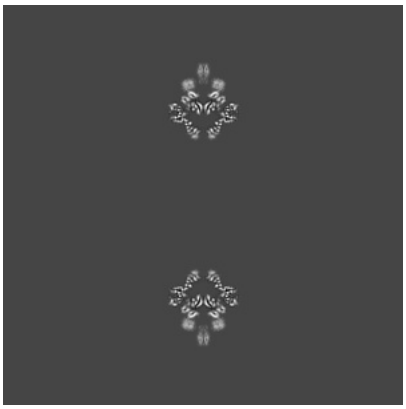
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

6.2.1 Primary map



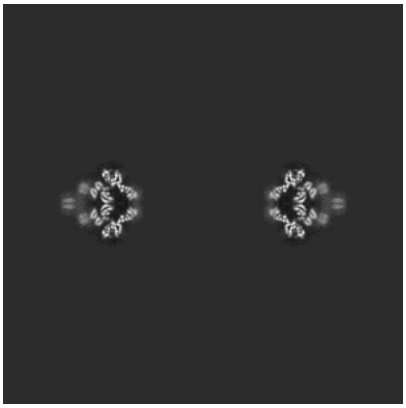
X Index: 240



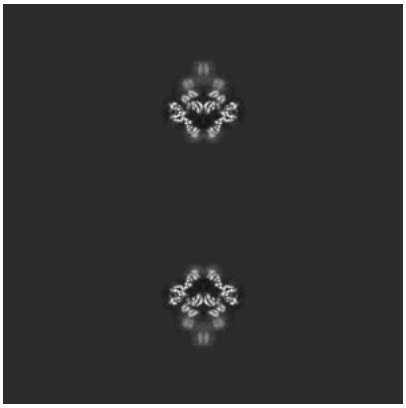
Y Index: 240

Z Index: 240

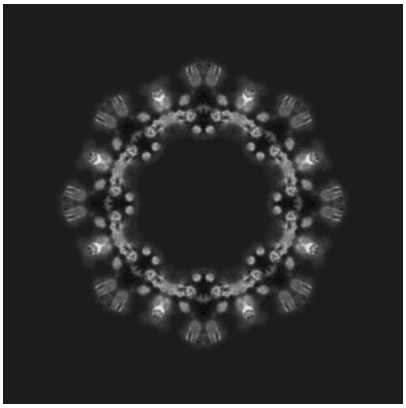
6.2.2 Raw map



X Index: 240



Y Index: 240

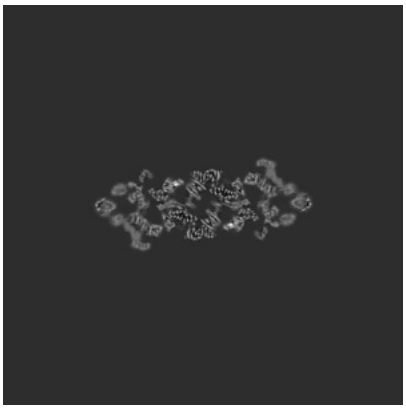


Z Index: 240

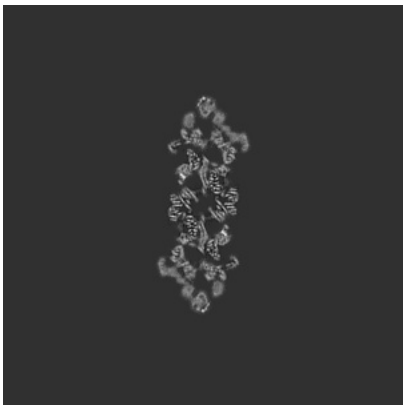
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

6.3.1 Primary map



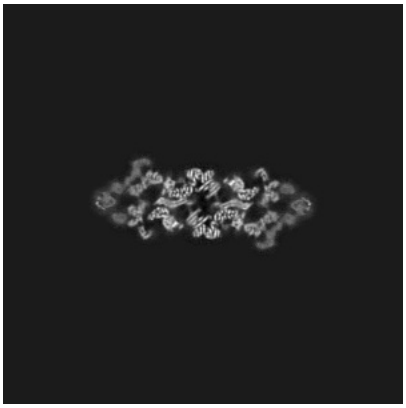
X Index: 139



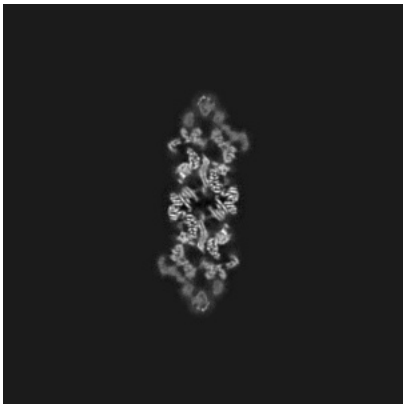
Y Index: 340

Z Index: 238

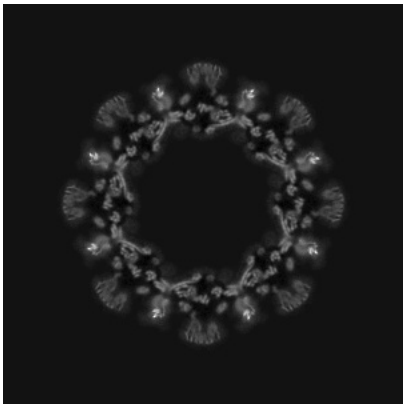
6.3.2 Raw map



X Index: 340



Y Index: 340

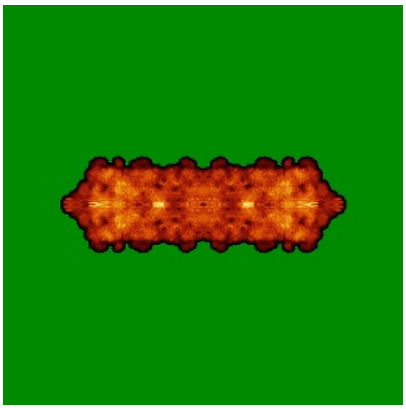


Z Index: 242

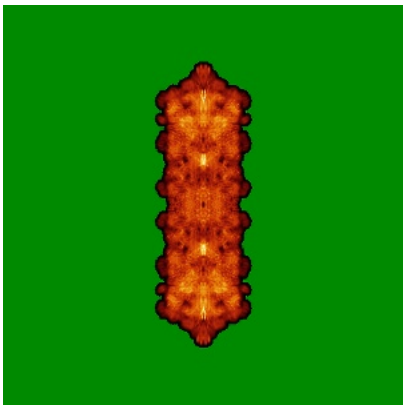
The images above show the largest variance slices of the map in three orthogonal directions.

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

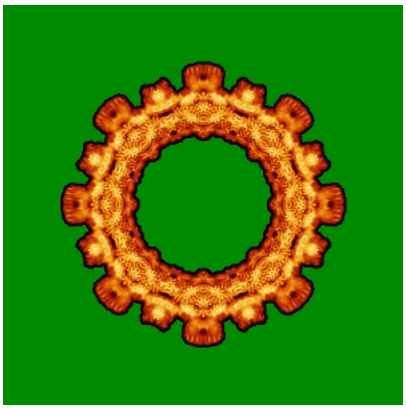
6.4.1 Primary map



X

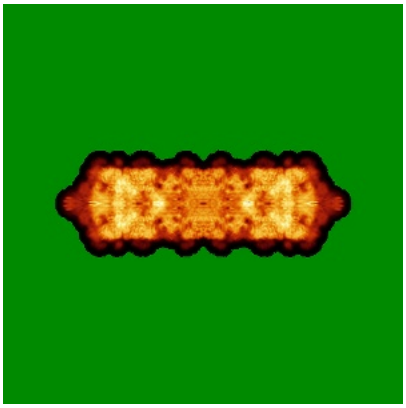


Y

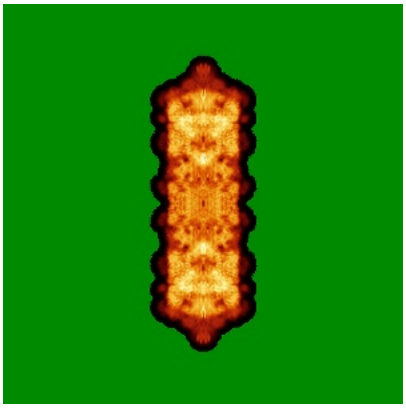


Z

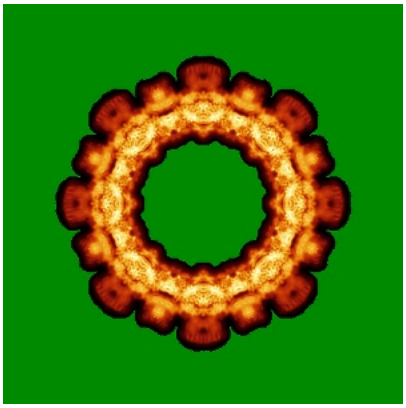
6.4.2 Raw map



X



Y



Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.65. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map

X Y Z

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

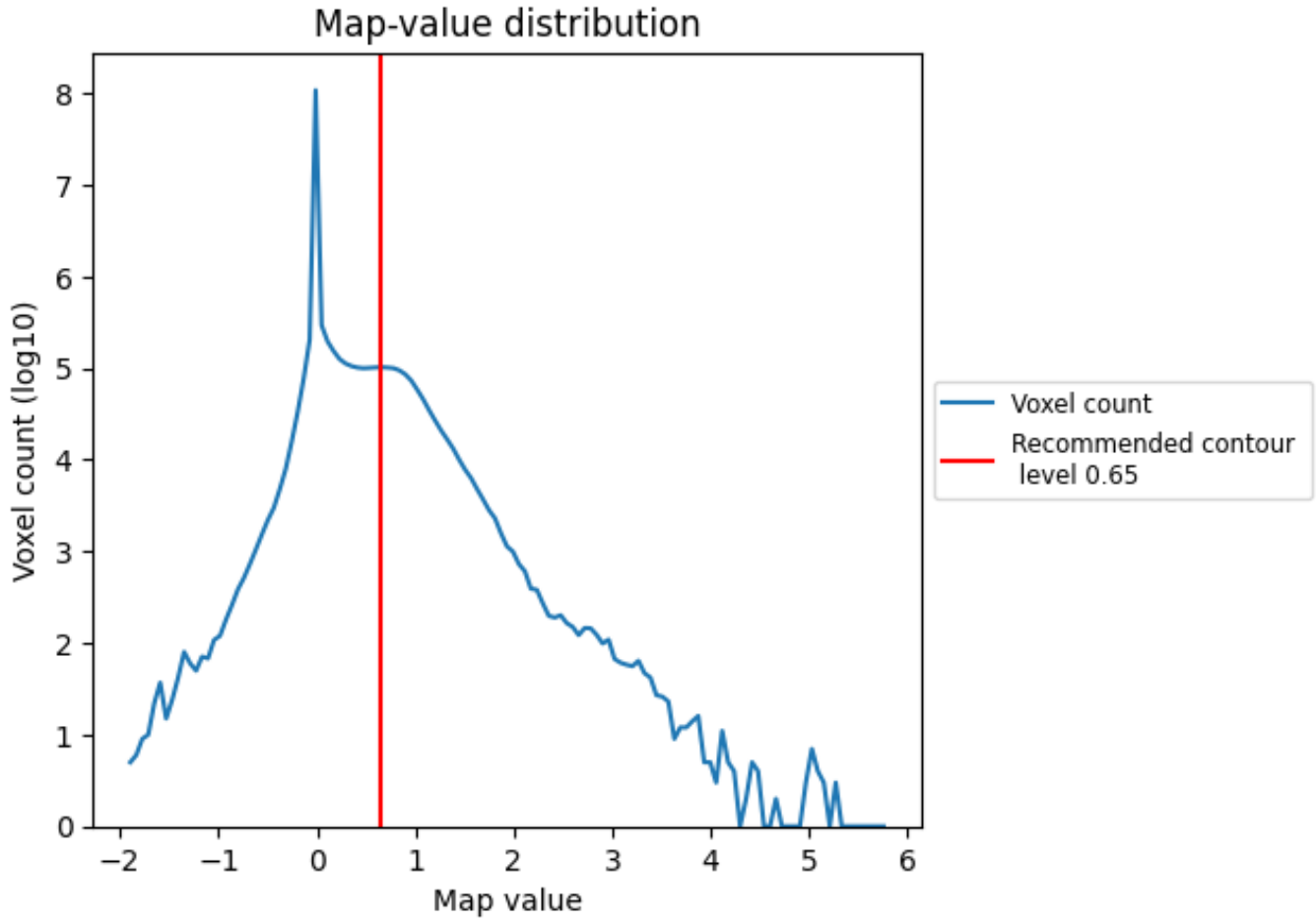
6.6 Mask visualisation (i)

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

7 Map analysis

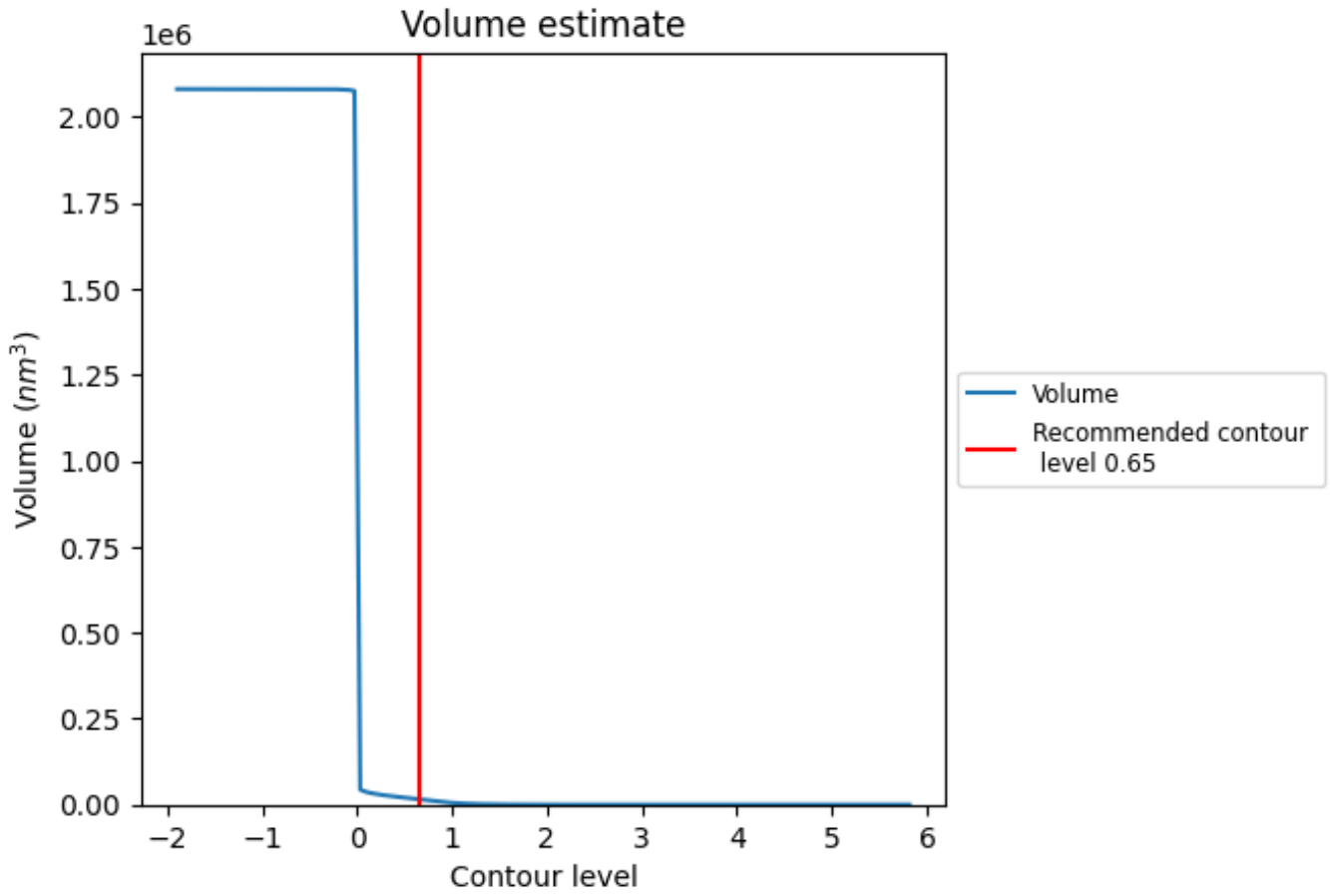
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

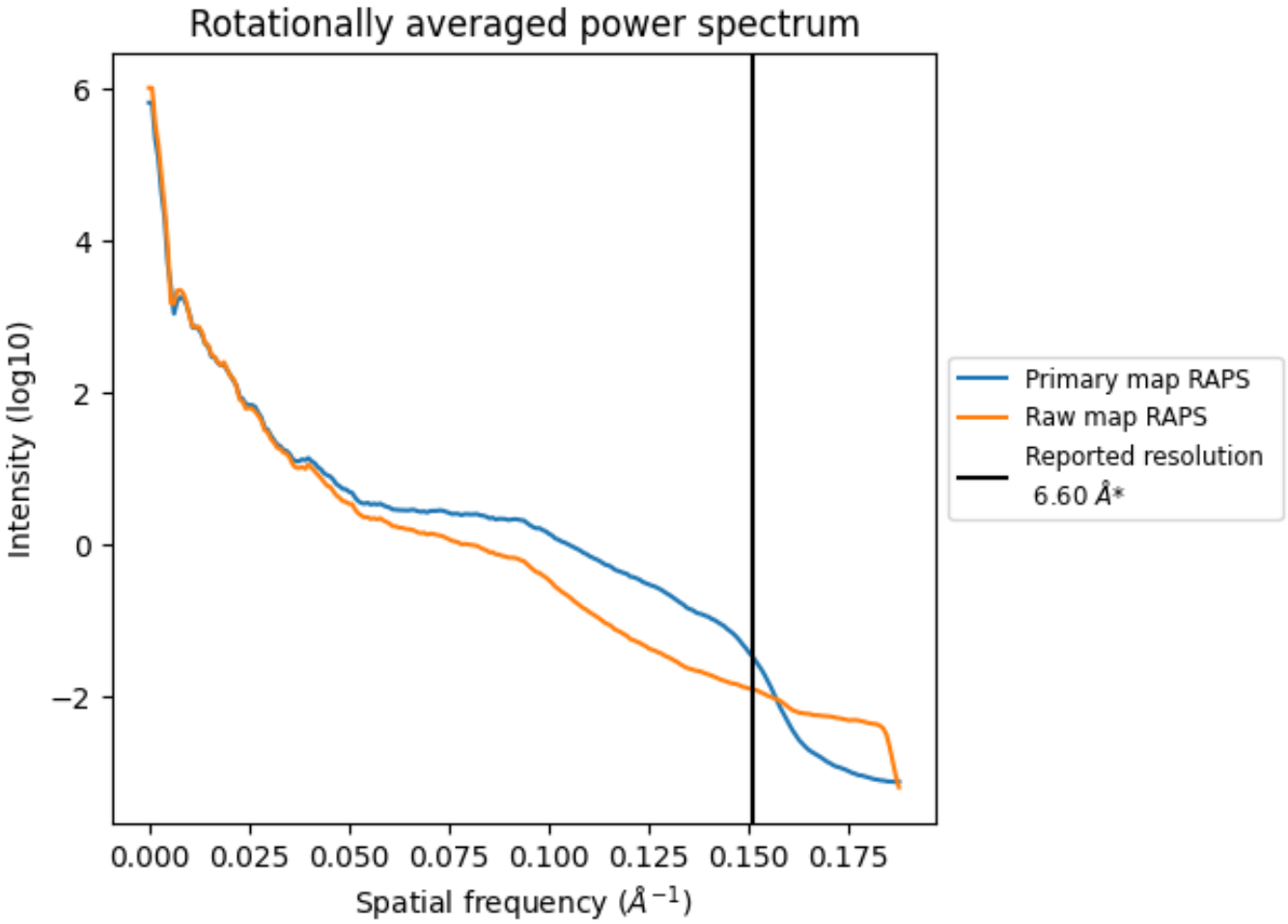
7.2 Volume estimate (i)



The volume at the recommended contour level is 15598 nm^3; this corresponds to an approximate mass of 14090 kDa.

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

7.3 Rotationally averaged power spectrum (i)

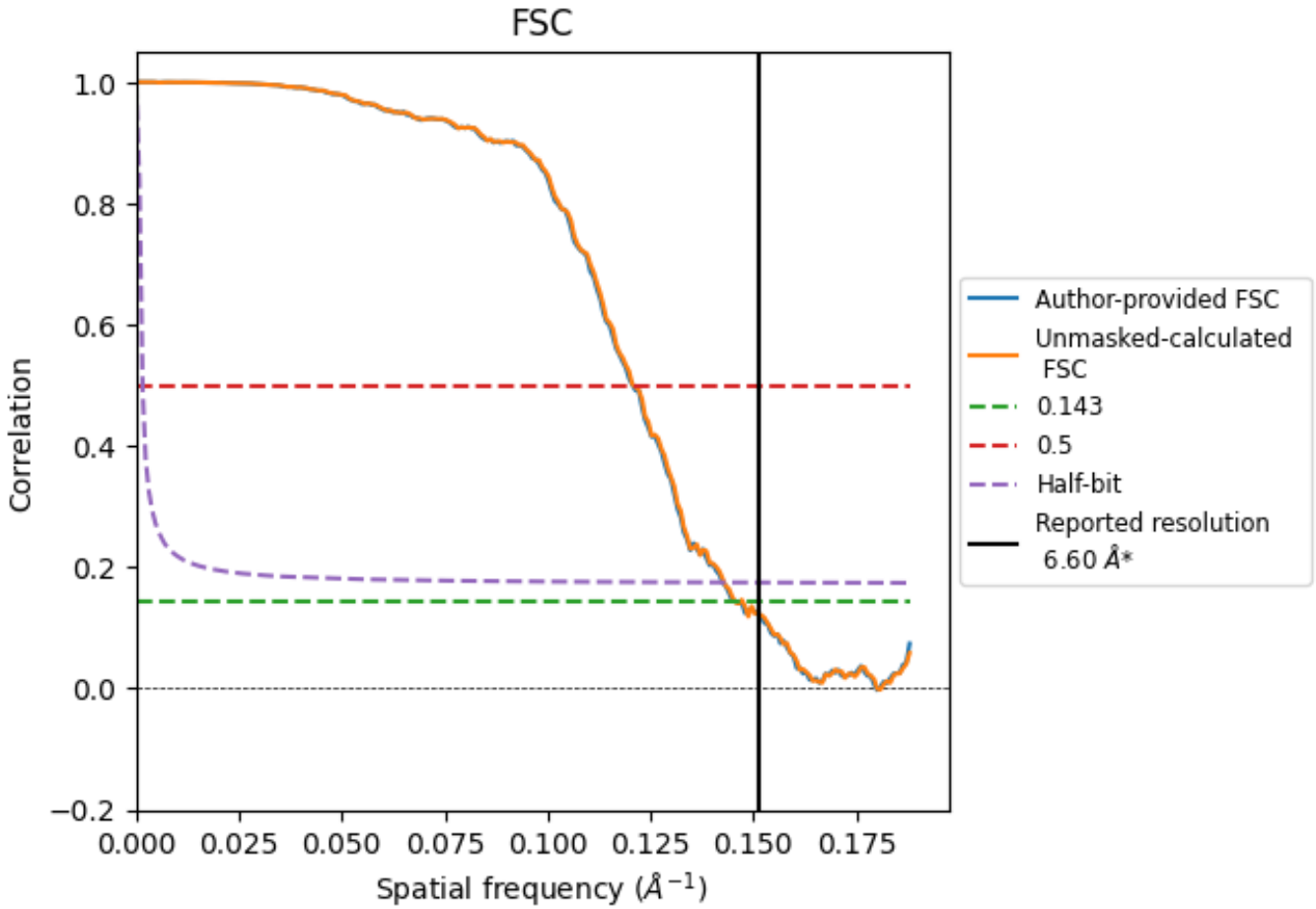


*Reported resolution corresponds to spatial frequency of 0.152 $Å^{-1}$

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.152 Å^{-1}

8.2 Resolution estimates (i)

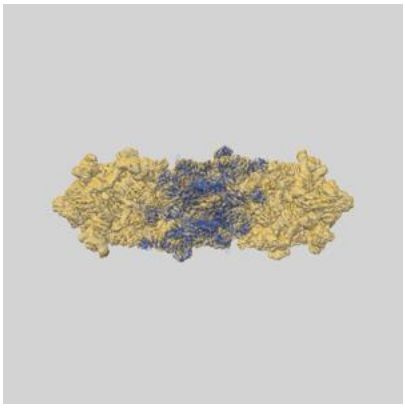
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	6.60	-	-
Author-provided FSC curve	6.86	8.29	7.02
Unmasked-calculated*	6.87	8.27	6.99

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

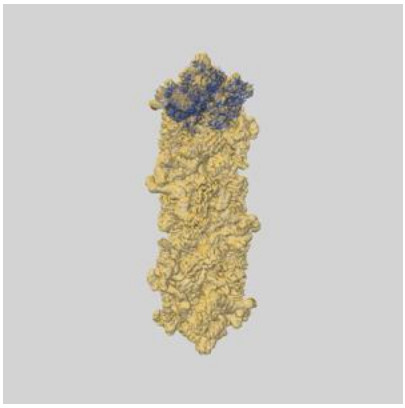
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-41300 and PDB model 8TJ5. Per-residue inclusion information can be found in section 3 on page 9.

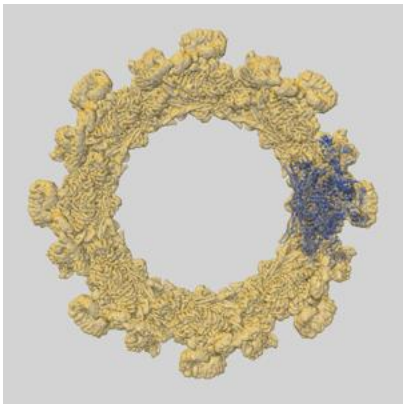
9.1 Map-model overlay



X



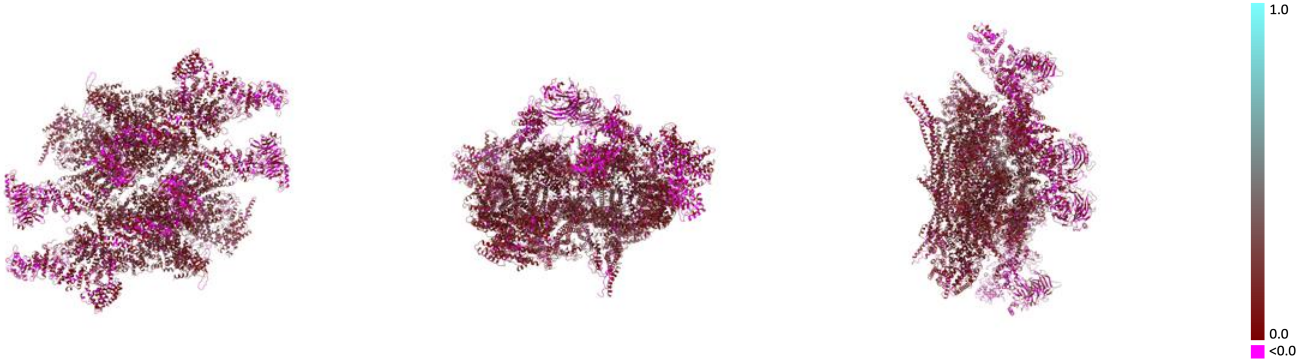
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.65 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

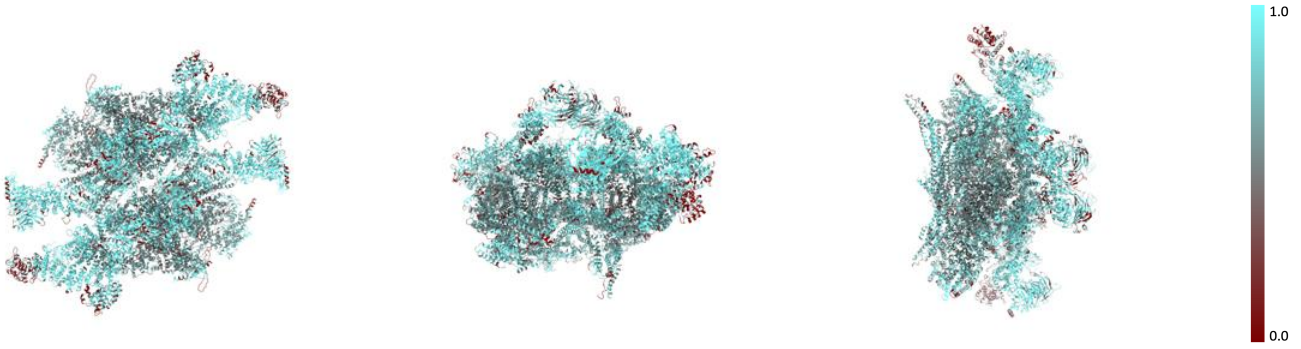
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

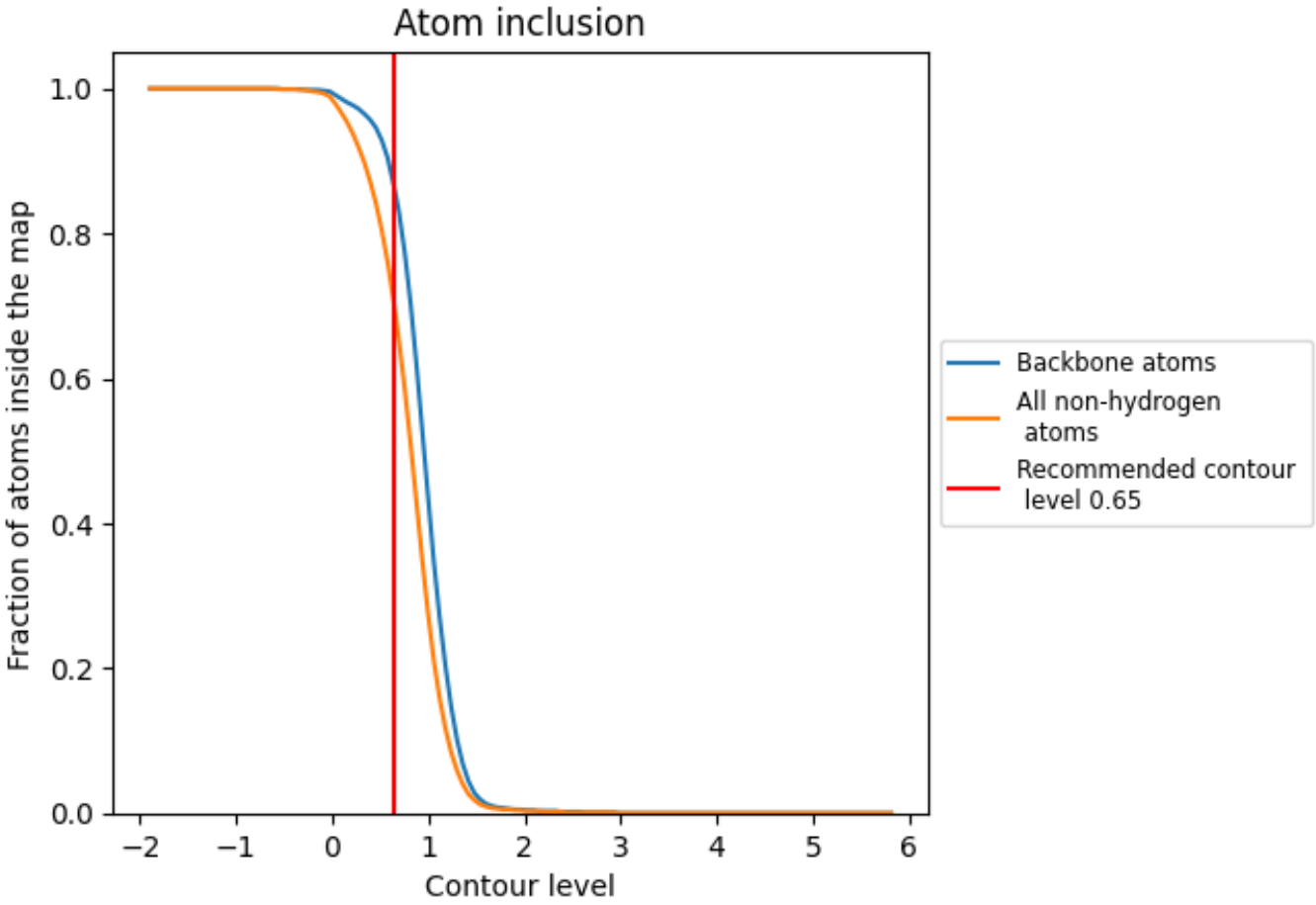
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.65).

9.4 Atom inclusion (i)



At the recommended contour level, 86% of all backbone atoms, 70% 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 (0.65) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6970	0.1130
0	0.8040	0.0850
1	0.7170	0.0560
3	0.8380	0.2750
4	0.8500	0.2630
7	0.8940	0.1740
8	0.9180	0.1870
A	0.7000	0.1480
B	0.6510	0.1110
C	0.6650	0.1440
D	0.7470	0.1580
E	0.7510	0.1430
F	0.7260	0.1430
G	0.7030	0.1500
H	0.6510	0.1100
I	0.6750	0.1400
J	0.7490	0.1560
K	0.7580	0.1440
L	0.7310	0.1430
M	0.6160	0.1320
N	0.6170	0.1340
O	0.6190	0.1330
P	0.6160	0.1350
Q	0.6710	0.0820
R	0.8020	0.1440
S	0.6720	0.0830
T	0.8060	0.1430
U	0.9020	0.0800
V	0.9080	0.0570
W	0.8960	0.0860
X	0.9240	0.0660
Y	0.8030	0.0880
Z	0.7140	0.0560
a	0.2500	0.1860
b	0.6290	0.2290

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Chain	Atom inclusion	Q-score
c	0.4590	0.1280
d	0.7460	0.2710
e	0.8270	0.2490
f	0.2750	0.2220
g	0.6400	0.2240
h	0.5650	0.2270
i	0.6820	0.2670
j	0.7030	0.2170
k	0.5540	0.2590
l	0.6000	0.2420
m	0.7360	0.2080
n	0.7360	0.1930