```
REM  ------------------------------------------------------------  2WHG
REM                                                                2WHG
REM  STRIDE: Knowledge-based secondary structure assignment        2WHG
REM  Please cite: D.Frishman & P.Argos, Proteins XX, XXX-XXX, 1995 2WHG
REM                                                                2WHG
REM  Residue accessible surface area calculation                   2WHG
REM  Please cite: F.Eisenhaber & P.Argos, J.Comp.Chem. 14, 1272-1280, 1993 2WHG
REM               F.Eisenhaber et al., J.Comp.Chem., 1994, submitted 2WHG
REM                                                                2WHG
REM  ---------------------- General information ----------------------  2WHG
REM                                                                2WHG
HDR  HYDROLASE                                 05-MAY-09   2WHG    2WHG
CMP  MOL_ID: 1;                                                    2WHG
CMP   MOLECULE: VIM-4 METALLO-BETA-LACTAMASE;                      2WHG
CMP   CHAIN: A, B;                                                 2WHG
CMP   FRAGMENT: RESIDUES 32-261;                                   2WHG
CMP   EC: 3.5.2.6;                                                 2WHG
CMP   ENGINEERED: YES                                              2WHG
SRC  MOL_ID: 1;                                                    2WHG
SRC   ORGANISM_SCIENTIFIC: PSEUDOMONAS AERUGINOSA;                 2WHG
SRC   ORGANISM_TAXID: 287;                                         2WHG
SRC   EXPRESSION_SYSTEM: ESCHERICHIA COLI;                         2WHG
SRC   EXPRESSION_SYSTEM_TAXID: 469008;                             2WHG
SRC   EXPRESSION_SYSTEM_STRAIN: BL21-CODONPLUS (DE3);              2WHG
SRC   EXPRESSION_SYSTEM_VECTOR_TYPE: PLASMID;                      2WHG
SRC   EXPRESSION_SYSTEM_PLASMID: PET9A-VIM-4;                      2WHG
SRC   OTHER_DETAILS: GENE BLAVIM-4                                 2WHG
AUT  P.LASSAUX,D.A.K.TRAORE,M.GALLENI,J.L.FERRER                   2WHG
REM                                                                2WHG
REM  ------------------- Secondary structure summary ------------------  2WHG
```

```
REM                                                                    2WHG
CHN  /home/proj/stride/tmp/tmp0_BF5dpdb A                              2WHG
REM                                                                    2WHG
REM                .         .         .         .         .           2WHG
SEQ  1    EYPTVNEIPVGEVRLYQIADGVWSHIATQSFDGAVYPSNGLIVRDGDELL   50      2WHG
STR           GGG TTTEEEEEEEETTEEEEEEEEETTEBEEEEEEEEETTEEE             2WHG
REM                                                                    2WHG
REM                .         .         .         .         .           2WHG
SEQ  51   LIDTAWGAKNTAALLAEIEKQIGLPVTRAVSTHFHDDRVGGVDVLRAAGV  100      2WHG
STR       EE     HHHHHHHHHHHHHHH   EEEEE     HHHHTTHHHHHHH           2WHG
REM                                                                    2WHG
REM                .         .         .         .         .           2WHG
SEQ  101  ATYASPSTRRLAEAEGNEIPTHSLEGLSSSGDAVRFGPVELFYPGAAHST  150      2WHG
STR       EEEE HHHHHHHHHH      EE     TTTEEEEETTEEEEE  TTTTT          2WHG
REM                                                                    2WHG
REM                .         .         .         .         .           2WHG
SEQ  151  DNLVVYVPSANVLYGGCAVHELSRTSAGNVADADLAEWPTSVERIQKHYP  200      2WHG
STR       TT EEEETTTTEEETTTTTTTTTT  TTTTTTTTTTHHHHHHHHHHHHTT           2WHG
REM                                                                    2WHG
REM                .         .         .                              2WHG
SEQ  201  EAEVVIPGHGLPGGLDLLQHTANVVKAHKN                    230       2WHG
STR       TTTEEETTTT  B HHHHHHHHHHHHHH                                 2WHG
REM                                                                    2WHG
CHN  /home/proj/stride/tmp/tmp0_BF5dpdb B                              2WHG
REM                                                                    2WHG
REM                .         .         .         .         .           2WHG
SEQ  1    EYPTVNEIPVGEVRLYQIADGVWSHIATQSFDGAVYPSNGLIVRDGDELL   50      2WHG
STR           GGG TTTTEEEEEEETTEEEEEEEEETTEEEEEEEEEETTEEE             2WHG
REM                                                                    2WHG
REM                .         .         .         .         .           2WHG
```

```
SEQ  51   LIDTAWGAKNTAALLAEIEKQIGLPVTRAVSTHFHDDRVGGVDVLRAAGV  100          2WHG
STR       EE     HHHHHHHHHHHHHHH   EEEEE     HHHHTTHHHHHHH                2WHG
REM                                                                       2WHG
REM                .         .         .         .         .              2WHG
SEQ  101  ATYASPSTRRLAEAEGNEIPTHSLEGLSSSGDAVRFGPVELFYPGAAHST  150          2WHG
STR       EEEE HHHHHHHHHH      EE     TTTEEEEETTEEEEE  TTTTT              2WHG
REM                                                                       2WHG
REM                .         .         .         .         .              2WHG
SEQ  151  DNLVVYVPSANVLYGGCAVHELSRTSAGNVADADLAEWPTSVERIQKHYP  200          2WHG
STR       TT EEEETTTTEEETTTTTTTTTT  TTTTTTTTTTHHHHHHHHHHHHTT               2WHG
REM                                                                       2WHG
REM                .         .         .                                  2WHG
SEQ  201  EAEVVIPGHGLPGGLDLLQHTANVVKAHKN                  230             2WHG
STR       TTTEEETTTT  B HHHHHHHHHHHHHHH                                   2WHG
REM                                                                       2WHG
REM                                                                       2WHG
REM                                                                       2WHG
LOC  AlphaHelix   ALA    89 A      ILE    103 A                           2WHG
LOC  AlphaHelix   ASP   117 A      VAL    120 A                           2WHG
LOC  AlphaHelix   VAL   123 A      ALA    129 A                           2WHG
LOC  AlphaHelix   PRO   137 A      GLU    146 A                           2WHG
LOC  AlphaHelix   GLU   218 A      HIS    229 A                           2WHG
LOC  AlphaHelix   LEU   246 A      LYS    260 A                           2WHG
LOC  AlphaHelix   ALA    89 B      ILE    103 B                           2WHG
LOC  AlphaHelix   ASP   117 B      VAL    120 B                           2WHG
LOC  AlphaHelix   VAL   123 B      ALA    129 B                           2WHG
LOC  AlphaHelix   PRO   137 B      GLU    146 B                           2WHG
LOC  AlphaHelix   GLU   218 B      HIS    229 B                           2WHG
LOC  AlphaHelix   LEU   246 B      LYS    260 B                           2WHG
LOC  310Helix     VAL    36 A      GLU     38 A                           2WHG
```

```
LOC  310Helix     VAL    36 B      GLU    38 B                    2WHG
LOC  Strand       GLU    43 A      ALA    50 A                    2WHG
LOC  Strand       VAL    53 A      PHE    62 A                    2WHG
LOC  Strand       ALA    65 A      ALA    65 A                    2WHG
LOC  Strand       TYR    67 A      ASP    76 A                    2WHG
LOC  Strand       GLU    79 A      ILE    83 A                    2WHG
LOC  Strand       VAL   107 A      VAL   111 A                    2WHG
LOC  Strand       ALA   132 A      ALA   135 A                    2WHG
LOC  Strand       HIS   153 A      SER   154 A                    2WHG
LOC  Strand       ASP   163 A      PHE   167 A                    2WHG
LOC  Strand       VAL   170 A      TYR   174 A                    2WHG
LOC  Strand       VAL   185 A      VAL   188 A                    2WHG
LOC  Strand       VAL   193 A      TYR   195 A                    2WHG
LOC  Strand       VAL   235 A      ILE   237 A                    2WHG
LOC  Strand       VAL    44 B      ALA    50 B                    2WHG
LOC  Strand       VAL    53 B      PHE    62 B                    2WHG
LOC  Strand       ALA    65 B      ASP    76 B                    2WHG
LOC  Strand       GLU    79 B      ILE    83 B                    2WHG
LOC  Strand       VAL   107 B      VAL   111 B                    2WHG
LOC  Strand       ALA   132 B      ALA   135 B                    2WHG
LOC  Strand       HIS   153 B      SER   154 B                    2WHG
LOC  Strand       ASP   163 B      PHE   167 B                    2WHG
LOC  Strand       VAL   170 B      TYR   174 B                    2WHG
LOC  Strand       VAL   185 B      VAL   188 B                    2WHG
LOC  Strand       VAL   193 B      TYR   195 B                    2WHG
LOC  Strand       VAL   235 B      ILE   237 B                    2WHG
LOC  TurnII       PRO    40 A      GLU    43 A                    2WHG
LOC  TurnII       ALA    50 A      VAL    53 A                    2WHG
LOC  TurnIV       SER    61 A      GLY    64 A                    2WHG
LOC  TurnI'       PHE    62 A      ALA    65 A                    2WHG
```

```
LOC  TurnII'      ASP    76 A      GLU     79 A                    2WHG
LOC  TurnII       VAL   120 A      VAL    123 A                    2WHG
LOC  TurnII       SER   160 A      ASP    163 A                    2WHG
LOC  TurnII'      PHE   167 A      VAL    170 A                    2WHG
LOC  TurnIV       ALA   177 A      SER    180 A                    2WHG
LOC  TurnIV       ALA   178 A      THR    181 A                    2WHG
LOC  TurnI        SER   180 A      ASN    183 A                    2WHG
LOC  TurnI        VAL   188 A      ALA    191 A                    2WHG
LOC  TurnI        PRO   189 A      ASN    192 A                    2WHG
LOC  TurnII'      GLY   196 A      ALA    199 A                    2WHG
LOC  TurnI        GLY   197 A      VAL    200 A                    2WHG
LOC  TurnVIII     CYS   198 A      HIS    201 A                    2WHG
LOC  TurnI        GLU   202 A      ARG    205 A                    2WHG
LOC  TurnIV       ALA   208 A      VAL    211 A                    2WHG
LOC  TurnI        VAL   211 A      ALA    214 A                    2WHG
LOC  TurnI        ASP   215 A      GLU    218 A                    2WHG
LOC  TurnI        TYR   230 A      ALA    233 A                    2WHG
LOC  TurnVIII     ALA   233 A      VAL    236 A                    2WHG
LOC  TurnVIII     PRO   238 A      GLY    241 A                    2WHG
LOC  TurnII       PRO    40 B      GLU     43 B                    2WHG
LOC  TurnII       ALA    50 B      VAL     53 B                    2WHG
LOC  TurnIV       SER    61 B      GLY     64 B                    2WHG
LOC  TurnI'       PHE    62 B      ALA     65 B                    2WHG
LOC  TurnII'      ASP    76 B      GLU     79 B                    2WHG
LOC  TurnII       VAL   120 B      VAL    123 B                    2WHG
LOC  TurnII       SER   160 B      ASP    163 B                    2WHG
LOC  TurnII'      PHE   167 B      VAL    170 B                    2WHG
LOC  TurnIV       ALA   177 B      SER    180 B                    2WHG
LOC  TurnIV       ALA   178 B      THR    181 B                    2WHG
LOC  TurnI        SER   180 B      ASN    183 B                    2WHG
```

```
LOC  TurnI        VAL   188 B      ALA    191 B                          2WHG
LOC  TurnI        PRO   189 B      ASN    192 B                          2WHG
LOC  TurnII'      GLY   196 B      ALA    199 B                          2WHG
LOC  TurnI        GLY   197 B      VAL    200 B                          2WHG
LOC  TurnVIII     CYS   198 B      HIS    201 B                          2WHG
LOC  TurnI        GLU   202 B      ARG    205 B                          2WHG
LOC  TurnIV       ALA   208 B      VAL    211 B                          2WHG
LOC  TurnI        VAL   211 B      ALA    214 B                          2WHG
LOC  TurnIV       ASP   215 B      GLU    218 B                          2WHG
LOC  TurnI        TYR   230 B      ALA    233 B                          2WHG
LOC  TurnVIII     ALA   233 B      VAL    236 B                          2WHG
LOC  TurnVIII     PRO   238 B      GLY    241 B                          2WHG
REM                                                                       2WHG
REM  --------------- Detailed secondary structure assignment------------  2WHG
REM                                                                       2WHG
REM  |---Residue---|    |--Structure--|   |-Phi-|   |-Psi-|  |-Area-|     2WHG
ASG  GLU A   32    1    C          Coil    360.00     13.49     209.9     2WHG
ASG  TYR A   33    2    C          Coil    -60.02    129.89      21.6     2WHG
ASG  PRO A   34    3    C          Coil    -57.74    139.07      13.8     2WHG
ASG  THR A   35    4    C          Coil   -121.25    170.28      45.5     2WHG
ASG  VAL A   36    5    G      310Helix    -60.92    -32.96      19.7     2WHG
ASG  ASN A   37    6    G      310Helix    -68.92    -16.57      78.9     2WHG
ASG  GLU A   38    7    G      310Helix    -99.97     -9.23     119.0     2WHG
ASG  ILE A   39    8    C          Coil   -111.85    112.08       8.8     2WHG
ASG  PRO A   40    9    T          Turn    -66.59    153.25      57.2     2WHG
ASG  VAL A   41   10    T          Turn    -49.06    124.16     111.5     2WHG
ASG  GLY A   42   11    T          Turn     80.12      6.08      18.0     2WHG
ASG  GLU A   43   12    E        Strand   -102.89    162.49      83.4     2WHG
ASG  VAL A   44   13    E        Strand   -126.59    139.75       0.9     2WHG
ASG  ARG A   45   14    E        Strand   -108.97    150.83      70.8     2WHG
```

ASG	LEU	A	46	15	E	Strand	-112.08	138.61	22.6	2WHG
ASG	TYR	A	47	16	E	Strand	-127.00	123.26	61.0	2WHG
ASG	GLN	A	48	17	E	Strand	-75.60	118.15	101.7	2WHG
ASG	ILE	A	49	18	E	Strand	-93.61	-44.86	28.9	2WHG
ASG	ALA	A	50	19	E	Strand	-156.01	172.86	30.9	2WHG
ASG	ASP	A	51	20	T	Turn	-52.58	122.75	156.3	2WHG
ASG	GLY	A	52	21	T	Turn	68.41	17.24	18.9	2WHG
ASG	VAL	A	53	22	E	Strand	-136.16	122.75	1.2	2WHG
ASG	TRP	A	54	23	E	Strand	-125.78	150.05	33.7	2WHG
ASG	SER	A	55	24	E	Strand	-97.15	158.26	0.0	2WHG
ASG	HIS	A	56	25	E	Strand	-116.40	145.47	1.0	2WHG
ASG	ILE	A	57	26	E	Strand	-136.15	128.99	1.0	2WHG
ASG	ALA	A	58	27	E	Strand	-141.86	174.34	0.9	2WHG
ASG	THR	A	59	28	E	Strand	-123.17	157.99	9.8	2WHG
ASG	GLN	A	60	29	E	Strand	-153.72	150.54	62.8	2WHG
ASG	SER	A	61	30	E	Strand	-73.02	130.72	69.3	2WHG
ASG	PHE	A	62	31	E	Strand	-154.91	126.19	66.6	2WHG
ASG	ASP	A	63	32	T	Turn	53.55	35.73	19.5	2WHG
ASG	GLY	A	64	33	T	Turn	90.87	1.17	18.2	2WHG
ASG	ALA	A	65	34	E	Strand	-135.30	170.29	1.6	2WHG
ASG	VAL	A	66	35	B	Bridge	-106.51	125.14	6.4	2WHG
ASG	TYR	A	67	36	E	Strand	-115.14	139.35	21.4	2WHG
ASG	PRO	A	68	37	E	Strand	-85.95	164.38	8.8	2WHG
ASG	SER	A	69	38	E	Strand	-151.56	159.38	1.9	2WHG
ASG	ASN	A	70	39	E	Strand	-111.52	156.81	1.2	2WHG
ASG	GLY	A	71	40	E	Strand	-145.58	175.72	0.0	2WHG
ASG	LEU	A	72	41	E	Strand	-122.42	152.25	0.0	2WHG
ASG	ILE	A	73	42	E	Strand	-131.30	129.40	0.6	2WHG
ASG	VAL	A	74	43	E	Strand	-131.38	128.64	3.2	2WHG
ASG	ARG	A	75	44	E	Strand	-56.70	127.59	136.3	2WHG

ASG	ASP	A	76	45	E	Strand	-123.72	76.69	31.6	2WHG
ASG	GLY	A	77	46	T	Turn	68.09	-116.23	42.4	2WHG
ASG	ASP	A	78	47	T	Turn	-96.09	3.08	119.5	2WHG
ASG	GLU	A	79	48	E	Strand	-121.07	179.57	66.9	2WHG
ASG	LEU	A	80	49	E	Strand	-121.97	140.46	0.2	2WHG
ASG	LEU	A	81	50	E	Strand	-101.74	129.31	0.0	2WHG
ASG	LEU	A	82	51	E	Strand	-102.37	135.23	0.8	2WHG
ASG	ILE	A	83	52	E	Strand	-114.10	115.72	0.0	2WHG
ASG	ASP	A	84	53	C	Coil	76.79	144.81	1.0	2WHG
ASG	THR	A	85	54	C	Coil	-70.10	176.78	0.2	2WHG
ASG	ALA	A	86	55	C	Coil	-96.52	27.07	1.3	2WHG
ASG	TRP	A	87	56	C	Coil	68.03	68.97	28.3	2WHG
ASG	GLY	A	88	57	C	Coil	118.11	165.05	19.0	2WHG
ASG	ALA	A	89	58	H	AlphaHelix	-67.18	-48.17	50.5	2WHG
ASG	LYS	A	90	59	H	AlphaHelix	-53.36	-54.46	166.7	2WHG
ASG	ASN	A	91	60	H	AlphaHelix	-58.01	-46.53	4.2	2WHG
ASG	THR	A	92	61	H	AlphaHelix	-61.49	-41.63	0.0	2WHG
ASG	ALA	A	93	62	H	AlphaHelix	-59.37	-46.18	48.4	2WHG
ASG	ALA	A	94	63	H	AlphaHelix	-61.53	-37.18	27.0	2WHG
ASG	LEU	A	95	64	H	AlphaHelix	-58.24	-46.12	0.0	2WHG
ASG	LEU	A	96	65	H	AlphaHelix	-61.48	-39.77	35.7	2WHG
ASG	ALA	A	97	66	H	AlphaHelix	-69.30	-37.02	64.2	2WHG
ASG	GLU	A	98	67	H	AlphaHelix	-69.18	-39.21	31.9	2WHG
ASG	ILE	A	99	68	H	AlphaHelix	-61.12	-45.97	2.2	2WHG
ASG	GLU	A	100	69	H	AlphaHelix	-68.21	-38.40	122.5	2WHG
ASG	LYS	A	101	70	H	AlphaHelix	-63.78	-48.22	170.6	2WHG
ASG	GLN	A	102	71	H	AlphaHelix	-89.14	-30.74	103.5	2WHG
ASG	ILE	A	103	72	H	AlphaHelix	-114.40	-52.18	37.7	2WHG
ASG	GLY	A	104	73	C	Coil	78.69	18.90	36.9	2WHG
ASG	LEU	A	105	74	C	Coil	-111.93	151.12	59.3	2WHG

ASG	PRO	A	106	75	C	Coil	-76.29	135.01	73.4	2WHG
ASG	VAL	A	107	76	E	Strand	-77.51	113.80	20.8	2WHG
ASG	THR	A	108	77	E	Strand	-104.06	-26.60	34.6	2WHG
ASG	ARG	A	109	78	E	Strand	-145.80	149.37	56.9	2WHG
ASG	ALA	A	110	79	E	Strand	-139.23	144.49	2.2	2WHG
ASG	VAL	A	111	80	E	Strand	-123.22	132.03	0.2	2WHG
ASG	SER	A	112	81	C	Coil	-105.98	133.48	3.0	2WHG
ASG	THR	A	113	82	C	Coil	-97.44	-9.48	0.6	2WHG
ASG	HIS	A	114	83	C	Coil	-165.47	179.27	0.2	2WHG
ASG	PHE	A	115	84	C	Coil	-84.60	-4.30	9.8	2WHG
ASG	HIS	A	116	85	C	Coil	-75.74	164.62	24.9	2WHG
ASG	ASP	A	117	86	H	AlphaHelix	-62.65	-26.73	69.0	2WHG
ASG	ASP	A	118	87	H	AlphaHelix	-70.81	9.17	9.5	2WHG
ASG	ARG	A	119	88	H	AlphaHelix	-139.20	-33.43	0.0	2WHG
ASG	VAL	A	120	89	H	AlphaHelix	-111.15	-9.67	0.0	2WHG
ASG	GLY	A	121	90	T	Turn	-81.01	116.83	2.3	2WHG
ASG	GLY	A	122	91	T	Turn	115.76	-0.83	0.0	2WHG
ASG	VAL	A	123	92	H	AlphaHelix	-66.52	-34.41	0.2	2WHG
ASG	ASP	A	124	93	H	AlphaHelix	-62.70	-43.23	86.8	2WHG
ASG	VAL	A	125	94	H	AlphaHelix	-59.81	-45.82	40.2	2WHG
ASG	LEU	A	126	95	H	AlphaHelix	-58.65	-45.56	1.2	2WHG
ASG	ARG	A	127	96	H	AlphaHelix	-58.89	-43.11	95.8	2WHG
ASG	ALA	A	128	97	H	AlphaHelix	-63.35	-27.29	92.2	2WHG
ASG	ALA	A	129	98	H	AlphaHelix	-84.58	1.14	60.3	2WHG
ASG	GLY	A	130	99	C	Coil	86.82	12.45	63.6	2WHG
ASG	VAL	A	131	100	C	Coil	-86.39	127.26	7.2	2WHG
ASG	ALA	A	132	101	E	Strand	-83.02	124.26	29.7	2WHG
ASG	THR	A	133	102	E	Strand	-105.88	141.91	1.0	2WHG
ASG	TYR	A	134	103	E	Strand	-136.03	149.53	47.4	2WHG
ASG	ALA	A	135	104	E	Strand	-167.70	164.93	0.0	2WHG

ASG	SER	A	136	105	C	Coil	-65.88	157.35	6.6	2WHG
ASG	PRO	A	137	106	H	AlphaHelix	-56.78	-30.99	28.1	2WHG
ASG	SER	A	138	107	H	AlphaHelix	-68.57	-48.23	34.8	2WHG
ASG	THR	A	139	108	H	AlphaHelix	-53.67	-43.30	0.0	2WHG
ASG	ARG	A	140	109	H	AlphaHelix	-62.88	-45.56	73.9	2WHG
ASG	ARG	A	141	110	H	AlphaHelix	-57.20	-57.29	160.0	2WHG
ASG	LEU	A	142	111	H	AlphaHelix	-59.49	-42.14	52.6	2WHG
ASG	ALA	A	143	112	H	AlphaHelix	-61.18	-46.98	0.0	2WHG
ASG	GLU	A	144	113	H	AlphaHelix	-56.75	-46.37	130.9	2WHG
ASG	ALA	A	145	114	H	AlphaHelix	-67.88	-27.36	85.5	2WHG
ASG	GLU	A	146	115	H	AlphaHelix	-84.12	-17.18	114.8	2WHG
ASG	GLY	A	147	116	C	Coil	77.51	32.21	67.3	2WHG
ASG	ASN	A	148	117	C	Coil	-98.45	169.19	26.8	2WHG
ASG	GLU	A	149	118	C	Coil	-72.14	150.54	46.9	2WHG
ASG	ILE	A	150	119	C	Coil	-120.51	111.09	45.1	2WHG
ASG	PRO	A	151	120	C	Coil	-50.68	139.38	0.0	2WHG
ASG	THR	A	152	121	C	Coil	-62.29	-46.14	60.5	2WHG
ASG	HIS	A	153	122	E	Strand	-109.01	143.43	79.1	2WHG
ASG	SER	A	154	123	E	Strand	-89.15	132.89	47.8	2WHG
ASG	LEU	A	155	124	C	Coil	-91.13	117.12	11.1	2WHG
ASG	GLU	A	156	125	C	Coil	-85.58	158.63	139.5	2WHG
ASG	GLY	A	157	126	C	Coil	91.32	12.84	40.5	2WHG
ASG	LEU	A	158	127	C	Coil	-125.85	12.63	7.8	2WHG
ASG	SER	A	159	128	C	Coil	-80.82	-19.41	111.6	2WHG
ASG	SER	A	160	129	T	Turn	-113.58	147.97	61.3	2WHG
ASG	SER	A	161	130	T	Turn	-61.32	137.53	60.3	2WHG
ASG	GLY	A	162	131	T	Turn	89.89	-5.08	34.4	2WHG
ASG	ASP	A	163	132	E	Strand	-72.96	141.81	48.0	2WHG
ASG	ALA	A	164	133	E	Strand	-139.25	137.41	42.3	2WHG
ASG	VAL	A	165	134	E	Strand	-132.47	150.94	35.3	2WHG

ASG	ARG	A	166	135	E	Strand	-80.87	144.68	200.9	2WHG
ASG	PHE	A	167	136	E	Strand	-143.97	86.08	20.9	2WHG
ASG	GLY	A	168	137	T	Turn	58.09	-125.42	17.1	2WHG
ASG	PRO	A	169	138	T	Turn	-80.47	5.71	32.0	2WHG
ASG	VAL	A	170	139	E	Strand	-128.78	158.91	2.2	2WHG
ASG	GLU	A	171	140	E	Strand	-102.63	132.45	57.3	2WHG
ASG	LEU	A	172	141	E	Strand	-99.48	135.02	0.0	2WHG
ASG	PHE	A	173	142	E	Strand	-131.16	131.33	2.4	2WHG
ASG	TYR	A	174	143	E	Strand	-105.32	110.57	38.3	2WHG
ASG	PRO	A	175	144	C	Coil	-89.14	-1.13	0.2	2WHG
ASG	GLY	A	176	145	C	Coil	107.03	168.85	3.3	2WHG
ASG	ALA	A	177	146	T	Turn	-63.63	148.22	11.0	2WHG
ASG	ALA	A	178	147	T	Turn	-163.68	-104.92	0.8	2WHG
ASG	HIS	A	179	148	T	Turn	-59.20	-41.07	10.7	2WHG
ASG	SER	A	180	149	T	Turn	-141.25	174.83	0.2	2WHG
ASG	THR	A	181	150	T	Turn	-81.07	-23.77	64.1	2WHG
ASG	ASP	A	182	151	T	Turn	-95.25	-3.64	2.3	2WHG
ASG	ASN	A	183	152	T	Turn	-54.02	129.48	2.2	2WHG
ASG	LEU	A	184	153	C	Coil	-109.01	156.37	2.0	2WHG
ASG	VAL	A	185	154	E	Strand	-122.55	159.70	0.2	2WHG
ASG	VAL	A	186	155	E	Strand	-132.42	133.01	0.2	2WHG
ASG	TYR	A	187	156	E	Strand	-118.35	134.58	7.6	2WHG
ASG	VAL	A	188	157	E	Strand	-106.27	96.92	0.0	2WHG
ASG	PRO	A	189	158	T	Turn	-63.35	-32.04	72.3	2WHG
ASG	SER	A	190	159	T	Turn	-63.15	-19.56	107.7	2WHG
ASG	ALA	A	191	160	T	Turn	-126.36	-0.74	18.6	2WHG
ASG	ASN	A	192	161	T	Turn	50.12	43.81	41.5	2WHG
ASG	VAL	A	193	162	E	Strand	-101.60	122.64	0.8	2WHG
ASG	LEU	A	194	163	E	Strand	-103.92	122.01	0.0	2WHG
ASG	TYR	A	195	164	E	Strand	-107.16	113.14	0.2	2WHG

ASG	GLY	A	196	165	T	Turn	-93.23	-12.05	0.7	2WHG
ASG	GLY	A	197	166	T	Turn	46.94	-155.96	0.6	2WHG
ASG	CYS	A	198	167	T	Turn	-71.54	-5.83	2.5	2WHG
ASG	ALA	A	199	168	T	Turn	-71.08	-15.13	1.0	2WHG
ASG	VAL	A	200	169	T	Turn	-123.31	130.15	1.7	2WHG
ASG	HIS	A	201	170	T	Turn	-99.34	147.69	1.4	2WHG
ASG	GLU	A	202	171	T	Turn	-72.97	156.62	11.7	2WHG
ASG	LEU	A	203	172	T	Turn	-52.55	-38.73	92.2	2WHG
ASG	SER	A	204	173	T	Turn	-77.75	-11.54	68.6	2WHG
ASG	ARG	A	205	174	T	Turn	-75.38	131.88	16.6	2WHG
ASG	THR	A	206	175	C	Coil	-110.11	-27.18	107.8	2WHG
ASG	SER	A	207	176	C	Coil	-92.67	-176.66	36.6	2WHG
ASG	ALA	A	208	177	T	Turn	-98.24	16.65	0.6	2WHG
ASG	GLY	A	209	178	T	Turn	73.67	-156.79	23.5	2WHG
ASG	ASN	A	210	179	T	Turn	-73.44	109.90	53.9	2WHG
ASG	VAL	A	211	180	T	Turn	-101.59	11.65	31.0	2WHG
ASG	ALA	A	212	181	T	Turn	-55.14	-38.23	78.6	2WHG
ASG	ASP	A	213	182	T	Turn	-110.44	17.72	61.9	2WHG
ASG	ALA	A	214	183	T	Turn	-82.39	155.19	25.6	2WHG
ASG	ASP	A	215	184	T	Turn	-109.39	86.72	57.8	2WHG
ASG	LEU	A	216	185	T	Turn	-60.77	-33.89	44.0	2WHG
ASG	ALA	A	217	186	T	Turn	-61.78	-43.34	71.6	2WHG
ASG	GLU	A	218	187	H	AlphaHelix	-91.50	-26.00	67.1	2WHG
ASG	TRP	A	219	188	H	AlphaHelix	-42.01	-49.86	0.6	2WHG
ASG	PRO	A	220	189	H	AlphaHelix	-59.45	-33.01	28.0	2WHG
ASG	THR	A	221	190	H	AlphaHelix	-74.94	-38.79	66.6	2WHG
ASG	SER	A	222	191	H	AlphaHelix	-65.05	-43.14	0.6	2WHG
ASG	VAL	A	223	192	H	AlphaHelix	-59.76	-45.42	1.0	2WHG
ASG	GLU	A	224	193	H	AlphaHelix	-64.60	-31.39	102.8	2WHG
ASG	ARG	A	225	194	H	AlphaHelix	-65.20	-39.66	65.9	2WHG

ASG	ILE	A	226	195	H	AlphaHelix	-60.42	-47.16	1.0	2WHG
ASG	GLN	A	227	196	H	AlphaHelix	-56.65	-45.54	40.3	2WHG
ASG	LYS	A	228	197	H	AlphaHelix	-68.50	-36.00	161.7	2WHG
ASG	HIS	A	229	198	H	AlphaHelix	-80.39	-27.04	77.2	2WHG
ASG	TYR	A	230	199	T	Turn	-123.67	60.39	2.2	2WHG
ASG	PRO	A	231	200	T	Turn	-72.53	-18.59	87.4	2WHG
ASG	GLU	A	232	201	T	Turn	-90.67	-3.09	95.0	2WHG
ASG	ALA	A	233	202	T	Turn	-52.53	130.13	9.5	2WHG
ASG	GLU	A	234	203	T	Turn	-98.47	-43.67	132.6	2WHG
ASG	VAL	A	235	204	E	Strand	-112.26	137.17	41.9	2WHG
ASG	VAL	A	236	205	E	Strand	-123.82	122.81	0.0	2WHG
ASG	ILE	A	237	206	E	Strand	-108.89	122.48	0.0	2WHG
ASG	PRO	A	238	207	T	Turn	-81.77	166.36	0.0	2WHG
ASG	GLY	A	239	208	T	Turn	-59.39	-36.11	0.4	2WHG
ASG	HIS	A	240	209	T	Turn	-131.82	127.03	19.8	2WHG
ASG	GLY	A	241	210	T	Turn	97.57	-158.89	5.9	2WHG
ASG	LEU	A	242	211	C	Coil	-76.55	134.71	82.6	2WHG
ASG	PRO	A	243	212	C	Coil	-64.40	161.65	38.8	2WHG
ASG	GLY	A	244	213	B	Bridge	-153.97	-153.14	25.5	2WHG
ASG	GLY	A	245	214	C	Coil	-115.18	-154.77	18.6	2WHG
ASG	LEU	A	246	215	H	AlphaHelix	-57.42	-22.76	66.3	2WHG
ASG	ASP	A	247	216	H	AlphaHelix	-53.47	-29.23	79.9	2WHG
ASG	LEU	A	248	217	H	AlphaHelix	-61.74	-34.96	0.8	2WHG
ASG	LEU	A	249	218	H	AlphaHelix	-65.96	-45.11	0.4	2WHG
ASG	GLN	A	250	219	H	AlphaHelix	-65.76	-44.16	90.4	2WHG
ASG	HIS	A	251	220	H	AlphaHelix	-51.22	-48.38	39.8	2WHG
ASG	THR	A	252	221	H	AlphaHelix	-57.18	-51.64	0.0	2WHG
ASG	ALA	A	253	222	H	AlphaHelix	-50.39	-49.50	5.3	2WHG
ASG	ASN	A	254	223	H	AlphaHelix	-61.60	-47.43	90.3	2WHG
ASG	VAL	A	255	224	H	AlphaHelix	-61.48	-36.27	11.2	2WHG

ASG	VAL	A	256	225	H	AlphaHelix	-74.55	-39.14	0.2	2WHG
ASG	LYS	A	257	226	H	AlphaHelix	-60.66	-48.77	86.4	2WHG
ASG	ALA	A	258	227	H	AlphaHelix	-52.61	-35.85	64.1	2WHG
ASG	HIS	A	259	228	H	AlphaHelix	-67.56	-35.53	65.2	2WHG
ASG	LYS	A	260	229	H	AlphaHelix	-69.94	13.66	86.3	2WHG
ASG	ASN	A	261	230	C	Coil	-146.10	360.00	187.0	2WHG
ASG	GLU	B	32	1	C	Coil	360.00	1.98	204.7	2WHG
ASG	TYR	B	33	2	C	Coil	-61.82	133.33	19.4	2WHG
ASG	PRO	B	34	3	C	Coil	-62.31	137.88	13.3	2WHG
ASG	THR	B	35	4	C	Coil	-114.01	166.17	45.3	2WHG
ASG	VAL	B	36	5	G	310Helix	-56.09	-33.76	19.9	2WHG
ASG	ASN	B	37	6	G	310Helix	-65.13	-16.01	78.0	2WHG
ASG	GLU	B	38	7	G	310Helix	-110.54	7.79	109.9	2WHG
ASG	ILE	B	39	8	C	Coil	-121.57	110.11	11.2	2WHG
ASG	PRO	B	40	9	T	Turn	-69.48	154.57	64.4	2WHG
ASG	VAL	B	41	10	T	Turn	-48.81	130.53	93.5	2WHG
ASG	GLY	B	42	11	T	Turn	71.44	6.69	10.8	2WHG
ASG	GLU	B	43	12	T	Turn	-101.88	162.53	83.3	2WHG
ASG	VAL	B	44	13	E	Strand	-132.24	138.71	0.7	2WHG
ASG	ARG	B	45	14	E	Strand	-112.02	145.57	66.6	2WHG
ASG	LEU	B	46	15	E	Strand	-108.33	140.83	22.7	2WHG
ASG	TYR	B	47	16	E	Strand	-127.91	124.17	58.8	2WHG
ASG	GLN	B	48	17	E	Strand	-70.27	110.15	105.0	2WHG
ASG	ILE	B	49	18	E	Strand	-82.57	-44.00	29.2	2WHG
ASG	ALA	B	50	19	E	Strand	-163.07	172.66	30.8	2WHG
ASG	ASP	B	51	20	T	Turn	-52.83	119.60	158.5	2WHG
ASG	GLY	B	52	21	T	Turn	67.54	15.60	17.5	2WHG
ASG	VAL	B	53	22	E	Strand	-130.62	126.21	1.2	2WHG
ASG	TRP	B	54	23	E	Strand	-130.46	150.39	30.9	2WHG
ASG	SER	B	55	24	E	Strand	-98.71	153.98	0.0	2WHG

ASG	HIS	B	56	25	E	Strand	-115.66	144.97	0.8	2WHG
ASG	ILE	B	57	26	E	Strand	-132.66	127.23	0.8	2WHG
ASG	ALA	B	58	27	E	Strand	-138.03	177.24	0.6	2WHG
ASG	THR	B	59	28	E	Strand	-124.76	162.66	9.1	2WHG
ASG	GLN	B	60	29	E	Strand	-161.14	149.76	64.1	2WHG
ASG	SER	B	61	30	E	Strand	-76.80	131.44	71.7	2WHG
ASG	PHE	B	62	31	E	Strand	-155.16	126.09	65.2	2WHG
ASG	ASP	B	63	32	T	Turn	53.00	38.45	22.7	2WHG
ASG	GLY	B	64	33	T	Turn	93.45	-4.17	17.1	2WHG
ASG	ALA	B	65	34	E	Strand	-131.21	170.38	2.7	2WHG
ASG	VAL	B	66	35	E	Strand	-104.38	119.07	7.6	2WHG
ASG	TYR	B	67	36	E	Strand	-108.28	141.86	20.8	2WHG
ASG	PRO	B	68	37	E	Strand	-82.61	166.26	8.6	2WHG
ASG	SER	B	69	38	E	Strand	-154.33	158.52	1.2	2WHG
ASG	ASN	B	70	39	E	Strand	-113.39	155.55	0.6	2WHG
ASG	GLY	B	71	40	E	Strand	-144.89	-174.53	0.0	2WHG
ASG	LEU	B	72	41	E	Strand	-132.91	153.02	0.2	2WHG
ASG	ILE	B	73	42	E	Strand	-128.97	125.16	0.6	2WHG
ASG	VAL	B	74	43	E	Strand	-124.53	124.45	3.4	2WHG
ASG	ARG	B	75	44	E	Strand	-55.80	129.19	135.4	2WHG
ASG	ASP	B	76	45	E	Strand	-124.85	78.52	32.9	2WHG
ASG	GLY	B	77	46	T	Turn	64.33	-111.35	44.6	2WHG
ASG	ASP	B	78	47	T	Turn	-95.83	2.31	118.0	2WHG
ASG	GLU	B	79	48	E	Strand	-119.70	-179.55	64.5	2WHG
ASG	LEU	B	80	49	E	Strand	-123.30	135.70	0.0	2WHG
ASG	LEU	B	81	50	E	Strand	-98.26	129.59	0.2	2WHG
ASG	LEU	B	82	51	E	Strand	-98.47	134.40	1.0	2WHG
ASG	ILE	B	83	52	E	Strand	-112.59	114.39	0.0	2WHG
ASG	ASP	B	84	53	C	Coil	72.60	146.52	1.2	2WHG
ASG	THR	B	85	54	C	Coil	-73.16	172.64	0.5	2WHG

ASG	ALA	B	86	55	C	Coil	-93.35	22.41	0.4	2WHG
ASG	TRP	B	87	56	C	Coil	74.98	69.82	26.7	2WHG
ASG	GLY	B	88	57	C	Coil	116.69	161.69	18.6	2WHG
ASG	ALA	B	89	58	H	AlphaHelix	-64.84	-47.06	49.6	2WHG
ASG	LYS	B	90	59	H	AlphaHelix	-63.33	-48.37	138.2	2WHG
ASG	ASN	B	91	60	H	AlphaHelix	-61.56	-39.05	4.0	2WHG
ASG	THR	B	92	61	H	AlphaHelix	-70.91	-34.09	0.0	2WHG
ASG	ALA	B	93	62	H	AlphaHelix	-63.36	-45.27	48.2	2WHG
ASG	ALA	B	94	63	H	AlphaHelix	-60.30	-38.58	25.0	2WHG
ASG	LEU	B	95	64	H	AlphaHelix	-58.29	-50.78	0.0	2WHG
ASG	LEU	B	96	65	H	AlphaHelix	-57.59	-42.04	35.4	2WHG
ASG	ALA	B	97	66	H	AlphaHelix	-64.63	-39.33	62.2	2WHG
ASG	GLU	B	98	67	H	AlphaHelix	-72.23	-37.34	33.5	2WHG
ASG	ILE	B	99	68	H	AlphaHelix	-60.04	-46.55	2.4	2WHG
ASG	GLU	B	100	69	H	AlphaHelix	-64.63	-36.24	123.1	2WHG
ASG	LYS	B	101	70	H	AlphaHelix	-68.57	-43.75	168.2	2WHG
ASG	GLN	B	102	71	H	AlphaHelix	-97.58	-34.36	100.3	2WHG
ASG	ILE	B	103	72	H	AlphaHelix	-109.20	-46.67	35.4	2WHG
ASG	GLY	B	104	73	C	Coil	70.24	21.91	35.2	2WHG
ASG	LEU	B	105	74	C	Coil	-106.39	152.86	59.1	2WHG
ASG	PRO	B	106	75	C	Coil	-73.83	134.52	73.4	2WHG
ASG	VAL	B	107	76	E	Strand	-78.81	119.75	21.2	2WHG
ASG	THR	B	108	77	E	Strand	-115.33	-23.20	36.3	2WHG
ASG	ARG	B	109	78	E	Strand	-139.72	148.04	41.3	2WHG
ASG	ALA	B	110	79	E	Strand	-134.01	141.38	2.6	2WHG
ASG	VAL	B	111	80	E	Strand	-119.90	132.50	0.2	2WHG
ASG	SER	B	112	81	C	Coil	-103.67	128.15	4.4	2WHG
ASG	THR	B	113	82	C	Coil	-88.05	-12.39	0.6	2WHG
ASG	HIS	B	114	83	C	Coil	-165.87	-174.61	0.6	2WHG
ASG	PHE	B	115	84	C	Coil	-91.50	-8.15	7.2	2WHG

ASG	HIS	B	116	85	C	Coil	-71.49	162.56	25.5	2WHG
ASG	ASP	B	117	86	H	AlphaHelix	-61.12	-22.75	72.9	2WHG
ASG	ASP	B	118	87	H	AlphaHelix	-79.25	-0.72	9.4	2WHG
ASG	ARG	B	119	88	H	AlphaHelix	-119.67	-41.94	0.0	2WHG
ASG	VAL	B	120	89	H	AlphaHelix	-106.87	-13.42	0.0	2WHG
ASG	GLY	B	121	90	T	Turn	-71.70	111.74	2.3	2WHG
ASG	GLY	B	122	91	T	Turn	116.33	-3.08	0.0	2WHG
ASG	VAL	B	123	92	H	AlphaHelix	-60.24	-39.31	0.2	2WHG
ASG	ASP	B	124	93	H	AlphaHelix	-62.11	-37.81	84.9	2WHG
ASG	VAL	B	125	94	H	AlphaHelix	-68.21	-40.81	42.5	2WHG
ASG	LEU	B	126	95	H	AlphaHelix	-58.32	-49.36	1.2	2WHG
ASG	ARG	B	127	96	H	AlphaHelix	-58.87	-44.04	94.3	2WHG
ASG	ALA	B	128	97	H	AlphaHelix	-58.57	-25.80	91.8	2WHG
ASG	ALA	B	129	98	H	AlphaHelix	-91.09	-2.54	63.1	2WHG
ASG	GLY	B	130	99	C	Coil	93.19	15.05	62.4	2WHG
ASG	VAL	B	131	100	C	Coil	-89.93	126.52	7.1	2WHG
ASG	ALA	B	132	101	E	Strand	-74.75	126.90	26.8	2WHG
ASG	THR	B	133	102	E	Strand	-106.31	140.11	1.0	2WHG
ASG	TYR	B	134	103	E	Strand	-133.59	150.62	47.7	2WHG
ASG	ALA	B	135	104	E	Strand	-160.66	167.91	0.0	2WHG
ASG	SER	B	136	105	C	Coil	-66.63	155.40	7.2	2WHG
ASG	PRO	B	137	106	H	AlphaHelix	-57.72	-33.08	28.6	2WHG
ASG	SER	B	138	107	H	AlphaHelix	-61.14	-51.48	42.4	2WHG
ASG	THR	B	139	108	H	AlphaHelix	-56.81	-41.94	0.0	2WHG
ASG	ARG	B	140	109	H	AlphaHelix	-66.06	-38.97	80.1	2WHG
ASG	ARG	B	141	110	H	AlphaHelix	-57.70	-54.88	167.1	2WHG
ASG	LEU	B	142	111	H	AlphaHelix	-63.72	-35.57	51.5	2WHG
ASG	ALA	B	143	112	H	AlphaHelix	-72.47	-35.55	0.0	2WHG
ASG	GLU	B	144	113	H	AlphaHelix	-72.78	-43.13	140.4	2WHG
ASG	ALA	B	145	114	H	AlphaHelix	-58.96	-30.91	86.3	2WHG

ASG	GLU	B	146	115	H	AlphaHelix	-87.84	-14.15	111.3	2WHG
ASG	GLY	B	147	116	C	Coil	78.41	14.83	67.6	2WHG
ASG	ASN	B	148	117	C	Coil	-84.10	163.24	25.2	2WHG
ASG	GLU	B	149	118	C	Coil	-65.79	150.00	47.1	2WHG
ASG	ILE	B	150	119	C	Coil	-119.00	111.44	50.1	2WHG
ASG	PRO	B	151	120	C	Coil	-52.68	136.43	0.0	2WHG
ASG	THR	B	152	121	C	Coil	-58.41	-53.23	62.9	2WHG
ASG	HIS	B	153	122	E	Strand	-102.43	146.15	78.3	2WHG
ASG	SER	B	154	123	E	Strand	-101.57	135.56	43.4	2WHG
ASG	LEU	B	155	124	C	Coil	-103.75	112.65	14.2	2WHG
ASG	GLU	B	156	125	C	Coil	-85.27	155.04	142.9	2WHG
ASG	GLY	B	157	126	C	Coil	89.78	30.22	44.0	2WHG
ASG	LEU	B	158	127	C	Coil	-140.48	16.25	9.1	2WHG
ASG	SER	B	159	128	C	Coil	-72.18	-26.14	110.0	2WHG
ASG	SER	B	160	129	T	Turn	-115.46	146.46	64.5	2WHG
ASG	SER	B	161	130	T	Turn	-53.95	141.14	49.9	2WHG
ASG	GLY	B	162	131	T	Turn	93.11	-14.33	34.6	2WHG
ASG	ASP	B	163	132	E	Strand	-69.66	141.82	51.0	2WHG
ASG	ALA	B	164	133	E	Strand	-133.51	148.99	38.1	2WHG
ASG	VAL	B	165	134	E	Strand	-137.98	156.03	36.4	2WHG
ASG	ARG	B	166	135	E	Strand	-81.12	143.03	171.3	2WHG
ASG	PHE	B	167	136	E	Strand	-147.08	87.59	14.0	2WHG
ASG	GLY	B	168	137	T	Turn	58.34	-127.78	22.3	2WHG
ASG	PRO	B	169	138	T	Turn	-79.02	11.45	34.4	2WHG
ASG	VAL	B	170	139	E	Strand	-131.18	163.15	4.3	2WHG
ASG	GLU	B	171	140	E	Strand	-107.81	134.91	56.7	2WHG
ASG	LEU	B	172	141	E	Strand	-100.98	136.15	0.0	2WHG
ASG	PHE	B	173	142	E	Strand	-136.01	127.89	2.6	2WHG
ASG	TYR	B	174	143	E	Strand	-97.77	109.40	36.1	2WHG
ASG	PRO	B	175	144	C	Coil	-89.81	-0.87	0.2	2WHG

ASG	GLY	B	176	145	C	Coil	103.40	170.12	3.6	2WHG
ASG	ALA	B	177	146	T	Turn	-65.88	142.59	10.2	2WHG
ASG	ALA	B	178	147	T	Turn	-152.32	-102.75	1.2	2WHG
ASG	HIS	B	179	148	T	Turn	-57.14	-39.88	10.7	2WHG
ASG	SER	B	180	149	T	Turn	-142.82	176.93	0.0	2WHG
ASG	THR	B	181	150	T	Turn	-81.92	-31.09	60.7	2WHG
ASG	ASP	B	182	151	T	Turn	-93.42	-0.09	1.9	2WHG
ASG	ASN	B	183	152	T	Turn	-59.47	126.93	2.6	2WHG
ASG	LEU	B	184	153	C	Coil	-105.34	151.68	2.9	2WHG
ASG	VAL	B	185	154	E	Strand	-114.03	165.50	0.6	2WHG
ASG	VAL	B	186	155	E	Strand	-137.01	129.70	0.2	2WHG
ASG	TYR	B	187	156	E	Strand	-120.10	133.77	18.0	2WHG
ASG	VAL	B	188	157	E	Strand	-102.34	97.54	0.0	2WHG
ASG	PRO	B	189	158	T	Turn	-59.95	-34.74	68.7	2WHG
ASG	SER	B	190	159	T	Turn	-67.15	-22.06	106.7	2WHG
ASG	ALA	B	191	160	T	Turn	-122.37	-3.91	21.7	2WHG
ASG	ASN	B	192	161	T	Turn	57.48	42.80	45.9	2WHG
ASG	VAL	B	193	162	E	Strand	-100.39	122.72	1.6	2WHG
ASG	LEU	B	194	163	E	Strand	-101.36	122.70	0.2	2WHG
ASG	TYR	B	195	164	E	Strand	-104.11	109.35	0.2	2WHG
ASG	GLY	B	196	165	T	Turn	-91.08	-11.39	1.4	2WHG
ASG	GLY	B	197	166	T	Turn	51.30	-154.03	0.6	2WHG
ASG	CYS	B	198	167	T	Turn	-76.57	-7.08	3.5	2WHG
ASG	ALA	B	199	168	T	Turn	-72.75	-13.73	1.6	2WHG
ASG	VAL	B	200	169	T	Turn	-121.69	133.27	2.0	2WHG
ASG	HIS	B	201	170	T	Turn	-102.74	146.27	1.3	2WHG
ASG	GLU	B	202	171	T	Turn	-69.69	158.93	14.0	2WHG
ASG	LEU	B	203	172	T	Turn	-56.77	-40.75	90.3	2WHG
ASG	SER	B	204	173	T	Turn	-74.05	-8.37	71.9	2WHG
ASG	ARG	B	205	174	T	Turn	-78.74	132.07	18.0	2WHG

ASG	THR	B	206	175	C	Coil	-113.14	-17.10	99.7	2WHG
ASG	SER	B	207	176	C	Coil	-94.84	-178.60	36.4	2WHG
ASG	ALA	B	208	177	T	Turn	-99.65	20.78	0.5	2WHG
ASG	GLY	B	209	178	T	Turn	66.74	-153.54	22.0	2WHG
ASG	ASN	B	210	179	T	Turn	-74.87	116.88	51.8	2WHG
ASG	VAL	B	211	180	T	Turn	-109.07	6.93	35.7	2WHG
ASG	ALA	B	212	181	T	Turn	-51.30	-36.61	78.8	2WHG
ASG	ASP	B	213	182	T	Turn	-114.70	10.75	64.9	2WHG
ASG	ALA	B	214	183	T	Turn	-80.12	159.41	25.1	2WHG
ASG	ASP	B	215	184	T	Turn	-115.51	91.19	57.4	2WHG
ASG	LEU	B	216	185	T	Turn	-64.75	-28.25	47.4	2WHG
ASG	ALA	B	217	186	T	Turn	-64.22	-50.03	68.6	2WHG
ASG	GLU	B	218	187	H	AlphaHelix	-79.78	-30.97	75.8	2WHG
ASG	TRP	B	219	188	H	AlphaHelix	-41.38	-53.34	0.4	2WHG
ASG	PRO	B	220	189	H	AlphaHelix	-66.76	-27.33	13.6	2WHG
ASG	THR	B	221	190	H	AlphaHelix	-71.11	-42.42	46.8	2WHG
ASG	SER	B	222	191	H	AlphaHelix	-62.68	-43.98	0.8	2WHG
ASG	VAL	B	223	192	H	AlphaHelix	-57.66	-39.71	0.8	2WHG
ASG	GLU	B	224	193	H	AlphaHelix	-56.74	-45.02	107.8	2WHG
ASG	ARG	B	225	194	H	AlphaHelix	-59.24	-41.05	75.6	2WHG
ASG	ILE	B	226	195	H	AlphaHelix	-62.45	-47.23	1.6	2WHG
ASG	GLN	B	227	196	H	AlphaHelix	-65.73	-38.35	61.3	2WHG
ASG	LYS	B	228	197	H	AlphaHelix	-64.09	-43.99	178.9	2WHG
ASG	HIS	B	229	198	H	AlphaHelix	-77.38	-24.23	79.8	2WHG
ASG	TYR	B	230	199	T	Turn	-127.31	67.21	5.8	2WHG
ASG	PRO	B	231	200	T	Turn	-76.26	-19.58	77.0	2WHG
ASG	GLU	B	232	201	T	Turn	-94.57	3.34	135.6	2WHG
ASG	ALA	B	233	202	T	Turn	-55.68	134.32	9.5	2WHG
ASG	GLU	B	234	203	T	Turn	-103.51	-50.73	133.1	2WHG
ASG	VAL	B	235	204	E	Strand	-103.42	139.63	43.3	2WHG

ASG	VAL	B	236	205	E	Strand	-127.11	125.72	0.0	2WHG
ASG	ILE	B	237	206	E	Strand	-113.24	120.91	0.0	2WHG
ASG	PRO	B	238	207	T	Turn	-81.49	164.34	0.0	2WHG
ASG	GLY	B	239	208	T	Turn	-61.71	-33.42	0.0	2WHG
ASG	HIS	B	240	209	T	Turn	-134.35	134.52	21.6	2WHG
ASG	GLY	B	241	210	T	Turn	95.83	-163.73	6.3	2WHG
ASG	LEU	B	242	211	C	Coil	-73.11	135.14	85.5	2WHG
ASG	PRO	B	243	212	C	Coil	-69.03	152.53	37.2	2WHG
ASG	GLY	B	244	213	B	Bridge	-146.32	-145.28	25.6	2WHG
ASG	GLY	B	245	214	C	Coil	-111.98	-157.44	17.4	2WHG
ASG	LEU	B	246	215	H	AlphaHelix	-58.90	-18.83	68.7	2WHG
ASG	ASP	B	247	216	H	AlphaHelix	-57.54	-32.90	81.3	2WHG
ASG	LEU	B	248	217	H	AlphaHelix	-56.34	-34.52	1.0	2WHG
ASG	LEU	B	249	218	H	AlphaHelix	-68.52	-40.96	0.6	2WHG
ASG	GLN	B	250	219	H	AlphaHelix	-68.36	-45.22	97.2	2WHG
ASG	HIS	B	251	220	H	AlphaHelix	-51.58	-44.34	35.2	2WHG
ASG	THR	B	252	221	H	AlphaHelix	-58.10	-52.33	0.0	2WHG
ASG	ALA	B	253	222	H	AlphaHelix	-52.85	-47.81	14.8	2WHG
ASG	ASN	B	254	223	H	AlphaHelix	-58.97	-48.27	88.1	2WHG
ASG	VAL	B	255	224	H	AlphaHelix	-60.17	-42.65	8.7	2WHG
ASG	VAL	B	256	225	H	AlphaHelix	-67.62	-46.77	0.2	2WHG
ASG	LYS	B	257	226	H	AlphaHelix	-61.89	-50.07	118.3	2WHG
ASG	ALA	B	258	227	H	AlphaHelix	-44.84	-41.64	64.2	2WHG
ASG	HIS	B	259	228	H	AlphaHelix	-67.43	-37.16	69.1	2WHG
ASG	LYS	B	260	229	H	AlphaHelix	-72.94	-44.25	90.7	2WHG
ASG	ASN	B	261	230	C	Coil	-116.62	360.00	173.5	2WHG