

Appendix 1 : Abbreviations of amino acids used in peptide synthesis

i) Alanine (A)	xi) Threonine (T)
ii) Aspartic acid (D)	xii) Valine (V)
iii) Glutamic acid (E)	xiii) Tyrosine (Y)
iv) Phenylalanine (F)	xiv) Trptophan (W)
v) Glycine (G)	xv) Glutamine (Q)
vi) Isoleucine (I)	xvi) Asparagine (N)
vii) Methionine (M)	xvii) Lysine (K)
viii) Proline (P)	xix) Histidine (H)
ix) Serine (S)	xx) Arginine (R)

Appendix 2 : Schedule for Peptide Synthesis as generated by the Pepmaker programme from Chiron. The 46 peptides (334 amino acids of the carboxyl terminal) synthesized are shown. A synthesis coupling for one day together with dispensing positions is also shown.

GENERAL NET SYNTHESIS SCHEDULE NUMBER : 21

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Description:

Synthesis carried out by Kathy. HHV6 protein selected was the p101

nucleocapsid protein consisting of 858 amino acids. 334

14-mer peptides based on the sequence HHV6-SEQ.ASC

Peptide spacing increment is 7

Segment 1: 46 peptides starting at residue 1

First peptide: [VSLIKDLRDKDGFR]

Last peptide: [PGVAESLGIAAKDK]

Protein sequence: HHV6-SEQ.ASC (334 residues)

1:	VSLIKDLRDK	DGFRKQKKLD	LLGSWTKEKN	DKAIVHSREV	TGDSGDATET
51:	VTARDSPVLR	KTKHANDIFA	GLNKKYARDV	SRGGKGNRSD	LYSGGNAEKK
101:	ETSGKFNVDR	EMTQNEQEPL	PNLMEAAARNA	GEEQYVQAGL	GQRVKNILAE
151:	FTNLISLGEK	GIQDILHNQS	GTELKLPTEN	KLGRESEEEAN	VERILEVSDP
201:	QNLFKNFKLQ	NDLDSVQSPF	RLPNADLSRD	LDSVSFKDAL	DVKLPGNGER
251:	EIDLALQKVK	AGERETSDFK	VGQDETLIPT	QLMKVETPEE	KDDVIEKMVL
301:	RIRQDGETDE	ETVPGPGVAE	SLGIAAKDKS	VIAS	

Amino Acid set to be used - AASET1

aaset 1:Free acid L-Fmoc amino acids - DIC/HOBt chemistry

Positive Control Peptide PLAQ

Negative Control Peptide GLAQ

Number of copies of each peptide 2

Schedule based on a 150 microlitre fill/well

(Well concentration is 60 mM)

GENERAL NET SYNTHESIS SCHEDULE NUMBER : 21

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Amino terminus is printed on the left

1 A 1(1,2)PLAQ <
2 A 2(1,2)GLAQ <
3 A 3(1,2)VSLIKDLRDKDGFR<
4 A 4(1,2)RDKDGFRRQKKLDL<
5 A 5(1,2)QKKLDLLGSWTKE<
6 A 6(1,2)LGSWTKEKNDKAIV<
7 A 7(1,2)KNDKAIVHSREVTG<
8 A 8(1,2)HSREVTGDSGDATE<
9 A 9(1,2)DSGDATETVTARDS<
10 A10(1,2)TVTARDSPVLRRKTK<
11 A11(1,2)PVLRRKTKHANDIFA<
12 A12(1,2)HANDIFAGLNKKYA<
13 A 1(3,4)GLNKKYARDVSRGG<
14 A 2(3,4)RDVSRGGKGNRDL<
15 A 3(3,4)KGNRDLYSGGNAE<
16 A 4(3,4)YSGGNAEKKETSGK<
17 A 5(3,4)KKETSGKFNVDKEM<
18 A 6(3,4)FNVDKEMTQNEQEP<
19 A 7(3,4)TQNEQEPLPNLMEA<
20 A 8(3,4)LPNLMEAARNAGEE<
21 A 9(3,4)ARNAGEEQYVQAGL<
22 A10(3,4)QYVQAGLGQRVNKI<
23 A11(3,4)GQRVNKLAEFTNL<
24 A12(3,4)LAFTNLISLGEKG<
25 A 1(5,6)ISLGEKGIQDILHN<
26 A 2(5,6)IQDILHNQSGTELK<
27 A 3(5,6)QSGTEKLPTENKL<
28 A 4(5,6)LPTEKLGRESEEA<
29 A 5(5,6)GRESEEANVERILE<
30 A 6(5,6)NVERILEVSDPQNL<
31 A 7(5,6)VSDPQNLFKNFKLQ<
32 A 8(5,6)FKNFKLQNDLDSVQ<
33 A 9(5,6)NDLDSVQSPFRLPN<
34 A10(5,6)SPFRLPNADLSRDL<
35 A11(5,6)ADLSRDLDSVSFKD<
36 A12(5,6)DSVSFKDALDVKLK<
37 A 1(7,8)ALDVKLPGNGEREI<
38 A 2(7,8)NGEREIDLALQKV<
39 A 3(7,8)DLALQVKAGERET<
40 A 4(7,8)KAGERETSDFKVGQ<
41 A 5(7,8)SDFKVGQDETLIPT<
42 A 6(7,8)DETLIPTQLMKVET<
43 A 7(7,8)QLMKVETPEEKDDV<
44 A 8(7,8)PEEKDDVIEKMLVR<
45 A 9(7,8)IEKMLVLRIRDGET<
46 A10(7,8)IRDGETDEETVPG<
47 A11(7,8)DEETVPGPGVAESL<
48 A12(7,8)PGVAESLGIAAKDK<

GENERAL NET SYNTHESIS SCHEDULE NUMBER : 21

Page 1

Bulk solutions for activator and/or additives (96 wells)

Chemistry Group 1 data for synthesis coupling 1

Activator : DIC requires 151.4 mg in 4.00 ml of DMF

Additive 1: HOBt requires 199.9 mg in 14.5 ml of DMF

WEIGHTS FOR INDIVIDUAL AMINO ACID SOLUTIONS

AA #	Amino acid description	Batch	Weight (mg)		DMF (ml)	DIC (ml)	HOBt (ml)
			Target	Actual			
A 8	Fmoc-L-Ala-OH.H ₂ O	.....	29.1	.....	0.00	0.29	1.18
D 2	Fmoc-L-Asp(OtBu)-OH	.....	13.7	.....	0.00	0.11	0.44
E 10	Fmoc-L-Glu(OtBu)-OH.H ₂ O	.....	47.4	.....	0.00	0.36	1.42
G 8	Fmoc-Gly-OH	.....	26.3	.....	0.00	0.29	1.18
I 4	Fmoc-L-Ile-OH	.....	18.3	.....	0.00	0.17	0.69
K 8	Fmoc-L-Lys(Boc)-OH	.....	41.4	.....	0.00	0.29	1.18
L 16	Fmoc-L-Leu-OH	.....	57.2	.....	0.00	0.54	2.16
M 2	Fmoc-L-Met-OH	.....	12.4	.....	0.00	0.11	0.44
N 4	Fmoc-L-Asn(Trt)-OH	.....	30.9	.....	0.00	0.17	0.69
P 4	Fmoc-L-Pro-OH	.....	17.5	.....	0.00	0.17	0.69
Q 6	Fmoc-L-Gln(trt)-OH	.....	42.8	.....	0.00	0.23	0.93
R 4	Fmoc-L-Arg(PMC)-OH.3IPE	.....	35.9	.....	0.00	0.17	0.69
S 2	Fmoc-L-Ser(tBu)-OH	.....	12.8	.....	0.00	0.11	0.44
T 8	Fmoc-L-Thr(tBu)-OH	.....	35.2	.....	0.00	0.29	1.18
V 6	Fmoc-L-Val-OH	.....	23.8	.....	0.00	0.23	0.93
					0.00	3.57	14.26

Amino acids weighed by :..... Date:.....

Solutions prepared by :..... Date:.....

GENERAL NET SYNTHESIS SCHEDULE NUMBER : 21

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PIN POSITIONS for Synthesis coupling 1

NEW PIN POSITIONS

A 3(1,2) TO A12(7,8)

Well positions for amino acid dispensing

A A11(1,2) TO A12(1,2) A 7(3,4) A 4(5,6)

D A11(5,6)

E A 5(1,2) A 8(1,2) A 3(3,4) A 8(3,4) A 5(5,6)

G A 7(1,2) A 1(3,4) A12(3,4) A10(7,8)

I A10(3,4) A 1(7,8)

K A10(1,2) A 4(3,4) A 2(5,6) A12(7,8)

L A 4(1,2) A 2(3,4) A 9(3,4) A11(3,4) A 3(5,6) A 6(5,6) A10(5,6)
A11(7,8)

M A 5(3,4)

N A 1(5,6) A 9(5,6)

P A 6(3,4) A12(5,6)

Q A 7(5,6) TO A 8(5,6) A 4(7,8)

R A 3(1,2) A 8(7,8)

S A 9(1,2)

T A 3(7,8) A 5(7,8) TO A 6(7,8) A 9(7,8)

V A 6(1,2) A 2(7,8) A 7(7,8)

Appendix 3: Numbering system as recommended by manufacturer. Assuming that this is block A, the filled wells are identified as A1(1,2), A6(5,6) and A11(3,4).

		COLUMN NUMBER							
		1	2	3	4	5	6	7	8
ROW		H	G	F	E	D	C	B	A
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								

Appendix 4: Hydropathy plot: Numerical values for hydrophilicity according to the Hopp and Woods method. The hydrophilicity plot of the 334 amino acids from the carboxyl terminal is depicted in Figure 3.25.

Scale: Hydrophilicity.

Window size: 9

Scale not normalized.

Relative weight for window edges: 100 %

Weight variation model: linear

Position: 5	Score: 0.600
Position: 6	Score: 1.100
Position: 7	Score: 1.400
Position: 8	Score: 1.600
Position: 9	Score: 1.522
Position: 10	Score: 1.522
Position: 11	Score: 1.522
Position: 12	Score: 1.744
Position: 13	Score: 1.744
Position: 14	Score: 1.744
Position: 15	Score: 1.211
Position: 16	Score: 1.211
Position: 17	Score: 1.011
Position: 18	Score: 1.089
Position: 19	Score: 0.756
Position: 20	Score: 0.456
Position: 21	Score: 0.056
Position: 22	Score: -0.322
Position: 23	Score: -0.322
Position: 24	Score: 0.211
Position: 25	Score: 0.211
Position: 26	Score: 0.433
Position: 27	Score: 0.967
Position: 28	Score: 1.300
Position: 29	Score: 1.211
Position: 30	Score: 1.389
Position: 31	Score: 1.267
Position: 32	Score: 0.878
Position: 33	Score: 0.578
Position: 34	Score: 0.578
Position: 35	Score: 0.889
Position: 36	Score: 0.389
Position: 37	Score: 0.011
Position: 38	Score: 0.067
Position: 39	Score: 0.600
Position: 40	Score: 0.800
Position: 41	Score: 0.856
Position: 42	Score: 1.156
Position: 43	Score: 0.767
Position: 44	Score: 0.389
Position: 45	Score: 0.889
Position: 46	Score: 0.889
Position: 47	Score: 0.722
Position: 48	Score: 0.344
Position: 49	Score: 0.256

ProtScale Scores

Position: 50	Score: 0.589
Position: 51	Score: 0.589
Position: 52	Score: 0.670
Position: 53	Score: 0.722
Position: 54	Score: 0.222
Position: 55	Score: 0.067
Position: 56	Score: 0.567
Position: 57	Score: 0.944
Position: 58	Score: 0.956
Position: 59	Score: 0.956
Position: 60	Score: 0.567
Position: 61	Score: 0.478
Position: 62	Score: 0.500
Position: 63	Score: 1.000
Position: 64	Score: 1.000
Position: 65	Score: 0.389
Position: 66	Score: 0.000
Position: 67	Score: 0.044
Position: 68	Score: -0.489
Position: 69	Score: -0.411
Position: 70	Score: -0.022
Position: 71	Score: 0.289
Position: 72	Score: -0.300
Position: 73	Score: -0.156
Position: 74	Score: 0.456
Position: 75	Score: 0.844
Position: 76	Score: 0.678
Position: 77	Score: 0.911
Position: 78	Score: 1.222
Position: 79	Score: 0.889
Position: 80	Score: 0.556
Position: 81	Score: 1.144
Position: 82	Score: 1.200
Position: 83	Score: 0.889
Position: 84	Score: 0.589
Position: 85	Score: 1.089
Position: 86	Score: 1.389
Position: 87	Score: 0.856
Position: 88	Score: 0.600
Position: 89	Score: 0.633
Position: 90	Score: 0.300
Position: 91	Score: 0.300
Position: 92	Score: 0.300
Position: 93	Score: 0.211
Position: 94	Score: 0.211
Position: 95	Score: 0.211
Position: 96	Score: 0.744
Position: 97	Score: 1.333
Position: 98	Score: 1.256
Position: 99	Score: 1.289
Position: 100	Score: 1.289
Position: 101	Score: 1.600
Position: 102	Score: 1.378
Position: 103	Score: 1.067
Position: 104	Score: 0.567
Position: 105	Score: 0.567
Position: 106	Score: 0.567
Position: 107	Score: 0.944
Position: 108	Score: 0.767
Position: 109	Score: 0.722
Position: 110	Score: 0.411
Position: 111	Score: 0.711
Position: 112	Score: 1.022
Position: 113	Score: 1.211
Position: 114	Score: 1.211
Position: 115	Score: 0.878
Position: 116	Score: 0.344
Position: 117	Score: 0.489
Position: 118	Score: 0.567

ProtScale Scores

Position: 119	Score: 0.333
Position: 120	Score: 0.167
Position: 121	Score: 0.167
Position: 122	Score: 0.089
Position: 123	Score: -0.300
Position: 124	Score: 0.033
Position: 125	Score: 0.256
Position: 126	Score: 0.200
Position: 127	Score: 0.178
Position: 128	Score: 0.711
Position: 129	Score: 1.189
Position: 130	Score: 0.878
Position: 131	Score: 0.678
Position: 132	Score: 0.567
Position: 133	Score: 0.256
Position: 134	Score: 0.178
Position: 135	Score: 0.233
Position: 136	Score: 0.033
Position: 137	Score: -0.300
Position: 138	Score: -0.611
Position: 139	Score: -0.300
Position: 140	Score: -0.211
Position: 141	Score: -0.022
Position: 142	Score: 0.289
Position: 143	Score: 0.144
Position: 144	Score: -0.056
Position: 145	Score: 0.089
Position: 146	Score: 0.422
Position: 147	Score: 0.122
Position: 148	Score: -0.256
Position: 149	Score: -0.067
Position: 150	Score: -0.289
Position: 151	Score: -0.822 (min)
Position: 152	Score: -0.589
Position: 153	Score: -0.589
Position: 154	Score: -0.533
Position: 155	Score: -0.533
Position: 156	Score: 0.078
Position: 157	Score: 0.122
Position: 158	Score: -0.100
Position: 159	Score: 0.122
Position: 160	Score: 0.656
Position: 161	Score: 0.422
Position: 162	Score: 0.422
Position: 163	Score: 0.367
Position: 164	Score: 0.056
Position: 165	Score: -0.256
Position: 166	Score: -0.222
Position: 167	Score: -0.022
Position: 168	Score: -0.089
Position: 169	Score: -0.089
Position: 170	Score: -0.089
Position: 171	Score: 0.444
Position: 172	Score: 0.300
Position: 173	Score: 0.278
Position: 174	Score: 0.211
Position: 175	Score: 0.511
Position: 176	Score: 0.533
Position: 177	Score: 0.911
Position: 178	Score: 0.378
Position: 179	Score: 0.578
Position: 180	Score: 0.578
Position: 181	Score: 1.111
Position: 182	Score: 1.144
Position: 183	Score: 1.522
Position: 184	Score: 1.522
Position: 185	Score: 1.444
Position: 186	Score: 1.133

ProtScale Scores

Position: 188	Score: 1.500
Position: 189	Score: 1.500
Position: 190	Score: 0.967
Position: 191	Score: 0.733
Position: 192	Score: 0.733
Position: 193	Score: 0.233
Position: 194	Score: 0.322
Position: 195	Score: 0.633
Position: 196	Score: 0.800
Position: 197	Score: 0.489
Position: 198	Score: 0.178
Position: 199	Score: 0.178
Position: 200	Score: 0.100
Position: 201	Score: 0.100
Position: 202	Score: 0.289
Position: 203	Score: -0.022
Position: 204	Score: -0.022
Position: 205	Score: -0.222
Position: 206	Score: -0.222
Position: 207	Score: -0.222
Position: 208	Score: 0.311
Position: 209	Score: 0.389
Position: 210	Score: 0.389
Position: 211	Score: 0.400
Position: 212	Score: 0.511
Position: 213	Score: 0.200
Position: 214	Score: 0.433
Position: 215	Score: 0.411
Position: 216	Score: 0.111
Position: 217	Score: 0.111
Position: 218	Score: 0.111
Position: 219	Score: -0.222
Position: 220	Score: -0.233
Position: 221	Score: -0.122
Position: 222	Score: 0.189
Position: 223	Score: -0.044
Position: 224	Score: -0.011
Position: 225	Score: 0.600
Position: 226	Score: 0.600
Position: 227	Score: 0.600
Position: 228	Score: 0.933
Position: 229	Score: 0.944
Position: 230	Score: 0.833
Position: 231	Score: 0.533
Position: 232	Score: 0.456
Position: 233	Score: 0.756
Position: 234	Score: 0.756
Position: 235	Score: 0.367
Position: 236	Score: 0.367
Position: 237	Score: 0.367
Position: 238	Score: 0.167
Position: 239	Score: 0.667
Position: 240	Score: 0.433
Position: 241	Score: 0.711
Position: 242	Score: 0.378
Position: 243	Score: 0.067
Position: 244	Score: 0.122
Position: 245	Score: 0.656
Position: 246	Score: 0.656
Position: 247	Score: 1.156
Position: 248	Score: 0.622
Position: 249	Score: 1.156
Position: 250	Score: 0.956
Position: 251	Score: 0.900
Position: 252	Score: 0.678
Position: 253	Score: 0.700
Position: 254	Score: 0.700
Position: 255	Score: 0.200

ProtScale Scores

Position: 257	Score: 0.344
Position: 258	Score: 0.011
Position: 259	Score: 0.544
Position: 260	Score: 0.933
Position: 261	Score: 1.467
Position: 262	Score: 1.400
Position: 263	Score: 1.100
Position: 264	Score: 1.600
Position: 265	Score: 0.989
Position: 266	Score: 1.378
Position: 267	Score: 1.211
Position: 268	Score: 0.878
Position: 269	Score: 0.567
Position: 270	Score: 0.567
Position: 271	Score: 0.944
Position: 272	Score: 0.867
Position: 273	Score: 0.333
Position: 274	Score: 0.411
Position: 275	Score: 0.078
Position: 276	Score: 0.200
Position: 277	Score: 0.222
Position: 278	Score: -0.000
Position: 279	Score: -0.478
Position: 280	Score: -0.478
Position: 281	Score: -0.600
Position: 282	Score: -0.067
Position: 283	Score: 0.089
Position: 284	Score: 0.089
Position: 285	Score: 0.467
Position: 286	Score: 0.778
Position: 287	Score: 1.311
Position: 288	Score: 1.789
Position: 289	Score: 1.789
Position: 290	Score: 1.789
Position: 291	Score: 1.256
Position: 292	Score: 1.633
Position: 293	Score: 1.967
Position: 294	Score: 1.489
Position: 295	Score: 0.989
Position: 296	Score: 0.156
Position: 297	Score: 0.456
Position: 298	Score: -0.078
Position: 299	Score: 0.422
Position: 300	Score: 0.644
Position: 301	Score: 0.644
Position: 302	Score: 0.311
Position: 303	Score: 0.789
Position: 304	Score: 0.911
Position: 305	Score: 1.444
Position: 306	Score: 1.444
Position: 307	Score: 1.978 (max)
Position: 308	Score: 1.600
Position: 309	Score: 1.411
Position: 310	Score: 1.078
Position: 311	Score: 1.078
Position: 312	Score: 0.744
Position: 313	Score: 0.789
Position: 314	Score: 0.289
Position: 315	Score: -0.100
Position: 316	Score: -0.100
Position: 317	Score: -0.022
Position: 318	Score: -0.056
Position: 319	Score: -0.056
Position: 320	Score: -0.256
Position: 321	Score: -0.311
Position: 322	Score: -0.367
Position: 323	Score: 0.133
Position: 324	Score: 0.522

<http://expasy.hcuge.ch/tmp/scores3856.html>

ProtScale Scores

Position: 326	Score: 0.522
Position: 327	Score: 0.556
Position: 328	Score: 0.356
Position: 329	Score: 0.500
Position: 330	Score: 0.589

Appendix 5: Surface accessibility plot: Numerical values for surface accessibility. The surface accessibility plot of the 334 amino acids from the carboxyl terminal is depicted in Figure 3.26.

Scale: Molar fraction (%) of 3220 accessible residues.

Window size: 9

Scale not normalized.

Relative weight for window edges: 100 %

Weight variation model: linear

Position: 5	Score: 6.278
Position: 6	Score: 6.922
Position: 7	Score: 6.733
Position: 8	Score: 6.944
Position: 9	Score: 6.900
Position: 10	Score: 6.256
Position: 11	Score: 6.541
Position: 12	Score: 6.589
Position: 13	Score: 7.233
Position: 14	Score: 7.522
Position: 15	Score: 6.911
Position: 16	Score: 6.911
Position: 17	Score: 6.700
Position: 18	Score: 6.967
Position: 19	Score: 7.211
Position: 20	Score: 7.111
Position: 21	Score: 6.689
Position: 22	Score: 6.322
Position: 23	Score: 6.322
Position: 24	Score: 6.422
Position: 25	Score: 6.711
Position: 26	Score: 6.922
Position: 27	Score: 7.244
Position: 28	Score: 7.644
Position: 29	Score: 7.333
Position: 30	Score: 7.489
Position: 31	Score: 7.211
Position: 32	Score: 6.344
Position: 33	Score: 6.756
Position: 34	Score: 6.111
Position: 35	Score: 6.000
Position: 36	Score: 5.644
Position: 37	Score: 5.278
Position: 38	Score: 5.289
Position: 39	Score: 5.833
Position: 40	Score: 6.378
Position: 41	Score: 6.844
Position: 42	Score: 6.656
Position: 43	Score: 6.889
Position: 44	Score: 7.033
Position: 45	Score: 7.167
Position: 46	Score: 7.167
Position: 47	Score: 6.922
Position: 48	Score: 6.844
Position: 49	Score: 6.533

ProtScale Scores

Position: 50	Score: 6.289
Position: 51	Score: 6.289
Position: 52	Score: 6.600
Position: 53	Score: 6.356
Position: 54	Score: 6.222
Position: 55	Score: 5.978
Position: 56	Score: 5.978
Position: 57	Score: 6.344
Position: 58	Score: 6.389
Position: 59	Score: 7.033
Position: 60	Score: 6.456
Position: 61	Score: 6.144
Position: 62	Score: 6.356
Position: 63	Score: 6.711
Position: 64	Score: 6.489
Position: 65	Score: 6.256
Position: 66	Score: 5.844
Position: 67	Score: 5.811
Position: 68	Score: 5.200
Position: 69	Score: 5.667
Position: 70	Score: 6.078
Position: 71	Score: 6.478
Position: 72	Score: 6.189
Position: 73	Score: 6.611
Position: 74	Score: 6.844
Position: 75	Score: 6.967
Position: 76	Score: 6.722
Position: 77	Score: 7.233
Position: 78	Score: 6.989
Position: 79	Score: 6.589
Position: 80	Score: 6.189
Position: 81	Score: 6.767
Position: 82	Score: 6.778
Position: 83	Score: 7.022
Position: 84	Score: 7.211
Position: 85	Score: 7.211
Position: 86	Score: 7.022
Position: 87	Score: 7.056
Position: 88	Score: 6.878
Position: 89	Score: 7.178
Position: 90	Score: 6.778
Position: 91	Score: 6.778
Position: 92	Score: 6.778
Position: 93	Score: 6.467
Position: 94	Score: 6.600
Position: 95	Score: 6.889
Position: 96	Score: 7.500
Position: 97	Score: 7.567
Position: 98	Score: 7.300
Position: 99	Score: 7.600
Position: 100	Score: 7.600
Position: 101	Score: 8.000 (max)
Position: 102	Score: 7.533
Position: 103	Score: 7.644
Position: 104	Score: 7.000
Position: 105	Score: 6.711
Position: 106	Score: 7.222
Position: 107	Score: 7.078
Position: 108	Score: 6.144
Position: 109	Score: 6.178
Position: 110	Score: 5.611
Position: 111	Score: 6.089
Position: 112	Score: 5.978
Position: 113	Score: 6.056
Position: 114	Score: 5.833
Position: 115	Score: 5.222
Position: 116	Score: 5.122
Position: 117	Score: 5.544

ProtScale Scores

Position: 119	Score: 5.467
Position: 120	Score: 4.833
Position: 121	Score: 4.033
Position: 122	Score: 4.989
Position: 123	Score: 5.089
Position: 124	Score: 5.056
Position: 125	Score: 5.267
Position: 126	Score: 5.467
Position: 127	Score: 5.467
Position: 128	Score: 5.567
Position: 129	Score: 6.089
Position: 130	Score: 6.033
Position: 131	Score: 5.867
Position: 132	Score: 5.633
Position: 133	Score: 5.711
Position: 134	Score: 5.700
Position: 135	Score: 5.711
Position: 136	Score: 5.500
Position: 137	Score: 5.611
Position: 138	Score: 5.556
Position: 139	Score: 5.478
Position: 140	Score: 5.411
Position: 141	Score: 5.656
Position: 142	Score: 6.222
Position: 143	Score: 5.800
Position: 144	Score: 5.589
Position: 145	Score: 5.789
Position: 146	Score: 5.678
Position: 147	Score: 5.367
Position: 148	Score: 5.644
Position: 149	Score: 5.889
Position: 150	Score: 5.678
Position: 151	Score: 4.844
Position: 152	Score: 5.578
Position: 153	Score: 5.578
Position: 154	Score: 5.589
Position: 155	Score: 5.589
Position: 156	Score: 6.467
Position: 157	Score: 6.433
Position: 158	Score: 6.000
Position: 159	Score: 6.044
Position: 160	Score: 6.589
Position: 161	Score: 5.856
Position: 162	Score: 5.856
Position: 163	Score: 5.389
Position: 164	Score: 5.500
Position: 165	Score: 4.933
Position: 166	Score: 5.233
Position: 167	Score: 5.667
Position: 168	Score: 5.867
Position: 169	Score: 5.644
Position: 170	Score: 5.867
Position: 171	Score: 6.478
Position: 172	Score: 6.733
Position: 173	Score: 6.522
Position: 174	Score: 6.722
Position: 175	Score: 6.311
Position: 176	Score: 6.311
Position: 177	Score: 6.678
Position: 178	Score: 6.578
Position: 179	Score: 6.789
Position: 180	Score: 6.144
Position: 181	Score: 6.244
Position: 182	Score: 6.756
Position: 183	Score: 6.611
Position: 184	Score: 6.611
Position: 185	Score: 6.600
Position: 186	Score: 6.200

ProtScale Scores

Position: 188	Score: 6.056
Position: 189	Score: 6.056
Position: 190	Score: 5.733
Position: 191	Score: 5.222
Position: 192	Score: 5.222
Position: 193	Score: 5.089
Position: 194	Score: 5.400
Position: 195	Score: 5.511
Position: 196	Score: 5.544
Position: 197	Score: 5.489
Position: 198	Score: 5.733
Position: 199	Score: 5.956
Position: 200	Score: 5.689
Position: 201	Score: 6.200
Position: 202	Score: 6.444
Position: 203	Score: 5.667
Position: 204	Score: 5.956
Position: 205	Score: 5.956
Position: 206	Score: 5.956
Position: 207	Score: 5.956
Position: 208	Score: 6.278
Position: 209	Score: 6.544
Position: 210	Score: 6.256
Position: 211	Score: 6.556
Position: 212	Score: 6.789
Position: 213	Score: 6.222
Position: 214	Score: 6.733
Position: 215	Score: 6.689
Position: 216	Score: 6.211
Position: 217	Score: 5.856
Position: 218	Score: 5.856
Position: 219	Score: 5.533
Position: 220	Score: 5.233
Position: 221	Score: 5.467
Position: 222	Score: 5.744
Position: 223	Score: 5.233
Position: 224	Score: 5.744
Position: 225	Score: 5.978
Position: 226	Score: 6.333
Position: 227	Score: 6.333
Position: 228	Score: 6.656
Position: 229	Score: 6.956
Position: 230	Score: 6.722
Position: 231	Score: 6.911
Position: 232	Score: 6.644
Position: 233	Score: 6.744
Position: 234	Score: 7.100
Position: 235	Score: 6.978
Position: 236	Score: 6.978
Position: 237	Score: 6.978
Position: 238	Score: 6.433
Position: 239	Score: 7.078
Position: 240	Score: 6.567
Position: 241	Score: 6.833
Position: 242	Score: 6.433
Position: 243	Score: 6.322
Position: 244	Score: 6.333
Position: 245	Score: 6.433
Position: 246	Score: 6.078
Position: 247	Score: 6.211
Position: 248	Score: 5.378
Position: 249	Score: 5.700
Position: 250	Score: 5.700
Position: 251	Score: 5.689
Position: 252	Score: 5.478
Position: 253	Score: 5.311
Position: 254	Score: 5.822
Position: 255	Score: 5.822
Position: 256	Score: 6.222

ProtScale Scores

Position: 257	Score: 6.756
Position: 258	Score: 6.644
Position: 259	Score: 6.744
Position: 260	Score: 6.511
Position: 261	Score: 6.611
Position: 262	Score: 6.811
Position: 263	Score: 6.711
Position: 264	Score: 7.067
Position: 265	Score: 6.189
Position: 266	Score: 6.600
Position: 267	Score: 6.356
Position: 268	Score: 6.467
Position: 269	Score: 6.544
Position: 270	Score: 6.767
Position: 271	Score: 6.622
Position: 272	Score: 6.356
Position: 273	Score: 6.033
Position: 274	Score: 6.078
Position: 275	Score: 5.467
Position: 276	Score: 5.744
Position: 277	Score: 5.578
Position: 278	Score: 5.533
Position: 279	Score: 4.789
Position: 280	Score: 5.300
Position: 281	Score: 5.022
Position: 282	Score: 5.122
Position: 283	Score: 5.589
Position: 284	Score: 5.589
Position: 285	Score: 5.444
Position: 286	Score: 5.500
Position: 287	Score: 6.111
Position: 288	Score: 6.856
Position: 289	Score: 6.567
Position: 290	Score: 6.567
Position: 291	Score: 6.244
Position: 292	Score: 6.100
Position: 293	Score: 6.711
Position: 294	Score: 6.189
Position: 295	Score: 6.056
Position: 296	Score: 5.444
Position: 297	Score: 5.089
Position: 298	Score: 4.544
Position: 299	Score: 4.544
Position: 300	Score: 4.811
Position: 301	Score: 5.033
Position: 302	Score: 4.633
Position: 303	Score: 5.156
Position: 304	Score: 5.433
Position: 305	Score: 5.756
Position: 306	Score: 5.889
Position: 307	Score: 6.211
Position: 308	Score: 6.489
Position: 309	Score: 6.411
Position: 310	Score: 6.089
Position: 311	Score: 6.089
Position: 312	Score: 5.989
Position: 313	Score: 5.956
Position: 314	Score: 5.600
Position: 315	Score: 5.700
Position: 316	Score: 5.700
Position: 317	Score: 5.967
Position: 318	Score: 6.000
Position: 319	Score: 6.211
Position: 320	Score: 5.778
Position: 321	Score: 5.978
Position: 322	Score: 5.967
Position: 323	Score: 6.611
Position: 324	Score: 6.733
Position: 325	Score: 7.244

<http://expasy.hcuge.ch/tmp/scores2156.html>

ProtScale Scores

Position: 326	Score: 7.244
Position: 327	Score: 7.211
Position: 328	Score: 6.778
Position: 329	Score: 7.200
Position: 330	Score: 7.511

Appendix 6: Secondary structure predictions : Numerical values for secondary structure for the 334 amino acids according to the NNPREDICT programme from SWISSPROT. (Figure 3.27). The probe showing the highest numerical value becomes the secondary structure of choice for that particular amino acid.

NO.	RES	DSC_SEC	PROB_H	PROB_E	PROB_C
1	v	C	0.239	0.180	0.581
2	s	C	0.194	0.267	0.539
3	l	H	0.422	0.216	0.362
4	i	H	0.790	0.067	0.143
5	k	H	0.751	0.065	0.184
6	d	H	0.589	0.036	0.375
7	l	H	0.517	0.046	0.437
8	r	C	0.366	0.042	0.592
9	d	C	0.255	0.051	0.694
10	k	C	0.366	0.042	0.592
11	d	H	0.517	0.046	0.437
12	g	H	0.589	0.036	0.375
13	f	H	0.723	0.020	0.257
14	r	H	0.877	0.004	0.119
15	k	H	0.877	0.004	0.119
16	q	H	0.723	0.020	0.257
17	k	H	0.589	0.036	0.375
18	k	H	0.662	0.080	0.259
19	l	C	0.400	0.100	0.500
20	d	C	0.393	0.150	0.457
21	l	H	0.519	0.156	0.325
22	l	H	0.517	0.046	0.437
23	g	H	0.517	0.046	0.437
24	s	H	0.517	0.046	0.437
25	w	H	0.589	0.036	0.375
26	t	H	0.484	0.118	0.398
27	k	H	0.517	0.046	0.437
28	e	H	0.517	0.046	0.437
29	k	C	0.255	0.051	0.694
30	n	C	0.255	0.051	0.694
31	d	C	0.366	0.042	0.592
32	k	C	0.400	0.100	0.500
33	a	C	0.400	0.100	0.500
34	i	E	0.276	0.512	0.212
35	v	E	0.098	0.771	0.131
36	h	E	0.163	0.589	0.248
37	s	E	0.198	0.418	0.384
38	r	E	0.198	0.418	0.384
39	e	E	0.198	0.418	0.384
40	v	E	0.092	0.511	0.397
41	t	C	0.119	0.260	0.621
42	g	C	0.062	0.121	0.817
43	d	C	0.062	0.088	0.850
44	s	C	0.088	0.085	0.827
45	g	C	0.070	0.040	0.890
46	d	C	0.091	0.027	0.882
47	a	C	0.207	0.122	0.671
48	t	C	0.249	0.234	0.517
49	e	E	0.163	0.589	0.248
50	t	E	0.126	0.680	0.194
51	v	E	0.126	0.680	0.194
52	t	E	0.092	0.511	0.397
53	a	C	0.239	0.180	0.581
54	r	C	0.189	0.138	0.673
55	d	C	0.207	0.122	0.671

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56	s	C	0.185	0.021	0.794
57	p	H	0.589	0.036	0.375
58	v	H	0.077	0.004	0.119
59	l	H	0.905	0.015	0.080
60	r	H	0.905	0.015	0.080
61	k	H	0.905	0.015	0.080
62	t	H	0.877	0.004	0.119
63	k	H	0.589	0.036	0.375
64	h	H	0.589	0.036	0.375
65	a	H	0.589	0.036	0.375
66	n	H	0.589	0.036	0.375
67	d	H	0.905	0.015	0.080
68	i	H	0.945	0.014	0.041
69	f	H	0.893	0.032	0.075
70	a	H	0.945	0.014	0.041
71	g	H	0.589	0.036	0.375
72	l	H	0.589	0.036	0.375
73	n	H	0.517	0.046	0.437
74	k	C	0.400	0.100	0.500
75	k	C	0.366	0.042	0.592
76	y	H	0.517	0.046	0.437
77	a	H	0.723	0.020	0.257
78	r	H	0.877	0.004	0.119
79	d	H	0.945	0.014	0.041
80	v	H	0.910	0.036	0.054
81	s	H	0.893	0.032	0.075
82	r	H	0.751	0.065	0.184
83	g	C	0.366	0.042	0.592
84	g	C	0.087	0.020	0.893
85	k	C	0.070	0.040	0.890
86	g	C	0.110	0.069	0.821
87	n	C	0.088	0.085	0.827
88	s	C	0.091	0.215	0.694
89	r	C	0.302	0.299	0.399
90	d	C	0.400	0.100	0.500
91	l	C	0.400	0.100	0.500
92	y	H	0.662	0.080	0.259
93	s	H	0.517	0.046	0.437
94	g	C	0.185	0.021	0.794
95	g	C	0.087	0.020	0.893
96	n	C	0.091	0.027	0.882
97	a	C	0.255	0.051	0.694
98	e	C	0.319	0.128	0.553
99	k	C	0.393	0.150	0.457
100	k	C	0.400	0.100	0.500
101	e	C	0.302	0.299	0.399
102	t	C	0.393	0.150	0.457
103	s	C	0.091	0.215	0.694
104	g	C	0.101	0.175	0.725
105	k	C	0.181	0.348	0.471
106	f	C	0.067	0.365	0.560
107	n	C	0.181	0.348	0.471
108	v	C	0.194	0.267	0.539
109	d	C	0.319	0.128	0.553
110	k	C	0.400	0.100	0.500
111	e	C	0.400	0.100	0.500
112	m	H	0.589	0.036	0.375
113	t	H	0.517	0.046	0.437
114	q	C	0.366	0.042	0.592
115	n	C	0.255	0.051	0.694
116	e	C	0.255	0.051	0.694
117	q	C	0.255	0.051	0.694
118	e	C	0.185	0.021	0.794
119	p	C	0.255	0.051	0.694
120	l	C	0.366	0.042	0.592
121	p	H	0.877	0.004	0.119
122	n	H	0.877	0.004	0.119
123	l	H	0.905	0.015	0.080
124	m	H	0.945	0.014	0.041

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125	e	H	0.905	0.015	0.080
126	a	H	0.877	0.004	0.119
127	a	H	0.877	0.004	0.119
128	r	H	0.877	0.004	0.119
129	n	H	0.723	0.020	0.257
130	a	H	0.589	0.036	0.375
131	g	H	0.517	0.046	0.437
132	e	H	0.723	0.020	0.257
133	e	H	0.877	0.004	0.119
134	q	H	0.910	0.036	0.054
135	y	H	0.980	0.010	0.010
136	v	H	0.851	0.085	0.064
137	q	H	0.686	0.149	0.165
138	a	H	0.790	0.067	0.143
139	g	C	0.319	0.128	0.553
140	l	C	0.255	0.051	0.694
141	g	C	0.255	0.051	0.694
142	q	H	0.517	0.046	0.437
143	r	H	0.589	0.036	0.375
144	v	H	0.905	0.015	0.080
145	n	H	0.905	0.015	0.080
146	k	H	0.945	0.014	0.041
147	i	H	0.945	0.014	0.041
148	l	H	0.945	0.014	0.041
149	a	H	0.905	0.015	0.080
150	e	H	0.751	0.065	0.184
151	f	H	0.751	0.065	0.184
152	t	H	0.790	0.067	0.143
153	n	H	0.662	0.080	0.259
154	l	H	0.745	0.119	0.136
155	i	H	0.686	0.149	0.165
156	s	H	0.662	0.080	0.259
157	l	H	0.517	0.046	0.437
158	g	C	0.366	0.042	0.592
159	e	C	0.400	0.100	0.500
160	k	C	0.366	0.042	0.592
161	g	C	0.366	0.042	0.592
162	i	H	0.589	0.036	0.375
163	q	H	0.905	0.015	0.080
164	d	H	0.910	0.036	0.054
165	i	H	0.914	0.052	0.034
166	l	H	0.686	0.149	0.165
167	h	H	0.751	0.065	0.184
168	n	H	0.517	0.046	0.437
169	q	C	0.366	0.042	0.592
170	s	C	0.255	0.051	0.694
171	g	C	0.185	0.021	0.794
172	t	C	0.239	0.180	0.581
173	e	C	0.275	0.330	0.395
174	l	C	0.100	0.400	0.500
175	k	C	0.100	0.400	0.500
176	l	C	0.130	0.429	0.441
177	p	C	0.249	0.234	0.517
178	t	C	0.239	0.180	0.581
179	e	H	0.517	0.046	0.437
180	n	H	0.517	0.046	0.437
181	k	H	0.589	0.036	0.375
182	l	H	0.589	0.036	0.375
183	g	H	0.517	0.046	0.437
184	r	H	0.589	0.036	0.375
185	e	H	0.723	0.020	0.257
186	s	H	0.723	0.020	0.257
187	e	H	0.723	0.020	0.257
188	e	H	0.723	0.020	0.257
189	a	H	0.723	0.020	0.257
190	n	H	0.589	0.036	0.375
191	v	H	0.877	0.004	0.119
192	e	H	0.945	0.014	0.041
193	r	H	0.910	0.036	0.054

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194	i	H	0.914	0.052	0.034
195	l	H	0.910	0.036	0.054
196	e	H	0.745	0.119	0.136
197	v	H	0.517	0.046	0.437
198	s	C	0.185	0.021	0.794
199	d	C	0.087	0.020	0.893
200	p	C	0.255	0.051	0.694
201	q	H	0.589	0.036	0.375
202	n	H	0.723	0.020	0.257
203	l	H	0.877	0.004	0.119
204	f	H	0.877	0.004	0.119
205	k	H	0.945	0.014	0.041
206	n	H	0.790	0.067	0.143
207	f	H	0.519	0.156	0.325
208	k	C	0.275	0.330	0.395
209	l	C	0.275	0.330	0.395
210	q	C	0.088	0.085	0.827
211	n	C	0.110	0.069	0.821
212	d	C	0.091	0.027	0.882
213	l	C	0.185	0.021	0.794
214	d	C	0.255	0.051	0.694
215	s	C	0.255	0.051	0.694
216	v	C	0.210	0.090	0.700
217	q	C	0.189	0.138	0.673
218	s	C	0.088	0.085	0.827
219	p	C	0.189	0.138	0.673
220	f	C	0.189	0.134	0.677
221	r	C	0.189	0.134	0.677
222	l	C	0.110	0.069	0.821
223	p	C	0.185	0.021	0.794
224	n	C	0.255	0.051	0.694
225	a	C	0.366	0.042	0.592
226	d	C	0.366	0.042	0.592
227	l	H	0.517	0.046	0.437
228	s	H	0.517	0.046	0.437
229	r	H	0.723	0.020	0.257
230	d	H	0.723	0.020	0.257
231	l	H	0.877	0.004	0.119
232	d	H	0.723	0.020	0.257
233	s	H	0.751	0.065	0.184
234	v	H	0.626	0.096	0.278
235	s	H	0.484	0.118	0.398
236	f	H	0.626	0.096	0.278
237	k	H	0.589	0.036	0.375
238	d	H	0.517	0.046	0.437
239	a	H	0.484	0.118	0.398
240	l	H	0.422	0.216	0.362
241	d	F	0.102	0.624	0.274
242	v	E	0.094	0.650	0.256
243	k	E	0.045	0.613	0.342
244	l	C	0.059	0.209	0.732
245	p	C	0.070	0.040	0.890
246	g	C	0.087	0.020	0.893
247	n	C	0.087	0.020	0.893
248	g	C	0.255	0.051	0.694
249	e	H	0.517	0.046	0.437
250	r	H	0.877	0.004	0.119
251	e	H	0.905	0.015	0.080
252	i	H	0.945	0.014	0.041
253	d	H	0.945	0.014	0.041
254	l	H	0.945	0.014	0.041
255	a	H	0.945	0.014	0.041
256	l	H	0.893	0.032	0.075
257	q	H	0.945	0.014	0.041
258	k	H	0.945	0.014	0.041
259	v	H	0.662	0.080	0.259
260	k	H	0.484	0.118	0.398
261	a	C	0.366	0.042	0.592
262	q	C	0.255	0.051	0.694

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263	e	C	0.366	0.042	0.592
264	r	C	0.366	0.042	0.592
265	e	C	0.366	0.042	0.592
266	l	C	0.393	0.150	0.457
267	s	C	0.393	0.150	0.457
268	d	E	0.198	0.418	0.384
269	f	E	0.198	0.418	0.384
270	k	E	0.198	0.418	0.384
271	v	C	0.194	0.267	0.539
272	g	C	0.110	0.069	0.821
273	q	C	0.070	0.040	0.890
274	d	C	0.207	0.122	0.671
275	e	C	0.239	0.180	0.581
276	t	C	0.249	0.234	0.517
277	l	C	0.194	0.267	0.539
278	i	C	0.194	0.267	0.539
279	p	H	0.519	0.156	0.325
280	t	H	0.745	0.119	0.136
281	q	H	0.745	0.119	0.136
282	l	H	0.686	0.149	0.165
283	m	H	0.621	0.113	0.266
284	k	C	0.302	0.299	0.399
285	v	C	0.249	0.234	0.517
286	e	C	0.189	0.134	0.677
287	t	C	0.110	0.069	0.821
288	p	C	0.087	0.020	0.893
289	e	C	0.185	0.021	0.794
290	e	C	0.087	0.020	0.893
291	k	C	0.185	0.021	0.794
292	d	C	0.366	0.042	0.592
293	d	H	0.589	0.036	0.375
294	v	H	0.877	0.004	0.119
295	i	H	0.905	0.015	0.080
296	e	H	0.893	0.032	0.075
297	k	H	0.910	0.036	0.054
298	m	H	0.914	0.052	0.034
299	v	H	0.980	0.010	0.010
300	l	H	0.524	0.381	0.095
301	r	E	0.098	0.771	0.131
302	i	E	0.126	0.680	0.194
303	r	C	0.275	0.330	0.395
304	q	C	0.110	0.069	0.821
305	d	C	0.110	0.069	0.821
306	g	C	0.110	0.069	0.821
307	e	C	0.088	0.085	0.827
308	t	C	0.088	0.085	0.827
309	d	C	0.091	0.215	0.694
310	e	C	0.194	0.267	0.539
311	e	C	0.130	0.429	0.441
312	t	C	0.181	0.348	0.471
313	v	C	0.059	0.209	0.732
314	p	C	0.062	0.088	0.850
315	g	C	0.062	0.088	0.850
316	p	C	0.110	0.069	0.821
317	g	C	0.110	0.069	0.821
318	v	C	0.239	0.180	0.581
319	a	H	0.621	0.113	0.266
320	e	H	0.621	0.113	0.266
321	s	H	0.603	0.167	0.230
322	l	H	0.443	0.344	0.213
323	g	H	0.443	0.344	0.213
324	i	C	0.302	0.299	0.399
325	a	C	0.393	0.150	0.457
326	a	C	0.239	0.180	0.581
327	k	C	0.207	0.122	0.671
328	d	C	0.207	0.122	0.671
329	k	C	0.210	0.090	0.700
330	s	C	0.302	0.299	0.399
331	v	C	0.302	0.299	0.399

Appendix 7: Mobility plot: Numerical values for mobility . The mobility plot of the 334 amino acids from the carboxyl terminal is depicted in Figure 3.27.

Window size: 9

Scale not normalized.

Relative weight for window edges: 100 %

Weight variation model: linear

Position:	5	Score:	5.067
Position:	6	Score:	4.267
Position:	7	Score:	4.000
Position:	8	Score:	3.344
Position:	9	Score:	3.378
Position:	10	Score:	3.456
Position:	11	Score:	3.522
Position:	12	Score:	2.567
Position:	13	Score:	2.489
Position:	14	Score:	2.556
Position:	15	Score:	3.522
Position:	16	Score:	3.522
Position:	17	Score:	4.178
Position:	18	Score:	4.222
Position:	19	Score:	4.456
Position:	20	Score:	4.656
Position:	21	Score:	5.522
Position:	22	Score:	5.767
Position:	23	Score:	5.767
Position:	24	Score:	4.856
Position:	25	Score:	4.922
Position:	26	Score:	3.878
Position:	27	Score:	2.844
Position:	28	Score:	2.533
Position:	29	Score:	2.756
Position:	30	Score:	2.767
Position:	31	Score:	3.322
Position:	32	Score:	3.356
Position:	33	Score:	3.500
Position:	34	Score:	3.578
Position:	35	Score:	3.711
Position:	36	Score:	4.578
Position:	37	Score:	4.822
Position:	38	Score:	4.711
Position:	39	Score:	3.756
Position:	40	Score:	3.156
Position:	41	Score:	3.433
Position:	42	Score:	3.167
Position:	43	Score:	3.511
Position:	44	Score:	3.700
Position:	45	Score:	2.956
Position:	46	Score:	2.956
Position:	47	Score:	3.444
Position:	48	Score:	3.756
Position:	49	Score:	3.978
Position:	50	Score:	3.744

Position: 51	Score: 3.744
Position: 52	Score: 3.522
Position: 53	Score: 3.678
Position: 54	Score: 4.422
Position: 55	Score: 5.144
Position: 56	Score: 4.422
Position: 57	Score: 4.178
Position: 58	Score: 4.000
Position: 59	Score: 3.922
Position: 60	Score: 4.022
Position: 61	Score: 4.244
Position: 62	Score: 3.767
Position: 63	Score: 2.900
Position: 64	Score: 2.822
Position: 65	Score: 3.667
Position: 66	Score: 4.089
Position: 67	Score: 4.156
Position: 68	Score: 5.122
Position: 69	Score: 5.011
Position: 70	Score: 4.589
Position: 71	Score: 4.667
Position: 72	Score: 5.478
Position: 73	Score: 5.011
Position: 74	Score: 4.167
Position: 75	Score: 3.678
Position: 76	Score: 4.167
Position: 77	Score: 3.400
Position: 78	Score: 3.556
Position: 79	Score: 3.867
Position: 80	Score: 4.178
Position: 81	Score: 3.433
Position: 82	Score: 3.322
Position: 83	Score: 3.167
Position: 84	Score: 3.433
Position: 85	Score: 2.711
Position: 86	Score: 2.444
Position: 87	Score: 3.333
Position: 88	Score: 3.767
Position: 89	Score: 3.656
Position: 90	Score: 3.967
Position: 91	Score: 3.967
Position: 92	Score: 3.967
Position: 93	Score: 4.189
Position: 94	Score: 4.167
Position: 95	Score: 4.233
Position: 96	Score: 3.267
Position: 97	Score: 2.578
Position: 98	Score: 2.622
Position: 99	Score: 2.511
Position: 100	Score: 2.511
Position: 101	Score: 2.589
Position: 102	Score: 3.089
Position: 103	Score: 2.956
Position: 104	Score: 3.756
Position: 105	Score: 3.689
Position: 106	Score: 3.633
Position: 107	Score: 3.444
Position: 108	Score: 4.067
Position: 109	Score: 4.000
Position: 110	Score: 4.011
Position: 111	Score: 3.011
Position: 112	Score: 3.144
Position: 113	Score: 2.356
Position: 114	Score: 2.478
Position: 115	Score: 2.878
Position: 116	Score: 3.789
Position: 117	Score: 3.367
Position: 118	Score: 3.044
Position: 119	Score: 4.000

Position: 120	Score: 4.900
Position: 121	Score: 4.900
Position: 122	Score: 5.311
Position: 123	Score: 5.678
Position: 124	Score: 5.356
Position: 125	Score: 4.311
Position: 126	Score: 4.333
Position: 127	Score: 4.722
Position: 128	Score: 3.811
Position: 129	Score: 3.044
Position: 130	Score: 3.000
Position: 131	Score: 3.322
Position: 132	Score: 3.700
Position: 133	Score: 3.633
Position: 134	Score: 4.133
Position: 135	Score: 4.022
Position: 136	Score: 4.678
Position: 137	Score: 4.933
Position: 138	Score: 4.889
Position: 139	Score: 4.956
Position: 140	Score: 5.011
Position: 141	Score: 4.133
Position: 142	Score: 4.122
Position: 143	Score: 4.589
Position: 144	Score: 5.244
Position: 145	Score: 4.700
Position: 146	Score: 4.444
Position: 147	Score: 5.356
Position: 148	Score: 5.522
Position: 149	Score: 4.644
Position: 150	Score: 5.689
Position: 151	Score: 6.578
Position: 152	Score: 5.889
Position: 153	Score: 5.889
Position: 154	Score: 5.778
Position: 155	Score: 5.778
Position: 156	Score: 4.856
Position: 157	Score: 4.922
Position: 158	Score: 5.889
Position: 159	Score: 4.933
Position: 160	Score: 3.978
Position: 161	Score: 4.667
Position: 162	Score: 4.667
Position: 163	Score: 4.389
Position: 164	Score: 4.256
Position: 165	Score: 4.267
Position: 166	Score: 4.156
Position: 167	Score: 3.578
Position: 168	Score: 3.811
Position: 169	Score: 3.933
Position: 170	Score: 4.011
Position: 171	Score: 3.044
Position: 172	Score: 3.978
Position: 173	Score: 4.456
Position: 174	Score: 4.689
Position: 175	Score: 4.544
Position: 176	Score: 4.156
Position: 177	Score: 3.911
Position: 178	Score: 4.822
Position: 179	Score: 4.167
Position: 180	Score: 4.244
Position: 181	Score: 3.333
Position: 182	Score: 3.133
Position: 183	Score: 2.944
Position: 184	Score: 2.944
Position: 185	Score: 3.444
Position: 186	Score: 3.367
Position: 187	Score: 3.200
Position: 188	Score: 2.944

Position: 189	Score: 2.944
Position: 190	Score: 3.778
Position: 191	Score: 4.544
Position: 192	Score: 4.544
Position: 193	Score: 5.289
Position: 194	Score: 5.067
Position: 195	Score: 5.078
Position: 196	Score: 4.678
Position: 197	Score: 4.633
Position: 198	Score: 4.478
Position: 199	Score: 4.556
Position: 200	Score: 4.511
Position: 201	Score: 4.456
Position: 202	Score: 3.578
Position: 203	Score: 4.300
Position: 204	Score: 4.367
Position: 205	Score: 4.933
Position: 206	Score: 4.933
Position: 207	Score: 4.933
Position: 208	Score: 3.900
Position: 209	Score: 3.944
Position: 210	Score: 3.878
Position: 211	Score: 4.156
Position: 212	Score: 4.033
Position: 213	Score: 4.044
Position: 214	Score: 3.278
Position: 215	Score: 3.667
Position: 216	Score: 4.667
Position: 217	Score: 4.811
Position: 218	Score: 4.811
Position: 219	Score: 5.278
Position: 220	Score: 5.000
Position: 221	Score: 4.622
Position: 222	Score: 4.544
Position: 223	Score: 5.311
Position: 224	Score: 5.111
Position: 225	Score: 4.267
Position: 226	Score: 4.122
Position: 227	Score: 4.122
Position: 228	Score: 3.656
Position: 229	Score: 3.933
Position: 230	Score: 4.311
Position: 231	Score: 4.578
Position: 232	Score: 4.533
Position: 233	Score: 4.333
Position: 234	Score: 4.189
Position: 235	Score: 4.678
Position: 236	Score: 4.678
Position: 237	Score: 4.678
Position: 238	Score: 5.278
Position: 239	Score: 4.478
Position: 240	Score: 5.244
Position: 241	Score: 4.722
Position: 242	Score: 5.033
Position: 243	Score: 5.022
Position: 244	Score: 4.911
Position: 245	Score: 4.000
Position: 246	Score: 4.144
Position: 247	Score: 3.400
Position: 248	Score: 4.289
Position: 249	Score: 3.256
Position: 250	Score: 3.822
Position: 251	Score: 3.933
Position: 252	Score: 4.978
Position: 253	Score: 4.678
Position: 254	Score: 4.622
Position: 255	Score: 5.344
Position: 256	Score: 5.289
Position: 257	Score: 4.822

Position: 258	Score: 5.200	
Position: 259	Score: 4.289	
Position: 260	Score: 3.944	
Position: 261	Score: 3.033	
Position: 262	Score: 3.267	
Position: 263	Score: 3.467	
Position: 264	Score: 2.600	
Position: 265	Score: 3.522	
Position: 266	Score: 3.100	
Position: 267	Score: 3.589	
Position: 268	Score: 3.844	
Position: 269	Score: 3.778	
Position: 270	Score: 3.656	
Position: 271	Score: 3.467	
Position: 272	Score: 3.511	
Position: 273	Score: 4.544	
Position: 274	Score: 4.511	
Position: 275	Score: 4.911	
Position: 276	Score: 4.356	
Position: 277	Score: 4.056	
Position: 278	Score: 5.011	
Position: 279	Score: 5.900	
Position: 280	Score: 5.844	
Position: 281	Score: 6.400	
Position: 282	Score: 5.489	
Position: 283	Score: 4.844	
Position: 284	Score: 4.844	
Position: 285	Score: 4.656	
Position: 286	Score: 4.700	
Position: 287	Score: 3.733	
Position: 288	Score: 2.844	
Position: 289	Score: 2.778	
Position: 290	Score: 2.778	
Position: 291	Score: 3.611	
Position: 292	Score: 3.422	
Position: 293	Score: 3.022	
Position: 294	Score: 3.789	
Position: 295	Score: 4.533	
Position: 296	Score: 5.500	
Position: 297	Score: 5.644	
Position: 298	Score: 6.600	(max)
Position: 299	Score: 5.878	
Position: 300	Score: 5.000	
Position: 301	Score: 4.878	
Position: 302	Score: 5.189	
Position: 303	Score: 4.422	
Position: 304	Score: 3.867	
Position: 305	Score: 2.833	
Position: 306	Score: 2.811	
Position: 307	Score: 1.978	(min)
Position: 308	Score: 2.144	
Position: 309	Score: 2.933	
Position: 310	Score: 3.400	
Position: 311	Score: 3.400	
Position: 312	Score: 3.744	
Position: 313	Score: 3.811	
Position: 314	Score: 4.678	
Position: 315	Score: 5.044	
Position: 316	Score: 5.044	
Position: 317	Score: 5.000	
Position: 318	Score: 5.167	
Position: 319	Score: 5.078	
Position: 320	Score: 5.656	
Position: 321	Score: 5.678	
Position: 322	Score: 5.789	
Position: 323	Score: 4.989	
Position: 324	Score: 4.500	
Position: 325	Score: 4.444	
Position: 326	Score: 4.444	

Position: 327 Score: 4.278
Position: 328 Score: 4.856
Position: 329 Score: 4.389
Position: 330 Score: 4.167

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Appendix 8: Coil structure predictions plot: Numerical values for coil structure. The coil structure plot of the 334 amino acids from the carboxyl terminal is depicted in Figure 3.28.

Position:	5	Score:	0.955
Position:	6	Score:	0.969
Position:	7	Score:	0.976
Position:	8	Score:	1.025
Position:	9	Score:	1.015
Position:	10	Score:	1.015
Position:	11	Score:	0.981
Position:	12	Score:	0.997
Position:	13	Score:	0.997
Position:	14	Score:	0.964
Position:	15	Score:	0.954
Position:	16	Score:	0.954
Position:	17	Score:	0.905
Position:	18	Score:	0.906
Position:	19	Score:	0.946
Position:	20	Score:	0.972
Position:	21	Score:	0.971
Position:	22	Score:	0.999
Position:	23	Score:	0.999
Position:	24	Score:	0.994
Position:	25	Score:	0.961
Position:	26	Score:	1.000
Position:	27	Score:	1.043
Position:	28	Score:	1.004
Position:	29	Score:	0.970
Position:	30	Score:	0.964
Position:	31	Score:	0.922
Position:	32	Score:	0.941
Position:	33	Score:	0.982
Position:	34	Score:	0.982
Position:	35	Score:	0.936
Position:	36	Score:	0.889
Position:	37	Score:	0.917
Position:	38	Score:	0.965
Position:	39	Score:	0.999
Position:	40	Score:	1.039
Position:	41	Score:	1.059
Position:	42	Score:	1.067
Position:	43	Score:	1.059
Position:	44	Score:	1.102
Position:	45	Score:	1.101
Position:	46	Score:	1.101
Position:	47	Score:	1.048
Position:	48	Score:	1.042
Position:	49	Score:	1.008
Position:	50	Score:	0.968

<http://www.expasy.ch/tmp/scores13117.html>

Position: 51	Score: 0.968
Position: 52	Score: 1.002
Position: 53	Score: 1.046
Position: 54	Score: 1.047
Position: 55	Score: 1.010
Position: 56	Score: 1.023
Position: 57	Score: 0.995
Position: 58	Score: 1.031
Position: 59	Score: 1.032
Position: 60	Score: 1.017
Position: 61	Score: 0.983
Position: 62	Score: 0.942
Position: 63	Score: 0.989
Position: 64	Score: 0.997
Position: 65	Score: 0.987
Position: 66	Score: 0.979
Position: 67	Score: 0.990
Position: 68	Score: 0.980
Position: 69	Score: 0.991
Position: 70	Score: 1.000
Position: 71	Score: 0.970
Position: 72	Score: 0.960
Position: 73	Score: 0.953
Position: 74	Score: 0.964
Position: 75	Score: 1.005
Position: 76	Score: 0.952
Position: 77	Score: 0.987
Position: 78	Score: 0.957
Position: 79	Score: 0.996
Position: 80	Score: 1.036
Position: 81	Score: 1.012
Position: 82	Score: 1.059
Position: 83	Score: 1.090
Position: 84	Score: 1.082
Position: 85	Score: 1.096
Position: 86	Score: 1.103
Position: 87	Score: 1.094
Position: 88	Score: 1.078
Position: 89	Score: 1.065
Position: 90	Score: 1.104
Position: 91	Score: 1.104
Position: 92	Score: 1.104
Position: 93	Score: 1.070
Position: 94	Score: 1.056
Position: 95	Score: 1.022
Position: 96	Score: 1.032
Position: 97	Score: 0.993
Position: 98	Score: 0.995
Position: 99	Score: 0.982
Position: 100	Score: 0.982
Position: 101	Score: 0.952
Position: 102	Score: 0.949
Position: 103	Score: 0.994
Position: 104	Score: 0.980
Position: 105	Score: 1.013
Position: 106	Score: 1.028
Position: 107	Score: 0.985
Position: 108	Score: 0.950
Position: 109	Score: 0.938
Position: 110	Score: 0.944
Position: 111	Score: 0.985
Position: 112	Score: 0.940
Position: 113	Score: 0.959
Position: 114	Score: 0.911
Position: 115	Score: 0.982
Position: 116	Score: 0.988
Position: 117	Score: 1.069
Position: 118	Score: 1.071
Position: 119	Score: 1.056

Position: 120	Score: 1.016
Position: 121	Score: 1.016
Position: 122	Score: 1.003
Position: 123	Score: 1.010
Position: 124	Score: 0.938
Position: 125	Score: 0.977
Position: 126	Score: 0.898
Position: 127	Score: 0.907
Position: 128	Score: 0.902
Position: 129	Score: 0.896
Position: 130	Score: 0.917
Position: 131	Score: 0.949
Position: 132	Score: 0.943
Position: 133	Score: 0.949
Position: 134	Score: 0.911
Position: 135	Score: 0.958
Position: 136	Score: 0.909
Position: 137	Score: 0.964
Position: 138	Score: 0.984
Position: 139	Score: 0.978
Position: 140	Score: 0.941
Position: 141	Score: 0.985
Position: 142	Score: 0.979
Position: 143	Score: 0.986
Position: 144	Score: 0.937
Position: 145	Score: 0.939
Position: 146	Score: 0.884
Position: 147	Score: 0.867
Position: 148	Score: 0.896
Position: 149	Score: 0.940
Position: 150	Score: 0.900
Position: 151	Score: 0.899
Position: 152	Score: 0.926
Position: 153	Score: 0.926
Position: 154	Score: 0.973
Position: 155	Score: 0.973
Position: 156	Score: 0.984
Position: 157	Score: 0.996
Position: 158	Score: 0.965
Position: 159	Score: 0.980
Position: 160	Score: 1.014
Position: 161	Score: 0.987
Position: 162	Score: 0.987
Position: 163	Score: 0.967
Position: 164	Score: 1.012
Position: 165	Score: 1.018
Position: 166	Score: 1.004
Position: 167	Score: 1.045
Position: 168	Score: 1.067
Position: 169	Score: 1.019
Position: 170	Score: 1.010
Position: 171	Score: 1.020
Position: 172	Score: 0.991
Position: 173	Score: 1.033
Position: 174	Score: 1.055
Position: 175	Score: 1.014
Position: 176	Score: 1.005
Position: 177	Score: 0.977
Position: 178	Score: 0.982
Position: 179	Score: 1.031
Position: 180	Score: 1.031
Position: 181	Score: 1.025
Position: 182	Score: 0.980
Position: 183	Score: 0.937
Position: 184	Score: 0.937
Position: 185	Score: 0.899
Position: 186	Score: 0.929
Position: 187	Score: 0.924
Position: 188	Score: 0.870

Position: 189	Score: 0.870
Position: 190	Score: 0.884
Position: 191	Score: 0.848
Position: 192	Score: 0.848
Position: 193	Score: 0.850
Position: 194	Score: 0.884
Position: 195	Score: 0.887
Position: 196	Score: 0.972
Position: 197	Score: 0.993
Position: 198	Score: 1.023
Position: 199	Score: 1.015
Position: 200	Score: 1.013
Position: 201	Score: 1.029
Position: 202	Score: 1.072
Position: 203	Score: 1.035
Position: 204	Score: 1.002
Position: 205	Score: 0.921
Position: 206	Score: 0.921
Position: 207	Score: 0.921
Position: 208	Score: 0.964
Position: 209	Score: 0.965
Position: 210	Score: 0.999
Position: 211	Score: 0.995
Position: 212	Score: 0.992
Position: 213	Score: 0.997
Position: 214	Score: 1.033
Position: 215	Score: 1.099
Position: 216	Score: 1.058
Position: 217	Score: 1.024
Position: 218	Score: 1.024
Position: 219	Score: 1.062
Position: 220	Score: 1.066
Position: 221	Score: 1.072
Position: 222	Score: 1.100
Position: 223	Score: 1.064
Position: 224	Score: 1.019
Position: 225	Score: 1.029
Position: 226	Score: 1.063
Position: 227	Score: 1.063
Position: 228	Score: 1.025
Position: 229	Score: 1.021
Position: 230	Score: 1.015
Position: 231	Score: 1.008
Position: 232	Score: 1.006
Position: 233	Score: 0.980
Position: 234	Score: 1.014
Position: 235	Score: 0.973
Position: 236	Score: 0.973
Position: 237	Score: 0.973
Position: 238	Score: 0.933
Position: 239	Score: 0.947
Position: 240	Score: 0.911
Position: 241	Score: 0.994
Position: 242	Score: 1.033
Position: 243	Score: 1.030
Position: 244	Score: 1.077
Position: 245	Score: 1.072
Position: 246	Score: 1.038
Position: 247	Score: 1.037
Position: 248	Score: 1.036
Position: 249	Score: 1.079
Position: 250	Score: 0.997
Position: 251	Score: 0.950
Position: 252	Score: 0.910
Position: 253	Score: 0.877
Position: 254	Score: 0.892
Position: 255	Score: 0.878
Position: 256	Score: 0.893
Position: 257	Score: 0.886

Position: 258	Score: 0.892	
Position: 259	Score: 0.887	
Position: 260	Score: 0.895	
Position: 261	Score: 0.889	
Position: 262	Score: 0.912	
Position: 263	Score: 0.937	
Position: 264	Score: 0.985	
Position: 265	Score: 0.974	
Position: 266	Score: 0.982	
Position: 267	Score: 0.928	
Position: 268	Score: 0.983	
Position: 269	Score: 0.989	
Position: 270	Score: 1.037	
Position: 271	Score: 0.994	
Position: 272	Score: 0.996	
Position: 273	Score: 0.953	
Position: 274	Score: 0.963	
Position: 275	Score: 1.035	
Position: 276	Score: 1.076	
Position: 277	Score: 1.043	
Position: 278	Score: 1.027	
Position: 279	Score: 0.984	
Position: 280	Score: 1.000	
Position: 281	Score: 0.958	
Position: 282	Score: 0.952	
Position: 283	Score: 0.981	
Position: 284	Score: 0.981	
Position: 285	Score: 0.938	
Position: 286	Score: 0.918	
Position: 287	Score: 0.927	
Position: 288	Score: 0.970	
Position: 289	Score: 1.004	
Position: 290	Score: 1.004	
Position: 291	Score: 1.018	
Position: 292	Score: 0.975	
Position: 293	Score: 0.903	
Position: 294	Score: 0.909	
Position: 295	Score: 0.910	
Position: 296	Score: 0.900	
Position: 297	Score: 0.866	
Position: 298	Score: 0.832	(min)
Position: 299	Score: 0.845	
Position: 300	Score: 0.852	
Position: 301	Score: 0.901	
Position: 302	Score: 0.940	
Position: 303	Score: 0.934	
Position: 304	Score: 0.976	
Position: 305	Score: 1.019	
Position: 306	Score: 1.005	
Position: 307	Score: 0.991	
Position: 308	Score: 1.019	
Position: 309	Score: 1.000	
Position: 310	Score: 1.038	
Position: 311	Score: 1.038	
Position: 312	Score: 1.124	
Position: 313	Score: 1.136	(max)
Position: 314	Score: 1.088	
Position: 315	Score: 1.095	
Position: 316	Score: 1.095	
Position: 317	Score: 1.093	
Position: 318	Score: 1.098	
Position: 319	Score: 1.066	
Position: 320	Score: 1.025	
Position: 321	Score: 0.945	
Position: 322	Score: 0.898	
Position: 323	Score: 0.912	
Position: 324	Score: 0.953	
Position: 325	Score: 0.968	
Position: 326	Score: 0.968	

Position: 327 Score: 0.964
Position: 328 Score: 0.924
Position: 329 Score: 0.917
Position: 330 Score: 0.951

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