

MKLNLEKFLVGLTFLPQSRSWQVLLVVLFLFVFLRRRYFYVSRRAFYASL...MEKFLVIGCTAGVLSILFLPGSRLLSLDSLF...VLFIFIVLNAYFYSRRKPRAPSTALLLGLGGCVGLAISHTQATHLFE
 MKLNLEITLVVLLIVADTLFLFLPQLPLPWQVALVIALVLIFFIFLRRNFLV...SLAFFVAS...LGYFHYSAISLSQ

77
 74

Residue	QG1	KGI
1	Q	K
2	G	G
3	I	T
4	T	A
5	A	V
6	G	T
7	T	V
8	K	K
9	S	S
10	A	A
11	V	V
12	K	K
13	I	I
14	R	R
15	D	D
16	V	V
17	S	S
18	W	W
19	R	R
20	E	E
21	T	T
22	R	R
23	L	L
24	F	F
25	H	H
26	Q	Q
27	V	V
28	K	K
29	K	K
30	R	R
31	E	E
32	G	G
33	L	L
34	S	S
35	Q	Q
36	G	G
37	L	L
38	L	L
39	L	L
40	A	A
41	L	L
42	A	A
43	F	F
44	G	G
45	E	E
46	R	R
47	A	A
48	W	W
49	L	L
50	S	S
51	P	P
52	T	T
53	T	T
54	W	W
55	S	S
56	Y	Y
57	Q	Q
58	R	R
59	T	T
60	N	N
61	T	T
62	A	A
63	H	H
64	L	L
65	I	I
66	A	A
67	S	S
68	G	G
69	L	L
70	H	H
71	I	I
72	G	G
73	L	L
74	I	I
75	G	G
76	L	L
77	A	A
78	M	M
79	G	G
80	T	T
81	G	G
82	T	T
83	A	A
84	H	H
85	L	L
86	I	I
87	A	A
88	S	S
89	G	G
90	L	L
91	H	H
92	I	I
93	G	G
94	L	L
95	A	A
96	M	M
97	G	G
98	T	T
99	G	G
100	T	T
101	A	A
102	H	H
103	L	L
104	I	I
105	A	A
106	S	S
107	G	G
108	L	L
109	H	H
110	I	I
111	G	G
112	L	L
113	A	A
114	M	M
115	G	G
116	T	T
117	G	G
118	T	T
119	A	A
120	H	H
121	L	L
122	I	I
123	A	A
124	S	S
125	G	G
126	L	L
127	H	H
128	I	I
129	G	G
130	L	L
131	A	A
132	M	M
133	G	G
134	T	T
135	G	G
136	T	T
137	A	A
138	H	H
139	L	L
140	I	I
141	A	A
142	S	S
143	G	G
144	L	L
145	H	H
146	I	I
147	G	G
148	L	L
149	A	A
150	M	M
151	G	G
152	T	T
153	G	G
154	T	T
155	A	A
156	H	H
157	L	L
158	I	I
159	A	A
160	S	S
161	G	G
162	L	L
163	H	H
164	I	I
165	G	G
166	L	L
167	A	A
168	M	M
169	G	G
170	T	T
171	G	G
172	T	T
173	A	A
174	H	H
175	L	L

SENKPA...ELSGIVIGCLLLISLCGGRLAYLWLQEPDWRVETLDVGQGLATLIVKNQRAVLYDTGVAVEGGSMABEILPYLQR 580
 NLSKPLLKNERINVLRCISFGLILCFTILLFKQLSKPTWQVETLDVGQGLATLIVKNQKGLYDTGSSWRGGSMABEILPYLQR 581

