

Reference sequence (1): S0

Identities normalised by aligned length.

Colored by: identity + property

		1 [.] 12
1	S0	100.0% SFKIPYHYDScQ
2	S1	0.0% HGGVRLY-----
3	S2	0.0% GQSEKHL-----
4	S3	14.3% SLSKWSF-----
5	S4	0.0% KIAVIST-----
6	S5	0.0% TDNTKPK-----
7	S6	0.0% TNWRTIN-----
8	S7	0.0% VSRDTPQ-----
9	S8	0.0% TIPRAPSPANTY
10	S9	0.0% NRPDSAQFWLHH
11	S10	8.3% DSSNPiFWRPSS
12	S11	0.0% FYRHDTYNTHHT
13	S12	8.3% HTKQIPRHIYSA
14	S13	28.6% HAIYPRH-----
15	S14	0.0% LNHHLGF-----
16	S15	0.0% CQLLSARSC---
17	S16	16.7% SVFLPTRHSPDL
18	S17	0.0% ATTHRDVQNAFR
19	S18	8.3% QTNDTSRQPSYR
20	S19	0.0% AALSMPP-----
21	S20	16.7% HYQHNTHPSPRW
22	S21	25.0% SHHIPSQWPLH
23	S22	14.3% SVQLQQQ-----
24	S23	25.0% LVSKPYSLTKGI
25	S24	0.0% QTAGKFNSAAHP
26	S25	0.0% HSMPYGLVSGSK
27	S26	0.0% THHTLFS-----
28	S27	0.0% QPWPTSI-----
29	S28	0.0% TPTLIKG-----
30	S29	8.3% TTVYPARWGAHP
31	S30	0.0% CNNQMLERC---
32	S31	0.0% GTTTWLY-----
33	S32	0.0% LAHNRTS-----
34	S33	0.0% ETALIAA-----
35	S34	0.0% LPVRLDW-----
36	S35	8.3% SWMPHPRWSPQH
37	S36	0.0% VNTGMGSRLTYM
38	S37	16.7% SSYYPQLTAHRF
39	S38	0.0% HTSSSVKMSDVL
40	S39	8.3% DVQEKGHVNLNR
41	S40	28.6% YPAIHYL-----
42	S41	8.3% SLHSKAYERPLS
43	S42	0.0% QLPHTVL-----
44	S43	0.0% ETPLQKS-----
45	S44	0.0% LARDVOI-----
46	S45	14.3% KLPVLYA-----
47	S46	0.0% VNPHYLQ-----
48	S47	8.3% QHYNIVNTQSRV
49	S48	0.0% LPIVKAL-----
50	S49	0.0% QSHYRHISPAQV
51	S50	0.0% DLNYFTLSSKRE
52	S51	0.0% CYQLNTSQC---
53	S52	0.0% GSELYGL-----
54	S53	14.3% QLWAPPW-----
55	S54	0.0% YIGSQTNERYS
56	S55	8.3% FHVNPSTPTHPL
57	S56	8.3% RADALNSHLS
58	S57	8.3% LPPEELRSRLL
59	S58	0.0% KNLNTTAMYAAS
60	S59	0.0% NYHLTHPHILKT
61	S60	0.0% FAIPLVP-----
62	S61	8.3% SVSVGMPKSPRP
63	S62	0.0% GQSPHSYQPRTY
64	S63	8.3% AQPNTSLRSLP

65	S64	28.6%	LPTPGYH-----
66	S65	8.3%	HYISPAWPTPPA
67	S66	0.0%	QHANHQAANNLR
68	S67	0.0%	TLPHTRL-----
69	S68	8.3%	GSLNESWLSKFK
70	S69	16.7%	YHKPPSPTPLPA
71	S70	0.0%	HSITKPL-----
72	S71	0.0%	GETRAPL-----
73	S72	0.0%	MPAVMSSAQVPR
74	S73	0.0%	APIHLHSPKLLH
75	S74	0.0%	ERSWTLDSALSM
76	S75	20.0%	IPLVP-----
77	S76	33.3%	STGKPYMMLTGV
78	S77	14.3%	GSHNPHL-----
79	S78	0.0%	AKALYSANAPAV
80	S79	0.0%	NHWASPR-----
81	S80	0.0%	WSPGQQLHNST
82	S81	0.0%	TTGQAWR-----
83	S82	0.0%	KPLNMTLWPHPI
84	S83	0.0%	LIPGYSTSYQLS
85	S84	14.3%	STASYTR-----
86	S85	0.0%	MPAVMSSVQVPR
87	S86	0.0%	ALLTGPR-----
88	S87	0.0%	HHEPGAWLPLSP
89	S88	0.0%	CVARGAQTC---
90	S89	0.0%	ATGTNPPGSALS
91	S90	0.0%	ALHSARV-----
92	S1	0.0%	GPLWSSN-----
93	S1	14.3%	SNQWYAS-----
94	S1	0.0%	WAPGSMPTSRLA
95	S1	0.0%	DLQSGPMLYWAN
96	S1	25.0%	FPLLPGPHLSPQ
97	S1	0.0%	QPPSINLTLYPM
98	S1	0.0%	CPTPHSGTC---
99	S1	16.7%	AMNPRNHSDPSV
100	S1	8.3%	SVLPSMRLYTQP
101	S1	9.1%	SNALTDPSRYP-
102	S1	8.3%	HKAPSPKFDWVP
103	S1	0.0%	CHHAWPRGC---
104	S1	8.3%	TNIPHVTIDAQP
105	S1	0.0%	CHSSTWRAC---
106	S1	25.0%	WPKIQNELPPGR
107	S1	0.0%	HPVDAHV-----
108	S1	0.0%	QPPRSTS-----
109	S1	0.0%	CSEWGPNV---
110	S1	8.3%	TTAYPARWGHP
111	S1	0.0%	GLAPRSA-----
112	S1	14.3%	SNYNLPV-----
113	S1	9.1%	GKTDPLTSAFL-
114	S1	0.0%	ILANDLTAPGPR
115	S1	20.0%	AWKSPSKLTC--
116	S1	0.0%	YPMRAPTSQARH
117	S1	0.0%	ATRAHQAPHYPP
118	S1	0.0%	TTVQOTV-----
119	S1	8.3%	WNRSFAFSGPYL
120	S1	0.0%	VSTTTTR-----
121	S1	0.0%	LPTATHPMPHHT
122	S1	0.0%	CSRFNPDWC---
123	S1	0.0%	VSRHQSWHPHDL
124	S1	0.0%	LPIAKAL-----
125	S1	0.0%	CMNQHSSAC---
126	S1	0.0%	HDVKYRLTSVE-
127	S1	0.0%	CTMKNGPSC---
128	S1	11.1%	CERMWRSYC---
129	S1	0.0%	YLPLVTPSYDPG
130	S1	0.0%	LTNNANTINKSA
131	S1	14.3%	ANKLTSY-----
132	S1	0.0%	TMGFTAPRFPHY
133	S1	16.7%	TNKDRHTVYPIWA

134	S1	0.0%	VASPERTSPAFP
135	S1	0.0%	THLPWQT-----
136	S1	0.0%	GPHMLQNKLR-
137	S1	0.0%	AAQTSTP-----
138	S1	16.7%	SMVYGNLPSAL
139	S1	25.0%	SLEPWRTTSR
140	S1	8.3%	APQLPWSARPAV
141	S1	8.3%	SHPWNAORELSV
142	S1	8.3%	LLADTTGHRPWT
143	S1	8.3%	SNTAAPKPNTTH
144	S1	0.0%	MHALNTNAPATW
145	S1	0.0%	TLHTGTY-----
146	S1	0.0%	AWWWNPPLAY--
147	S1	0.0%	AMSTGHNSGPSV
148	S1	8.3%	HMLNYKIRSGGP
149	S1	0.0%	QPMQTRSTQLAS
150	S1	0.0%	WALDRGA-----
151	S1	8.3%	VAKHEGVSLRLI
152	S1	0.0%	YAYEAMKPTPTP
153	S1	0.0%	RAAGSMPTPRLA
154	S1	0.0%	TPQNGPSTPMHA
155	S1	0.0%	TEQSWIQIYAR
156	S1	8.3%	NHTLSQSHPTLG
157	S1	0.0%	ANNASPT-----
158	S1	0.0%	ATWSHRSSGAL
159	S1	16.7%	HNTTPL-----
160	S1	16.7%	SPATRNHMYTQD
161	S1	0.0%	CLLNKVGQC---
162	S1	0.0%	GPYRTGQAMTAL
163	S1	11.1%	CSLHPLRHC---
164	S1	0.0%	TLSTQSV-----
165	S1	0.0%	QLFTSAS-----
166	S1	14.3%	VYPHPER-----
167	S1	0.0%	AETTAPL-----
168	S1	0.0%	CSPKSLWSC---
169	S1	11.1%	CTPQTKHRC---
170	S1	0.0%	YGPHMLQNKLR
171	S1	0.0%	CKPSDTRLC---
172	S1	0.0%	THSPGLNTPGER
173	S1	0.0%	DTPTHATNALPA
174	S1	0.0%	MQTGAPL-----
175	S1	0.0%	GSSNATT-----
176	S1	0.0%	CTASHTVTC---
177	S1	28.6%	HVIYPRH-----
178	S1	8.3%	HKAPSPKGDWAP
179	S1	16.7%	SQWHPRSASYPM
180	S1	0.0%	CKSDRTTHC---
181	S1	0.0%	CHSAKSAPC---
182	S1	0.0%	YASAGMKPSPTP
183	S1	0.0%	EHLRMHSGHYFT
184	S1	20.0%	SHSITSKFSV--
185	S1	11.1%	CCSCPQLC---
186	S1	0.0%	LDDNQDGGHTPT
187	S1	8.3%	ANYFLPPVLSSS
188	S1	8.3%	ELYTPTTELAPAR
189	S1	0.0%	GTLYLYSSKQHMS
190	S1	14.3%	AETTPRV-----
191	S1	9.1%	LTAETHAVILS-
192	S1	0.0%	CLSNNGKHC---
193	S1	8.3%	SNPWSAQRELSV
194	S1	0.0%	CPNLTSARC---
195	S1	0.0%	AQVTVLGSPLPT
196	S1	0.0%	APTQGSPLPRML
197	S1	0.0%	NPNEREATNTAH
198	S1	0.0%	GETPAPM-----
199	S1	0.0%	CNHSGLLRC---
200	S1	8.3%	VTSPAAPIHSAD
201	S1	9.1%	SLPASWRSMPP-
202	S1	25.0%	STLHPGRPSHP

203	S1	0.0%	DCNDRKPTGDG
204	S1	0.0%	KNLNTTGMYAAS
205	S1	14.3%	KFIPGTY-----
206	S1	0.0%	KMPHFTLSKVA
207	S1	14.3%	TNPQPSL-----
208	S1	0.0%	AGTGKWQPRG--
209	S1	16.7%	YTYTSYNSRA
210	S1	0.0%	NKVTNGGAAQR-
211	S1	8.3%	HLQTPQPEHNNL
212	S1	0.0%	TMDATTPQVTHY
213	S1	0.0%	GMSRFNLDPTPA
214	S1	16.7%	SYSQHYGIPNPW
215	S1	0.0%	EGPPLSR-----
216	S1	8.3%	QPASDYATWPRS
217	S1	0.0%	ATTHRDVQNAFR
218	S1	0.0%	YWAATMP-----
219	S1	0.0%	HHPWRTA-----
220	S1	0.0%	GLCQSIMRERLS
221	S1	0.0%	GDRLIVP-----
222	S1	8.3%	SVSVEVKPIPTP
223	S1	0.0%	TLPAFGPRAHVL
224	S1	0.0%	QYLENNRWKVPS
225	S1	0.0%	QSLHQRL-----
226	S1	14.3%	LTLSPSA-----
227	S1	0.0%	QSANLLNPAKTM
228	S1	0.0%	YPMRAPTSQAWH
229	S1	0.0%	IVPLHLV-----
230	S1	14.3%	WVEVHYL-----
231	S1	14.3%	SHPSSK-----
232	S1	11.1%	CLTSPMGKC---
233	S1	14.3%	GRLVPPL-----
234	S1	0.0%	AITLAP-----
235	S1	8.3%	SPNFSWLPLGTT
236	S1	14.3%	VATPAHH-----
237	S1	8.3%	QVADTTQNTTGT
238	S1	33.3%	SFKPPANHHAWY
239	S1	8.3%	SDQLLLLSSANW
240	S1	14.3%	APAHPLT-----
241	S1	8.3%	AMSPRHISGPSV
242	S1	8.3%	IPLPPSRPFFK
243	S1	8.3%	LSTHTTESRSMV
244	S1	8.3%	KPYNLVSGANQP
245	S1	0.0%	CNANSMLRC---
246	S1	0.0%	CGHKNQFHC---
247	S1	0.0%	ALQRISPPQHWM
248	S1	0.0%	RAPASMPARLA
249	S1	0.0%	ANHLNPNASRVL
250	S1	8.3%	DLNELVLRSLRA
251	S1	0.0%	TMPNMGP-----
252	S1	0.0%	AMNPVSP-----
253	S1	0.0%	WR4PRATDVNLR
254	S1	0.0%	HEGTRSTASYPK
255	S1	0.0%	TAPPTWLQTQWA
256	S1	14.3%	AFVSHN-----
257	S1	0.0%	CETQAPMNVCP
258	S1	0.0%	NNQLSDV-----
259	S1	11.1%	CTCRPNNMC---
260	S1	11.1%	CSKSYEYNC---
261	S1	11.1%	CASNLTAYY---
262	S1	0.0%	TTHHYGKSGY-
263	S1	9.1%	QLSWNNRRFSI-
264	S1	16.7%	QSPVNHVHYHI
265	S1	9.1%	LRLTGLRAPYS-
266	S1	0.0%	RLHSDRALMID-
267	S1	11.1%	CTQMRTAYC---
268	S1	0.0%	WPQKAQP-----
269	S1	0.0%	CLMRFRC----
270	S1	0.0%	TEQSWIRILCAW
271	S1	8.3%	MWPTTTTSSPYH

272 S1	8.3%	S	S	S	NSELWPLLSA
273 S1	0.0%				HYTADKRHAERL
274 S1	0.0%				YPMRAPTCQAWH
275 S1	11.1%				GLGASYWWR---
276 S1	14.3%				MLFYPRP-----
277 S1	0.0%				NHHHQPLARNQS
278 S1	0.0%				ETANLRLQWGHS
279 S1	11.1%				CRSDPPRWC---
280 S1	14.3%	S			PTSKVP-----
281 S1	0.0%				AWLTGPRALGPL
282 S1	0.0%				CWTSAHAPC---
283 S1	0.0%				CSGKWQPRC---
284 S1	0.0%				CYQKMNPQC---
285 S1	0.0%				CTSKTISAC---
286 S1	14.3%	S			PFRAPT-----
287 S1	8.3%	S			CSYCLKSSTDL
288 S1	0.0%				YPPRAWDTPHPH
289 S1	0.0%				CYYAHDATC---
290 S1	0.0%				ARYHTHM-----
291 S1	0.0%				AWNTHGWASVTS
292 S1	8.3%	S			PVWRSTTNGEA
293 S1	0.0%				GITPSMAPGQRP
294 S1	14.3%				LTPVPGQ-----
295 S1	8.3%				AWRPYQNADYTF
296 S1	8.3%				QHYNIVNTQSRV
297 S1	0.0%				CINWARSAC---
298 S1	0.0%				GSPGQORAHNST
299 S1	16.7%				QTQALYHSRQVH
300 S1	0.0%				HTNTKPL-----
301 S1	0.0%				QALSWR-----
302 S1	0.0%				TPSWTSRPMAMP
303 S1	0.0%				TSFQNL-----
304 S1	0.0%				EHPTWIAPAAPT
305 S1	14.3%				IPTLPSS-----
306 S1	0.0%				HQITQPRSLLS
307 S1	0.0%				DETRAPL-----
308 S1	0.0%				AGDTTHGIPC--
309 S1	0.0%				KQLTSPPQLNPV
310 S1	0.0%				RSPEQORMHNST
311 S1	0.0%				TMNMQPMAAGPG
312 S1	14.3%	S			YTTSLK-----
313 S1	0.0%				KVITIWQ-----
314 S1	0.0%				GLQARHI-----
315 S1	14.3%				MPKYYLQ-----
316 S1	16.7%				WHISPLTHTSLV
317 S1	0.0%				CDSHKRLK---
318 S1	0.0%				TEQHW1KNIYAR
319 S1	14.3%				DGTTGLR-----
320 S1	8.3%				TKTYPPRGAQS
321 S1	28.6%				AAPRPYR-----
322 S1	8.3%				TPIGNKSPKSHA
323 S1	0.0%				NATLQSWVRDAR
324 S1	14.3%				NQDVPLF-----
325 S1	14.3%	S			APLASF-----
326 S1	0.0%				EANSLAPLAPIW
327 S1	14.3%				HAIYPRQ-----
328 S1	8.3%				LPSQMYLGPDRS
329 S1	11.1%				CQKQHPSSC---
330 S1	0.0%				CWTRTVAC---
331 S1	0.0%				GSHDWKR-----
332 S1	16.7%				AWKPOPSQFSAS
333 S1	8.3%				QPELPTRLRLSL
334 S1	0.0%				CMSTMMRSC---
335 S1	11.1%				CVKQSHAGTC---
336 S1	8.3%				ALPNPPWTSHTA
337 S1	0.0%				NMHKELT-----
338 S1	8.3%				AWPPPSMGPLAY
339 S1	0.0%				THPLHTNLPPTS
340 S1	0.0%				TKNMLSLPVC

341	S1	0.0%	HSGNIHQPLRSM
342	S1	0.0%	GWSSYRG-----
343	S1	9.1%	SVCGMKPSRP-
344	S1	8.3%	LLPDRNNAYS ^S DT
345	S1	8.3%	YYPASSTIQ ^S RP
346	S1	9.1%	NLT ^L ASYPSW-
347	S1	8.3%	TIPRITTTPT ^S WV
348	S1	0.0%	HPSLHALQGDHV
349	S1	42.9%	T ^F I ^N P ^S H-----
350	S1	0.0%	HGLPVTTRGAFG
351	S1	0.0%	WPSSYLSPIPYS
352	S1	8.3%	HIWSRPMFY ^S PA
353	S1	0.0%	CSCSNTKWC---
354	S1	0.0%	TWPHSIG-----
355	S1	8.3%	S ^S GMSAPYTTVTA
356	S1	0.0%	HWDPFSL SAYFP
357	S1	0.0%	HHLRTDMRWAT
358	S1	8.3%	TPLG ^P I ^L R ^N A ^H S
359	S1	8.3%	YYPAGSTIQ ^S RP
360	S1	0.0%	LPPWKHKTS ^G V ^A
361	S1	16.7%	DM ^K STIPAPT ^G G
362	S1	0.0%	TLNMHKLHLPDS
363	S1	0.0%	CPSTLRAQC---
364	S1	0.0%	AETRAPL-----
365	S1	0.0%	ADYRSSVGGGK-
366	S1	0.0%	MPTMASS-----
367	S1	8.3%	HNMV ^P SLLSTSK
368	S1	0.0%	EETSAPL-----
369	S1	0.0%	DMVQTSTRRLAL
370	S1	0.0%	CTNNHANIC---
371	S1	25.0%	S ^S DT ^L SR ^L HV ^S MT
372	S1	0.0%	HSIHSALTALAG
373	S1	8.3%	HLFPQSN ^V GGHS
374	S1	0.0%	FGNSDKLQTRAF
375	S1	14.3%	RPLP ^P TP-----
376	S1	0.0%	APT ^P RVAPLPV ^G
377	S1	8.3%	S ^S WPLYSRDSGL ^G
378	S1	0.0%	MPLQRTL-----
379	S1	0.0%	WTVQTPTMLPMM
380	S1	0.0%	CIRMDGQKC---
381	S1	0.0%	VRDSVTVNSRHS
382	S1	14.3%	S ^S PFRAPP-----
383	S1	8.3%	APPTSRQAGD ^G V
384	S1	14.3%	LPSAPRP-----
385	S1	0.0%	YWAQSSNGAARL
386	S1	28.6%	VY ^K PPGG-----
387	S1	0.0%	TNTSWMTAMTPF
388	S1	8.3%	ARQQTATT ^C G ^C
389	S1	0.0%	QPRPTSI-----
390	S1	0.0%	TSSKAMS-----
391	S1	28.6%	WPTL ^P YT-----
392	S1	10.0%	DC ^K PTTPTHC--
393	S1	16.7%	DAAD ^P PHVLT ^L T
394	S1	16.7%	A ^F AT ^S Y ^N LHDT
395	S1	0.0%	GGLLAV-----
396	S1	0.0%	CLTDVGRAC---
397	S1	8.3%	AQAKYWS ^V TKTT
398	S1	8.3%	HPNQADLPPG ^G L
399	S1	0.0%	RALMDMPAHRHA
400	S1	0.0%	TSVTMSSNEAWM
401	S1	0.0%	CYALKPPEC---
402	S1	0.0%	QLSGMLEWQ ^N L ^R
403	S1	0.0%	CPDPTTRLC---
404	S1	0.0%	LPRDLHATPQ ^Q I
405	S1	0.0%	CDLPTS ^R IC---
406	S1	16.7%	YHNP ^P YYQGAHD
407	S1	0.0%	CLLDDL ^R KC---
408	S1	0.0%	AIPSVP-----
409	S1	0.0%	KIIPETY-----

410	S1	0.0%	TTMFSTQSQKVP
411	S1	8.3%	MNDHKTPNSLR
412	S1	0.0%	VPPLLPL-----
413	S1	8.3%	ELKLTSAHAHTR
414	S1	25.0%	FMKSPIPAPPGG
415	S1	0.0%	APIHLHSEPLLH
416	S1	11.1%	CYGSTHQC---
417	S1	0.0%	EPHRTTW-----
418	S1	0.0%	GNTPSRA-----
419	S1	0.0%	HPPTHNTAPWHA
420	S1	14.3%	HDTYTAH-----
421	S1	8.3%	TVSINLPTSTMR
422	S1	0.0%	HSTKANSMLTIA
423	S1	0.0%	DGTRAQDAGGRP
424	S1	0.0%	YTPQKKIERAFG
425	S1	0.0%	NPFNQHLHAQHP
426	S1	8.3%	DHSSSTCRASAG
427	S1	8.3%	HPHQASGWTSP
428	S1	8.3%	WPTNAAHSLYRL
429	S1	8.3%	SDSAGMKPSPTP
430	S1	0.0%	GGVDAEW-----
431	S1	8.3%	YERPLHRLSID
432	S1	8.3%	SSDNHLAQLHT
433	S1	0.0%	TYAQLPI-----
434	S1	0.0%	DSGYHRAPRPWP
435	S1	0.0%	HDEGRRG-----
436	S1	8.3%	SAHGTSTGVPWP
437	S1	0.0%	ALHSARE-----
438	S1	0.0%	MDNQDGMNACAG
439	S1	0.0%	RPSSYMYAIPYR
440	S1	14.3%	STMPKFN-----
441	S1	16.7%	TVKAGWPVEDVP
442	S1	16.7%	SHALPMTWSTAA
443	S1	8.3%	AADYRSSVGGGK
444	S1	0.0%	VLPWYSP-----
445	S1	11.1%	CTDGPESSEC---
446	S1	8.3%	QRLIQDSVALWP
447	S1	0.0%	AGPLQPS-----
448	S1	16.7%	SMVYGNRLPSAL
449	S1	14.3%	WPLGDYF-----
450	S1	0.0%	CKHFRTMSC---
451	S1	0.0%	HQITQPTSLLS
452	S1	0.0%	TKTAASF-----
453	S1	0.0%	GETRAPV-----
454	S1	0.0%	DARHQSWHPHDL
455	S1	0.0%	LQPGHSVHNF
456	S1	0.0%	CMWLSQRAC---
457	S1	0.0%	GGSLVAKATAPN
458	S1	0.0%	CPGVHRSTC---
459	S1	11.1%	CFLPDGVRC---
460	S1	8.3%	LPVSKSVTQSH
461	S1	0.0%	NRAATMP-----
462	S1	0.0%	QPHLTNPGPRHL
463	S1	0.0%	MDAKNPLGPTTY
464	S1	0.0%	YVSAGMKPSP--
465	S1	0.0%	KLQTYNPHFRNP
466	S1	8.3%	SGLPHLSLNAPR
467	S1	0.0%	MHRSDLMSAAVR
468	S1	0.0%	DLIKYPPVTAWS
469	S1	14.3%	STYTNRA-----
470	S1	8.3%	HGHPYQHLRLVL
471	S1	16.7%	VPAWPAHQKLAK
472	S1	16.7%	STWSHHLSSAGL
473	S1	0.0%	CTHSKSSQC---
474	S1	8.3%	QGYRPIILPSHFL
475	S1	8.3%	VPPIINAVQVPFP
476	S1	8.3%	WTSKDVSILSPA
477	S1	25.0%	TPHKPLTSSSGP
478	S1	16.7%	TPAAPYATFGAP

479 S1	0.0%	ESLHQRL-----
480 S1	0.0%	IDNHMQL-----
481 S1	11.1%	CLDKPRFLC---
482 S1	11.1%	CNMNRYNTC---
483 S1	11.1%	CSSQYRPHYC---
484 S1	8.3%	APRLPQSLLPQL
485 S1	14.3%	TRVQLLH-----
486 S1	14.3%	MPMVPK-----
487 S1	8.3%	TPGNSFLDHMKQ
488 S1	8.3%	GLPKNMFWDASS
489 S1	8.3%	TTAAVDMPRSTP
490 S1	0.0%	GLQGRHI-----
491 S1	14.3%	YLTMPPT-----
492 S1	11.1%	CQHGRSSYC---
493 S1	0.0%	TOYFYLP-----
494 S1	14.3%	TELNLSV-----
495 S1	8.3%	STSKTLTDLFSY
496 S1	0.0%	AQDVTKNGLRW
497 S1	8.3%	ATGHPVWHWHSS
498 S1	0.0%	GETHAPL-----
499 S1	0.0%	GMWFSGL-----
500 S1	0.0%	LIAHSMPPRTRI
501 S1	0.0%	GGTRAPL-----
502 S1	8.3%	SPAANGPQPRPL
503 S1	8.3%	NAHLHITPRSTL
504 S1	0.0%	NPSSKQILSQVP
505 S1	0.0%	KVLHSDRALMID
506 S1	0.0%	CPLSSHPGC---
507 S1	8.3%	QPSKHISEARGF
508 S1	25.0%	SKIQVSPATVP
509 S1	0.0%	ADWHRTSTSPMS
510 S1	0.0%	EYSLYRILHMDE
511 S1	8.3%	GDTNPNPGKRSQI
512 S1	0.0%	ALQHQRAFQHR
513 S1	0.0%	HPMADHR-----
514 S1	0.0%	TQANAFSPAPRV
515 S1	0.0%	GITSAAT-----
516 S1	11.1%	CQSVPSDRC---
517 S1	0.0%	QAHLEKTAVPRM
518 S1	8.3%	HATPQKPLHSRM
519 S1	11.1%	CLSLKYQSC---
520 S1	0.0%	YPTRAPTSQAWH
521 S1	0.0%	WETRAPL-----
522 S1	0.0%	NEHKDARSPHSP
523 S1	0.0%	ITMPWHDTERSH
524 S1	0.0%	AKHVTAPHIREV
525 S1	0.0%	CNLLLRTPC---
526 S1	0.0%	GTLQLHNTHNST
527 S1	0.0%	CHWPMSASC---
528 S1	0.0%	QDALLAAPVISK
529 S1	8.3%	YHMPPSATPLTA
530 S1	0.0%	CHSGRSEHC---
531 S1	8.3%	WLKDSRAAWIRH
532 S1	8.3%	AILRPOLMPGSS
533 S1	22.2%	CGRINYGTC---
534 S1	0.0%	GSPRTP-----
535 S1	8.3%	SHSLALLDSVAS
536 S1	0.0%	CTQAFLPFC---
537 S1	0.0%	CLPMNNALC---
538 S1	0.0%	LDYHQAWGHTRA
539 S1	0.0%	FGIHAKYPSPIY
540 S1	0.0%	IPNDLNPRQLRG
541 S1	8.3%	DQRDYHYGRGT
542 S1	0.0%	CLSNNIVKHC--
543 S1	0.0%	NMFGSLTSHVTA
544 S1	8.3%	YWPRPDDSFWRP
545 S1	22.2%	CTKTQLHVC---
546 S1	0.0%	MNVLSSSASTES
547 S11	0.0%	CELRGDGWC---

548	S12	9.1%	GCHSSTWRACG-
549	S13	18.2%	GCPTPHSGTCG-
550	S14	9.1%	GCMNQHSSACG-
551	S15	9.1%	GCDSHKRLKCG-
552	S16	11.1%	CPDLHHHMC---
553	S17	0.0%	CLGQHAFTC---
554	S18	25.0%	SNTAPHC---
555	S19	11.1%	CHVLPNGNC---
556	S20	0.0%	CKPQYPLSC---
557	S21	0.0%	CQTARTPAC---
558	S22	0.0%	CNQSQPKHC---
559	S23	0.0%	CTPSKISVC---
560	S24	0.0%	CVSPGPRLC---
561	S25	0.0%	CYALSGVPC---
562	S26	11.1%	CKHPDPQFC---
563	S27	0.0%	CHQSKPLLC---
564	S28	0.0%	CPGPFSNWC---
565	S29	0.0%	CPHKTHLPC---
566	S30	22.2%	CVFPLSHYC---
567	S31	11.1%	CNNIAPSSC---
568	S32	0.0%	CTLGMQFQC---
569	S33	0.0%	CTNPTGMLC---
570	S34	0.0%	CSNMAPRSC---
571	S35	11.1%	CSMAPNMSC---
572	S36	0.0%	CSDLTMEAC---
573	S37	0.0%	CPWPYKYSC---
574	S38	22.2%	FGGNFHRC---
575	S39	0.0%	CLTTSQQTC---
576	S40	0.0%	CTANSGSFC---
577	S14	0.0%	CQEPLDESC---
578	S42	0.0%	CQMSMFARC---
579	S43	22.2%	CPLTPKAYC---
580	S44	0.0%	CNNSHTALC---
581	S45	0.0%	CLSSDITLC---
582	S46	11.1%	CLTHGPKYC---
583	S47	0.0%	CLGKDLRTC---
584	S48	0.0%	CAPKTHPLC---
585	S49	11.1%	CPTGLMKYC---
586	S50	0.0%	CTWKAPLQC---
587	S51	11.1%	CSHTLGPSC---
588	S52	0.0%	CLSTSQYSC---
589	S53	0.0%	CGNSNPKSC---
590	S54	0.0%	YCPRYVRRKLEN
591	S55	8.3%	NGYEIEWYSWVT
592	S56	8.3%	CNGYEIEWYSWV
593	S57	14.3%	YLTMPDP----
594	S58	28.6%	WPTPPYA-----
595	S59	0.0%	TPHNTVS-----
596	S60	14.3%	SLPAHAR-----
597	S61	0.0%	HSSLQTP-----
598	S62	0.0%	YSIPKSS-----
599	S63	14.3%	ALQPRYL-----
600	S64	0.0%	GREVD-----
	consensus/100%	
	consensus/90%	
	consensus/80%		t.....
	consensus/70%		t.....