

Reference sequence (1): S0
Identities normalised by aligned length.
Colored by: identity + property

		1 [.] 12
1 S0	100.0%	NRPSAQFW-HH
2 S1	0.0%	HGGVRLY-----
3 S2	0.0%	GQSEKHL-----
4 S3	0.0%	SLSKWSF-----
5 S4	0.0%	KIAVIST-----
6 S5	0.0%	TDNTKPK-----
7 S6	0.0%	TNWRTIN-----
8 S7	28.6%	VSRDTPQ-----
9 S8	0.0%	SFKIPYHYDSGQ
10 S9	8.3%	TIPRAPSPANTY
11 S10	0.0%	DSSNPFWRPSS
12 S11	8.3%	FYRHDTYNTHIT
13 S12	0.0%	HTKQIPRHIYSA
14 S13	0.0%	HAIYPRH-----
15 S14	0.0%	LNHHLGF-----
16 S15	22.2%	CQLLSARSC---
17 S16	0.0%	SVFLPTRHSPDL
18 S17	0.0%	ATTHRDVQNAFR
19 S18	8.3%	QTNDSRQPSYR
20 S19	0.0%	AALSMPP-----
21 S20	0.0%	HYQHNTHHPSRW
22 S21	16.7%	SHHPSYQWPLH
23 S22	14.3%	SVQLQQ-----
24 S23	0.0%	LVSKPYSLTKEI
25 S24	8.3%	QTAGKFNSAAHP
26 S25	0.0%	HSMPYGLVSGSK
27 S26	0.0%	THHTLFS-----
28 S27	0.0%	QPWPTSI-----
29 S28	0.0%	TPTLIKG-----
30 S29	16.7%	TTVYPARWGAHP
31 S30	0.0%	CNNQMLERC---
32 S31	0.0%	GTTTWLY-----
33 S32	0.0%	LAHNRTS-----
34 S33	14.3%	ETALIAA-----
35 S34	0.0%	LPVRLDW-----
36 S35	8.3%	SWMPHPRWSPQH
37 S36	0.0%	VNTGMGSRLTYM
38 S37	0.0%	SSYYPQLTAHRF
39 S38	8.3%	HTSSSVKMSDVL
40 S39	8.3%	DVQEKGHVDLNR
41 S40	0.0%	YPAIHYL-----
42 S41	8.3%	SLHSAIERPLS
43 S42	14.3%	QLPHTVL-----
44 S43	14.3%	ETPLQKS-----
45 S44	14.3%	LARDVQI-----
46 S45	14.3%	KLPVLYA-----
47 S46	28.6%	VNPHYLQ-----
48 S47	0.0%	QHYNIVNTQSRV
49 S48	14.3%	LPIVKAL-----
50 S49	0.0%	QSHYRHISPAQV
51 S50	0.0%	DLNYFTLSSKRE
52 S51	0.0%	CYQLNTSQC---
53 S52	0.0%	GSELYGL-----
54 S53	0.0%	QLWAPPW-----
55 S54	0.0%	YIGSQTNERYSP
56 S55	0.0%	FHVNPTSPTHPL
57 S56	0.0%	RADALNSHLSSP
58 S57	8.3%	LPDEELHRSRL
59 S58	0.0%	KNLNTTAMYAAS
60 S59	16.7%	NYHLTHPHILKT
61 S60	0.0%	FAIPLVP-----
62 S61	0.0%	SVSVGMKPSRP
63 S62	0.0%	GQSPHSYQPRTY
64 S63	8.3%	AQPNWTSLSRSLP

65	S64	0.0%	LPTPGYH-----
66	S65	8.3%	HYISPAWPTPPA
67	S66	0.0%	QHANHQAANNLR
68	S67	14.3%	TLPHTRL-----
69	S68	0.0%	GSLNESWLSSKF
70	S69	8.3%	YHKPPSPTPLEPA
71	S70	0.0%	HSITKPL-----
72	S71	0.0%	GETRAPL-----
73	S72	0.0%	MPAVMSSAQVPR
74	S73	16.7%	APIHLHSPKLLH
75	S74	16.7%	ERSWTLDSALSM
76	S75	0.0%	IPLVP-----
77	S76	0.0%	STGKPYMMLTGV
78	S77	0.0%	GSHNPHL-----
79	S78	0.0%	AKALYSANAPAV
80	S79	28.6%	NHWASPR-----
81	S80	8.3%	WSPGQQLHNST
82	S81	0.0%	TTGQAWR-----
83	S82	0.0%	KPLNMTLWPHPI
84	S83	8.3%	LIPGYSTSYQLS
85	S84	0.0%	STASYTR-----
86	S85	0.0%	MPAVMSSVQVPR
87	S86	0.0%	ALLTGPR-----
88	S87	16.7%	HHEPGAWLPLSP
89	S88	22.2%	CVARGAQTC---
90	S89	0.0%	ATGTNPPGSALS
91	S90	0.0%	ALHSARV-----
92	S1	14.3%	GPLWSSN-----
93	S1	14.3%	SNQWYAS-----
94	S1	16.7%	WAPGSMPTSRLA
95	S1	0.0%	DLQSGPMLYWAN
96	S1	0.0%	FLLLPGPHLSPQ
97	S1	8.3%	QPPSINLTLYPM
98	S1	0.0%	CPTPHSGTC---
99	S1	0.0%	AMNPRNHSDPSV
100	S1	8.3%	SVLP SMRLYTQP
101	S1	0.0%	SNALTDPSRYP-
102	S1	16.7%	HKAPSPKFDWVP
103	S1	0.0%	CHHAWPRGC---
104	S1	0.0%	TNIPHVTIDAQP
105	S1	0.0%	CHSSTWRAC---
106	S1	0.0%	WPKIQNELPPGR
107	S1	14.3%	HPVDAHV-----
108	S1	28.6%	QPPRSTS-----
109	S1	0.0%	CSEWGPNVG---
110	S1	16.7%	TTAYPARWGATP
111	S1	0.0%	GLAPRSA-----
112	S1	0.0%	SNYNLPV-----
113	S1	9.1%	GKTDPLTSAFL-
114	S1	0.0%	ILANDLTAPGPR
115	S1	0.0%	AWKSPSKLTC--
116	S1	8.3%	YPMRAPTSQARH
117	S1	0.0%	ATRAHQAPHYPP
118	S1	0.0%	TTVQQT-----
119	S1	8.3%	WNRSPA FSGPYL
120	S1	0.0%	VSTTTT-----
121	S1	8.3%	LPTATHPMPHIT
122	S1	0.0%	CSRFPNDWC---
123	S1	0.0%	VSRHQSWHPHDL
124	S1	14.3%	LPIAKAL-----
125	S1	0.0%	CMNQHSSAC---
126	S1	0.0%	HDVKYRLTSVE-
127	S1	0.0%	CTMKNGPSC---
128	S1	0.0%	CERMWRSYC---
129	S1	8.3%	YLP LVTSPSYDPG
130	S1	0.0%	LTNNANTINKSA
131	S1	0.0%	ANKLTSY-----
132	S1	16.7%	TMGFTAPRFPY
133	S1	8.3%	TNKDRHTYPYWA

134	S1	0.0%	VASPERTSPAFP
135	S1	0.0%	THLPWQT-----
136	S1	18.2%	GPHMLQNKLR-
137	S1	14.3%	AAQTSTP-----
138	S1	0.0%	SMVYGNSLPSAL
139	S1	0.0%	SSLEPWHRTTSR
140	S1	0.0%	APOLPWSARPAV
141	S1	33.3%	SHDWNQRELSV
142	S1	8.3%	LLADTTHHRPWT
143	S1	8.3%	SNTAAPKPNTTH
144	S1	0.0%	MHALNTNAPATW
145	S1	0.0%	TLHTGT-----
146	S1	0.0%	AWWWNPPLAY--
147	S1	0.0%	AMSTGHNSGPSV
148	S1	0.0%	HMLNYKIRSGGP
149	S1	8.3%	QPMQTRSTQLAS
150	S1	14.3%	WALDRGA-----
151	S1	8.3%	VAKHEGVSLRI
152	S1	0.0%	YAYEAMKPTPTP
153	S1	8.3%	RAAGSMPTPRLA
154	S1	8.3%	TPQNGPSTPMHA
155	S1	8.3%	TEQSWIQIYAR
156	S1	16.7%	NHTISQSHPTLG
157	S1	14.3%	ANNASPT-----
158	S1	0.0%	ATWSHRSSGAL
159	S1	0.0%	HNTTPL-----
160	S1	0.0%	SPATRNHMYTQD
161	S1	0.0%	CLLNKVGQC---
162	S1	8.3%	GPYRTGQAMTAL
163	S1	0.0%	CSLHPLRHC---
164	S1	0.0%	TLSTQSV-----
165	S1	28.6%	QLFTSAS-----
166	S1	14.3%	VYPHPER-----
167	S1	0.0%	AETTAPL-----
168	S1	22.2%	CSPKSLWSC---
169	S1	11.1%	CTPQTKHRC---
170	S1	8.3%	YGPMLQNKLR
171	S1	11.1%	CKPSDTRLC---
172	S1	0.0%	THSPGLNTPGER
173	S1	25.0%	DTPTHTNALPA
174	S1	0.0%	MQTGAPL-----
175	S1	0.0%	GSSNATT-----
176	S1	0.0%	CTASHTVTC---
177	S1	0.0%	HVIYPRH-----
178	S1	8.3%	HKAPSPKGDWAP
179	S1	0.0%	SQWHPRSASYPM
180	S1	11.1%	CKSDRTTHC---
181	S1	0.0%	CHSAKSAPC---
182	S1	0.0%	YASAGMKPSPTP
183	S1	0.0%	EHLRMHSGHYFT
184	S1	10.0%	SHSITSKFSV--
185	S1	11.1%	CCSCPQLC---
186	S1	0.0%	LDDNQDGGHTPT
187	S1	0.0%	ANYFLPPVLSSS
188	S1	0.0%	ELYTPTELAPAR
189	S1	0.0%	GTLYSSKQHMS
190	S1	0.0%	AETTPRV-----
191	S1	9.1%	LTAETHAYILS-
192	S1	0.0%	CLSNNGKHC---
193	S1	41.7%	SNPWSQRELSV
194	S1	0.0%	CPNLTSARC---
195	S1	8.3%	AQVTVLGSPPT
196	S1	0.0%	APTQGSPLPRML
197	S1	16.7%	NPNEREATNTAH
198	S1	0.0%	GETPAPM-----
199	S1	0.0%	CNHSGLLRC---
200	S1	8.3%	VTSPAAPIHSAD
201	S1	18.2%	SLPASWRSMP-
202	S1	8.3%	STLHPGRPSSP

203 S1	8.3%	DCNDKRKPTGDG
204 S1	0.0%	KNLNTTGMYAAS
205 S1	0.0%	KFIPGT-----
206 S1	8.3%	KMPHFTLSKVA
207 S1	14.3%	TNPQPSL-----
208 S1	10.0%	AGTGKWPQPRG--
209 S1	8.3%	YTYTSYSNSSRA
210 S1	9.1%	NKVTNGGAAQR-
211 S1	0.0%	HLQTPQPEHNNL
212 S1	8.3%	TMDATTPQVTHY
213 S1	0.0%	GMSRFNLDPTPA
214 S1	0.0%	SYSQHYGIPNPW
215 S1	14.3%	EGPPLSR-----
216 S1	8.3%	QPASDYATWPRS
217 S1	0.0%	ATTHRDVQNAFR
218 S1	0.0%	YWAATMP-----
219 S1	14.3%	HHPWRTA-----
220 S1	8.3%	GLCQSIMRERLS
221 S1	0.0%	GDRLIVP-----
222 S1	0.0%	SVSVEVKPIPTP
223 S1	8.3%	TLPAFGPRAHVL
224 S1	0.0%	QYLENNRWKVPS
225 S1	0.0%	QSLHQRL-----
226 S1	0.0%	LTLSPSA-----
227 S1	0.0%	QSANLLNPAKTM
228 S1	8.3%	YPMRAPTSQAWH
229 S1	14.3%	IVPLHLV-----
230 S1	0.0%	WVEVHYL-----
231 S1	14.3%	SPHPSSK-----
232 S1	0.0%	CLTSPMGKC---
233 S1	14.3%	RLVPPL-----
234 S1	0.0%	AITLAP-----
235 S1	8.3%	SPNFSWLPLGTT
236 S1	0.0%	VATPAHH-----
237 S1	16.7%	QVADTTQNTTGT
238 S1	8.3%	SFKPPANHHAWY
239 S1	0.0%	SDQLLLLSSANW
240 S1	0.0%	APAHPLT-----
241 S1	0.0%	AMSPRHHSGPSV
242 S1	0.0%	IPLPPSRPFCK
243 S1	0.0%	LSTHTTESRSMV
244 S1	0.0%	KPYNLYSGANQP
245 S1	11.1%	CNANSMRLC---
246 S1	0.0%	CGHKNQFHC---
247 S1	0.0%	ALQRISPPQHWM
248 S1	16.7%	RAPASMPPTARLA
249 S1	0.0%	ANHLNPNASRVL
250 S1	8.3%	DLNELYLRSRA
251 S1	14.3%	TMPNMGP-----
252 S1	0.0%	AMNPVSP-----
253 S1	16.7%	WR4PRATDVNLR
254 S1	0.0%	HEGTRSTASYPK
255 S1	8.3%	TAPPTWLQTQWA
256 S1	28.6%	AFPVSHN-----
257 S1	0.0%	CETQAPMNVCP
258 S1	28.6%	NNQLSDV-----
259 S1	0.0%	CTCRPNMNC---
260 S1	0.0%	CSKSYEYNC---
261 S1	0.0%	CASNLTAYY---
262 S1	0.0%	TTHHYGYKSGY-
263 S1	0.0%	QLSWNNRRFSI-
264 S1	16.7%	QSPVNHYYHYLI
265 S1	9.1%	RLIGLRAPYS-
266 S1	0.0%	RLHSDRALMID-
267 S1	0.0%	CTQMRTAYC---
268 S1	0.0%	WPQKAQP-----
269 S1	0.0%	CLMRFRC----
270 S1	0.0%	TEQSWIRILCAW
271 S1	16.7%	MWPTTTHSSPYH

272	S1	8.3%	SSNSELWPL	L	SA
273	S1	0.0%	HYTADKRHAERL		
274	S1	8.3%	YPMRAPTCQAW	H	
275	S1	11.1%	GLGAS	Y	WWR---
276	S1	0.0%	MLFYPRP	-----	
277	S1	8.3%	N	HHHQPLARNQS	
278	S1	16.7%	ETANLR	LQ	WGHS
279	S1	22.2%	C	S	DPPRWC---
280	S1	0.0%	SPTSKVP	-----	
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	0.0%	SPFRAPT	-----	
287	S1	0.0%	SCSYCLKSSTD	L	
288	S1	16.7%	YPP	RAWDT	PHPH
289	S1	0.0%	CYYAHDATC	---	
290	S1	14.3%	A	R	YHTHM-----
291	S1	0.0%	AWNTHGWASVTS		
292	S1	0.0%	SPVWRSTTNGEA		
293	S1	8.3%	GITP	S	MAPGQRP
294	S1	28.6%	L	T	VPGQ-----
295	S1	0.0%	AWRPYQNADYTF		
296	S1	0.0%	QHYNIVNTQSRV		
297	S1	0.0%	CINWARSAC	---	
298	S1	8.3%	GSP	G	QQRANHST
299	S1	8.3%	QTQALYHSRQV	H	
300	S1	0.0%	HTNTKPL	-----	
301	S1	0.0%	QALSWR	-----	
302	S1	0.0%	TPSWTSRPMAMP		
303	S1	0.0%	TSFQNLS	-----	
304	S1	8.3%	EHP	T	WIAPAAPT
305	S1	0.0%	IPTLPSS	-----	
306	S1	8.3%	HQITQPRSL	L	SP
307	S1	0.0%	DETRAPL	-----	
308	S1	0.0%	AGDTTHGIPC	--	
309	S1	8.3%	KQLT	S	PQPQNPV
310	S1	8.3%	RS	P	EQQRMHNST
311	S1	0.0%	TMNMQPMAAGPG		
312	S1	14.3%	SYTT	S	SLK-----
313	S1	14.3%	KVIT	I	WQ-----
314	S1	0.0%	GLQARHI	-----	
315	S1	14.3%	MPKYYL	Q	-----
316	S1	0.0%	WHISPLTHTSLV		
317	S1	0.0%	CDSHKRLKC	---	
318	S1	0.0%	TEQHW1KNIYAR		
319	S1	0.0%	DGTIGLR	-----	
320	S1	0.0%	TKTYPPRGGAS		
321	S1	14.3%	AAP	R	PYR-----
322	S1	8.3%	TPIGNKSPKSH	A	
323	S1	8.3%	N	ATLQSWVRDAR	
324	S1	14.3%	N	QDVPLF	-----
325	S1	14.3%	SAP	L	ASF-----
326	S1	8.3%	EANSL	A	PLAPIW
327	S1	14.3%	HAIYPR	Q	-----
328	S1	0.0%	LPSQMYLGPDRS		
329	S1	0.0%	CQKGHPSSC	---	
330	S1	0.0%	CWTTTRTVAC	---	
331	S1	14.3%	GSH	D	WKR-----
332	S1	0.0%	AWKPQPSQFSAS		
333	S1	0.0%	QPELPTRLRLSL		
334	S1	0.0%	CMSTMMRSC	---	
335	S1	11.1%	CVKSH	A	GTC---
336	S1	8.3%	ALP	N	PPWTSHTA
337	S1	14.3%	N	M	HKELT-----
338	S1	16.7%	AWP	P	PSMGPLAY
339	S1	8.3%	THP	L	LHTNLPPTS
340	S1	0.0%	TKNMLS	L	PVCPG

341 S1	8.3%	HSGNIHQPLRSM
342 S1	0.0%	GWSSYRG-----
343 S1	0.0%	SVCGMKPSRP-
344 S1	16.7%	LLPDRNNAYSDT
345 S1	16.7%	YYPASSTIQSRP
346 S1	9.1%	NLTIASYPSWV-
347 S1	8.3%	TIPRITTPTSWV
348 S1	16.7%	HPSLHALQGDIV
349 S1	0.0%	TFINPSH-----
350 S1	0.0%	HGLPVTTRGAFG
351 S1	0.0%	WPSSYLSPIPYS
352 S1	8.3%	HIWSRPMFYSPA
353 S1	0.0%	CSCSNTKWC---
354 S1	28.6%	TWPHSIG-----
355 S1	0.0%	SGMSAPYTTVTA
356 S1	0.0%	HWDPFSLSAYFP
357 S1	8.3%	HHLRTDMRWAT
358 S1	8.3%	TPLGPILRNAHS
359 S1	8.3%	YYPAGSTIQSRP
360 S1	8.3%	LPPWKHKTSGVA
361 S1	0.0%	DMKSTIPAPTGG
362 S1	0.0%	TLNMHKLHLPDS
363 S1	0.0%	CPSTLRAQC---
364 S1	0.0%	AETRAPL-----
365 S1	9.1%	ADYRSSVGGGK-
366 S1	0.0%	MPTMASS-----
367 S1	0.0%	HNMVPSLLSTSK
368 S1	0.0%	EETSAPL-----
369 S1	8.3%	DMVQTSTRRLAL
370 S1	11.1%	CTNNHANIC---
371 S1	8.3%	SDTISRHLHVSMT
372 S1	25.0%	HSIHSALTAIAG
373 S1	8.3%	HLFPQSNYGGHS
374 S1	0.0%	FGNSDKLQTRAF
375 S1	0.0%	RPLPPTP-----
376 S1	0.0%	APTPRVAPLPVG
377 S1	8.3%	SWPLYSRDSGLG
378 S1	0.0%	MPLQRTL-----
379 S1	0.0%	WTVQTPTMLPMM
380 S1	11.1%	CIRMDGQKC---
381 S1	16.7%	VRDSVTVNSRHS
382 S1	0.0%	SPFRAPP-----
383 S1	25.0%	APPTSRQAGDGV
384 S1	0.0%	LPSAPRP-----
385 S1	8.3%	YWAQSSNGAARL
386 S1	0.0%	VYKPPGG-----
387 S1	0.0%	TNTSWMTAMTPF
388 S1	8.3%	ARQQTATTTCGC
389 S1	0.0%	QPRPTSI-----
390 S1	0.0%	TSSKAMS-----
391 S1	0.0%	WPTLPYT-----
392 S1	0.0%	DCKPTTPTHC--
393 S1	8.3%	DAADPPHVLTLT
394 S1	8.3%	AFATSYSNLHDT
395 S1	0.0%	GGLLAV-----
396 S1	11.1%	CLTDVGRAC---
397 S1	0.0%	AQAKYWSYKTT
398 S1	0.0%	HPNQADLPPGGL
399 S1	8.3%	RALMDMPAHRHA
400 S1	0.0%	TSVTMSSNEAWM
401 S1	0.0%	CYALKPPEC---
402 S1	0.0%	QLSGMLEWQNL
403 S1	0.0%	CPDPTTRLC---
404 S1	8.3%	LPRDLHATPQQI
405 S1	0.0%	CDLPTSRIC---
406 S1	8.3%	YHHNPYYQGAHD
407 S1	11.1%	CLLDPLRKC---
408 S1	16.7%	AIPSPV-----
409 S1	0.0%	KIIPETY-----

410	S1	16.7%	TTMFSTQSQKVP
411	S1	0.0%	MNDHKTPNSSLR
412	S1	14.3%	VPDLLPL-----
413	S1	0.0%	ELKLTSAHAHTR
414	S1	0.0%	FMKSPIAPPGG
415	S1	16.7%	APIHLHSEPLHL
416	S1	0.0%	CYGSTHHQC---
417	S1	0.0%	EPHRTTW-----
418	S1	14.3%	GNTPSRA-----
419	S1	16.7%	HPDTHNTAPWHA
420	S1	14.3%	HDTYTAH-----
421	S1	0.0%	TVSINLPTSTMR
422	S1	0.0%	HSTKANSMLTIA
423	S1	0.0%	DGTRAQDAGGRP
424	S1	8.3%	YTPQKKIERAFG
425	S1	16.7%	NPFNOHLHAQIP
426	S1	8.3%	DHHSSTCRASAG
427	S1	0.0%	HPHQASGWTSP
428	S1	8.3%	WPTNAHSLYRL
429	S1	0.0%	SDSAGMKPSPTP
430	S1	14.3%	GGVDAEW-----
431	S1	0.0%	YERPLHRLSSID
432	S1	25.0%	SSSDNHLAQHLT
433	S1	0.0%	TYAQLPI-----
434	S1	0.0%	DSGYHRAPRPWP
435	S1	0.0%	HDEGRRG-----
436	S1	0.0%	SAHGTSTGVPWP
437	S1	0.0%	ALHSARE-----
438	S1	0.0%	MDNQDGMNACAG
439	S1	0.0%	RPSSYMYAIPYR
440	S1	0.0%	STMPKFN-----
441	S1	0.0%	TVKAGWPYEDVP
442	S1	0.0%	SHALPMTWSTAA
443	S1	0.0%	AADYRSSVGGGK
444	S1	14.3%	VLPWYSP-----
445	S1	0.0%	CTDGPESEC---
446	S1	16.7%	QLLIQDSVALWP
447	S1	14.3%	AGPLQPS-----
448	S1	0.0%	SMVYGNRLPSAL
449	S1	0.0%	WPLGDYP-----
450	S1	0.0%	CKHFRTMSC---
451	S1	8.3%	HQITQPTSLSP
452	S1	0.0%	TKTAASF-----
453	S1	0.0%	GETRAPV-----
454	S1	0.0%	DARHQSWHPHDL
455	S1	8.3%	LQPGHSVHNFSK
456	S1	11.1%	CMWLSORAC---
457	S1	8.3%	GGSLVAKATAPN
458	S1	0.0%	CPGVHRSTC---
459	S1	0.0%	CFLPDGVRC---
460	S1	8.3%	LPVSKSVTQSH
461	S1	28.6%	NRATMP-----
462	S1	8.3%	QPHLTNPGPRHL
463	S1	0.0%	MDAKNPLGPTTY
464	S1	0.0%	YVSAGMKPSP--
465	S1	0.0%	KLQTYNPHFRNP
466	S1	0.0%	SGLPHLSLNAPR
467	S1	0.0%	MHRSDLMSAAVR
468	S1	0.0%	DLIKYPPVTAWS
469	S1	0.0%	STYTNR-----
470	S1	0.0%	HGHPYQHLLRVL
471	S1	16.7%	VPAWPAHQKPAK
472	S1	0.0%	STWSHHLSSAGL
473	S1	0.0%	CTHSKSSQC---
474	S1	0.0%	QGYRPILPSHFL
475	S1	16.7%	VPPINAVQVPFP
476	S1	0.0%	WTSKDVSI LSPA
477	S1	0.0%	TPHKPLTSSSGP
478	S1	0.0%	TPAAPYATFGAP

479 S1	0.0%	ESLHQRL-----
480 S1	0.0%	IDNHMQL-----
481 S1	0.0%	CLDKPRFLC---
482 S1	0.0%	CNMNRYNTC---
483 S1	0.0%	CSSQYRPHY---
484 S1	0.0%	APRLPQSLLPQL
485 S1	14.3%	R VQLLH-----
486 S1	0.0%	MPMVPPK-----
487 S1	8.3%	TPGNSFLDHMKQ
488 S1	8.3%	GLPKNMFWDASS
489 S1	0.0%	TTAAVDMPRSTP
490 S1	0.0%	GLQGRHI-----
491 S1	0.0%	YLTMTPT-----
492 S1	0.0%	CQHGRSSYC---
493 S1	0.0%	TQYFYLP-----
494 S1	14.3%	TFLNSLV-----
495 S1	0.0%	STSKTLTDLFSY
496 S1	0.0%	AQDVTKNGLRRW
497 S1	8.3%	ATGHPVWHHSS
498 S1	0.0%	GETHAPL-----
499 S1	14.3%	GMWFSGL-----
500 S1	8.3%	LIAHSMPPRTRI
501 S1	0.0%	GGTRAPL-----
502 S1	0.0%	SPAANGPQPRPL
503 S1	8.3%	N AHLHITPRSTL
504 S1	8.3%	N PSSKQILSQVP
505 S1	8.3%	KVLHSDRALMID
506 S1	11.1%	CPLSSHPGC---
507 S1	0.0%	QPSKHISEARGF
508 S1	0.0%	SSKIQVSPATVP
509 S1	0.0%	ADWHTSTSPMS
510 S1	0.0%	EYSLYRILHMDE
511 S1	0.0%	GDTNNPGKRSQI
512 S1	8.3%	ALQHQRALQHQR
513 S1	0.0%	HPMADHR-----
514 S1	0.0%	TQANAFSPAPRV
515 S1	14.3%	GITSAAIT-----
516 S1	0.0%	CQSVPSDRC---
517 S1	0.0%	QAHLEKTAVPRM
518 S1	0.0%	HATPQKPLHSRM
519 S1	11.1%	CLSLKYQSC---
520 S1	8.3%	YPTRAPTSQAWH
521 S1	0.0%	WETRAPL-----
522 S1	16.7%	N EHKDA ¹ RSPHSP
523 S1	8.3%	ITMPWHDTERS ^H
524 S1	8.3%	AKHVTAPHIREV
525 S1	0.0%	CNWLRLTPC---
526 S1	0.0%	GTLQLHNTHNST
527 S1	0.0%	CHWPMASASC---
528 S1	8.3%	QDALLAAPVISK
529 S1	8.3%	YHMPPSATPLTA
530 S1	0.0%	CHSGRSEHC---
531 S1	33.3%	WLKDSRAAWIRH
532 S1	0.0%	AILRPQLMPGSS
533 S1	0.0%	CGRINYGTC---
534 S1	14.3%	GSPRPTP-----
535 S1	0.0%	SHSLALLDSVAS
536 S1	11.1%	CTQAFLPFC---
537 S1	11.1%	CLPMNNALC---
538 S1	8.3%	LDYHQA ¹ WGHTRA
539 S1	0.0%	FGIHAKYPSPIY
540 S1	16.7%	IPNDLNPRO ¹ RG
541 S1	8.3%	DQRDYHYGRGGT
542 S1	0.0%	CLSNNIVKHC--
543 S1	16.7%	N MFGSLTSHVTA
544 S1	8.3%	YWRPDDSFWRP
545 S1	0.0%	CTKTQLHVC---
546 S1	8.3%	MNVLSSSASTES
547 S11	0.0%	CELRGDGWC---

548	S12	9.1%	GCHS S TWRACG-
549	S13	9.1%	GC P TPHSGTCG-
550	S14	0.0%	GCMNQHSSACG-
551	S15	0.0%	GCDSHKRLKCG-
552	S16	0.0%	CPDLHHHMC---
553	S17	11.1%	CLGQH A FTC---
554	S18	0.0%	SSNTAPHC----
555	S19	0.0%	CHVLPNGNC---
556	S20	11.1%	CK P QYPLSC---
557	S21	0.0%	CQTARTPAC---
558	S22	0.0%	CNQSQPKHC---
559	S23	11.1%	CT P SKISVC---
560	S24	0.0%	CVSPGPRLC---
561	S25	11.1%	CYAL S GVPC---
562	S26	11.1%	CKHPPQ P FC---
563	S27	0.0%	CHQSKPLLC---
564	S28	0.0%	CPGPFSNWC---
565	S29	0.0%	CPHKTHLPC---
566	S30	0.0%	CVFPLSHYC---
567	S31	0.0%	CNNIAPSSC---
568	S32	0.0%	CTLGMQFQC---
569	S33	0.0%	CTNPTGMLC---
570	S34	0.0%	CSNMAPRSC---
571	S35	0.0%	CSMAPNMSC---
572	S36	0.0%	CSDLTMEAC---
573	S37	0.0%	CPWPYKYSC---
574	S38	0.0%	CFGGNFHRC---
575	S39	22.2%	CLTT S QTC---
576	S40	22.2%	CTAN S GSFC---
577	S14	0.0%	CQEPLDESC---
578	S42	0.0%	CQMSMFARC---
579	S43	0.0%	CPLTPKAYC---
580	S44	0.0%	CNNSHTALC---
581	S45	0.0%	CLSSDITLC---
582	S46	0.0%	CLTHGPKYC---
583	S47	0.0%	CLGKDLRTC---
584	S48	11.1%	CA P KTHPLC---
585	S49	0.0%	CPTGLMKYC---
586	S50	0.0%	CTWKAPLQC---
587	S51	0.0%	CSHILGPSC---
588	S52	11.1%	CLST S QYSC---
589	S53	0.0%	CGNSNPKSC---
590	S54	16.7%	YC P RYVRRK L EN
591	S55	8.3%	N GYEIEWYSWV
592	S56	0.0%	CNGYEIEWYSWV
593	S57	0.0%	YLTMTPT-----
594	S58	0.0%	WPTPPYA-----
595	S59	0.0%	TPHNTVS-----
596	S60	28.6%	SL P A H AR-----
597	S61	0.0%	HSSLQTP-----
598	S62	0.0%	YSIPKSS-----
599	S63	0.0%	ALQPRYL-----
600	S64	20.0%	G R E VD-----
consensus/100%			
consensus/90%			
consensus/80%			t.....
consensus/70%			t.....