

**Supplementary Figure S2**

**Alignment of Cdc73 homologues**, made using MegAlign (DNAStar). Details as for Figure S1. Organisms are: Tb- *T. brucei*; Sc- *Saccharomyces cerevisiae*; Sp- *Schizosaccharomyces pombe* NP\_595891.1; Hs- *Homo sapiens* NP\_078805.3; Dd- *Dictyostelium discoideum* XP\_644100.3; Ng- *Naegleria gruberi* XP\_002683436.1; Pf- *Plasmodium falciparum* XP\_001351765.1; Tt- *Tetrahymena thermophila* EAR84002.1; Pi- *Phytophthora infestans* XP\_002903756.1; Eh- *Entamoeba histolytica* XP\_648719.1; Tv- *Trichomonas vaginalis* XP\_001310227.1; Tp- *Thalassosira pseudonana* XP\_002287950.1.

					Consensus #1	Majority
	10	20	30	40		
1	-	-	-	-	TbCdc73	
1	-	-	-	-	ScCdc73	
1	-	-	-	-	SpCdc73	
1	-	-	-	-	HsCdc73	
1	-	-	-	-	DdCdc73	
1	-	-	-	-	NgCdc73	
1	M E N K I M L N I K V L M K K F L T E E K E Y I K F M N K E K N D I I V F E K E				PfCdc73	
1	-	-	-	-	TtCdc73	
1	-	-	-	-	PiCdc73	
1	-	-	-	-	EhCdc73	
1	-	-	-	-	TvCdc73	
1	-	-	-	-	TpCdc73	
					Consensus #1	Majority
	50	60	70	80		
1	-	-	-	-	TbCdc73	
1	-	-	-	-	ScCdc73	
1	-	-	-	-	SpCdc73	
1	-	-	-	-	HsCdc73	
1	-	-	-	-	DdCdc73	
1	-	-	-	-	NgCdc73	
41	N L Y I Y T N V L C G I E S R K K E K Y N V G D I Y L F L C L A K S N Y T F S Y				PfCdc73	
1	-	-	-	-	TtCdc73	
1	-	-	-	-	PiCdc73	
1	-	-	-	-	EhCdc73	
1	-	-	-	-	TvCdc73	
1	-	-	-	-	TpCdc73	
					Consensus #1	Majority
	90	100	110	120		
1	-	-	-	-	TbCdc73	
1	-	-	-	-	ScCdc73	
1	-	-	-	-	SpCdc73	
1	-	-	-	-	HsCdc73	
1	-	-	-	-	DdCdc73	
1	-	-	-	-	NgCdc73	
81	I N S I G Y K Y I S I L E R N K I I K T I E E N Q E D T D E I K I N C Y I Y D Q				PfCdc73	
1	-	-	-	-	TtCdc73	
1	-	-	-	-	PiCdc73	
1	-	-	-	-	EhCdc73	
1	-	-	-	-	TvCdc73	
1	-	-	-	-	TpCdc73	

				Consensus #1 Majority
		130	140	150
1	-	-	-	TbCdc73
1	-	-	-	ScCdc73
1	-	-	-	SpCdc73
1	-	-	-	HsCdc73
1	-	-	-	DdCdc73
1	-	-	-	NgCdc73
121	E K N I N L N K Y I N T H N D Y L I N I D L F D K L D D V E M E S D I L F T Q K	PfCdc73		
1	-	-	-	TtCdc73
1	-	-	-	PiCdc73
1	-	-	-	EhCdc73
1	-	-	-	TvCdc73
1	-	-	-	TpCdc73
		170	180	190
1	-	-	-	TbCdc73
1	-	-	-	ScCdc73
1	-	-	-	SpCdc73
1	-	-	-	HsCdc73
1	-	-	-	DdCdc73
1	-	-	-	NgCdc73
161	N Y N N D I Y D K F N Q D K Q N N D E Y I S N I N D K I I E K K N I N E D T H N	PfCdc73		
1	-	-	-	TtCdc73
1	-	-	-	PiCdc73
1	-	-	-	EhCdc73
1	-	-	-	TvCdc73
1	-	-	-	TpCdc73
		210	220	230
1	-	-	-	TbCdc73
1	-	-	-	ScCdc73
1	-	-	-	SpCdc73
1	-	-	-	HsCdc73
1	-	-	-	DdCdc73
1	-	-	-	NgCdc73
201	Y T D E N L I S F D Y T K K L F D I N K I N E S F I I H M K N D D I F F C T S L	PfCdc73		
1	-	-	-	TtCdc73
1	-	-	-	PiCdc73
1	-	-	-	EhCdc73
1	-	-	-	TvCdc73
1	-	-	-	TpCdc73

					Consensus #1	
					Majority	
1	-	-	-	-	-	TbCdc73
1	-	-	-	-	-	ScCdc73
1	-	-	-	-	-	SpCdc73
1	-	-	-	-	-	HsCdc73
1	-	-	-	-	-	DdCdc73
1	-	-	-	-	-	NgCdc73
241	Y N K Y K M R K S S K K K I N K L K K R K Y N F I Q D D V C S T I Y D E M V Y F	PfCdc73				
1	-	-	-	-	-	TtCdc73
1	-	-	-	-	-	PiCdc73
1	-	-	-	-	-	EhCdc73
1	-	-	-	-	-	TvCdc73
1	-	-	-	-	-	TpCdc73
					f f . f f . . f b . . f .	Consensus #1
					M A D I L X L L R K X L X	Majority
1	-	-	-	-	-	TbCdc73
1	-	-	-	-	M A N S L D R L R E H L K	ScCdc73
1	-	-	-	-	- D S L L L L K S A	SpCdc73
1	-	-	-	-	M A D L S V L R Q Y N I	HsCdc73
1	-	-	-	-	- M A D L T I L R G I L L	DdCdc73
1	-	-	-	-	M D D I L E Q L N N T K	NgCdc73
281	N N N E I N T I I E G N N N V N N N F D F I K V E H N M E R I N K T N Y D L Y	PfCdc73				
1	-	-	-	-	- R N K R P N K I	TtCdc73
1	-	-	-	-	M A S K E D T L G A L R	PiCdc73
1	-	-	-	-	- M S S G L Q L L R K W E	EhCdc73
1	-	-	-	-	M P S T A A S P I P L L Q K A C A	TvCdc73
1	-	-	-	-	-	TpCdc73
					. . . f . . -	Consensus #1
					E X K X I X -	Majority
1	-	-	-	-	-	TbCdc73
14	N G D K [REDACTED] V -	ScCdc73				
13	[REDACTED] E K K D [REDACTED] K -	SpCdc73				
14	Q K K E I V V K G D E V I F G E F S W P K N V K T N Y V V W G T G K E G Q P R E	HsCdc73				
14	[REDACTED] E G G T [REDACTED] N I E G D D Y S L G R Y K F N K N T P T A F K S S - - - - T G S	DdCdc73				
14	S N T P I I N D N T N I I F G E K Q Y P I N G Q V K F Q S S - - - - T - -	NgCdc73				
321	N D N Q K N N M D D H T Y N N D L Y Y Y N D N N V S D E N E K K L K T Y N L V K	PfCdc73				
11	D P L E [REDACTED] L R -	TtCdc73				
14	A L R A H L I A G -	PiCdc73				
1	-	EhCdc73				
16	[REDACTED] E H K T I D -	TvCdc73				
20	A S L P T T T S L S P D G Q T L T I L S T P H D A T A Q L T L T L P D N K T V T	TpCdc73				

				Consensus #1	
				Majority	
	370	380	390	400	
1	- - - - -	- - - - -	- - - - -	- - - - -	TbCdc73
20	- - - - -	- - - - -	- - - - -	- - - - -	ScCdc73
19	- - - - -	- - - - -	- - - - -	- - - - -	SpCdc73
54	Y Y T L D S I L F L L N N V H L S H P V Y V R R A A T E N I P V V R R P D R K D	- - - - -	- - - - -	- - - - -	HsCdc73
47	N Y S L G F S L F F T F K S Y F K Y G A Y I L A A S R S N I Q A V N F N D K K E	- - - - -	- - - - -	- - - - -	DdCdc73
45	- L T L G Q V W I C L K C I N D D Y S V Y L K Q C K E A N L N P V N I G I K N L	- - - - -	- - - - -	- - - - -	NgCdc73
361	H Y Y E N N V F K N I F F Q N M M N L Y S L I K N I Y L T N I S N E E Y I D K S T	- - - - -	- - - - -	- - - - -	PfCdc73
18	- - - - -	- - - - -	- - - - -	- - - - -	TtCdc73
23	- - - - -	- - - - -	- - - - -	- - - - -	PiCdc73
1	- - - - -	- - - - -	- - - - -	- - - - -	EhCdc73
22	- - - - -	- - - - -	- - - - -	- - - - -	TvCdc73
60	Y S L A S I Y L Q L L H P G V L Q Y R K A C E G A G - - V E D P V K V L D K A G	- - - - -	- - - - -	- - - - -	TpCdc73
	f . . . - - - - -	. . . . f . . . .	f . . . f . f . .	f . . . f . f . .	Consensus #1
	X - - - - -	- - - - - T S X X E K X X X X X D X K F D G	- - - - -	- - - - -	Majority
	410	420	430	440	
1	- - - - -	- - - - - M S L R E D W G R V D E V C N M	- - - - -	- - - - -	TbCdc73
20	K N N E - - - - -	- - - - - G Q S T D D T K A T M E T S S D G	- - - - -	- - - - -	ScCdc73
19	L A S - - - - -	- - - - - S E A T S K E K I E D Q Y L F D E	- - - - -	- - - - -	SpCdc73
94	L G Y L N G - - - - -	- - - - - E A S T S A S I D R S A A L E I G L Q R S T Q K R	- - - - -	- - - - -	HsCdc73
87	L S Y L D G G E - I T A S I Q F D S L P T S T P T L G S I S T A D D T T I	- - - - -	- - - - -	- - - - -	DdCdc73
84	K S Y F - - - - -	- - - - - N V Q D T S F K T S T T G E K Q T K	- - - - -	- - - - -	NgCdc73
401	H F I I Q N F Y N N F I Y Y I E N Y D K Y V L M S N E H R Q E Q K N K N N N	- - - - -	- - - - -	- - - - -	PfCdc73
18	- - - - -	- - - - - E F T N K K D V K K D Q Y L F	- - - - -	- - - - -	TtCdc73
23	- - - - -	- - - - - K P V E V E G E N V F R D S G	- - - - -	- - - - -	PiCdc73
1	- - - - -	- - - - -	- - - - -	- - - - -	EhCdc73
22	- - - - -	- - - - - D S D G F I S	- - - - -	- - - - -	TvCdc73
98	T S F F L D A P - - - S - - - D G G V D G E G E G T T P K D G	- - - - -	- - - - -	- - - - -	TpCdc73
	. . p a . f . . . . . . . . . . p p . f p f . . f f f p . . p . . - - -	- - - - -	- - - - -	- - - - -	Consensus #1
	X D G E S L X X E X K T R X X K X K E G S K L S L R L X X L S X X X X X - - -	- - - - -	- - - - -	- - - - -	Majority
	450	460	470	480	
18	D S E P L P E E F V P S E F L P G G E L P D L H Y L R S A N - - - - -	- - - - -	- - - - -	- - - - -	TbCdc73
45	S T I S P L N E E T E I E I D G - S L V O L R I H W M K D S - - - - -	- - - - -	- - - - -	- - - - -	ScCdc73
43	N T P I L I D E P T K F I K L E N D S H S L R S Y A W L L R D T - - - - -	- - - - -	- - - - -	- - - - -	SpCdc73
127	A A D E V I L A E A K K P R I E D E E V R L D K E R R L E H K E G - I V	- - - - -	- - - - -	- - - - -	HsCdc73
126	P E G Q S Q Q M D Q D S Q K Q S D E T S S T Q L I G S L Q K E Q E Q I	- - - - -	- - - - -	- - - - -	DdCdc73
109	R K R E S T N D D D K K R L K P F D K P E K E E K E Q E S K L E F	- - - - -	- - - - -	- - - - -	NgCdc73
441	T N G Q E K D I I N D E Y Y F N D E V D K K L E L S S F E N Y V D I N	- - - - -	- - - - -	- - - - -	PfCdc73
35	F D T K L E L K T P T A W K K N T G Y Y L G D L F N Q K V Q Q N - - -	- - - - -	- - - - -	- - - - -	TtCdc73
40	S E L R R L P K H A P T A Y H S K K L D K S D L L H C F K H A D - - -	- - - - -	- - - - -	- - - - -	PiCdc73
1	- - - - -	- - - - -	- - - - -	- - - - -	EhCdc73
30	V D G E K D L E S E A N Y T P K K G S K L S R T Y L S L T D R - - -	- - - - -	- - - - -	- - - - -	TvCdc73
128	D D M M S D E E A K E R E Q Q K E A S S R E E K N R R R S G S D S R H N K D K	- - - - -	- - - - -	- - - - -	TpCdc73

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	Consensus #1									
	Majority									
	490	500	510	520						
53	- - - - -	A F E A E T A D L F Q I Q T E E G H A A P R Y - - -	TbCdc73							
80	- - - - -	S F S D Y X S Q C Q X X A I X N V X F X D R X X L I X Y L X G K - - -	ScCdc73							
79	- - - - -	S A A Y P Q C E G I G I N L F E R T D L I W L E G S - - -	SpCdc73							
166	Q T E Q I R S S A A S V E K I A I K A K I M A K K R S T I K T D L D D D I	HsCdc73								
166	D Q Q Q Q Q Q O S S Q Q Q Q D G Q Q Q P Q Q E D D N I D Q - - -	DdCdc73								
149	I K F L S N S D D S S V E T E P L P Y L E D R P Q R Y K E I	NgCdc73								
481	- E I Y K D S P E E K D Y I N N N S N N M D I P L L I R R K R	PfCdc73								
72	- - - - - M S E K H Y P Q R Q S A E I D K D E D E S Y L G K I D	TtCdc73								
76	- - - - - L S F S D Y V L K C R E D K A M V T D K K E L A F L K G D - - -	PiCdc73								
1	- - - - -	EhCdc73								
65	- - - - - F V D Y K Q C Q A K I F M F D Y K A T Y L H K S D	TvCdc73								
168	D R R R S K S K P K S D K K L A K K S P T N E Q L A N L I V D	TpCdc73								
	530	540	550	560						
83	- - - - - T A G T L R N V G D G E P - - - - -	TbCdc73								
112	- - - - - E S S Q Y L K P G Q K G E S D K V D - - - - -	ScCdc73								
111	- - - - - D S E H I I G E E K P K P E E S - - - - -	SpCdc73								
206	T A L K - - R S F D A D V D I V S E R V - - - - -	HsCdc73								
204	- - - - - Q D M I Q D E F K I K I D P - - - - -	DdCdc73								
189	P F S T R I Q T Q E R V D K K G E I K Q L S Y - - - - -	NgCdc73								
520	K Y H N L S F D D K Y S L Q Y L K F I H D K L I F N N M I S K Y I Y A I S	PfCdc73								
107	- - - - - S D K D Q K Q L L S R K S K P - - - - -	TtCdc73								
109	- - - - - I D S S P Q I L S G K P A A S G D K D R - - - - -	PiCdc73								
1	- - - - - M T S T T K E Q Y E Q A - - - - -	EhCdc73								
98	- - - - - V L E G I T N K E E E A Q P A E E Q Q - - - - -	TvCdc73								
208	K R N K S E K E A S G G G A A A D D S V K - - - - -	TpCdc73								
	570	580	590	600						
100	- - - - -	. . . . .	Consensus #1							
134	- - - - -	X - - - - -	Majority							
128	- - - - -									
232	- - - - -									
226	- - - - -									
217	- - - - -									
560	D K H F Y E R N K K T I N F V H N F L Y Q Y N V S L N D I K E Y Y N I I L T Q K	PfCdc73								
129	- - - - -									
132	- - - - -									
16	- - - - -									
120	- - - - -									
236	- - - - -									

					Consensus #1
					Majority
	610	620	630	640	
100	- - - - -	L P R H E G P Y E A Y R H A A N G E	- - - - -	- - - - -	TbCdc73
136	K T L A -	E L S T V K T S A S L E N D S E Y S P	- - - - -	- - - - -	ScCdc73
128	- - - - -	T D A T S M D V D L H K K S E	- - - - -	- - - - -	SpCdc73
234	R T T I L S T G K N F K N I F A I L Q S V K E E	- - - - -	- - - - -	- - - - -	HsCdc73
228	H D R E L A Q Q Q K D K F A E K I D T K K I K T E	S P L T V D T Y I E	- - - - -	- - - - -	DdCdc73
219	S Y L E N I K R C K T H F Q H K K D E K Q K R I E R E	- - - - -	- - - - -	- - - - -	NgCdc73
600	K C L A P K I S Y E N E H K S D N E D D N D D	N M F E I C K D Q N V D	PfCdc73		
131	S A L E G L T K K I K T D G E A K T V E M Q Q E E Y L N	- - - - -	- - - - -	- - - - -	TtCdc73
134	A A K K T R E P E D E A R A P K K R K L Q E K E N H R	- - - - -	- - - - -	- - - - -	PiCdc73
16	- - - - - K M K I A T L E Q I T P S E E I K E K	- - - - -	- - - - -	- - - - -	EhCdc73
122	A P V V E Q V P Q P V V E V R P E P V V V V E S S Q T N	- - - - -	- - - - -	- - - - -	TvCdc73
238	D G T P A D I T P A T T P L F D G E H D A E S E K E R E L L L S W L S P A G F	TpCdc73			
	. f . . f b . . f p . . p b . p f f b p	- - - - -	- - - - -	- - - - -	Consensus #1
	X V A X E F K N E R T X X N R N S A L K G	- - - - -	- - - - -	- - - - -	Majority
	650	660	670	680	
122	- - - - - G G G G N N T S S A S A A A A G	- - - - -	- - - - -	- - - - -	TbCdc73
163	- - - - - V V V E T K H E R I L V D I N S A L G	- - - - -	- - - - -	- - - - -	ScCdc73
144	- - - - - E V N W L F E N T R T V S N I N S L G	- - - - -	- - - - -	- - - - -	SpCdc73
262	- - - - - G R A P E Q P A A A P V D P T L K Q P I P A A Y N R	- - - - -	- - - - -	- - - - -	HsCdc73
266	- - - - - Q V K T K R K N M T D D N R S S K A D I E V T K A I N N R	- - - - -	- - - - -	- - - - -	DdCdc73
247	- - - - - Q A K Q O G Y S O E N A K L N L K G T F N E R N L W N S E	- - - - -	- - - - -	- - - - -	NgCdc73
640	L N N D N Y V D D V N R N K R Y N K K K K Y L Q I N S C D L N N S	PfCdc73			
162	- - - - - A S W I K T E K P L T R T R I L	- - - - -	- - - - -	- - - - -	TtCdc73
162	- - - - - H K H G E G K S E L K Q D E Q I K R	- - - - -	- - - - -	- - - - -	PiCdc73
37	- - - - - K K M F A R E K R T R L K G E Y D	- - - - -	- - - - -	- - - - -	EhCdc73
151	- - - - - K H D D F Q K R E K G E Y E Y D	- - - - -	- - - - -	- - - - -	TvCdc73
278	E V N S P E V A A A E A D R D A T R R I A L E I P V G D S A S I L R A G A G	TpCdc73			
	. . . . .	X X P	. . . . .	. . . . .	Consensus #1
	690	700	710	720	Majority
140	- - - - -	- - - - -	- - - - -	- - - - -	TbCdc73
184	- - - - -	- - - - - A K P	- - - - -	- - - - -	ScCdc73
165	- - - - -	- - - - - I K P	- - - - -	- - - - -	SpCdc73
293	- - - - -	Y D Q E R F K G K E E T E G	- - - - -	- - - - -	HsCdc73
298	- - - - -	E K K S S D K V S V L Q S S	- - - - -	- - - - -	DdCdc73
279	- - - - -	F G N E D I M N E I Q I D T	- - - - -	- - - - -	NgCdc73
680	I Y H T L Q L D N N I K D N N F E L I K S V S V K E V N V K D V H D N L G N N S	PfCdc73			
183	- - - - -	- - - - - K F N S N	- - - - -	- - - - -	TtCdc73
183	- - - - -	I T D R E Y V N R T R T T V	- - - - -	- - - - -	PiCdc73
57	- - - - -	- - - - -	- - - - -	- - - - -	EhCdc73
172	- - - - -	- - - - - I L R P	- - - - -	- - - - -	TvCdc73
318	G K G S A E A N S - - - - A A A N A S G G G G G T T P G S V K K R D F A R V	TpCdc73			

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	f a f . . f . . . f f . f f p . p p p . p b . . p . . . - - - . . p p .	Consensus #1		
	I D F X L L X K D A V X E L L X S X N X K S X X K X - - - - -	Majority		
	730	740	750	760
140	- - - - - S A G A N N I L R S I I G I I I N - - - - - P [■] F	TbCdc73		
187	I N F G Y L I K D A E K L S I K S L E G S K L P - - - - - P [■] H	ScCdc73		
168	I D F I S L R K D - V D Y H A K A T A S - - - - - A H	SpCdc73		
307	K D T G T Y H G T L K V E A S A R K Q T P A - - - - - A Q P V P	HsCdc73		
312	S F A N L T N Y K K F K E D E E E K K K R S S S S - - - - - S S S S L	DdCdc73		
293	T G S M M I K S D P V E L L S N T S A P P T T N N - - - - - T F S S N	NgCdc73		
720	D F S R H N Y F K E E L L K N I K V F I I G I K K N I I V D D Q S K M	PfCdc73		
188	I N F K H Y I K Q L D E G K T N P L E I K - - - - - I N	TtCdc73		
197	D H K T K F E N V K T L E L V N A E E K I E K A S - - - - - K A S A L	PiCdc73		
57	N D N L L R L K E E E G Y L V D K - - - - - E [■] K	EhCdc73		
176	I D S V I L L N E K D S E H N I V N Y Q Q N R D - - - - - N Q D S	TvCdc73		
352	Y Q E V V Q A E E K K R A G S R P A P P G G - - - - - P S S S S	TpCdc73		
 . f . p p . . . . p . - - - - . . . . b . f f f f f f . p - - - - - Consensus #1				
	X D X T X K K S K P X - - - - - K X - X T P I I L V P X X - - - - -	Majority		
	770	780	790	800
161	M [■] P E H S Q R N R - - - - - K L N F V P [■] I L [■] S P [■] - - - - -	TbCdc73		
218	K G A H R I S K T [■] G S - - - - S G G P R [■] D P I I L [■] P S A - - - - -	ScCdc73		
192	A D E E E R P A K K R - - - - - N - - - - D P I I L [■] S P [■] - - - - -	SpCdc73		
342	R [■] V [■] A R P P P - - - - - Q K K G S T P I I [■] S P A A - - - - -	HsCdc73		
347	L S S P [■] V K S S P G S P S I I P H L K N T P I I [■] V P S - - - - -	DdCdc73		
328	I D E T I K K S V P T S - - - - - K Q V K K P L P I I L [■] P P - - - - -	NgCdc73		
760	D D K K K I K K K N K W I D E I H L V Y K R P I I I E K Q I I T N S D N	PfCdc73		
217	Y C L F K D L R D K G - - - - - L K P I I [■] V P T M - - - - -	TtCdc73		
232	L T T V R K E Q L P L H R L V K E K I L G T P I I [■] V P A - - - - -	PiCdc73		
83	T K T K T H D D - - - - - - - - - Y Y I [■] P S V - - - - -	EhCdc73		
211	S S S L I D A N Q - - - - - R I F [■] K P I I L V P K - - - - -	TvCdc73		
387	K S V R A G S G A A A A V G A S V A K I D G N P I I [■] V P N A - - - - -	TpCdc73		
 - - - - - f p p f f p f f p f b . f f - . a p f f f . p . a b . . . f p . Consensus #1				
	- - - - - R S S L L T X X N I K D F L - X E G K X V P P D E K K X N X D X	Majority		
	810	820	830	840
185	- - - - - S S [■] L [■] N I K D F L - E [■] G [■] Y V E P S S [■] F L N [■] V T	TbCdc73		
246	- - - - - S S [■] L T [■] N I K Q F L - L E [■] K Y V N P R N L P S V [■] G	ScCdc73		
214	- - - - - S S L L T H N I K K F L - E E G [■] V P P A E A A H A [■] G	SpCdc73		
368	- - - - - T S S L T N K D [■] L - Q [■] L K V P D E K K K Q G [■] Q	HsCdc73		
379	- - - - - A T S S Y N L E F L - Q H [■] R P L E K K Q E [■] A S	DdCdc73		
356	- - - - - R S S L L T Y N I K D F L - Q R G V S D E K K K N D P	NgCdc73		
800	K S I I D N T - R K P I I K N N K S F L L H N K T T N D I L Q N D K	PfCdc73		
239	- - - - - G R I G N N N K K F L - A E G K Y E D P E N K D S D N E	TtCdc73		
264	- - - - - S D L T N K D F L - E [■] G Y V S M Q K K S E G R	PiCdc73		
102	- - - - - S A P L D N I Q Q F - K Q K Y K S L C D T V N - - -	EhCdc73		
235	- - - - - S S S L I N T N I K Q F L - V E [■] S E P D E G G E N - - -	TvCdc73		
419	- - - - - S C E T N G F F L G K E A T P R D Q A V K R [■] D A	TpCdc73		



b b f a . . f f . . f f . . f a . f f . . b . p . . . . . . . . .	R H L D X X V A X X F W X X L E X F M X X X K X - - - - - - - -	Consensus #1 Majority	
	970	980	990
327 S H T H I R Q A S A F W E H L Y L F D T P L F K L F T V P P D Q P		TbCdc73	
369 R F K D V E V E R Y F W H S L E K E I S G R		ScCdc73	
342 R H T D R E V S Q W D K L E R M E N W P L W N G R R		SpCdc73	
504 R H L D R P V L R F W E T L R Y M V K K H L R F		HsCdc73	
505 R H L D H T Q V E F W N A D F T N A K Y L N H		DdCdc73	
485 R H T D S T V A R K F W S S L G M E		NgCdc73	
941 R N D D H L Q K F W K K E H F L Q R D S N F Y I P K K N N		PfCdc73	
369 R H L D F P Y E Q F W Q E L E N F M I Q P R K Q K		TtCdc73	
387 R H L D K V A K E F W R Y L F A F K H L		PiCdc73	
213 - - - - - Y K Q F		EhCdc73	
360 S F L Q S Q V A N K W Q E E N N Y R K I Y H K Q		TvCdc73	
550 R G L D N I C A S F W N G L E F M A V K G Y S R M		TpCdc73	

Consensus 'Consensus #1': When 50% (6) match the residue group of the Consensus show the group label of the Consensus, otherwise show '.'. Residue Groupings of Consensus #1 are: a=(DE), b=(HKR), f=(AFILMPVW), p=(CGNQSTY).

Decoration 'Decoration #1': Shade (with black at 50% fill) residues that match the consensus named 'Consensus #1' exactly.

Decoration 'Decoration #2': Shade (with solid black) residues that match the Consensus exactly.