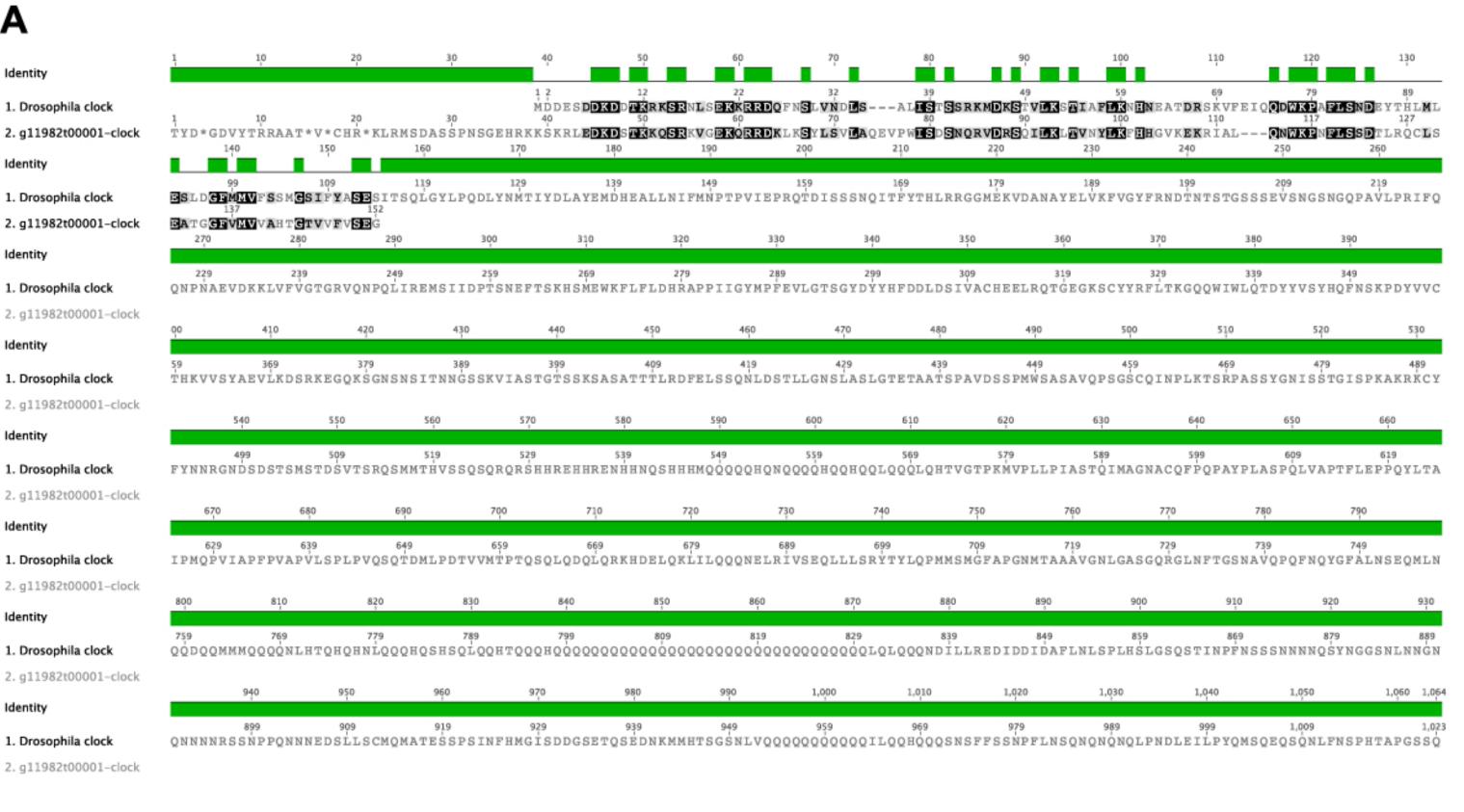
Supplemental Figure 3. Amino acid alignments of scallop circadian clock genes to known homologs. Circadian clock gene sequences from the *Placopecten magellanicus* adult eye transcriptome were translated and aligned to known homologs from *Drosophila*, mouse, or *Crassostrea gigas*. Alignments were completed and exported from Geneious v. 5.6 (www.geneious.com). The graph above the alignment represents mean pairwise identity of each residue pair in each column, with green bars representing identical residues and missing bars highlighting areas where the sequence is different. End gaps in the alignments have solid green bars. Amino acids are shaded based on similarity, with black representing identical residues between the two sequences, grey representing similar residues, and white representing dissimilar residues. A = clock, B = cryptochrome, C = cycle, D = doubletime, E = period, F = timeless.

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В

Identity

- Drosophila cryptochrome
- 2. g16684t00001-cryptochrome

Identity

- 1. Drosophila cryptochrome
- 2. g16684t00001-cryptochrome

Identity

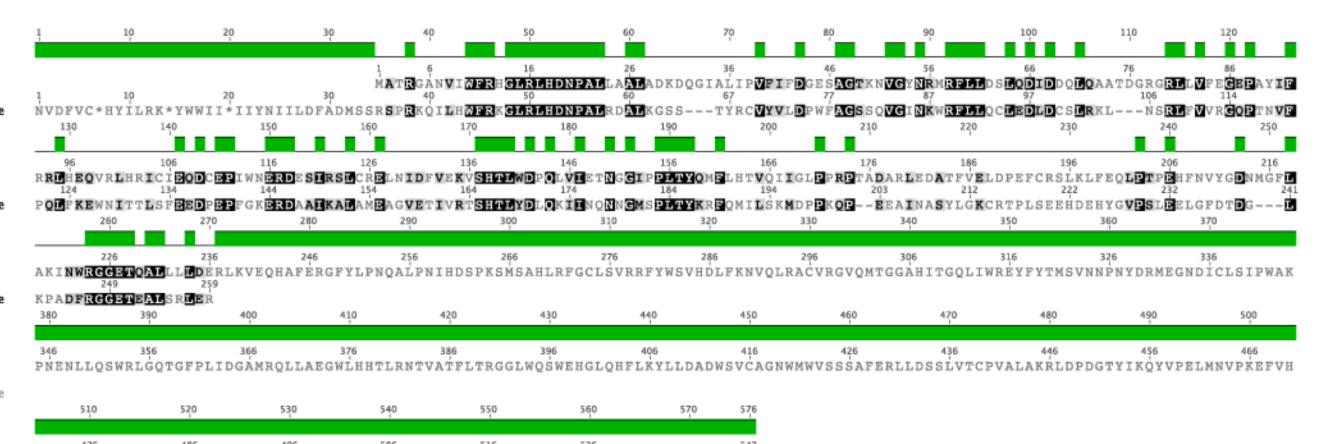
- 1. Drosophila cryptochrome
- 2. g16684t00001-cryptochrome

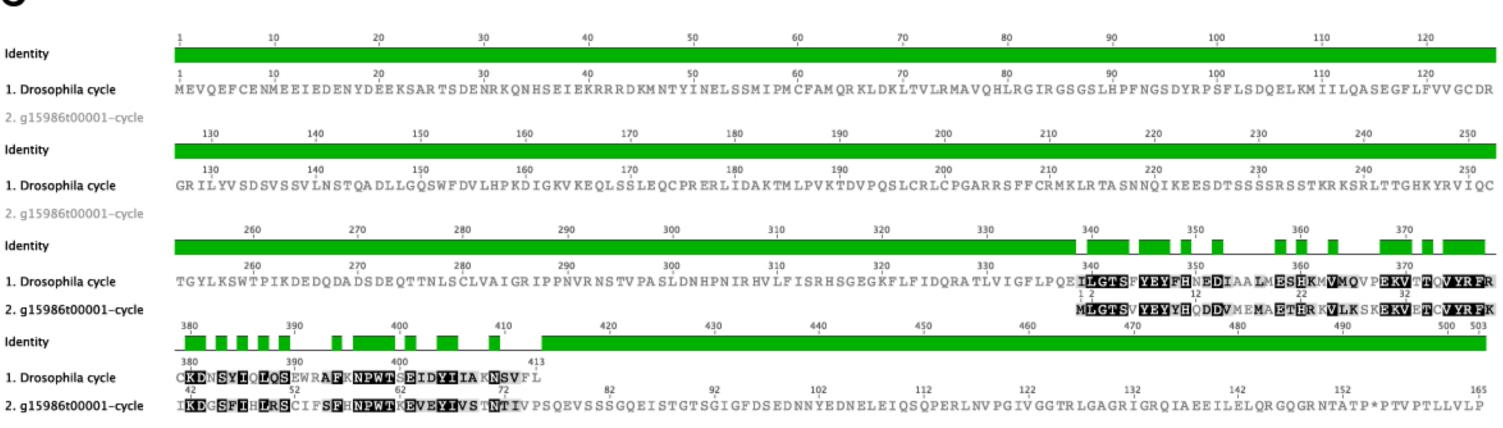
Identity

- 1. Drosophila cryptochrome
- 2. g16684t00001-cryptochrome

Identity

- 1. Drosophila cryptochrome
- 2. g16684t00001-cryptochrome





D

Identity

- 1. Drosophila discs overgrown, doubletime
- 2. g02789t00002-discs overgrown/doubletime

Identity

- 1. Drosophila discs overgrown, doubletime
- 2. g02789t00002-discs overgrown/doubletime

Identity

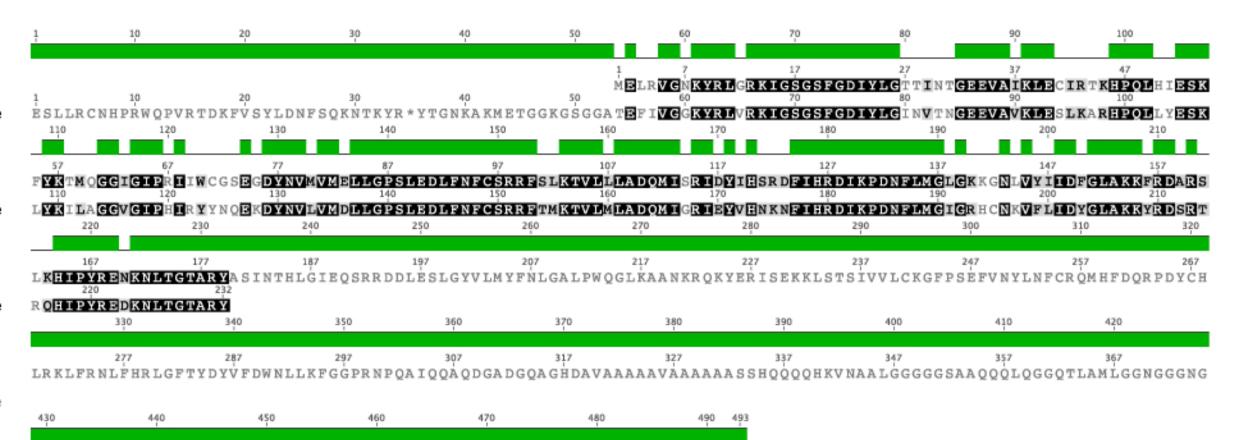
- 1. Drosophila discs overgrown, doubletime
- 2. g02789t00002-discs overgrown/doubletime

Identity

- 1. Drosophila discs overgrown, doubletime
- 2. g02789t00002-discs overgrown/doubletime

Identity

- 1. Drosophila discs overgrown, doubletime
- 2. g02789t00002-discs overgrown/doubletime



	1 10	20	30	40	En	60	70	80	90	100	110	120
Identity	1 10	20	30	40	50	60	70	80	90	100	110	120
1. Crassostrea gigas period	1 10	20	30	40	50	60	70	80	90	MKGIVDE	13 R■GEGWTGGW 109	RGGLTR In 119
2. g16999t00001-period	IPNSSRG*TRFT	F*ATGSVLYTEL	THSSVTAASEFI	KMDIÏQIPDCE	QKCLFCKV*V	/VSGHSRRD#	A*GSDP*NVE	SHNVTDSY*AY	STVVPF*SLV 210	RHVVVAAA-H	KE*L*SLFII	- 1
Identity		470	40		40	70		06			126	
1. Crassostrea gigas period	CF GSFMIIH GVYV	/ KF GLO DF N	-LK MQ D SSSF	SMSLSGSDTFE	DOPSTSGCS	79 SDM THKEK 178	RK ARVK Q Y	LRQLKAMVPPS	106 SGK KG K MGTT 208	SALOHVIGSI	126 QKEQEEKDKS	136 QLASGDA 238
2. g16999t00001-period	LK GN-LIVN A TM <i>l</i>	A GEPDS NYGSYC	LSTVOSSSSSSS 270 28				ALRKCRKEOV	MRYLKELKGLV 320				VGCQHIQ 360
Identity							202					
1. Crassostrea gigas period	146 LVEELDNS E FDKI 248	IŞ6 E Y QLDS QV LK N E:		76 18 FA VIKVS E 78 28		r d –s ni nrsi 8					242 WSRQIRKKFF	252 FRIRNYK
2. g16999t00001-period	TTANTRLPEPISI	M¶TT IQ YQYH YQ 390		YQYQI LE Y M CV 410	SVCMVQTLII	PDIVNLTFG(2KĽ 440	450	460	470	480	
Identity		272 282		302	312	322	332		352	362	372	
1. Crassostrea gigas period	GLQHSGFSLVKPI				QKGRKCIFLI		NVENVQLDKQ		YSYMHPNAIP		IGMSIFDFYHK	DDLETLC
2. g16999t00001-period	490 500	510	520	530	540	550	560	570	580	590	600	610
Identity	382 392		412	422	432	442	452	462	472	482	492	502
1. Crassostrea gigas period	NIYKRIVVSKGT	TFKSKPIRLRTR	NGDWLTVETEWS	SSFANPWSHRI				PWINDHHOKLO				RTSQETE
2. g16999t00001-period	620	630	640	650	660	670	680	690	700	710	720	730
Identity	512	522	532	542	552	562	572	582	592	602	612	622
1. Crassostrea gigas period	KVQKKSKQQTEK						OKTYSSSEK	KTTSEEETDTP	CTISTTTAEA	SDSEFEVDIS	V P K P P S F G S S	TKVLLSE
2. g16999t00001-period	740	750	760	770	780	790	800	810	820	830	840	850
Identity	632	642	652	662	672	682	692	702	712	722	732	742
Crassostrea gigas period	QEQREDIÀGSPAI	HQIEDNTEEIST	SPGÁVAPTSMLI	PPPCV ENM DT 1	RLLTLTQDAI	LLRHTKQQEI	OLFVAHAKQD:	RTPIILKSKEG	GML QER KRSH	ISPDHEKGFYR	RPTKASRNDSN	ILÍPPFP
2. g16999t00001-period	860	870	880 89	90 90	0 91	10	920	930 9	40	950	960 5	970
Identity	752	762	772 78	§2 79	2 80	92	812	822	132	842	852	862
Crassostrea gigas period	LPNIGÝPVQYRQ	GNA PRGGNV NGG	QQIVSQSRLPV	SSTKLSQSNVE	SRATPIQSNV	/IWPYYPQT#	A SGA SFYPQV	MGGFYHDPNGI	PATLSLNVTS	TIPPTANTTG	GT TMS GASR HN	LKVLQGR
2. g16999t00001-period	980	990 1,00	0 1,010	1,020	1,030	1,040	1,05	0 1,060	1,070	1,080	1,090	
Identity	872	882 892	902	912	922	932	942	952	962	972	982	
Crassostrea gigas period g16999t00001-period	CQGPFQLPTIST	rfssssdmsish	TDSGSSYLYLLI	DSDDQNSSGQE	LETKSNKVT	RSNKRQTEPI	PWLETICWTK	KLAMNYQLPKR	KKNRVLKSDE	AFIAKSKPSN	ITLLQQMMDLQ	SEIDLNQ
Identity	1,100 1,110	1,120	1,130	1,140	1,150	1,160	1,170	1,180	1,190	1,200	1,2,10	1,220
	992 1,002		1,022	1,032	1,042	1,052	1,062	1,072	1,082	1,092	1,102	1,112
Crassostrea gigas period g16999t00001-period	GÁPAVDEENDYĹI	. ILDUEEEDQAS	DCDSRFIALQD.	INEALSQUENT	ISSGIGCIAQ(QAQPHCSPSI	DENPSSIKS	PUPPENDAGENG	IDISLGPEEE	PRCEGSQEQE	MRMDCRISIE	MOPSIET
Identity	1,230	1,240	1,250	1,260	1,270	1,280	1,290	1,300	1,310	1,320	1,330	1,340
	1,122 QSQLETQEAM DN (1,132 DGDT. DTT. SM D T E	1,142 SNCSKSSSDT. TI	1,152 P S D E P S S C E A C	1,162	1,172 S K D S V D E S I	1,182 7 D S S F S D V D V	1,192 SNSTKKDNVHT.	1,202 V FV T DD T S FV	1,212 DHGKTPFWCR	1,222 N C RM T PV V RM	1,232 EYTVKSK
Crassostrea gigas period g16999t00001-period	ASATE LA EVE DU	A AL DOLDSHOTE	aucavaganti.	COLKODGEAC	MAGGAALGGE	1640 464766	ANAGGGGG	PWPIVVDNIUT	TIATELTULA	DIGATETWCR	MCDHIFVVDM	PIIAVOV
Identity	1,350	1,360	1,370	1,380	1,390	1,400	1,410	1,420	1,430	1,440	1,450 1,453	
1. Crassostrea gigas period	1,242 DCKRHLDDDMRSI	1,252 LKDVVOPDLVKT	1,262 OMGYMLEELNLS	1,272 SKKLEEKIDSG	1,282 TKETEGNRGI	1,292 LLKKSASHSF	1,302 KPKSEHFLTE	1,312 DV F DGM FV TM L	1,322 GEDIVPFARE	1,332 EES P DV E DV S H	1,345 IR L EKV D	
2. g16999t00001-period												

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