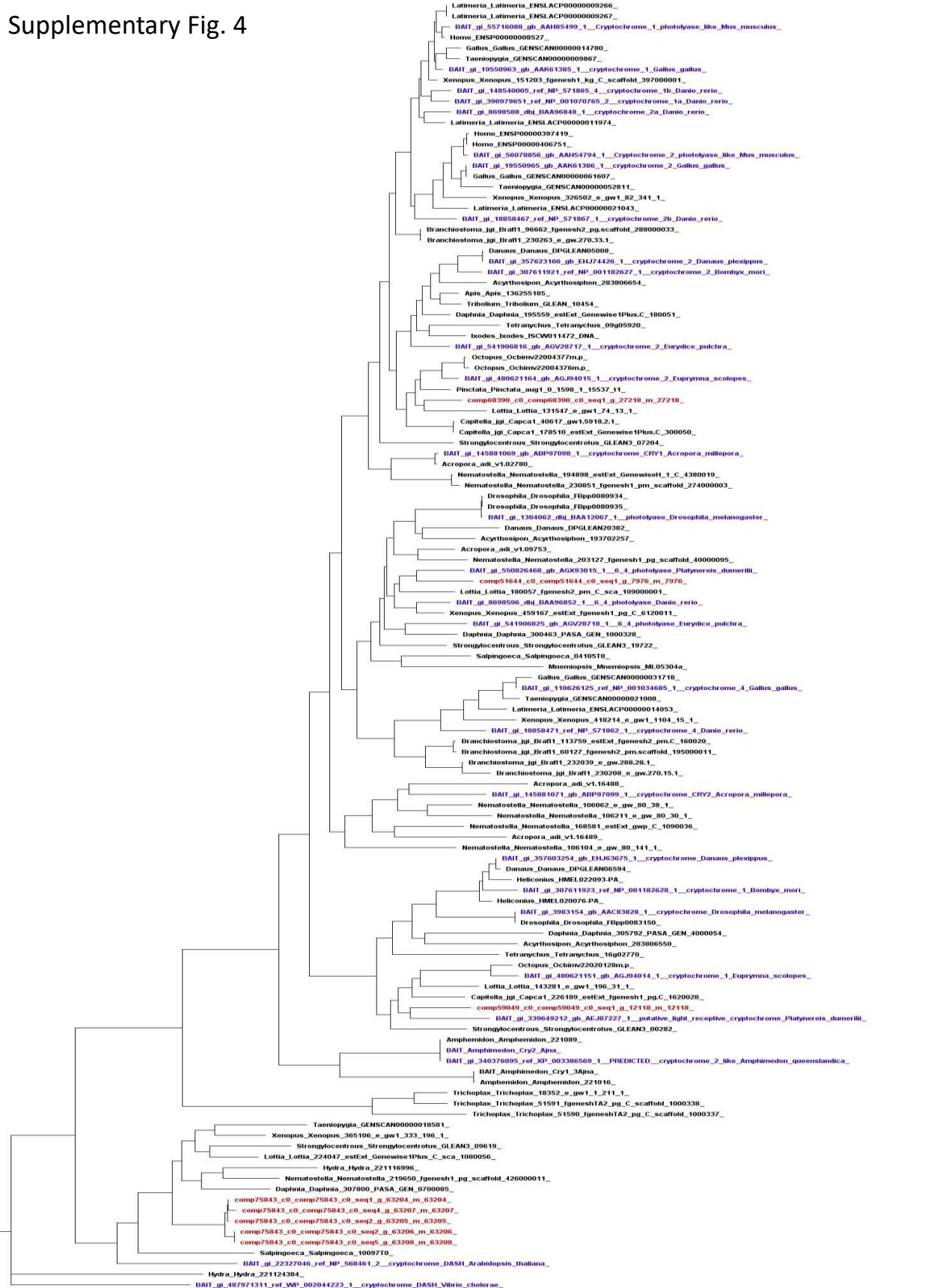
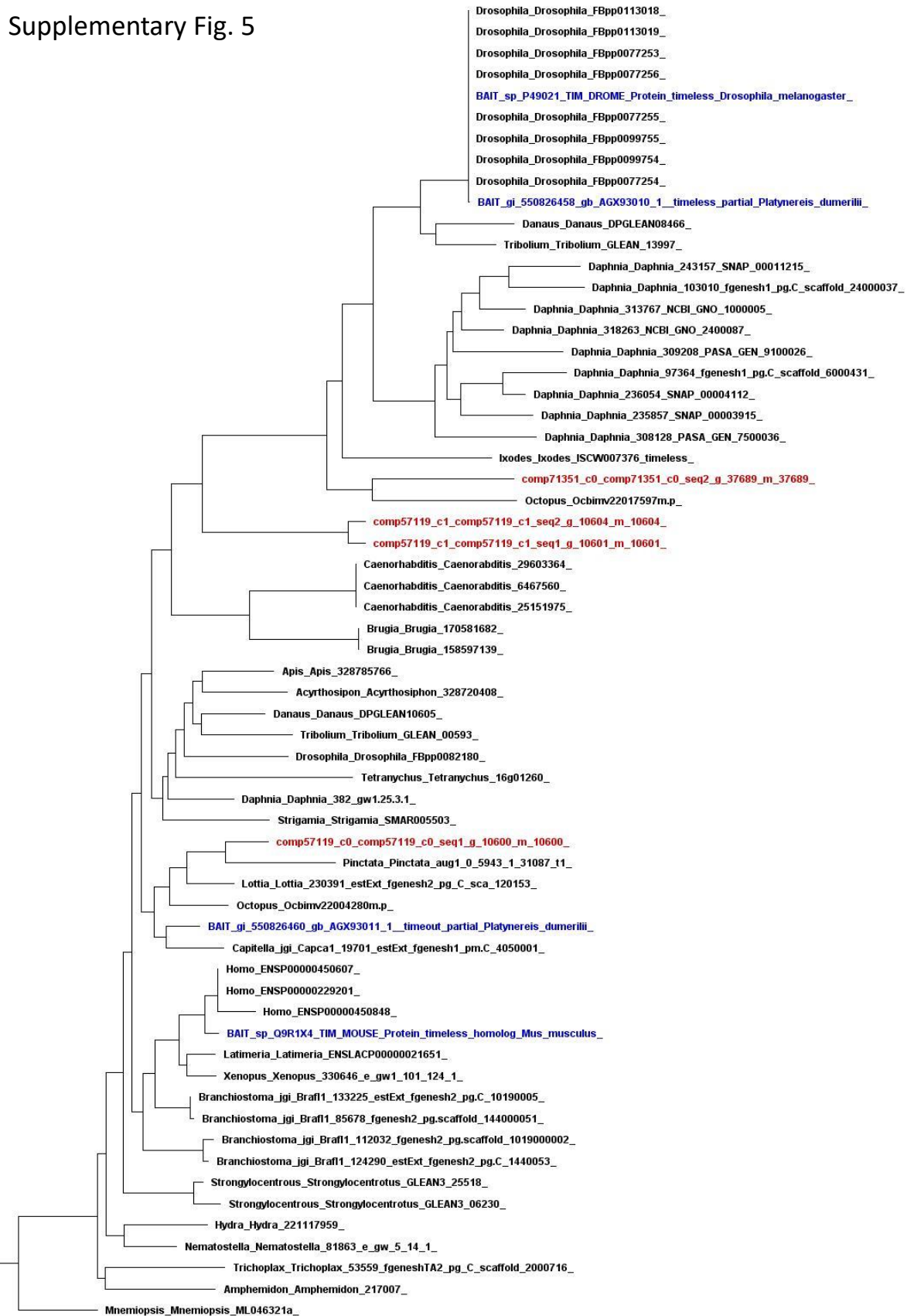


Supplementary Fig. 4



Supplementary Fig. 5



Supplementary Fig. 7

```
Melibe_PERIOD      SSEMATVLH-----SKERK-----KEKAKEFMKK
Hermisenda_PERIOD SSEMASVTH-----SKERK-----KEKAKEFMKK
Tritonia_PERIOD    SSEMASVMR-----SKERK-----KEKAKEFMKK
Bulla_PERIOD       SSEMASAMQ-----SKEKK-----KERAKEFMKK
Drosophila_PERIOD  VEQQICRELQDQQHGKEDHSEPPQAIEQLQQEEEEEDQSGSESEADRVEGVAKSEAAQSFPI-
                   .:                .:..:                .* *:*

Melibe_PERIOD      LKSMPLPIKERMVKMDTLSTLEQVNNMRRLSEGQ-RKEEFKTPQAY-----FETY
Hermisenda_PERIOD LKSMPLPKERKVKMDTLSTLEQVNNMKRLSESQ-RRDSEFKSPHMY-----SGAY
Tritonia_PERIOD    LKSMPLVKERMIKMDTLSTLEQVNNMKRLSEGQ-RKEEFKTPLVY-----TGTF
Bulla_PERIOD       LKSVLPMKERTGKMDTLSTLEQLVNSMKQLNEEK-KVEHEFKTPPPH-----SGSF
Drosophila_PERIOD  -PSPLSVTIVPPSMGGCGGV---GHAAGLDSGLAKFDKWEAGPGKLESMTGVGAAAAG
                   * * :.      .* . :      . *.. : :   : : : : :

Melibe_PERIOD      HSDADNLLQSDMYVSVSMKNHIVLAASQALMLHLGYPSDWWKNRLLLDLFMSKQDVNTVN
Hermisenda_PERIOD HSLDADKLQSDMYISVSLKNHVQVQTASSLMLTHLGYPTDWWKGRLLRDLFLSKKDINTVN
Tritonia_PERIOD    HSMADAKLLQSDMFI SVSLKNHIVQTASQALMTQLGYPADWWKGRLLRDLFLSKNDANTVN
Bulla_PERIOD       HSSDGEKLSQSEMYITMTLKNHVQVQTASPLMEHLGYPVDWWKGRLLKDF INKMDMNTLN
Drosophila_PERIOD  TGQRGERVKEDSFCCVISMHGDGIVLYTTPSITDVLGYPRDMWLGRSFDIVHLKDRATFA
                   . .:..: :..: : : : : : * : : : * * * * * . * : * : * : *

Melibe_PERIOD      RCLAQYTKDEGEMSKASGESSTSVSSTVTSKGEGSKYFFARIRRFRKLTGDG-F-SFHNVV
Hermisenda_PERIOD GCLAHFFKKEEQEPRTLAGESSMAVT--STSNSQGSRYFFARIRRFRKLSEG-F-SIQNVV
Tritonia_PERIOD    GCLAQYSKEEHEPSKVAGEDNTSVTSSLSNPKDGTCKFFARIRRFRKLTES-F-SIQNVV
Bulla_PERIOD       SCIAHYSTDEAADNFE-----SSNGTRVTKEGSKYFYARIRRFRKLGGG-F-SIQNVV
Drosophila_PERIOD  SQITTGIP I-----AESRGSVPKDAKSTFCVMLRRYRGLKSGGFGVIGRPV
                   : :                . . . . * . : * : * * * * * . * : . *

Melibe_PERIOD      AYC PFVMTVTASTPHQFKVKDK-----TATATKMRKCLVLHCRPVTSAYGADGSL--PAE
Hermisenda_PERIOD SYSPFVMTVTMARTSEHQTDSDKDGLGSSSDGRIKASLVVYCHPLTSA YTDATTL--PFE
Tritonia_PERIOD    SYSPFVMTVKTPKPSDATAGED-----DKDASKPRKSLFIYCRPVTSAYTDQESL--PTD
Bulla_PERIOD       SFCPFMMMISSKTVELSES-----EEDSGRVRRLSVLYCKPLNSAYGNGGIL--PDK
Drosophila_PERIOD  SYEPFRLGLTFREAPEEARPDN-----YMVSNGTNMLLVICATPIKSSYKVPDEILSOKS
                   : : * * : : . * . : . * : * * * * * : : .

Melibe_PERIOD      RQFSLRHSSSCKYTNVDPSVIPLLGHLPQDFNGKSI FDLYHPEDYTKLLDIHKKI---IQ
Hermisenda_PERIOD RQFSLRHSPSCKYTDVEPSAIALLGHLQDFNGKSI FDLYHPDDYKLLDIHRRV---VQ
Tritonia_PERIOD    RHFSVRHCSSCKYTDVEPSAIPLLGHLPQDFNGRSI FDFYHPDDYQKLLDIHKKI---IQ
Bulla_PERIOD       RNFSLRHSLFCNYTYAHPNAVRLGLFLPQDFSGMSI FDLYHPDDFQQLLDIHIRI---ML
Drosophila_PERIOD  PKFAIRHTATGII SHVDSAAVSALGYLPQDLIGRSIMDFYHHEDLSVMKETYETVMKKGQ
                   : * : * * : : . . . : * * . * * * * : * * * * * * * : : : :

Melibe_PERIOD      SMGQPFKTD SIRLKTNRNGCYIELATEWSSFINPWSMRLEFIIGQHTVIRGSRPDVDFEDV
Hermisenda_PERIOD CKGKPFKTD RIRLKTNRNCFIELETEWSSFTNPWTTTRLEFIIGQHTVVKGNRHRDVFEDI
Tritonia_PERIOD    SMGQPFKTD SIRLKTNRNGCYVELETEWSSFINPWSMKLEFIIGQHTVIKGPSLCDVFTAR
Bulla_PERIOD       SMGQPFKSGSIRLKTNRNGCYVEVETEWSSFMNPWSMRLEFIIGQHTVIKGNPDLFEDL
Drosophila_PERIOD  TAGASFC SKPYRFLIQNGCYVLETEWTSFVNPWSRKLEFVVGHHRVFGPKQCNVFEAA
                   * * : * : * . * : : : * * * * * * * : * * * * * * * : * *
```

Supplementary Fig. 8

Melibe_CRY2 --MKEDINDNKNQSKKQVLFWFRKGLRLHDNPALYSAIDG---AVTYRCVYILDPFAGA
Hermissenda_CRY2 MKESLGQDRLGHKNKKH VLFWFRKGLRLHDNPALYSALVEGGVASTYRCVYILDPFAGA
Tritonia_CRY2 MKEHNNITEDKIPQKKH VLFWFRKGLRLHDNPALFNAIEG---ALTYRCVYILDPFAGA
Crassostrea_CRY2 -----MSKSSKRKH VVHFRKGLRLHDNPALREALKG---SSSYRCVYILDPFAGS
.:*:*:.*****:*.*: : :*****:

Melibe_CRY2 SQVGINKWRFLLESLEDLNSLRKLNLSRFLVARGQPADVLPRLFQEWRIITLAFEEDESEF
Hermissenda_CRY2 SQVGINKWRFLLESLEDLNSLRKLNNSRFLVARGQPADILPRLFQEWGITLAFEEDESEF
Tritonia_CRY2 SQVGINKWRFLLESLEDLSSLRKLNLSRFLVARGQPADVLPRLFQEWGITLAFEEDESEF
Crassostrea_CRY2 SQVGINKWRFLQLCEDLDTSLRKLNLSRFLVLRGQPTDLFPKIFKEWNITLSEFEDEPEF
*****:.*****.*****.**** *:*:*:*:* *:*:*:* *

Melibe_CRY2 YGKERDSAISAMAREFNIQVISKSSHTLYNPKTVIAANGNSPPLTYKRFQSI LSTLDPPE
Hermissenda_CRY2 FGKERDVALSTMAREFHIQVISKSSHTLYNPKTVIAANGNSPPLTYKRFQSI LSSLDPPA
Tritonia_CRY2 YGKERDAAISTMAREFHIQVISKSSHTLYNPKTVIAANGNSPPLTYKRFQSI LSTLDPPE
Crassostrea_CRY2 FGKERDGAIQMLAKEAGVEVIVKTSHTLYDLQKI AMNGGSPPLTYKRFQSVLAKMEAPS
:***** *:. ::* * ::* * :*****: :.* * *..*****:.*:.* *

Melibe_CRY2 QPCDTVGANVVKKSVPVTDHDDRFVPTLDELGFDTDSLGPSPKFGGSEALARLHRH
Hermissenda_CRY2 QPCETVSGQVVKDSVTITSDHDDRFVPTLDELGFDTDLGPAKFGGSEALARLYRH
Tritonia_CRY2 QPYETVSSHVVKKSATPVADHDDRFVPTLDELGFDTDSLGPSPKFGGSEALARLHRH
Crassostrea_CRY2 EPEETINSGFLVKTKTPIAEDHDDKYGVPTLEELGFDTTEGLGPAVFHGGAEALTRLERH
:* :*:. .: .: * :*:*****:.******: *:* *:*:*:*:* *

Melibe_CRY2 LERKAWVASFERPKMSPQSLYPSGTGLSPYLRFGCLSPKTFYWKLTLEYKVKKIDPPL
Hermissenda_CRY2 LERKAWVASFERPKMSPQSLYPSGTGLSPYLRFGCLSPRTFYWKLTLEYKVKKIDPPL
Tritonia_CRY2 LERKAWVASFERPKMSPQSLYPSGTGLSPYLRFGCLSPKTFYWKLTLEYKVKKIDPPL
Crassostrea_CRY2 LERKAWVASFERPKMQSLFQSNVLSPYLRFGCLSRFLFYWKLTLEYKVKKIDPPL
***** *:*:* * . ***** : ***** *:*:* * * * *

Melibe_CRY2 ALHGQLLWREFFYTVSTNPNKFDPMVGNICVQIPEWHNPEALAKWAEGMTGYPWIDAIM
Hermissenda_CRY2 ALHGQLLWREFFYTVSTNNSKFDPMVGNICVQIPEWHNPEALAKWAEGMTGYPWIDAIM
Tritonia_CRY2 ALHGQLLWREFFYTVSTNPNKFDPMVGNICVQIPEWHNPEALAKWAEGMTGYPWIDAIM
Crassostrea_CRY2 SLHGQLLWREFFYTVATNPNKFDPMVGNICVQIPEWHNPEALAKWAEGMTGYPWIDAIM
:*****:.* * : * * . * :*****:.****** *:*.******

Melibe_CRY2 IQLRKEGWIHHLARHAVACFLTRGDLWISWEEGMKVFDEMLLDADWSVNAGTMMWLSCSA
Hermissenda_CRY2 VQLRKEGWIHHLARHAVACFLTRGDLWISWEEGMKVFDEMLLDADWSVNAGMWMWLSCSA
Tritonia_CRY2 VQLRKEGWIHHLARHAVACFLTRGDLWISWEEGMKVFDEMLLDADWSVNAGMWMWLSCSA
Crassostrea_CRY2 MQLRQTGWIHHLARHVSACFLTRGDLWISWEEGMKVFDEMLLDADWSVNAGMWMWLSCSA
:*:*: *:*:*.*:*:*.******:.*:****** *:*:*:* *

Melibe_CRY2 FFQQFFHCYCPVGFGRADPSGDFVRQYLPVLKNMPTQYIYEPWTAPESVQKAAKCI V GK
Hermissenda_CRY2 FFQQFFHCYCPVGFGRADPSGDFVRQYLPVLKNMPTQYIYEPWTAPESVQKAAKCV V GK
Tritonia_CRY2 FFQQFFHCYCPVGFGRADPSGDFVRQYLPVLKNMPTQYIYEPWTAPESVQKAAKCI V GK
Crassostrea_CRY2 FFQQFFHCYCPVGFGRADPTGDFIRTYLPVLKGYPAKYIYEPWTAPESVQRAAKCI I GE
*****:.* * * * * * . * :*****:.*:*:* *

Melibe_CRY2 DYPLPMVAHAEQSRINLERMRQIYKRLVVKSTAS---KRIFLDLPKI-----PKVGMFLS
Hermissenda_CRY2 DYPLPMVAHAEQSHINLERMRQYKRLVVKSTAS---KRIFLDLPKI-----PKVGMFLS
Tritonia_CRY2 DYPLPMVAHAEQSRVNLERMRHVYKRLVVKSTAS---KQIFLDLPKI-----PKVGMILS
Crassostrea_CRY2 DCPVPMVNAHEVSKLNTGRMKQVYQQQLAVYASIASVPKQIHSEEPYSKHEKAMHSGNHPS
* *:*:* * * * * * * * : * * * * * : * * * * * : * * * * *

Supplementary Fig. 9

```
Hermissenda_TIMEOUT      -----MDVELQATCSALGYLEGNVYVKEPDCLETVKDLIRFLRRSDTCDIRRQLGHAKI
D_melanogaster_TIMEOUT   --MSILLADIDATCAALGYSDGQKYQAEFDDAAEGLKHLIWIWLRRLDNHEYRRHLGRSKV
Homo_sapiens_TIMEOUT     MDLHMMNCELLATCSALGYLEGDTYHKEPDCLESVKDLIRYLRHEDETRDVRQQLGAAQI
                          :  :: ***:*** :*: *  ** . * :*.** **: :. : *:* ** :::

Hermissenda_TIMEOUT      VANDLIPLFKTYHADKTLFETVVKLLVNLTPVAACFNNQIPDEKTLRNFCLIEIETHLQD
D_melanogaster_TIMEOUT   LQTDLVYMLPDYVHHEELSDLLIRLLVILTNPTLLLYREGAPKDNHGRKVFMEIIDLQGG
Homo_sapiens_TIMEOUT     LQSDLLPILTQHHQDKPLFDAVIRLMVNLTPALLCFGN-LPKEPSFRHHFLQVLTLYLQA
                          : .** : : : .: * : :::*: * **:* . : : *.: * : ::: **

Hermissenda_TIMEOUT      TKEAFVDELFGVLADKIKDILQLDWRREEDYLQLERLFIIVRNVLMIIPDPGRELRT
D_melanogaster_TIMEOUT   YKAAFADKQVWVSALEKFKQALEIAFAIRSEEQNLLIERILVLRNVLQVPANPEAECRA
Homo_sapiens_TIMEOUT     YKEAFASEKAFGVLSETLYELLQLGWEERQEDNLLIERILLVLRNIVLHVPADLDQEKKI
                          * **... : :.* : : : * : : : * ** : * :***:***.* : * : * :

Hermissenda_TIMEOUT      DDDATIHDQILWASHTSGLEDLLLVASSDRERSRLCMHVMEIISLMFREQEVELAFAG
D_melanogaster_TIMEOUT   DNDASLHDQVIWALHQTGMLDLVLFVISSPDE-EQFHLHGLEIVCLLFREQSAESLADAS
Homo_sapiens_TIMEOUT     DDDASAHQQLLWAIHLSGLDLLLLFLASSAE-EQWSLHVLEIVSLMFRDQNPQLAGVG
                          *:***: ***:*** * :*: ***:** : ** * .: :* :***.*:***.* * ** ..

Hermissenda_TIMEOUT      VQRSMTEKEKQRELEKAREKEKAMKKANILKYSARHSRFGGTFVKNVKSITESNVIYH
D_melanogaster_TIMEOUT   LQRSLSEKQRDQQLLAARRRERARRQAR--PPPGRHSRFGGTYVTRNMKSVSDRDVICH
Homo_sapiens_TIMEOUT     QGRLAQERSADFAEVLVLRQREMAEKKTRALQGRNRHSRFGGSYIVQGLKSIGERDLIFH
                          * *.: * ** * :.* * : :. . *****: : : : : ** : : : * *
```

Supplementary Table 1

Analysis	Protein	Phylum	Species	Accession Number	
CLOCK	CLOCK	Annelida	<i>Platynereis dumerilii</i>	AGX93013.1	
		Arthropoda	<i>Acyrtosiphon pisum</i>	NP_001164531	
			<i>Apis mellifera</i>	XP_394233.4	
			<i>Camponotus floridanus</i>	XP_011266082.1	
			<i>Drosophila melanogaster</i>	O61735.3	
				AGV28720, AGV28721,	
			<i>Eurydice pulchra</i>	AGV28722, AGV28723	
			<i>Macrobrachium rosenbergii</i>	AAX44045.1	
			<i>Thermobia domestica</i>	BAJ16353.1	
		Chordata	<i>Danio rerio</i>	NP_571032.2	
			<i>Homo sapiens</i>	AAB83969.1	
			<i>Mus musculus</i>	Gene ID: 12753	
			<i>Rattus norvegicus</i>	NP_068628.1	
			<i>Xenopus laevis</i>	AAF34772.1	
		Cnidaria	<i>Nematostella vectensis</i>	XP_001639742.1	
		Mollusca	<i>Aplysia californica</i>	XP_012945840.1	
<i>Biomphalaria glabrata</i>	XP_013079457				
<i>Crassostrea gigas</i>	AQM57601.1				
BMAL1-CYCLE	BMAL1	Annelida	<i>P. dumerilii</i>	AGX93014.1	
		Arthropoda	<i>E. pulchra</i>	AGV28715.1	
			<i>Pacifastacus leniusculus</i>	AFV39705.1	
		Chordata	<i>D. rerio</i>	AAF64395.1	
			<i>H. sapiens</i>	BAA19935.1	
			<i>M. musculus</i>	Q9WTL8.2	
			<i>R. norvegicus</i>	BAA33450.1	
			<i>X. laevis</i>	AAW80970.1	
		Mollusca	<i>C. gigas</i>	AQM57603.1	
		CYCLE	Arthropoda	<i>A. pisum</i>	NP_001164574.1
				<i>Aedes aegypti</i>	AEX32872.1

			<i>D. melanogaster</i>	AAF49107.1
			<i>Danaus plexippus</i>	EHJ64590.1
			<i>T. domestica</i>	BAJ16354.1
PERIOD	PERIOD	Arthropoda	<i>Antheraea pernyi</i>	AAA64675.1
			<i>A. mellifera</i>	UniProtKB: Q9NDF3
			<i>Bombyx mori</i>	NP_001036975.1
			<i>D. plexippus</i>	AAO48719.1
			<i>D. melanogaster</i>	AAF45804.1
			<i>E. pulchra</i>	AGV28714.1
			<i>Macrobrachium nipponense</i>	ANN13870.1
			<i>Musca domestica</i>	AAD39163.1
			<i>Periplaneta americana</i>	AAA64677.2
			<i>Tribolium castaneum</i>	NP_001106933.1
		Chordata	<i>D. rerio</i>	NP_997604.2, NP_878277.2
			<i>H. sapiens</i>	O15534.2, O15055.2
			<i>M. musculus</i>	O35973, O54943
			<i>R. norvegicus</i>	Q8CHI5.2, Q9Z301.1
			<i>X. leavis</i>	NP_001079172.2, NP_001081098.1
		Mollusca	<i>Bulla gouldiana</i>	AAK97374.1
			<i>C. gigas</i>	AQM57604.1
	NPAS	Mollusca	<i>C. gigas</i>	EKC18855.1
CRYPTOCHROMES	NPCRY	Annelida	<i>P. dumerilii</i>	AGX93012.1
		Arthropoda	<i>Anopheles gambiae</i>	ABB29887.1
			<i>A. pernyi</i>	ABO38435.1
			<i>D. plexippus</i>	EHJ74426.1
			<i>Daphnia pulex</i>	EFX82092.1
			<i>Euphausia superba</i>	CAQ86665.1
			<i>E. pulchra</i>	AGV28717.1
		Chordata	<i>Astyanax mexicanus</i>	AHA91700.1

				NP_571865.4, NP_001070765.2, BAA96848.1, NP_571867.2
			<i>D. rerio</i>	
			<i>Gallus gallus</i>	AAK61385.1, AAK61386.1
			<i>M. musculus</i>	AAH85499.1, AAH54794.1
			<i>Xenopus tropicalis</i>	NP_001017311.2
		Cnidaria	<i>Amphimedon queenslandica</i>	XP_003386569
		Mollusca	<i>A. californica</i>	XP_012941094.1
			<i>C. gigas</i>	AQM57602.1
			<i>Euprymna scolopes</i>	AGJ94015.1
	PCRY	Arthropoda	<i>A. gambiae</i>	ABB29886.1
			<i>A. pernyi</i>	AAK11644.1
			<i>D. plexippus</i>	EHJ63675.1
			<i>D. melanogaster</i>	AAC83828.1
		Mollusca	<i>C. gigas</i>	ANJ02841.1
			<i>E. scolopes</i>	AGJ94014.1
TIMELESS	TIMELESS	Arthropoda	<i>A. aegypti</i>	AAY40757.1
			<i>B. mori</i>	ABD52733
			<i>D. plexippus</i>	EHJ67997.1
			<i>D. pulex</i>	EFX80829
			<i>D. melanogaster</i>	P49021.3
			<i>E. pulchra</i>	AGV28716.1
			<i>Gryllus bimaculatus</i>	BAJ16356.1
			<i>T. domestica</i>	BAL27710.1
			<i>T. castaneum</i>	EFA04644.2
		Mollusca	<i>C. gigas</i>	KX371077.1
TIMELESS	TIMEOUT	Arthropoda	<i>D. plexippus</i>	EHJ76705.1
			<i>D. melanogaster</i>	AAF54908.3
			<i>T. castaneum</i>	TC000593
		Chordata	<i>D. rerio</i>	NP_001265529
			<i>H. sapiens</i>	NP_003911
			<i>R. norvegicus</i>	Q9Z2Y1.1

	<i>X. leavis</i>	BAE45344.1
Cnidaria	<i>N. vectensis</i>	XP_001641000.1
Nematoda	<i>Caenorhabditis elegans</i>	NP_499594.2

Supplementary Table 2

Protein	Accession Number	Species	Protein description	BLAST score	E-value	Percent Identity
BMAL1	XP_013096539.1	<i>Biomphalaria glabrata</i>	PREDICTED: aryl hydrocarbon receptor nuclear translocator-like protein 1	867	0	69
	XP_014775902.1	<i>Octopus bimaculoides</i>	PREDICTED: protein cycle-like isoform X1	636	0	56
	XP_014775904.1	<i>Octopus bimaculoides</i>	PREDICTED: protein cycle-like isoform X3	636	0	55
	XP_014775903.1	<i>Octopus bimaculoides</i>	PREDICTED: protein cycle-like isoform X2	633	0	56
CLOCK		<i>Mizuhopecten yessoensis</i>	protein cycle-like	603	0	52
	XP_012945840.1	<i>Aplysia californica</i>	PREDICTED: circadian locomoter output cycles protein kaput-like	777	0	63
	XP_013079457.1	<i>Biomphalaria glabrata</i>	PREDICTED: circadian locomoter output cycles protein kaput-like	764	0	62
	XP_021367049.1	<i>Mizuhopecten yessoensis</i>	circadian locomoter output cycles protein kaput-like isoform X2	473	4.00E-156	58
	AQM57601.1	<i>Crassostrea gigas</i>	clock	472	5.00E-155	56
	XP_011429631.1	<i>Crassostrea gigas</i>	PREDICTED: circadian locomoter output cycles protein kaput	471	1.00E-154	56
PCRY	XP_013075939.1	<i>Biomphalaria glabrata</i>	PREDICTED: cryptochrome-1-like	821	0	69
	XP_005089742.1	<i>Aplysia californica</i>	PREDICTED: cryptochrome-1-like	811	0	69
	ANJ02841.1	<i>Crassostrea gigas</i>	cryptochrome 1	680	0	59
	XP_022291740.1	<i>Crassostrea virginica</i>	cryptochrome-1-like	678	0	59
	XP_011423247.1	<i>Crassostrea gigas</i>	PREDICTED: cryptochrome-1 isoform X2	676	0	59
NPCRY	XP_012941094.1	<i>Aplysia californica</i>	PREDICTED: cryptochrome-1-like	1016	0	86
	XP_013080710.1	<i>Biomphalaria glabrata</i>	PREDICTED: cryptochrome-1-like	870	0	85
	XP_022292416.1	<i>Crassostrea virginica</i>	cleavage stimulation factor subunit 3-like	820	0	72
	XP_022292411.1	<i>Crassostrea virginica</i>	cleavage stimulation factor subunit 3-like	820	0	72
	XP_021355346.1	<i>Mizuhopecten yessoensis</i>	cleavage stimulation factor subunit 3-like	813	0	67

PERIOD	XP_012944985.1	<i>Aplysia californica</i>	PREDICTED: uncharacterized protein LOC101860455	976	0	53
	XP_013061840.1	<i>Biomphalaria glabrata</i>	PREDICTED: uncharacterized protein LOC106051222	877	0	44
	AAK97374.1	<i>Bulla gouldiana</i>	circadian clock protein period	764	0	57
	AQM57604.1	<i>Crassostrea gigas</i>	period	346	7.00E-95	30
	XP_011434455.1	<i>Crassostrea gigas</i>	PREDICTED: period circadian protein isoform X2	344	2.00E-94	30
TIMELESS	XP_013061258.1	<i>Biomphalaria glabrata</i>	PREDICTED: protein timeless-like isoform X2	604	0	51
	XP_013061257.1	<i>Biomphalaria glabrata</i>	PREDICTED: protein timeless-like isoform X1	603	0	51
	XP_012943985.1	<i>Aplysia californica</i>	PREDICTED: protein timeless-like	575	0	51
	XP_019872456.1	<i>Aethina tumida</i>	PREDICTED: protein timeless-like	238	4.00E-63	31
	XP_022287880.1	<i>Crassostrea virginica</i>	protein timeless-like isoform X4	231	3.00E-61	28

Supplementary Table 3

Clock proteins	Reference genome	Gene name	Ensemble subject name	BLAST score	E-value	Percent identity
BMAL1	<i>Drosophila melanogaster</i>	<i>cycle</i>	FBpp0074693	407	2.00E-135	50.75
	<i>Mus musculus</i> (CL57BL6)	<i>arntl (bmal1)</i>	ENSMUSP00000147764	548	0	52.08
CLOCK	<i>D. melanogaster</i>	<i>clock</i>	FBpp0076500	333	2.00E-101	43.86
	<i>M. musculus</i> (CL57BL6)	<i>clock</i>	ENSMUSP00000144022	381	1.00E-120	54.08
pCRY	<i>D. melanogaster</i>	<i>cry (p-cry)</i>	FBpp0083150	488	2.00E-166	45.25
	<i>M. musculus</i> (CL57BL6)	<i>cry1 (np-cry)</i>	ENSMUSP00000020227	456	4.00E-153	45.84
npCRY	<i>D. melanogaster</i>	<i>phr6-4</i>	FBpp0080934	516	3.00E-177	51.2
	<i>M. musculus</i> (CL57BL6)	<i>cry1 (np-cry)</i>	ENSMUSP00000020227	749	0	70.29
PERIOD	<i>D. melanogaster</i>	<i>period</i>	FBpp0304590	159	9.00E-39	27.49
	<i>M. musculus</i> (CL57BL6)	<i>period2</i>	ENSMUSP00000066620	150	6.00E-36	29.72
TIMELESS	<i>D. melanogaster</i>	<i>timeless</i>	FBpp0401565	212	5.00E-57	29.19
	<i>M. musculus</i> (CL57BL6)	<i>timeless</i> (timeout)	ENSMUSP00000100876	54.7	4.00E-07	21.67