

Drome-CWO	RQDPLSHRIIEKRRRDRMNSCLADLSRLIPPOYQRKGRGRRIEKTEIIEMAIRHLKHLOSE
Tal-CWO	---PMSHRIIEKRRRDRMNNCLADLSRLIPAIYLKKGRGRRIEKTEIIEMAIKHLKHLOAH
Metoc	KRDPMSSHRIIEKRRRDRMNNCLADLSRLIPAIYLKKGRGRVEKTEIIEMAIKHLKHLOSH
Ixosc	ARDPMSSHRIIEKRRRDRMNNCLADLSRLIPAVYLKKGRGRVEKTEIIEMAIKHLRHLOAH *:*****.*****.*****. * :*****:*****:***:***:.
Drome-CWO	CQQKE SDYRSGYMDCMKEAAKFLYDVHMQDFCHRLLGRLQEHIDEMFR TDCYKSTRSCHM
Tal-CWO	SCKDPATCEVAHR--IETDHR HQYRLGFHECMS ECVRFLVIEGMYAGDDLICIRLMNHL
Metoc	ACNDPATCEVAQR--IDTDHR HQYRLGFQECMS ECVRFLVDIEGRYANDEF CIRLMTHL
Ixosc	SCKDPPTCEVAQR--VSDDHRL QYRLGFQECMS ETARFLVDLDGSCTADDTCFRLVAHL . .: . . . : . : * : : :: * : . :: * * : *
Drome-CWO	PDNVSAASSGSYPHQAYPPPLCHLRMLATSASDVEHSQDHNDVKDLSFRNHLNQLQRSQQA
Tal-CWO	QKHFDKVAGHGFCYQIPG--GSGPTQ-----NNSSSPNP-----I
Metoc	KKHLDKLQGHNICYQVPGAVGSGPGQSTRTPVASSSTASNGNSSSSGATTPATQIIQ
Ixosc	QKHFDKVSGAGSCYPAGLVLSDDEAT-----M . .: . * -----
Drome-CWO	AAAAAVAAAAAVANGSSPASNAGVDSKVPLTNGGTGGAPPAADNVPNSTGGSAAAC
Tal-CWO	QVNTOQSASISIQIIRLPFKGM-----
Metoc	QTPQQVPAIPIQIHPSSGVNVMGSPAATTRLSSDDVRSLESEPSESAFTRRAGGTFAP
Ixosc	EPPERQPKQEPTAALPDGSCS-----SSSSCS-----

Figure S7. Putative *Talitrus saltator* CLOCKWORK ORANGE (CWO) protein

Alignment of *Drosophila melanogaster* CWO (Drome-CWO; Accession no. AAF54527) with the *T. saltator* CWO (Tal-CWO) deduced from the Trinity *de novo* transcriptome assembly, together with the top two tblastn species homologue sequences *Metaseiulus occidentalis* uncharacterized (Metoc; Accession No. XM_003744642) and *Ixodes scapularis* conserved hypothetical protein (Ixosc; Accession No. XM_002400882). 5' and 3' sequence removed from all sequences except Tal-CWO. '*' indicates identical amino acid residues in the two proteins, '.' and ':' indicate similar amino acid residues between the two proteins. In this figure SMART identified domains of bHLH domain and Orange of the Hairy/E(SPL) family domain are highlighted in yellow and green respectively.