

Supplementary Table 1

Summary information of selected target metabolic, clock and light-related genes, and candidate reference genes (hk)

	Gene Name	Short Form	Forward Primer Sequence 5'-3'	Reverse Primer Sequence 5'-3'	Internal Probe Sequence 5'-3'	Sequence ID
metabolism	citrate synthase	cs	ATGTCTCGCTGCTGCTATCTC	TCTTCACTAGTTATTGTTGATGCCAGAA	CAAGTCCTCAAAATTC	ESS076337
	ATP synthase subunit gamma	atp	GTCAAGAACATCCAGAAGATCACTCA	GCTTCAACTCCCTTTTCAGCTCTT	CTGCTGCCAAGTTTGC	ESS129614
	phosphofructokinase-6	pfk6	AGTTATAACAAGAGTTAAGCAGCAGTGT	CCCTGACATGCCAAAAATGCA	ATACCGACCAAAATCA	ESS011313
	acetyl-CoA carboxylase	acc	TGCAGACGCCTCAAGTTGA	GTTTGTTAGCGCCACAGTTTGT	AACAACGCCAGACCTT	ESS011644
	glutamate dehydrogenase	gldh	CTGTTCAATCCTTGTCAAGATGCTT	TGTACTGGCACTGGCTTATATTGC	CCAAGCAACAATACCC	ESS028087
	elongation factor 1-alpha	ef1a	TGGGCAAGGAAAAGATCCACATC	CTTGCCGGAGTCGACATGA	CCAACCACCACAATCG	ESS116888
clock	clock	clk	GGCCTCAGTTGGTACGAGAAATG	AATTTCCATTCTATACTGTGCCTTGATGT	TTGGCTCCAGAATCAT	ESS034513
	cryptochrome 2	cry2	CAGTGCTCAAGAACTTCCCAACTAA	GCGTCCTATGACACATTTAGACTGT	ACTGCACCAGAAAAT	ESS118469
	timeless 1	tim1	CAAGACAAAGCGAGATGGCATT	AGGGTTGGAAGAAGGTTTTGTGAAA	TCGGCGTTCACTCTTC	ESS040526
light	medium-wavelength sensitive opsin	rh1a	TCATTGATAAGCATTGGGCCAACT	GCCAAGGACATAGTGCCACAT	TCCCACCTGTGAACCC	ESS058227
	long-wavelength sensitive opsin	rh6	GTGTATGCCATTAGTCATCCCAAGT	ACTGAGCCATGGCATTTTTCGT	CCGTGCTGCCCTCTAT	ESS092680
	peropsin	rrh	CTGCTGTTGGTGCCATGATC	TGTGATGCACTACTTTCTCTTAGATTGAG	CTCCACAGGAACTTCT	ESS008171
hk	ribosomal protein S13	rpS13	TGCTCAGGTTGCTTTGTCA	CTCTGGGATATCTGGAGCAAGTC	CACACGCAGGATTTT	ESS060818
	ribosomal protein L32	rpL32	TCAAGCCTAACTGGCGTAAGC	TGACCCTTGAAGCGACGAC	CCTGTTGTCAATACCC	ESS059136
	ubiquitin carboxyl-terminal hydrolase 46	usp46	TGGAACTGGTATTAACAGAGGACACT	ACTGCATCGTCATCAAAGAGCA	AAGAGCCACAGATTTT	ESS079224

all sequences available online at <http://krilldb.bio.unipd.it/>