

Table 1 Suppl. Homologues of primary circadian clock genes in different plant species.

<i>Arabidopsis thaliana</i> (At)	<i>Fragaria vesca</i> (Fv)	<i>Prunus persica</i> (Pp)	<i>Solanum lycopersicum</i> (Sl)	<i>Zea mays</i> ssp. <i>mays</i> (Zm)	<i>Oryza sativa</i> ssp. <i>japonica</i> (Os)
AT2G46830 (<i>AtCCA1</i>)		Prupe.2G200300.1 (<i>PpCCA1</i>)		GRMZM2G014902_T01 (<i>ZmCCA1</i>) (Wang <i>et al.</i> 2011)	LOC_Os08g06110.3 (<i>OsCCA1</i>) (Murakami <i>et al.</i> 2007)
AT1G01060 (<i>AtLHY</i>)	gene18601 (<i>FvLHY</i>)	Prupe.2G200400.1 (<i>PpLHY</i>)	Solyc10g005080.2.1 (<i>SILHY</i>) (Calixto <i>et al.</i> 2015)	GRMZM2G474769_T01 (<i>ZmLHY</i>) (Hayes <i>et al.</i> 2010)	
AT2G46790 (<i>AtPRR9</i>)	gene18611 (<i>FvPRR9</i>)	Prupe.2G198500.1 (<i>PpPRR9</i>)	Solyc10g005030.2.1 (<i>SIPRR9</i>) (Calixto <i>et al.</i> 2015)	GRMZM2G179024_T01 (<i>ZmPRR9</i>) (Campoli <i>et al.</i> 2012)	LOC_Os09g36220.2 (<i>OsPRR9</i>) (Calixto <i>et al.</i> 2015)
AT5G02810 (<i>AtPRR7</i>)	gene18151 (<i>FvPRR7</i>)	Prupe.6G244200.1 (<i>PpPRR7</i>)	Solyc10g086000.1.1 (<i>SIPRR7</i>) (Calixto <i>et al.</i> 2015)	GRMZM2G095727_T05 (<i>ZmPRR7</i>) (Hayes <i>et al.</i> 2010)	LOC_Os03g17570.3 (<i>OsPRR7</i>) (Calixto <i>et al.</i> 2015)
AT3G09600 (<i>AtRVE8</i>)	gene18104 (<i>FvRVE8</i>)	Prupe.6G242700.1 (<i>PpRVE8</i>)	Solyc10g084370.1.1 (<i>SIRVE8</i>)	GRMZM5G833032_T01 (<i>ZmRVE8</i>)	LOC_Os02g45670.1 (<i>OsRVE8</i>)
AT5G02840 (<i>AtRVE4</i>)	gene18104			GRMZM2G057408_T02 (<i>ZmRVE4</i>)	
AT5G52660 (<i>AtRVE6</i>)	gene13188 (<i>FvRVE6</i>)		Solyc06g036300.2.1 (<i>SIRVE6</i>)	GRMZM2G057408_T02 (<i>ZmRVE6</i>)	
AT5G24470 (<i>AtPRR5</i>)	gene12454 (<i>FvPRR5</i>)	Prupe.2G318900.1 (<i>PpPRR5</i>)	Solyc03g081240.2.1 (<i>SIPRR5</i>) (Calixto <i>et al.</i> 2015)	GRMZM2G135446_T01 (<i>ZmPRR5</i>) (Hayes <i>et al.</i> 2010)	LOC_Os11g05930.1 (<i>OsPRR5</i>) (Calixto <i>et al.</i> 2015)
AT5G60100 (<i>AtPRR3</i>)		Prupe.6G244200.1	Solyc04g049670.2.1 (<i>SIPRR3</i>) (Calixto <i>et al.</i> 2015)	GRMZM2G033962_T01 (<i>ZmPRR3</i>) (Hayes <i>et al.</i> 2010)	LOC_Os07g49460.3 (<i>OsPRR3</i>) (Calixto <i>et al.</i> 2015)
AT5G61380 (<i>AtTOC1</i>)	gene26055 (<i>FvTOC1</i>)	Prupe.5G198000.1 (<i>PpTOC1</i>) Prupe.5G197900.1 (<i>PpTOC1-like</i>)	Solyc06g069690.2.1 (<i>SITOC1</i>) Solyc03g115770.2.1 (<i>SITOC1-like</i>) (Calixto <i>et al.</i> 2015)	GRMZM2G020081_T01 (<i>ZmTOC1</i>) (Wang <i>et al.</i> 2011)	LOC_Os02g40510.1 (<i>OsTOC1</i>) (Calixto <i>et al.</i> 2015)
AT5G08330 (<i>AtCHE</i>)	gene12294 (<i>FvCHE</i>)	Prupe.1G070500.1 (<i>PpCHE</i>)	Solyc04g009180.1.1 (<i>SICHE</i>)	GRMZM2G445944_T01 (<i>ZmCHE</i>)	LOC_Os02g58180.1 (<i>OsCHE</i>)
AT3G46640 (<i>AtLUX</i>)	gene30204 (<i>FvLUX</i>)	Prupe.6G071400.1 (<i>PpLUX</i>)	Solyc06g005680.2.1 (<i>SILUX</i>) (Campoli <i>et al.</i> 2013)	GRMZM2G067702_T01 (<i>ZmLUX</i>) (Khan <i>et al.</i> 2010)	LOC_Os01g74020.1 (<i>OsLUX</i>) (Murakami <i>et al.</i> 2007)
AT5G59570 (<i>AtBOA</i>)			Solyc06g005680.2.1		
AT2G25930 (<i>AtELF3</i>)	gene02656 (<i>FvELF3</i>)	Prupe.1G416000.1 (<i>PpELF3</i>)	Solyc08g065870.2.1 (<i>SIELF3a</i>) Solyc12g095900.1.1 (<i>SIELF3b</i>) (Calixto <i>et al.</i> 2015)	GRMZM2G045275_T01 (<i>ZmELF3b</i>) AC233870 (<i>ZmELF3</i>)	LOC_Os06g05060.1 (<i>EF7</i>) (Murakami <i>et al.</i> 2007) LOC_Os01g38530.1 (<i>OsEF3</i>) (Fu <i>et al.</i> 2009)
AT2G40080 (<i>AtELF4</i>)	gene20968 (<i>FvELF4</i>)	Prupe.2G249800.1 (<i>PpELF4</i>)	Solyc06g051660.1.1 (<i>SIELF4a</i>) Solyc06g051680.1.1 (<i>SIELF4b</i>)	GRMZM5G877647_T01 (<i>ZmELF4</i>)	LOC_Os11g40610.5 (<i>OsELF4</i>)
AT5G57360 (<i>AtZTL</i>)	gene16999 (<i>FvZTL</i>)	Prupe.1G082600.1 (<i>PpZTL</i>)	Solyc07g017750.2.1 (<i>SIZTL</i>) (Calixto <i>et al.</i> 2015)	GRMZM2G113244_T01 (<i>ZmZTLa</i>) GRMZM2G147800_T01 (<i>ZmZTLb</i>) (Calixto <i>et al.</i> 2015)	LOC_Os02g05700 (<i>OsZTL1</i>) LOC_Os06g47890 (<i>OsZTL2</i>) (Murakami <i>et al.</i> 2007)

Table 2 Suppl. List of primers used in this study.

Gene name	Primers	Primer sequence (5' to 3')
<i>FvLHY</i>	CXD-146-18601-QRT-F1 CXD-147-18601-QRT-R1	CACTCAGAAGCTGTGCAAGC GTAAGTGGACTCAGAAGCTG
<i>FvPRR9</i>	CXD-148-18611-QRT-F1 CXD-149-18611-QRT-R1	GTAGCAGGTGAGATGGCCAC CAATGTGAGCTCTATGCACG
<i>FvPRR7</i>	CXD-150-18151-QRT-F1 CXD-151-18151-QRT-R1	CTGCAGCAGCTCCACATTGC CGAGGTCGCTGTTCTGCTAG
<i>FvRVE8</i>	CXD-152-18104-QRT-F1 CXD-153-18104-QRT-R1	GTCACAAGCTCATGTGCGCCA CTGCTGAGCTATAGTCCGAAG
<i>FvRVE6</i>	CXD-154-13188-QRT-F1 CXD-155-13188-QRT-R1	CGAGTTGTCATAGCGCAGA GTGGTCTGTTGAATCACCATC
<i>FvPRR5</i>	CXD-156-12454-QRT-F1 CXD-157-12454-QRT-R1	CTGCAATGGCAATGCAAGTC GAAGGATCAGTAACTTGACG
<i>FvPRR3</i>	CXD-158-26055-QRT-F1 CXD-159-26055-QRT-R1	CTCTCAAGTGCCTGAGCATC GGTTGTAAGCATATACTGAG
<i>FvCHE</i>	CXD-160-12294-QRT-F1 CXD-161-12294-QRT-R1	CATCCTCGGTAAGCGCATGC CCGACTGCTGCTGACTCATC
<i>FvBOA</i>	CXD-162-30204-QRT-F1 CXD-163-30204-QRT-R1	CAGCCACTTGACAGAAGTACC TGTAAGTGGGTATAGCCATC
<i>FvELF3</i>	CXD-164-02656-QRT-F1 CXD-165-02656-QRT-R1	GTATACCTTGTGCACGGCGAC TCGACTTCTCAGACTCATGC
<i>FvZTL</i>	CXD-168-16999-QRT-F1 CXD-169-16999-QRT-R1	CAATGGACCTGAGTGAGGATG GAGGCAGAGTGAAGACCAGC
<i>FvGADPH</i>	CXD-132-FvGADPH-QRT-F1 CXD-133-FvGADPH-QRT-R1	CAGAAGACTGTTGATGGACC GCAGCCTTAATCTGGTCATAG

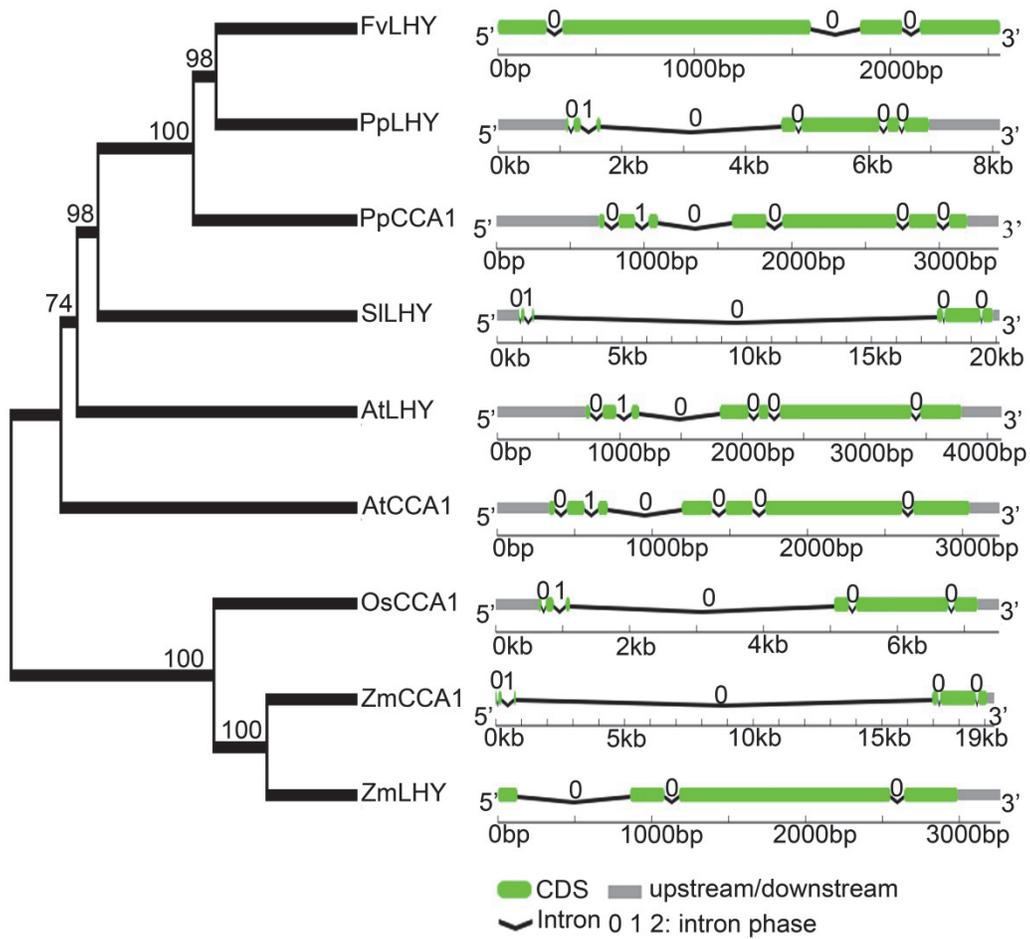


Fig. 1 Suppl. The exon-intron organization of *LHY* and *CCA1* genes. The exons and introns are indicated by *green wedges* and *black lines*, respectively. Untranslated regions (UTRs) are represented by *gray boxes*. Introns of phase 0 (located between codons) and phase 1 (located between the first and second nucleotides of a codon) (Long and Deutsch 1999) are indicated by the numbers 0 and 1, respectively.

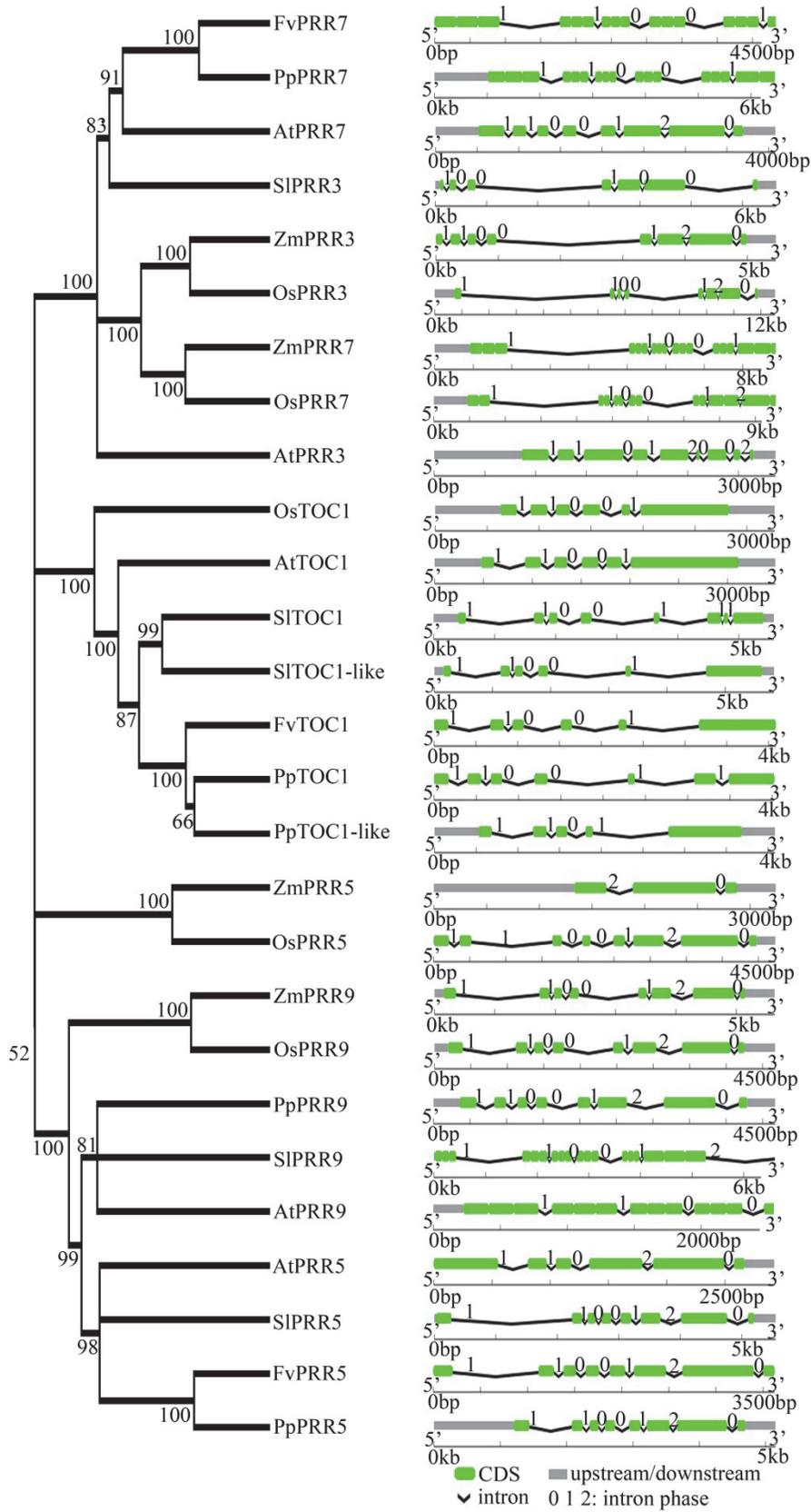


Fig. 2 Suppl. The exon-intron organization of *PRR* genes.

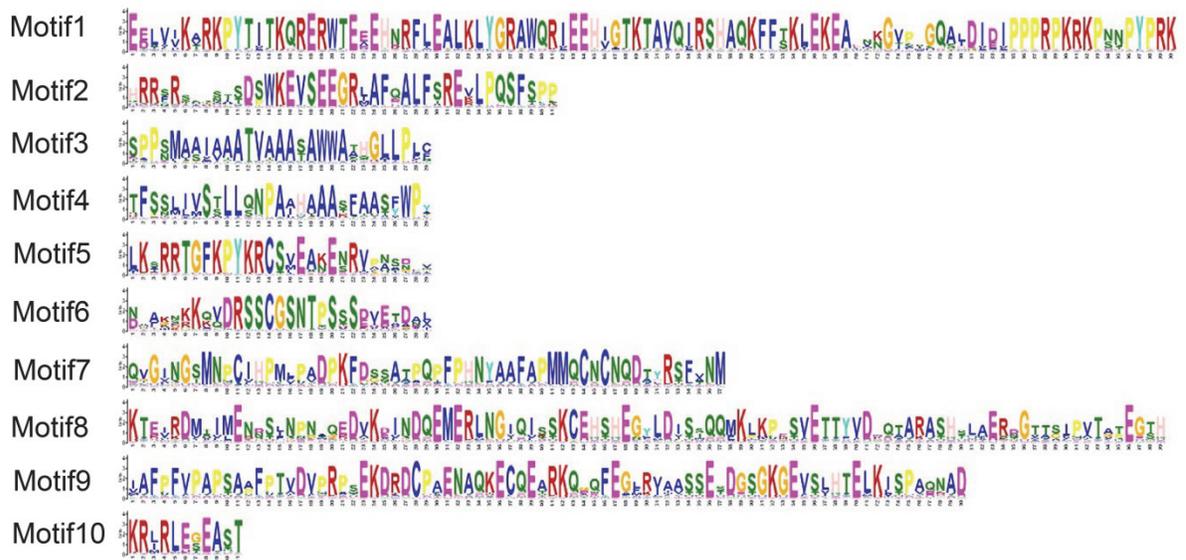


Fig. 3 Suppl. The sequences of conserved motifs of CCA1/LHY proteins identified by the *MEME* tool.



Fig. 4 Suppl. The sequences of conserved motifs of PRR proteins identified by the *MEME* tool.

References

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