

1 Table S1: Primers sequences used in this study

2 **Quantitative real-time PCR primers**

Gene Name	ATG number	Forward primer	Reverse primer
<i>ACT2</i>	At3g18780	CTTGCACCAAGCAGCATGAA	CCGATCCAGACACTGTACTTCCTT
<i>TAFII15</i>	At4g31720	GAATCACGGCCAACAATC	ACTCTTAGCCAAGTAGTGCTCC
<i>UBC21</i>	At5g25760	ACTCTTAGCCAAGTAGTGCTCC	GAATCACGGCCAACAATC
<i>HEMA1</i>	At1g58290	GCTTCGCGAGTCTTCAAAC	GGCATCTCCTCACGGATAGC
<i>GSA1</i>	At5g63570	CTTACCAGCTTCTAACCGATG	CACCTCCAGGCATTAGATTCTTAG
<i>GUN4</i>	At3g59400	CTGCTCTGCTTCTCCACCT	TCTCCTCGTCGGCTTGTCT
<i>GUN5</i>	At5g13630	CCTCAATGTGTTTGCTTCCA	GTTTCCCCCAGTTTTCTTCC
<i>CHLM</i>	At4g25080	TTTCTGCTGCTATGGTTGCT	GCTTTGTTCTGCGGGTAATG
<i>PORA</i>	At5g54190	ACCCTCTTCCCTCCTTCC	TTCTCGCTGACTTCCCAAAC
<i>PORB</i>	At4g27440	CGGTGATTGAGGGGTTTAG	AAGAGGGCACGGAAGAGAG
<i>LHCB1</i>	At1g29910	GTGACAATGGCTTGAACGAA	GGCTACAGAGTCGCAGGAAA
<i>LHCB6</i>	At1g15820	AGGTGGTGGCAACTTCCTTGAC	AACCCGAAATCTCCTGGTAGCG
<i>GNC</i>	At5g56860	AGGGTTGTTCGTGATGGTTT	TTGGACTCTTTTGCCGTCT
<i>GNL</i>	At4g26150	CCGTCTCTTCTACTTTTCTT	TCACTTGATGATGAACCACC
<i>ARR5</i>	At3g48100	CTACTCGCAGCTAAAACGC	GCCGAAAGAATCAGGACA
<i>ARR15</i>	At1g74890	CTGCTTGTAAGTGACGACTGTTG	AGTTCATATCCTGTTAGTCCCGGC

3

4 **ChIP qPCR primers**

Gene Name	Forward primer	Reverse primer
5' HEMA1	TCTCAATGCATTCTCATTACA	AAGGAGATCGCTGTGAATATG
3' HEMA1	TTTGTGTGCAAGAGACTAACA	CTGGGACCAATACCATTACAC
5' LHCB6	GTGTGGGTGATGTGGATATG	AGAGGAGATTTAGAGGGACAA
3' LHCB6	GGAGATTCTTCGATCCGTTG	GTGCTTAATCTCTGCCAATTTT
5' LHCB1.2	CTAGAGACTGCCACATAAGAATAG	ACTTGTGAGTGAGAGTGATTG
3' LHCB1.2	CCGATCCAGTCAACAACAA	AAGTCTCAAACCATCACATACA
5' ARR15	GATTATGACCGTGAAGACACA	GAGAAAAGAGGAGGAGATTTAAGG
5' TUB2	CACAAAGGAAGTTGACGAGCAG	CGCCTGAACATCTCTTGATTG

5

6