



**Figure S1.** Antibody characterization. (A) Purified recombinant MCM7 (lanes 1-3) and MCM5 (lanes 4-5) were resolved by SDS-PAGE and the blots were probed with anti-MCM5 (top) and anti-MCM7 (bottom) antibodies. Three quantities of recombinant protein were loaded 50 ng (lanes 1 and 4), 25 ng (lanes 2 and 5), and 5 ng (lanes 3 and 6). (B) Total protein extract (50  $\mu$ g) from Arabidopsis (lanes 2 and 5) and tobacco (lanes 3 and 6) cultured cells as well as purified recombinant (25 ng) MCM5 (lane 1) and MCM 7 (lane 4) were resolved by SDS-PAGE, and the blots were probed with anti-MCM5 (left) and anti-MCM7 (right) antibodies. (C) Total protein extract (50  $\mu$ g) from Arabidopsis culture cells (lanes 2 and 4) and purified recombinant (25 ng) ORC1 (lane 1) and ORC2 (lane 3) were resolved by SDS-PAGE, and the blots were probed with anti-ORC1 (left) and anti-ORC2 (right) antibodies.

**Table S1.** *Clones generated for this study*

Clone ID	Gene	Vector backbone	Description	Primers
RS91C	AtORC1	pENTR/D-TOPO	Entry clone	prRS68F prRS68R
RS175	AtORC1	pDEST17	6XHis-tag expression clone	
RS75B	AtORC2	pENTR/D-TOPO	Entry clone	prRS76F prRS76R
RS94A	AtORC2	pET-DEST42	6XHis-tag expression clone	
RS124E	AtMCM5	pENTR/SD/D-TOPO	Entry clone	prRS107 prRS124
RS172A	AtMCM5	pET-DEST42	6XHis-tag expression clone	
RS105A	AtMCM7	pENTR/SD/D-TOPO	Entry clone	prRS80F prRS80R
RS106A	AtMCM7	pET-DEST42	6XHis-tag expression clone	
<i>Primer sequences</i>				
prRS68F	5'-CACCATGGCTTCTTCTCCGAGTTC			
prRS68R	5'-GAAGTAATTGGCCAACCATGGAAGAT			
prRS76F	5'-CACCATGGAGGACATTGAGAACATAGAA			
prRS76R	5'-CTGATTGAGATCAAGCAAAAGCTGTTCG			
prRS107	5'-CACCATGTCAGGATGGGACGAAGG			
prRS124	5'-AGCTTTGCGGACAATAGAACGTCTCT			
prRS80F	5'-CACCATGAAAGACCACGATTTTCGAC			
prRS80R	5'-GATAAAACGGATGTCAAAGGTGTGAGGT			

**Table S2.** *Primers used for real-time RT-PCR*

Gene	Primer Sequence
UBC (At5g25760)	5'-TGGACCGCTCTTATCAAAGG 5'-GGCGAGGCGTGTATACATTT
CYCB1;1 (At4g37490)	5'-GGTTAAGCCAGTGCCTCGAAAAGAA 5'-GCAGAAGCAGCTACCATTGATGGAC
MCM2 (At1g44900)	5'-TTGCAATCTGGCTTGCGGAT 5'-TTGCTGCAGCTGAGGAAAGA
MCM3 (At5g46280)	5'-GGTCCTCGCTGATAAAGGTATCGTG 5'-TCTTCTCTCGCGTAAGGCAAGCTC
MCM4 (At2g16440)	5'-AGCTATGCCCCGCAAGAACAT 5'-TCCGTTGCTGATTGCTGCAT
MCM5 (At2g07690)	5'-TGCAGCGGAAATATGTCACAATCAG 5'-TAATCGAGCTCCGATCCCCATTCTT
MCM6 (At5g44635)	5'-TTGCCCATCATATTGTGCGAGTTCA 5'-TGTCGTCCATGTTGTCACCATTAGC
MCM7 (At4g02060)	5'-GCCCTTCTTTCAAGATTCGATCTGC 5'-CTTCTTGCCTGATGCTGGAATAAGC

**Table S3.** Relative expression values with error calculations for the data presented in Figure 1A

Tissue	Relative expression values (+/- standard error measurement)													
	MCM2		MCM3		MCM4		MCM5		MCM6		MCM7		CYCB1;1	
cell culture	19.9 +/- 1.56		7.7 +/- 1.33		3.2 +/- 0.09		3.8 +/- 0.40		5.8 +/- 0.66		6.6 +/- 0.56		4.8 +/- 0.67	
seedling	1.0	0.06	1.0	0.17	1.0	0.03	1.0	0.10	1.0	0.06	1.0	0.11	1.0	0.17
shoot apex	3.6	0.29	4.8	0.86	3.3	0.15	3.2	0.27	3.1	0.24	5.0	0.52	5.0	0.73
elongating leaf	1.5	0.08	1.6	0.47	1.3	0.06	1.2	0.14	1.5	0.12	1.5	0.13	1.0	0.15
mature leaf	0.2	0.02	0.3	0.05	0.3	0.03	0.3	0.04	0.2	0.02	0.3	0.04	0.1	0.01
senescing leaf	0.3	0.03	0.2	0.04	0.2	0.03	0.3	0.03	0.2	0.03	0.3	0.04	0.1	0.02
cauline leaf (>2 cm)	0.3	0.05	0.3	0.05	0.3	0.01	0.3	0.02	0.2	0.02	0.4	0.04	0.1	0.02
cauline leaf (<1 cm)	0.8	0.07	0.8	0.14	0.7	0.02	0.5	0.07	0.4	0.03	0.9	0.08	0.6	0.08
flower bud	2.2	0.14	1.9	0.40	2.1	0.17	1.8	0.15	1.7	0.18	2.6	0.29	4.6	0.71
open flower	2.2	0.19	1.4	0.31	2.0	0.09	1.4	0.13	0.9	0.08	2.1	0.18	3.3	0.59
silique	0.3	0.05	0.3	0.09	1.1	0.12	0.5	0.04	0.3	0.04	1.3	0.14	1.1	0.16

**Table S4.** *MCM genes are coordinately expressed*

	Correlation coefficient (Correl. coef. excluding cell culture)						
	MCM2	MCM3	MCM4	MCM5	MCM6	MCM7	CYCB1;1
MCM2	1.00	0.91(0.95)	0.69(0.97)	0.82(0.98)	0.93(0.93)	0.85(0.96)	0.62(0.93)
MCM3		1.00	0.89(0.93)	0.97(0.99)	0.99(0.98)	0.98(0.97)	0.8(0.84)
MCM4			1.00	0.96(0.97)	0.87(0.91)	0.96(0.98)	0.96(0.95)
MCM5				1.00	0.96(0.98)	0.99(0.98)	0.9(0.91)
MCM6					1.00	0.96(0.94)	0.78(0.83)
MCM7						1.00	0.89(0.92)
CYCB1;1							1.00