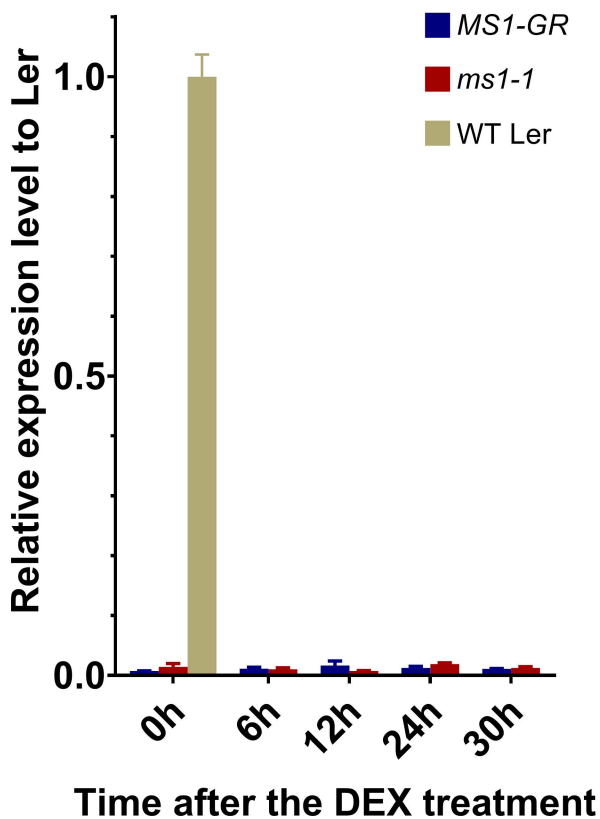
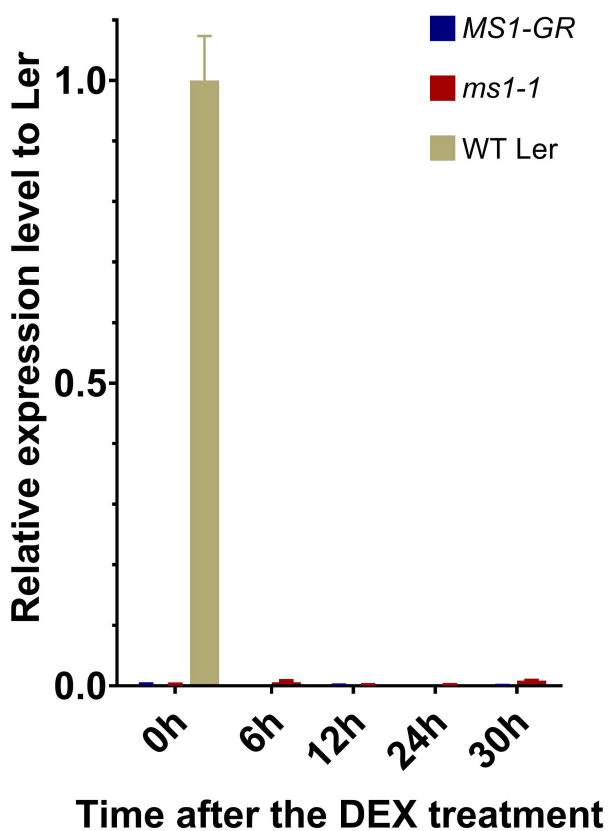


Caleosin



CRRSP18



CRRSP41

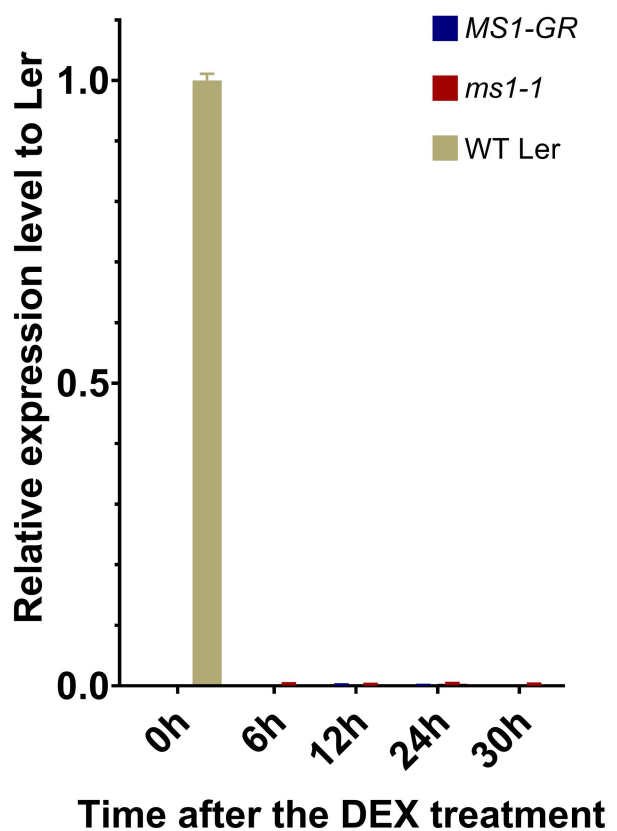


Figure S1. sPCP Genes that showed no significant up-regulation 30h post DEX induction in the MS1-GR line.

A time-course qRT-PCR detection of sPCP Caleosin and CRRSP18, 41 at 6, 12, 24 and 30 hours post DEX treatment in the transgenic line of pMS1:MS1-GR (*ms1-1* background) and the *ms1-1* mutant respectively. The expression data are presented in the same way as in Figure. 4.

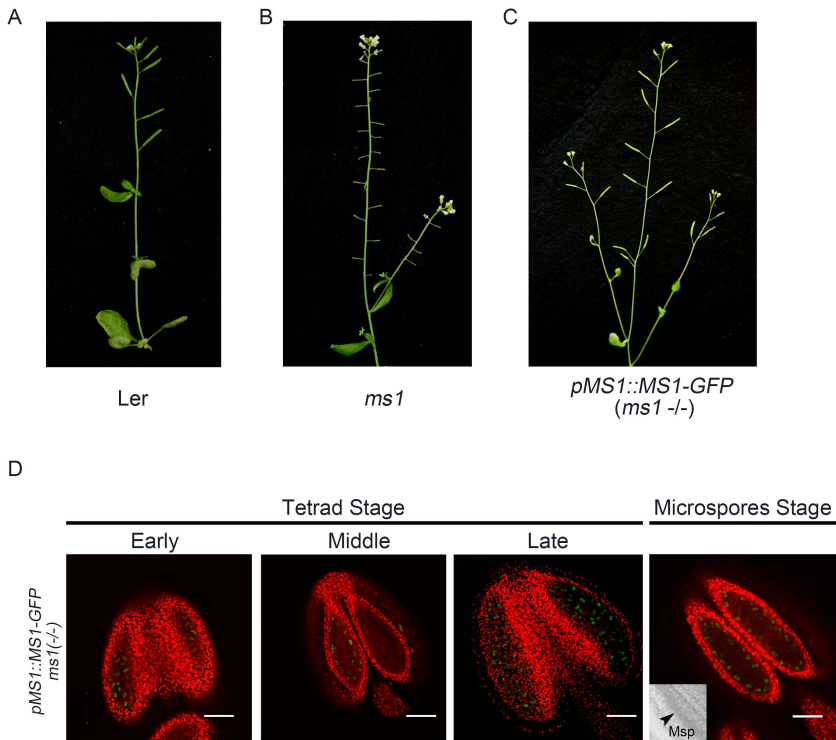


Figure S2. MS1 Expression in *pMS1::MS1-GFP* complementation plants.

(A)-(C) The phenotype of WT (*Ler-0*), *ms1-1*, *pMS1::MS1-GFP* complementation plant respectively and fluorescence confocal images of the MS1-GFP fusion proteins. The green channel shows the GFP expression (530 nm), and the red channel shows the chlorophyll autofluorescence (>560 nm). Bars = 50 μ m.

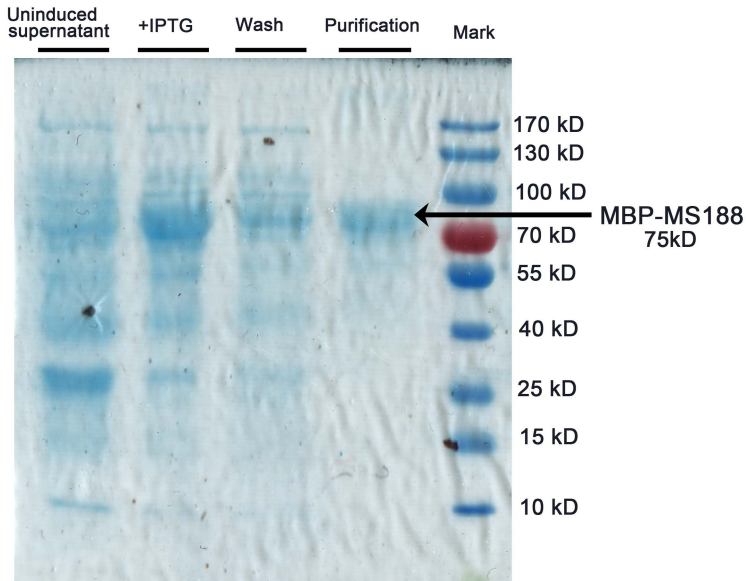


Figure S3. Expression and purification of the MS188 protein. The MS188 tagged with MBP of 76kD was induced and purified.

Table1 List of primers used in the study and their sequences

Primer	Sequence	Note
CONT F	CCAACCACA ACTCCATATTTGTT	For ChIP assays
CONT R	ATAGCTTGACGGCTAGACGCAC	For ChIP assays
Probe ^{MS1} F	TTAAGTAAATACCATTGCAATTTGC	For ChIP assays
Probe ^{MS1} R	GCATCTATTACATAACACACACGTG	For ChIP assays
Probe-1 ^{MS1} -Bio F	BIOTIN-TTAAGTAAATACCATTGCAATTTGC	For EMSA assays
Probe-1 ^{MS1} F	TTAAGTAAATACCATTGCAATTTGC	For EMSA assays
Probe-1 ^{MS1} R	CGGTTTAAAGAAAGTTTCAAATTAT	For EMSA assays
Probe-2 ^{MS1} -Bio F	BIOTIN-AATCGACTAAATTGAGTTTGT	For EMSA assays
Probe-2 ^{MS1} F	AATCGACTAAATTGAGTTTGT	For EMSA assays
Probe-2 ^{MS1} R	GCATCTATTACATAACACA	For EMSA assays
<i>GRP14</i> comF	CCGGAATTCAGGAAATAAGTCAAGTTGTTCC	For complementation assays
<i>GRP14</i> comR	CGCGGATCCCCATGTGGGTGGTGCAGCCGGTT	For complementation assays
<i>GRP17</i> comF	CGGGGTACCGGATGATCATATGGAGCAACTTG	For complementation assays
<i>GRP17</i> comR	AACTGCAGCTCCGCCATGTGGCCACCTCCA	For complementation assays
<i>GRP18</i> comF	CCGGAATTCAGAACAATGGTCAAGTTGTTCCAAC	For complementation assays
<i>GRP18</i> comR	CGCGGATCCCCATGTGGGTGGTGTACTTCCA	For complementation assays
<i>GRP19</i> comF	CGCGGATCCCAAGGATGCATGACGATATGGAAA	For complementation assays
<i>GRP19</i> comR	GCTCTAGAGACGCCGGAACCTGCTGGGTTAGA	For complementation assays
<i>EXL4</i> comF	CCGGAATTCATTA AAAACTATTTTCACGGC	For complementation assays
<i>EXL4</i> comR	CGCGGATCCGGCAAGGCCATTCTTGATATCCT	For complementation assays
<i>EXL6</i> comF	CGCGGATCCTTTCTTACAATGCTATTTTCATC	For complementation assays
<i>EXL6</i> comR	AACTGCAGGGCAAGGCCTTTCGCTATCTGATA	For complementation assays
<i>MS1</i> comF	AGAATTCGAAGTGACTGTAAGTACCCAAAG	For complementation assays
<i>MS1</i> comR	AGTCGACGGGTAAAAAAGAGAGAGGAATAAG	For complementation assays
MWD9 F	TAGGGTCGTGGTTGGTTG	For complementation assays
MWD9 R	CTGGCCTCTCTATCTGATAC	For complementation assays
<i>MS1</i> JD F	TCGTGGTGGAGTCAGTGGTGGGT	For complementation assays
<i>MS1</i> JD R	TGGGTGCTCAGGTAGTGGTTGTCG	For complementation assays
<i>MS188</i> -PMAL F	GTCGACATGGGTTCGGATTCCATGTTGT	For protein expression
<i>MS188</i> -PMAL R	CTGCAGTCAAACCATATGATTGATGAGATCA	For protein expression
<i>GRP14</i> QPCR F	CCACGGCATTAACCATAACCACA	Primers of qPCR assays
<i>GRP14</i> QPCR R	CAAATCTCCTACGCCGAACCTA	Primers of qPCR assays

<i>GRP16</i> QPCR F	TTGTCATCTTCAGTCCGATTCTCG	Primers of qPCR assays
<i>GRP16</i> QPCR R	CCCGGTTGATCTGCTTTGGTTGG	Primers of qPCR assays
<i>GRP17</i> QPCR F	TAATCTTCGTGCGGTTTCGCTGTG	Primers of qPCR assays
<i>GRP17</i> QPCR R	TCCTTCGGCTTTACTCCCATCCT	Primers of qPCR assays
<i>GRP18</i> QPCR F	CCACGGCATTAAACCATAACAACAC	Primers of qPCR assays
<i>GRP18</i> QPCR R	GCAGTCGGCTTAGCTCCCATCCT	Primers of qPCR assays
<i>GRP19</i> QPCR F	AGTGGTCGCATGTATCATAAGCA	Primers of qPCR assays
<i>GRP19</i> QPCR R	GTAGGTCCTCCCTGTACGTTTC	Primers of qPCR assays
<i>EXL4</i> QPCR F	CAGTACAACGGAAAATTGAGGAG	Primers of qPCR assays
<i>EXL4</i> QPCR R	CGTAATCATAACAACAACCCAT	Primers of qPCR assays
<i>EXL6</i> QPCR F	CGGTACTCTTATGGATCTTGTC	Primers of qPCR assays
<i>EXL6</i> QPCR R	ATATTACTTCGTAGGCTTTCTGG	Primers of qPCR assays
<i>CRRSP18</i> QPCR F	CATCACCTACCAGTGCCGTATCGA	Primers of qPCR assays
<i>CRRSP18</i> QPCR R	GATCTGCCCAGAAGTATCTAACG	Primers of qPCR assays
<i>CRRSP41</i> QPCR F	CCCTTGCAATTAGCACCGCGTCTC	Primers of qPCR assays
<i>CRRSP41</i> QPCR R	TCACTCATGTTGTTTGGGTTGGA	Primers of qPCR assays
<i>Caleosin</i> QPCR F	AAATTCGAGGAAATATTCAACAAG	Primers of qPCR assays
<i>Caleosin</i> QPCR R	GGAAAAGGCTACCATCGTAGATG	Primers of qPCR assays
<i>MS1</i> QPCR F	TGTCCTTCACGGCTTCTTTC	Primers of qPCR assays
<i>MS1</i> QPCR R	CGCGTCATTCAACCCTATTT	Primers of qPCR assays
<i>β-tubulin</i> QPCR F	GACACTACACTGAAGGTGCTGAG	Primers of qPCR assays
<i>β-tubulin</i> QPCR R	AAGCTGATGAACAGAGAGAGTTG	Primers of qPCR assays
<i>MS1</i> RT-PCR F	ACGGATTTGGTCACTTGCTC	Primers of RT-PCR assays
<i>MS1</i> RT-PCR R	CTCGGTTAAGGCTGGTTAGG	Primers of RT-PCR assays
<i>β-tubulin</i> RT-PCR F	GGACACTACACTGAAGGTGCTGAG	Primers of RT-PCR assays
<i>β-tubulin</i> RT-PCR R	CAAGCTGATGAACAGAGAGAGTTG	Primers of RT-PCR assays
<i>GRP14</i> RT-PCR F	GTGGTTATTGCTGCCGTGGTCTC	Primers of RT-PCR assays
<i>GRP14</i> RT-PCR R	TTTCGCCTCCTCCTAATCCTCCA	Primers of RT-PCR assays
<i>GRP16</i> RT-PCR F	TTATCGCTGCCGTAGCATCTGTA	Primers of RT-PCR assays
<i>GRP16</i> RT-PCR R	TCCTCCCGGTTTATCTCCTCCTC	Primers of RT-PCR assays
<i>GRP17</i> RT-PCR F	TAATCTTCGTGCGGTTTCGCTGTG	Primers of RT-PCR assays
<i>GRP17</i> RT-PCR R	CCTTCGGACTTACCGCCTTTACC	Primers of RT-PCR assays
<i>GRP18</i> RT-PCR F	GCTACCGTGGTCTCCATAGTCTTCTT	Primers of RT-PCR assays
<i>GRP18</i> RT-PCR R	CCTGGTTTATTTCCGAATGTTCCA	Primers of RT-PCR assays
<i>GRP19</i> RT-PCR F	GTTTGAGATTATTCAGGCGGTCTTC	Primers of RT-PCR assays

<i>CRRSP41</i> QPCR-DEX F	TCCACAGTGTTGTGACGGTAAACG	For DEX induction assays
<i>CRRSP41</i> QPCR-DEX R	GGAGCTCTCATTGTACTGTTGCTG	For DEX induction assays
<i>ATA27/BGLU20</i> QPCR-DEX F	ATTCTCTCGTGGACTGGGAACC	For DEX induction assays
<i>ATA27/BGLU20</i> QPCR-DEX R	AGAGGCTCCTCAAACCCTTTGC	For DEX induction assays
<i>MYB99</i> QPCR-DEX F	CATGCTCGCCTTGGAATAGATG	For DEX induction assays
<i>MYB99</i> QPCR-DEX R	GTCTGTTCTTCTGGTAACTCCAC	For DEX induction assays
<i>ProMS188</i> F	CGAGCTCAAGTTGTGTTTTTCCCAAGTCA	For rescue transgenic assay
<i>ProMS188</i> R	TCCCCCGGGTTCTTCTTTCTTTCTTAGTTTTT	For rescue transgenic assay
<i>MS1</i> Genomic F	TCCCCCGGGATGGCGAATCTGATTCGAA	For rescue transgenic assay
<i>MS1</i> Genomic R	ACGCGTCGACTTAGGGTAAAAAAGAGAGAGGAA	For rescue transgenic assay
<i>Pro MS1</i> LUCF	AACTGCAGCCGCTACTGGCAATTTCAAT	Transient activating assays
<i>Pro MS1</i> LUCR	CGGGATCCCGAATCAGAAATTTGGTTTGATC	Transient activating assays
<i>MS188</i> Overexpress F	GCTCTAGAATGGGTCGGATTCCATGTT	Transient activating assays
<i>MS188</i> Overexpress R	ACGCGTCGACAACCATATGATTGATGAGATCATCA	Transient activating assays
