**Table S2.-** Other oligonucleotide sets used in this work

| Purpose | Template | Oligonucleotide sequences (5'→ 3') | |
|---|---|---|---|
| Candidate gene sequencing | *AGO10* | TTCAAGATTAGCAAACAGTATCTG | CCACTAACAGTACCGCGAAC |
| | *AGO10* | AACAACAACATTTTTTACTTCACTG | CAGTGTAAAGACTTTTCCGGC |
| | *AGO10* | GTGTCATCAAAGAGTGTTAACAG | ACTGACTTCATAGTACAGTTCTC |
| | *AGO10* | GAAGGAAATACCGTGTTGCGGG | TTTCTCGACTTGATCGGGCC |
| | *AGO10* | TCATTTAGAAAAGCAACAGGGC | AAACATTGGTAAATCTAAAGCCG |
| | At5g58420 | ACCCATAAATCCCAGAACCCG | ATGAAACCAGCAGGGTAGGTC |
| | At5g58420 | CATCTGAAGAGGCTTAATGCG | TAGTAAAAAACAAGAGAGGACAC |
| | At5g58430 | ATTTTCAAACAACGCGGCCAGG | ACTTTAAACAATCTCTCAGGCG |
| | At5g58430 | GTTTCCTAGCGAACGTAGACTC | ACAATGACAAAAAAAGTGATCCAG |
| | At5g58440 | CCATAGTCCCCACCTGCGC | TCCTTGAATAATCTCAGCAGATC |
| | At5g58440 | GTGTTTCTTCAGGTGCAAGGG | TTGTCACCACCAAATACCTTCG |
| | At5g58440 | GATGATGGCTGTCCAAGGCG | GGAAACAATGGGTATGAGGGC |
| | At5g58450 | GTTGGAGAGTGTTGACATGGC | AATTCTTCTTTTATACGTGTGCAC |
| | At5g58450 | GGAAAACAGATGAGGCACTCTC | GATATAGAAACAATCGAATGACC |
| | At5g58450 | ACACAAACTCTCTCACTTTAAGC | CTTAGAAAGAGAAAGATTTTGGC |
| | At5g58450 | GGCTTCCTACAGACGGTGTG | TCCTCAAAGCTGTCTGCGTTC |
| | At5g58450 | CCATATCCCTGTGGGCAACC | CTGAACCAAGACCTGGACATC |
| | At5g58450 | ACTGGCATGTGTTGAACTCCC | AGTGAGAAACCAGATGGGTGG |
| | At5g58460 | ATCAATCATGGATCTATCGCC | AAACAAGCGGCCATGATAGC |
| | At5g58460 | ATAGGAAAGTTCGCCATGTCAG | GTTTAAATGCGCTCTGCACTTG |
| | At5g58460 | TCTGTATTCGCAATTCAGCTAG | CAAAACAATCCCCAATAATACAG |
| | At5g58465 | CTTGTCTAACCGGTGACTAGC | TTACATGCAAATAATAAACTTACCC |
| | At5g58470 | ATAAAGTTCCACTATTTTTGAGAG | TTCCCTCTGACTACCACTACC |
| | At5g58470 | TAGAAACGATAGTGGTAGGAGC | CTCTGGTCAAAGGTAGGAGC |
| | At5g58470 | TCTGCAGGCGGCTTTTTCAAC | ATATGGACGAGACCGGTTTCC |

**Table S2.-** Other oligonucleotide sets used in this work

| Purpose | Template | Oligonucleotide sequences (5'→ 3') | |
|---|---|---|---|
| Candidate gene sequencing | At5g58470 | TAGAGGAGGAGGAGGTGGTG | CTTGGGATTTTCGGCATTAGTC |
| | At5g58480 | ATAACAGTGAGATGCTGAGTCG | ATAATCATCTAACCTTTACGAAGG |
| | At5g58480 | TTATGGAATGTGAATGAGTCGG | ATAATCATCTAACCTTTACGAAGG |
| | At5g58490 | GAGGAGGAGGAGAAACAGCC | GTCTTCGACAGTGGATACCAC |
| | At5g58490 | CCAAGTCCCAACTGGCCTGC | CAAACTTTAAAGAAAAATCTCAGAG |
| | At5g58495 | CTATCCCAATTACAATGTCCCC | AAAAACAAAAAATAATAGTGGGTGG |
| | At5g58500 | AACTTGTTGCTTCTGACTTGTG | CGTTAGACCCGAGACTTCGC |
| | At5g58530 | CACTTTTTTATTAACCAGCCCTC | TAATGATTTGTTTTTTCTTTCGACG |
| | At5g58570 | TCGGTTATGGGAGCCACACG | TTACATCGAGGATAGCGGGG |
| | At5g58600 | CCTTCACATCTTTAGCAATGTTG | GTGAAAGACCAGAAATCAAACAC |
| | At5g58600 | ATTGGTAATGAGGTTCGATTTCG | AGTTTCGACCCAATACGCCC |
| | At5g58600 | CTTATTACCAAGACATGGACCG | CTTTTTTCCAATAAGCCCATCG |
| | At5g58650 | CCGCCTTCTTAGCTGACACG | GCTGGAACCTTTCCGTGAAG |
| | At5g58670 | CAACGGTTCTGTTTTCAGTCAG | AATGATCCCCCAAACGTCTTAC |
| | At5g58670 | CTGCAGAAATGTCTTAACGTGG | ATCTAAAGGAAAGTCCATATTCC |
| | At5g58670 | CTGCAGAAATGTCTTAACGTGG | GTCATACGTTTCATAATTTTGCTG |
| | At5g58680 | TTCTCTCTTTCTCTGCAGTTGC | TGTCTTGTTAGTTCTATAGGG |
| | At5g58680 | ATGATTGTTTCTTCCGGTGCGG | TGTCTTGTTAGTTCTATAGGG |
| | At5g58700 | TAGTATGTTATTTATGGGGAGGG | CTTTGATCAAACTAAATTTAGGCC |
| | At5g58700 | TAAAGATTGAGATTGAAAGATTACG | CAAATGTCTGAGTTATCATCTGC |
| | At5g58700 | CAGTTTAAAGTTGCTAAGGTTTTC | TCTGCCATACCCCTACATTTAC |
| | At5g58700 | ATTTCGTGTATCGTCATCCAGG | TAAGATGAGAGATGCTTATTAATG |
| | At5g58740 | GTTAGAAACGGAGTGTACCTC | TCTTCTTGAAACCTCTGGAGC |
| | At5g58740 | GCACATTACCCTGCAGAAGAG | CTCAGTGGACTTTTAGTAGATG |
| | At5g58750 | GTTGCTTCGTTATGCTACATCG | GAATCAGAGCCATCTATGTAAC |

**Table S2.-** Other oligonucleotide sets used in this work

| Purpose | Template | Oligonucleotide sequences (5'→ 3') | |
|---|---|---|---|
| Candidate gene sequencing | At5g58750 | AGAAGATCACTCGTAGTTCCG | CATTCACATTTGTTCGGACGCG |
| | At5g58760 | CGTGAATGGTGCTTCCGGCC | TGCACAATGAACTTGATCCGGG |
| | At5g58760 | ACTCCAACCGAGAATTCCTCC | CTACTCGTTTGTGTGCAAGATC |
| | At5g58760 | GAGCTTCTTCTCAGTTGTGGG | AAAAAAGAAGCAAAATTGCCGCC |
| | At5g58770 | ATCATCTTCTTCCACACCGAC | CTCAACTTCGATTTCGCCATC |
| | At5g58770 | ATCATCTTCTTCCACACCGAC | CCTGGTTTCGTATCAGCGCC |
| | At5g58780 | TACAAGTTTAATACGTACGGCC | CTCAATTGAGTTGTACTTTATACC |
| | At5g58780 | TACAAGTTTAATACGTACGGCC | ATTTGTTTTAGTGATAAGTAACGAC |
| | At5g58782 | AAGGTTTCCAAAACTGCGAGAG | GATTATCTTTGTCCAGCTCAAAG |
| | At5g58784 | AATACGATGATGAGGAAGAAAGG | TTTTGTGTTGATTGAGCCAGCC |
| | At5g58800 | CATTTGTTTGACTAAATTATCCC | TAATGATGTAGAGGATAAATAGGG |
| | At5g58800 | CAAAGAGTTTTTGTTGTCAGTAAC | TAATGATGTAGAGGATAAATAGGG |
| | *FAS2* | AAACCATATACGAACACTAATAAG | GATCCATCAGGTGACCATGAC |
| | *FAS2* | AGCTATGGTTGATAAATTCGGG | GATCCATCAGGTGACCATGAC |
| | *FAS2* | TATTTCTGGCTCAGTGGACAAC | GGTGTTGTTTCTGTCATTAGTTC |
| | *FAS2* | CGTCTTTCTTTCGAAGATTGTC | GTTAAAGATCAACACAACATCCC |
| GUS assays | *TCU2* | *GGGGACAAGTTTGTACAAAAAAGCAGGCT*CCCATCCA ACATCCGAGAGG[a] | *GGGGACCACTTTGTACAAGAAAGCTGGGT*ACATCAAAAG ACTCGGTTCCAG[b] |
| | pMDC164 | AAGACTGTAACCACGCGTCTG | TTGACTGCCTCTTCGCTGTAC |
| Subcellular localization | *TCU2* | *GGGGACAAGTTTGTACAAAAAAGCAGGCT*ATGCGCA GGTGGGGACTATG[a] | *GGGGACCACTTTGTACAAGAAAGCTGGGT*AACATGGGAC ATCTGTTGCTTG[b] |
| | pMDC85 | TTCATTTGGAGAGGACCTCG | TATGTTGCATCACCTTCACCCT |

[a,b]These oligonucleotides include at their 5´ends the [a]attB1 and [b]attB2 sequences, which are shown in italics.