

Table S1. Genes with altered expression in *msi1-tap1* plants

| Probeset ID | AGI ID | Annotation |
|----------------------|-----------|---|
| Downregulated | | |
| 245437_at | At4g16630 | putative DEAD/DEAH box RNA helicase |
| 246476_at | At5g16730 | putative protein |
| 246703_at | At5g28080 | mitogen activated protein kinase-like |
| 247853_at | At5g58140 | non phototropic hypocotyl 1-like |
| 248394_at | At5g52070 | unknown protein |
| 249271_at | At5g41790 | myosin heavy chain-like protein |
| 254001_at | At4g26260 | putative protein |
| 255160_at | At4g07820 | putative pathogenesis-related protein |
| 256940_at | At3g30720 | unknown protein |
| 257638_at | At3g25830 | putative myrcene/ocimene synthase |
| 258736_at | At3g05900 | unknown protein |
| 260824_at | At1g06720 | unknown protein |
| 262204_at | At2g01100 | expressed protein |
| 264267_at | At1g60210 | hypothetical protein |
| 264923_s_at | At1g60740 | putative peroxiredoxin |
| 265536_at | At2g15880 | unknown protein |
| 266711_at | At2g46740 | hypothetical protein |
| 267509_at | At2g45660 | SOC1 (AGL20) |
| Upregulated | | |
| 256597_at | At3g28500 | putative acidic ribosomal protein P2b |
| 253301_at | At4g33720 | pathogenesis-related protein 1 precursor |
| 254907_at | At4g11190 | disease resistance response protein family |
| 247640_at | At5g60610 | putative protein |
| 249052_at | At5g44420 | putative plant defensin protein (PDF1.2a) |
| 247463_at | At5g62210 | embryo-specific protein-like |
| 251535_at | At3g58540 | expressed protein |
| 249082_at | At5g44120 | legumin-like protein |
| 247717_at | At5g59320 | nonspecific lipid-transfer protein |
| 257365_x_at | At2g26020 | putative plant defensin protein (PDF1.2b) |
| 248048_at | At5g56080 | putative nicotianamine synthase |
| 258618_at | At3g02885 | expressed protein |
| 245928_s_at | At5g24780 | vegetative storage protein Vsp1 |
| 254232_at | At4g23600 | tyrosine transaminase like protein |
| 256781_at | At3g13650 | disease resistance responseprotein-related |
| 258675_at | At3g08770 | putative nonspecific lipid-transfer protein |
| 255621_at | At4g01390 | hypothetical protein |
| 267256_s_at | At2g23000 | putative serine carboxypeptidase I |
| 251566_at | At3g58210 | putative protein |
| 258952_at | At3g01410 | putative RNase H |
| 265611_at | At2g25510 | expressed protein |
| 248125_at | At5g54740 | 2S storage protein-like |
| 247858_at | At5g58220 | similar to unknown protein |
| 254687_at | At4g13770 | cytochrome p450 family |
| 260560_at | At2g43590 | glycosyl hydrolase family 19 (chitinase) |
| 257021_at | At3g19710 | putative branched-chain amino acid aminotransferase |
| 248060_at | At5g55560 | putative protein |
| 258791_at | At3g04720 | hevein-like protein precursor (PR-4) |
| 251065_at | At5g01870 | lipid-transfer protein-like |
| 256766_at | At3g22231 | expressed protein |
| 256600_at | At3g14850 | hypothetical protein |
| 266393_at | At2g41260 | late embryogenesis abundant M17 protein |
| 253767_at | At4g28520 | 12S cruciferin seed storage protein |
| 246149_at | At5g19890 | peroxidase, putative |
| 266326_at | At2g46650 | putative cytochrome b5 |
| 259561_at | At1g21250 | wall-associated kinase 1 |
| 259640_at | At1g52400 | beta-glucosidase (BG1) |
| 248625_at | At5g48880 | 3-keto-acyl-CoA thiolase 2 |
| 252607_at | At3g44990 | putative hypothetical protein |
| 258008_at | At3g19430 | putative late embryogenesis abundant protein |
| 256832_at | At3g22880 | meiotic recombination protein (AtDMC1) |
| 260745_at | At1g78370 | putative glutathione transferase |
| 251524_at | At3g58990 | 3-isopropylmalate dehydratase-like protein |
| 265329_at | At2g18450 | putative succinate dehydrogenase flavoprotein |
| 249955_at | At5g18840 | sugar transporter-like protein |
| 255110_at | At4g08770 | putative peroxidase |
| 253627_at | At4g30650 | low temperature and salt responsive protein homolog |
| 256243_at | At3g12500 | glycosyl hydrolase family 19 (basic endochitinase) |
| 266395_at | At2g43100 | 3-isopropylmalate dehydratase |

| | | |
|-------------|-----------|---|
| 254914_at | At4g11290 | putative peroxidase |
| 250832_at | At5g04950 | putative nicotianamine synthase |
| 262213_at | At1g74870 | hypothetical protein |
| 249364_at | At5g40590 | putative CHP-rich zinc finger protein |
| 259842_at | At1g73600 | putative phosphoethanolamine N-methyltransferase |
| 260955_at | At1g06000 | glycosyltransferase family |
| 261691_at | At1g50060 | branched-chain amino acid aminotransferase |
| 253753_at | At4g29030 | glycine-rich protein like |
| 260234_at | At1g74460 | putative lipase/acylhydrolase |
| 254314_at | At4g22470 | Extensin-like protein |
| 257924_at | At3g23190 | unknown protein |
| 258380_at | At3g16650 | PP1/PP2A phosphatases pleiotropic regulator PRL2 |
| 260349_at | At1g69400 | mitotic checkpoint protein |
| 254100_at | At4g25020 | expressed protein |
| 253720_at | At4g29270 | acid phosphatase-like protein |
| 250541_at | At5g09520 | surface protein PspC-related |
| 249866_at | At5g23010 | 2-isopropylmalate synthase-like |
| 261368_at | At1g53070 | putative protein kinase |
| 258327_at | At3g22640 | expressed protein |
| 247615_at | At5g60250 | putative protein |
| 258670_at | At3g08810 | unknown protein |
| 251928_at | At3g53980 | putative protein |
| 250794_at | At5g05270 | similar to chalcone-flavonone isomerase |
| 251255_at | At3g62280 | putative protein |
| 259655_at | At1g55210 | disease resistance responseprotein-related |
| 253815_at | At4g28250 | beta-expansin pollen allergen protein |
| 247814_at | At5g58310 | polyneuridine aldehyde esterase-like |
| 250302_at | At5g11920 | glycosyl hydrolase family 32 |
| 247727_at | At5g59490 | putative ripening-related protein-like |
| 249061_at | At5g44550 | putative protein |
| 250533_at | At5g08640 | flavonol synthase 1 (FLS1) |
| 248015_at | At5g56370 | F-box protein |
| 265334_at | At2g18370 | putative lipid transfer protein |
| 263034_at | At1g24020 | Bet v I allergen family |
| 264931_at | At1g60590 | putative polygalacturonase |
| 250207_at | At5g13930 | chalcone synthase (naringenin-chalcone synthase) |
| 253946_at | At4g26790 | putative APG protein |
| 259736_at | At1g64390 | glycosyl hydrolase family 9 (endo-1,4-beta-glucanase) |
| 248752_at | At5g47600 | unknown protein |
| 256409_at | At1g66620 | hypothetical protein |
| 251238_at | At3g62430 | putative protein |
| 261221_at | At1g19960 | hypothetical protein |
| 265846_at | At2g35770 | putative serine carboxypeptidase II |
| 248178_at | At5g54370 | root cap protein 2-like protein |
| 252123_at | At3g51240 | flavanone 3-hydroxylase (F3H) |
| 249848_at | At5g23220 | putative protein; similar to unknown protein |
| 266184_s_at | At2g38940 | phosphate transporter (AtPT2) |
| 246310_at | At3g51895 | sulfate transporter ATST1 |
| 256217_at | At1g56320 | hypothetical protein |
| 245367_at | At4g16265 | Expressed protein |
| 257173_at | At3g23810 | putative S-adenosyl-L-homocysteinase |
| 263264_at | At2g38810 | histone H2A |
| 265441_at | At2g20870 | expressed protein |
| 259478_at | At1g18980 | putative germin |
| 254109_at | At4g25240 | pectinesterase (pectin methylesterase) family |
| 263535_at | At2g24970 | expressed protein |
| 265355_at | At2g16760 | expressed protein |

Table S2. Sequences of oligonucleotides used for cloning

| Gene | Forward primer | Reverse primer |
|------------------------|---|--|
| <i>TAP</i> | GATCTAAGAGAAGATGGAAGAAAAATT-TT- ATAGCTGTAAGCGCTGCAAATAGGTTCAA- GAAAATTCTTCAGGAGCACT CTAGTTAAGGCTGCAGTTCAACTCACC- CTGAAAATAGAGGTTTCACTCGCTGTGG- TTGGGATATCGTAATCAAGTGCTCC | TGATTACGATATCCCAACCACAGCGA- GTGAAAACCTCTATTTCAAGGGTGAG- TTGAAAAC TG CAG CTT AA TGAAGAAATTCTTGAACCTATTG- CAGCGCTTACAGCTATAAAATTTC- TTCCATCTTCTCTTA |
| <i>MSI1</i> (promoter) | CGGGATCCAGGTTGGAATCGACCAAGA | GGACTAGTCATGTCGACCGATGTCTT- TGTTATTCCCG |
| <i>MSI1</i> (cDNA) | CGGTCGACATGGGGAAAGACGAAGAGGAA | GACCATGGAAAGAAGCTTTGATGGT- TCTTC |
| <i>SOC1</i> (cDNA) | CACCATGGTGAGGGGCAAAACTCAG | TCACTTCTTGAAGAACAAAGGTAAC |

Table S3. Sequences of oligonucleotides used for RT-PCR

| Gene | Forward primer | Reverse primer |
|---------------------------------|------------------------------|------------------------|
| <i>MSI1</i> | GACCATGGGGAAAGACGAAGAGGAAATG | GATGCCATGCAACATCTTCCAC |
| <i>MSI4</i> | ACGAAGGTTGAAAAAGCGCA | CGATCAAACAACCGGACAGTG |
| <i>FLC</i> | GCGAATTGAGAACAAAAGTAGCC | TAGTCACGGAGAGGGCAGTC |
| <i>FT</i> | AGACCCTCTTATAGTAAGCAGAG | TACACTGTTGCCTGCCAAG |
| <i>FLMα</i> | CAACATGCTGATGAACCTAGAGC | TCGGTGAGACATACTTCTTC |
| <i>FLMβ</i> | CAACATGCTGATGAACCTAGAGC | TTTGTTGCCGGAGCTACTT |
| <i>FLMγ</i> | GTTCAAGCCGGAGAACCTC | TCGGTGAGACATACTTCTTC |
| <i>FLMδ</i> | GTTCAAGCCGGAGAACCTC | TTTGTTGCCGGAGCTACTT |
| <i>SOC1</i> | AGCTCTCAGTGCTTGTGATGC | TTGACCAAACTTCGCTTCA |
| <i>STM</i> | AATAGTGATGGTCCGATGTG | TGGAGAGCTCTGCTCATAC |
| <i>GAPDHα</i> | ATGGCTTCGGTTACTTCTCTGTC | TTCTTGGCACCAAGCTTCAAT |
| <i>PFK</i> | CCGGAATTCGATCAATCCT | GCCACGAAAACCAAACAGAC |

Table S4. Sequences of oligonucleotides used for chromatin immunoprecipitation assays

| Fragment | Forward primer | Reverse primer |
|----------|----------------------|--------------------------|
| SOC1-I | ATCCTCGAAAGCTTCCTCCT | TTGTTGGGTGGGAGAAGAC |
| SOC1-II | ATTGCCAGCTCCAAGTACG | AATTGGCTACGAAAGAGCACA |
| SOC1-III | TGTGCTTTCGTAGCCAATT | TCTGAAACATCTGATCAAAAGCTG |
| SOC1-IV | CATTGGTCCATTGGGAAA | GTTTGGTGCTGACTCGATCC |
| SOC1-V | AGCTGCAGAAAACGAGAACG | TTGACCAAACTCGCTTTCA |
| PFK | CCGGAATTCGATCAATCCT | GCCACGAAAACCAAACAGAC |