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|  | **GO-Terms** | **#Seqs** | **Gene name** |
| **Biological process** | cellular metabolic process | 38 | PMADS2, OAS, GAI1, SPA, SOC1, SVP, IAA27, CSTF77, BEE1, SEP4, IAA9, SEP2, SEP3, SEP1, FUL, AGL24, CUC2, CUC1, AP3\_3, AP1, AP2, PHYB, PHYA, AG, LAC2, EIN3, CSTF64, AP3\_2, CAL, AP3\_1, VIP5, VIP6, SEP2\_2, PI, PBL9, SEP3\_2, VIP3, VIP4 |
| organic substance metabolic process | 38 | OAS, PMADS2, GAI1, SPA, SOC1, SVP, IAA27, CSTF77, BEE1, SEP4, IAA9, SEP2, SEP3, SEP1, FUL, AGL24, CUC2, CUC1, AP3\_3, AP1, AP2, PHYB, PHYA, AG, LAC2, EIN3, CSTF64, AP3\_2, CAL, AP3\_1, VIP5, VIP6, SEP2\_2, PI, PBL9, SEP3\_2, VIP3, VIP4 |
| primary metabolic process | 37 | PMADS2, OAS, GAI1, SPA, SOC1, SVP, IAA27, CSTF77, BEE1, SEP4, IAA9, SEP2, SEP3, SEP1, FUL, AGL24, CUC2, CUC1, AP3\_3, AP1, AP2, PHYB, PHYA, AG, EIN3, CSTF64, AP3\_2, CAL, AP3\_1, VIP5, VIP6, SEP2\_2, PI, PBL9, SEP3\_2, VIP3, VIP4 |
| nitrogen compound metabolic process | 36 | PMADS2, GAI1, SPA, SOC1, SVP, IAA27, CSTF77, BEE1, SEP4, IAA9, SEP2, SEP3, SEP1, FUL, AGL24, CUC2, CUC1, AP3\_3, AP1, AP2, PHYB, PHYA, AG, EIN3, CSTF64, AP3\_2, CAL, AP3\_1, VIP5, VIP6, SEP2\_2, PI, PBL9, SEP3\_2, VIP3, VIP4 |
| regulation of cellular process | 34 | PMADS2, GAI1, SOC1, SVP, IAA27, CSTF77, BEE1, SEP4, IAA9, SEP2, COP1, SEP3, SEP1, FUL, AGL24, CUC2, CUC1, AP3\_3, AP1, AP2, PHYB, PHYA, AG, EIN3, AP3\_2, CAL, AP3\_1, VIP5, VIP6, SEP2\_2, CRY1, PI, PIN1, SEP3\_2 |
| biosynthetic process | 34 | PMADS2, OAS, GAI1, SOC1, SVP, IAA27, CSTF77, BEE1, SEP4, IAA9, SEP2, SEP3, SEP1, FUL, AGL24, CUC2, CUC1, AP3\_3, AP1, AP2, PHYB, PHYA, AG, EIN3, AP3\_2, CAL, AP3\_1, VIP5, VIP6, SEP2\_2, PI, SEP3\_2, VIP3, VIP4 |
| regulation of metabolic process | 32 | PMADS2, GAI1, SOC1, SVP, IAA27, CSTF77, BEE1, SEP4, IAA9, SEP2, SEP3, SEP1, FUL, AGL24, CUC2, CUC1, AP3\_3, AP1, AP2, PHYB, PHYA, AG, EIN3, AP3\_2, CAL, AP3\_1, VIP5, VIP6, SEP2\_2, PI, SEP3\_2, VIP3 |
| positive regulation of metabolic process | 20 | PMADS2, AP3\_3, AP1, AG, SOC1, SVP, AP3\_2, CAL, AP3\_1, SEP4, VIP5, SEP2, SEP3, SEP2\_2, SEP1, PI, SEP3\_2, FUL, AGL24, VIP3 |

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|  | **GO-Terms** | **#Seqs** | **Gene name** |
| **Molecular function** | organic cyclic compound binding | 42 | PMADS2, SPA, CYP450\_CYP72A219, SOC1, SVP, CSTF77, MYB33, SEP4, SEP2, SEP3, SEP1, P450\_86B1\_like, WIP2, FUL, AGL24, MYB35, CUC2, CUC1, AP3\_3, SPL3, AP1, AP2, SPL1, AG, MYB80, LMI2, EIN3, CSTF64, AP3\_2, SUP, CAL, AP3\_1, VIP5, MYB44, SEP2\_2, VRN1, MYB61, PI, PBL9, MYB5, SEP3\_2, MYB26 |
| heterocyclic compound binding | 42 | PMADS2, SPA, CYP450\_CYP72A219, SOC1, SVP, CSTF77, MYB33, SEP4, SEP2, SEP3, SEP1, P450\_86B1\_like, WIP2, FUL, AGL24, MYB35, CUC2, CUC1, AP3\_3, SPL3, AP1, AP2, SPL1, AG, MYB80, LMI2, EIN3, CSTF64, AP3\_2, SUP, CAL, AP3\_1, VIP5, MYB44, SEP2\_2, VRN1, MYB61, PI, PBL9, MYB5, SEP3\_2, MYB26 |
| protein binding | 22 | PMADS2, AP3\_3, AP1, PHYB, PHYA, AG, ILR3, SOC1, SVP, AP3\_2, CAL, AP3\_1, SEP4, BEE1, SEP2, SEP3, SEP2\_2, SEP1, PI, SEP3\_2, FUL, AGL24 |
| DNA-binding transcription factor activity | 20 | PMADS2, AP3\_3, AP1, AP2, AG, EIN3, SOC1, SVP, AP3\_2, CAL, AP3\_1, SEP4, SEP2, SEP3, SEP2\_2, SEP1, PI, SEP3\_2, FUL, AGL24 |
| ion binding | 18 | Seq79, SPL3, GA2ox8, GA2ox1, SPL1, SPA, ACA7, COL9, GA2ox3, LAC2, COL4, CYP450\_CYP72A219, CO, FT, TFL1, PBL9, P450\_86B1\_like, GA3ox1 |
| oxidoreductase activity | 7 | GA2ox8, GA2ox1, GA2ox3, LAC2, P450\_86B1\_like, GA3ox1, CYP450\_CYP72A219 |

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|  | **GO-Terms** | **#Seqs** |  |
| **Cellular component** | intracellular organelle | 45 | PMADS2, SYN\_112, GAI1, COL9, COL4, SOC1, SVP, IAA27, CSTF77, SEP4, MYB33, SEP2, IAA9, SEP3, SEP1, FUL, AGL24, MYB35, CUC2, CUC1, Seq79, AP3\_3, SPL3, AP1, AP2, SPL1, AG, MYB80, LMI2, EIN3, CO, AP3\_2, CAL, AP3\_1, MYB44, VIP5, SEP2\_2, VRN1, MYB61, PI, SEP3\_2, MYB5, MYB26, VIP3, VIP4 |
| membrane-bounded organelle | 45 | PMADS2, SYN\_112, GAI1, COL9, COL4, SOC1, SVP, IAA27, CSTF77, SEP4, MYB33, SEP2, IAA9, SEP3, SEP1, FUL, AGL24, MYB35, CUC2, CUC1, Seq79, AP3\_3, SPL3, AP1, AP2, SPL1, AG, MYB80, LMI2, EIN3, CO, AP3\_2, CAL, AP3\_1, MYB44, VIP5, SEP2\_2, VRN1, MYB61, PI, SEP3\_2, MYB5, MYB26, VIP3, VIP4 |
| intracellular | 45 | PMADS2, SYN\_112, GAI1, COL9, COL4, SOC1, SVP, IAA27, CSTF77, SEP4, MYB33, SEP2, IAA9, SEP3, SEP1, FUL, AGL24, MYB35, CUC2, CUC1, Seq79, AP3\_3, SPL3, AP1, AP2, SPL1, AG, MYB80, LMI2, EIN3, CO, AP3\_2, CAL, AP3\_1, MYB44, VIP5, SEP2\_2, VRN1, MYB61, PI, SEP3\_2, MYB5, MYB26, VIP3, VIP4 |
| intracellular part | 45 | PMADS2, SYN\_112, GAI1, COL9, COL4, SOC1, SVP, IAA27, CSTF77, SEP4, MYB33, SEP2, IAA9, SEP3, SEP1, FUL, AGL24, MYB35, CUC2, CUC1, Seq79, AP3\_3, SPL3, AP1, AP2, SPL1, AG, MYB80, LMI2, EIN3, CO, AP3\_2, CAL, AP3\_1, MYB44, VIP5, SEP2\_2, VRN1, MYB61, PI, SEP3\_2, MYB5, MYB26, VIP3, VIP4 |
| intrinsic component of membrane | 7 | SYN\_112, TET8, GDSL2, NIP, PIN1, P450\_86B1\_like, CYP450\_CYP72A219 |