| Orthology and Abbreviations | | | |
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| Gene Name | *Solanum* Gene ID | *Nicotiana* Ortholog ID*1* | *Nicotiana* Abbreviation |
| *ACO1* | *Solyc07g049530.3.1* | *—* | *—* |
| *ACO2* | *Solyc12g005940.2.1* | *—* | *—* |
| *ACO3* | *Solyc07g049550.3.1* | *—* | *—* |
| *ACO4* | *Solyc02g081190.4.1* | *NIOBTv3\_g13660.t1* | *NoACO4* |
| *ACO5* | *Solyc07g026650.3.1* | *NIOBTv3\_g38689.t1* | *NoACO5* |
| *ACO6* | *Solyc02g036350.3.1* | *NIOBTv3\_g02352.t1* | *NoACO6* |
| *ACO7* | *Solyc06g060070.3.1* | *—* | *—* |
| *ACS2* | *Solyc01g095080.3.1* | *—* | *—* |
| *ACS4* | *Solyc05g050010.3.1* | *—* | *—* |
| *AGL11* | *Solyc11g028020.3.1* | *NIOBTv3\_g14436.t1* | *NoAGL11* |
| *Cel2* | *Solyc09g010210.3.1* | *NIOBTv3\_g19880.t1* | *NoCel2* |
| *Cel3* | *Solyc07g005840.2.1* | *NIOBTv3\_g12440.t1* | *NoCel3* |
| *CHS-1* | *Solyc09g091510.3.1* | *—* | *—* |
| *CHS-2* | *Solyc05g053550.3.1* | *—* | *—* |
| *CTOMT1* | *Solyc10g005060.4.1* | *—* | *—* |
| *EIL1* | *Solyc06g073720.3.1* | *—* | *—* |
| *EIL2* | *Solyc01g009170.4.1* | *—* | *—* |
| *EIL4* | *Solyc06g073730.2.1* | *—* | *—* |
| *EJ2/MADS1* | *Solyc03g114840.3.1* | *—* | *—* |
| *EXP1* | *Solyc06g051800.3.1* | *NIOBTv3\_g17210.t1* | *NoEXP* |
| *FUL1* | *Solyc06g069430.3.1* | *NIOBTv3\_g28929-D2.t1* | *NoFUL1* |
| *FUL2* | *Solyc03g114830.3.1* | *NIOBTv3\_g39464.t1* | *NoFUL2* |
| *FYFL* | *Solyc03g006830.3.1* | *NIOBTv3\_g10096.t1* | *NoFYFL* |
| *GAD1* | *Solyc03g098240.3.1* | *NIOBTv3\_g11084.t1* | *NoGAD1* |
| *GAD2* | *Solyc11g011920.2.1* | *—* | *—* |
| *GAD3* | *Solyc01g005000.3.1* | *—* | *—* |
| *J* | *Solyc11g010570.2.1* | *—* | *—* |
| *J2* | *Solyc12g038510.2.1* | *NIOBTv3\_g15806.t1* | *NoJ2* |
| *MADS-RIN* | *Solyc05g012020.4.1* | *—* | *—* |
| *MBP10* | *Solyc02g065730.2.1* | *NIOBTv3\_g07845.t1* | *NoMBP10* |
| *MBP20* | *Solyc02g089210.4.1* | *NIOBT\_gMBP20.t1* | *NoMBP20* |
| *MBP3* | *Solyc06g064840.4.1* | *—* | *—* |
| *MC* | *Solyc05g056620.2.1* | *NIOBTv3\_g18077.t1* | *NoMC* |
| *NAC-NOR* | *Solyc10g006880.3.1* | *NIOBTv3\_g08302.t1* | *NoNOR* |
| *NR/ETR3* | *Solyc09g075440.4.1* | *NIOBTv3\_g10291.t1* | *NoETR3* |
| *PGA2A* | *Solyc10g080210.2.1* | *—* | *—* |
| *PL1* | *Solyc03g111690.4.1* | *—* | *—* |
| *PSY1* | *Solyc03g031860.3.1* | *NIOBTv3\_g17569.t1* | *NoPSY1* |
| *Solyc03g117740.3.1* | *Solyc03g117740.3.1* | *NIOBTv3\_g22270.t1* | *NIOBTv3\_g22270.t1* |
| *Solyc04g072038.1.1* | *Solyc04g072038.1.1* | *NIOBTv3\_g10008.t1* | *NIOBTv3\_g10008.t1* |
| *Solyc06g065310.3.1* | *Solyc06g065310.3.1* | *NIOBTv3\_g12238.t1* | *NIOBTv3\_g12238.t1* |
| *Solyc07g064300.3.1* | *Solyc07g064300.3.1* | *NIOBTv3\_g11662.t1* | *NIOBTv3\_g11662.t1* |
| *SPL-CNR* | *Solyc02g077920.4.1* | *NIOBTv3\_g27953.t1* | *NoSPL-CNR* |
| *STM3* | *Solyc01g092950.3.1* | *—* | *—* |
| *TAG1* | *Solyc02g071730.4.1* | *NIOBTv3\_g22632-D2.t1* | *NoAG* |
| *TAGL1* | *Solyc07g055920.4.1* | *NIOBTv3\_g13969.t1* | *NoSHP* |
| *TM29* | *Solyc02g089200.4.1* | *NIOBTv3\_g14235.t1* | *NoSEP1* |
| *TM3* | *Solyc01g093965.2.1* | *—* | *—* |
| *TM5* | *Solyc05g015750.3.1* | *—* | *—* |
| *TOMLOXC* | *Solyc01g006540.4.1* | *—* | *—* |
| *1*Only one-to-one and many-to-one orthologs | | | |