

**Supplemental Table III**

Genes in orthologous groups (A-M, A-R and A-P)  
Genes shown in a line belong to a OG in a particular type.

## A-P OGs in similarity approach

## ArabidopsisPoplar

AT5G10530.1,AT5G65600.1 Poptr1|554038  
AT3G51990.1 Poptr1|641296,Poptr1|650034  
AT2G46850.1 Poptr1|348177  
AT5G46570.1 Poptr1|580104  
AT5G41260.1 Poptr1|683685,Poptr1|693438  
AT4G00710.1 Poptr1|552160,Poptr1|731084  
AT4G27290.1  
Poptr1|97854,Poptr1|582053,Poptr1|582034,Poptr1|97851,Poptr1|97864,Poptr1|582044,Poptr1|699125,P  
optr1|569016,Poptr1|582049,Poptr1|582052,Poptr1|101581  
AT5G37790.1,AT1G66460.1 Poptr1|555947,Poptr1|692133  
AT3G51550.1 Poptr1|561003  
AT2G02800.1,AT1G14370.1 Poptr1|687114,Poptr1|345383  
AT5G57670.1 Poptr1|578641,Poptr1|585151  
AT3G58690.1 Poptr1|572853  
AT4G39110.1,AT2G21480.1 Poptr1|546679,Poptr1|557210  
AT4G20790.1 Poptr1|569329  
AT1G20650.1,AT1G76370.1 Poptr1|550762,Poptr1|73161  
AT5G42120.1 Poptr1|72567  
AT2G23770.1 Poptr1|655239,Poptr1|593989  
AT3G62220.1 Poptr1|700369,Poptr1|552601  
AT3G07070.1 Poptr1|553153  
AT5G24080.1 Poptr1|345693,Poptr1|580575  
AT5G16500.1,AT3G02810.1 Poptr1|588682  
AT1G07870.1,AT2G28590.1 Poptr1|706250,Poptr1|723362  
AT5G40380.1 Poptr1|691561  
AT1G51940.1 Poptr1|48907  
AT1G01540.2 Poptr1|700244  
AT3G08870.1,AT5G01560.1,AT5G01540.1,AT5G01550.1  
Poptr1|344319,Poptr1|106230,Poptr1|577036,Poptr1|577038  
AT4G00330.1 Poptr1|644485,Poptr1|731138  
AT5G55830.1 Poptr1|642314,Poptr1|55852  
AT3G15890.1,AT1G52540.1 Poptr1|548816,Poptr1|592708  
AT1G66920.1,AT1G66930.1,AT1G66910.1,AT1G67000.1,AT5G38260.1  
Poptr1|589687,Poptr1|589689,Poptr1|580819  
AT5G56460.1 Poptr1|555179,Poptr1|62672  
AT5G63940.1 Poptr1|685961,Poptr1|558448,Poptr1|692752,Poptr1|714592  
AT2G07180.1 Poptr1|584547,Poptr1|351717  
AT2G18890.1 Poptr1|96908,Poptr1|578584  
AT2G24370.1,AT4G31230.1 Poptr1|344214  
AT2G45910.1 Poptr1|711039,Poptr1|57030  
AT5G38560.1  
Poptr1|562124,Poptr1|52102,Poptr1|578989,Poptr1|546236,Poptr1|679010,Poptr1|569037,Poptr1|584555,  
Poptr1|49164,Poptr1|551298,Poptr1|572526,Poptr1|576114,Poptr1|562270,Poptr1|675118,Poptr1|555048,Poptr1|5918  
44,Poptr1|577579,Poptr1|556899,Poptr1|106362,Poptr1|58330,Poptr1|578993,Poptr1|585079,Poptr1|586309,Poptr1|7  
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tr1|560987,Poptr1|103406,Poptr1|551899,Poptr1|592330,Poptr1|549167,Poptr1|108273,Poptr1|563358,Poptr1|106693  
,Poptr1|592210,Poptr1|583873,Poptr1|581955,Poptr1|561040,Poptr1|548827,Poptr1|578194,Poptr1|670243,Poptr1|62  
898,Poptr1|589180,Poptr1|597582,Poptr1|570074,Poptr1|585088,Poptr1|662800,Poptr1|584554,Poptr1|550408,Poptr  
1|342368,Poptr1|589374,Poptr1|554855,Poptr1|718385,Poptr1|577520,Poptr1|107453,Poptr1|683813,Poptr1|647206,  
Poptr1|353576,Poptr1|596680,Poptr1|55474,Poptr1|668290,Poptr1|579127,Poptr1|653860,Poptr1|558028,Poptr1|555  
410,Poptr1|597493,Poptr1|55733,Poptr1|105293,Poptr1|555435,Poptr1|570903,Poptr1|351630,Poptr1|62795,Poptr1|5  
68346,Poptr1|345640,Poptr1|566579,Poptr1|562038,Poptr1|576723,Poptr1|571598,Poptr1|558030,Poptr1|545664,Pop  
ptr1|694110,Poptr1|571226,Poptr1|545294,Poptr1|544891,Poptr1|97856,Poptr1|579578,Poptr1|106626,Poptr1|544887  
,Poptr1|568224,Poptr1|106912,Poptr1|557261,Poptr1|569014,Poptr1|744623,Poptr1|572600,Poptr1|647811,Poptr1|56  
8364,Poptr1|562858,Poptr1|666165,Poptr1|580674,Poptr1|97984,Poptr1|672171,Poptr1|595391,Poptr1|568334,Poptr  
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Poptr1|594872,Poptr1|554320,Poptr1|104309,Poptr1|562127,Poptr1|578983,Poptr1|555556,Poptr1|575188,Poptr1|70  
2960,Poptr1|343922,Poptr1|549474,Poptr1|55884,Poptr1|586812,Poptr1|587675,Poptr1|595005,Poptr1|595573,Poptr  
1|659779,Poptr1|693783,Poptr1|344449,Poptr1|565696,Poptr1|562039,Poptr1|347195,Poptr1|588611,Poptr1|681654,  
Poptr1|101345,Poptr1|748316,Poptr1|579629,Poptr1|345938,Poptr1|593663,Poptr1|595264,Poptr1|577421,Poptr1|55  
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r1|678814,Poptr1|651093,Poptr1|104391,Poptr1|578994,Poptr1|558276,Poptr1|555421,Poptr1|663560,Poptr1|582054  
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169,Poptr1|558596,Poptr1|577176,Poptr1|75428,Poptr1|343964,Poptr1|352589,Poptr1|568339,Poptr1|584552,Poptr1|  
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ptr1|99464,Poptr1|579819,Poptr1|567635,Poptr1|545118,Poptr1|555408,Poptr1|354273,Poptr1|741188,Poptr1|56063  
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1|593690,Poptr1|705883,Poptr1|558035,Poptr1|568229,Poptr1|581280,Poptr1|583042,Poptr1|589427,Poptr1|568081,  
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 Poptr1|574101  
 Poptr1|342998,Poptr1|573052  
 Poptr1|553704,Poptr1|553707  
 AT5G40690.1 Poptr1|691609,Poptr1|641734  
 AT4G24230.1 Poptr1|592048  
 AT3G56360.1 Poptr1|738709  
 AT5G05250.1  
 AT5G16020.1 Poptr1|556158  
 AT1G08220.1 Poptr1|650559  
 AT5G07380.1 Poptr1|575495  
 AT5G54970.1,AT4G26960.1 Poptr1|351533  
 AT3G07760.1 Poptr1|700622  
 AT2G32350.1 Poptr1|594463  
 ATMG00570.1 Poptr1|747366,Poptr1|591301  
 AT1G07645.1 Poptr1|49021  
 AT3G11150.1 Poptr1|353690  
 AT2G43540.1 Poptr1|562190  
 AT5G08040.1 Poptr1|742374  
 ATMG00640.1 Poptr1|61608  
 AT1G69500.1 Poptr1|564227  
 AT3G48520.1,AT5G63450.1 Poptr1|549695,Poptr1|356043  
 AT1G63710.1 Poptr1|572270,Poptr1|712508  
 AT1G24540.1 Poptr1|583115,Poptr1|345520  
 AT2G27690.1 Poptr1|649118,Poptr1|571386,Poptr1|594809  
 AT2G21910.1,AT1G65340.1,AT4G32170.1,AT4G39500.1,AT1G47620.1,AT4G39510.1,AT4G39480.1,AT5G52320.1,AT4G39490.1,AT2G23180.1,AT1G57750.1 Poptr1|581333,Poptr1|75847,Poptr1|575715  
 AT5G08250.1,AT5G23190.1 Poptr1|562811,Poptr1|558688  
 AT5G58860.1 Poptr1|64287,Poptr1|557951  
 AT2G44890.1,AT2G45510.1 Poptr1|56982  
 AT1G34540.1,AT3G56630.1 Poptr1|576119,Poptr1|351364,Poptr1|102197  
 AT3G01900.1  
 AT4G00360.1,AT1G01600.1  
 AT2G45970.1  
 AT1G66030.1,AT5G02900.1  
 AT5G51900.1  
 Poptr1|342257,Poptr1|72854,Poptr1|588365,Poptr1|595766,Poptr1|551071  
 Poptr1|55700  
 Poptr1|558712,Poptr1|51676,Poptr1|354209  
 Poptr1|71541,Poptr1|575263,Poptr1|703937  
 Poptr1|566555  
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 Poptr1|593756,Poptr1|730915  
 Poptr1|575718,Poptr1|572135  
 Poptr1|678684,Poptr1|649120,Poptr1|654348  
 Poptr1|64647  
 AT5G65640.1,AT5G10570.1 Poptr1|551685  
 AT3G26360.1 Poptr1|658248  
 AT4G37445.1 Poptr1|674820  
 AT5G04010.1 Poptr1|351458  
 AT1G06500.1 Poptr1|551239  
 AT5G02810.1 Poptr1|567532,Poptr1|686518  
 AT5G24470.1 Poptr1|572468,Poptr1|574629,Poptr1|699541,Poptr1|348165  
 AT5G61380.1 Poptr1|97435

AT5G60100.1  
 AT2G46790.1,AT2G46670.1  
     Poptr1|732723  
 AT3G56720.1      Poptr1|652599,Poptr1|667287  
 AT5G20635.1      Poptr1|675860,Poptr1|668727  
 AT3G52070.1      Poptr1|557794  
 AT4G34600.1,AT2G16385.1      Poptr1|557216  
 AT3G56010.1      Poptr1|564055,Poptr1|659485  
 AT5G63050.1      Poptr1|570159,Poptr1|575196  
 AT1G67310.1      Poptr1|554769,Poptr1|548038  
 AT2G22300.1      Poptr1|562594  
 AT3G16940.1,AT4G16150.1      Poptr1|354049,Poptr1|723886  
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     Poptr1|71635  
     Poptr1|698356  
 AT5G40480.1      Poptr1|64802  
 AT1G73120.1      Poptr1|679459,Poptr1|698765  
 AT3G01960.1      Poptr1|549720,Poptr1|597136  
 AT2G35530.1,AT1G32150.1      Poptr1|590067,Poptr1|349938  
 AT4G36730.1      Poptr1|593965  
 AT2G46270.1      Poptr1|731253,Poptr1|552242  
 AT4G01120.1  
     Poptr1|719452  
 AT5G04080.1      Poptr1|652633  
 AT5G01075.1      Poptr1|572051  
 AT5G65880.1      Poptr1|571991  
 AT4G21720.1      Poptr1|555816  
 AT3G11260.1      Poptr1|55494  
 AT2G33880.1      Poptr1|586070  
 AT3G18010.1      Poptr1|661686,Poptr1|666295  
 AT5G05770.1  
 AT5G45980.1  
 AT5G46010.1  
 AT2G01500.1  
 AT2G28610.1  
 AT5G41320.1      Poptr1|350236,Poptr1|548454  
 AT5G16950.1      Poptr1|548239  
 AT2G27590.1      Poptr1|556730  
     Poptr1|552086  
 AT5G14440.1      Poptr1|641672  
 AT5G40570.1  
 AT1G07985.1      Poptr1|64549  
 AT1G20070.1      Poptr1|559853,Poptr1|550861  
 AT5G16715.1      Poptr1|553010  
 AT1G14610.1      Poptr1|686136,Poptr1|558652  
 AT1G27160.1  
     Poptr1|108531  
     Poptr1|585307  
     Poptr1|545425  
     Poptr1|545426  
 AT4G39420.1      Poptr1|71749,Poptr1|562736  
 AT4G32070.1,AT2G25290.1      Poptr1|561937  
 AT4G30480.2      Poptr1|653635,Poptr1|737912  
 AT1G62390.1      Poptr1|584736,Poptr1|568163  
     Poptr1|669693  
 AT2G25570.1      Poptr1|64203  
 AT2G15020.1      Poptr1|557459  
 AT4G32570.1      Poptr1|352858,Poptr1|578148  
 AT3G61930.1      Poptr1|572459,Poptr1|348158  
 AT1G53460.1      Poptr1|65594  
 AT1G07840.1      Poptr1|651172  
 AT4G18740.1      Poptr1|555653,Poptr1|568684  
 AT1G18850.1      Poptr1|581352  
 AT3G60650.1      Poptr1|347827,Poptr1|591665  
 AT5G44080.1      Poptr1|694626  
 AT1G03970.1

A-R OGs in similarity approach

ArabidopsisRice

AT3G46290.1,AT5G59700.1      Orysa4|Os05g06990.1,Orysa4|Os06g22810.1  
 AT1G33260.1,AT4G10390.1  
     Orysa4|Os03g02190.1,Orysa4|Os02g43290.1,Orysa4|Os10g37190.1,Orysa4|Os04g45730.1  
 AT5G03140.1,AT3G53380.1      Orysa4|Os05g03450.1  
 AT1G67890.1,AT5G49470.2,AT3G06630.1,AT3G06640.1,AT3G06620.1      Orysa4|Os12g37570.1  
 AT2G45590.1,AT4G25390.1,AT5G51770.1      Orysa4|Os03g14710.1  
 AT1G24030.1      Orysa4|Os09g20880.1  
 AT3G62220.1,AT2G47060.4      Orysa4|Os05g04520.1  
 AT2G31800.1,AT2G43850.1,AT3G59830.1      Orysa4|Os01g66860.1  
 AT2G32800.1      Orysa4|Os11g25860.1  
 AT1G51940.1      Orysa4|Os01g53840.1  
 AT2G30740.1,AT3G02810.1,AT4G23310.1,AT2G39180.1,AT1G65790.1,AT3G27560.1,AT4G01330.1,AT2G39110.1,A  
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A-P OGs in tree approach  
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 AT4G38310  
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A-R OGs in tree approach

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A-M OGs in tree approach  
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