

Table S4 Collinear gene display of the Pennisetum glaucum the small GTPase family genes

Pennisetum glaucum VS Arabidopsis thaliana	
Pennisetum glaucum (ID)	Arabidopsis thaliana (ID)
PMF2G07614.1	rna-NM_100615.3
PMF3G06870.1	rna-NM_124091.5
PMF3G06870.1	rna-NM_117859.4
PMF3G07258.1	rna-NM_001343479.1
PMF3G07258.1	rna-NM_111182.3
PMF4G01161.1	rna-NM_104512.3
PMF4G01700.1	rna-NM_104512.3
PMF5G00799.1	rna-NM_126156.5
PMF5G00799.1	rna-NM_114846.4
PMF6G06384.1	rna-NM_125305.5
PMF7G01534.1	rna-NM_124865.4
Pennisetum glaucum VS Brachypodium distachyon	
Pennisetum glaucum (ID)	Brachypodium distachyon (ID)
PMF1G01221.1	rna-XM_003577366.4
PMF1G05363.1	rna-XM_010232869.3
PMF1G05444.1	rna-XM_003568047.4
PMF1G05503.1	rna-XM_003568047.4
PMF1G05505.1	rna-XM_003569766.4
PMF1G05694.1	rna-XM_003567965.4
PMF1G05694.1	rna-XM_003569628.4
PMF1G05954.1	rna-XM_003567845.4
PMF1G05954.1	rna-XM_010233813.3
PMF1G06036.1	rna-XM_003567797.4
PMF1G07339.1	rna-XM_003569084.3
PMF1G07340.1	rna-XM_003569085.4
PMF2G00092.1	rna-XM_003573475.4
PMF2G00219.1	rna-XM_003573475.4
PMF2G00325.1	rna-XM_010235452.2
PMF2G03099.1	rna-XM_003570619.4
PMF2G05012.1	rna-XM_014900774.2
PMF2G05012.1	rna-XM_003558746.4
PMF2G05061.1	rna-XM_003573954.4
PMF2G05061.1	rna-XM_003558773.4
PMF2G06240.1	rna-XM_003576398.4
PMF2G06240.1	rna-XM_003561418.4
PMF2G06295.1	rna-XM_014902786.2
PMF2G07503.1	rna-XM_003563903.4
PMF2G07577.1	rna-XM_003563632.4
PMF2G07614.1	rna-XM_010229221.3
PMF2G07717.1	rna-XM_010229221.3
PMF3G01107.1	rna-XM_003580350.4
PMF3G02275.1	rna-XM_010241713.3
PMF3G02275.1	rna-XM_003575198.4
PMF3G04013.1	rna-XM_003563728.4
PMF3G06173.1	rna-XM_010241713.3
PMF3G06173.1	rna-XM_003575198.4
PMF3G07578.1	rna-XM_003570460.4
PMF4G00630.1	rna-XM_003576398.4
PMF4G00630.1	rna-XM_003561418.4
PMF4G00643.1	rna-XM_014902786.2
PMF4G00861.1	rna-XM_014902786.2
PMF4G01161.1	rna-XM_003579247.4
PMF4G01700.1	rna-XM_003579247.4
PMF4G03820.1	rna-XM_010236214.3

Table S4 Collinear gene display of the Pennisetum glaucum the small GTPase family genes (continued)

Pennisetum glaucum VS Brachypodium distachyon	
Pennisetum glaucum (ID)	Brachypodium distachyon (ID)
PMF5G00377.1	rna-XM_003573954.4
PMF5G00377.1	rna-XM_003558773.4
PMF5G00432.1	rna-XM_014900774.2
PMF5G00432.1	rna-XM_003558746.4
PMF5G00799.1	rna-XM_003558519.4
PMF5G03319.1	rna-XM_010236315.3
PMF5G03473.1	rna-XM_003573690.4
PMF5G03473.1	rna-XM_003558320.4
PMF5G04574.1	rna-XM_010229248.3
PMF6G00087.1	rna-XM_003565852.4
PMF6G01580.1	rna-XM_003566385.4
PMF6G02638.1	rna-XM_003567606.4
PMF6G03456.1	rna-XM_003569164.4
PMF6G03928.1	rna-XM_003569291.4
PMF6G04387.1	rna-XM_003567797.4
PMF6G04608.1	rna-XM_010233813.3
PMF6G04608.1	rna-XM_003567845.4
PMF6G05067.1	rna-XM_003569628.4
PMF6G05067.1	rna-XM_003567965.4
PMF6G06047.1	rna-XM_003578951.4
PMF6G06047.1	rna-XM_010234176.2
PMF6G06384.1	rna-XM_003564562.4
PMF7G00533.1	rna-XM_003562567.4
PMF7G00682.1	rna-XM_010230239.3
PMF7G00682.1	rna-XM_003562627.4
PMF7G01534.1	rna-XM_003560093.4
PMF7G01712.1	rna-XM_010239811.3
PMF7G04840.1	rna-XM_010239707.3
PMF7G06101.1	rna-XM_024458378.1
PMF7G06101.1	rna-XM_003563632.4
PMF7G06486.1	rna-XM_003557376.4
Pennisetum glaucum VS Oryza sativa	
Pennisetum glaucum (ID)	Oryza sativa (ID)
PMF0G01771.1	LOC_Os07g13530.1
PMF1G01221.1	LOC_Os11g37640.1
PMF1G03639.1	LOC_Os05g27530.1
PMF1G05363.1	LOC_Os05g43820.1
PMF1G05444.1	LOC_Os05g44050.1
PMF1G05503.1	LOC_Os05g44050.1
PMF1G05505.1	LOC_Os01g54590.1
PMF1G05505.1	LOC_Os05g44070.1
PMF1G05694.1	LOC_Os01g51700.1
PMF1G05694.1	LOC_Os05g46000.1
PMF1G05954.1	LOC_Os01g47730.1
PMF1G05954.1	LOC_Os05g48980.1
PMF1G06036.1	LOC_Os05g49890.1
PMF1G07165.1	LOC_Os01g12900.1
PMF1G07339.1	LOC_Os05g01490.1
PMF1G07340.1	LOC_Os05g01480.1
PMF2G00092.1	LOC_Os02g02840.1
PMF2G00219.1	LOC_Os02g02840.1
PMF2G00325.1	LOC_Os02g03610.1
PMF2G03099.1	LOC_Os02g50860.1
PMF2G03099.1	LOC_Os06g12790.1

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Pennisetum glaucum VS Oryza sativa	
Pennisetum glaucum (ID)	Oryza sativa (ID)
PMF2G05012.1	LOC_Os03g05740.1
PMF2G05012.1	LOC_Os10g30520.1
PMF2G05061.1	LOC_Os03g05280.1
PMF2G05061.1	LOC_Os10g31830.1
PMF2G06240.1	LOC_Os03g46390.1
PMF2G06240.1	LOC_Os12g43550.1
PMF2G07503.1	LOC_Os03g59590.1
PMF2G07577.1	LOC_Os03g60530.1
PMF2G07577.1	LOC_Os07g13530.1
PMF2G07614.1	LOC_Os03g60870.1
PMF2G07717.1	LOC_Os03g60870.1
PMF3G01107.1	LOC_Os04g49530.1
PMF3G02275.1	LOC_Os02g37420.1
PMF3G02275.1	LOC_Os04g39440.1
PMF3G04013.1	LOC_Os06g35814.1
PMF3G06173.1	LOC_Os02g37420.1
PMF3G06173.1	LOC_Os04g39440.1
PMF3G06870.1	LOC_Os02g43690.3
PMF3G07258.1	LOC_Os02g47110.2
PMF3G07258.1	LOC_Os10g42940.1
PMF3G07578.1	LOC_Os02g49980.1
PMF4G00630.1	LOC_Os12g43550.1
PMF4G01161.1	LOC_Os12g37360.1
PMF4G01700.1	LOC_Os12g37360.1
PMF4G03820.1	LOC_Os08g15040.1
PMF4G04511.1	LOC_Os08g41340.1
PMF5G00377.1	LOC_Os03g05270.1
PMF5G00377.1	LOC_Os10g31830.1
PMF5G00432.1	LOC_Os03g05740.1
PMF5G00432.1	LOC_Os10g30520.1
PMF5G00799.1	LOC_Os03g10370.1
PMF5G03319.1	LOC_Os02g47110.2
PMF5G03319.1	LOC_Os10g42940.1
PMF5G03473.1	LOC_Os03g13860.1
PMF5G03473.1	LOC_Os10g04580.1
PMF5G04574.1	LOC_Os06g39875.1
PMF6G00087.1	LOC_Os01g12730.1
PMF6G01580.1	LOC_Os01g15010.1
PMF6G01763.1	LOC_Os01g16030.1
PMF6G03456.1	LOC_Os01g37800.1
PMF6G03928.1	LOC_Os01g42520.1
PMF6G04387.1	LOC_Os05g49890.1
PMF6G04608.1	LOC_Os01g47730.1
PMF6G04608.1	LOC_Os05g48980.1
PMF6G05067.1	LOC_Os01g51700.1
PMF6G05067.1	LOC_Os05g46000.1
PMF6G06047.1	LOC_Os01g59790.2
PMF6G06047.1	LOC_Os05g41060.1
PMF6G06384.1	LOC_Os01g62950.1
PMF7G00533.1	LOC_Os07g44040.1
PMF7G00682.1	LOC_Os03g27450.1
PMF7G00682.1	LOC_Os07g42820.1
PMF7G01534.1	LOC_Os07g33850.2
PMF7G01712.1	LOC_Os07g31370.1

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Pennisetum glaucum VS Oryza sativa	
Pennisetum glaucum (ID)	Oryza sativa (ID)
PMF7G02501.1	LOC_Os09g35860.1
PMF7G04840.1	LOC_Os09g10940.1
PMF7G05850.1	LOC_Os03g62600.1
PMF7G06101.1	LOC_Os03g60530.1
PMF7G06101.1	LOC_Os07g13530.1
PMF7G06486.1	LOC_Os07g09680.1
Pennisetum glaucum VS Zea mays	
Pennisetum glaucum (ID)	Zea mays (ID)
PMF1G01221.1	rna-NM_001137195.1
PMF1G05363.1	rna-NM_001111664.1
PMF1G05363.1	rna-NM_001112053.1
PMF1G05444.1	rna-NM_001175787.1
PMF1G05444.1	rna-XM_008656306.2
PMF1G05503.1	rna-NM_001175787.1
PMF1G05503.1	rna-XM_008651714.3
PMF1G05505.1	rna-NM_001154859.2
PMF1G05694.1	rna-XM_008651714.3
PMF1G05694.1	rna-NM_001175787.1
PMF1G05694.1	rna-NM_001279821.2
PMF1G05954.1	rna-NM_001358608.1
PMF1G05954.1	rna-NM_001157651.2
PMF1G05954.1	rna-NM_001147163.1
PMF1G05954.1	rna-XM_020543182.2
PMF1G06036.1	rna-NM_001155749.2
PMF1G06036.1	rna-NM_001138409.1
PMF1G06036.1	rna-NM_001361681.1
PMF1G07165.1	rna-NM_001111460.2
PMF1G07339.1	rna-XM_008650456.4
PMF1G07340.1	rna-NM_001157606.2
PMF1G07340.1	rna-NM_001137890.1
PMF2G00219.1	rna-NM_001111727.1
PMF2G00219.1	rna-NM_001112145.2
PMF2G00325.1	rna-NM_001137692.1
PMF2G03099.1	rna-XM_008646034.4
PMF2G03099.1	rna-NM_001112267.1
PMF2G03099.1	rna-NM_001111593.1
PMF2G03315.1	rna-XM_008660887.4
PMF2G05012.1	rna-NM_001155806.1
PMF2G05061.1	rna-NM_001156564.2
PMF2G05061.1	rna-XM_035958819.1
PMF2G06240.1	rna-XM_020553086.2
PMF2G06240.1	rna-NM_001136961.2
PMF2G06240.1	rna-NM_001291637.2
PMF2G06295.1	rna-XM_008678615.3
PMF2G07503.1	rna-XM_008645173.3
PMF2G07503.1	rna-XM_008667436.3
PMF2G07577.1	rna-NM_001147664.1
PMF2G07577.1	rna-XM_008668269.3
PMF2G07614.1	rna-NM_001196975.1
PMF2G07614.1	rna-NM_001143079.1
PMF2G07717.1	rna-NM_001136603.1
PMF2G07717.1	rna-NM_001367067.1
PMF2G07717.1	rna-NM_001143079.1
PMF3G01107.1	rna-NM_001147574.1

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Pennisetum glaucum VS Zea mays	
Pennisetum glaucum (ID)	Zea mays (ID)
PMF3G02275.1	rna-NM_001112608.1
PMF3G02275.1	rna-NM_001143419.1
PMF3G02275.1	rna-NM_001112763.2
PMF3G04013.1	rna-NM_001369294.1
PMF3G04013.1	rna-NM_001139367.1
PMF3G06173.1	rna-NM_001112608.1
PMF3G06173.1	rna-NM_001143419.1
PMF3G06173.1	rna-NM_001112273.1
PMF3G06870.1	rna-NM_001196637.1
PMF3G07258.1	rna-NM_001154076.2
PMF3G07258.1	rna-XM_020551587.3
PMF3G07578.1	rna-NM_001326461.1
PMF3G07578.1	rna-NM_001365395.1
PMF4G00630.1	rna-XM_020553086.2
PMF4G00643.1	rna-XM_008678615.3
PMF4G00861.1	rna-XM_008678615.3
PMF4G04511.1	rna-NM_001158899.1
PMF4G05650.1	rna-XM_008679842.2
PMF5G00377.1	rna-NM_001156564.2
PMF5G00377.1	rna-XM_020543698.3
PMF5G00377.1	rna-XM_008678331.4
PMF5G00377.1	rna-XM_008646993.4
PMF5G00432.1	rna-NM_001155806.1
PMF5G00799.1	rna-NM_001137051.1
PMF5G00799.1	rna-NM_001155570.1
PMF5G03319.1	rna-NM_001154076.2
PMF5G03473.1	rna-NM_001157444.1
PMF6G00087.1	rna-NM_001156567.3
PMF6G01580.1	rna-NM_001111792.2
PMF6G01763.1	rna-XM_008656239.4
PMF6G02638.1	rna-NM_001152695.1
PMF6G02638.1	rna-NM_001156143.2
PMF6G03456.1	rna-NM_001137272.1
PMF6G03928.1	rna-NM_001152506.1
PMF6G03928.1	rna-XM_008659573.2
PMF6G04387.1	rna-NM_001155749.2
PMF6G04387.1	rna-NM_001138409.1
PMF6G04387.1	rna-NM_001361681.1
PMF6G04608.1	rna-NM_001358608.1
PMF6G04608.1	rna-NM_001157651.2
PMF6G04608.1	rna-XM_020543182.2
PMF6G04608.1	rna-NM_001147163.1
PMF6G05067.1	rna-XM_008651714.3
PMF6G05067.1	rna-NM_001279821.2
PMF6G06047.1	rna-XM_008674655.3
PMF6G06047.1	rna-XM_008649968.4
PMF6G06047.1	rna-NM_001175484.1
PMF6G06384.1	rna-NM_001153451.1
PMF7G00533.1	rna-XM_035960381.1
PMF7G00682.1	rna-NM_001156059.1
PMF7G00682.1	rna-NM_001134282.1
PMF7G01534.1	rna-NM_001157638.2
PMF7G01534.1	rna-XM_008654936.4
PMF7G01712.1	rna-NM_001370563.1

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Pennisetum glaucum VS Zea mays	
Pennisetum glaucum (ID)	Zea mays (ID)
PMF7G01712.1	rna-NM_001148891.1
PMF7G02501.1	rna-NM_001158487.1
PMF7G05850.1	rna-NM_001138471.1
PMF7G06101.1	rna-NM_001147819.1
PMF7G06101.1	rna-NM_001196975.1
PMF7G06101.1	rna-XM_008668269.3
PMF7G06486.1	rna-NM_001361152.1
PMF7G06486.1	rna-XM_020540687.2