

pantherGeneList

Supplementary Table 4. List of genes with differentially methylated A, C or G- boxes in the

| Gene ID | | | Mapped IDs |
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| ARATH | TAIR=locus=505006261 | UniProtKB=Q8RUD6 | AT2G21045 |
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| ARATH | TAIR=locus=2032652 | UniProtKB=Q84MD7 | AT1G72880 |
| ARATH | TAIR=locus=2034026 | UniProtKB=Q9SAV0 | AT1G52040 |
| ARATH | TAIR=locus=2089408 | UniProtKB=Q9LUS5 | AT3G16590 |
| ARATH | TAIR=locus=2126316 | UniProtKB=Q9M092 | AT4G31100 |
| ARATH | TAIR=locus=2114550 | UniProtKB=Q9SMN3 | AT3G48660 |
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| ARATH | Gene=AT1G07850 | UniProtKB=F4HSH8 | AT1G07850 |
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| ARATH | TAIR=locus=505006364 | UniProtKB=Q9LW64 | AT3G23325 |
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| ARATH | TAIR=locus=2041735 | UniProtKB=Q9ASQ5 | AT2G11520 |
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| ARATH TAIR=locus=505006437 | UniProtKB=Q680C0 | AT4G10955 |
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| ARATH TAIR=locus=2197026 | UniProtKB=P0C035 | AT1G53820 |

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| ARATH | TAIR=locus=2085682 | UniProtKB=Q9M1F6 | AT3G45510 |
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| ARATH | TAIR=locus=2029157 | UniProtKB=Q3ECX5 | AT1G43810 |
| ARATH | TAIR=locus=2035952 | UniProtKB=F4I1M5 | AT1G36380 |
| ARATH | TAIR=locus=2119886 | UniProtKB=Q9SZD8 | AT4G29090 |
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| ARATH | TAIR=locus=2124397 | UniProtKB=Q9S9X7 | AT4G07350 |
| ARATH | TAIR=locus=2049721 | UniProtKB=Q9ZUU4 | AT2G37220 |
| ARATH | TAIR=locus=2167479 | UniProtKB=Q9FIW4 | AT5G36890 |
| ARATH | TAIR=locus=2013215 | UniProtKB=Q8GUN7 | AT1G36280 |
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| ARATH | TAIR=locus=2141206 | UniProtKB=O81900 | AT4G21330 |
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| ARATH | TAIR=locus=2198671 | UniProtKB=F4HR03 | AT1G20000 |
| ARATH | TAIR=locus=2028220 | UniProtKB=Q8VZR3 | AT1G45010 |

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| ARATH | TAIR=locus=2018541 | UniProtKB=P0C2F5 | AT1G65760 |

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ir vicinity, identified via the Gene Ontology database.

Gene name; Gene symbol

Transcription activator GLK1;GLK1;ortholog
WRKY transcription factor 1;WRKY1;ortholog
Putative leucine-rich repeat receptor-like serine/threonine-protein kinase At2g19230;At2g19230;ortholog
SWR1 complex subunit 2;SWC2;ortholog
Serine/threonine-protein kinase SRK2B;SRK2B;ortholog
Protein HIGH ARSENIC CONTENT 1, mitochondrial;HAC1;ortholog
At4g25020;At4g25020;ortholog
Homeobox-leucine zipper protein-like protein;At1g20280;ortholog
At1g72880;At1g72880;ortholog
Myrosinase-binding protein 1;MBP1;ortholog
Putative F-box protein At3g16590;At3g16590;ortholog
Wall-associated receptor kinase-like 17;WAKL17;ortholog
Transmembrane protein, putative (DUF 3339);T8P19.170;ortholog
1-acyl-sn-glycerol-3-phosphate acyltransferase;At1g64355;ortholog
Zinc finger CCCH domain-containing protein 37;HUA1;ortholog
Glycosyltransferase;At1g07850;ortholog
F-box associated ubiquitination effector family protein;At1g47350;ortholog
Uncharacterized protein At3g23325;At3g23325;ortholog
GDSE esterase/lipase At1g31550;At1g31550;ortholog
Calmodulin-binding receptor-like cytoplasmic kinase 3;CRCK3;ortholog
AT3g56680/T8M16_10;T8M16_10;ortholog
ABC subfamily C protein;At4g15820;ortholog
NagB/RpiA/CoA transferase-like superfamily protein;At1g72340;ortholog
Inhibitor/lipid-transfer protein/seed storage 2S albumin superfamily protein (DUF784);At3g30385;ortholog
Acyl carrier protein 5, chloroplastic;ACP5;ortholog
Photosystem II stability/assembly factor HCF136, chloroplastic;HCF136;ortholog
Receptor-like protein 38;RLP38;ortholog
Heavy metal transport/detoxification superfamily protein;At3g24450;ortholog
At4g08240;At4g08240;ortholog
Exocyst subunit Exo70 family protein;F11F8_10;ortholog
Proline iminopeptidase;PIP;ortholog
Uncharacterized protein;At5g29210;ortholog
Putative disease resistance protein At5g47280;At5g47280;ortholog
Acetyl-CoA carboxylase 2;ACC2;ortholog
Phytochrome C;PHYC;ortholog
External alternative NAD(P)H-ubiquinone oxidoreductase B4, mitochondrial;NDB4;ortholog
Cysteine/Histidine-rich C1 domain family protein;At1g55390;ortholog
Dehydration-responsive element-binding protein 2G;DREB2G;ortholog
Basic-leucine zipper (BZIP) transcription factor family protein;UNE4;ortholog
Metal-nicotianamine transporter YSL2;YSL2;ortholog
Uncharacterized protein;At2g30480;ortholog
Acyl-CoA N-acyltransferases (NAT) superfamily protein;At2g44175;ortholog
E3 ubiquitin-protein ligase WAVH1;WAVH1;ortholog
S-protein homolog 22;SPH22;ortholog
Probable E3 ubiquitin protein ligase DRIPH;At3g23060;ortholog
Uncharacterized protein;At5g28090;ortholog
P-loop containing nucleoside triphosphate hydrolases superfamily protein;At4g05540;ortholog
Peroxidase 31;PER31;ortholog

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VQ motif-containing protein 29;VQ29;ortholog
Transcription initiation factor TFIID subunit 15;TAF15;ortholog
GroES-like family protein;At5g37960;ortholog
Ferritin-4, chloroplastic;FER4;ortholog
Protein SHI RELATED SEQUENCE 6;SRS6;ortholog
Defensin-like protein 58;At2g03937;ortholog
Cysteine-rich receptor-like protein kinase 36;CRK36;ortholog
Uncharacterized protein;At2g07772;ortholog
Protein INVOLVED IN DE NOVO 2;IDN2;ortholog
Uncharacterized protein;At1g38790;ortholog
At1g69470;At1g69470;ortholog
Kinesin-like protein KIN-12E;KIN12E;ortholog
Cyclin-T1-5;CYCT1-5;ortholog
At3g44100;F26G5_50;ortholog
Uncharacterized protein;At2g06908;ortholog
Putative E3 ubiquitin-protein ligase RF298;RF298;ortholog
40S ribosomal protein S27;At3g61111;ortholog
At5g42290;At5g42290;ortholog
Uncharacterized protein;At5g26262;ortholog
Transmembrane protein, putative (DUF1068);At4g04360;ortholog
Protein TIC 21, chloroplastic;TIC21;ortholog
Homeobox-leucine zipper protein HDG10;HDG10;ortholog
Nuclease;At5g28950;ortholog
MA3 domain-containing protein;At1g22730;ortholog
Histone deacetylase 2;HDA2;ortholog
Pectin lyase-like superfamily protein;F9D16.290;ortholog
Berberine bridge enzyme-like 17;At4g20800;ortholog
Cytochrome P450 like protein;dl3725w;ortholog
ECA1 gametogenesis related family protein;At5g36520;ortholog
F-box only protein 8;FBX8;ortholog
Cysteine-rich receptor-like protein kinase 37;CRK37;ortholog
Ankyrin repeat family protein;MWD22.10;ortholog
Probable prolyl 4-hydroxylase 3;P4H3;ortholog
At4g07825;At4g07825;ortholog
Dehydrin HIRD11;HIRD11;ortholog
Probable E3 ubiquitin-protein ligase ARI16;ARI16;ortholog
Succinate dehydrogenase subunit 7B, mitochondrial;SDH7B;ortholog
At2g42930;At2g42930;ortholog
Mediator of RNA polymerase II transcription subunit 37a;MED37A;ortholog
Chloride channel protein CLC-d;CLC-D;ortholog
At5g38195;At5g38195;ortholog
Jacalin-related lectin 5;JAL5;ortholog
CSC1-like protein At1g69450;At1g69450;ortholog
Putative membrane lipoprotein;At3g42725;ortholog
F-box protein At4g05010;At4g05010;ortholog
CTP synthase;At4g02120;ortholog
Hexokinase-4;At3g20040;ortholog
Putative F-box protein At3g44060;At3g44060;ortholog
Auxin-binding protein 1;ERABP1;ortholog
ECA1 gametogenesis related family protein;At5g36330;ortholog
Probable long-chain-alcohol O-fatty-acyltransferase 1;AT1;ortholog

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Transcription factor TT2;TT2;ortholog
Putative pentatricopeptide repeat-containing protein At3g23330;PCMP-H32;ortholog
Glycine-rich protein;At5g28630;ortholog
ATP binding protein;At1g57650;ortholog
Uncharacterized protein At2g26050;At2g26050;ortholog
Ubiquitin-like superfamily protein;At4g05310;ortholog
Protein root UVB sensitive 4;RUS4;ortholog
Probable protein phosphatase 2C 10;At1g34750;ortholog
Major facilitator superfamily protein;At4g08878;ortholog
Elongation factor 2;LOS1;ortholog
Uncharacterized protein;At1g36922;ortholog
Ubiquitin-like superfamily protein;At4g05250;ortholog
NDR1/HIN1-like protein 10;NHL10;ortholog
Beta-1,4-N-acetylglucosaminyltransferase family protein;At2g13290;ortholog
Basic-leucine zipper (BZIP) transcription factor family protein;basic leucine-zipper 31;ortholog
E3 ubiquitin-protein ligase SINA-like 1;At1g66610;ortholog
Rho GTPase-activating protein 2;ROPGAP2;ortholog
AT4G25030 protein;At4g25030;ortholog
BREVIS RADIX-like protein;At2g21030;ortholog
AAA-ATPase At1g43910;At1g43910;ortholog
Zinc finger CCCH domain-containing protein 30;At2g41900;ortholog
Mediator of RNA polymerase II transcription subunit 21;MED21;ortholog
Putative E3 ubiquitin-protein ligase SINA-like 6;At5g37870;ortholog
At2g12290;At2g12290;ortholog
Phosphoribosylglycinamide formyltransferase, chloroplastic;PUR3;ortholog
Serine hydroxymethyltransferase 7;SHM7;ortholog
UPF0051 protein ABC18, chloroplastic;ABC18;ortholog
Proteasome subunit alpha type-1-B;PAF2;ortholog
Cysteine/Histidine-rich C1 domain family protein;MJB20.16;ortholog
UDP-glycosyltransferase 72B1;UGT72B1;ortholog
F-box protein At5g41490;At5g41490;ortholog
UDP-glycosyltransferase 79B4;UGT79B4;ortholog
AT4g29790/F27B13_30;At4g29790;ortholog
Cysteine proteinases superfamily protein;At1g37020;ortholog
Putative non-LTR reverse transcriptase;F11F8_9;ortholog
Uncharacterized protein;At3g51644;ortholog
Probable plastid-lipid-associated protein 1, chloroplastic;PAP1;ortholog
Tmem18;At1g34350;ortholog
bZIP transcription factor 49;BZIP49;ortholog
Putative F-box protein At1g23770;At1g23770;ortholog
Plasma membrane fusion protein;At2g12400;ortholog
Elongation factor 1-alpha 2;A2;ortholog
Probable galacturonosyltransferase 10;GAUT10;ortholog
Pectin lyase-like superfamily protein;At2g15470;ortholog
Bifunctional inhibitor/lipid-transfer protein/seed storage 2S albumin superfamily protein;AtXYP13;ortholog
Pumilio homolog 15;APUM15;ortholog
F17F8.9;At1g30990;ortholog
Ureide permease 4;UPS4;ortholog
Probable disease resistance protein At5g47250;At5g47250;ortholog
Aspartyl protease family protein;At4g30040;ortholog
Pentatricopeptide repeat-containing protein At3g42630;At3g42630;ortholog

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Cysteine/Histidine-rich C1 domain family protein;At4g09690;ortholog
Disease resistance protein (NBS-LRR class) family;MX110.1;ortholog
Ankyrin repeat family protein;At3g04140;ortholog
Transmembrane protein;At2g12405;ortholog
Acid phosphatase/vanadium-dependent haloperoxidase-related protein;At3g12685;ortholog
Alanine--tRNA ligase;ALATS;ortholog
Elongation factor 1-alpha 4;A4;ortholog
AT3g20100/MAL21_14;CYP705A19;ortholog
Heavy metal-associated isoprenylated plant protein 24;HIP24;ortholog
LOW protein: cytochrome C biogenesis ccmF-like protein;At2g07815;ortholog
Secretory carrier-associated membrane protein 4;SCAMP4;ortholog
3-hydroxyisobutyryl-CoA hydrolase-like protein 4, mitochondrial;At3g24360;ortholog
Uncharacterized protein;At4g08691;ortholog
Nodulin homeobox;NDX;ortholog
Inhibitor/lipid-transfer protein/seed storage 2S albumin superfamily protein (DUF784);At5g34881;ortholog
Uncharacterized protein;At3g44704;ortholog
12-oxophytodienoate reductase 3;OPR3;ortholog
Uncharacterized protein;At5g35069;ortholog
Myosin heavy chain-like protein;At1g64320;ortholog
ECA1 gametogenesis related family protein;At5g36350;ortholog
Protein RALF-like 28;RALFL28;ortholog
Transmembrane protein, putative (DUF1216);At3g28790;ortholog
Glycosyl hydrolase family protein;At5g09700;ortholog
ECA1 gametogenesis related family protein;At5g36480;ortholog
Glycine-rich protein;At3g29033;ortholog
Protein C2-DOMAIN ABA-RELATED 10;CAR10;ortholog
Hydroxyproline-rich glycoprotein family protein;At5g34581;ortholog
TTF-type zinc finger protein with HAT dimerization domain-containing protein;At2g06541;ortholog
Serine/threonine-protein kinase ATG1c;ATG1C;ortholog
At4g32870;At4g32870;ortholog
Chaperone protein dnaJ-like protein;MNL12.8;ortholog
Alpha-(1,6)-fucosyltransferase;At5g28960;ortholog
Eukaryotic aspartyl protease family protein;At1g44130;ortholog
Transmembrane protein;At4g09260;ortholog
Transmembrane protein;At5g26270;ortholog
Elongation factor 1-alpha 3;A3;ortholog
Uncharacterized protein;At2g12935;ortholog
Germin-like protein subfamily 1 member 18;GLP2A;ortholog
F3O9.30;At1g16500;ortholog
WAT1-related protein At4g01440;At4g01440;ortholog
Ubiquitin-related modifier 1 homolog 2;URM1-2;ortholog
Uncharacterized protein;At2g06555;ortholog
Ubiquitin-conjugating enzyme E2 13;UBC13;ortholog
P-loop containing nucleoside triphosphate hydrolases superfamily protein;At2g01460;ortholog
Protein NETWORKED 3B;NET3B;ortholog
Cysteine rich peptide;At3g42565;ortholog
GEM-like protein 4;At5g08350;ortholog
Uncharacterized protein;At4g37095;ortholog
40S ribosomal protein S3-3;RPS3C;ortholog
1-aminocyclopropane-1-carboxylate oxidase;At2g06960;ortholog
Putative F-box protein At3g16210;At3g16210;ortholog

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ATP-dependent DNA helicase;At5g28780;ortholog
Zinc ion binding protein;At5g15690;ortholog
Uncharacterized protein;At1g36925;ortholog
Nuclease;At5g28730;ortholog
At3g16220;At3g16220;ortholog
CASP-like protein 4A4;At4g11655;ortholog
AT3g62460/T12C14_160;T12C14_160;ortholog
F-box protein At3g59150;At3g59150;ortholog
Transmembrane protein;At4g08406;ortholog
Auxin-responsive GH3 family protein;At1g48670;ortholog
Kinase family with leucine-rich repeat domain-containing protein;T1N24.22;ortholog
Polypyrimidine tract-binding protein homolog 3;At1g43190;ortholog
Putative F-box/kelch-repeat protein At5g28180;At5g28180;ortholog
DNA topoisomerase 1 alpha;TOP1A;ortholog
S-adenosyl-L-methionine-dependent methyltransferases superfamily protein;NAMT1;ortholog
Casein kinase 1-like protein 3;CKL3;ortholog
DNA-directed RNA polymerase subunit beta;At3g16200;ortholog
ECA1 gametogenesis related family protein;At5g36540;ortholog
Phosphopantetheine adenylyltransferase;COAD;ortholog
Ferredoxin-2, chloroplastic;FD2;ortholog
Expressed protein;At2g26680;ortholog
Serine/threonine-protein kinase AtPK2/AtPK19;ATPK2;ortholog
Cysteine/Histidine-rich C1 domain family protein;At5g42280;ortholog
Uncharacterized protein;At3g29560;ortholog
Rac-like GTP-binding protein ARAC1;ARAC1;ortholog
mRNA cap guanine-N7 methyltransferase 1;At3g20650;ortholog
Cytochrome b561 and DOMON domain-containing protein At5g35735;At5g35735;ortholog
Uncharacterized protein;At5g34869;ortholog
pEARL1-like lipid transfer protein 1;AZI1;ortholog
Myosin;At5g20450;ortholog
At4g33310;At4g33310;ortholog
Protein CIA1;CIA1;ortholog
Acetyl-CoA:benzylalcohol acetyltransferase-like protein;MZF18.15;ortholog
Putative protein phosphatase 2C-like protein 45;At3g27140;ortholog
At1g52905;At1g52905;ortholog
YTH family protein;At3g62499;ortholog
Elongation factor 1-alpha 1;A1;ortholog
Uncharacterized protein;At3g51642;ortholog
Bifunctional inhibitor/lipid-transfer protein/seed storage 2S albumin superfamily protein;LTPG6;ortholog
Uncharacterized protein;At1g20405;ortholog
Polynucleotidyl transferase, ribonuclease H-like superfamily protein;MLM24.4;ortholog
Putative F-box protein At4g09870;At4g09870;ortholog
SAUR-like auxin-responsive protein family;SAUR75;ortholog
Transcription repressor MYB6;MYB6;ortholog
Uncharacterized protein;At5g03944;ortholog
Pectinesterase 31;PME31;ortholog
Nitrilase 3;NIT3;ortholog
Uncharacterized protein;At5g20460;ortholog
Methyltransferase-like protein;At1g54650;ortholog
Cysteine/Histidine-rich C1 domain family protein;At1g61840;ortholog
Uncharacterized protein;At3g28918;ortholog

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NAC domain-containing protein 19;NAC019;ortholog
Putative BTB/POZ domain-containing protein At2g05330;At2g05330;ortholog
Vacuolar protein sorting-associated protein 29;VPS29;ortholog
Pentatricopeptide repeat-containing protein At5g13770, chloroplastic;At5g13770;ortholog
Tetratricopeptide repeat (TPR)-like superfamily protein;T32B20.g;ortholog
At1g23340;At1g23340;ortholog
Myosin heavy chain-like protein;At2g15420;ortholog
LOW protein: ATP-dependent RNA helicase DRS1-like protein;At5g28610;ortholog
General transcription factor 2-related zinc finger protein;At1g41920;ortholog
ARM repeat superfamily protein;At5g15680;ortholog
Putative CCR4-associated factor 1 homolog 3;CAF1-3;ortholog
Long chain acyl-CoA synthetase 7, peroxisomal;LACS7;ortholog
Thylakoid lumenal P17.1 protein;T15B3_160;ortholog
Jacalin-related lectin 48;JAL48;ortholog
DUF724 domain-containing protein 3;DUF3;ortholog
DUF21 domain-containing protein At1g47330;CBSDUF7;ortholog
Putative protein phosphatase 2C 53;At4g08260;ortholog
XH domain-containing protein;At2g16490;ortholog
Putative F-box protein At3g24700;At3g24700;ortholog
Protein tesmin/TSO1-like CXC 6;TCX6;ortholog
Leucine-rich repeat protein kinase family protein;LRR-RLK;ortholog
Putative germin-like protein subfamily 1 member 12;At5g38960;ortholog
Uncharacterized protein;At5g54450;ortholog
Cyclin-B2-3;CYCB2-3;ortholog
Inorganic phosphate transporter family protein;At4g08895;ortholog
4-alpha-glucanotransferase DPE2;DPE2;ortholog
Forkhead-associated (FHA) domain-containing protein;emb1967;ortholog
Protection of telomeres protein 1a;POT1A;ortholog
Transcription factor UPBEAT-like protein;At5g39240;ortholog
Probable disease resistance protein At4g33300;At4g33300;ortholog
Aspartyl protease family protein;At4g30030;ortholog
Microtubule-associated protein 70-2;MAP70.2;ortholog
Uncharacterized protein At2g10920;At2g10920;ortholog
Mucin-like protein, putative (DUF1216);At3g28830;ortholog
At5g08360;At5g08360;ortholog
Small nuclear ribonucleoprotein family protein;At2g14285;ortholog
Ubiquinol oxidase 1b, mitochondrial;AOX1B;ortholog
AT5G38890 protein;At5g38890;ortholog
ATP synthase subunit a-1;ATP6-1;ortholog
Folate receptor family protein;At5g27830;ortholog
Putative protein FAR1-RELATED SEQUENCE 10;FRS10;ortholog
ABC transporter B family member 27;ABCB27;ortholog
Toll-Interleukin-Resistance (TIR) domain family protein;At1g52900;ortholog
Polyubiquitin 12;UBQ12;ortholog
Heat shock protein;At3g22530;ortholog
GDSL esterase/lipase At4g10955;At4g10955;ortholog
Pentatricopeptide repeat-containing protein At4g31070, mitochondrial;PCMP-E7;ortholog
Class II aminoacyl-tRNA and biotin synthetases superfamily protein;At5g27800;ortholog
Putative F-box protein At5g39460;At5g39460;ortholog
At5g27810;At5g27810;ortholog
RING-H2 finger protein ATL60;ATL60;ortholog

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Pentatricopeptide repeat-containing protein At1g04840;PCMP-H64;ortholog
BTB/POZ domain-containing protein At2g13690;PRL1-IFG;ortholog
S-protein homolog 17;SPH17;ortholog
F12M16.3;At1g53163;ortholog
Rieske (2Fe-2S) domain-containing protein;PSB33;ortholog
RBR-type E3 ubiquitin transferase;F9K21.90;ortholog
Cytochrome P450 71A24;CYP71A24;ortholog
Defensin-like protein 293;At2g04925;ortholog
NAD(P)-binding Rossmann-fold superfamily protein;At5g15940;ortholog
RNase II-like 1;RTL1;ortholog
Uncharacterized protein;At5g25870;ortholog
Probable F-box protein At3g56670;At3g56670;ortholog
Uncharacterized protein;At1g43810;ortholog
Transmembrane protein;At1g36380;ortholog
Putative reverse transcriptase/RNA-dependent DNA polymerase;At4g29090;ortholog
At2g42950;At2g42950;ortholog
AT4g07350 protein;At4g07350;ortholog
RNA-binding protein CP29B, chloroplastic;CP29B;ortholog
Beta-glucosidase 42;BGLU42;ortholog
Adenylosuccinate lyase;At1g36280;ortholog
Zinc ion binding protein;At2g07505;ortholog
Beta-adaptin-like protein B;BETAB-AD;ortholog
At5g18540;At5g18540;ortholog
Peroxidase 8;PER8;ortholog
Calcium-dependent lipid-binding (CaLB domain) plant phosphoribosyltransferase family protein;At4g20080;ortholog
tRNA wybutosine-synthesizing protein 2/3/4;At4g04670;ortholog
ATP synthase subunit a;atp6;ortholog
Transcription factor DYT1;DYT1;ortholog
AT4g03150/F4C21_7;At4g03150;ortholog
Putative glucose-6-phosphate/phosphate-translocator-like protein 1;At4g03950;ortholog
Autophagy-like protein;At2g40313;ortholog
Acytransferase-like protein;MXF12.90;ortholog
Uncharacterized protein;At3g24690;ortholog
Eukaryotic aspartyl protease family protein;At3g42550;ortholog
Putative B3 domain-containing protein At4g03160;At4g03160;ortholog
Putative cysteine-rich receptor-like protein kinase 34;CRK34;ortholog
Leucine-rich repeat (LRR) family protein;At1g33610;ortholog
Transducin family protein / WD-40 repeat family protein;At1g71840;ortholog
AGAMOUS-like 76;AGL76;ortholog
F-box protein At3g22700;At3g22700;ortholog
Mucin-like protein;At2g02880;ortholog
NADP-dependent malic enzyme 3;NADP-ME3;ortholog
TRAF-like family protein;At5g26290;ortholog
S-adenosyl-L-methionine-dependent methyltransferases superfamily protein;At4g01240;ortholog
Putative F-box protein At3g22710;At3g22710;ortholog
ECA1 gametogenesis related family protein;At5g36310;ortholog
Arginase 2, chloroplastic/mitochondrial;ARGAH2;ortholog
Uncharacterized protein;At1g36920;ortholog
Pumilio homolog 23;APUM23;ortholog
Transcription initiation factor TFIID subunit 11b;TAF11B;ortholog
TRAM, LAG1 and CLN8 (TLC) lipid-sensing domain containing protein;At1g45010;ortholog

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Transmembrane protein;At1g36622;ortholog
Disease resistance protein (TIR-NBS class);At1g72890;ortholog
At2g07725;rpl5;ortholog
Uncharacterized protein At1g65760;At1g65760;ortholog

PANTHER Family/Subfamily

TRANSCRIPTION ACTIVATOR GLK1 (PTHR31312:SF1)
WRKY TRANSCRIPTION FACTOR 1 (PTHR31221:SF125)
LEUCINE-RICH REPEAT TRANSMEMBRANE PROTEIN KINASE PROTEIN-RELATED (PTHR45631:SF81)
VACUOLAR PROTEIN SORTING-ASSOCIATED PROTEIN 72 HOMOLOG (PTHR13275:SF4)
SERINE/THREONINE-PROTEIN KINASE SRK2A-RELATED (PTHR24343:SF450)
PROTEIN HIGH ARSENIC CONTENT 1, MITOCHONDRIAL-RELATED (PTHR44542:SF14)
G-PATCH DOMAIN AND KOW MOTIFS-CONTAINING PROTEIN (PTHR15818:SF2)

5'-NUCLEOTIDASE ALR3139-RELATED (PTHR30457:SF5)
JACALIN-RELATED LECTIN 34-RELATED (PTHR47293:SF7)
F-BOX ASSOCIATED UBIQUITINATION EFFECTOR FAMILY PROTEIN (PTHR47993:SF181)
WALL-ASSOCIATED RECEPTOR KINASE-LIKE 17-RELATED (PTHR27005:SF297)
PROTEIN, PUTATIVE (DUF 3339)-RELATED (PTHR33128:SF46)
1-ACYL-SN-GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE (PTHR35473:SF3)
ZINC FINGER CCCH DOMAIN-CONTAINING PROTEIN 37 (PTHR12547:SF63)
GLYCOSYLTRANSFERASE (PTHR10811:SF27)
F-BOX ASSOCIATED UBIQUITINATION EFFECTOR FAMILY PROTEIN (PTHR31790:SF176)
SPLICING FACTOR 3B SUBUNIT 5 (PTHR20978:SF0)
BNAC05G21980D PROTEIN (PTHR22835:SF623)
CALMODULIN-BINDING RECEPTOR-LIKE CYTOPLASMIC KINASE 3 (PTHR27003:SF43)
OS05G0411600 PROTEIN (PTHR15672:SF15)
ABC SUBFAMILY C PROTEIN (PTHR34962:SF3)
NAGB/RPIA/COA TRANSFERASE-LIKE SUPERFAMILY PROTEIN (PTHR45860:SF3)
BIFUNCTIONAL INHIBITOR/LIPID-TRANSFER PROTEIN/SEED STORAGE 2S ALBUMIN SUPERFAMILY PROT
ACYL CARRIER PROTEIN 5, CHLOROPLASTIC (PTHR46153:SF12)
PHOTOSYSTEM II STABILITY/ASSEMBLY FACTOR HCF136, CHLOROPLASTIC (PTHR47199:SF2)
RECEPTOR-LIKE PROTEIN 36-RELATED (PTHR27004:SF365)
HEAVY METAL TRANSPORT/DETOXIFICATION SUPERFAMILY PROTEIN (PTHR46119:SF11)
OS02G0567000 PROTEIN (PTHR37237:SF1)
EXOCYST SUBUNIT EXO70 FAMILY PROTEIN (PTHR12542:SF38)
PROLINE IMINOPEPTIDASE (PTHR43722:SF1)

ACETYL-COA CARBOXYLASE, ISOFORM A (PTHR45728:SF3)
PHYTOCHROME C (PTHR43719:SF4)
EXTERNAL ALTERNATIVE NAD(P)H-UBIQUINONE OXIDOREDUCTASE B4, MITOCHONDRIAL (PTHR43706:S
CYSTEINE/HISTIDINE-RICH C1 DOMAIN FAMILY PROTEIN (PTHR32410:SF157)
DEHYDRATION-RESPONSIVE ELEMENT-BINDING PROTEIN 2G (PTHR31241:SF49)
BZIP TRANSCRIPTION FACTOR FAMILY PROTEIN-RELATED (PTHR13690:SF117)
METAL-NICOTIANAMINE TRANSPORTER YSL2 (PTHR31645:SF44)
OS01G0167700 PROTEIN (PTHR37722:SF2)

E3 UBIQUITIN-PROTEIN LIGASE WAVH1 (PTHR10579:SF113)
PLANT SELF-INCOMPATIBILITY PROTEIN S1 FAMILY-RELATED (PTHR31232:SF54)
E3 UBIQUITIN PROTEIN LIGASE DRIPH-RELATED (PTHR46293:SF3)

P-LOOP CONTAINING NUCLEOSIDE TRIPHOSPHATE HYDROLASES SUPERFAMILY PROTEIN (PTHR10887:
PEROXIDASE 31 (PTHR31517:SF11)

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VQ MOTIF-CONTAINING PROTEIN 29 (PTHR34794:SF3)
TRANSCRIPTION INITIATION FACTOR TFIID SUBUNIT 15 (PTHR12999:SF17)
ALLYL ALCOHOL DEHYDROGENASE, NADP-DEPENDENT OXIDOREDUCTASE-LIKE PROTEIN-RELATED (P
FERRITIN (PTHR11431:SF75)
PROTEIN SHI RELATED SEQUENCE 6 (PTHR31604:SF28)

CYSTEINE-RICH RECEPTOR-LIKE PROTEIN KINASE 36 (PTHR27002:SF389)

PROTEIN INVOLVED IN DE NOVO 2-RELATED (PTHR21596:SF65)

KINESIN-LIKE PROTEIN KIN-12E (PTHR24115:SF914)
CYCLIN-K (PTHR10026:SF51)
PHOSPHATIDYLGLYCEROL/PHOSPHATIDYLINOSITOL TRANSFER PROTEIN DDB_G0282179-RELATED (PTI

E3 UBIQUITIN-PROTEIN LIGASE RF298-RELATED (PTHR46405:SF4)
40S RIBOSOMAL PROTEIN S27-RELATED (PTHR11594:SF7)

PROTEIN, PUTATIVE (DUF1068)-RELATED (PTHR32254:SF13)
PROTEIN TIC 21, CHLOROPLASTIC (PTHR34548:SF2)
HOMEBOX-LEUCINE ZIPPER PROTEIN HDG10-RELATED (PTHR45654:SF9)

MA3 DOMAIN-CONTAINING PROTEIN (PTHR12626:SF2)
HISTONE DEACETYLASE 11 (PTHR43497:SF2)
PECTIN LYASE-LIKE SUPERFAMILY PROTEIN (PTHR31339:SF3)
BERBERINE BRIDGE ENZYME-LIKE 17 (PTHR32448:SF16)
CYTOCHROME P450 705A1-RELATED (PTHR24298:SF630)
CYSTEINE RICH PEPTIDE-RELATED (PTHR31181:SF54)
F-BOX ONLY PROTEIN 8 (PTHR31111:SF14)
CYSTEINE-RICH RECEPTOR-LIKE PROTEIN KINASE 37 (PTHR27002:SF528)
ANKYRIN REPEAT FAMILY PROTEIN (PTHR24177:SF117)
PROLYL 4-HYDROXYLASE 3-RELATED (PTHR10869:SF192)

DEHYDRIN HIRD11 (PTHR34941:SF1)
RBR-TYPE E3 UBIQUITIN TRANSFERASE (PTHR11685:SF371)
SUCCINATE DEHYDROGENASE SUBUNIT 7A, MITOCHONDRIAL-RELATED (PTHR36041:SF2)
BETA-1,3 GLUCANASE (PTHR31044:SF79)
ENDOPLASMIC RETICULUM CHAPERONE BIP (PTHR19375:SF144)
CHLORIDE CHANNEL PROTEIN CLC-D (PTHR11689:SF143)
BIFUNCTIONAL INHIBITOR/LIPID-TRANSFER PROTEIN/SEED STORAGE 2S ALBUMIN SUPERFAMILY PROT
JACALIN-RELATED LECTIN 34-RELATED (PTHR47293:SF7)
BNAC06G30620D PROTEIN (PTHR13018:SF104)
MEMBRANE LIPOPROTEIN-RELATED (PTHR39113:SF1)
BNAC03G30070D PROTEIN (PTHR34049:SF6)
CTP SYNTHASE-RELATED (PTHR11550:SF0)
HEXOKINASE-4 (PTHR19443:SF70)
SYNTAXIN-RELATED FAMILY PROTEIN (PTHR32141:SF18)
AUXIN-BINDING PROTEIN 1 (PTHR37236:SF1)
CYSTEINE RICH PEPTIDE-RELATED (PTHR31181:SF54)
LONG-CHAIN-ALCOHOL O-FATTY-ACYLTRANSFERASE 1-RELATED (PTHR31595:SF45)

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TRANSCRIPTION FACTOR TT2 (PTHR47998:SF42)
OS07G0578800 PROTEIN (PTHR24015:SF1854)

ATP BINDING PROTEIN (PTHR11017:SF358)
BNAA06G10150D PROTEIN (PTHR31197:SF32)
UBIQUITIN DOMAIN-CONTAINING PROTEIN 7SL RNA1-RELATED (PTHR10621:SF38)
PROTEIN ROOT UVB SENSITIVE 4 (PTHR12770:SF29)
PROTEIN PHOSPHATASE 2C 10-RELATED (PTHR13832:SF723)
INORGANIC PHOSPHATE TRANSPORTER FAMILY PROTEIN-RELATED (PTHR24064:SF551)
ELONGATION FACTOR 2 (PTHR42908:SF10)

UBIQUITIN DOMAIN-CONTAINING PROTEIN 7SL RNA1-RELATED (PTHR10621:SF38)
NDR1/HIN1-LIKE PROTEIN 10 (PTHR31415:SF4)
BETA-1,4-MANNOSYL-GLYCOPROTEIN 4-BETA-N-ACETYLGLUCOSAMINYLTRANSFERASE (PTHR12224:SF1)
BZIP TRANSCRIPTION FACTOR FAMILY PROTEIN-RELATED (PTHR13690:SF117)
E3 UBIQUITIN-PROTEIN LIGASE SINA-LIKE 1-RELATED (PTHR46632:SF11)
RHO GTPASE-ACTIVATING PROTEIN GACA (PTHR23177:SF35)
BNAA03G47080D PROTEIN (PTHR31033:SF21)
BREVIS RADIX-LIKE PROTEIN-RELATED (PTHR46058:SF27)
BNAA04G12750D PROTEIN (PTHR23070:SF96)
ZINC FINGER CCCH DOMAIN-CONTAINING PROTEIN 30 (PTHR14493:SF118)
MEDIATOR OF RNA POLYMERASE II TRANSCRIPTION SUBUNIT 21 (PTHR13381:SF0)
E3 UBIQUITIN-PROTEIN LIGASE SINA-LIKE 11-RELATED (PTHR10315:SF131)
E3 UBIQUITIN-PROTEIN LIGASE BOI (PTHR42647:SF35)
TRIFUNCTIONAL PURINE BIOSYNTHETIC PROTEIN ADENOSINE-3 (PTHR43369:SF2)
SERINE HYDROXYMETHYLTRANSFERASE 7 (PTHR11680:SF7)
UPF0051 PROTEIN ABCI8, CHLOROPLASTIC-RELATED (PTHR30508:SF1)
PROTEASOME SUBUNIT ALPHA TYPE-1 (PTHR11599:SF12)
CHP-RICH ZINC FINGER PROTEIN-LIKE-RELATED (PTHR32410:SF168)
UDP-GLYCOSYLTRANSFERASE 72B1 (PTHR48045:SF11)
F-BOX ASSOCIATED UBIQUITINATION EFFECTOR FAMILY PROTEIN (PTHR47993:SF37)
UDP-GLYCOSYLTRANSFERASE 79B4-RELATED (PTHR48049:SF20)
BNAA01G07190D PROTEIN (PTHR31115:SF6)
CYSTEINE PROTEINASES SUPERFAMILY PROTEIN-RELATED (PTHR31470:SF44)
NON-LTR RETROELEMENT REVERSE TRANSCRIPTASE-RELATED (PTHR46736:SF20)

PLASTID-LIPID-ASSOCIATED PROTEIN 1, CHLOROPLASTIC-RELATED (PTHR31906:SF17)
TRANSMEMBRANE PROTEIN 18 (PTHR22593:SF2)
BASIC-LEUCINE ZIPPER TRANSCRIPTION FACTOR F-RELATED (PTHR47416:SF3)
F-BOX PROTEIN SKIP22 (PTHR47602:SF2)
TRANSMEMBRANE PROTEIN DDB_G0292058 (PTHR31414:SF15)
ELONGATION FACTOR 1-ALPHA 1-RELATED (PTHR23115:SF269)
GALACTURONOSYLTRANSFERASE 10-RELATED (PTHR32116:SF74)
GLYCOSIDE HYDROLASE FAMILY 28 PROTEIN-RELATED (PTHR31375:SF10)
BIFUNCTIONAL INHIBITOR/LIPID-TRANSFER PROTEIN/SEED STORAGE 2S ALBUMIN SUPERFAMILY PROTEIN
PUMILIO HOMOLOG 15 (PTHR12537:SF63)
F17F8.9-RELATED (PTHR31338:SF19)
UREIDE PERMEASE 4 (PTHR31081:SF13)
DISEASE RESISTANCE PROTEIN RFL1-RELATED (PTHR23155:SF896)
ASPARTYL PROTEASE UND-RELATED (PTHR47967:SF13)
OS08G0520200 PROTEIN (PTHR47493:SF1)

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CYSTEINE/HISTIDINE-RICH C1 DOMAIN FAMILY PROTEIN-RELATED (PTHR32410:SF154)
DISEASE RESISTANCE PROTEIN (NBS-LRR CLASS) FAMILY-RELATED (PTHR11017:SF411)
ANKYRIN REPEAT FAMILY PROTEIN (PTHR24126:SF43)

ACID PHOSPHATASE/VANADIUM-DEPENDENT HALOPEROXIDASE-RELATED PROTEIN (PTHR31446:SF2)
ALANINE--TRNA LIGASE, CYTOPLASMIC (PTHR11777:SF34)
ELONGATION FACTOR 1-ALPHA 1-RELATED (PTHR23115:SF269)
CYTOCHROME P450 705A20-RELATED (PTHR24298:SF541)
HEAVY METAL-ASSOCIATED ISOPRENYLATED PLANT PROTEIN 24 (PTHR22814:SF84)
LOW PROTEIN: CYTOCHROME C BIOGENESIS CCMF-LIKE PROTEIN (PTHR36010:SF2)
SECRETORY CARRIER-ASSOCIATED MEMBRANE PROTEIN 4 (PTHR10687:SF15)
3-HYDROXYISOBUTYRYL-COA HYDROLASE-LIKE PROTEIN 4, MITOCHONDRIAL (PTHR43176:SF5)

NODULIN HOMEBOX (PTHR35743:SF1)
BIFUNCTIONAL INHIBITOR/LIPID-TRANSFER PROTEIN/SEED STORAGE 2S ALBUMIN SUPERFAMILY PROT

12-OXOPHYTODIENOATE REDUCTASE 3 (PTHR22893:SF112)

MYOSIN HEAVY CHAIN-LIKE PROTEIN (PTHR47357:SF4)
CYSTEINE RICH PEPTIDE-RELATED (PTHR31181:SF54)
PROTEIN RALF-LIKE 16-RELATED (PTHR34270:SF1)
PROTEIN, PUTATIVE (DUF1216)-RELATED (PTHR31607:SF19)
BETA-D-XYLOSIDASE 4-RELATED (PTHR42721:SF14)
CYSTEINE RICH PEPTIDE-RELATED (PTHR31181:SF54)

PROTEIN C2-DOMAIN ABA-RELATED 10 (PTHR45933:SF12)

SERINE/THREONINE-PROTEIN KINASE ULK3 (PTHR24348:SF22)
POLYKETIDE CYCLASE/DEHYDRASE AND LIPID TRANSPORTER (PTHR31213:SF24)
CHAPERONE PROTEIN DNAJ-LIKE PROTEIN (PTHR34687:SF1)
ALPHA-(1,6)-FUCOSYLTRANSFERASE (PTHR13132:SF29)
EUKARYOTIC ASPARTYL PROTEASE FAMILY PROTEIN (PTHR13683:SF227)

ELONGATION FACTOR 1-ALPHA 1-RELATED (PTHR23115:SF269)

GERMIN-LIKE PROTEIN SUBFAMILY 1 MEMBER 16-RELATED (PTHR31238:SF123)
F3O9.30 (PTHR33177:SF44)
WAT1-RELATED PROTEIN (PTHR31218:SF301)
UBIQUITIN-RELATED MODIFIER 1 (PTHR14986:SF4)

UBIQUITIN-CONJUGATING ENZYME E2 13 (PTHR24067:SF298)
P-LOOP CONTAINING NUCLEOSIDE TRIPHOSPHATE HYDROLASES SUPERFAMILY PROTEIN (PTHR10285:
PROTEIN NETWORKED 3A-RELATED (PTHR32258:SF28)
CYSTEINE RICH PEPTIDE-RELATED (PTHR31181:SF54)
GEM-LIKE PROTEIN 4 (PTHR31969:SF38)

40S RIBOSOMAL PROTEIN S3-3 (PTHR11760:SF47)
1-AMINOCYCLOPROPANE-1-CARBOXYLATE OXIDASE-RELATED (PTHR47990:SF172)
BNAC05G37170D PROTEIN (PTHR31790:SF234)

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ATP-DEPENDENT DNA HELICASE (PTHR23274:SF33)
MEDIATOR OF RNA POLYMERASE II TRANSCRIPTION SUBUNIT 21 (PTHR13381:SF0)

BNAA01G28130D PROTEIN (PTHR13360:SF2)
CASP-LIKE PROTEIN 4A4 (PTHR33573:SF15)
EMB
F-BOX/RNI SUPERFAMILY PROTEIN-RELATED (PTHR31639:SF29)

AUXIN-RESPONSIVE GH3 FAMILY PROTEIN (PTHR31901:SF52)
KINASE FAMILY WITH LEUCINE-RICH REPEAT DOMAIN-CONTAINING PROTEIN (PTHR48054:SF21)
POLYPYRIMIDINE TRACT-BINDING PROTEIN HOMOLOG 3 (PTHR15592:SF35)
BNAC01G00630D PROTEIN (PTHR24414:SF77)
DNA TOPOISOMERASE 1 ALPHA (PTHR10290:SF16)
S-ADENOSYL-L-METHIONINE-DEPENDENT METHYLTRANSFERASES SUPERFAMILY PROTEIN (PTHR31009:SF1)
CASEIN KINASE 1-LIKE PROTEIN 3-RELATED (PTHR11909:SF97)
DNA-DIRECTED RNA POLYMERASE SUBUNIT BETA (PTHR36362:SF1)
CYSTEINE RICH PEPTIDE-RELATED (PTHR31181:SF54)
PHOSPHOPANTETHEINE ADENYLYLTRANSFERASE (PTHR10695:SF50)
FERREDOXIN-2, CHLOROPLASTIC (PTHR43112:SF3)
EXPRESSED PROTEIN (PTHR34203:SF13)
SERINE/THREONINE-PROTEIN KINASE ATPK2/ATPK19 (PTHR24351:SF217)
CYSTEINE/HISTIDINE-RICH C1 DOMAIN FAMILY PROTEIN (PTHR32410:SF157)

RAC-LIKE GTP-BINDING PROTEIN ARAC1 (PTHR24072:SF179)
MRNA CAP GUANINE-N7 METHYLTRANSFERASE (PTHR12189:SF2)
CYTOCHROME B561 AND DOMON DOMAIN-CONTAINING PROTEIN (PTHR23130:SF199)

LIPID TRANSFER PROTEIN EARLI 1-RELATED (PTHR31731:SF77)

CYTOSOLIC IRON-SULFUR PROTEIN ASSEMBLY PROTEIN CIAO1-RELATED (PTHR19920:SF0)
ACETYL-COA:BENZYLALCOHOL ACETYLTRANSFERASE-LIKE PROTEIN (PTHR31623:SF43)
PROTEIN PHOSPHATASE 2C FAMILY PROTEIN-RELATED (PTHR13832:SF759)

ELONGATION FACTOR 1-ALPHA 1-RELATED (PTHR23115:SF269)

BIFUNCTIONAL INHIBITOR/LIPID-TRANSFER PROTEIN/SEED STORAGE 2S ALBUMIN SUPERFAMILY PROTEIN

GB
BNAC09G21430D PROTEIN (PTHR47993:SF83)
AUXIN-RESPONSIVE PROTEIN SAUR62-RELATED (PTHR31175:SF50)
TRANSCRIPTION FACTOR MYB8-RELATED (PTHR47999:SF35)

PECTINESTERASE 31 (PTHR31321:SF12)
NITRILASE 1-RELATED (PTHR46044:SF11)

O-METHYLTRANSFERASE 3 (PTHR22809:SF5)
CYSTEINE/HISTIDINE-RICH C1 DOMAIN FAMILY PROTEIN (PTHR32410:SF181)

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NAC DOMAIN-CONTAINING PROTEIN 19 (PTHR31719:SF114)
BNAA05G13360D PROTEIN (PTHR47274:SF15)
VACUOLAR PROTEIN SORTING-ASSOCIATED PROTEIN 29 (PTHR11124:SF12)
OSJNBA0088A01.11 PROTEIN (PTHR47934:SF14)
PRE-MRNA-SPLICING FACTOR SYF1 (PTHR11246:SF5)
BNAA08G20520D PROTEIN (PTHR31589:SF97)
MEIOSIS-SPECIFIC PROTEIN ASY2-RELATED (PTHR31099:SF18)

GENERAL TRANSCRIPTION FACTOR 2-RELATED ZINC FINGER PROTEIN-RELATED (PTHR11697:SF206)
PROTEIN FURRY (PTHR12295:SF30)
CCR4-ASSOCIATED FACTOR 1 HOMOLOG 3-RELATED (PTHR10797:SF57)
LONG CHAIN ACYL-COA SYNTHETASE 7, PEROXISOMAL (PTHR43272:SF68)
THYLAKOID LUMENAL P17.1 PROTEIN (PTHR15852:SF52)
JACALIN-RELATED LECTIN 13-RELATED (PTHR47293:SF11)
DUF724 DOMAIN-CONTAINING PROTEIN 3 (PTHR31917:SF103)
BNAA05G17810D PROTEIN (PTHR12064:SF76)
PROTEIN PHOSPHATASE 2C FAMILY PROTEIN-RELATED (PTHR13832:SF759)
FACTOR OF DNA METHYLATION 1-RELATED (PTHR21596:SF3)
OS10G0484632 PROTEIN (PTHR31790:SF403)
PROTEIN LIN-54 HOMOLOG (PTHR12446:SF34)
LEUCINE-RICH REPEAT PROTEIN KINASE FAMILY PROTEIN (PTHR48054:SF30)
GERMIN-LIKE PROTEIN SUBFAMILY 1 MEMBER 10-RELATED (PTHR31238:SF106)
EMB
CYCLIN-B2-3-RELATED (PTHR10177:SF494)
INORGANIC PHOSPHATE TRANSPORTER FAMILY PROTEIN-RELATED (PTHR24064:SF551)
4-ALPHA-GLUCANOTRANSFERASE DPE2 (PTHR32518:SF3)
MICROSPHERULE PROTEIN 1 (PTHR13233:SF0)
PROTECTION OF TELOMERES PROTEIN 1A-RELATED (PTHR14513:SF5)
TRANSCRIPTION FACTOR UPBEAT-LIKE PROTEIN (PTHR33124:SF57)
DISEASE RESISTANCE PROTEIN ADR1 (PTHR11017:SF296)
ASPARTYL PROTEASE UND-RELATED (PTHR47967:SF13)
MICROTUBULE-ASSOCIATED PROTEIN 70-2 (PTHR31246:SF17)

PROTEIN, PUTATIVE (DUF1216)-RELATED (PTHR31607:SF19)
GB
SMALL NUCLEAR RIBONUCLEOPROTEIN F (PTHR11021:SF0)
UBIQUINOL OXIDASE 1B, MITOCHONDRIAL-RELATED (PTHR31803:SF18)
EXOSOME COMPLEX COMPONENT CSL4 (PTHR12686:SF8)
ATP SYNTHASE SUBUNIT A (PTHR11410:SF0)
FOLATE RECEPTOR FAMILY PROTEIN (PTHR10517:SF20)
PROTEIN FAR1-RELATED SEQUENCE 10-RELATED (PTHR31669:SF174)
ABC TRANSPORTER B FAMILY MEMBER 27 (PTHR24221:SF547)
TOLL-INTERLEUKIN-RESISTANCE (TIR) DOMAIN FAMILY PROTEIN (PTHR31008:SF16)
POLYUBIQUITIN 12 (PTHR10666:SF361)
17.6 KDA CLASS II HEAT SHOCK PROTEIN-RELATED (PTHR33879:SF3)
ALPHA/BETA-HYDROLASES SUPERFAMILY PROTEIN (PTHR31479:SF2)
PPR CONTAINING PLANT-LIKE PROTEIN (PTHR24015:SF1880)

BNAC04G31510D PROTEIN (PTHR31370:SF3)
AGAMOUS-LIKE MADS-BOX PROTEIN AGL80 (PTHR11945:SF387)
RING-H2 FINGER PROTEIN ATL60 (PTHR45676:SF46)

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TETRATRICOPEPTIDE REPEAT-LIKE SUPERFAMILY PROTEIN ISOFORM 1 (PTHR24015:SF1865)
OS04G0278000 PROTEIN (PTHR31060:SF33)
PLANT SELF-INCOMPATIBILITY PROTEIN S1 FAMILY-RELATED (PTHR31232:SF54)

RIESKE (2FE-2S) DOMAIN-CONTAINING PROTEIN (PTHR43456:SF2)
RBR-TYPE E3 UBIQUITIN TRANSFERASE (PTHR11685:SF284)
CYTOCHROME P450 71A21-RELATED (PTHR47956:SF4)

OXIDOREDUCTASE ENV9-RELATED (PTHR24320:SF148)
RNASE II-LIKE 1 (PTHR14950:SF54)

TRANSMEMBRANE PROTEIN (PTHR37192:SF2)

BNAA04G24710D PROTEIN (PTHR46950:SF3)

RNA-BINDING PROTEIN CP29B, CHLOROPLASTIC (PTHR48025:SF10)
BETA-GLUCOSIDASE 42 (PTHR10353:SF186)
ADENYLOSUCCINATE LYASE (PTHR43411:SF1)

BETA-ADAPTIN-LIKE PROTEIN B (PTHR11134:SF30)
OS07G0669600 PROTEIN (PTHR37255:SF1)
PEROXIDASE 44-RELATED (PTHR31235:SF90)
C2 DOMAIN-CONTAINING PROTEIN-RELATED (PTHR45707:SF34)
TRNA WYBUTOSINE-SYNTHESIZING PROTEIN 2 HOMOLOG (PTHR23245:SF25)
ATP SYNTHASE SUBUNIT A (PTHR11410:SF0)
TRANSCRIPTION FACTOR DYT1 (PTHR31945:SF20)
EXPRESSED PROTEIN (PTHR36776:SF1)
GLUCOSE-6-PHOSPHATE/PHOSPHATE-TRANSLOCATOR-LIKE PROTEIN 1-RELATED (PTHR11132:SF362)
AUTOPHAGY-LIKE PROTEIN (PTHR15071:SF0)
ACYLTRANSFERASE-LIKE PROTEIN-RELATED (PTHR31625:SF26)
BNAC03G29820D PROTEIN (PTHR37736:SF2)
EUKARYOTIC ASPARTYL PROTEASE FAMILY PROTEIN (PTHR13683:SF375)
B3 DOMAIN PLANT PROTEIN (PTHR31541:SF28)
CYSTEINE-RICH RECEPTOR-LIKE PROTEIN KINASE 34-RELATED (PTHR32099:SF64)
LEUCINE-RICH REPEAT (LRR) FAMILY PROTEIN (PTHR27004:SF335)
MITOCHONDRIAL DIVISION PROTEIN 1-RELATED (PTHR19857:SF8)
AGAMOUS-LIKE 105-RELATED (PTHR11945:SF472)
F-BOX ONLY PROTEIN 9-RELATED (PTHR47993:SF70)
MUCIN-LIKE PROTEIN (PTHR35476:SF2)
NADP-DEPENDENT MALIC ENZYME 3 (PTHR23406:SF64)
F9D12.8 PROTEIN-RELATED (PTHR46162:SF15)
S-ADENOSYL-L-METHIONINE-DEPENDENT METHYLTRANSFERASES SUPERFAMILY PROTEIN (PTHR44067)
F-BOX ONLY PROTEIN 9-RELATED (PTHR47993:SF70)
CYSTEINE RICH PEPTIDE-RELATED (PTHR31181:SF54)
ARGINASE 2, CHLOROPLASTIC/MITOCHONDRIAL (PTHR11358:SF32)

NUCLEOLAR PROTEIN 9 (PTHR13102:SF0)
TRANSCRIPTION INITIATION FACTOR TFIID SUBUNIT 11 (PTHR13218:SF8)
TRAM, LAG1 AND CLN8 (TLC) LIPID-SENSING DOMAIN CONTAINING PROTEIN (PTHR31898:SF2)

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DISEASE RESISTANCE PROTEIN (TIR-NBS CLASS) (PTHR11017:SF389)
60S RIBOSOMAL PROTEIN L5, MITOCHONDRIAL (PTHR11994:SF11)
ASCORBIC ACID MANNOSE PATHWAY REGULATOR-RELATED (PTHR47123:SF6)

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| PANTHER Protein Class | Species |
|---|--|
| DNA-directed RNA polymerase(PC00019) non-receptor serine/threonine protein kinase(PC00167) | Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana |
| RNA splicing factor(PC00148) | Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana |
| RNA binding protein(PC00031) glycosyltransferase(PC00111) | Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana |
| EIN-RELATED (PTHR31951:SF22) | Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana |
| membrane traffic protein(PC00150) serine protease(PC00203) | Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana |
| histidine kinase receptor of two-component system(PC00265) oxidoreductase(PC00176) | Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana |
| ion channel(PC00133) | Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana |
| RNA helicase(PC00032);DNA helicase(PC00011) | Arabidopsis thaliana Arabidopsis thaliana Arabidopsis thaliana |

pantherGeneList

| | |
|--|----------------------|
| RNA splicing factor(PC00148) | Arabidopsis thaliana |
| reductase(PC00198) | Arabidopsis thaliana |
| storage protein(PC00210) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| microtubule binding motor protein(PC00156) | Arabidopsis thaliana |
| kinase activator(PC00138) | Arabidopsis thaliana |
| HR11306:SF50) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| ribosomal protein(PC00202) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| translation factor(PC00223) | Arabidopsis thaliana |
| histone modifying enzyme(PC00261) | Arabidopsis thaliana |
| lyase(PC00144) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| scaffold/adaptor protein(PC00226) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| ubiquitin-protein ligase(PC00234) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| EIN (PTHR33214:SF20) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| ligase(PC00142) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |

pantherGeneList

| | |
|---|----------------------|
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| damaged DNA-binding protein(PC00086) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| protein phosphatase(PC00195) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| translation elongation factor(PC00222) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| damaged DNA-binding protein(PC00086) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| glycosyltransferase(PC00111) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| cytoskeletal protein(PC00085) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| DNA-directed RNA polymerase(PC00019) | Arabidopsis thaliana |
| ubiquitin-protein ligase(PC00234) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| transferase(PC00220) | Arabidopsis thaliana |
| methyltransferase(PC00155) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| translation factor(PC00223) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| EIN (PTHR33044:SF89) | Arabidopsis thaliana |
| RNA binding protein(PC00031) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| antimicrobial response protein(PC00051) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |

pantherGeneList

| | |
|---|----------------------|
| aminoacyl-tRNA synthetase(PC00047) | Arabidopsis thaliana |
| translation factor(PC00223) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| transfer/carrier protein(PC00219) | Arabidopsis thaliana |
| hydrolase(PC00121) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| EIN-RELATED (PTHR31951:SF22) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| oxidoreductase(PC00176) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| glucosidase(PC00108) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| non-receptor serine/threonine protein kinase(PC00167) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| glycosyltransferase(PC00111) | Arabidopsis thaliana |
| aspartic protease(PC00053) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| translation factor(PC00223) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| nucleotide kinase(PC00172) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| ribosomal protein(PC00202) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |

pantherGeneList

| | |
|---|------------------------------|
| DNA helicase(PC00011) | Arabidopsis thaliana |
| DNA-directed RNA polymerase(PC00019) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| CAB71865.1-RELATED (PTHR14379:SF14) | RNA binding protein(PC00031) |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| non-motor actin binding protein(PC00165) | Arabidopsis thaliana |
| DNA topoisomerase(PC00017) | Arabidopsis thaliana |
| };SF116) | Arabidopsis thaliana |
| non-receptor serine/threonine protein kinase(PC00167) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| kinase(PC00137) | Arabidopsis thaliana |
| reductase(PC00198) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| small GTPase(PC00208) | Arabidopsis thaliana |
| RNA methyltransferase(PC00033) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| protein phosphatase(PC00195) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| translation factor(PC00223) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| EIN (PTHR33044:SF194) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| AAF30348.1-RELATED (PTHR47074:SF33) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| methyltransferase(PC00155) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |

pantherGeneList

| | |
|---|----------------------|
| vesicle coat protein(PC00235) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| RNA splicing factor(PC00148) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| scaffold/adaptor protein(PC00226) | Arabidopsis thaliana |
| mRNA polyadenylation factor(PC00146) | Arabidopsis thaliana |
| ligase(PC00142) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| protein phosphatase(PC00195) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| CAB89038.1 (PTHR31681:SF79) | Arabidopsis thaliana |
| kinase activator(PC00138) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| DNA binding protein(PC00009) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| AAD11584.1 (PTHR31343:SF50) | Arabidopsis thaliana |
| RNA splicing factor(PC00148) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| exoribonuclease(PC00099) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| ATP-binding cassette (ABC) transporter(PC00003) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| MADS box transcription factor(PC00250) | Arabidopsis thaliana |
| | Arabidopsis thaliana |

pantherGeneList

| | |
|--|----------------------|
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| ubiquitin-protein ligase(PC00234) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| dehydrogenase(PC00092) | Arabidopsis thaliana |
| endodeoxyribonuclease(PC00093);endoribonuclease(PC00094) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| glycosidase(PC00110) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| membrane traffic protein(PC00150) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| RNA methyltransferase(PC00033) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| secondary carrier transporter(PC00258) | Arabidopsis thaliana |
| membrane traffic protein(PC00150) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| aspartic protease(PC00053) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| MADS box transcription factor(PC00250) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| oxidoreductase(PC00176) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| 7:SF1) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| hydrolase(PC00121) | Arabidopsis thaliana |
| | Arabidopsis thaliana |
| RNA binding protein(PC00031) | Arabidopsis thaliana |
| general transcription factor(PC00259) | Arabidopsis thaliana |
| | Arabidopsis thaliana |

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ribosomal protein(PC00202)

Arabidopsis thaliana
Arabidopsis thaliana
Arabidopsis thaliana
Arabidopsis thaliana

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Arabidopsis thaliana

Arabidopsis thaliana

Arabidopsis thaliana

Arabidopsis thaliana