

pantherGeneList

Supplementary Table 3. List of genes with DMRs intersecting their -2500 bp promoter regi

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ARATH TAIR=locus=2009457	UniProtKB=Q7X9H1	AT1G22590
ARATH TAIR=locus=2091050	UniProtKB=Q9LUM0	AT3G14270
ARATH TAIR=locus=2057584	UniProtKB=P93017	AT2G33830
ARATH EnsemblGenome=AT2G30750	UniProtKB=O49340	AT2G30750
ARATH TAIR=locus=2090582	UniProtKB=Q9LUM6	AT3G17710
ARATH TAIR=locus=2049721	UniProtKB=Q9ZUU4	AT2G37220
ARATH TAIR=locus=2167479	UniProtKB=Q9FIW4	AT5G36890
ARATH TAIR=locus=2193864	UniProtKB=Q4TU44	AT1G55430
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ARATH TAIR=locus=2060326	UniProtKB=Q9SHS2	AT2G13440
ARATH TAIR=locus=2051990	UniProtKB=O82198	AT2G19820
ARATH TAIR=locus=504955522	UniProtKB=Q1PEB1	AT4G08025
ARATH TAIR=locus=2177147	UniProtKB=Q9FID0	AT5G39110
ARATH TAIR=locus=2088832	UniProtKB=Q38957	AT3G26600
ARATH TAIR=locus=2057991	UniProtKB=C0LGM1	AT2G37050
ARATH TAIR=locus=2123076	UniProtKB=Q9LD55	AT4G11420
ARATH TAIR=locus=2051935	UniProtKB=F4ITH6	AT2G19850
ARATH TAIR=locus=1009023427	UniProtKB=Q2V315	AT5G44973
ARATH TAIR=locus=2141025	UniProtKB=Q1PE74	AT4G17860
ARATH TAIR=locus=2027539	UniProtKB=Q8GYP8	AT1G56610

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ARATH	TAIR=locus=2137415	UniProtKB=Q9STN3	AT4G08350
ARATH	TAIR=locus=2157829	UniProtKB=Q9FGZ4	AT5G49520
ARATH	TAIR=locus=2130759	UniProtKB=Q8VYK7	AT4G16520
ARATH	TAIR=locus=4515103122	UniProtKB=B3H7L4	AT3G25014
ARATH	TAIR=locus=4010713612	UniProtKB=A8MRC1	AT2G03667
ARATH	TAIR=locus=2075601	UniProtKB=F4JAD0	AT3G47160
ARATH	TAIR=locus=2089735	UniProtKB=F4IZ03	AT3G28190
ARATH	TAIR=locus=2137961	UniProtKB=Q9SMS0	AT4G09350
ARATH	TAIR=locus=2158901	UniProtKB=Q9FHK1	AT5G36200
ARATH	TAIR=locus=2155705	UniProtKB=Q94AM1	AT5G65620
ARATH	TAIR=locus=4010713982	UniProtKB=A8MRP6	AT5G34882
ARATH	TAIR=locus=2046648	UniProtKB=Q9SJ98	AT2G24670
ARATH	TAIR=locus=2153759	UniProtKB=Q9FKC9	AT5G37980
ARATH	TAIR=locus=2028326	UniProtKB=Q9LQM7	AT1G32330
ARATH	TAIR=locus=504955925	UniProtKB=F4IMA4	AT2G07774
ARATH	TAIR=locus=2202805	UniProtKB=B9DFI7	AT1G26850
ARATH	TAIR=locus=2134438	UniProtKB=F4JNR2	AT4G29750
ARATH	TAIR=locus=2182202	UniProtKB=Q3E9C3	AT5G19210
ARATH	TAIR=locus=4010713519	UniProtKB=Q1G3E7	AT1G36622
ARATH	TAIR=locus=2199357	UniProtKB=Q9C9G7	AT1G68320
ARATH	TAIR=locus=504955717	UniProtKB=F4J479	AT3G29636
ARATH	TAIR=locus=2137849	UniProtKB=O81414	AT4G02310
ARATH	TAIR=locus=2151734	UniProtKB=Q8W4C8	AT5G37680

on, identified via the Gene Ontology database

Gene name; Gene symbol

Vesicle-associated protein 4-3;PVA43;ortholog
 40S ribosomal protein S29;RPS29C;ortholog
 BTB/POZ domain-containing protein At5g60050;At5g60050;ortholog
 Beta-amylase 5;BAM5;ortholog
 Mitochondrial substrate carrier family protein;At4g11440;ortholog
 Calcium-binding protein CML38;CML38;ortholog
 AT5G06180 protein;MBL20.6;ortholog
 Core-2/l-branching beta-1,6-N-acetylglucosaminyltransferase family protein;At3g24040;ortholog
 Protein DETOXIFICATION 6;DTX6;ortholog
 Probable glycerol-3-phosphate acyltransferase 3;GPAT3;ortholog
 RING finger family protein;At4g39140;ortholog
 Protein MICRORCHIDIA 5;MORC5;ortholog
 At2g17300;At2g17300;ortholog
 At4g25020;At4g25020;ortholog
 At1g30880;At1g30880;ortholog
 ARM repeat superfamily protein;emb2734;ortholog
 Pentatricopeptide repeat-containing protein At4g02750;PCMP-H24;ortholog
 Aspartic proteinase A3;APA3;ortholog
 Protein STAY-GREEN LIKE, chloroplastic;SGRL;ortholog
 Glycine-rich protein;At3g29075;ortholog
 AT3g14620/MIE1_12;CYP72A8;ortholog
 Dihydropyrimidinase;PYD2;ortholog
 Putative F-box protein At3g23970;At3g23970;ortholog
 Chaperone DnaJ-domain superfamily protein;At5g37750;ortholog
 PEARL1 4 protein;pEARL14;ortholog
 RNA-binding (RRM/RBD/RNP motifs) family protein;At1g73490;ortholog
 DC1 domain-containing protein;At4g02180;ortholog
 Uncharacterized protein;At5g22608;ortholog
 Protein PLANT CADMIUM RESISTANCE 4;PCR4;ortholog
 Calcium load-activated calcium channel;T21B14.22;ortholog
 UDP-D-glucuronate carboxy-lyase-like protein;At2g28755;ortholog
 Squalene epoxidase 5;SQE5;ortholog
 Expressed protein;At2g11910;ortholog
 DNA-3-methyladenine glycosylase;MAG;ortholog
 Beta-glucuronosyltransferase GlcAT14A;GLCAT14A;ortholog
 Uncharacterized protein;At1g19394;ortholog
 RBR-type E3 ubiquitin transferase;F5D14.10;ortholog
 Amino acid transporter AVT6A;AVT6A;ortholog
 Probable glucomannan 4-beta-mannosyltransferase 11;CSLA11;ortholog
 40S ribosomal protein S9-2;RPS9C;ortholog
 At4g15730;At4g15730;ortholog
 ABC transporter B family member 14;ABCB14;ortholog
 Adenylate kinase 5, chloroplastic;At5g35170;ortholog
 At4g08240;At4g08240;ortholog
 Ethylene-responsive transcription factor 1B;ERF1B;ortholog
 At5g40830;MHK7.6;ortholog
 Dirigent protein 18;DIR18;ortholog
 Probable glucomannan 4-beta-mannosyltransferase 14;CSLA14;ortholog

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Cold shock domain-containing protein 4;CSP4;ortholog
AT4g00890 protein;A_TM018A10.5;ortholog
Transmembrane protein;F27K19_190;ortholog
Transmembrane protein;At2g29180;ortholog
Phytochrome C;PHYC;ortholog
Protein REVEILLE 2;RVE2;ortholog
GDSL esterase/lipase At2g03980;At2g03980;ortholog
Annexin D1;ANN1;ortholog
GATA transcription factor 1;GATA1;ortholog
Phosphatidylinositol N-acetylglucosaminyltransferase subunit P-like protein;TRM13;ortholog
E3 ubiquitin-protein ligase WAVH1;WAVH1;ortholog
Putative receptor-like protein 16;RLP16;ortholog
Patched family protein;At1g42470;ortholog
Protein SENSITIVITY TO RED LIGHT REDUCED 1;SRR1;ortholog
MLO-like protein 1;MLO1;ortholog
Nuclear cap-binding protein subunit 1;ABH1;ortholog
Transcription initiation factor TFIID subunit 15;TAF15;ortholog
Sec1/munc18-like (SM) proteins superfamily;At4g36100;ortholog
Uncharacterized protein;At2g41082;ortholog
ADP-ribosylation factor B1B;ADP-ribosylation factor B1B;ortholog
Protein TRANSPARENT TESTA 1;TT1;ortholog
Cysteine/Histidine-rich C1 domain family protein;At2g02610;ortholog
Mediator of RNA polymerase II transcription subunit;At2g01300;ortholog
Pumilio homolog 11;APUM11;ortholog
At4g36090;At4g36090;ortholog
Basic leucine zipper 23;BZIP23;ortholog
Glutathione S-transferase U4;GSTU4;ortholog
Zinc finger protein GIS;GIS;ortholog
Dbj;BAA84809.1;ortholog
Nucleolar GTP-binding protein;At1g22230;ortholog
Glutathione S-transferase U5;GSTU5;ortholog
Putative endonuclease or glycosyl hydrolase;At3g61028;ortholog
Secretory carrier-associated membrane protein 2;SCAMP2;ortholog
bZIP transcription factor 60;BZIP60;ortholog
Putative defensin-like protein 184;LCR18;ortholog
Cytochrome P450 81D11;CYP81D11;ortholog
Bifunctional inhibitor/lipid-transfer protein/seed storage 2S albumin superfamily protein;At3g22580;ortholog
Haloacid dehalogenase-like hydrolase (HAD) superfamily protein;At3g29760;ortholog
Abscisic acid receptor PYR1;PYR1;ortholog
Cytochrome P450 superfamily protein;At2g12190;ortholog
Pentatricopeptide repeat-containing protein At2g17525, mitochondrial;At2g17525;ortholog
Uncharacterized protein;At3g29790;ortholog
Alpha/beta hydrolase related protein;At2g40095;ortholog
Probable WRKY transcription factor 41;WRKY41;ortholog
Protein CASP;CASP;ortholog
AT3g27560/MMJ24_11;ATN1;ortholog
Pumilio homolog 9;APUM9;ortholog
At2g47350;At2g47350;ortholog
Ribonuclease inhibitor;At1g47885;ortholog
Metalloendoproteinase 1-MMP;1MMP;ortholog
Calmodulin binding protein;At1g76705;ortholog

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Pentatricopeptide repeat-containing protein At2g39230, mitochondrial;LOJ;ortholog
Transmembrane protein;At2g04360;ortholog
Probable carboxylesterase 7;CXE7;ortholog
S-adenosylmethionine synthase 4;METK4;ortholog
O-fucosyltransferase 11;OFUT11;ortholog
Protein PSY2;PSY2;ortholog
Putative defensin-like protein 303;At5g46873;ortholog
Transmembrane protein;At2g02440;ortholog
Nucleotidyl transferase superfamily protein;At2g01220;ortholog
NHL domain-containing protein;At5g28660;ortholog
Sphingosine-1-phosphate lyase;DPL1;ortholog
Expressed protein;At5g49015;ortholog
Putative aluminum-activated malate transporter 11;ALMT11;ortholog
Receptor protein kinase-like protein ZAR1;ZAR1;ortholog
Uncharacterized protein At2g13430;At2g13430;ortholog
Cupredoxin superfamily protein;At2g31050;ortholog
Transcription factor MYB26;MYB26;ortholog
Uncharacterized protein At5g39865;At5g39865;ortholog
NAD(P)-linked oxidoreductase superfamily protein;At1g14345;ortholog
Chitinase family protein;At3g47540;ortholog
Cysteine-rich receptor-like protein kinase 37;CRK37;ortholog
UDP-glycosyltransferase 76E7;UGT76E7;ortholog
Importin subunit alpha-7;IMPA7;ortholog
Putative F-box protein At5g15670;At5g15670;ortholog
Leucine-rich repeat protein kinase family protein;At1g51805;ortholog
Cytochrome P450 71B38;CYP71B38;ortholog
At4g02075;Pit1;ortholog
Probable prolyl 4-hydroxylase 3;P4H3;ortholog
At5g63240;MDC12.21;ortholog
No-apical-meristem-associated carboxy-terminal domain protein;At2g13760;ortholog
Heat shock protein DnaJ with tetratricopeptide repeat-containing protein;TPR15;ortholog
Zinc finger protein CONSTANS-LIKE 3;COL3;ortholog
RPW8-like protein 3;HR3;ortholog
Acetyl-CoA acetyltransferase, cytosolic 1;AAT1;ortholog
Serine carboxypeptidase-like 41;SCPL41;ortholog
Serine/threonine-protein kinase Nek1;NEK1;ortholog
Delta-9 acyl-lipid desaturase 2;ADS2;ortholog
Glycine-rich protein 3 short isoform;GRP3S;ortholog
Paraxanthine methyltransferase 1;PXMT1;ortholog
Agamous-like MADS-box protein AGL80;AGL80;ortholog
AT4g36960/C7A10_400;AP22.66;ortholog
Ulp1 protease family protein;At2g10260;ortholog
Uncharacterized protein;At3g18282;ortholog
SNF2 domain-containing protein / helicase domain-containing protein / zinc finger protein-like protein;EDA16;ortho
Jacalin-related lectin 5;JAL5;ortholog
F-box protein At4g05010;At4g05010;ortholog
Origin of replication complex subunit 1A;ORC1A;ortholog
T10F20.8 protein;At1g18070;ortholog
Ankyrin repeat-containing protein At2g01680;At2g01680;ortholog
Phosphate transporter PHO1 homolog 8;PHO1-H8;ortholog
SKP1-like protein 16;ASK16;ortholog

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Gibberellin 3-beta-dioxygenase 3;GA3OX3;ortholog
Pentatricopeptide repeat-containing protein At5g56310;PCMP-E13;ortholog
Uncharacterized protein;MWJ3.8;ortholog
Uncharacterized protein;At4g16530;ortholog
At2g04495;At2g04495;ortholog
DEAD-box ATP-dependent RNA helicase 24;RH24;ortholog
At1g04790;At1g04790;ortholog
Glutathione reductase, chloroplastic;EMB2360;ortholog
At5g55460;MTE17.17;ortholog
Putative chloride channel-like protein CLC-g;CLC-G;ortholog
Mitogen-activated protein kinase kinase 21;MAPKKK21;ortholog
Cystatin/monellin superfamily protein;At4g03565;ortholog
Polyadenylate-binding protein 5;PAB5;ortholog
Glycine-rich protein;At5g28630;ortholog
LRR protein;At5g58880;ortholog
Probable F-box protein At3g44130;At3g44130;ortholog
At5g38000;At5g38000;ortholog
F-box associated ubiquitination effector family protein;F13I12.180;ortholog
Protein root UVB sensitive 4;RUS4;ortholog
Protein cornichon homolog 5;At4g12090;ortholog
NDR1/HIN1-like protein 10;NHL10;ortholog
ABC transporter G family member 41;ABCG41;ortholog
At2g31140;At2g31140;ortholog
Proteasome subunit alpha type-5-A;PAE1;ortholog
Uncharacterized protein;At1g43320;ortholog
Probable WRKY transcription factor 64;WRKY64;ortholog
3-oxo-5-alpha-steroid 4-dehydrogenase (DUF1295);At2g46890;ortholog
5'-adenylsulfate reductase-like 6;APRL6;ortholog
Protein CDC73 homolog;CDC73;ortholog
Delta-1-pyrroline-5-carboxylate synthase B;P5CSB;ortholog
F16F4.7 protein;F16F4.7;ortholog
Acetylornithine deacetylase;At4g17830;ortholog
Haloacid dehalogenase-like hydrolase (HAD) superfamily protein;At1g43610;ortholog
Protein POLAR LOCALIZATION DURING ASYMMETRIC DIVISION AND REDISTRIBUTION;POLAR;ortholog
At2g24860/F27C12.22;At2g24860;ortholog
General transcription factor 2-related zinc finger protein;At3g29450;ortholog
SCD6 protein-like protein;At4g19340;ortholog
Uncharacterized protein At1g23150;At1g23150;ortholog
RNA-binding (RRM/RBD/RNP motifs) family protein;MNF13.1;ortholog
Purple acid phosphatase 3;PAP3;ortholog
PIN domain-like family protein;At2g02550;ortholog
HD domain-containing metal-dependent phosphohydrolase family protein;MSN9.190;ortholog
WRKY family transcription factor;At3g32090;ortholog
Dynamin-related protein 1A;DRP1A;ortholog
LOB domain-containing protein 41;LBD41;ortholog
Protein RALF-like 3;RALFL3;ortholog
CBL-interacting serine/threonine-protein kinase 6;CIPK6;ortholog
10-formyltetrahydrofolate synthetase;At2g12200;ortholog
Tobamovirus multiplication protein 2A;TOM2A;ortholog
Sucrose transport protein SUC8;SUC8;ortholog
Transmembrane protein;F12K2.15;ortholog

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Phosphoglucan phosphatase LSF2, chloroplastic;LSF2;ortholog
Kanadaplin-like protein;At5g38840;ortholog
Calmodulin-like protein 10;CML10;ortholog
Probable inactive L-type lectin-domain containing receptor kinase III.1;LECRK31;ortholog
Eukaryotic translation initiation factor isoform 4E;EIF(ISO)4E;ortholog
Putative E3 ubiquitin-protein ligase SINA-like 6;At5g37870;ortholog
Ribonuclease TUDOR 2;TSN2;ortholog
Phosphoribosylglycinamide formyltransferase, chloroplastic;PUR3;ortholog
At1g34320;PSI1;ortholog
Glucan endo-1,3-beta-glucosidase 2;At1g66250;ortholog
Uncharacterized protein;At1g76994;ortholog
AT5g35440/MOK9_2;MOK9.1;ortholog
Transcription factor ALC;ALC;ortholog
NEP-interacting protein, putative (DUF239);At4g10220;ortholog
Photosystem I chlorophyll a/b-binding protein 3-1, chloroplastic;LHCA3;ortholog
Mediator of RNA polymerase II transcription subunit 8;MED8;ortholog
Uncharacterized protein;At3g17190;ortholog
Probable UDP-3-O-acyl-N-acetylglucosamine deacetylase 5, mitochondrial;LPXC5;ortholog
Uncharacterized GPI-anchored protein At5g19240;At5g19240;ortholog
AT5g13970/MAC12_6;MAC12.6;ortholog
Peptidase C13 family;At1g08750;ortholog
Probable envelope ADP,ATP carrier protein, chloroplastic;EAAC;ortholog
60S ribosomal protein L6-1;RPL6A;ortholog
Mto 1 responding up 1;MRU1;ortholog
F-box protein At4g18380;At4g18380;ortholog
Putative cullin-like protein 4;At3g46910;ortholog
PLATZ transcription factor family protein;At1g43000;ortholog
Polyamine-modulated factor 1-binding protein;At4g36105;ortholog
Tetratricopeptide repeat (TPR)-like superfamily protein;At1g56090;ortholog
Structural maintenance of chromosomes protein 1;SMC1;ortholog
At3g17740;At3g17740;ortholog
RNA-binding (RRM/RBD/RNP motifs) family protein;At1g14340;ortholog
Transcription factor BOA;BOA;ortholog
Protein OSB2, chloroplastic;OSB2;ortholog
Uncharacterized protein;At1g24148;ortholog
Persulfide dioxygenase ETHE1 homolog, mitochondrial;GLY3;ortholog
Agenet domain-containing protein;MSG15.17;ortholog
Putative ABC1 protein At2g40090;At2g40090;ortholog
Transmembrane protein;At1g19397;ortholog
At2g44240/F411.5;At2g44240;ortholog
(+)-neomenthol dehydrogenase;SDR1;ortholog
Disease resistance protein (NBS-LRR class) family;MXI10.1;ortholog
F-box/kelch-repeat protein OR23;OR23;ortholog
Uncharacterized protein At2g07000;At2g07000;ortholog
RING finger family protein;At3g05545;ortholog
Probable calcium-binding protein CML17;CML17;ortholog
Fucosyltransferase 6;FUT6;ortholog
Expressed protein;At2g14880;ortholog
WAT1-related protein At5g13670;At5g13670;ortholog
CASP-like protein 4A1;At5g40300;ortholog
S-type anion channel SLAH3;SLAH3;ortholog

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SAGA-associated factor 11;SGF11;ortholog
Polyketide cyclase/dehydrase and lipid transport superfamily protein;At1g70870;ortholog
Ubiquitin carboxyl-terminal hydrolase 10;UBP10;ortholog
V-type proton ATPase subunit c4;VHA-c4;ortholog
F-box/kelch-repeat protein At3g44120;At3g44120;ortholog
Nuclease;At2g13770;ortholog
Chitinase-like protein 2;CTL2;ortholog
Uncharacterized GPI-anchored protein At5g19250;At5g19250;ortholog
AT5g13210/T31B5_30;At5g13210;ortholog
At1g27000/T7N9_6;At1g27000;ortholog
Uncharacterized protein;At2g29452;ortholog
Pumilio homolog 1;APUM1;ortholog
Precursor of CEP3;CEP3;ortholog
Inactive LRR receptor-like serine/threonine-protein kinase BIR2;BIR2;ortholog
Putative cytochrome c biosynthesis ccmC-like mitochondrial protein;ABC15;ortholog
Putative F-box/kelch-repeat protein At2g29800;At2g29800;ortholog
Berberine bridge enzyme-like 25;At5g44390;ortholog
Defensin-like protein 175;At1g49715;ortholog
Cystatin/monellin superfamily protein;At5g17100;ortholog
FBD-associated F-box protein At5g56380;At5g56380;ortholog
Acid beta-fructofuranosidase 3, vacuolar;BFRUCT3;ortholog
Jacalin-related lectin 17;JAL17;ortholog
Gibberellin 2-beta-dioxygenase 7;GA2OX7;ortholog
F-box/kelch-repeat protein At2g29600;At2g29600;ortholog
Uncharacterized protein;At3g29791;ortholog
NAP1-related protein 2;NRP2;ortholog
3-hydroxyisobutyryl-CoA hydrolase-like protein 4, mitochondrial;At3g24360;ortholog
Uncharacterized protein At2g24780;At2g24780;ortholog
ABSCISIC ACID-INSENSITIVE 5-like protein 4;ABF1;ortholog
Glutathione S-transferase Z2;GSTZ2;ortholog
Uncharacterized protein;At5g65609;ortholog
Protein trichome birefringence-like 13;TBL13;ortholog
Uncharacterized protein;At5g35069;ortholog
Uncharacterized protein At5g60840;MAE1.8;ortholog
Short-chain dehydrogenase/reductase SDRA;SDRA;ortholog
Geranylgeranyl pyrophosphate synthase 7, chloroplastic;At2g18620;ortholog
Transposase-associated domain protein;At2g06667;ortholog
Uncharacterized protein;At3g17712;ortholog
S-locus glycoprotein family protein;At2g24620;ortholog
RNA polymerase II transcriptional coactivator KELP;KELP;ortholog
Pentatricopeptide repeat-containing protein At3g25210, mitochondrial;At3g25210;ortholog
Transmembrane protein;At3g44700;ortholog
NAC domain-containing protein 100;NAC100;ortholog
Plant self-incompatibility protein S1 family;At5g26090;ortholog
Pentatricopeptide repeat-containing protein At3g47530;PCMP-H76;ortholog
Aquaporin SIP1-1;SIP1-1;ortholog
Myelin-associated oligodendrocyte basic protein;At1g54520;ortholog
tRNA (carboxymethyluridine(34)-5-O)-methyltransferase;TRM9;ortholog
Putative F-box/FBD/LRR-repeat protein At5g22610;At5g22610;ortholog
U6 small nuclear RNA (adenine-(43)-N(6))-methyltransferase;FIO1;ortholog
Vacuolar protein sorting-associated protein 55 homolog;At1g32410;ortholog

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Uncharacterized protein;At4g06490;ortholog
Protein PLANT CADMIUM RESISTANCE 7;PCR7;ortholog
Auxin-responsive protein SAUR62;SAUR62;ortholog
DNA repair protein RadA-like protein;MXI22.5;ortholog
C2 domain-containing protein At1g53590;NTMC2T6.1;ortholog
UDP-glycosyltransferase 78D2;UGT78D2;ortholog
Arogenate dehydratase/prephenate dehydratase 1, chloroplastic;ADT1;ortholog
N6-adenosine-methyltransferase non-catalytic subunit MTB;MTB;ortholog
Ankyrin repeat family protein;At1g04780;ortholog
CHP-rich zinc finger protein-like;MMG4.3;ortholog
Transmembrane protein;At1g02570;ortholog
F-box/kelch-repeat protein;At3g22345;ortholog
BEL1-like homeodomain protein 9;BLH9;ortholog
Uncharacterized protein;At1g56423;ortholog
Probable protein phosphatase 2C 52;At4g03415;ortholog
Glycine-rich protein 3;GRP3;ortholog
L-type lectin-domain containing receptor kinase IX.2;LECRK92;ortholog
Oligopeptide transporter 7;OPT7;ortholog
AtPP-like protein;F28D10_60;ortholog
Regulator of Vps4 activity in the MVB pathway protein;At1g34220;ortholog
GATA transcription factor 4;GATA4;ortholog
Uncharacterized protein;At1g32337;ortholog
Serine/threonine-protein kinase BSK2;BSK2;ortholog
Uncharacterized protein;MTI20.7;ortholog
At2g04340;At2g04340;ortholog
Expressed protein;At2g46900;ortholog
Transmembrane protein;At1g65490;ortholog
40S ribosomal protein S16-1;RPS16A;ortholog
Defensin-like protein 204;At3g05727;ortholog
Protein kinase superfamily protein;At3g17410;ortholog
Phenylalanine ammonia-lyase 3;PAL3;ortholog
B3 domain-containing transcription factor ABI3;ABI3;ortholog
Protein GID8 homolog;GID8;ortholog
Probable germin-like protein subfamily 2 member 5;At5g26700;ortholog
WAT1-related protein At4g01440;At4g01440;ortholog
Kinesin-like protein KIN-14U;KIN14U;ortholog
Uncharacterized protein At4g15545;At4g15545;ortholog
EG45-like domain containing protein 2;EGC2;ortholog
TRAF-like family protein;At1g31380;ortholog
Probable F-box protein At1g44080;At1g44080;ortholog
Carbohydrate-binding X8 domain superfamily protein;At1g66870;ortholog
Uncharacterized protein;At3g26742;ortholog
Peptidase C78, ubiquitin fold modifier-specific peptidase 1/ 2;MXC17.7;ortholog
Receptor-like protein 6;RLP6;ortholog
Uncharacterized protein;At5g28491;ortholog
Acyl-CoA N-acyltransferases (NAT) superfamily protein;At2g32020;ortholog
Putative F-box protein At1g71320;At1g71320;ortholog
Transcription factor UNE12;UNE12;ortholog
Cyclin-dependent protein kinase inhibitor SMR8;SMR8;ortholog
Zinc finger CCCH domain-containing protein 67;At5g63260;ortholog
Probable pectate lyase 20;At5g48900;ortholog

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DNA glycosylase/AP lyase ROS1;ROS1;ortholog
Plant self-incompatibility protein S1 family;At2g24870;ortholog
Alpha/beta-Hydrolases superfamily protein;At1g56630;ortholog
F3F9.1;At1g78480;ortholog
Cysteine--tRNA ligase 2, cytoplasmic;At5g38830;ortholog
Zinc finger MYM-type-like protein;At4g09660;ortholog
Ferric reduction oxidase 7, chloroplastic;FRO7;ortholog
At5g63250;MDC12.22;ortholog
Uncharacterized protein;At1g25370;ortholog
Zinc knuckle (CCHC-type) family protein;F18P9_20;ortholog
At1g10280;At1g10280;ortholog
Peptidyl-tRNA hydrolase, mitochondrial;At5g19830;ortholog
Ubiquitin carboxyl-terminal hydrolase-related protein;At1g65200;ortholog
At1g78490;"cytochrome P450;ortholog
Wall-associated receptor kinase-like 6;WAKL6;ortholog
AT5g50310/MXI22_1;MXI22.1;ortholog
Bromo-adjacent homology (BAH) domain-containing protein;T15B3_130;ortholog
Photosynthetic NDH subunit of lumenal location 5, chloroplastic;PNL5;ortholog
Histone-lysine N-methyltransferase, H3 lysine-9 specific SUVH1;SUVH1;ortholog
AAA-ATPase At5g57480;At5g57480;ortholog
Cyclin-dependent kinase inhibitor 1;KRP1;ortholog
GDSL esterase/lipase At2g04020;At2g04020;ortholog
Spermine synthase;SPMS;ortholog
Uncharacterized protein;At1g13550;ortholog
60S ribosomal protein L23;RPL23C;ortholog
Cytochrome B/B6 protein;At2g07773;ortholog
Dynamin-2A;DRP2A;ortholog
Calmodulin-binding transcription activator 6;CAMTA6;ortholog
Ribulose biphosphate carboxylase large chain, catalytic domain-containing protein;At2g07732;ortholog
ATP-dependent DNA helicase;At4g30780;ortholog
S-adenosyl-L-methionine-dependent methyltransferases superfamily protein;At5g26180;ortholog
Bifunctional inhibitor/lipid-transfer protein/seed storage 2S albumin superfamily protein;At3g22620;ortholog
Uncharacterized protein F12A4.10;At1g35500;ortholog
Nucleoporin GLE1-like protein;At4g05523;ortholog
50S ribosomal-like protein;At1g66890;ortholog
At3g30430;At3g30430;ortholog
Scarecrow-like protein 9;SCL9;ortholog
Aha1 domain-containing protein;T21B14.13;ortholog
At2g17740;At2g17740;ortholog
40S ribosomal protein S18;RPS18C;ortholog
At1g27960;ECT9;ortholog
Probable inactive purple acid phosphatase 27;PAP27;ortholog
DUF21 domain-containing protein At2g14520;CBSDUF3;ortholog
Serine carboxypeptidase-like 44;SCPL44;ortholog
Protein NIM1-INTERACTING 2;NIMIN-2;ortholog
Protein disulfide-isomerase 5-2;PDIL5-2;ortholog
Putative defensin-like protein 114;At5g42223;ortholog
Probable disease resistance protein At4g19530;At4g19530;ortholog
At4g33310;At4g33310;ortholog
Uncharacterized protein;At2g07669;ortholog
WAT1-related protein At1g43650;At1g43650;ortholog

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Subtilisin-like protease SBT5.3;AIR3;ortholog
Plant invertase/pectin methylesterase inhibitor superfamily protein;At1g09370;ortholog
Protein BIC2;BIC2;ortholog
Serine/threonine-protein kinase STN8, chloroplastic;STN8;ortholog
YTH family protein;At3g62499;ortholog
Glycerophosphodiester phosphodiesterase GDPD5;GDPD5;ortholog
Uncharacterized mitochondrial protein AtMg01030;At2g07673;ortholog
At4g18980;AtS40-3;ortholog
Leucine-rich repeat (LRR) family protein;At3g20820;ortholog
AGAMOUS-like 57;AGAMOUS-like 57;ortholog
Disease resistance protein (TIR-NBS-LRR class) family;At3g44630;ortholog
Expressed protein;At2g10970;ortholog
At1g13540;At1g13540;ortholog
Protein kinase superfamily protein;At1g33770;ortholog
ETHYLENE INSENSITIVE 3-like 1 protein;EIL1;ortholog
2-oxoglutarate (2OG) and Fe(II)-dependent oxygenase superfamily protein;At4g16770;ortholog
Plant invertase/pectin methylesterase inhibitor superfamily protein;At1g11362;ortholog
Receptor-like protein 43;RLP43;ortholog
At1g34630/F12K21.3;At1g34630;ortholog
Eukaryotic translation initiation factor 5A-2;ELF5A-2;ortholog
RING-H2 finger protein ATL56;ATL56;ortholog
Galactose-binding protein;At1g65210;ortholog
Protein ACCELERATED CELL DEATH 6;ACD6;ortholog
Serine/threonine-protein kinase-like protein CCR2;CCR2;ortholog
Thiol-disulfide oxidoreductase LTO1;LTO1;ortholog
F10A5.18;At1g75620;ortholog
Transmembrane protein (DUF616);AT4G09630.1;ortholog
O-fucosyltransferase 29;OFUT29;ortholog
Cytochrome b6-f complex iron-sulfur subunit, chloroplastic;petC;ortholog
F-box protein PP2-B1;PP2B1;ortholog
Inactive GDSL esterase/lipase-like protein 25;MVP1;ortholog
SEC-C motif protein;At3g04950;ortholog
Expressed protein;At2g24440;ortholog
NAC domain-containing protein 19;NAC019;ortholog
Uncharacterized protein;At1g13470;ortholog
NAC domain-containing protein 3;NAC003;ortholog
NAC domain-containing protein 71;NAC071;ortholog
NAD(P)-binding Rossmann-fold superfamily protein;At3g25880;ortholog
Probable ribose-5-phosphate isomerase 2;RPI2;ortholog
DNA ligase (DUF630 and DUF632);At5g25590;ortholog
Anthranilate synthase beta subunit;F4F7.41;ortholog
Germin-like protein subfamily 1 member 6;At3g04200;ortholog
Probable pectate lyase 5;At1g67750;ortholog
Cytochrome C oxidase polypeptide VIB family protein;At1g32720;ortholog
Protein LURP-one-related 6;At2g05910;ortholog
Ubiquitin-specific protease family C19-related protein;At1g31370;ortholog
Equilibrative nucleotide transporter 4;ENT4;ortholog
Myrosinase 5;TGG5;ortholog
Protein C2-DOMAIN ABA-RELATED 8;CAR8;ortholog
Putative defensin-like protein 244;SCRL11;ortholog
AT3g17750/MIG5_4;At3g17750;ortholog

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Mitovirus RNA-dependent RNA polymerase;At2g07749;ortholog
Probable calcium-binding protein CML41;CML41;ortholog
T-complex protein 11;At1g22930;ortholog
Protoporphyrinogen oxidase 1, chloroplastic;PPOX1;ortholog
Patatin-like protein 8;PLP8;ortholog
Classical arabinogalactan protein 5;AGP5;ortholog
Uncharacterized protein;At4g04972;ortholog
Chlorophyll a-b binding protein 2.1, chloroplastic;LHCB2.1;ortholog
Chaperone protein dnaJ 20, chloroplastic;ATJ20;ortholog
At3g60520;T8B10_180;ortholog
Ferric reduction oxidase 4;FRO4;ortholog
SNF1-related protein kinase catalytic subunit alpha KIN11;KIN11;ortholog
Pentatricopeptide repeat-containing protein At5g39980, chloroplastic;At5g39980;ortholog
Protein PHR1-LIKE 1;PHL1;ortholog
IQ-domain 11;IQ-domain 11;ortholog
Probable UDP-3-O-acyl-N-acetylglucosamine deacetylase 1, mitochondrial;LPXC1;ortholog
Probable galactinol--sucrose galactosyltransferase 5;RFS5;ortholog
At2g15220/F15A23.4;At2g15220;ortholog
Probable alpha-mannosidase At5g13980;At5g13980;ortholog
Probable disease resistance protein At4g33300;At4g33300;ortholog
AT4g11790/T5C23_220;At4g11790;ortholog
Cysteine/Histidine-rich C1 domain family protein;At2g21850;ortholog
CA-responsive protein;At1g17665;ortholog
Myosin heavy chain-like protein;MEE13;ortholog
Tetratricopeptide repeat (TPR)-like superfamily protein;At5g28340;ortholog
ATP-dependent zinc metalloprotease FTSH 9, chloroplastic;FTSH9;ortholog
At1g56700;At1g56700;ortholog
Cystathionine gamma-synthase 1, chloroplastic;CGS1;ortholog
Cytochrome P450 72A14;CYP72A14;ortholog
Defensin-like protein 267;At5g23035;ortholog
Geranylgeranyl transferase type-2 subunit beta 1;RGTB1;ortholog
Serine carboxypeptidase S28 family protein;At3g28680;ortholog
Got1/Sft2-like vesicle transport protein family;At1g05785;ortholog
Transmembrane protein;At1g02575;ortholog
Pectin acetyltransferase 8;PAE8;ortholog
Uncharacterized protein;At1g54920;ortholog
General transcription factor 2-related zinc finger protein;At5g35475;ortholog
S-protein homolog 3;SPH3;ortholog
AAA-ATPase At3g28510;At3g28510;ortholog
Putative membrane lipoprotein;At5g26692;ortholog
Protein ATAF2;NAC081;ortholog
High affinity nitrate transporter;At4g14358;ortholog
Cyclophilin;At1g44478;ortholog
F-box/FBD/LRR-repeat protein At5g44980;At5g44980;ortholog
Alpha-ketoglutarate-dependent dioxygenase alkB;At1g11780;ortholog
65-kDa microtubule-associated protein 7;MAP65-7;ortholog
AT4g02370 protein;At4g02370;ortholog
Uncharacterized protein;At3g25011;ortholog
Acetyl-CoA:benzylalcohol acetyltransferase-like protein;At5g47950;ortholog
Bifunctional inhibitor/lipid-transfer protein/seed storage 2S albumin superfamily protein;At3g22570;ortholog
Short-chain dehydrogenase reductase 4;SDR4;ortholog

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Protein CONSERVED ONLY IN THE GREEN LINEAGE 160, chloroplastic;CGL160;ortholog
Glutamine synthetase, chloroplastic/mitochondrial;GLN2;ortholog
Acyl-CoA N-acyltransferases (NAT) superfamily protein;At2g32030;ortholog
Signal peptide peptidase-like 4;SPPL4;ortholog
Transmembrane protein;MOK9.17;ortholog
PRA1 family protein B6;PRA1B6;ortholog
AT2G17320 protein;At2g17320;ortholog
Leucine-rich repeat (LRR) family protein;At2g15320;ortholog
Nuclear transport factor 2B;NTF2B;ortholog
MMS19 nucleotide excision repair protein homolog;MMS19;ortholog
Putative F-box/kelch-repeat protein At1g15680;At1g15680;ortholog
Uncharacterized protein AT4g19270;At4g19270;ortholog
Leucine-rich repeat (LRR) family protein;At5g49750;ortholog
Expansin-A3;EXPA3;ortholog
Putative 60S ribosomal protein L37a-1;RPL37AB;ortholog
CASP-like protein 1C1;At4g03540;ortholog
Glucose-1-phosphate adenylyltransferase large subunit 1, chloroplastic;ADG2;ortholog
ATP synthase subunit O, mitochondrial;At5g13450;ortholog
Pentatricopeptide repeat (PPR) superfamily protein;At1g47940;ortholog
Arginine decarboxylase 1;ADC1;ortholog
Vacuolar-sorting receptor 6;VSR6;ortholog
40S ribosomal protein S9-1;RPS9B;ortholog
Tetratricopeptide repeat (TPR)-containing protein;At1g17680;ortholog
Folate-biopterin transporter 1, chloroplastic;At2g32040;ortholog
Zinc finger CCCH domain-containing protein 42;At3g47120;ortholog
Ankyrin-repeat containing protein;At1g34046;ortholog
Cytochrome P450 71A24;CYP71A24;ortholog
Cystatin/monellin superfamily protein;MHM17.3;ortholog
Putative G-type lectin S-receptor-like serine/threonine-protein kinase At1g61610;At1g61610;ortholog
Kinetochoe protein SPC25 homolog;SPC25;ortholog
AGAMOUS-like 87;AGL87;ortholog
1-phosphatidylinositol-3-phosphate 5-kinase FAB1B;FAB1B;ortholog
Dormancy-associated protein homolog 1;DRMH1;ortholog
Cytochrome P450 71A12;CYP71A12;ortholog
F-box protein At3g17710;At3g17710;ortholog
RNA-binding protein CP29B, chloroplastic;CP29B;ortholog
Beta-glucosidase 42;BGLU42;ortholog
Cysteine/Histidine-rich C1 domain family protein;At1g55430;ortholog
Adenylosuccinate lyase;At1g36280;ortholog
VQ motif-containing protein 5;VQ5;ortholog
Glucose-inhibited division family A protein;At2g13440;ortholog
LOB domain-containing protein 9;LBD9;ortholog
ECA1 gametogenesis family protein (DUF784);At4g08025;ortholog
Germin-like protein subfamily 1 member 14;At5g39110;ortholog
Armadillo repeat only 4;orf 05;ortholog
Leucine-rich repeat protein kinase family protein (Fragment);LRR-RLK;ortholog
Eukaryotic translation initiation factor 3 subunit A;TIF3A1;ortholog
Transcription repressor;At2g19850;ortholog
Defensin-like protein 285;At5g44973;ortholog
Carboxyl-terminal proteinase-like protein, putative (DUF239);At4g17860;ortholog
F-box protein At1g56610;At1g56610;ortholog

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Putative transcription elongation factor SPT5 homolog 1;At4g08350;ortholog
Probable WRKY transcription factor 48;WRKY48;ortholog
Autophagy-related protein 8f;ATG8F;ortholog
Uncharacterized protein;At3g25014;ortholog
Asparagine synthase family protein;At2g03667;ortholog
RING/U-box superfamily protein;At3g47160;ortholog
Transmembrane protein;At3g28190;ortholog
NAD(P)H-quinone oxidoreductase subunit T, chloroplastic;ndhT;ortholog
Putative F-box protein At5g36200;At5g36200;ortholog
Organellar oligopeptidase A, chloroplastic/mitochondrial;OOP;ortholog
Inhibitor/lipid-transfer protein/seed storage 2S albumin superfamily protein (DUF784);At5g34882;ortholog
B3 domain-containing protein At2g24670;At2g24670;ortholog
Allyl alcohol dehydrogenase; NADP-dependent oxidoreductase-like protein;At5g37980;ortholog
Heat stress transcription factor A-1d;HSFA1D;ortholog
Uncharacterized protein;At2g07774;ortholog
Probable methyltransferase PMT2;At1g26850;ortholog
CRS1 / YhbY (CRM) domain-containing protein;At4g29750;ortholog
DEAD-box ATP-dependent RNA helicase 58, chloroplastic;RH58;ortholog
Transmembrane protein;At1g36622;ortholog
Transcription factor MYB62;MYB62;ortholog
Transferase-like protein;At3g29636;ortholog
Putative F-box/kelch-repeat protein At4g02310;At4g02310;ortholog
ADP-ribosylation factor-like protein 8c;ARL8C;ortholog

PANTHER Family/Subfamily

VESICLE-ASSOCIATED PROTEIN 4-3 (PTHR10809:SF116)
 40S RIBOSOMAL PROTEIN S29 (PTHR12010:SF14)
 BTB/POZ DOMAIN PLANT PROTEIN (PTHR31060:SF32)
 BETA-AMYLASE 5 (PTHR31352:SF34)
 MITOCHONDRIAL SUBSTRATE CARRIER FAMILY PROTEIN (PTHR45667:SF11)
 CALCIUM-BINDING PROTEIN CML38 (PTHR10891:SF747)
 OS02G0535700 PROTEIN (PTHR33986:SF15)
 CORE-2/I-BRANCHING BETA-1,6-N-ACETYLGLUCOSAMINYLTRANSFERASE FAMILY PROTEIN (PTHR45719)
 PROTEIN DETOXIFICATION 5-RELATED (PTHR11206:SF427)
 GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE 3-RELATED (PTHR15486:SF56)
 RING FINGER FAMILY PROTEIN (PTHR31150:SF29)
 PROTEIN MICRORCHIDIA 5 (PTHR23336:SF52)
 BNACNNG22830D PROTEIN (PTHR35714:SF3)
 G-PATCH DOMAIN AND KOW MOTIFS-CONTAINING PROTEIN (PTHR15818:SF2)
 OS04G0611300 PROTEIN (PTHR36320:SF1)
 ARM REPEAT SUPERFAMILY PROTEIN (PTHR10527:SF79)
 OS09G0327200 PROTEIN (PTHR24015:SF424)
 ASPARTIC PROTEINASE A3 (PTHR47966:SF38)
 PROTEIN STAY-GREEN LIKE, CHLOROPLASTIC (PTHR31750:SF18)
 GLYCINE-RICH PROTEIN (PTHR33971:SF6)
 SUBFAMILY NOT NAMED (PTHR24282:SF174)
 COLLAPSOIN RESPONSE MEDIATOR PROTEIN (PTHR11647:SF1)
 OS08G0529300 PROTEIN (PTHR35546:SF25)
 CHAPERONE DNAJ-DOMAIN SUPERFAMILY PROTEIN-RELATED (PTHR44137:SF10)
 EXPRESSED PROTEIN-RELATED (PTHR21704:SF18)
 RNA-BINDING (RRM/RBD/RNP MOTIFS) FAMILY PROTEIN (PTHR23236:SF45)
 CYSTEINE/HISTIDINE-RICH C1 DOMAIN FAMILY PROTEIN-RELATED (PTHR32410:SF154)

PROTEIN PLANT CADMIUM RESISTANCE 4-RELATED (PTHR15907:SF176)
 CALCIUM LOAD-ACTIVATED CALCIUM CHANNEL (PTHR20917:SF0)
 UDP-D-GLUCURONATE CARBOXY-LYASE-LIKE PROTEIN-RELATED (PTHR43078:SF7)
 SQUALENE EPOXIDASE 5-RELATED (PTHR10835:SF6)
 EXPRESSED PROTEIN (PTHR35711:SF1)
 DNA-3-METHYLADENINE GLYCOSYLASE (PTHR10429:SF0)
 BETA-GLUCURONOSYLTRANSFERASE GLCAT14A (PTHR45719:SF3)

RBR-TYPE E3 UBIQUITIN TRANSFERASE (PTHR11685:SF237)
 AMINO ACID TRANSPORTER AVT6A (PTHR22950:SF643)
 GLUCOMANNAN 4-BETA-MANNOSYLTRANSFERASE 11-RELATED (PTHR32044:SF54)
 40S RIBOSOMAL PROTEIN S9 (PTHR11831:SF5)
 BNAA01G35480D PROTEIN (PTHR46524:SF11)
 ABC TRANSPORTER B FAMILY MEMBER 13-RELATED (PTHR24221:SF415)
 ADENYLATE KINASE 5, CHLOROPLASTIC (PTHR23359:SF167)
 OS02G0567000 PROTEIN (PTHR37237:SF1)
 ETHYLENE-RESPONSIVE TRANSCRIPTION FACTOR 1B (PTHR31190:SF132)
 S-ADENOSYL-L-METHIONINE-DEPENDENT METHYLTRANSFERASE SUPERFAMILY PROTEIN (PTHR44067:)
 DIRIGENT PROTEIN 18 (PTHR46215:SF7)
 GLUCOMANNAN 4-BETA-MANNOSYLTRANSFERASE 14-RELATED (PTHR32044:SF63)

COLD SHOCK DOMAIN-CONTAINING PROTEIN 4 (PTHR46565:SF11)
SUBFAMILY NOT NAMED (PTHR33472:SF10)
TRANSMEMBRANE PROTEIN (PTHR37233:SF2)
TRANSMEMBRANE PROTEIN (PTHR36735:SF1)
PHYTOCHROME C (PTHR43719:SF4)
PROTEIN REVEILLE 2 (PTHR12802:SF133)
GDSL ESTERASE/LIPASE 7-LIKE (PTHR45650:SF14)
ANNEXIN D1 (PTHR10502:SF104)
GATA TRANSCRIPTION FACTOR 1 (PTHR45658:SF42)
PHOSPHATIDYLINOSITOL N-ACETYGLUCOSAMINYTRANSFERASE SUBUNIT P-LIKE PROTEIN (PTHR4721
E3 UBIQUITIN-PROTEIN LIGASE WAVH1 (PTHR10579:SF113)
TYROSINE-SULFATED GLYCOPEPTIDE RECEPTOR 1-RELATED (PTHR48004:SF2)
PATCHED FAMILY PROTEIN (PTHR45727:SF7)
SRR1-LIKE PROTEIN (PTHR28626:SF3)
MLO-LIKE PROTEIN 1 (PTHR31942:SF52)
NUCLEAR CAP-BINDING PROTEIN SUBUNIT 1 (PTHR12412:SF2)
TRANSCRIPTION INITIATION FACTOR TFIID SUBUNIT 15 (PTHR12999:SF17)
MYOSIN-4 PROTEIN (DUF641)-RELATED (PTHR31161:SF2)

ADP-RIBOSYLATION FACTOR B1B (PTHR11711:SF382)
PROTEIN TRANSPARENT TESTA 1 (PTHR45878:SF17)
CHP-RICH ZINC FINGER PROTEIN-RELATED (PTHR32410:SF153)
MEDIATOR OF RNA POLYMERASE II TRANSCRIPTION SUBUNIT (PTHR33782:SF13)
PUMILIO HOMOLOG 11 (PTHR12537:SF131)
BNAC05G36620D PROTEIN (PTHR31447:SF12)
BASIC LEUCINE ZIPPER 23 (PTHR23334:SF49)
GLUTATHIONE S-TRANSFERASE U4 (PTHR11260:SF626)
ZINC FINGER PROTEIN GIS (PTHR46547:SF7)
DBJ
NUCLEOLAR GTP-BINDING PROTEIN (PTHR33448:SF7)
GLUTATHIONE S-TRANSFERASE U5-RELATED (PTHR11260:SF533)
EMB
SECRETORY CARRIER-ASSOCIATED MEMBRANE PROTEIN 2 (PTHR10687:SF56)
BZIP TRANSCRIPTION FACTOR 60 (PTHR47416:SF8)
DEFENSIN-LIKE PROTEIN 184-RELATED (PTHR33830:SF3)
CYTOCHROME P450 81D11 (PTHR24298:SF841)
BIFUNCTIONAL INHIBITOR/LIPID-TRANSFER PROTEIN/SEED STORAGE 2S ALBUMIN SUPERFAMILY PROT
HALOACID DEHALOGENASE-LIKE HYDROLASE (HAD) SUPERFAMILY PROTEIN (PTHR12210:SF134)
ABSCISIC ACID RECEPTOR PYR1 (PTHR31213:SF6)
CYTOCHROME P450 89A2-RELATED (PTHR24298:SF800)
PPR CONTAINING PLANT-LIKE PROTEIN (PTHR47942:SF27)

ALPHA/BETA HYDROLASE RELATED PROTEIN (PTHR34953:SF1)
WRKY TRANSCRIPTION FACTOR 41-RELATED (PTHR32096:SF62)
HOMEODOMAIN PROTEIN CUT (PTHR14043:SF2)
BNAA06G32000D PROTEIN (PTHR23257:SF789)
PUMILIO HOMOLOG 9-RELATED (PTHR12537:SF136)
INO80 COMPLEX SUBUNIT B (PTHR21561:SF12)

METALLOENDOPROTEINASE 1-MMP (PTHR10201:SF279)

SUBFAMILY NOT NAMED (PTHR47932:SF27)
TRANSMEMBRANE PROTEIN (PTHR36009:SF3)
CARBOXYLESTERASE 7-RELATED (PTHR23024:SF446)
S-ADENOSYLMETHIONINE SYNTHASE 4 (PTHR11964:SF59)
O-FUCOSYLTRANSFERASE 10-RELATED (PTHR31288:SF8)
PROTEIN PSY2 (PTHR37177:SF2)

NICOTINAMIDE MONONUCLEOTIDE ADENYLYLTRANSFERASE (PTHR31285:SF0)
CALCIUM-DEPENDENT PHOSPHOTRIESTERASE SUPERFAMILY PROTEIN-RELATED (PTHR31460:SF0)
SPHINGOSINE-1-PHOSPHATE LYASE 1 (PTHR42735:SF6)
EXPRESSED PROTEIN (PTHR37263:SF2)
ALUMINUM-ACTIVATED MALATE TRANSPORTER 12-RELATED (PTHR31086:SF2)
RECEPTOR PROTEIN KINASE-LIKE PROTEIN ZAR1 (PTHR27008:SF412)

CUPREDOXIN SUPERFAMILY PROTEIN (PTHR33021:SF163)
TRANSCRIPTION FACTOR MYB26 (PTHR47997:SF40)
GLUTAREDOXIN DOMAIN-CONTAINING CYSTEINE-RICH PROTEIN CG12206-RELATED (PTHR45669:SF30)
NAD(P)-LINKED OXIDOREDUCTASE SUPERFAMILY PROTEIN (PTHR35688:SF2)
CHITINASE FAMILY PROTEIN (PTHR22595:SF162)
CYSTEINE-RICH RECEPTOR-LIKE PROTEIN KINASE 37 (PTHR27002:SF528)
FLAVONOL 3-O-GLUCOSYLTRANSFERASE UGT76E12-RELATED (PTHR11926:SF1226)
IMPORTIN SUBUNIT ALPHA-7 (PTHR23316:SF71)
SUBFAMILY NOT NAMED (PTHR31790:SF358)
LEUCINE-RICH REPEAT PROTEIN KINASE FAMILY PROTEIN (PTHR45631:SF59)
CYTOCHROME P450 71B38-RELATED (PTHR47956:SF6)
BNAA09G00550D PROTEIN (PTHR23012:SF169)
PROLYL 4-HYDROXYLASE 3-RELATED (PTHR10869:SF192)
BNAANG11800D PROTEIN (PTHR31044:SF58)
F21J9.4-RELATED (PTHR45125:SF3)
HEAT SHOCK PROTEIN DNAJ WITH TETRATRICOPEPTIDE REPEAT-CONTAINING PROTEIN (PTHR45181:SF1)
ZINC FINGER PROTEIN CONSTANS-LIKE 3 (PTHR31319:SF54)
RPW8-LIKE PROTEIN 1-RELATED (PTHR36766:SF5)
ACETYL-COA ACETYLTRANSFERASE, CYTOSOLIC 1 (PTHR18919:SF161)
SERINE CARBOXYPEPTIDASE-LIKE 41 (PTHR11802:SF376)
PROTEIN DRL-1 (PTHR43671:SF33)
DELTA-9 ACYL-LIPID DESATURASE 2 (PTHR11351:SF68)
GLYCINE RICH PROTEIN 9-RELATED (PTHR36732:SF1)
PARAXANTHINE METHYLTRANSFERASE 1-RELATED (PTHR31009:SF55)
AGAMOUS-LIKE MADS-BOX PROTEIN AGL80 (PTHR11945:SF387)
OS01G0945800 PROTEIN (PTHR48027:SF15)

ATP-DEPENDENT HELICASE ULS1 (PTHR45626:SF16)
JACALIN-RELATED LECTIN 34-RELATED (PTHR47293:SF7)
BNAC03G30070D PROTEIN (PTHR34049:SF6)
ORIGIN RECOGNITION COMPLEX SUBUNIT 1 (PTHR10763:SF23)
G1 TO S PHASE TRANSITION 1 (PTHR23115:SF36)
LD46604P (PTHR24186:SF2)
PHOSPHATE TRANSPORTER PHO1 HOMOLOG 7-RELATED (PTHR10783:SF98)
SKP1-LIKE PROTEIN 10-RELATED (PTHR11165:SF153)

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GIBBERELLIN 3-BETA-DIOXYGENASE 3 (PTHR47990:SF154)
PENTATRICOPEPTIDE REPEAT-CONTAINING PROTEIN (PTHR47928:SF80)
BNAA02G09710D PROTEIN (PTHR31681:SF64)
F12P19.17 PROTEIN-RELATED (PTHR31861:SF16)
TRANSMEMBRANE PROTEIN (PTHR34947:SF3)
ATP-DEPENDENT RNA HELICASE DDX42 (PTHR24031:SF125)
BNAC05G02800D PROTEIN (PTHR22765:SF270)
GLUTATHIONE REDUCTASE, CHLOROPLASTIC (PTHR48105:SF24)
LIPID TRANSFER PROTEIN (PTHR33122:SF43)
CHLORIDE TRANSPORT PROTEIN 6 (PTHR11689:SF92)
MITOGEN-ACTIVATED PROTEIN KINASE KINASE KINASE 21 (PTHR48011:SF68)
CYSTATIN/MONELLIN SUPERFAMILY PROTEIN (PTHR31228:SF10)
POLYADENYLATE-BINDING PROTEIN 5 (PTHR24012:SF773)

LRR PROTEIN (PTHR33870:SF19)
F-BOX ASSOCIATED UBIQUITINATION EFFECTOR FAMILY PROTEIN (PTHR47993:SF181)
ALLYL ALCOHOL DEHYDROGENASE, NADP-DEPENDENT OXIDOREDUCTASE-LIKE PROTEIN-RELATED (P
F-BOX ASSOCIATED UBIQUITINATION EFFECTOR FAMILY PROTEIN (PTHR31790:SF404)
PROTEIN ROOT UVB SENSITIVE 4 (PTHR12770:SF29)
PROTEIN CORNICHON HOMOLOG 5 (PTHR12290:SF29)
NDR1/HIN1-LIKE PROTEIN 10 (PTHR31415:SF4)
ABC TRANSPORTER G FAMILY MEMBER 30-RELATED (PTHR19241:SF574)
OSJNBA0068L06.9 PROTEIN (PTHR47040:SF1)
PROTEASOME SUBUNIT ALPHA TYPE-5-A-RELATED (PTHR11599:SF147)

WRKY TRANSCRIPTION FACTOR 63-RELATED (PTHR32096:SF87)
3-OXO-5-ALPHA-STEROID 4-DEHYDROGENASE (DUF1295) (PTHR32251:SF23)
5'-ADENYLYLSULFATE REDUCTASE-LIKE 4-RELATED (PTHR46854:SF1)
PARAFIBROMIN (PTHR12466:SF8)
DELTA-1-PYRROLINE-5-CARBOXYLATE SYNTHASE (PTHR11063:SF8)
F16F4.7 PROTEIN-RELATED (PTHR27005:SF304)
ACETYLORNITHINE DEACETYLASE (PTHR43808:SF3)
HALOACID DEHALOGENASE-LIKE HYDROLASE (HAD) SUPERFAMILY PROTEIN (PTHR23081:SF22)
PROTEIN POLAR LOCALIZATION DURING ASYMMETRIC DIVISION AND REDISTRIBUTION (PTHR33476:SF2
OS09G0423700 PROTEIN (PTHR15852:SF66)
GENERAL TRANSCRIPTION FACTOR 2-RELATED ZINC FINGER PROTEIN-RELATED (PTHR11697:SF206)
DECAPPING 5-LIKE PROTEIN-RELATED (PTHR13586:SF18)
BNAC05G50380D PROTEIN (PTHR33270:SF18)
RNA-BINDING (RRM/RBD/RNP MOTIFS) FAMILY PROTEIN (PTHR11176:SF42)
PURPLE ACID PHOSPHATASE 3 (PTHR10161:SF34)
EXONUCLEASE 1 (PTHR11081:SF8)
DEOXYNUCLEOSIDE TRIPHOSPHATE TRIPHOSPHOHYDROLASE SAMHD1 (PTHR11373:SF4)
WRKY FAMILY TRANSCRIPTION FACTOR-RELATED (PTHR31429:SF76)
DYNAMIN-RELATED PROTEIN 1A (PTHR11566:SF159)
LOB DOMAIN-CONTAINING PROTEIN 41 (PTHR31304:SF20)
PROTEIN RALF-LIKE 16-RELATED (PTHR34270:SF1)
CBL-INTERACTING SERINE/THREONINE-PROTEIN KINASE 6 (PTHR43895:SF91)

TOBAMOVIRUS MULTIPLICATION PROTEIN 2A (PTHR19282:SF417)
SUCROSE TRANSPORT PROTEIN SUC7-RELATED (PTHR19432:SF70)
TRANSMEMBRANE PROTEIN (PTHR31415:SF71)

PHOSPHOGLUCAN PHOSPHATASE LSF2, CHLOROPLASTIC (PTHR46642:SF2)
 KANADAPTIN (PTHR23308:SF2)
 CALMODULIN-LIKE PROTEIN 10 (PTHR23050:SF413)
 CONCANAVALIN A-LIKE LECTIN FAMILY PROTEIN-RELATED (PTHR27007:SF75)
 AT15894P-RELATED (PTHR11960:SF8)
 E3 UBIQUITIN-PROTEIN LIGASE SINA-LIKE 11-RELATED (PTHR10315:SF131)
 STAPHYLOCOCCAL NUCLEASE DOMAIN-CONTAINING PROTEIN 1 (PTHR12302:SF2)
 TRIFUNCTIONAL PURINE BIOSYNTHETIC PROTEIN ADENOSINE-3 (PTHR43369:SF2)
 DUF668 FAMILY PROTEIN (PTHR31730:SF32)
 GLUCAN ENDO-1,3-BETA-GLUCOSIDASE 2 (PTHR32227:SF52)

CCR4-NOT TRANSCRIPTION COMPLEX SUBUNIT 10 (PTHR12979:SF5)
 TRANSCRIPTION FACTOR ALC (PTHR45855:SF27)
 PROTEIN, PUTATIVE (DUF239)-RELATED (PTHR31589:SF123)
 PHOTOSYSTEM I CHLOROPHYLL A/B-BINDING PROTEIN 3-1, CHLOROPLASTIC (PTHR21649:SF14)
 MEDIATOR OF RNA POLYMERASE II TRANSCRIPTION SUBUNIT 8 (PTHR35552:SF1)

UDP-3-O-ACYL-N-ACETYLGUCOSAMINE DEACETYLASE 1, MITOCHONDRIAL-RELATED (PTHR33694:SF1)
 BNAANG08770D PROTEIN (PTHR33976:SF9)
 PROTEIN TSSC4 (PTHR13445:SF3)
 GPI-ANCHOR TRANSAMIDASE (PTHR48067:SF1)
 ENVELOPE ADP,ATP CARRIER PROTEIN, CHLOROPLASTIC-RELATED (PTHR24089:SF676)
 60S RIBOSOMAL PROTEIN L6 (PTHR10715:SF0)

SUBFAMILY NOT NAMED (PTHR31215:SF18)

PLATZ TRANSCRIPTION FACTOR FAMILY PROTEIN (PTHR31065:SF38)
 POLYAMINE-MODULATED FACTOR 1-BINDING PROTEIN (PTHR31161:SF17)
 TETRATRICOPEPTIDE REPEAT (TPR)-LIKE SUPERFAMILY PROTEIN (PTHR47541:SF1)
 STRUCTURAL MAINTENANCE OF CHROMOSOMES PROTEIN (PTHR18937:SF12)
 PROTEIN NRDE2 HOMOLOG (PTHR13471:SF0)
 RNA-BINDING (RRM/RBD/RNP MOTIFS) FAMILY PROTEIN (PTHR32343:SF26)
 HOMEODOMAIN-LIKE SUPERFAMILY PROTEIN-RELATED (PTHR31442:SF21)
 PROTEIN OSB2, CHLOROPLASTIC (PTHR10302:SF21)

PERSULFIDE DIOXYGENASE ETHE1, MITOCHONDRIAL (PTHR43084:SF1)
 AGENET DOMAIN-CONTAINING PROTEIN (PTHR31917:SF66)
 OS03G0698350 PROTEIN (PTHR43173:SF19)

NEP-INTERACTING PROTEIN (DUF239) (PTHR31589:SF137)
 (+)-NEOMENTHOL DEHYDROGENASE-RELATED (PTHR43490:SF98)
 DISEASE RESISTANCE PROTEIN (NBS-LRR CLASS) FAMILY-RELATED (PTHR11017:SF411)
 F-BOX/KELCH-REPEAT PROTEIN OR23 (PTHR47850:SF1)

RING FINGER FAMILY PROTEIN (PTHR46798:SF3)
 CALCIUM-BINDING PROTEIN CML17-RELATED (PTHR23050:SF363)
 FUCOSYLTRANSFERASE 6 (PTHR31889:SF49)
 EXPRESSED PROTEIN-RELATED (PTHR13844:SF8)
 NODULIN MTN21 /EAMA-LIKE TRANSPORTER FAMILY PROTEIN (PTHR31218:SF252)
 CASP-LIKE PROTEIN 4A1 (PTHR11615:SF279)
 S-TYPE ANION CHANNEL SLAH3 (PTHR31269:SF2)

SAGA-ASSOCIATED FACTOR 11 (PTHR47674:SF3)
 POLYKETIDE CYCLASE/DEHYDRASE AND LIPID TRANSPORT SUPERFAMILY PROTEIN (PTHR31338:SF25)
 UBIQUITIN CARBOXYL-TERMINAL HYDROLASE 10-RELATED (PTHR21646:SF58)
 V-TYPE PROTON ATPASE SUBUNIT C4 (PTHR10263:SF57)
 F-BOX ONLY PROTEIN 9-RELATED (PTHR47993:SF70)

CHITINASE-LIKE PROTEIN 2 (PTHR22595:SF96)
 BNAANNG08770D PROTEIN (PTHR33976:SF9)
 OS06G0652100 PROTEIN (PTHR31373:SF17)
 OS05G0182700 PROTEIN (PTHR46667:SF6)

PUMILIO HOMOLOG 1-RELATED (PTHR12537:SF128)
 PRECURSOR OF CEP3 (PTHR33348:SF31)
 INACTIVE LRR RECEPTOR-LIKE SERINE/THREONINE-PROTEIN KINASE BIR2 (PTHR48004:SF28)
 CYTOCHROME C ASSEMBLY PROTEIN-RELATED (PTHR30071:SF17)
 BNAA09G42970D PROTEIN (PTHR24414:SF65)
 BERBERINE BRIDGE ENZYME-LIKE 24-RELATED (PTHR32448:SF94)
 DEFENSIN-LIKE PROTEIN 171-RELATED (PTHR36788:SF3)
 CYSTATIN/MONELLIN SUPERFAMILY PROTEIN (PTHR31228:SF26)
 BNACNNG15460D PROTEIN (PTHR32212:SF256)
 ACID BETA-FRUCTOFURANOSIDASE 3, VACUOLAR (PTHR31953:SF41)
 JACALIN-RELATED LECTIN 13-RELATED (PTHR47293:SF11)
 GIBBERELLIN 2-BETA-DIOXYGENASE 7 (PTHR47990:SF8)
 BNAA09G42970D PROTEIN (PTHR24414:SF65)

PROTEIN SET (PTHR11875:SF49)
 3-HYDROXYISOBUTYRYL-COA HYDROLASE-LIKE PROTEIN 4, MITOCHONDRIAL (PTHR43176:SF5)

ABSCISIC ACID-INSENSITIVE 5-LIKE PROTEIN 4 (PTHR22952:SF413)
 MALEYLACETOACETATE ISOMERASE (PTHR42673:SF4)

PROTEIN TRICHOME BIREFRINGENCE-LIKE 13 (PTHR32285:SF12)

BNACNNG21220D PROTEIN (PTHR36078:SF2)
 DEHYDROGENASE/REDUCTASE (SDR FAMILY) MEMBER 4 (PTHR43943:SF2)
 GERANYLGERANYL PYROPHOSPHATE SYNTHASE 7, CHLOROPLASTIC (PTHR43281:SF24)

PROTEIN NRDE2 HOMOLOG (PTHR13471:SF0)

RNA POLYMERASE II TRANSCRIPTIONAL COACTIVATOR KELP (PTHR13215:SF6)
 OS06G0184866 PROTEIN (PTHR47938:SF2)
 EMB
 NAC DOMAIN-CONTAINING PROTEIN 100 (PTHR31744:SF104)
 PLANT SELF-INCOMPATIBILITY PROTEIN S1 FAMILY (PTHR31232:SF92)
 OS08G0434000 PROTEIN (PTHR47928:SF63)
 AQUAPORIN SIP1-1 (PTHR46739:SF3)
 MYELIN-ASSOCIATED OLIGODENDROCYTE BASIC PROTEIN (PTHR33975:SF2)
 TRNA METHYLTRANSFERASE 9B-RELATED (PTHR13069:SF21)
 FBD / LEUCINE RICH REPEAT DOMAINS CONTAINING PROTEIN (PTHR32212:SF252)
 RNA N6-ADENOSINE-METHYLTRANSFERASE METTL16 (PTHR13393:SF0)
 VACUOLAR PROTEIN SORTING-ASSOCIATED PROTEIN 55 HOMOLOG (PTHR12050:SF1)

PROTEIN PLANT CADMIUM RESISTANCE 7 (PTHR15907:SF147)
 AUXIN-RESPONSIVE PROTEIN SAUR62-RELATED (PTHR31175:SF50)
 DNA REPAIR PROTEIN RADA-LIKE PROTEIN (PTHR32472:SF10)
 C2 DOMAIN-CONTAINING PROTEIN-LIKE (PTHR47042:SF4)
 UDP-GLYCOSYLTRANSFERASE 78D1-RELATED (PTHR48049:SF29)
 AROGENATE DEHYDRATASE/PREPHENATE DEHYDRATASE 1, CHLOROPLASTIC (PTHR21022:SF20)
 N6-ADENOSINE-METHYLTRANSFERASE NON-CATALYTIC SUBUNIT (PTHR13107:SF0)
 ANKYRIN REPEAT DOMAIN-CONTAINING PROTEIN 13C (PTHR12447:SF0)
 CHP-RICH ZINC FINGER PROTEIN-LIKE-RELATED (PTHR32410:SF176)
 TRANSMEMBRANE PROTEIN (PTHR37172:SF4)
 F-BOX/KELCH-REPEAT PROTEIN-RELATED (PTHR33110:SF71)
 BEL1-LIKE HOMEODOMAIN PROTEIN 9 (PTHR11850:SF82)
 EXPRESSED PROTEIN (PTHR35702:SF1)
 PROTEIN PHOSPHATASE 2C 52-RELATED (PTHR47992:SF87)
 GLYCINE RICH PROTEIN 9-RELATED (PTHR36732:SF1)
 L-TYPE LECTIN-DOMAIN CONTAINING RECEPTOR KINASE IX.2 (PTHR27007:SF162)
 OLIGOPEPTIDE TRANSPORTER 1 (PTHR22601:SF0)
 ATPP-LIKE PROTEIN-RELATED (PTHR31009:SF58)
 REGULATOR OF VPS4 ACTIVITY IN THE MVB PATHWAY PROTEIN (PTHR12161:SF62)
 GATA TRANSCRIPTION FACTOR 4 (PTHR45658:SF59)
 F-BOX ASSOCIATED UBIQUITINATION EFFECTOR FAMILY PROTEIN-RELATED (PTHR31714:SF10)
 SERINE/THREONINE-PROTEIN KINASE BSK2 (PTHR45863:SF15)
 OS08G0442350 PROTEIN (PTHR31422:SF1)
 OS09G0478400 PROTEIN (PTHR36008:SF1)
 TRANSCRIPTION FACTOR 25 (PTHR22684:SF0)

40S RIBOSOMAL PROTEIN S16-1-RELATED (PTHR21569:SF29)

PROTEIN KINASE SUPERFAMILY PROTEIN (PTHR47983:SF3)
 PHENYLALANINE AMMONIA-LYASE 3 (PTHR10362:SF37)
 B3 DOMAIN-CONTAINING TRANSCRIPTION FACTOR ABI3 (PTHR31140:SF81)
 GLUCOSE-INDUCED DEGRADATION PROTEIN 8 HOMOLOG (PTHR12864:SF3)
 GERMIN-LIKE PROTEIN SUBFAMILY 2 MEMBER 5-RELATED (PTHR31238:SF157)
 WAT1-RELATED PROTEIN (PTHR31218:SF301)
 KINESIN-LIKE PROTEIN KIN-14U (PTHR24115:SF835)
 BNAC01G41860D PROTEIN (PTHR47383:SF3)
 EG45-LIKE DOMAIN CONTAINING PROTEIN 2 (PTHR47295:SF5)
 TRAF-LIKE FAMILY PROTEIN-RELATED (PTHR46236:SF21)
 F-BOX/KELCH-REPEAT PROTEIN-RELATED (PTHR33110:SF71)
 CARBOHYDRATE-BINDING X8 DOMAIN SUPERFAMILY PROTEIN (PTHR31044:SF52)

ZINC FINGER-CONTAINING UBIQUITIN PEPTIDASE 1 (PTHR24403:SF82)
 RECEPTOR-LIKE PROTEIN 6-RELATED (PTHR27004:SF173)

ACYL-COA N-ACYLTRANSFERASES (NAT) SUPERFAMILY PROTEIN (PTHR46067:SF17)
 F-BOX ASSOCIATED UBIQUITINATION EFFECTOR FAMILY PROTEIN-RELATED (PTHR31945:SF80)
 TRANSCRIPTION FACTOR UNE12-RELATED (PTHR16223:SF200)
 CYCLIN-DEPENDENT PROTEIN KINASE INHIBITOR SMR8 (PTHR33142:SF39)
 ZINC FINGER CCCH DOMAIN-CONTAINING PROTEIN 67 (PTHR12506:SF63)
 PECTATE LYASE 20-RELATED (PTHR31683:SF150)

DEMETER-LIKE PROTEIN 2-RELATED (PTHR46213:SF8)

ALPHA/BETA-HYDROLASES SUPERFAMILY PROTEIN (PTHR46086:SF4)

CYSTEINE--TRNA LIGASE 1, CYTOPLASMIC-RELATED (PTHR10890:SF26)

GENERAL TRANSCRIPTION FACTOR 2-RELATED ZINC FINGER PROTEIN-RELATED (PTHR11697:SF206)

NADPH OXIDASE 4 (PTHR11972:SF69)

BNAANNG11800D PROTEIN (PTHR31044:SF58)

OS01G0688600 PROTEIN (PTHR33130:SF43)

ZINC KNUCKLE (CCHC-TYPE) FAMILY PROTEIN (PTHR33680:SF4)

OS08G0110400 PROTEIN (PTHR31042:SF3)

PEPTIDYL-TRNA HYDROLASE, MITOCHONDRIAL (PTHR17224:SF4)

UBIQUITIN CARBOXYL-TERMINAL HYDROLASE FAMILY PROTEIN-RELATED (PTHR22975:SF20)

CYTOCHROME P450 708A2-RELATED (PTHR24286:SF305)

WALL-ASSOCIATED RECEPTOR KINASE-LIKE 1-RELATED (PTHR27005:SF250)

KELCH DOMAIN-CONTAINING PROTEIN 4 (PTHR46063:SF1)

BROMO-ADJACENT HOMOLOGY (BAH) DOMAIN-CONTAINING PROTEIN (PTHR46871:SF1)

PHOTOSYNTHETIC NDH SUBUNIT OF LUMENAL LOCATION 5, CHLOROPLASTIC (PTHR11071:SF471)

HISTONE-LYSINE N-METHYLTRANSFERASE, H3 LYSINE-9 SPECIFIC SUVH1 (PTHR45660:SF5)

BNACNNG58650D PROTEIN (PTHR23070:SF110)

CYCLIN-DEPENDENT KINASE INHIBITOR 1 (PTHR46776:SF23)

BNAA08G07360D PROTEIN (PTHR45648:SF73)

SPERMINE SYNTHASE (PTHR11558:SF25)

BNAC08G40280D PROTEIN (PTHR31050:SF5)

60S RIBOSOMAL PROTEIN L23 (PTHR11761:SF36)

CYTOCHROME B/B6 PROTEIN-RELATED (PTHR30071:SF1)

DYNAMIN-2A (PTHR11566:SF192)

CALMODULIN-BINDING TRANSCRIPTION ACTIVATOR 6 (PTHR23335:SF3)

RIBULOSE BISPHOSPHATE CARBOXYLASE LARGE CHAIN, CATALYTIC DOMAIN-CONTAINING PROTEIN (P
ATP-DEPENDENT DNA HELICASE (PTHR33494:SF7)

28S RRNA (CYTOSINE-C(5))-METHYLTRANSFERASE-RELATED (PTHR22807:SF4)

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

NUCLEOPORIN GLE1 (PTHR12960:SF0)

50S RIBOSOMAL-LIKE PROTEIN (PTHR34542:SF6)

F-BOX FAMILY PROTEIN-RELATED (PTHR33784:SF25)

SCARECROW-LIKE PROTEIN 9 (PTHR31636:SF258)

LD43819P (PTHR13009:SF8)

BNAC04G03640D PROTEIN (PTHR46288:SF23)

40S RIBOSOMAL PROTEIN S18 (PTHR10871:SF36)

BNAC03G58200D PROTEIN (PTHR12357:SF90)

INACTIVE PURPLE ACID PHOSPHATASE 24-RELATED (PTHR45778:SF6)

UNEXTENDED, ISOFORM E (PTHR12064:SF59)

SERINE CARBOXYPEPTIDASE-LIKE 44 (PTHR11802:SF20)

PROTEIN NIM1-INTERACTING 2 (PTHR35735:SF8)

PROTEIN DISULFIDE-ISOMERASE 5-2 (PTHR18929:SF218)

DISEASE RESISTANCE PROTEIN (TIR-NBS-LRR CLASS) FAMILY (PTHR11017:SF253)

WAT1-RELATED PROTEIN (PTHR31218:SF15)

SUBTILISIN-LIKE PROTEASE SBT5.3 (PTHR10795:SF678)
PLANT INVERTASE/PECTIN METHYLESTERASE INHIBITOR SUPERFAMILY PROTEIN (PTHR36710:SF3)
PROTEIN BIC2 (PTHR34207:SF7)
SERINE/THREONINE-PROTEIN KINASE STN8, CHLOROPLASTIC (PTHR46699:SF1)

GLYCEROPHOSPHODIESTER PHOSPHODIESTERASE GDPD5 (PTHR43620:SF7)

BNAC03G62980D PROTEIN (PTHR33083:SF69)
LEUCINE-RICH REPEAT (LRR) FAMILY PROTEIN (PTHR48060:SF3)
AGAMOUS-LIKE 57 (PTHR11945:SF539)
DISEASE RESISTANCE PROTEIN (NBS-LRR CLASS) FAMILY-RELATED (PTHR11017:SF411)
EXPRESSED PROTEIN (PTHR31890:SF12)
BNAC08G15950D PROTEIN (PTHR31050:SF8)
PROTEIN KINASE SUPERFAMILY PROTEIN (PTHR24056:SF416)
ETHYLENE INSENSITIVE 3-LIKE 1 PROTEIN (PTHR33305:SF28)
2-OXOGLUTARATE (2OG) AND FE(II)-DEPENDENT OXYGENASE SUPERFAMILY PROTEIN (PTHR10209:SF5)
PLANT INVERTASE/PECTIN METHYLESTERASE INHIBITOR SUPERFAMILY PROTEIN (PTHR31707:SF295)
RECEPTOR-LIKE PROTEIN 19-RELATED (PTHR27004:SF242)
INTEGRAL MEMBRANE PROTEIN (AFU_ORTHOLOGUE AFUA_2G12300) (PTHR12459:SF15)
EUKARYOTIC TRANSLATION INITIATION FACTOR 5A-2 (PTHR11673:SF32)
RING-H2 FINGER PROTEIN ATL56 (PTHR46539:SF9)
GALACTOSE-BINDING PROTEIN-RELATED (PTHR32018:SF13)
ANKYRIN REPEAT FAMILY PROTEIN-RELATED (PTHR24177:SF322)
SERINE/THREONINE-PROTEIN KINASE-LIKE PROTEIN CCR2 (PTHR47989:SF18)
THIOL-DISULFIDE OXIDOREDUCTASE LTO1 (PTHR34573:SF1)
F10A5.18 (PTHR32208:SF61)
TRANSMEMBRANE PROTEIN (DUF616) (PTHR12956:SF24)
O-FUCOSYLTRANSFERASE 29 (PTHR31818:SF3)
CYTOCHROME B-C1 COMPLEX SUBUNIT RIESKE, MITOCHONDRIAL-RELATED (PTHR10134:SF20)
F-BOX PROTEIN PP2-B1 (PTHR32278:SF93)
INACTIVE GDSL ESTERASE/LIPASE-LIKE PROTEIN 25 (PTHR45966:SF12)
SEC-C MOTIF PROTEIN (PTHR36750:SF1)
EXPRESSED PROTEIN (PTHR33638:SF5)
NAC DOMAIN-CONTAINING PROTEIN 19 (PTHR31719:SF114)
BNAC08G40310D PROTEIN (PTHR31050:SF6)
NAC DOMAIN-CONTAINING PROTEIN 3-RELATED (PTHR31989:SF292)
NAC DOMAIN-CONTAINING PROTEIN 71 (PTHR31989:SF301)

RIBOSE-5-PHOSPHATE ISOMERASE 2-RELATED (PTHR43748:SF2)
DNA LIGASE (DUF630 AND DUF632) (PTHR21450:SF7)
MULTIFUNCTIONAL TRYPTOPHAN BIOSYNTHESIS PROTEIN (PTHR43418:SF4)
GERMIN-LIKE PROTEIN SUBFAMILY 1 MEMBER 6-RELATED (PTHR31238:SF119)
PECTATE LYASE 5-RELATED (PTHR31683:SF164)

PROTEIN LURP-ONE-RELATED 6 (PTHR31087:SF3)
TRAF-LIKE FAMILY PROTEIN-RELATED (PTHR46236:SF21)
EQUILIBRATIVE NUCLEOTIDE TRANSPORTER 4 (PTHR10332:SF67)
MYROSINASE 4-RELATED (PTHR10353:SF234)
PROTEIN C2-DOMAIN ABA-RELATED 8 (PTHR45933:SF25)
DEFENSIN-LIKE PROTEIN 242-RELATED (PTHR34450:SF3)
SUBFAMILY NOT NAMED (PTHR24058:SF110)

MITOVIRUS RNA-DEPENDENT RNA POLYMERASE (PTHR34456:SF12)
 CALCIUM-BINDING PROTEIN CML41-RELATED (PTHR23050:SF390)
 T-COMPLEX PROTEIN 11 (PTHR12832:SF34)
 PROTOPORPHYRINOGEN OXIDASE (PTHR42923:SF3)
 PATATIN-LIKE PROTEIN 8 (PTHR32241:SF25)
 CLASSICAL ARABINO GALACTAN PROTEIN 10-RELATED (PTHR36321:SF3)

CHLOROPHYLL A-B BINDING PROTEIN 2.1, CHLOROPLASTIC-RELATED (PTHR21649:SF33)
 CHAPERONE PROTEIN DNAJ 20, CHLOROPLASTIC (PTHR45090:SF4)
 BNAA09G38550D PROTEIN (PTHR33779:SF10)
 FERRIC REDUCTION OXIDASE 4-RELATED (PTHR11972:SF79)
 SNF1-RELATED PROTEIN KINASE CATALYTIC SUBUNIT ALPHA KIN11 (PTHR24343:SF438)
 RESPIRATORY COMPLEX I CHAPERONE (CIA84), PUTATIVE (AFU_ORTHOLOGUE AFUA_2G06020)-RELATE
 PROTEIN PHR1-LIKE 1 (PTHR31314:SF74)
 IQ-DOMAIN 11 (PTHR32295:SF41)
 UDP-3-O-ACYL-N-ACETYLGALACTOSAMINE DEACETYLASE 1, MITOCHONDRIAL-RELATED (PTHR33694:SF1)
 GALACTINOL--SUCROSE GALACTOSYLTRANSFERASE 5-RELATED (PTHR31268:SF14)
 PLANT BASIC SECRETORY PROTEIN (BSP) FAMILY PROTEIN (PTHR33321:SF12)
 ALPHA-MANNOSIDASE (PTHR11607:SF18)
 DISEASE RESISTANCE PROTEIN ADR1 (PTHR11017:SF296)
 NUCLEAR PORE COMPLEX PROTEIN NUP50 (PTHR23138:SF141)
 CYSTEINE/HISTIDINE-RICH C1 DOMAIN FAMILY PROTEIN (PTHR32410:SF163)
 CA-RESPONSIVE PROTEIN (PTHR35991:SF1)
 MYOSIN HEAVY CHAIN-LIKE PROTEIN (PTHR35712:SF1)
 TETRATRICOPEPTIDE REPEAT (TPR)-LIKE SUPERFAMILY PROTEIN (PTHR47938:SF13)
 ATP-DEPENDENT ZINC METALLOPROTEASE FTSH 9, CHLOROPLASTIC (PTHR23076:SF112)
 BNAA09G15240D PROTEIN (PTHR23402:SF24)
 CYSTATHIONINE GAMMA-SYNTHASE 1, CHLOROPLASTIC (PTHR43379:SF1)
 CYTOCHROME P450 72A11-RELATED (PTHR24282:SF12)

GERANYLGERANYL TRANSFERASE TYPE-2 SUBUNIT BETA (PTHR11774:SF11)
 PROLYLCARBOXYPEPTIDASE-LIKE PROTEIN-RELATED (PTHR11010:SF96)
 GOT1/SFT2-LIKE VESICLE TRANSPORT PROTEIN FAMILY (PTHR21493:SF246)
 TRANSMEMBRANE PROTEIN (PTHR37172:SF4)
 PECTIN ACETYLESTERASE 8 (PTHR21562:SF93)
 OS11G0148400 PROTEIN (PTHR35701:SF1)

PLANT SELF-INCOMPATIBILITY PROTEIN S1 FAMILY-RELATED (PTHR31232:SF31)
 BNAANNG18700D PROTEIN (PTHR23070:SF88)

PROTEIN ATAF2 (PTHR31719:SF94)
 HIGH AFFINITY NITRATE TRANSPORTER-RELATED (PTHR23515:SF28)
 PEPTIDYL-PROLYL CIS-TRANS ISOMERASE-LIKE 4 (PTHR45843:SF1)
 BNAANNG05380D PROTEIN (PTHR32212:SF283)
 ALPHA-KETOGLUTARATE-DEPENDENT DIOXYGENASE ALKB (PTHR16557:SF8)
 65-KDA MICROTUBULE-ASSOCIATED PROTEIN 7 (PTHR19321:SF23)
 BNAA02G36500D PROTEIN (PTHR31676:SF86)

ACETYL-COA:BENZYLALCOHOL ACETYLTRANFERASE-LIKE PROTEIN-RELATED (PTHR31623:SF22)
 BIFUNCTIONAL INHIBITOR/LIPID-TRANSFER PROTEIN/SEED STORAGE 2S ALBUMIN SUPERFAMILY PROT
 NAD(P)-BINDING ROSSMANN-FOLD SUPERFAMILY PROTEIN-RELATED (PTHR42820:SF15)

PROTEIN CONSERVED ONLY IN THE GREEN LINEAGE 160, CHLOROPLASTIC (PTHR34118:SF6)
GLUTAMINE SYNTHETASE, CHLOROPLASTIC/MITOCHONDRIAL (PTHR20852:SF84)
ACYL-COA N-ACYLTRANSFERASES (NAT) SUPERFAMILY PROTEIN (PTHR46067:SF27)
SIGNAL PEPTIDE PEPTIDASE-LIKE 2B (PTHR12174:SF68)
TRANSMEMBRANE PROTEIN (PTHR47864:SF2)
PRA1 FAMILY PROTEIN B6 (PTHR19317:SF45)
BNAC03G47610D PROTEIN (PTHR12280:SF38)
LEUCINE-RICH REPEAT (LRR) FAMILY PROTEIN (PTHR27000:SF662)
NUCLEAR TRANSPORT FACTOR 2B (PTHR12612:SF36)
MMS19 NUCLEOTIDE EXCISION REPAIR PROTEIN HOMOLOG (PTHR12891:SF0)
BNAC03G64480D PROTEIN (PTHR35546:SF23)

LEUCINE-RICH REPEAT (LRR) FAMILY PROTEIN-RELATED (PTHR48054:SF35)
EXPANSIN-A3 (PTHR31867:SF174)
60S RIBOSOMAL PROTEIN L37A (PTHR48129:SF1)
CASP-LIKE PROTEIN 1C1 (PTHR11615:SF159)
GLUCOSE-1-PHOSPHATE ADENYLYLTRANSFERASE LARGE SUBUNIT 1, CHLOROPLASTIC-RELATED (PT-
ATP SYNTHASE SUBUNIT O, MITOCHONDRIAL (PTHR11910:SF1)
2-OXOGLUTARATE (2OG) AND FE(II)-DEPENDENT OXYGENASE SUPERFAMILY PROTEIN-RELATED (PTHR
ARGININE DECARBOXYLASE 1-RELATED (PTHR43295:SF1)
VACUOLAR-SORTING RECEPTOR 6 (PTHR22765:SF259)
40S RIBOSOMAL PROTEIN S9-1 (PTHR11831:SF26)
GENERAL TRANSCRIPTION FACTOR 3C POLYPEPTIDE 3 (PTHR23082:SF0)
FOLATE-BIOPTERIN TRANSPORTER 1, CHLOROPLASTIC (PTHR31585:SF0)
RNA-BINDING MOTIF PROTEIN, X-LINKED 2 (PTHR45880:SF1)

CYTOCHROME P450 71A21-RELATED (PTHR47956:SF4)
CYSTATIN-LIKE PROTEIN-RELATED (PTHR31228:SF25)
SUBFAMILY NOT NAMED (PTHR27002:SF821)
KINETOCHORE PROTEIN SPC25 (PTHR14281:SF0)
AGAMOUS-LIKE 87 (PTHR11945:SF505)
1-PHOSPHATIDYLINOSITOL-3-PHOSPHATE 5-KINASE FAB1B (PTHR45748:SF17)
DORMANCY-ASSOCIATED PROTEIN HOMOLOG 1 (PTHR33565:SF11)
CYTOCHROME P450 71A12-RELATED (PTHR47956:SF22)
F-BOX ASSOCIATED UBIQUITINATION EFFECTOR FAMILY PROTEIN (PTHR47993:SF181)
RNA-BINDING PROTEIN CP29B, CHLOROPLASTIC (PTHR48025:SF10)
BETA-GLUCOSIDASE 42 (PTHR10353:SF186)
CYSTEINE/HISTIDINE-RICH C1 DOMAIN FAMILY PROTEIN (PTHR32410:SF157)
ADENYLOSUCCINATE LYASE (PTHR43411:SF1)
VQ MOTIF-CONTAINING PROTEIN 5 (PTHR33783:SF5)
PROTEIN MTO1 HOMOLOG, MITOCHONDRIAL (PTHR11806:SF0)
LOB DOMAIN-CONTAINING PROTEIN 5-RELATED (PTHR31301:SF19)
BIFUNCTIONAL INHIBITOR/LIPID-TRANSFER PROTEIN/SEED STORAGE 2S ALBUMIN SUPERFAMILY PROT
GERMIN-LIKE PROTEIN SUBFAMILY 1 MEMBER 13-RELATED (PTHR31238:SF188)
ARMADILLO REPEAT ONLY 4 (PTHR46168:SF1)
REPEAT FAMILY PROTEIN, PUTATIVE, EXPRESSED-RELATED (PTHR45631:SF68)
EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT A (PTHR14005:SF0)

CARBOXYL-TERMINAL PROTEINASE-LIKE PROTEIN (DUF239)-RELATED (PTHR31589:SF72)
SUBFAMILY NOT NAMED (PTHR31639:SF137)

pantherGeneList

KOW DOMAIN-CONTAINING PROTEIN-RELATED (PTHR11125:SF13)
WRKY TRANSCRIPTION FACTOR 48-RELATED (PTHR31221:SF238)
AUTOPHAGY-RELATED PROTEIN 8F (PTHR10969:SF58)

ASPARAGINE SYNTHETASE DOMAIN-CONTAINING PROTEIN 1 (PTHR45937:SF1)
RING/U-BOX SUPERFAMILY PROTEIN (PTHR15315:SF75)

NAD(P)H-QUINONE OXIDOREDUCTASE SUBUNIT T, CHLOROPLASTIC (PTHR45283:SF1)
F-BOX ASSOCIATED UBIQUITINATION EFFECTOR FAMILY PROTEIN (PTHR47993:SF37)
LD37516P (PTHR11804:SF49)
BIFUNCTIONAL INHIBITOR/LIPID-TRANSFER PROTEIN/SEED STORAGE 2S ALBUMIN SUPERFAMILY PROTEIN
BNAC08G44340D PROTEIN (PTHR31541:SF35)
ALLYL ALCOHOL DEHYDROGENASE, NADP-DEPENDENT OXIDOREDUCTASE-LIKE PROTEIN-RELATED (PTHR10015:SF385)
HEAT STRESS TRANSCRIPTION FACTOR A-1D (PTHR10015:SF385)

METHYLTRANSFERASE PMT2-RELATED (PTHR10108:SF1119)
CRS1 / YHBY (CRM) DOMAIN-CONTAINING PROTEIN (PTHR31846:SF7)
DEAD-BOX ATP-DEPENDENT RNA HELICASE 58, CHLOROPLASTIC (PTHR47958:SF95)

TRANSCRIPTION FACTOR MYB62 (PTHR45675:SF53)

BNACNNG31110D PROTEIN (PTHR24414:SF99)
ADP-RIBOSYLATION FACTOR-LIKE PROTEIN 8C (PTHR45732:SF12)

PANTHER Protein Class

membrane trafficking regulatory protein(PC00151)

glycosyltransferase(PC00111)
transporter(PC00227)
scaffold/adaptor protein(PC00226)

RNA splicing factor(PC00148)

transporter(PC00227)

oxygenase(PC00177)
hydrolase(PC00121)

chromatin/chromatin-binding, or -regulatory protein(PC00077)
translation initiation factor(PC00224)

lyase(PC00144)
oxygenase(PC00177)

DNA glycosylase(PC00010)
glycosyltransferase(PC00111)

ubiquitin-protein ligase(PC00234)
amino acid transporter(PC00046)

ribosomal protein(PC00202)

ATP-binding cassette (ABC) transporter(PC00003)
nucleotide kinase(PC00172)

SF3)

pantherGeneList

histidine kinase receptor of two-component system(PC00265)
chromatin/chromatin-binding, or -regulatory protein(PC00077)

calcium-binding protein(PC00060)
C4 zinc finger nuclear receptor(PC00169)
2:SF7)
ion channel(PC00133)

RNA splicing factor(PC00148)
RNA splicing factor(PC00148)

G-protein(PC00020)

RNA binding protein(PC00031)

basic leucine zipper transcription factor(PC00056)

BAA84809.1 (PTHR21229:SF22)

CAB71865.1-RELATED (PTHR14379:SF14)
transfer/carrier protein(PC00219)

EIN (PTHR33044:SF180)

homeodomain transcription factor(PC00119)

RNA binding protein(PC00031)

metalloprotease(PC00153)

deacetylase(PC00087)
nucleotidyltransferase(PC00174)

transporter(PC00227)

ubiquitin-protein ligase(PC00234)

F8)

acyltransferase(PC00042)
serine protease(PC00203)
non-receptor serine/threonine protein kinase(PC00167)

MADS box transcription factor(PC00250)

replication origin binding protein(PC00199)
translation factor(PC00223)
phosphatase modulator(PC00184)
secondary carrier transporter(PC00258)
ubiquitin-protein ligase(PC00234)

reductase(PC00198)

membrane traffic protein(PC00150)

ATP-binding cassette (ABC) transporter(PC00003)

dehydrogenase(PC00092)

dehydrogenase(PC00092)

deacetylase(PC00087)
protein phosphatase(PC00195)
2)

RNA binding protein(PC00031)

RNA binding protein(PC00031)

exodeoxyribonuclease(PC00098)
hydrolase(PC00121)

membrane traffic protein(PC00150)

secondary carrier transporter(PC00258)

pantherGeneList

RNA splicing factor(PC00148)
calmodulin-related(PC00061)

translation initiation factor(PC00224)
ubiquitin-protein ligase(PC00234)

transferase(PC00220)

mitochondrial carrier protein(PC00158)
ribosomal protein(PC00202)

RNA splicing factor(PC00148)

DNA binding protein(PC00009)

oxygenase(PC00177)

dehydrogenase(PC00092)

calmodulin-related(PC00061)

chromatin/chromatin-binding, or -regulatory protein(PC00077)

dehydrogenase(PC00092)

cysteine protease(PC00081)
ATP synthase(PC00002)

RNA binding protein(PC00031)

non-motor actin binding protein(PC00165)

non-motor actin binding protein(PC00165)

chromatin/chromatin-binding, or -regulatory protein(PC00077)
hydrolase(PC00121)

basic leucine zipper transcription factor(PC00056)

acyltransferase(PC00042)

general transcription factor(PC00259)

CAB72473.1-RELATED (PTHR31549:SF144)

methyltransferase(PC00155)

DNA binding protein(PC00009)

dehydratase(PC00091)

RNA processing factor(PC00147)

homeodomain transcription factor(PC00119)

C4 zinc finger nuclear receptor(PC00169)

scaffold/adaptor protein(PC00226)

microtubule binding motor protein(PC00156)

C2H2 zinc finger transcription factor(PC00248)

aminoacyl-tRNA synthetase(PC00047)

oxidase(PC00175)

esterase(PC00097)

cysteine protease(PC00081)

oxygenase(PC00177)

transferase(PC00220)

ribosomal protein(PC00202)

membrane traffic protein(PC00150)

DNA-binding transcription factor(PC00218)

'THR47910:SF1)

EIN (PTHR33044:SF160)

translation factor(PC00223)

chaperone(PC00072)

ribosomal protein(PC00202)

serine protease(PC00203)

pantherGeneList

serine protease(PC00203)

phosphodiesterase(PC00185)

MADS box transcription factor(PC00250)

non-receptor serine/threonine protein kinase(PC00167)

90)
esterase(PC00097)

translation initiation factor(PC00224)

scaffold/adaptor protein(PC00226)

lyase(PC00144);transferase(PC00220)

transporter(PC00227)
glycosidase(PC00110)

non-receptor tyrosine protein kinase(PC00168);non-receptor serine/threonine protein kinase(PC00167)

pantherGeneList

calmodulin-related(PC00061)
microtubule or microtubule-binding cytoskeletal protein(PC00157)
oxidase(PC00175)

oxidase(PC00175)
non-receptor serine/threonine protein kinase(PC00167)
E3 (PTHR47938:SF22)

scaffold/adaptor protein(PC00226)

metalloprotease(PC00153)
cysteine protease(PC00081)
lyase(PC00144)
oxygenase(PC00177)

acyltransferase(PC00042)
serine protease(PC00203)

non-motor microtubule binding protein(PC00166)

EIN (PTHR33044:SF180)
oxidoreductase(PC00176)

ligase(PC00142)

aspartic protease(PC00053)

membrane traffic protein(PC00150)

scaffold/adaptor protein(PC00226)

dehydrogenase(PC00092)

nucleotidyltransferase(PC00174)

ATP synthase(PC00002)

RNA binding protein(PC00031)

decarboxylase(PC00089)

ribosomal protein(PC00202)

general transcription factor(PC00259)

MADS box transcription factor(PC00250)

glycosidase(PC00110)

EIN-RELATED (PTHR31951:SF22)

translation initiation factor(PC00224)

pantherGeneList

non-motor microtubule binding protein(PC00166)

metalloprotease(PC00153)
EIN-RELATED (PTHR31951:SF22)

reductase(PC00198)
winged helix/forkhead transcription factor(PC00246)

methyltransferase(PC00155)

non-motor actin binding protein(PC00165)

pantherGeneList

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