



Supplemental Material to:

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**Gene expression profiling through microarray analysis in
Arabidopsis thaliana colonized by Pseudomonas putida
MTCC5279, a plant growth promoting rhizobacterium**

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Custom ID	Gene Symbol	Gene_ID	Accession	Fold change
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obsarabidopsis#22528	AT3G07000	819885	NM_111580.2	3.379800085
obsarabidopsis#22681	AT3G10680	820237	NM_111904.1	3.856600046
obsarabidopsis#22779	AT3G12660	820446	NM_112101.1	4.091899991
obsarabidopsis#22870	AT3G14180	820635	NM_112274.3	3.131700039
obsarabidopsis#23161	AT3G19200	821454	NM_112807.1	4.020800114
obsarabidopsis#23346	AT3G22410	---	NM_113138.2	4.344799906
obsarabidopsis#23756		---	AP001296.1	5.451599777
obsarabidopsis#23778		---	AP001301.1	3.254000008
obsarabidopsis#23822	AT3G44770	823608	NM_114346.1	3.685299993
obsarabidopsis#23871	AT3G49380	824100	NM_114798.1	3.209900111
obsarabidopsis#23894	AT3G51020	---	NM_114962.1	3.415799975
obsarabidopsis#24039	AT4G01780	824027///828078	NM_116408.1	3.824900091
obsarabidopsis#24088	AT4G03480	827906	NM_116586.1	3.43810007
obsarabidopsis#24108	AT4G03830	825690	NM_116621.1	3.681300044
obsarabidopsis#24145	AT4G08130	---	NM_116882.1	3.314200044
obsarabidopsis#24276		---	Z97339.2	3.936499953
obsarabidopsis#24278	AT4G15640	827241	NM_117655.3	3.061100006
obsarabidopsis#24403	AT4G21340	827884	NM_118254.3	3.280600131
obsarabidopsis#24433	AT4G23330	828432	NM_118462.1	3.113900065
obsarabidopsis#24490	AT4G27810	---	NM_118919.2	3.059100002
obsarabidopsis#24581	AT4G36170	829774	NM_119784.1	3.938600063
obsarabidopsis#24615	AT4G39440	830099	NM_120104.1	3.37929976

Gene Description

unknown protein

unknown protein

LIL3:1

unknown protein

unknown protein

GRF6 (GF14 LAMBDA)

BCCP2

lyase

SMO1-3 (STEROL 4-ALPHA METHYL OXIDASE)

AIR3

LHY (LATE ELONGATED HYPOCOTYL)

DNA binding / transcription factor

zinc ion binding

Arabidopsis thaliana chromosome I BAC T14P4 genomic sequence,complete sequence

UVH6 (ULTRAVIOLET HYPERSENSITIVE 6)

binding

carbohydrate transporter/ sugar porter

kinase

UDP-glycosyltransferase/ transferase, transferring glycosyl groups

unknown protein

unknown protein

ATP binding / carbohydrate binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase/ sugar

ATP binding

unknown protein

AVP1

SRG1 (SENESCENCE-RELATED GENE 1)

catalytic/ hydrolase

transferase/ transferase, transferring glycosyl groups

glutathione dehydrogenase (ascorbate)

MP (MONOPTEROS)

ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase

DNA binding / transcription factor

SULTR1

transferase, transferring glycosyl groups

copper ion binding / electron transporter

unknown protein

peptidase/ protein binding / ubiquitin-protein ligase/ zinc ion binding

unknown protein

oxidoreductase

ARAB-1

PAI3 (PHOSPHORIBOSYLANTHRANILATE ISOMERASE 3)

electron carrier

cationic amino acid transporter

ATSYP24

transporter

GTP binding

Arabidopsis thaliana chromosome 1 BAC F7P12 genomic sequence,complete sequence.

ARF22

carbohydrate transporter/ sugar porter

Arabidopsis thaliana chromosome III BAC F3L24 genomic sequence,complete sequence

glycine hydroxymethyltransferase

ATGLR3.3

Arabidopsis thaliana DNA chromosome 3, BAC clone F12A12

ATPREP2

protein binding / ubiquitin-protein ligase/ zinc ion binding

ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase

ATHB-15 (INCURVATA 4)

protein binding / ubiquitin-protein ligase/ zinc ion binding

ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase

ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase

nucleic acid binding / transcription factor/ zinc ion binding

ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase

3'-5' exonuclease/ nucleic acid binding

CRT1 (CALRETICULIN 1)

unknown protein

transmembrane receptor

carboxylic ester hydrolase/ hydrolase, acting on ester bonds / lipase

SC3 (SECRETORY CARRIER 3)

lyase

ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase

APR2 (5'ADENYLYLPHOSPHOSULFATE REDUCTASE 2)

ATP binding / nucleoside-triphosphatase/ nucleotide binding / transmembrane receptor

ATP binding / transmembrane receptor

MYB20

nucleic acid binding

carbohydrate transporter/ sugar porter

ATCUL3B/CUL3B

KUP6

SERK1 (SOMATIC EMBRYOGENESIS RECEPTOR-LIKE KINASE 1)

oxidoreductase/ oxidoreductase, acting on the CH-OH group of donors, NAD or NADP as acceptor

ATFX/GER1

acyltransferase/ carboxylic ester hydrolase/ lipase

CPK29

ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase

protein binding / ubiquitin-protein ligase/ zinc ion binding

ADH1 (ALCOHOL DEHYDROGENASE 1)

catalytic

DNA binding / transcription factor
VHA-A
transcription regulator
RIE1 (RING-FINGER PROTEIN FOR EMBRYOGENESIS)
ATPTR2-B (NITRATE TRANSPORTER 1)
ATP binding / protein kinase/ protein serine/threonine kinase
OPR3
Arabidopsis thaliana chromosome 2 clone T12H3 map ve013, complete sequence
Arabidopsis thaliana chromosome 2 clone T12J2 map mi421, complete sequence
Arabidopsis thaliana chromosome 2 BAC F23H14 genomic sequence,complete sequence
Arabidopsis thaliana chromosome 2 clone F7E22 map mi421, complete sequence
Arabidopsis thaliana chromosome 2 clone T24I21 map mi398, complete sequence
ERD7 (EARLY-RESPONSIVE TO DEHYDRATION 7)
signal recognition particle binding
ATP binding / kinase/ protein kinase/ protein serine/threonine kinase
N-acetyltransferase
AGP17 (ARABINO GALACTAN PROTEIN 17)
NRAMP3
ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase
EMB1997
ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase
CYP707A2
CIPK11
DNA binding / transcription factor
hydrolase/ inositol or phosphatidylinositol phosphatase
hydrolase, hydrolyzing O-glycosyl compounds
L-tyrosine transporter
structural constituent of ribosome / transcription initiation factor/ transcriptional elongation regulator
ATEYA
ATORC2 (ORIGIN RECOGNITION COMPLEX SECOND LARGEST SUBUNIT)
amino acid transporter/ uracil transporter
ATMAK3
PSRP4 (PLASTID-SPECIFIC RIBOSOMAL PROTEIN 4)
peptidyl-prolyl cis-trans isomerase
nutrient reservoir
catalytic/ hydrolase
LCR51
peroxidase
AT-HSFB3
transcription factor
ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase
chitin binding / chitinase
Arabidopsis thaliana N-myristoyltransferase-like protein 2 mRNA, complete cds
GOS12 (GOLGI SNARE 12)

transketolase
GAE4 (UDP-D-GLUCURONATE 4-EPIMERASE 4)
JAR1 (JASMONATE RESISTANT 1)
PLDP2
water channel
beta-fructofuranosidase
ATGSL10 (GLUCAN SYNTHASE-LIKE 10)
ammonia ligase/ ammonia-lyase
transcription factor
ATP binding / aspartate-tRNA ligase/ lysine-tRNA ligase/ nucleic acid binding / tRNA ligase
ATP binding / DNA binding / DNA topoisomerase (ATP-hydrolyzing)
PAP1 (PHYTOCHROME-ASSOCIATED PROTEIN 1)
ATMKK5 (MITOGEN-ACTIVATED PROTEIN KINASE KINASE 5)
TOPII (TOPOISOMERASE II)
Arabidopsis thaliana DNA chromosome 5, BAC clone F7J8 (ESSA project)
guanyl-nucleotide exchange factor
kinase
kinase
unknown protein
UDP-glycosyltransferase/ transferase, transferring glycosyl groups
ASN1 (DARK INDUCIBLE 6)
ATATH2
SCPL37
SYP122
inorganic diphosphatase/ magnesium ion binding / pyrophosphatase
ubiquitin-protein ligase
AREB3 (ABA-RESPONSIVE ELEMENT BINDING PROTEIN 3)
CPK32
DNA binding / transcription factor
NRPA1
protein binding / structural constituent of ribosome
unknown protein
GBF2 (G-BOX BINDING FACTOR 2)
protein binding
EZA1
DNA binding / transcription factor
RHA1B
ATPase
signal transducer
unknown protein
glycine hydroxymethyltransferase
transferase
AMP-activated protein kinase
ATP binding / nucleoside-triphosphatase/ nucleotide binding / transmembrane receptor

transcription factor
formyltetrahydrofolate deformylase/ hydroxymethyl-, formyl- and related transferase
unknown protein
SHD (SHEPHERD)
unknown protein
ATP binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase
cytidine deaminase/ hydrolase/ zinc ion binding
MGD1 (MONOGALACTOSYLDIACYLGLYCEROL SYNTHASE 1)
BGAL11
RHA3B
HMGB5 (HIGH MOBILITY GROUP B 5)
SKS15
CIPK15 (CBL-INTERACTING PROTEIN KINASE 15)
Arabidopsis thaliana DNA chromosome 5, BAC clone T1E22 (ESSA project)
unknown protein
iron ion binding / isopenicillin-N synthase
PMSR3 (PEPTIDEMETHIONINE SULFOXIDE REDUCTASE 3)
FMN binding / NADH dehydrogenase (ubiquinone)/ iron ion binding
kinase
CYCD4
CPK7 (CALMODULIN-DOMAIN PROTEIN KINASE 7)
AAC2
DEL2/E2FD/E2L1
XPO1A
ATGSTF12 (GLUTATHIONE S-TRANSFERASE 26)
calcium:sodium antiporter/ cation:cation antiporter
peroxidase
unknown protein
microtubule motor
unknown protein
ATP binding / ATP-dependent helicase/ RNA binding / double-stranded RNA binding / helicase/ nucleic acid binding / ribon
ATRAD51
ANAC089
unknown protein
catalytic/ protein phosphatase type 2C
ATARLA1A
protein prenyltransferase
AZF3 (ARABIDOPSIS ZINC-FINGER PROTEIN 3)
PHT6
protein binding / transporter
hydrolase
ATPK5
protein binding / signal transducer
COR78 (COLD REGULATED 78)

calcium-transporting ATPase/ calmodulin binding
unknown protein
O-methyltransferase
1-aminocyclopropane-1-carboxylate synthase/ transaminase/ transferase, transferring nitrogenous groups
transferase, transferring glycosyl groups
ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase
DFL1 (DWARF IN LIGHT 1)
acyltransferase
acyltransferase
unknown protein
copper ion binding / electron transporter
phosphoinositide phospholipase C/ phospholipase C
ATUCP2 (UNCOUPLING PROTEIN 2)
peptidase/ subtilase
ATATH15
PRH75
ATHDH (HISTIDINOL DEHYDROGENASE)
MLO10
alpha-mannosidase
unknown protein
structural constituent of ribosome
CYP71B5 (CYTOCHROME P450 71B5)
unknown protein
UDP-glycosyltransferase/ transferase, transferring glycosyl groups
carboxylic ester hydrolase/ hydrolase, acting on ester bonds / lipase
S-adenosylmethionine-dependent methyltransferase
unknown protein
PMSR1 (PEPTIDEMETHIONINE SULFOXIDE REDUCTASE 1)
DNA binding
unknown protein
carboxylic ester hydrolase/ hydrolase, acting on ester bonds
CYP705A6
unknown protein
unknown protein
unknown protein
unknown protein
SYP73 (SYNTAXIN OF PLANTS 73)
unknown protein
DNA binding / transcription factor
nucleic acid binding / rhodopsin-like receptor/ zinc ion binding
unknown protein
transcription regulator
unknown protein
unknown protein

protein binding / zinc ion binding
monovalent cation:proton antiporter
RNA binding / nucleic acid binding
unknown protein
unknown protein
PAK
unknown protein
DNA binding / transcription factor
transferase, transferring glycosyl groups / transferase, transferring hexosyl groups
unknown protein
virion binding
unknown protein
protein binding / ubiquitin-protein ligase/ zinc ion binding
unknown protein
unknown protein
4-coumarate-CoA ligase
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
RNA binding / RNA-directed DNA polymerase
unknown protein
unknown protein
electron transporter/ thiol-disulfide exchange intermediate
unknown protein
hydrolase
acyltransferase
acyltransferase
TT1 (TRANSPARENT TESTA 1)
protein binding / zinc ion binding
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
kinase
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein

LCR66/PDF2.4
nucleotide binding
unknown protein
unknown protein
catalytic/ hydrolase
transcription regulator
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
catalytic
unknown protein
unknown protein
cation transporter
ANAC058
UBC19
ATP binding / kinase/ protein serine/threonine kinase
ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase
ATECP31
ATVAMP728
cysteine-type peptidase
nucleotide binding
unknown protein
transporter
transporter
unknown protein
lipid binding
protein binding
unknown protein
unknown protein
unknown protein
unknown protein
heat shock protein binding / unfolded protein binding
ATBS14A
unknown protein
unknown protein
TXR1 (THAXTOMIN A RESISTANT 1)
unknown protein
protein binding / ubiquitin-protein ligase/ zinc ion binding
DNA binding / transcription factor
protein binding / ubiquitin-protein ligase/ zinc ion binding
unknown protein
unknown protein

unknown protein
SULTR1
unknown protein
MYB42
unknown protein
unknown protein
RNA polymerase II transcription factor/ transcription initiation factor
oxidoreductase
unknown protein
unknown protein
hydrolase/ protein serine/threonine phosphatase
unknown protein
calcium ion binding
unknown protein
RIC7 (ROP-INTERACTIVE CRIB MOTIF-CONTAINING PROTEIN 7)
protein binding / ubiquitin-protein ligase/ zinc ion binding
protein binding / ubiquitin-protein ligase/ zinc ion binding
catalytic
unknown protein
unknown protein
protein binding
unknown protein
KCS2
unknown protein
ATP binding
DNA binding
structural constituent of ribosome
protein binding / ubiquitin-protein ligase/ zinc ion binding
unknown protein
unknown protein
HAT14
nucleic acid binding
organic anion transporter
ATP binding / protein kinase
unknown protein
AGP15 (ARABINOGALACTAN PROTEIN 15)
unknown protein
unknown protein
transferase
unknown protein
unknown protein
ATBPM1
unknown protein
unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

Arabidopsis thaliana BAC F4I4

nucleic acid binding

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

transcription factor

unknown protein

protein binding

WOX8

enzyme inhibitor/ pectinesterase/ pectinesterase inhibitor

unknown protein

transcription factor/ zinc ion binding

unknown protein

unknown protein

enzyme inhibitor/ pectinesterase/ pectinesterase inhibitor

unknown protein

copper ion binding

unknown protein

unknown protein

unknown protein

protein translocase/ protein transporter

unknown protein

catalytic/ hydrolase

DNA binding / transcription factor

cysteine-type peptidase

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein
unknown protein
unknown protein
unknown protein
CYP705A18
unknown protein
RALFL26 (RALF-LIKE 26)
ATGA2OX3
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
DNA binding / transcription factor
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
amino acid permease
nucleotide binding
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
EMB2219
unknown protein
unknown protein
protein binding
unknown protein
unknown protein
unknown protein
catalytic/ phosphoprotein phosphatase
unknown protein

monovalent cation:proton antiporter
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
transcription factor
unknown protein
unknown protein
protein binding / zinc ion binding
unknown protein
unknown protein
transcription factor
unknown protein
unknown protein
Arabidopsis thaliana genomic DNA, chromosome 3, BAC clone:F11I2
Arabidopsis thaliana genomic DNA, chromosome 3, BAC clone:F8N14
unknown protein
calmodulin binding
unknown protein
unknown protein
protein binding
unknown protein
unknown protein
Arabidopsis thaliana DNA chromosome 4, ESSA I FCA contig fragment No. 4
unknown protein
transcription factor
unknown protein
unknown protein
unknown protein
unknown protein

r binding

release III

Custom ID	Gene Symbol	Gene_ID	Accession	Control
obsarabidopsis#00049	AT2G04025	814929	NM_126438.2	0.217099994
obsarabidopsis#00122	AT2G20616	816587///816612	NM_127624.1	1.040099978
obsarabidopsis#00276	AT1G02460	839443	NM_100127.2	-0.243399993
obsarabidopsis#00280	BXL2	837940	NM_100144.2	-2.997400045
obsarabidopsis#00283	PGA4	839391	NM_100158.1	-0.278499991
obsarabidopsis#00284	ATCEL2	839385	NM_100159.2	-1.460199952
obsarabidopsis#00310	AT1G03590	839447	NM_100239.3	0.215200007
obsarabidopsis#00362	AT1G05170	839292	NM_100395.1	1.137500048
obsarabidopsis#00479	EMB2284		NM_100699.1	0.717000008
obsarabidopsis#00499	AT1G08920	837413	NM_100764.2	0.853299975
obsarabidopsis#00504	ATRBOHB	837430	NM_100780.3	0.731899977
obsarabidopsis#00515	AT1G09380	837460	NM_100808.2	-1.762599945
obsarabidopsis#00516	AT1G09390	837461	NM_100809.3	0.126499996
obsarabidopsis#00517	G6PD4	837465	NM_100813.1	0.523299992
obsarabidopsis#00620	AT1G11710	837715	NM_101043.2	8.269000053
obsarabidopsis#00687	AT1G13640	837925	NM_101234.2	0.336499989
obsarabidopsis#00695	AT1G14020	837963	NM_101268.2	1.032199979
obsarabidopsis#00728	RDR1	838044	NM_101348.2	-0.529299974
obsarabidopsis#00757	LHCB6	838151	NM_101450.3	16.94009972
obsarabidopsis#00891	AT1G19700	838558	NM_101826.1	1.524600029
obsarabidopsis#00987	AT1G22810	838887	NM_102128.2	1.164800048
obsarabidopsis#00992	AT1G22960	838903	NM_102143.1	0.358200014
obsarabidopsis#01001	GGT1	838940	NM_102180.2	9.850999832
obsarabidopsis#01026	AT1G24020	839014	NM_102249.3	1.063500047
obsarabidopsis#01139	AT1G28450		NM_102613.1	3.369100094
obsarabidopsis#01156	AT1G29380		NM_102677.2	0.077
obsarabidopsis#01166	AT1G29660	839843	NM_102706.1	0.153200001
obsarabidopsis#01169	AT1G29740		NM_102714.2	3.576200008
obsarabidopsis#01176	AT1G29960	2745760///5007741///83974	NM_102736.1	1.137500048
obsarabidopsis#01215	UFO	839982	NM_102834.1	0.276300013
obsarabidopsis#01407			AC073433.9	-0.052299999
obsarabidopsis#01542	AT1G49900	841413	NM_103877.3	0.453799993
obsarabidopsis#01554	VIIIA	841458	NM_103919.2	0.530700028
obsarabidopsis#01599	4CL1	841593	NM_104046.2	1.502900004
obsarabidopsis#01623	AT1G52070	841636	NM_104088.2	0.7852
obsarabidopsis#01644	AT1G52660	841698	NM_104144.1	0.717000008
obsarabidopsis#01672	AT1G53140	841748	NM_104193.3	0.241300002
obsarabidopsis#01783	AT1G56670	842122	NM_104543.2	1.232200027
obsarabidopsis#01861	AT1G60470	842342	NM_104734.2	15.54500008
obsarabidopsis#01884	AT1G61100	842403	NM_104791.2	-0.385500014
obsarabidopsis#01922	AT1G62170	842513	NM_104898.1	0.0579
obsarabidopsis#01956	NRPD1a		NM_104980.2	5.311299801
obsarabidopsis#02003	AT1G64390	842747	NM_105114.2	3.764300108

obsarabidopsis#02089	AT1G66800	842998	NM_105351.2	3.334300041
obsarabidopsis#02139	AT-HSFA8		NM_105467.3	-0.396699995
obsarabidopsis#02141	ATPIS1	843128	NM_105470.1	-0.514100015
obsarabidopsis#02171	ATPPC4	843206	NM_105548.4	1.588799953
obsarabidopsis#02340	AT1G72870	843618	NM_105945.2	0.127499998
obsarabidopsis#02369	AT1G73600	6241275///843694	NM_106018.3	9.836600304
obsarabidopsis#02472	AT1G75880	843921	NM_106238.2	1.040099978
obsarabidopsis#02477	EXL6	843926	NM_106243.2	0.028899999
obsarabidopsis#02543	AT1G77670	844103	NM_106416.1	0.511099994
obsarabidopsis#02605	AT1G79040	844245	NM_106555.2	14.64000034
obsarabidopsis#02648	TMM	844348	NM_106657.2	1.502900004
obsarabidopsis#02654	AT1G80310	844371	NM_106680.3	9.498200417
obsarabidopsis#02761	ARPN	814816	NM_126340.1	5.459400177
obsarabidopsis#02790	CDC48B	814895	NM_126415.4	0.468199998
obsarabidopsis#02828	AT2G04650	815007	NM_126494.4	13.43700027
obsarabidopsis#02871			AC005970.3	0.608600002
obsarabidopsis#02884			AC006918.9	-0.353599995
obsarabidopsis#02928	AT2G07690	815415	NM_126771.3	0.164900005
obsarabidopsis#02935	AT3G30550		NM_113956.1	0.837400019
obsarabidopsis#03055			AC005396.3	-0.999199986
obsarabidopsis#03094			AC007134.10	0.215200007
obsarabidopsis#03213	HB-2	816370	NM_127411.1	1.437000036
obsarabidopsis#03456	PDE319		NM_127973.2	-1.283499956
obsarabidopsis#03492	AT2G24840	817021	NM_179727.1	2.696099997
obsarabidopsis#03511	CESA10	817092	NM_128111.2	0.215200007
obsarabidopsis#03579	AT2G26940	817235	NM_128251.1	1.131000042
obsarabidopsis#03584	PAG1	817244	NM_128260.3	2.770400047
obsarabidopsis#03668	AT2G28970	817446	NM_128456.1	0.650600016
obsarabidopsis#03672	AT2G29060	817454	NM_128463.2	0.717000008
obsarabidopsis#03680	AT2G29140	817463///817469	NM_128471.1	0.567600012
obsarabidopsis#03707	AT2G29870		NM_128541.1	0.837400019
obsarabidopsis#03743	AT2G30570	817606	NM_128609.3	9.105199814
obsarabidopsis#03772	ATERF15	817680	NM_179831.1	3.294300079
obsarabidopsis#03899	AT2G34080	817969	NM_128959.2	1.024399996
obsarabidopsis#04001	AT2G36690	818241	NM_129224.2	0.511099994
obsarabidopsis#04044	AT2G37590	818336	NM_129315.2	-0.044399999
obsarabidopsis#04103	AT2G39040	818490	NM_129461.1	0.276300013
obsarabidopsis#04148	LHCB4.3	818599	NM_129568.2	2.990600109
obsarabidopsis#04156	AT2G40250	818617	NM_129583.1	-0.499199986
obsarabidopsis#04228	AT2G41820	818781	NM_129746.2	0.215200007
obsarabidopsis#04323	AT2G43850	818989	NM_129947.3	0.025599999
obsarabidopsis#04375	AT2G45120	819119	NM_130075.3	1.988199949
obsarabidopsis#04520	AT3G01270	821142	NM_110993.2	1.610000014
obsarabidopsis#04556	AT3G02270	821200	NM_111094.1	-0.174199998

obsarabidopsis#04667	AT3G04970	819657	NM_111369.3	0.567600012
obsarabidopsis#04736	AT3G06690		NM_111549.1	0.7852
obsarabidopsis#04771	AT3G07670	819958	NM_111646.2	0.99059999
obsarabidopsis#04808	RGP3	820039	NM_111724.2	0.064300001
obsarabidopsis#04876	AT3G10550	820220	NM_111891.3	-0.990700006
obsarabidopsis#04970	AT3G13050	820491	NM_112142.3	0.474099994
obsarabidopsis#05129	AT3G19800	821517	NM_112870.3	2.575299978
obsarabidopsis#05248	AT3G43190	823393	NM_114187.3	2.231400013
obsarabidopsis#05324	ATHRS1	823753	NM_114479.3	2.018399954
obsarabidopsis#05372	AT3G47400	823894	NM_114608.2	0.684800029
obsarabidopsis#05386	ATATH5		NM_114645.2	-1.444000006
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obsarabidopsis#23720	RALFL27	822684	NM_113904.2	0.889199972
obsarabidopsis#23808	AT3G43490		NM_114217.1	0.1149
obsarabidopsis#23818	AT3G43870		NM_114255.1	1.480999947

obsarabidopsis#23844	AT3G47100	823863	NM_114577.2	3.117899895
obsarabidopsis#23904	AT3G52230	824388	NM_115083.1	2.430299997
obsarabidopsis#23920	AT3G52620	824428	NM_115122.1	0.88410002
obsarabidopsis#23933	AT3G53370	824505	NM_115197.2	3.185499907
obsarabidopsis#24027	AT4G01340	828062	NM_116364.1	22.63269997
obsarabidopsis#24168	AT4G09850	826574	NM_117053.1	0.623099983
obsarabidopsis#24182	AT4G10740		NM_117142.1	1.502900004
obsarabidopsis#24222	AT4G14050	827041	NM_117480.3	0.0098
obsarabidopsis#24394	AT4G20220	827769	NM_118141.1	3.760900021
obsarabidopsis#24608	AT4G39190	830074	NM_120079.1	1.424700022
obsarabidopsis#24613	AT4G39420	830097	NM_120102.1	0.532800019
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Gene Description

unknown protein

unknown protein

polygalacturonase

BXL2 (BETA-XYLOSIDASE 2)

PGA4 (POLYGALACTURONASE 4)

ATCEL2

catalytic/ protein phosphatase type 2C

transferase, transferring glycosyl groups / transferase, transferring hexosyl groups

EMB2284

carbohydrate transporter/ sugar porter

ATRBOHB

unknown protein

carboxylic ester hydrolase/ hydrolase, acting on ester bonds

G6PD4

unknown protein

inositol or phosphatidylinositol kinase/ phosphotransferase, alcohol group as acceptor

unknown protein

RDR1 (RNA-DEPENDENT RNA POLYMERASE 1)

LHCB6

DNA binding / transcription factor

DNA binding / transcription factor

unknown protein

GGT1 (ALANINE-2-OXOGLUTARATE AMINOTRANSFERASE 1)

unknown protein

DNA binding / transcription factor

unknown protein

carboxylic ester hydrolase/ hydrolase, acting on ester bonds

kinase

peptidase/ transcription factor

UFO (UNUSUAL FLORAL ORGANS)

Arabidopsis thaliana chromosome 1 BAC F19C17 genomic sequence,complete sequence

nucleic acid binding / transcription factor/ zinc ion binding

VIIIA

4CL1 (4-COUMARATE:COA LIGASE 1)

unknown protein

ATP binding

ATP binding / GTP binding / GTPase

carboxylic ester hydrolase/ hydrolase, acting on ester bonds

transferase, transferring glycosyl groups / transferase, transferring hexosyl groups

unknown protein

serine-type endopeptidase inhibitor

NRPD1a

hydrolase, hydrolyzing O-glycosyl compounds

alcohol dehydrogenase/ cinnamyl-alcohol dehydrogenase
AT-HSFA8
ATPIS1
ATPPC4
ATP binding / transmembrane receptor
S-adenosylmethionine-dependent methyltransferase/ methyltransferase/ phosphoethanolamine N-methyltransferase
acyltransferase/ carboxylic ester hydrolase/ lipase
EXL6
1-aminocyclopropane-1-carboxylate synthase/ transaminase/ transferase, transferring nitrogenous groups
unknown protein
TMM (TOO MANY MOUTHS)
sulfate transporter
ARPN (PLANTACYANIN)
CDC48B
nucleotidyltransferase
Arabidopsis thaliana chromosome 2 clone T6P5 map mi310, complete sequence
Arabidopsis thaliana chromosome 2 clone F18P14 map ve013, complete sequence
ATP binding / DNA binding / DNA-dependent ATPase
unknown protein
Arabidopsis thaliana chromosome 2 clone T26I20 map mi398, complete sequence
Arabidopsis thaliana chromosome 2 clone F7H1 map mi398, complete sequence
HB-2
PDE319
DNA binding / transcription factor
CESA10 (CELLULASE SYNTHASE 10)
nucleic acid binding / transcription factor/ zinc ion binding
PAG1
ATP binding / kinase/ protein serine/threonine kinase
transcription factor
RNA binding
water channel
unknown protein
ATERF15
cysteine-type endopeptidase/ cysteine-type peptidase
oxidoreductase, acting on paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and
DNA binding / transcription factor
peroxidase
LHCB4.3
carboxylic ester hydrolase/ hydrolase, acting on ester bonds
ATP binding / kinase/ protein serine/threonine kinase
ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase
nucleic acid binding / transcription factor/ zinc ion binding
lyase/ pectate lyase
translation initiation factor

metal ion binding

acyl-CoA oxidase

unknown protein

RGP3 (REVERSIBLY GLYCOSYLATED POLYPEPTIDE 3)

phosphoprotein phosphatase

carbohydrate transporter/ sugar porter/ transporter

unknown protein

UDP-glycosyltransferase/ sucrose synthase/ transferase, transferring glycosyl groups

ATHRS1 (HISTIDYL-TRNA SYNTHETASE 1)

enzyme inhibitor/ pectinesterase

ATATH5

heat shock protein binding / unfolded protein binding

OASC

hydrogen-exporting ATPase, phosphorylative mechanism

GLP10 (GERMIN-LIKE PROTEIN 10)

CRCK2

MSH6

calcium ion binding

kinase

hydrogen-transporting ATP synthase, rotational mechanism / hydrogen-transporting ATPase, rotational mechanism

clathrin binding

SCPL20

kinase/ protein binding

protein binding / transporter

transferase, transferring glycosyl groups / transferase, transferring hexosyl groups

ATP binding

unknown protein

lyase

kinase

SKS1 (SKU5 SIMILAR 1)

FEY (FOREVER YOUNG)

GAMMA-VPE

unknown protein

UGT76C1

unknown protein

protein binding / ubiquitin-protein ligase/ zinc ion binding

unknown protein

L-aspartate oxidase/ disulfide oxidoreductase/ oxidoreductase

PAM1 (PLANT ADHESION MOLECULE 1)

IPP1

UTP-glucose-1-phosphate uridylyltransferase/ nucleotidyltransferase

NIT4 (NITRILASE 4)

Arabidopsis thaliana DNA, chromosome 5 centromere region,clone:F22D12

ATP binding / protein binding / protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase

PDF1.2

polygalacturonase

peptidase/ subtilase

ATPase, coupled to transmembrane movement of substances

SAD1 (SUPERSENSITIVE TO ABA AND DROUGHT 1)

ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase

unknown protein

unknown protein

ILL1

transcription factor/ zinc ion binding

UDP-glycosyltransferase/ transferase, transferring hexosyl groups

HSP18.2 (HEAT SHOCK PROTEIN 18.2)

carbohydrate transporter/ sugar porter

oxidoreductase

DNA binding / transcription factor

GRF4

RNA binding / structural constituent of ribosome

UDP-glycosyltransferase/ transferase, transferring hexosyl groups

nucleic acid binding / transcription factor/ zinc ion binding

unknown protein

calcium ion binding

structural constituent of cell wall

unknown protein

unknown protein

unknown protein

antiporter/ drug transporter/ transporter

unknown protein

protein binding

nucleic acid binding / transcription factor

rhodopsin-like receptor

enzyme inhibitor/ pectinesterase/ pectinesterase inhibitor

oligosaccharide transporter

unknown protein

unknown protein

calcium ion binding

WAKL5 (WALL ASSOCIATED KINASE-LIKE 5)

unknown protein

unknown protein

catalytic/ hydrolase

hydrolase

unknown protein

unknown protein

protein binding

EMB2204

unknown protein

hydrolase, hydrolyzing O-glycosyl compounds

nucleotide binding

ATP binding / DNA binding / nucleoside-triphosphatase/ nucleotide binding

DNA binding

unknown protein

unknown protein

unknown protein

unknown protein

carboxylic ester hydrolase/ hydrolase, acting on ester bonds

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

transcription factor

unknown protein

ZF14

nucleic acid binding

nucleotide binding

serine-type endopeptidase inhibitor

unknown protein

cysteine-type endopeptidase/ ubiquitin thiolesterase

unknown protein

unknown protein

unknown protein

unknown protein

WRKY36

unknown protein

NADK3

unknown protein

ATIPT8

CYP705A33

kinase

SCPL21

hydrolase, hydrolyzing O-glycosyl compounds

heme binding / iron ion binding / monooxygenase/ oxygen binding

ATP binding / DNA binding / DNA-dependent ATPase/ nucleoside-triphosphatase/ nucleotide binding

ubiquitin-protein ligase/ zinc ion binding

unknown protein

unknown protein

aspartic-type endopeptidase/ pepsin A

unknown protein

unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
bile acid:sodium symporter
unknown protein
unknown protein
unknown protein
unknown protein
unknown protein
O-methyltransferase/ S-adenosylmethionine-dependent methyltransferase
unknown protein
protein binding / ubiquitin-protein ligase/ zinc ion binding
FAD binding / oxidoreductase
DNA binding
unknown protein
protein binding
Arabidopsis thaliana DNA chromosome 4, contig fragment No. 19.
unknown protein
ATP binding / transmembrane receptor
WRKY19
lipid binding
unknown protein
adenine phosphoribosyltransferase/ transferase
endopeptidase Clp
unknown protein
binding
DNA binding / transcription factor
cinnamyl-alcohol dehydrogenase
unknown protein
unknown protein
(S)-coclaurine-N-methyltransferase/ S-adenosylmethionine-dependent methyltransferase/ cyclopropane-fatty-acyl-phospholipid
unknown protein
catalytic/ hydrolase
DNA binding / transcription factor
unknown protein
receptor
kinase
unknown protein
EIN2 (ETHYLENE INSENSITIVE 2)
unknown protein
unknown protein
nucleotide binding

KEA6

unknown protein

protein binding

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

structural constituent of ribosome

unknown protein

VAR1 (VARIEGATED 1)

unknown protein

unknown protein

DNA binding / transcription factor

metal ion binding

unknown protein

oxidoreductase

AGP14 (ARABINOGALACTAN PROTEIN 14)

unknown protein

XRCC3

unknown protein

unknown protein

SRR1 (SENSITIVITY TO RED LIGHT REDUCED 1)

VIP2

unknown protein

ANAC103

DNA binding / DNA-directed DNA polymerase

unknown protein

transferase, transferring glycosyl groups

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

Genomic sequence for Arabidopsis thaliana BAC T3P18 from Chromosome 1, complete sequence

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

Arabidopsis thaliana chromosome 1 BAC F9D18 sequence, complete sequence

protein binding / zinc ion binding

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

RCA (RUBISCO ACTIVASE)

protein binding

unknown protein

structural constituent of cell wall

AT-P4H-2

nucleic acid binding

unknown protein

unknown protein

unknown protein

3'-5' exonuclease/ nucleic acid binding

DNA-3-methyladenine glycosylase I

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

PHO1 (PHOSPHATE 1)

unknown protein

unknown protein

unknown protein

RALFL27 (RALF-LIKE 27)

nucleic acid binding

unknown protein

unknown protein

unknown protein

unknown protein

DNA binding

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

unknown protein

d incorporation of one atom each of oxygen into both donors

1 synthase

