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7 Appendix A

The region between base pairs number 19,407,129 to 27,015,480 on rice chromosome 7 and between base pairs number 20,866,047 to 25,816,839 on chromosome 4 were identified as being syntenous with the barley black point QTL on chromosome 2H. These two rice genomic regions were broken up into 100 Kb contigs. Barley ESTs showing sequence similarity to the rice contigs were identified using BLASTn searches and subsequently annotated using BLASTx searches against the GenBank non-redundant protein database. Annotated ESTs were then grouped into 11 functional categories. The results are presented in the following table.

Rice chromosome 7 contigs bp 19,407,129 to 27,015,480	Functional group
Putative ID 1	
TNP2-like protein [Sorghum bicolor]	Transposons
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
Putative ID 2	
CD40 antigen isoform 2 precursor variant [Homo sapiens]	Signal transduction
adenosine 5'-phosphosulfate reductase [Zea mays]	Metabolism & energy
adenosine 5'-phosphosulfate reductase 1 [Zea mays]	Metabolism & energy
adenosine 5'-phosphosulfate reductase 2 [Zea mays]	Metabolism & energy
putative methionine aminopeptidase I (MAP1) [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
Putative ID 3	
ribosomal protein S15 [Pisum sativum]	Protein synthesis, destination and storage
Similar to Saccharomyces RAD16 (gbIX78993). [Arabidopsis thaliana]	Cell growth / division
TNP2-like protein [Sorghum bicolor]	Transposons
autophagy [Triticum aestivum]	Cell growth / division
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
OSJNBa0093F16.8 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative DNA repair protein [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative ATP synthase gamma chain 1, chloroplast (H(+)-transporting two-sector ATPase/F(1)-ATPase/ATPC1) [Oryza sativa]	Metabolism & energy
putative CRP1 protein [Oryza sativa (japonica cultivar-group)]	Cell structure
Putative ID 4	
calcium-dependent protein kinase; CDPK [Triticum aestivum]	Signal transduction
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
calcium-dependent protein kinase [Triticum aestivum]	Signal transduction
calcium-dependent protein kinase [Triticum aestivum]	Signal transduction
no hits found	Unknown
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
MET-10+related protein-like [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 5	
protein phosphatase type 2C [Lotus japonicus]	Signal transduction
protein phosphatase 2C [Lycopersicon esculentum]	Signal transduction
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0093F16.8 [Oryza sativa (japonica cultivar-group)]	Unknown
pr1-like protein [Oryza sativa]	Disease / defence
OSJNBa0085I10.2 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
alpha-rhamnosidase-like protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative translational inhibitor protein [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
PREDICTED P0048D08.116 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 6	
putative ATPase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative ATPase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative ATPase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative ATPase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
AAA-type ATPase-like protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative MATE efflux family protein [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
putative AAA-type ATPase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown

putative RNA Binding Protein [Oryza sativa (japonica cultivar-group)]	Transcription
putative RNA helicase [Oryza sativa (japonica cultivar-group)]	Transcription
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 8	
putative calcium-independent phospholipase A2 [Oryza sativa (japonica cultivar-group)]	Signal transduction
CD40 antigen isoform 2 precursor variant [Homo sapiens]	Signal transduction
unknown protein [Arabidopsis thaliana]	Unknown
succinate dehydrogenase subunit 3 [Triticum aestivum]	Metabolism & energy
no hits found	Unknown
unknown protein [Arabidopsis thaliana]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 9	
PDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
PDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
60S ribosomal protein L144 [Brassica rapa subsp. pekinensis]	Protein synthesis, destination and storage
60S ribosomal protein L44 [Phalaenopsis hybrid cultivar]	Protein synthesis, destination and storage
no hits found	Unknown
structural constituent of ribosome [Arabidopsis thaliana]	Protein synthesis, destination and storage
putative 60S ribosomal protein L44 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative PDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
putative Septum-promoting GTP-binding protein 1 (GTPase spg1) [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative glucose-6-phosphate/phosphate-translocase precursor [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
Putative ID 10	
thioredoxin family-like protein [Oryza sativa (japonica cultivar-group)]	Disease / defence
putative MtN21 [Oryza sativa (japonica cultivar-group)]	Unknown
TNP2-like protein [Sorghum bicolor]	Transposons
60S ribosomal protein L144 [Brassica rapa subsp. pekinensis]	Protein synthesis, destination and storage
60S ribosomal protein L44 [Phalaenopsis hybrid cultivar]	Protein synthesis, destination and storage
protein disulfide isomerase [Zea mays]	Protein synthesis, destination and storage
no hits found	Unknown
structural constituent of ribosome [Arabidopsis thaliana]	Protein synthesis, destination and storage
putative 60S ribosomal protein L44 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative glucose-6-phosphate/phosphate-translocase precursor [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
Putative ID 11	
GTPase activating protein-like [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative MtN21 [Oryza sativa (japonica cultivar-group)]	Unknown
TNP2-like protein [Sorghum bicolor]	Transposons
TBC domain, putative [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative chalcone synthase 1 [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
nodulin-like protein [Oryza sativa (japonica cultivar-group)]	Cell growth / division
Putative ID 12	
putative MtN21 [Oryza sativa (japonica cultivar-group)]	Unknown
CD40 antigen isoform 2 precursor variant [Homo sapiens]	Signal transduction
retrotransposon protein, putative, Ty1-copia sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
OSJNBa0065J03.17 [Oryza sativa (japonica cultivar-group)]	Unknown
putative chalcone synthase [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
putative chalcone synthase 1 [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
Putative ID 13	
OSJNBa0009P12.4 [Oryza sativa (japonica cultivar-group)]	Unknown
transposon protein, putative, CACTA, En/Spm sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
P0028G04.4 [Oryza sativa (japonica cultivar-group)]	Unknown
putative retrotransposable elements TNP2 [Oryza sativa (japonica cultivar-group)]	Transposons
nodulin-like protein [Oryza sativa (japonica cultivar-group)]	Cell growth / division

Putative ID 14	
thiamin biosynthetic enzyme [Glycine max]	Secondary metabolism
thiamine biosynthetic enzyme [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
putative translation initiation factor [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
ATP synthase alpha subunit	Metabolism & energy
translation initiation factor [Triticum aestivum]	Protein synthesis, destination and storage
AtpA [Elymus sibiricus]	Unknown
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
thiazole biosynthetic enzyme [Pseudotsuga menziesii var. menziesii]	Metabolism & energy
pathogen-induced defense-responsive protein 8 [Oryza sativa (indica cultivar-group)]	Disease / defence
Ribulose biphosphate carboxylase, small subunit, putative [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
putative translation initiation factor SUI1 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
pr1-like protein [Oryza sativa]	Disease / defence
putative protein translation factor Sui1 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative isocitrate lyase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative endoxyloglucan transferase [Oryza sativa (japonica cultivar-group)]	Cell structure
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative ATP/GTP-binding protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
Thiazole biosynthetic enzyme 1-1, chloroplast precursor	Metabolism & energy
Thiazole biosynthetic enzyme 1-2, chloroplast precursor	Metabolism & energy
Putative ID 15	
TNP2-like protein [Sorghum bicolor]	Transposons
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative 1-acyl-sn-glycerol-3-phosphate acyltransferase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 16	
hypothetical polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
putative retrotransposon polyprotein [Oryza sativa (japonica cultivar-group)]	Transposons
retrotransposon protein, putative, Ty1-copia sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
unknown protein [Arabidopsis thaliana]	Unknown
putative receptor-like protein kinase 4 [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative receptor-like protein kinase 4 [Oryza sativa (japonica cultivar-group)]	Signal transduction
Putative ID 17	
CD40 antigen isoform 2 precursor variant [Homo sapiens]	Signal transduction
OSJNBa0009P12.4 [Oryza sativa (japonica cultivar-group)]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
pr1-like protein [Oryza sativa]	Disease / defence
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
receptor-like protein kinase-like [Oryza sativa (japonica cultivar-group)]	Signal transduction
Protein kinase domain, putative [Oryza sativa (japonica cultivar-group)]	Signal transduction
receptor kinase-like protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
Putative ID 18	
serine/threonine kinase receptor precursor-like protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
serine/threonine kinase receptor precursor-like protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
serine/threonine kinase receptor precursor-like protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative serine/threonine kinase receptor precursor [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative beta-1,3-glucanase [Oryza sativa (japonica cultivar-group)]	Cell structure
putative serine/threonine-specific protein kinase(gil7488195l) [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative serine/threonine-specific protein kinase(gil7488195l) [Oryza sativa (japonica cultivar-group)]	Signal transduction

putative serine/threonine-specific protein kinase(gil7488195l) [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative serine/threonine kinase protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
Putative ID 19	
OSJNBa0009P12.4 [Oryza sativa (japonica cultivar-group)]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
serine/threonine kinase receptor precursor-like protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
serine/threonine kinase receptor precursor-like protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative serine/threonine-specific protein kinase(gil7488195l) [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative serine/threonine-specific protein kinase(gil7488195l) [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative serine/threonine-specific protein kinase(gil7488195l) [Oryza sativa (japonica cultivar-group)]	Signal transduction
Putative ID 20	
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
pr1-like protein [Oryza sativa]	Disease / defence
P0458H05.113 [Oryza sativa (japonica cultivar-group)]	Unknown
Kelch-like protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative serine/threonine kinase protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative serine/threonine kinase protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative serine/threonine kinase protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
Putative ID 21	
Beta-amylase [Secale cereale]	Metabolism & energy
beta-amylase [Hordeum vulgare]	Metabolism & energy
beta-amylase [Hordeum vulgare]	Metabolism & energy
beta-amylase [Hordeum vulgare subsp. spontaneum]	Metabolism & energy
beta-amylase [Hordeum vulgare]	Metabolism & energy
beta-amylase [Hordeum vulgare]	Metabolism & energy
endosperm-specific beta-amylase 1 [Hordeum vulgare subsp. vulgare]	Metabolism & energy
endosperm-specific beta-amylase 1 [Hordeum vulgare subsp. vulgare]	Metabolism & energy
tissue-ubiquitous beta-amylase 2 [Hordeum vulgare subsp. vulgare]	Metabolism & energy
tissue-ubiquitous beta-amylase 2 [Hordeum vulgare subsp. vulgare]	Metabolism & energy
BLE2 protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative serine/threonine kinase receptor precursor [Oryza sativa (japonica cultivar-group)]	Signal transduction
Putative ID 22	
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
beta-amylase [Triticum aestivum]	Metabolism & energy
Ferredoxin-NADP reductase binding protein [Zea mays]	Metabolism & energy
oxygen-evolving complex precursor [Triticum aestivum]	Metabolism & energy
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
putative phytocyanin [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative bHLH protein [Oryza sativa (japonica cultivar-group)]	Transcription
putative Oxygen-evolving enhancer protein 3-1, chloroplast precursor (OEE3) [Oryza sativa (japonica	Metabolism & energy
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.-hypothetical protein	Unknown
PREDICTED OJ1582_D10.6 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Oxygen-evolving enhancer protein 3-1, chloroplast precursor (OEE3) (16 kDa subunit of oxygen evolving system of photosystem	Metabolism & energy
Putative ID 23	
protein H2A [Triticum aestivum]	Cell structure
protein H2A [Triticum aestivum]	Cell structure
protein H2A [Triticum aestivum]	Cell structure

histone H2A [Cicer arietinum]	Cell structure
histone H2A [Triticum aestivum]	Cell structure
histone H2 [Entodinium caudatum]	Cell structure
putative histone H2B [Pinus pinaster]	Cell structure
H2A homolog [Pinus taeda]	Cell structure
isopentenyl pyrophosphate:dimethylallyl pyrophosphate isomerase [Oryza sativa]	Metabolism & energy
MGC82198 protein [Xenopus laevis]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative histone H2A [Arabidopsis thaliana]	Cell structure
histone H2A-like protein [Arabidopsis thaliana]	Cell structure
isopentenyl pyrophosphate isomerase [Zea mays]	Metabolism & energy
histone H2A [Hyacinthus orientalis]	Cell structure
histone H2A.1 [Toxoplasma gondii]	Cell structure
putative histone 2a [Gossypium hirsutum]	Cell structure
histone h2a. [norway spruce, picea excelsa [Oryza sativa (japonica cultivar-group)]]	Cell structure
DNA binding [Arabidopsis thaliana]	Cell structure
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [Oryza sativa (japonica cultivar-group)]	Unknown
putative 60S ribosomal protein L38 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative histone H2A [Oryza sativa (japonica cultivar-group)]	Cell structure
pentatricopeptide (PPR) repeat-containing protein-like protein [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative phototropic response protein family [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative translation releasing factor2 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative 60S ribosomal protein L38 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative histone H2A [Oryza sativa (japonica cultivar-group)]	Cell structure
PREDICTED: similar to Histone H2A.291.A [Rattus norvegicus]	Cell structure
Histone H2A-IV	Cell structure
Putative ID 24	
hypothetical polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
CRP1 [Zea mays]	Protein synthesis, destination and storage
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative crp1 protein [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative retrotransposon polyprotein [Oryza sativa (japonica cultivar-group)]	Transposons
Putative ID 25	
unnamed protein product [Mus musculus]	Unknown
unnamed protein product [Mus musculus]	Unknown
histone H42 [Physarum polycephalum]	Cell structure
histone H4 [Diprion pini]	Cell structure
Histone H4 homologue [Sesbania rostrata]	Cell structure
unnamed protein product [Tetraodon nigroviridis]	Unknown
unnamed protein product [Tetraodon nigroviridis]	Unknown
histone H4 [Solanum chacoense]	Cell structure
histone H4 [Hyacinthus orientalis]	Cell structure
hypothetical protein CNL05670 [Cryptococcus neoformans var. neoformans JEC21]	Unknown
histone 4 [Elaeis guineensis]	Cell structure
Chain F, Crystallographic Studies Of Nucleosome Core Particles Containing Histone 'sin' Mutants	Cell structure
DNA binding [Arabidopsis thaliana]	Cell structure
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
proteasome inhibitor-like protein [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
pentatricopeptide (PPR) repeat-containing protein-like [Oryza sativa (japonica cultivar-group)]	Unknown
putative vacuolar ATP synthase subunit H [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
RNA recognition motif (RRM)-containing protein-like [Oryza sativa (japonica cultivar-group)]	Transcription
PREDICTED: similar to Histone H2B 291B [Rattus norvegicus]	Cell structure
PREDICTED: similar to germinal histone H4 gene [Gallus gallus]	Cell structure
PREDICTED: similar to histone protein Hist2h3c1 [Gallus gallus]	Cell structure
putative 60S ribosomal protein L38 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative 60S ribosomal protein L38 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
hypothetical protein [Yarrowia lipolytica]	Unknown
PREDICTED: similar to germinal histone H4 gene [Canis familiaris]	Cell structure

PREDICTED: similar to germinal histone H4 gene [Canis familiaris]	Cell structure
PREDICTED: similar to germinal histone H4 gene [Bos taurus]	Cell structure
PREDICTED: similar to germinal histone H4 gene [Bos taurus]	Cell structure
PREDICTED: similar to germinal histone H4 gene [Bos taurus]	Cell structure
histone H4 [Candida albicans SC5314]	Cell structure
PREDICTED: similar to germinal histone H4 gene [Canis familiaris]	Cell structure
PREDICTED: similar to germinal histone H4 gene [Bos taurus]	Cell structure
PREDICTED: similar to germinal histone H4 gene [Bos taurus]	Cell structure
Histone H4	Cell structure
Putative ID 26	
cellulose synthase-like protein OsCslF4 [Oryza sativa]	Cell structure
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
Integrase core domain, putative [Oryza sativa (japonica cultivar-group)]	Transposons
B1100D10.31 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
putative S-receptor kinase KIK1 precursor [Oryza sativa (japonica cultivar-group)]	Signal transduction
CHP-rich zinc finger protein-like [Oryza sativa (japonica cultivar-group)]	Transcription
CHP-rich zinc finger protein-like [Oryza sativa (japonica cultivar-group)]	Transcription
putative cellulose synthase-like protein OsCslF1 [Oryza sativa (japonica cultivar-group)]	Cell structure
putative cellulose synthase-like protein OsCslF1 [Oryza sativa (japonica cultivar-group)]	Cell structure
Putative ID 27	
S-domain receptor-like protein kinase [Zea mays]	Signal transduction
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
Uncharacterized Cys-rich domain [Medicago truncatula]	Unknown
no hits found	Unknown
no hits found	Unknown
unknown protein [Arabidopsis thaliana]	Unknown
putative cellulose synthase-5 [Oryza sativa (japonica cultivar-group)]	Cell structure
putative cellulose synthase-like protein OsCslF1 [Oryza sativa (japonica cultivar-group)]	Cell structure
putative cellulose synthase-like protein OsCslF1 [Oryza sativa (japonica cultivar-group)]	Cell structure
putative cellulose synthase [Oryza sativa (japonica cultivar-group)]	Cell structure
putative S-receptor kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
Putative ID 28	
hypothetical polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
putative eukaryotic translation initiation factor 4G [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative cyclin D1 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
hypothetical protein [Zea mays]	Unknown
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
retrotransposon protein, putative, Ty1-copia sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
putative retrotransposon polyprotein [Oryza sativa (japonica cultivar-group)]	Transposons
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
pr1-like protein [Oryza sativa]	Disease / defence
Putative ID 29	
putative octicosapeptide/Phox/Bem1p (PB1) domain-containing protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative equilibrative nucleoside transporter ENT8 splice variant [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
Contains similarity to box helicases gblU29097 from C. elegans and to the ENBP1 gene product gblX95995 from Vicia sativa.	Cell structure
putative Rieske Fe-S precursor protein [Triticum aestivum]	Metabolism & energy
putative Rieske Fe-S precursor protein [Cynodon dactylon]	Metabolism & energy
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
OSJNBa0093F16.8 [Oryza sativa (japonica cultivar-group)]	Unknown
putative DNA-binding protein PD3, chloroplast [Oryza sativa (japonica cultivar-group)]	Cell structure
OSJNBa0015K02.12 [Oryza sativa (japonica cultivar-group)]	Unknown

OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative ubiquinone biosynthesis protein AarF [Oryza sativa (japonica cultivar-group)]	Cell structure
Putative ID 30	
putative glucose transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
Lhcb4- protein [Arabidopsis thaliana]	Cell structure
chlorophyll a/b-binding protein [Hordeum vulgare subsp. vulgare]	Metabolism & energy
Chlorophyll a/b-binding protein CP29 precursor [Zea mays]	Metabolism & energy
glucose transporter [Saccharum hybrid cultivar H65-7052]	Transporters & intracellular traffic
monosaccharide transporter 4 [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
chloroplast Ptr ToxA-binding protein [Triticum aestivum]	Cell structure
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
monosaccharide transport protein 1 [Zea mays]	Transporters & intracellular traffic
chloroplast inositol phosphatase-like protein [Triticum aestivum]	Signal transduction
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
B-gal alpha peptide [Shuttle vector pMQ61]	Metabolism & energy
light-harvesting complex IIa protein;	Metabolism & energy
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
putative monosaccharide transport protein MST1 [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
pr1-like protein [Oryza sativa]	Disease / defence
putative glucose transport protein STP1 [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
myb protein [Oryza sativa (japonica cultivar-group)]	Transcription
putative 3(2),5-bisphosphate nucleotidase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative 27k vesicle-associated membrane protein-associated protein [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
membrane lipoprotein lipid attachment site-containing protein -like [Oryza sativa (japonica cultivar-group)]	Cell structure
putative monosaccharide transporter 3 [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
Putative ID 31	
putative cellulose synthase [Triticum aestivum]	Cell structure
hypothetical protein [Oenothera elata subsp. hookeri]	Unknown
TNP2-like protein [Sorghum bicolor]	Transposons
ubiquitin precursor [Hevea brasiliensis]	Protein synthesis, destination and storage
polyubiquitin [Prunus avium]	Protein synthesis, destination and storage
cytochrome b559 beta chain; psbF [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
unknow protein [Oryza sativa (japonica cultivar-group)]	Unknown
no hits found	Unknown
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
pr1-like protein [Oryza sativa]	Disease / defence
putative ubiquitin / ribosomal protein S27a [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative short-chain dehydrogenase/reductase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative short-chain dehydrogenase/reductase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative short-chain dehydrogenase/reductase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative organic cation transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
putative organic cation transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein UM02073.1 [Ustilago maydis 521]	Unknown
Putative ID 32	
light harvesting chlorophyll a/b-binding protein [Nicotiana sylvestris]	Metabolism & energy
light harvesting chlorophyll a/b-binding protein [Nicotiana sylvestris]	Metabolism & energy
chlorophyll a/b binding protein [Panax ginseng]	Metabolism & energy
unnamed protein product [Petunia sp.]	Unknown
unnamed protein product [Petunia sp.]	Unknown
unnamed protein product [Zea mays]	Unknown

unnamed protein product [Nicotiana tabacum]	Unknown
unnamed protein product [Nicotiana tabacum]	Unknown
unnamed protein product [Nicotiana tabacum]	Unknown
type III LHCII CAB precursor protein [Hordeum vulgare]	Cell structure
LHCP [Zea mays]	Cell structure
chlorophyll a/b-binding protein [Beta vulgaris subsp. vulgaris]	Metabolism & energy
chlorophyll a/b binding protein	Metabolism & energy
chlorophyll a/b binding protein	Metabolism & energy
chlorophyll a/b binding protein	Metabolism & energy
chlorophyll a/b-binding protein WCAB precursor [Triticum aestivum]	Metabolism & energy
type 2 light-harvesting chlorophyll a/b-binding polypeptide [Pinus palustris]	Metabolism & energy
chlorophyll a/b binding protein [Oryza sativa]	Metabolism & energy
chlorophyll a/b binding protein [Rumex palustris]	Metabolism & energy
Unknown (protein for IMAGE:5194336) [Homo sapiens]	Unknown
chlorophyll a/b binding protein [Brassica oleracea]	Metabolism & energy
chlorophyll a/b binding protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
no hits found	Unknown
chlorophyll a/b-binding protein - upland cotton	Metabolism & energy
chlorophyll a/b binding protein 2	Metabolism & energy
chlorophyll a/b binding protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative chlorophyll a/b-binding protein 2 [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative chlorophyll A-B binding protein of LHCII type III, chloroplast precursor (CAB) [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
Chlorophyll a-b binding protein 1B, chloroplast precursor (LHCII type I CAB-1B) (LHCP)	Metabolism & energy
Chlorophyll a-b binding protein, chloroplast precursor (LHCII type I CAB) (LHCP)	Metabolism & energy
Chlorophyll a-b binding protein 4, chloroplast precursor (LHCII type I CAB-4) (LHCP)	Metabolism & energy
Putative ID 33	
ribosomal protein S11 [Zea mays]	Protein synthesis, destination and storage
guanine nucleotide-exchange-like protein [Arabidopsis thaliana]	Metabolism & energy
40S ribosomal protein S11 [Euphorbia esula]	Protein synthesis, destination and storage
hypothetical protein LOC_Os10g21710 [Oryza sativa (japonica cultivar-group)]	Unknown
putative cell differentiation protein [Oryza sativa]	Cell growth / division
putative NADH dehydrogenase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative secretory carrier membrane protein [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
putative leucine-rich repeat transmembrane protein kinase I [Oryza sativa (japonica cultivar-group)]	Signal transduction
OSJNBa0014K14.1 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0070C17.18 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0070C17.20 [Oryza sativa (japonica cultivar-group)]	Unknown
putative flavonol 3-O-glucosyltransferase [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
guanine nucleotide-exchange protein-like [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative guanine nucleotide-exchange protein GEP2 [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative 40S ribosomal protein S11 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
40S ribosomal protein S11	Protein synthesis, destination and storage
Putative ID 34	
Integrase core domain, putative [Oryza sativa (japonica cultivar-group)]	Transposons
exostosin family protein-like protein [Oryza sativa (japonica cultivar-group)]	Cell growth / division
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [Oryza sativa (japonica cultivar-group)]	Unknown
putative peptidyl-prolycic-trans isomerase protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative protein phosphatase 2C [Oryza sativa (japonica cultivar-group)]	Signal transduction
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 35	
ZF protein [Oryza sativa (japonica cultivar-group)]	Transcription
no hits found	Unknown
exostosin family protein-like protein [Oryza sativa (japonica cultivar-group)]	Cell growth / division
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative SCARECROW protein [Oryza sativa (japonica cultivar-group)]	Transcription
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown

CCCH-type zinc finger protein-like protein [Oryza sativa (japonica cultivar-group)]	Transcription
P0519D04.26 [Oryza sativa (japonica cultivar-group)]	Unknown
putative calmodulin-domain protein kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative calcium-dependent protein kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative calcium-dependent protein kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative calcium-dependent protein kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
floral organ regulator 2 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
PREDICTED OJ1092_A07.131 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 36	
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
hypothetical protein [Solanum demissum]	Unknown
hypothetical protein [Eucalyptus globulus subsp. globulus]	Unknown
remorin-like protein [Oryza sativa (japonica cultivar-group)]	Unknown
remorin-like protein [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative arsenite inducible RNA associated protein [Oryza sativa (japonica cultivar-group)]	Transcription
putative insulin degrading enzyme [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative insulin degrading enzyme [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
Putative ID 37	
hypothetical polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0009P12.4 [Oryza sativa (japonica cultivar-group)]	Unknown
S8e ribosomal protein [Curculio glandium]	Protein synthesis, destination and storage
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
copper ion binding / electron transporter [Arabidopsis thaliana]	Metabolism & energy
unknown protein [Arabidopsis thaliana]	Unknown
putative retrotransposon polyprotein [Oryza sativa (japonica cultivar-group)]	Transposons
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
pr1-like protein [Oryza sativa]	Disease / defence
putative insulin degrading enzyme [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative Ribosome recycling factor, chloroplast precursor [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative vacuole Membrane Protein 1 [Oryza sativa (japonica cultivar-group)]	Cell structure
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
Putative ID 38	
alpha-tubulin [Chlorella vulgaris]	Cell structure
alpha-tubulin [Cyanidioschyzon merolae]	Cell structure
alpha-tubulin 3 [Hordeum vulgare subsp. vulgare]	Cell structure
alpha-tubulin [Physarum polycephalum]	Cell structure
alpha-tubulin [Prunus dulcis]	Cell structure
alpha tubulin [Zea mays]	Cell structure
alpha-tubulin [Oryza sativa (japonica cultivar-group)]	Cell structure
alpha-tubulin 1 [Hordeum vulgare subsp. vulgare]	Cell structure
alpha-tubulin 2 [Hordeum vulgare subsp. vulgare]	Cell structure
alpha-tubulin 4 [Hordeum vulgare subsp. vulgare]	Cell structure
alpha-tubulin 5 [Hordeum vulgare subsp. vulgare]	Cell structure
alpha-tubulin [Nicotiana tabacum]	Cell structure
alpha tubulin [Zea mays]	Cell structure
alpha-tubulin [Miscanthus sinensis]	Cell structure
alpha-tubulin [Miscanthus transmorrisonensis]	Cell structure
alpha-tubulin [Miscanthus sinensis var. condensatus]	Cell structure
alpha-tubulin [Miscanthus floridulus]	Cell structure
alpha tubulin [Setaria viridis]	Cell structure
alpha tubulin [Leishmania major]	Cell structure
alpha tubulin [Hordeum vulgare]	Cell structure
tubulin [Oryza sativa]	Cell structure
alpha-tubulin [Chloromonas sp. ANT3]	Cell structure

alpha-2-tubulin [Gecarcinus lateralis]	Cell structure
alpha-tubulin [Triticum aestivum]	Cell structure
alpha tubulin [Mesembryanthemum crystallinum]	Cell structure
Tubulin, alpha 8 like [Danio rerio]	Cell structure
alpha tubulin subunit [Rosa hybrid cultivar]	Cell structure
alpha tubulin [Cryptosporidium parvum]	Cell structure
alpha-tubulin [Tintinnopsis tubulosoides]	Cell structure
alpha-tubulin [Metacylis angulata]	Cell structure
alpha-tubulin [Gossypium barbadense]	Cell structure
putative tubulin alpha-2/alpha-4 chain [Brassica napus]	Cell structure
alpha-tubulin 2 [Gossypium hirsutum]	Cell structure
alpha tubulin 2 [Bigeloviella natans]	Cell structure
alpha-tubulin [Camellia sinensis]	Cell structure
alpha tubulin 1 [Pseudotsuga menziesii var. menziesii]	Cell structure
alpha-tubulin [Ceratopteris richardii]	Cell structure
putative alpha-tubulin [Solanum betaceum]	Cell structure
alpha-tubulin [Onchocerca volvulus]	Cell structure
alpha-tubulin II [Plasmodium berghei]	Cell structure
alpha-tubulin [Trypanosoma danilewskyi]	Cell structure
alpha tubulin 1 [Trimastix marina]	Cell structure
tubulin alpha-1 chain - Plasmodium yoelii (fragment)	Cell structure
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative potassium channel regulatory factor [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
putative WD repeat domain 5 protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative copper amine oxidase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative AP2 domain containing protein [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative karyopherin-beta 3 variant [Oryza sativa (japonica cultivar-group)]	Cell growth / division
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
PREDICTED: similar to tubulin, alpha 1; alpha-tubulin [Pan troglodytes]	Cell structure
Tubulin alpha-2 chain (Alpha-2 tubulin)	Cell structure
Tubulin alpha-1 chain	Cell structure
Putative ID 39	
cytoplasmatic ribosomal protein S13 [Zea mays]	Protein synthesis, destination and storage
cytoplasmatic ribosomal protein S13 [Oryza sativa]	Protein synthesis, destination and storage
unknown [Triticum aestivum]	Unknown
adenosine-5'-phosphosulfate kinase [Zea mays]	Metabolism & energy
cytoplasmatic ribosomal protein S13 [Triticum aestivum]	Protein synthesis, destination and storage
no hits found	Unknown
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
putative GDP-fucose protein-O-fucosyltransferase 2 [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
mitogen activated protein kinase kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative mitogen activated protein kinase kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative 40S RIBOSOMAL PROTEIN S13 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative adenosine-5'-phosphosulfate kinase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative carboxyl-terminal proteinase [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative CMP-sialic acid transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
putative 40S RIBOSOMAL PROTEIN S13 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative 40S RIBOSOMAL PROTEIN S13 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
PREDICTED OJ1699_E05.22-1 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 40	
unnamed protein product [Mus musculus]	Unknown
histidine kinase [Zea mays]	Signal transduction
BDAI-1; Barley dimeric alpha-amylase inhibitor [Hordeum vulgare subsp. vulgare]	Metabolism & energy
LHCI-680, photosystem I antenna protein [Hordeum vulgare subsp. vulgare]	Metabolism & energy
succinyl-CoA synthetase alpha subunit [Sus scrofa]	Metabolism & energy
succinyl-CoA ligase alpha 1 subunit [Lycopersicon esculentum]	Metabolism & energy
At5g19850 [Arabidopsis thaliana]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein FG04054.1 [Gibberella zeae PH-1]	Unknown

pr1-like protein [Oryza sativa]	Disease / defence
OSJNBa0088H09.1 [Oryza sativa (japonica cultivar-group)]	Unknown
putative elicitor inducible beta-1,3-glucanase [Oryza sativa (japonica cultivar-group)]	Disease / defence
putative succinyl-CoA ligase alpha subunit [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
sugar transport protein-like [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
putative subtilisin-like serine protease [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
PREDICTED OJ1065_B06.19-1 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 41	
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
hypothetical protein LOC_Os10g21710 [Oryza sativa (japonica cultivar-group)]	Unknown
no hits found	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative tocopherol polyprenyltransferase [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
putative 5-formyltetrahydrofolate cycloligase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative 5-formyltetrahydrofolate cycloligase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative Nt-gh3 deduced protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 42	
finger protein pcp1-like [Oryza sativa (japonica cultivar-group)]	Transcription
putative mature anther-specific protein LAT61 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative DNA helicase [Oryza sativa (japonica cultivar-group)]	Transcription
putative sugar transporter [Oryza sativa]	Transporters & intracellular traffic
INDETERMINATE-related protein 10 [Zea mays]	Cell growth / division
INDETERMINATE-related protein 7 [Zea mays]	Cell growth / division
INDETERMINATE-related protein 9 [Zea mays]	Cell growth / division
no hits found	Unknown
unknown protein [Arabidopsis thaliana]	Unknown
nucleic acid binding / transcription factor/ zinc ion binding [Arabidopsis thaliana]	Transcription
putative acyl carrier protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
P0489A05.26 [Oryza sativa (japonica cultivar-group)]	Unknown
putative mature anther-specific protein LAT61 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative geranylgeranyl diphosphate synthase [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
transporter-related-like [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
zinc finger protein-like protein [Oryza sativa (japonica cultivar-group)]	Transcription
PREDICTED P0453G03.28 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 43	
hypothetical polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
putative sugar transporter [Oryza sativa]	Transporters & intracellular traffic
putative sorbitol transporter [Prunus cerasus]	Transporters & intracellular traffic
SUSIBA2 [Hordeum vulgare]	Transcription
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein LOC_Os10g21710 [Oryza sativa (japonica cultivar-group)]	Unknown
putative chitin-inducible gibberellin-responsive protein [Bambusa ventricosa]	Signal transduction
putative retrotransposon polyprotein [Oryza sativa (japonica cultivar-group)]	Transposons
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
pr1-like protein [Oryza sativa]	Disease / defence
putative sorbitol transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
putative sugar transport protein [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
chitin-inducible gibberellin-responsive protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
Yippe-like protein [Oryza sativa (japonica cultivar-group)]	Transcription

serine/threonine protein kinase PKPA-like protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
Putative ID 44	
hypothetical polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
AT5g47540/MNJ7_13 [Arabidopsis thaliana]	Unknown
Mo25 family protein [Brassica oleracea]	Cell structure
no hits found	Unknown
unknown protein [Arabidopsis thaliana]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative retrotransposon polyprotein [Oryza sativa (japonica cultivar-group)]	Transposons
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
photoreceptor-interacting protein-like [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative heterogeneous nuclear ribonucleoprotein A1 [Oryza sativa (japonica cultivar-group)]	Cell structure
PREDICTED OJ1060_D03.106 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 45	
NADH-ubiquinone oxidoreductase-related-like protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative amino-acid N-acetyltransferase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
NADH-ubiquinone oxidoreductase 18 kDa subunit, mitochondrial precursor-like protein [Oryza sativa (japonica	Metabolism & energy
Putative ID 46	
no hits found	Unknown
ERF1-2 (EUKARYOTIC RELEASE FACTOR 1-2); translation release factor/translation release factor, codon specific [Arabidopsis	Protein synthesis, destination and storage
protein binding [Arabidopsis thaliana]	Protein synthesis, destination and storage
putative peptide chain release factor subunit 1 (ERF1) [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
eukaryotic peptide chain release factor subunit 1-3 (eRF1-3) [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative eukaryotic peptide chain release factor subunit 1-3 (eRF1-3) [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
arm repeat-containing protein-like protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative interferon-related protein [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative formin homology(FH) domain-containing protein [Oryza sativa (japonica cultivar-group)]	Cell structure
Putative ID 47	
beta3-glucuronyltransferase [Hordeum vulgare]	Metabolism & energy
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
expressed protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
expressed protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0093F16.8 [Oryza sativa (japonica cultivar-group)]	Unknown
pr1-like protein [Oryza sativa]	Disease / defence
cytoplasmic protein of eukaryotic origin (38.3 kD)-like [Oryza sativa (japonica cultivar-group)]	Unknown
putative lateral organ boundaries (LOB) domain protein 37 [Oryza sativa (japonica cultivar-group)]	Unknown
putative pentatricopeptide (PPR) repeat-containing protein [Oryza sativa (japonica cultivar-group)]	Unknown
lipase-like protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 48	
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
expressed protein [Oryza sativa (japonica cultivar-group)]	Unknown
Gibberellin regulated protein [Medicago truncatula]	Cell growth / division
no hits found	Unknown
unknown protein [Arabidopsis thaliana]	Unknown

putative auxin-responsive GH3 protein [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative short-chain alcohol dehydrogenase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative CND41, chloroplast nucleoid DNA binding protein [Oryza sativa (japonica cultivar-group)]	Cell structure
putative ABI3-interacting protein 2; CnAIP2 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative Nt-gh3 deduced protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative MFP1 attachment factor 1 [Oryza sativa (japonica cultivar-group)]	Unknown
putative sex determination protein tasselseed 2 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative sex determination protein tasselseed 2 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative sex determination protein tasselseed 2 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
Putative ID 49	
cysteine synthase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative cysteine synthase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
protein kinase-like protein [Arabidopsis thaliana]	Signal transduction
pEP148R-like [African swine fever virus]	Unknown
Dcp1-like decapping family, putative [Oryza sativa (japonica cultivar-group)]	Transcription
no hits found	Unknown
metal ion binding [Arabidopsis thaliana]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative diaphanous homologue [Oryza sativa (japonica cultivar-group)]	Cell structure
putative cobW protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
Putative ID 50	
CD40 antigen isoform 2 precursor variant [Homo sapiens]	Signal transduction
translation initiation factor 5A precursor protein (eIF-5A) [Senecio vernalis]	Protein synthesis, destination and storage
eukaryotic translation initiation factor 5A-3 [Lycopersicon esculentum]	Protein synthesis, destination and storage
eukaryotic translation initiation factor 5A-2 [Medicago sativa]	Protein synthesis, destination and storage
unknown [Arabidopsis thaliana]	Unknown
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
translation initiation factor eIF-5A [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
translation initiation factor 5A [Aegilops tauschii]	Protein synthesis, destination and storage
eukaryotic translation initiation factor eIF5A [Rosa chinensis]	Protein synthesis, destination and storage
unknown protein [Arabidopsis thaliana]	Unknown
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
putative translation initiation factor 5A [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
translation initiation factor 5A [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
pr1-like protein [Oryza sativa]	Disease / defence
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
putative cyclin-dependent kinase CDC2C [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative zinc finger transcription factor WRKY [Oryza sativa (japonica cultivar-group)]	Transcription
translation initiation factor 5A [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 51	
NADPH-dependent HC-toxin reductase [Hordeum vulgare]	Disease / defence
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative rRNA methylase [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative DNA helicase [Oryza sativa (japonica cultivar-group)]	Cell structure
putative beta-glucuronidase precursor [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative DNA-binding protein [Oryza sativa (japonica cultivar-group)]	Transcription
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative cobW protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
pentatricopeptide (PPR) repeat-containing protein-like protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative dihydrokaempferol 4-reductase [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
putative NADPH HC toxin reductase [Oryza sativa (japonica cultivar-group)]	Disease / defence
Putative ID 52	
NADPH-dependent HC-toxin reductase [Hordeum vulgare]	Disease / defence

MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
expressed protein [Oryza sativa (japonica cultivar-group)]	Unknown
expressed protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
catalytic/ hydrolase [Arabidopsis thaliana]	Metabolism & energy
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
pr1-like protein [Oryza sativa]	Disease / defence
putative WD-repeat protein 12 [Oryza sativa (japonica cultivar-group)]	Signal transduction
glycosyl hydrolase family 17-like protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative dihydrokaempferol 4-reductase [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
putative NADPH HC toxin reductase [Oryza sativa (japonica cultivar-group)]	Disease / defence
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 53	
hypothetical polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
putative protein kinase [Sorghum bicolor]	Signal transduction
no hits found	Unknown
catalytic/ hydrolase [Arabidopsis thaliana]	Metabolism & energy
putative retrotransposon polyprotein [Oryza sativa (japonica cultivar-group)]	Transposons
putative receptor-like protein kinase (having alternative splicing) [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative histone deacetylase [Oryza sativa (japonica cultivar-group)]	Transcription
putative receptor-like protein kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative glycerophosphoryl diester phosphodiesterase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative WD repeat protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 54	
ndhH protein [Hordeum vulgare subsp. vulgare]	Unknown
reversibly glycosylated polypeptide [Triticum aestivum]	Unknown
reversibly glycosylated polypeptide [Gossypium hirsutum]	Unknown
type IIIa membrane protein cp-wap13 [Vigna unguiculata]	Cell structure
reversibly glycosylated polypeptide-1 [Arabidopsis thaliana]	Unknown
putative reversibly glycosylated polypeptide , 3'-partial [Oryza sativa (japonica cultivar-group)]	Unknown
UDP-glucose:protein transglucosylase-like protein SIUPTG1 [Lycopersicon esculentum]	Metabolism & energy
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
catalytic/ hydrolase [Arabidopsis thaliana]	Unknown
RGP2; alpha-1,4-glucan-protein synthase (UDP-forming) [Arabidopsis thaliana]	Cell structure
reversibly glycosylated polypeptide [Oryza sativa (japonica cultivar-group)]	Unknown
putative phytochelatin synthetase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative phytochelatin synthetase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative cytochrome P-450 [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative peptide transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative 6-phosphogluconolactonase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative phytochelatin synthetase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative phytochelatin synthetase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
translocase inner membrane-like protein [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative reversibly glycosylated polypeptide [Oryza sativa (japonica cultivar-group)]	Unknown
PREDICTED OSJNBb0059G13.23 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Alpha-1,4-glucan-protein synthase [UDP-forming] (UDP-glucose:protein transglucosylase) (UPTG)	Metabolism & energy
Putative ID 55	
putative STF-1 [Oryza sativa (japonica cultivar-group)]	Transcription
MADS-box protein 3 [Hordeum vulgare subsp. vulgare]	Cell growth / division
MADS-box protein 7 [Hordeum vulgare subsp. vulgare]	Cell growth / division
MADS-box protein 8 [Hordeum vulgare subsp. vulgare]	Cell growth / division
MADS box protein [Triticum aestivum]	Cell growth / division
transcription factor MADS56 [Oryza sativa (japonica cultivar-group)]	Cell growth / division

AGAMOUS LIKE6-like protein [Hordeum vulgare subsp. vulgare]	Cell growth / division
AGAMOUS LIKE9-like protein [Hordeum vulgare subsp. vulgare]	Cell growth / division
MADS-box protein HvBM5A [Hordeum vulgare subsp. vulgare]	Cell growth / division
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
retrotransposon protein, putative, Ty1-copia sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
MADS box protein VRT-2 [Hordeum vulgare subsp. vulgare]	Cell growth / division
no hits found	Unknown
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
pr1-like protein [Oryza sativa]	Disease / defence
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.-hypothetical protein	Unknown
Putative ID 56	
hypothetical polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
HAP3 [Oryza sativa (japonica cultivar-group)]	Unknown
HAP3 [Oryza sativa (japonica cultivar-group)]	Unknown
putative transcription factor [Oryza sativa (japonica cultivar-group)]	Transcription
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative agenet domain-containing protein / bromo-adjacent homology (BAH) domain-containing protein [Oryza sativa (japonica cultivar-group)]	Cell growth / division
agenet domain-containing protein / bromo-adjacent homology (BAH) domain-containing protein-like [Oryza sativa (japonica cultivar-group)]	Cell growth / division
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative cis-prenyltransferase [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
ATP synthase alpha subunit	Metabolism & energy
CCAAT-binding transcription factor-like protein [Oryza sativa (japonica cultivar-group)]	Transcription
AtpA [Elymus sibiricus]	Unknown
transcription factor [Arabidopsis thaliana]	Transcription
putative cis-prenyltransferase [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
putative CAAT-box DNA binding protein [Oryza sativa (japonica cultivar-group)]	Transcription
putative retrotransposon polyprotein [Oryza sativa (japonica cultivar-group)]	Transposons
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative DNA binding transcription factor [Oryza sativa (japonica cultivar-group)]	Transcription
pr1-like protein [Oryza sativa]	Disease / defence
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.-hypothetical protein	Unknown
Putative ID 57	
Alfin-1 [Medicago sativa]	Unknown
nucleic acid binding protein [Oryza sativa]	Cell structure
Hypothetical protein [Oryza sativa]	Unknown
Putative zinc-binding peroxisomal integral membrane protein [Oryza sativa]	Cell structure
Putative nucleic acid binding protein [Oryza sativa]	Transcription
putative 40S ribosomal protein S3 [Triticum aestivum]	Protein synthesis, destination and storage
small nuclear ribonucleoprotein polypeptide G [Hyacinthus orientalis]	Protein synthesis, destination and storage
40S ribosomal protein S3 [Chlamydomonas incerta]	Protein synthesis, destination and storage
unknown [Solanum tuberosum]	Unknown
unknown protein [Arabidopsis thaliana]	Unknown
nucleic acid binding protein [Oryza sativa (japonica cultivar-group)]	Transcription
putative ribosomal protein [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative small nuclear ribonucleoprotein polypeptide G [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative transcription factor [Oryza sativa (japonica cultivar-group)]	Transcription
putative membrane protein [Oryza sativa (japonica cultivar-group)]	Cell structure
putative nucleic acid binding protein [Oryza sativa (japonica cultivar-group)]	Transcription
putative 40S ribosomal protein [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative small nuclear ribonucleoprotein E [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative Peroxisome assembly protein 10 [Oryza sativa (japonica cultivar-group)]	Cell structure
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 58	

OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 59	
putative 60S ribosomal protein L27a [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative Avr9/Cf-9 rapidly elicited protein [Oryza sativa (japonica cultivar-group)]	Disease / defence
putative cysteine synthase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
CD40 antigen isoform 2 precursor variant [Homo sapiens]	Signal transduction
protein kinase-like protein [Arabidopsis thaliana]	Signal transduction
ribosomal protein L27a [Petunia x hybrida]	Protein synthesis, destination and storage
ribosomal protein L22 [Argopecten irradians]	Protein synthesis, destination and storage
ribosomal protein L27a-like protein [Solanum tuberosum]	Protein synthesis, destination and storage
no hits found	Unknown
ATP binding / kinase/ protein kinase/ protein serine/threonine kinase/ protein-tyrosine kinase [Arabidopsis thaliana]	Signal transduction
Ser/Thr protein kinase, putative [Plasmodium falciparum 3D7]	Signal transduction
putative serine/threonine protein kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative ribosomal protein L27a [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
Putative protein kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
pr1-like protein [Oryza sativa]	Disease / defence
hydrolase-like protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative RSH, disease resistance-related protein [Oryza sativa (japonica cultivar-group)]	Disease / defence
putative 60S ribosomal protein L27a [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative auxin-regulated dual specificity cytosolic kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 60	
cysteine synthase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative cysteine synthase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
protein kinase-like protein [Arabidopsis thaliana]	Signal transduction
putative elongation factor 1 beta [Hordeum vulgare subsp. vulgare]	Cell growth / division
extensin-like protein [Lycopersicon esculentum]	Cell structure
von Willebrand factor type A domain containing protein [Oryza sativa (japonica cultivar-group)]	Unknown
no hits found	Unknown
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
ABC transporter permease protein-like protein [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative membrane protein PTM1 [Oryza sativa (japonica cultivar-group)]	Cell structure
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative oligouridylylate binding protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
COP1-interacting protein 7 (CIP7)-like [Oryza sativa (japonica cultivar-group)]	Signal transduction
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.-hypothetical protein	Unknown
Putative ID 61	
CD40 antigen isoform 2 precursor variant [Homo sapiens]	Signal transduction
sucrose synthase [Lolium perenne]	Metabolism & energy
sucrose synthase type 2 [Triticum aestivum]	Metabolism & energy
sucrose synthase type I [Triticum aestivum]	Metabolism & energy
sucrose synthase [Hordeum vulgare subsp. vulgare]	Metabolism & energy
sucrose synthase [Hordeum vulgare]	Metabolism & energy
sucrose synthase [Hordeum vulgare subsp. vulgare]	Metabolism & energy
sucrose-synthase 1 [Tulipa gesneriana]	Metabolism & energy
sucrose synthase 2 [Hordeum vulgare subsp. vulgare]	Metabolism & energy
beta-ketoacyl-ACP synthase [Hordeum vulgare subsp. vulgare]	Metabolism & energy
OSJNBa0009P12.4 [Oryza sativa (japonica cultivar-group)]	Unknown
sus1 gene product	Metabolism & energy
ribosome-associated protein p40 [Glycine max]	Protein synthesis, destination and storage
sucrose-UDP glucosyltransferase 2 [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
sucrose synthase [Bambusa oldhamii]	Metabolism & energy
putative senescence-associated-like protein [Zea mays]	Disease / defence
sucrose synthase [Bambusa oldhamii]	Metabolism & energy
40S ribosomal protein S0, putative [Cryptococcus neoformans var. neoformans JEC21]	Protein synthesis, destination and storage

root abundant factor [Hordeum vulgare]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
RPSAB; structural constituent of ribosome [Arabidopsis thaliana]	Protein synthesis, destination and storage
Putative 40S Ribosomal protein [Oryza sativa]	Protein synthesis, destination and storage
COP1-interacting protein 7 (CIP7)-like [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative (S)-2-hydroxy-acid oxidase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative 40S ribosomal protein [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
senescence-associated putative protein-like [Oryza sativa (japonica cultivar-group)]	Disease / defence
Sucrose synthase 2 (Sucrose-UDP glucosyltransferase 2)	Metabolism & energy
Putative ID 62	
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative alanine aminotransferase [Triticum aestivum]	Metabolism & energy
putative alanine aminotransferase [Zea mays]	Metabolism & energy
ring-H2 zinc finger protein [Zea mays]	Transcription
putative leucine-rich repeat transmembrane protein kinase 2 [Oryza sativa (japonica cultivar-group)]	Signal transduction
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative alanine aminotransferase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative caltractin [Oryza sativa (japonica cultivar-group)]	Cell structure
Putative ID 63	
unknown protein [Arabidopsis thaliana]	Unknown
Putative FH protein interacting protein FIP1 [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
transcription factor R18-like protein [Oryza sativa (japonica cultivar-group)]	Transcription
AHM1(AT hook-containing MAR binding protein1)-like protein [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative D-type cyclin [Oryza sativa (japonica cultivar-group)]	Cell growth / division
pentatricopeptide repeat protein-like [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
homeobox transcription factor Hox7-like protein [Oryza sativa (japonica cultivar-group)]	Transcription
putative CDPK-related protein kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative GTP-binding protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative FH protein interacting protein FIP1 [Oryza sativa (japonica cultivar-group)]	Transcription
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
PREDICTED P0594D10.112 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 64	
protein kinase HvPKABA1 [Hordeum vulgare subsp. vulgare]	Signal transduction
3-deoxy-D-arabino heptulosonate-7-phosphate synthase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
CD40 antigen isoform 2 precursor variant [Homo sapiens]	Signal transduction
S6 ribosomal protein [Asparagus officinalis]	Protein synthesis, destination and storage
ribosomal protein S6 RPS6-1 [Zea mays]	Protein synthesis, destination and storage
serine-threonine protein kinase [Triticum aestivum]	Signal transduction
plastidic 3-deoxy-D-arabino-heptulosonate 7-phosphate synthase 2 [Petroselinum crispum]	Metabolism & energy
ribosomal protein s6 RPS6-2 [Zea mays]	Protein synthesis, destination and storage
tonoplast membrane integral protein ZmTIP3-1 [Zea mays]	Cell structure
cytochrome c oxidase subunit, putative [Arabidopsis thaliana]	Metabolism & energy
putative cytochrome c oxidase subunit [Triticum aestivum]	Metabolism & energy
ribosomal protein S6 [Brassica napus]	Protein synthesis, destination and storage
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
protein kinase I [Aegilops tauschii]	Signal transduction
52O08_33 [Brassica rapa subsp. pekinensis]	Unknown
ribosomal protein S6-like protein [Solanum tuberosum]	Protein synthesis, destination and storage
3-deoxy-D-arabino-heptulosonate 7-phosphate synthase, putative [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
altered lacZ [Binary vector pBINPLUS/ARS]	Unknown
EMB3010; structural constituent of ribosome [Arabidopsis thaliana]	Protein synthesis, destination and storage
ATP binding / ATP-dependent helicase/ helicase/ nucleic acid binding / ubiquitin-protein ligase/ zinc ion binding [Arabidopsis]	Cell structure

unnamed protein product [Oryza sativa (japonica cultivar-group)]	Unknown
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
putative beta-tonoplast intrinsic protein [Oryza sativa (japonica cultivar-group)]	Cell structure
putative 3-deoxy-D-arabino-heptulosonate 7-phosphate synthase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative UDP-glycosyltransferase 85A8 [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
pr1-like protein [Oryza sativa]	Disease / defence
putative calmodulin-binding transcription factor [Oryza sativa (japonica cultivar-group)]	Transcription
ribosomal protein s6 RPS6-2 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
abscisic acid-inducible protein kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 8 (RNA helicase) [Oryza sativa (japonica cultivar-group)]	Transcription
hydrolase-like protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative anther ethylene-upregulated protein ER1 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
PREDICTED P0594D10.136 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 65	
UMP/CMP kinase b [Oryza sativa]	Metabolism & energy
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative UMP/CMP kinase a [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
pr1-like protein [Oryza sativa]	Disease / defence
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
UMP/CMP kinase a [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
Putative ID 66	
histone acetyltransferase protein HAC108 [Zea mays]	Transcription
ribosomal protein-like [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative receptor-like protein kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative histone acetyltransferase [Oryza sativa (japonica cultivar-group)]	Transcription
putative 4-alpha-glucanotransferase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
OSJNBa0093F16.8 [Oryza sativa (japonica cultivar-group)]	Unknown
acinusL protein-like [Oryza sativa (japonica cultivar-group)]	Cell structure
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
PREDICTED OJ1339_F05.121-1 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 67	
40S ribosomal protein S9 [Catharanthus roseus]	Protein synthesis, destination and storage
typical P-type R2R3 Myb protein [Oryza sativa]	Transcription
40S ribosomal protein S9 [Triticum aestivum]	Protein synthesis, destination and storage
putative myb protein [Oryza sativa (japonica cultivar-group)]	Transcription
unknown [Solanum tuberosum]	Unknown
ribosomal protein S4 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
ribosomal protein S4 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
structural constituent of ribosome [Arabidopsis thaliana]	Protein synthesis, destination and storage
structural constituent of ribosome [Arabidopsis thaliana]	Protein synthesis, destination and storage
P0006C01.35 [Oryza sativa (japonica cultivar-group)]	Unknown
putative Sur2p: syringomycin response protein [Oryza sativa (japonica cultivar-group)]	Disease / defence
origin recognition complex subunit 6-like protein [Oryza sativa (japonica cultivar-group)]	Transcription
myb-related protein-like [Oryza sativa (japonica cultivar-group)]	Transcription
putative GTP-binding protein DRG [Oryza sativa (japonica cultivar-group)]	Signal transduction
PREDICTED P0506F02.119 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 68	
aleurone ribonuclease [Hordeum vulgare]	Transcription
CSLA7 [Oryza sativa]	Metabolism & energy
Integrase core domain, putative [Oryza sativa (japonica cultivar-group)]	Transposons

retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
P0006C01.35 [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
zinc finger protein-like [Oryza sativa (japonica cultivar-group)]	Transcription
OSJNBa0088H09.1 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
CSLA7 [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
Putative ID 69	
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative 29 kDa ribonucleoprotein A, chloroplast precursor [Oryza sativa (japonica cultivar-group)]	Transcription
putative glucanase [Oryza sativa (japonica cultivar-group)]	Disease / defence
putative ribonucleoprotein [Oryza sativa]	Transcription
OSJNBa0088H09.1 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative transmembrane protein [Oryza sativa (japonica cultivar-group)]	Cell structure
putative ankyrin-kinase [Oryza sativa (japonica cultivar-group)]	Cell structure
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
PREDICTED P0519E12.127 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
PREDICTED P0519E12.126 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 70	
MybHv33 [Hordeum vulgare subsp. vulgare]	Transcription
RAB11J [Lotus corniculatus var. japonicus]	Unknown
cytochrome P450 [Triticum aestivum]	Metabolism & energy
cytochrome P450 CYP709C1 [Triticum aestivum]	Metabolism & energy
no hits found	Unknown
unknown protein [Arabidopsis thaliana]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
DEAD box protein-like [Oryza sativa (japonica cultivar-group)]	Cell structure
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative myb/SANT domain protein [Oryza sativa (japonica cultivar-group)]	Transcription
putative Rab GTP-binding protein Rab11a [Oryza sativa (japonica cultivar-group)]	Signal transduction
ripening-related protein-like [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative pectinacetyltransferase precursor [Oryza sativa (japonica cultivar-group)]	Cell structure
Myb-like DNA-binding protein-like [Oryza sativa (japonica cultivar-group)]	Transcription
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
PREDICTED P0455H11.118-1 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
myb/SANT domain protein -like [Oryza sativa (japonica cultivar-group)]	Transcription
Putative ID 71	
plasma membrane protein 3 [Leymus chinensis]	Cell structure
putative kinetochore protein [Hordeum vulgare subsp. vulgare]	Cell structure
pyruvate dehydrogenase kinase [Oryza sativa]	Metabolism & energy
cytochrome P450 [Triticum aestivum]	Metabolism & energy
drought-induced hydrophobic protein [Oryza sativa (japonica cultivar-group)]	Disease / defence
cytochrome P450 CYP709C1 [Triticum aestivum]	Metabolism & energy
putative drought induced protein [Oryza sativa (japonica cultivar-group)]	Disease / defence
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
low temperature and salt responsive protein [Pennisetum glaucum]	Disease / defence
no hits found	Unknown
hypothetical protein [Oryza sativa]	Unknown
selenium-binding protein-like [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086B14.21 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [Oryza sativa (japonica cultivar-group)]	Unknown
putative low temperature and salt responsive protein [Oryza sativa (japonica cultivar-group)]	Disease / defence

putative centromere/microtubule binding protein [Oryza sativa (japonica cultivar-group)]	Cell structure
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
RNaseP-associated protein-like [Oryza sativa (japonica cultivar-group)]	Transcription
putative serine/threonine kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
pyruvate dehydrogenase kinase 1 [Oryza sativa (japonica cultivar-group)]	Signal transduction
PREDICTED OJ1136_D11.123 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 72	
peroxiredoxin [Hordeum vulgare subsp. vulgare]	Metabolism & energy
pyruvate dehydrogenase kinase isoform 2; PDK2 [Zea mays]	Signal transduction
putative peroxidase [Oryza sativa]	Disease / defence
1-Cys peroxiredoxin [Triticum turgidum subsp. durum]	Metabolism & energy
pyruvate dehydrogenase kinase [Oryza sativa]	Metabolism & energy
1-Cys-peroxiredoxine [Triticum aestivum]	Metabolism & energy
SNARE 13 [Oryza sativa (japonica cultivar-group)]	Disease / defence
no hits found	Unknown
putative peroxidase [Oryza sativa]	Disease / defence
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
pyruvate dehydrogenase kinase 1 [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
vesicle soluble NSF attachment protein receptor-like protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
kinesin-like protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative peroxidase [Oryza sativa (japonica cultivar-group)]	Disease / defence
putative peroxidase [Oryza sativa (japonica cultivar-group)]	Disease / defence
TPA: class III peroxidase 44 precursor [Oryza sativa (japonica cultivar-group)]	Disease / defence
Putative ID 73	
pyrrolidone carboxyl peptidase-like protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative heat shock factor [Oryza sativa (japonica cultivar-group)]	Disease / defence
putative peroxidase [Oryza sativa]	Disease / defence
heat shock factor RHSF12 [Oryza sativa (japonica cultivar-group)]	Disease / defence
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
no hits found	Unknown
unknown protein [Arabidopsis thaliana]	Unknown
EMB1624; translation initiation factor [Arabidopsis thaliana]	Protein synthesis, destination and storage
putative peroxidase [Oryza sativa]	Disease / defence
putative peroxidase [Oryza sativa]	Disease / defence
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
putative heat stress transcription factor [Oryza sativa (japonica cultivar-group)]	Disease / defence
pr1-like protein [Oryza sativa]	Disease / defence
putative peroxidase [Oryza sativa (japonica cultivar-group)]	Disease / defence
putative peroxidase [Oryza sativa (japonica cultivar-group)]	Disease / defence
pyrrolidone carboxyl peptidase-like protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative eukaryotic translation initiation factor 6 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative thymidylate kinase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative protein arginine N-methyltransferase 3 [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative xylose kinase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
PREDICTED P0524G08.101 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
TPA: class III peroxidase 44 precursor [Oryza sativa (japonica cultivar-group)]	Disease / defence
TPA: class III peroxidase 70 precursor [Oryza sativa (japonica cultivar-group)]	Disease / defence
Putative ID 74	
10 kDa chaperonin [Oryza sativa]	Protein synthesis, destination and storage
putative transport protein particle component [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
expressed protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative calcium/calmodulin-dependent protein kinase CaMK [Oryza sativa (japonica cultivar-group)]	Signal transduction
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
10 kDa chaperonin [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage

lipase-like protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative RUSH-1alpha [Oryza sativa (japonica cultivar-group)]	Transcription
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 75	
putative esterase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
Unknown (protein for MGC:33597) [Homo sapiens]	Unknown
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
no hits found	Unknown
putative esterase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative esterase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative ATP synthase mitochondrial F1 complex assembly factor2 [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative bZIP family transcription factor [Oryza sativa (japonica cultivar-group)]	Transcription
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative adapter protein ATH-55 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 76	
Hypothetical protein C09H10.3 [Caenorhabditis elegans]	Unknown
hypothetical protein [Arabidopsis thaliana]	Unknown
NADH dehydrogenase [Arabidopsis thaliana]	Metabolism & energy
SJCHGC01665 protein [Schistosoma japonicum]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
inositol or phosphatidylinositol kinase/ phosphotransferase, alcohol group as acceptor [Arabidopsis thaliana]	Signal transduction
FMN binding / NADH dehydrogenase (ubiquinone)/ iron ion binding [Arabidopsis thaliana]	Metabolism & energy
putative NADH dehydrogenase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative protein phosphatase 2C (PP2C) [Oryza sativa (japonica cultivar-group)]	Signal transduction
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
Rice chromosome 4 contigs bp 20,866,047 to 25,816,839	Functional group
Putative ID 1	
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
TNP2-like protein [Sorghum bicolor]	Transposons
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
Putative ID 2	
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0042L16.3 [Oryza sativa (japonica cultivar-group)]	Unknown
COP9 [Oryza sativa (japonica cultivar-group)]	Signal transduction
OSJNBa0042L16.4 [Oryza sativa (japonica cultivar-group)]	Unknown
chloroplast nucleoid DNA-binding protein -like protein [Oryza sativa (japonica cultivar-group)]	Transcription
putative retrotransposon polyprotein [Oryza sativa (japonica cultivar-group)]	Transposons
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 3	
OSJNBa0042L16.7 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0042L16.12 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0042L16.13 [Oryza sativa (japonica cultivar-group)]	Unknown
nicotinate phosphoribosyltransferase-like protein [Medicago truncatula]	Metabolism & energy
OSJNBa0042L16.14 [Oryza sativa (japonica cultivar-group)]	Unknown
putative receptor protein kinase PERK1 [Oryza sativa (japonica cultivar-group)]	Signal transduction
40S ribosomal protein S10 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
40S ribosomal protein S30-like [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative ribosomal protein S10 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
Putative ID 4	
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
OSJNBa0084A10.11 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0084A10.13 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0084A10.15 [Oryza sativa (japonica cultivar-group)]	Unknown

OSJNBa0084A10.6 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0084A10.7 [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 5	
unknown protein [Arabidopsis thaliana]	Unknown
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
protein disulfide isomerase [Zea mays]	Protein synthesis, destination and storage
protein disulfide isomerase [Zea mays]	Protein synthesis, destination and storage
hypothetical protein At4g06676 [Arabidopsis thaliana]	Unknown
P0028G04.4 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0093F16.8 [Oryza sativa (japonica cultivar-group)]	Unknown
putative alkaline/neutral invertase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
OSJNBa0084A10.16 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0088K19.7 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 6	
unknown protein [Arabidopsis thaliana]	Unknown
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
protein disulfide isomerase [Zea mays]	Protein synthesis, destination and storage
protein disulfide isomerase [Zea mays]	Protein synthesis, destination and storage
hypothetical protein At4g06676 [Arabidopsis thaliana]	Unknown
P0028G04.4 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0093F16.8 [Oryza sativa (japonica cultivar-group)]	Unknown
putative alkaline/neutral invertase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
OSJNBa0084A10.16 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0088K19.7 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 7	
ATP-NAD kinase, putative [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0086G13.14 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0006B20.1 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0006B20.3 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0006B20.4 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0006B20.5 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0006B20.8 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0006B20.11 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0006B20.13 [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 8	
OJ000114_01.2 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ000114_01.6 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ000114_01.8 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0006B20.13 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0006B20.18 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0006B20.19 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0006B20.20 [Oryza sativa (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
Putative ID 9	
OJ000114_01.6 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ000114_01.8 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ000114_01.10 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ000114_01.11 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ000114_01.12 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ000114_01.12 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ000114_01.13 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ000114_01.14 [Oryza sativa (japonica cultivar-group)]	Unknown
chloroplast protein translocon component Tic40 precursor [Pisum sativum]	Transporters & intracellular traffic
putative gag-pol polyprotein [Oryza sativa (japonica cultivar-group)]	Transposons
retrotransposon protein, putative, Tyl1-copia sub-class [Oryza sativa (japonica cultivar-group)]	Transposons
no hits found	Unknown
no hits found	Unknown
OSJNBa0079F16.4 [Oryza sativa (japonica cultivar-group)]	Unknown
putative DDT domain-containing protein [Oryza sativa (japonica cultivar-group)]	Transcription
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown

Putative ID 10	
OSJNBa0064D20.9 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0064D20.11 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0064D20.12 [Oryza sativa (japonica cultivar-group)]	Unknown
POT family, putative [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
P0076O17.10 [Oryza sativa (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
Putative ID 11	
ferric reductase [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
putative calmodulin-binding protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
P0704D04.3 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative calmodulin-binding protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
pr1-like protein [Oryza sativa]	Disease / defence
P0041A24.3 [Oryza sativa (japonica cultivar-group)]	Unknown
P0041A24.6 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0058G03.4 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0058G03.7 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027P08.6 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 12	
putative 3-oxoacyl-[acyl-carrier-protein] synthase I, chloroplast precursor [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
LacOPZ-alpha peptide from pUC9 [Cryptosporidium hominis]	Unknown
P0592G05.3 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative 6b-interacting protein 1 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027P08.9 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027P08.10 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027P08.11 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027P08.12 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027P08.13 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027P08.15 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027P08.19 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027P08.20 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027P08.20 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027P08.21 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [Oryza sativa (japonica cultivar-group)]	Unknown
3-oxoacyl-[acyl-carrier-protein] synthase I, chloroplast precursor (Beta-ketoacyl-ACP synthase I) (KAS I)	Metabolism & energy
Putative ID 13	
zeaxanthin epoxidase [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
mitochondrial phosphate transporter [Lotus corniculatus var. japonicus]	Transporters & intracellular traffic
hypothetical protein [Arabidopsis thaliana]	Unknown
lipoygenase-like protein [Hordeum vulgare subsp. vulgare]	Metabolism & energy
glutamate decarboxylase isozyme I [Nicotiana tabacum]	Metabolism & energy
glutamate decarboxylase isozyme I [Nicotiana tabacum]	Metabolism & energy
putative glutamate carboxylase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
At5g14040/MUA22_4 [Arabidopsis thaliana]	Unknown
At5g17330/MKP11_18 [Arabidopsis thaliana]	Unknown
putative glutamate decarboxylase 1 [Triticum aestivum]	Metabolism & energy
zeaxanthin epoxidase [Triticum aestivum]	Unknown
GAD1 [Hordeum vulgare]	Metabolism & energy
glutamate decarboxylase [Oryza sativa (japonica cultivar-group)]	Unknown
glutamate decarboxylase 1 [Brassica juncea]	Unknown
putative glutamate decarboxylase isozyme [Oryza sativa (japonica cultivar-group)]	Unknown
putative glutamate decarboxylase isozyme [Oryza sativa (japonica cultivar-group)]	Unknown
phosphate transport protein, mitochondrial - maize	Transporters & intracellular traffic
OSJNBa0064H22.2 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0064H22.3 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0064H22.4 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0064H22.5 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0064H22.6 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0064H22.8 [Oryza sativa (japonica cultivar-group)]	Unknown

OSJNBa0064H22.9 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0064H22.10 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0064H22.11 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0064H22.12 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0064H22.14 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0064H22.16 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0064H22.17 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
mitochondrial phosphate transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
mitochondrial phosphate transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
Putative lipoxygenase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative glutamate decarboxylase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
Glutamate decarboxylase (GAD)	Metabolism & energy
Putative ID 14	
unnamed protein product [Mus musculus]	Unknown
putative nucleic acid binding protein [Oryza sativa (japonica cultivar-group)]	Cell structure
put. histone H3 [Volvox carteri f. nagariensis]	Cell structure
unnamed protein product [Medicago sativa]	Unknown
Hypothetical protein B0035.10 [Caenorhabditis elegans]	Unknown
RNA Binding Protein 47 [Nicotiana plumbaginifolia]	Transcription
nucleic acid binding protein [Nicotiana tabacum]	Cell structure
Hypothetical protein CBG05841 [Caenorhabditis briggsae]	Unknown
unnamed protein product [Tetraodon nigroviridis]	Unknown
unnamed protein product [Tetraodon nigroviridis]	Unknown
unnamed protein product [Tetraodon nigroviridis]	Unknown
histone H3 (H3-1.1)	Cell structure
histone H3	Cell structure
histone H3	Cell structure
histone H3	Cell structure
disease-resistant-related protein [Oryza sativa]	Disease / defence
histone H3.2 protein [Oryza sativa (japonica cultivar-group)]	Cell structure
histone H3 - maize [Oryza sativa (japonica cultivar-group)]	Cell structure
histone H3 - garden pea (tentative sequence)	Cell structure
histone H3.2, putative [Arabidopsis thaliana]	Cell structure
histone (his-73) [Caenorhabditis elegans]	Cell structure
histone H3 [Oryza sativa (japonica cultivar-group)]	Cell structure
PREDICTED: similar to histone protein Hist2h3c1 [Rattus norvegicus]	Cell structure
PREDICTED: similar to GLP_39_88222_87572 [Gallus gallus]	Unknown
PREDICTED: similar to histone protein Hist2h3c1 [Gallus gallus]	Cell structure
OSJNBa0064H22.20 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0064H22.21 [Oryza sativa (japonica cultivar-group)]	Unknown
putative PrMC3 [Oryza sativa (japonica cultivar-group)]	Unknown
putative nucleic acid binding protein [Oryza sativa (japonica cultivar-group)]	Cell structure
OSJNBa0086B14.1 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086B14.2 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086B14.3 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086B14.4 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086B14.5 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086B14.6 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086B14.7 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086B14.9 [Oryza sativa (japonica cultivar-group)]	Unknown
PREDICTED: similar to H3 histone, family 3B [Mus musculus]	Cell structure
PREDICTED: similar to CG31613-PA [Canis familiaris]	Unknown
PREDICTED: similar to histone protein Hist2h3c1 [Canis familiaris]	Cell structure
PREDICTED: similar to histone 1, H3g [Canis familiaris]	Cell structure
PREDICTED: similar to HIST1H3I protein [Rattus norvegicus]	Cell structure
Histone H3	Cell structure
Putative ID 15	
cryptochrome 1b [Oryza sativa (japonica cultivar-group)]	Signal transduction
ribulose 1,5-bisphosphate carboxylase/oxygenase large subunit [Trigonobalanus verticillata]	Metabolism & energy
ribulose 1,5-bisphosphate carboxylase [Lindenbergia sp. Thulin 8079]	Metabolism & energy
ribulose-bisphosphate carboxylase large subunit [Isolepis cernua]	Metabolism & energy
ribulosebiphosphate carboxylase [Bromus inermis]	Metabolism & energy
ribulosebiphosphate carboxylase [Bromus inermis]	Metabolism & energy
ribulose bisphosphate carboxylase oxygenase, large subunit [Dichelostemma volubile]	Metabolism & energy
OSJNBa0027G07.1 [Oryza sativa (japonica cultivar-group)]	Unknown
ribulose bisphosphate carboxylase large chain [Bromus erectus]	Metabolism & energy

ribulose 1,5-bisphosphate carboxylase	Metabolism & energy
ribulose 1,5-bisphosphate carboxylase	Metabolism & energy
ribulose 1,5-bisphosphate carboxylase	Metabolism & energy
ribulose 1,5-bisphosphate carboxylase large subunit [Worsleya rayneri]	Metabolism & energy
ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit [Hordeum chilense]	Metabolism & energy
ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit [Hordeum chilense]	Metabolism & energy
ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit [Hordeum vulgare subsp. vulgare]	Metabolism & energy
ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit [Hordeum roshevitzii]	Metabolism & energy
ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit [Olinia ventosa]	Metabolism & energy
putative gag-pol protein [Oryza sativa (japonica cultivar-group)]	Transposons
ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit [Triticum aestivum]	Metabolism & energy
ribulose 1,5-bisphosphate carboxylase/oxygenase; rbcL [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
cryptochrome 2 [Sorghum bicolor]	Signal transduction
ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit [Taeniatherum caput-medusae]	Metabolism & energy
protein phosphatase 2C, putative / PP2C, putative [Arabidopsis thaliana]	Signal transduction
Putative ubiquitin-specific protease 3 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
cryptochrome 1a [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative ubiquitin-specific protease 3 (UBP3) [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
pr1-like protein [Oryza sativa]	Disease / defence
OSJNBa0086B14.19 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086B14.21 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086B14.22 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086B14.23 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086B14.26 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
Putative ID 16	
OSJNBa0093P23.5 [Oryza sativa (japonica cultivar-group)]	Unknown
no hits found	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086B14.27 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086B14.28 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027G07.4 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027G07.5 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027G07.8 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027G07.27 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086O06.24 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
Putative ID 17	
OSJNBa0093P23.5 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027G07.4 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0027G07.27 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086O06.24 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
Putative ID 18	
putative dehydration stress-induced protein [Oryza sativa (japonica cultivar-group)]	Disease / defence
unnamed protein product [Secale cereale]	Unknown
large ribosomal protein 23 [Hordeum vulgare subsp. vulgare]	Protein synthesis, destination and storage
20 kDa protein of CP24 precursor protein [Spinacia oleracea]	Cell structure
SERK2 protein [Zea mays]	Signal transduction
somatic embryogenesis receptor-like kinase 1 [Zea mays]	Cell growth / division

somatic embryogenesis receptor-like kinase 2 [Zea mays]	Cell growth / division
chlorophyll a/b-binding protein CP24 precursor [Vigna radiata]	Metabolism & energy
benzothiadiazole-induced somatic embryogenesis receptor kinase 1 [Oryza sativa (indica cultivar-group)]	Cell growth / division
Lhcb6 protein [Brassica rapa subsp. pekinensis]	Metabolism & energy
no hits found	Unknown
no hits found	Unknown
chlorophyll a/b-binding protein Cab10A - tomato	Metabolism & energy
chlorophyll a/b-binding protein Cab10B - tomato	Metabolism & energy
RNA polymerase beta chain [Triticum aestivum]	Transcription
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative elicitor-inducible protein EIG-J7 [Oryza sativa (japonica cultivar-group)]	Disease / defence
OSJNBa0006M15.14 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0006M15.16 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0006M15.17 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0006M15.20 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0036B21.5 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0036B21.6 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0036B21.7 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0036B21.10 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0036B21.13 [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
Chloroplast 50S ribosomal protein L2	Protein synthesis, destination and storage
Chloroplast 50S ribosomal protein L2	Protein synthesis, destination and storage
Putative ID 19	
unknown protein [Arabidopsis thaliana]	Unknown
putative pectinesterase [Oryza sativa (japonica cultivar-group)]	Cell structure
chloroplast GAPDH (233aa) [Sinapis alba]	Metabolism & energy
unnamed protein product [Pisum sativum]	Unknown
glyceraldehyde-3-phosphate dehydrogenase [Zea mays]	Metabolism & energy
glyceraldehyde-3-phosphate dehydrogenase [Pisum sativum]	Metabolism & energy
pectin methylesterase-like protein [Zea mays]	Cell structure
glyceraldehyde-3-phosphate dehydrogenase [Capsicum annuum]	Metabolism & energy
OSJNBa0072F16.4 [Oryza sativa (japonica cultivar-group)]	Unknown
ribulose-1,5-bisphosphate carboxylase small subunit [Hordeum vulgare]	Metabolism & energy
glyceraldehyde 3-phosphate dehydrogenase A subunit [Arabidopsis thaliana]	Metabolism & energy
glyceraldehyde 3-phosphate dehydrogenase B subunit [Arabidopsis thaliana]	Metabolism & energy
putative calcium-binding protein, calreticulin [Arabidopsis thaliana]	Signal transduction
no hits found	Unknown
no hits found	Unknown
glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating) (EC 1.2.1.13) A, chloroplast - common tobacco (fragment)	Metabolism & energy
glyceraldehyde-3-phosphate dehydrogenase [Thermosynechococcus elongatus BP-1]	Metabolism & energy
P0592G05.3 [Oryza sativa (japonica cultivar-group)]	Unknown
putative non-cell-autonomous protein pathway2; plasmodesmal receptor [Oryza sativa (japonica cultivar-group)]	Signal transduction
MDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
OSJNBa0036B21.17 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0036B21.18 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0036B21.19 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0036B21.20 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0036B21.24 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0036B21.25 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0036B21.27 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0072F16.5 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0072F16.7 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0079B02.13 [Oryza sativa (japonica cultivar-group)]	Unknown
EST C74302(E30840) corresponds to a region of the predicted gene.--similar to glyceraldehyde-3-phosphate	Metabolism & energy
Glyceraldehyde-3-phosphate dehydrogenase A, chloroplast precursor (NADP-dependent glyceraldehydephosphate dehydrogenase	Metabolism & energy
Putative ID 20	
putative ORFX [Oryza sativa (japonica cultivar-group)]	Unknown
GRAB2 protein [Triticum sp.]	Cell growth / division
hypothetical protein [Hordeum vulgare subsp. vulgare]	Unknown
B1358B12.4 [Oryza sativa (japonica cultivar-group)]	Unknown
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division

hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
P0592G05.3 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0072F16.10 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0072F16.12 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0072F16.13 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0072F16.14 [Oryza sativa (japonica cultivar-group)]	Unknown
MYB27 protein [Oryza sativa (japonica cultivar-group)]	Transcription
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
Putative ID 21	
betaine aldehyde dehydrogenase [Hordeum vulgare]	Disease / defence
betaine aldehyde dehydrogenase [Hordeum vulgare subsp. vulgare]	Disease / defence
putative receptor kinase [Oryza sativa (japonica cultivar-group)]	Signal transduction
integral membrane-like protein [Oryza sativa (japonica cultivar-group)]	Cell structure
putative prohibitin [Oryza sativa (japonica cultivar-group)]	Unknown
14-3-3 protein homologue [Hordeum vulgare subsp. vulgare]	Signal transduction
Hv14-3-3b [Hordeum vulgare subsp. vulgare]	Signal transduction
14-3-3 protein [Hordeum vulgare]	Signal transduction
GF14-6 [Zea mays]	Unknown
prohibitin [Zea mays]	Unknown
prohibitin [Zea mays]	Unknown
14-3-3 protein [Triticum aestivum]	Signal transduction
Integrase core domain, putative [Oryza sativa (japonica cultivar-group)]	Transposons
no hits found	Unknown
putative 14-3-3 protein [Oryza sativa]	Signal transduction
OSJNBa0072F16.19 [Oryza sativa (japonica cultivar-group)]	Unknown
B1358B12.15 [Oryza sativa (japonica cultivar-group)]	Unknown
B1358B12.17 [Oryza sativa (japonica cultivar-group)]	Unknown
B1358B12.18 [Oryza sativa (japonica cultivar-group)]	Unknown
B1358B12.19 [Oryza sativa (japonica cultivar-group)]	Unknown
B1358B12.20 [Oryza sativa (japonica cultivar-group)]	Unknown
B1358B12.21 [Oryza sativa (japonica cultivar-group)]	Unknown
B1358B12.23 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 22	
no hits found	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0060P14.10 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0060P14.12 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0060P14.16 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0060P14.17 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNB0048E02.12 [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 23	
putative protein [Arabidopsis thaliana]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0048E02.13 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0048E02.14 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0016O02.1 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0016O02.3 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0016O02.6 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0016O02.8 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0016O02.9 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0016O02.10 [Oryza sativa (japonica cultivar-group)]	Unknown
Porphyrionas-type peptidyl-arginine deiminase [Pseudomonas syringae pv. syringae B728a]	Metabolism & energy
Putative ID 24	
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0016O02.14 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0016O02.23 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0016O02.23 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0016O02.24 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0016O02.25 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 25	

putative amino acid transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
RAB-like small G-protein [Hordeum vulgare subsp. vulgare]	Signal transduction
guanine nucleotide regulatory protein [Glycine max]	Metabolism & energy
DNA-binding protein WRKY1 [Avena sativa]	Transcription
putative amino acid transport protein AAP2 [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
small GTP-binding protein [Triticum aestivum]	Signal transduction
P0704D04.3 [Oryza sativa (japonica cultivar-group)]	Unknown
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative GTP-binding protein yptm3 [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative small nuclear ribonucleoprotein D1 polypeptide 16kDa; snRNP core protein D1; Sm-D autoantigen [Oryza sativa]	Cell structure
pr1-like protein [Oryza sativa]	Disease / defence
OSJNBa0089K21.2 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0089K21.3 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0089K21.5 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0089K21.6 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0089K21.11 [Oryza sativa (japonica cultivar-group)]	Unknown
Ras-related protein Rab-2-B	Signal transduction
Putative ID 26	
protein H2B153 [Triticum aestivum]	Cell structure
maturase [Hordeum vulgare subsp. spontaneum]	Transcription
ndhH protein [Hordeum vulgare subsp. vulgare]	Metabolism & energy
rps 19 [Secale cereale]	Unknown
16S ribosomal protein [Sinapis alba]	Protein synthesis, destination and storage
unnamed protein product [Secale cereale]	Unknown
unnamed protein product [Oryza sativa (japonica cultivar-group)]	Unknown
ribosomal protein rps16 [Hordeum vulgare]	Protein synthesis, destination and storage
large ribosomal protein 23 [Hordeum vulgare subsp. vulgare]	Protein synthesis, destination and storage
rpl 2 [Hordeum vulgare subsp. vulgare]	Unknown
NADH dehydrogenase 27kD subunit [Nicotiana tabacum]	Metabolism & energy
ribosomal protein L2 [Nicotiana tabacum]	Protein synthesis, destination and storage
ycf1 protein [Spinacia oleracea]	Metabolism & energy
unnamed protein product [Hordeum vulgare]	Unknown
Rps16 protein [Clivia nobilis]	Unknown
Rps16 protein [Clivia gardenii]	Unknown
NADH dehydrogenase 49kDa subunit [Nymphaea alba]	Metabolism & energy
ubiquitin	Protein synthesis, destination and storage
unknown [Nicotiana tabacum]	Unknown
S222 [Triticum aestivum]	Unknown
NdhC [Hordeum vulgare]	Unknown
ORF58 [Pinus koraiensis]	Unknown
ORF45b [Pinus koraiensis]	Unknown
Na ⁺ /H ⁺ antiporter NHX3 [Zea mays]	Transporters & intracellular traffic
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative NADH dehydrogenase 49kDa protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
photosystem II D2 protein [Podocarpus chinensis]	Metabolism & energy
hypothetical protein [Zea mays]	Unknown
hypothetical protein [Zea mays]	Unknown
photosystem II protein K; psbK [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative 60S ribosomal protein L18a [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
hypothetical protein [Solanum demissum]	Unknown
putative DnaJ protein [Oryza sativa (japonica cultivar-group)]	Cell structure
unknow protein [Oryza sativa (japonica cultivar-group)]	Unknown
ribosomal protein L6 [Triticum aestivum]	Protein synthesis, destination and storage
maturase [Triticum aestivum]	Transcription
RNA polymerase beta" chain [Triticum aestivum]	Transcription
NADH dehydrogenase subunit 3 [Triticum aestivum]	Metabolism & energy
ribosomal protein L22 [Triticum aestivum]	Protein synthesis, destination and storage
hypothetical protein CE2794 [Corynebacterium efficiens YS-314]	Unknown
hypothetical protein CTC00549 [Clostridium tetani E88]	Unknown
putative rice chloroplast ORF159 [Oryza sativa (japonica cultivar-group)]	Unknown
putative GPI-anchored protein [Oryza sativa (japonica cultivar-group)]	Cell structure
putative 60S ribosomal protein L6 (RPL6C) [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
OSJNBa0089K21.15 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0089K21.15 [Oryza sativa (japonica cultivar-group)]	Unknown

OSJNBb0022F23.4 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0022F23.7 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0086O06.24 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
ORF137 [Oryza sativa (japonica cultivar-group)]	Unknown
ORF137 [Oryza sativa (japonica cultivar-group)]	Unknown
ORF137 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein OrniCp112 [Oryza nivara]	Unknown
hypothetical protein OrniCp116 [Oryza nivara]	Unknown
hypothetical protein Rick02001128 [Rickettsia rickettsii]	Unknown
hypothetical protein Avar03000173 [Anabaena variabilis ATCC 29413]	Unknown
conserved hypothetical protein [Listeria monocytogenes str. 4b H7858]	Unknown
hypothetical protein Tery02002591 [Trichodesmium erythraeum IMS101]	Unknown
hypothetical protein RakaH01001082 [Rickettsia akari str. Hartford]	Unknown
hypothetical protein Lgas02000342 [Lactobacillus gasserii]	Unknown
Photosystem Q(B) protein (32 kDa thylakoid membrane protein) (Photosystem II protein D1)	Metabolism & energy
Photosystem II D2 protein (Photosystem Q(A) protein) (PSII D2 protein)	Metabolism & energy
Chloroplast 50S ribosomal protein L2	Protein synthesis, destination and storage
Putative ID 27	
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
pr1-like protein [Oryza sativa]	Disease / defence
Putative ID 28	
OSJNBa0022H21.11 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0022H21.12 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0022H21.17 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0022H21.18 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0022H21.20 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0044K18.1 [Oryza sativa (japonica cultivar-group)]	Unknown
putative leucine-rich protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0044K18.2 [Oryza sativa (japonica cultivar-group)]	Unknown
putative non-phototropic hypocotyl 3 (NPH3) [Oryza sativa (japonica cultivar-group)]	Cell growth / division
OSJNBa0044K18.6 [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 29	
OSJNBa0093P23.5 [Oryza sativa (japonica cultivar-group)]	Unknown
glycosyl transferase-like protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative NAD-dependent isocitrate dehydrogenase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
OSJNBa0044K18.7 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0044K18.20 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0044K18.21 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0044K18.22 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [Oryza sativa (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
Putative ID 30	
eukaryotic initiation factor 4B [Triticum aestivum]	Transcription
OSJNBa0044K18.33 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0011N17.5 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0011N17.6 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0011N17.7 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0011N17.8 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0011N17.9 [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 31	
peptide methionine sulfoxide reductase [Secale cereale]	Protein synthesis, destination and storage
probable b-keto acyl reductase (EC 1.1.-.-) - barley	Metabolism & energy
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
MDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
OSJNBb0011N17.18 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0011N17.19 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0011N17.20 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0011N17.21 [Oryza sativa (japonica cultivar-group)]	Unknown

MDR-like ABC transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
Putative ID 32	
glucose-6-phosphate dehydrogenase [Triticum aestivum]	Metabolism & energy
glucose-6-phosphate dehydrogenase [Triticum aestivum]	Metabolism & energy
glucose-6-phosphate dehydrogenase [Triticum aestivum]	Metabolism & energy
glucose-6-phosphate dehydrogenase [Triticum aestivum]	Metabolism & energy
putative 26S proteasome non-ATPase regulatory subunit 6 (26S proteasome regulatory particle non-ATPase subunit 7)	Protein synthesis, destination and storage
contains similarity to F6I7.30 [Oryza sativa (indica cultivar-group)]	Unknown
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative glucose-6-phosphate dehydrogenase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative nucleotide binding protein [Oryza sativa (japonica cultivar-group)]	Cell structure
putative B' regulatory subunit of protein phosphatase [Oryza sativa (japonica cultivar-group)]	Signal transduction
OSJNBa0081L15.14 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0081L15.15 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0081L15.16 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0081L15.17 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0081L15.18 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0081L15.19 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0081L15.21 [Oryza sativa (japonica cultivar-group)]	Unknown
putative B' regulatory subunit of PP2A (AtB'gamma) [Oryza sativa (japonica cultivar-group)]	Signal transduction
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 33	
putative ribosomal protein L37a [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
MAD2 [Triticum aestivum]	Cell growth / division
MAD2 [Triticum aestivum]	Cell growth / division
MAD2 [Triticum aestivum]	Cell growth / division
GAPDH [Zea mays]	Metabolism & energy
glyceraldehyde 3-phosphate dehydrogenase [Hordeum vulgare]	Metabolism & energy
glyceraldehyde 3-phosphate dehydrogenase [Ranunculus acris]	Metabolism & energy
putative malate synthase [Oryza sativa (indica cultivar-group)]	Metabolism & energy
cytosolic glyceroldehyde-3-phosphate dehydrogenase GAPC3	Metabolism & energy
cytosolic glyceroldehyde-3-phosphate dehydrogenase GAPC4	Metabolism & energy
cytosolic glyceroldehyde-3-phosphate dehydrogenase GAPDH [Triticum aestivum]	Metabolism & energy
malate dehydrogenase [Oryza sativa]	Metabolism & energy
glyceraldehyde 3-phosphate dehydrogenase [Solanum tuberosum]	Metabolism & energy
cytosolic glyceroldehyde-3-phosphate dehydrogenase [Triticum aestivum]	Metabolism & energy
glyceraldehyde-3-phosphate dehydrogenase [Hordeum vulgare subsp. spontaneum]	Metabolism & energy
glyceraldehyde-3-phosphate dehydrogenase [Hordeum vulgare subsp. spontaneum]	Metabolism & energy
glyceraldehyde-3-phosphate dehydrogenase [Musa acuminata]	Metabolism & energy
glyceraldehyde-3-phosphate dehydrogenase [Triticum monococcum]	Metabolism & energy
no hits found	Unknown
glyceraldehyde-3-phosphate dehydrogenase (phosphorylating) (EC 1.2.1.12), cytosolic - barley (fragment)	Metabolism & energy
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative PITSLRE alpha 2-1 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
pr1-like protein [Oryza sativa]	Disease / defence
OJ000223_09.13 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ000223_09.15 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ000223_09.17 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ991113_30.3 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ991113_30.4 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ991113_30.6 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ991113_30.7 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ991113_30.14 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
PREDICTED OJ1791_B03.34 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 34	
protoporphyrinogen IX oxidase [Zea mays]	Metabolism & energy

MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
Integrase core domain, putative [Oryza sativa (japonica cultivar-group)]	Transposons
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
OJ991113_30.19 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ991113_30.24 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0084K20.5 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0084K20.6 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 35	
putative amino acid transport protein AAP2 [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
putative amino acid transporter [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
Transmembrane amino acid transporter protein [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
chlorophyll a/b-binding protein precursor - swollen duckweed	Metabolism & energy
Hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative PLRR-4 polymorphic leucine-rich repeat protein [Oryza sativa (japonica cultivar-group)]	Signal transduction
OSJNBa0089K21.6 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0084K20.6 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0084K20.10 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0084K20.11 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0084K20.12 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0084K20.13 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0084K20.14 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0076N16.21 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0076N16.22 [Oryza sativa (japonica cultivar-group)]	Unknown
putative amino acid permease [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
Putative ID 36	
TNP2-like protein [Sorghum bicolor]	Transposons
putative gag-pol polyprotein [Oryza sativa (japonica cultivar-group)]	Transposons
OSJNBa0079F16.4 [Oryza sativa (japonica cultivar-group)]	Unknown
zinc finger protein [Oryza sativa (japonica cultivar-group)]	Transcription
OSJNBa0076N16.24 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ990528_30.4 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ990528_30.5 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ990528_30.6 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ990528_30.8 [Oryza sativa (japonica cultivar-group)]	Unknown
OJ990528_30.9 [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 37	
chitinase II precursor [Triticum aestivum]	Disease / defence
chitinase IV precursor [Triticum aestivum]	Disease / defence
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
putative retrotransposon polyprotein [Oryza sativa (japonica cultivar-group)]	Transposons
P0410E03.24 [Oryza sativa (japonica cultivar-group)]	Unknown
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative class IV chitinase (CHIV) [Oryza sativa (japonica cultivar-group)]	Disease / defence
pr1-like protein [Oryza sativa]	Disease / defence
OSJNBb0091E11.14 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0091E11.17 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0091E11.18 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0091E11.19 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0091E11.23 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0067K08.3 [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 38	
endo-1,4-beta-glucanase Cell [Hordeum vulgare subsp. vulgare]	Cell structure
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Arabidopsis thaliana]	Unknown
Putative quinone oxidoreductase [Arabidopsis thaliana]	Secondary metabolism
unknown [Zea mays]	Unknown
unknown [Zea mays]	Unknown
unknown [Zea mays]	Unknown
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative leucine zipper-EF-hand containing transmembrane protein 1 [Oryza sativa (japonica cultivar-group)]	Signal transduction

putative RNA recognition motif (RRM)-containing protein [Oryza sativa (japonica cultivar-group)]	Transcription
pr1-like protein [Oryza sativa]	Disease / defence
OSJNBa0067K08.5 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0067K08.8 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0067K08.9 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0067K08.10 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0067K08.12 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0067K08.13 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0067K08.14 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0067K08.17 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0067K08.18 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0085C12.10 [Oryza sativa (japonica cultivar-group)]	Unknown
COG2863: Cytochrome c553 [Burkholderia fungorum LB400]	Metabolism & energy
Putative ID 39	
S-adenosylmethionine decarboxylase [Triticum turgidum subsp. durum x Hordeum chilense]	Protein synthesis, destination and storage
S-adenosylmethionine decarboxylase [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
Hypothetical protein [Arabidopsis thaliana]	Unknown
hypothetical protein [Oryza sativa (indica cultivar-group)]	Unknown
S-adenosylmethionine decarboxylase [Oryza sativa (indica cultivar-group)]	Protein synthesis, destination and storage
putative	Unknown
S-adenosylmethionine decarboxylase precursor [Triticum aestivum]	Secondary metabolism
CONSTANS-like protein CO5 [Hordeum vulgare subsp. vulgare]	Cell growth / division
CONSTANS-like protein CO6 [Hordeum vulgare subsp. vulgare]	Cell growth / division
CONSTANS-like protein CO6 [Hordeum vulgare subsp. vulgare]	Cell growth / division
CONSTANS-like protein CO7 [Hordeum vulgare subsp. vulgare]	Cell growth / division
CONSTANS-like protein [Hordeum vulgare subsp. vulgare]	Cell growth / division
S-adenosylmethionine decarboxylase uORF [Daucus carota]	Secondary metabolism
no hits found	Unknown
no hits found	Unknown
translation initiation factor eIF-4F isozyme form subunit p82 - wheat	Transcription
adenosylmethionine decarboxylase homolog [similarity] - rice	Secondary metabolism
S-adenosylmethionine decarboxylase 2 [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
putative cell division protein FtsH3 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
Unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0067K08.19 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0067K08.20 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0067K08.22 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0067K08.24 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0029H02.4 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0029H02.5 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0029H02.10 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0074L08.20 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
Eukaryotic initiation factor (iso)4F subunit p82-34 (eIF-(iso)4F p82-34)	Transcription
Putative ID 40	
hydroxyanthranilate hydroxycinnamoyltransferase 2 [Avena sativa]	Secondary metabolism
hydroxyanthranilate hydroxycinnamoyltransferase 3 [Avena sativa]	Secondary metabolism
hydroxyanthranilate hydroxycinnamoyltransferase 4 [Avena sativa]	Secondary metabolism
magnesium transporter CorA-like [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
40S ribosomal protein S11 [Euphorbia esula]	Protein synthesis, destination and storage
ribosome protein L23a [Daucus carota]	Protein synthesis, destination and storage
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
putative polyprotein [Oryza sativa (japonica cultivar-group)]	Unknown
putative 60S ribosomal protein L23A [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage
putative retrotransposon polyprotein [Oryza sativa (japonica cultivar-group)]	Transposons
potassium channel tetramerisation domain-containing protein-like [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
OSJNBa0029H02.14 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0029H02.16 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0029H02.17 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0029H02.18 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0029H02.19 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0029H02.21 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0029H02.22 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0029H02.25 [Oryza sativa (japonica cultivar-group)]	Unknown
putative 40S ribosomal protein S11 [Oryza sativa (japonica cultivar-group)]	Protein synthesis, destination and storage

Putative ID 41	
adenine phosphoribosyltransferase [<i>Triticum aestivum</i>]	Metabolism & energy
putative TRAPP subunit [<i>Cynodon dactylon</i>]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative adenine phosphoribosyltransferase form 2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
OSJNBa0014K14.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0014K14.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0014K14.6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0014K14.7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0014K14.9 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0014K14.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0014K14.16 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.~hypothetical protein	Unknown
Putative ID 42	
hypothetical protein [<i>Nicotiana tabacum</i>]	Unknown
hypothetical protein [<i>Oenothera elata</i> subsp. <i>hookeri</i>]	Unknown
Unknown [<i>Vibrio vulnificus</i> CMCP6]	Unknown
Unknown [<i>Vibrio vulnificus</i> CMCP6]	Unknown
alanine aminotransferase [<i>Oryza sativa</i> (indica cultivar-group)]	Metabolism & energy
chloroplast hypothetical protein [<i>Zea mays</i>]	Unknown
hypothetical protein SC0249 [<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Choleraesuis str. SC-B67]	Unknown
hypothetical protein SC4058 [<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Choleraesuis str. SC-B67]	Unknown
OSJNBa0044M19.9 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0014K14.16 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0014K14.18 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ENSANGP00000029120 [<i>Anopheles gambiae</i> str. PEST]	Unknown
hypothetical protein BMA1789 [<i>Burkholderia mallei</i> ATCC 23344]	Unknown
hypothetical protein Avar03000175 [<i>Anabaena variabilis</i> ATCC 29413]	Unknown
Putative ID 43	
OSJNBa0043L24.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0043L24.9 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0043L24.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative early nodulin gene (Enod) related protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease / defence
Integrase core domain, putative [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
RNA polymerase beta' chain [<i>Triticum aestivum</i>]	Transcription
CLIP-associating protein 1-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative family II lipase EXL4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
OSJNBb0002J11.11 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0002J11.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0002J11.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0002J11.18 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0002J11.20 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0002J11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0002J11.22 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0043L24.16 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative GDSL-motif lipase/hydrolase protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
Putative ID 44	
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth / division
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0043L24.16 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0043L24.22 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0043L24.23 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0043L24.25 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0065L13.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0065L13.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0065L13.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative lung seven transmembrane receptor I [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
Putative ID 45	
putative short chain dehydrogenase/reductase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy

caleosin 1 [Hordeum vulgare]	Cell structure
ammonium transporter [Triticum aestivum]	Transporters & intracellular traffic
ammonium transporter Amt1;1 [Triticum aestivum]	Transporters & intracellular traffic
ammonium transporter Amt1;2 [Triticum aestivum]	Transporters & intracellular traffic
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative ammonium transporter 1-3 [Oryza sativa (japonica cultivar-group)]	Transporters & intracellular traffic
putative LEUNIG [Oryza sativa (japonica cultivar-group)]	Cell growth / division
OSJNBb0065L13.11 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0065L13.12 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0065L13.13 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0065L13.14 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0004N05.7 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0004N05.9 [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 46	
ATPase subunit a [Zea mays]	Metabolism & energy
putative protein [Arabidopsis thaliana]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative CER1 [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
ATPase subunit IV [Lactuca sativa]	Metabolism & energy
ATP synthase CF0 A chain [Triticum aestivum]	Metabolism & energy
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative CER1 protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0004N05.14 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0004N05.16 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0004N05.17 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0004N05.21 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0004N05.24 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0004N05.25 [Oryza sativa (japonica cultivar-group)]	Unknown
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein Tery02002584 [Trichodesmium erythraeum IMS101]	Unknown
Putative ID 47	
glycoprotein [Bromus inermis]	Cell structure
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative RPS2 [Oryza sativa (japonica cultivar-group)]	Disease / defence
root abundant protein [Triticum aestivum]	Unknown
NBS-LRR type disease resistance protein O1 [Avena sativa]	Disease / defence
NBS-LRR type disease resistance protein O2 [Avena sativa]	Disease / defence
NBS-LRR type disease resistance protein [Poncirus trifoliata]	Disease / defence
NBS-LRR type resistance protein - barley (fragment)	Disease / defence
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0093F16.8 [Oryza sativa (japonica cultivar-group)]	Unknown
XTP3-transactivated protein A-like [Oryza sativa (japonica cultivar-group)]	Unknown
putative protein kinase (ADK1) [Oryza sativa (japonica cultivar-group)]	Signal transduction
putative hydroxyproline-rich glycoprotein 1 [Oryza sativa (japonica cultivar-group)]	Cell structure
putative NAC domain protein NAC1 [Oryza sativa (japonica cultivar-group)]	Transcription
OSJNBb0070J16.4 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0070J16.6 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 48	
unknown protein [Oryza sativa (japonica cultivar-group)]	Unknown
myb4 transcription factor [Hordeum vulgare subsp. vulgare]	Transcription
putative transcription factor (MYB4) [Arabidopsis thaliana]	Transcription
TNP2-like protein [Sorghum bicolor]	Transposons
phosphoenolpyruvate carboxylase kinase [Sorghum bicolor]	Metabolism & energy
unknown [Arabidopsis thaliana]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
MADS-box protein RMADS216 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
transcription factor Myb2 [Triticum aestivum]	Transcription
Integrase core domain, putative [Oryza sativa (japonica cultivar-group)]	Transposons
P0592G05.3 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0093F16.8 [Oryza sativa (japonica cultivar-group)]	Unknown
putative myb protein [Oryza sativa (japonica cultivar-group)]	Transcription
putative glycogenin I [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
putative phosphoenolpyruvate carboxylase kinase [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
OSJNBb0072M01.18 [Oryza sativa (japonica cultivar-group)]	Unknown

OSJNBa0073E02.5 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0073E02.7 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 49	
phenylalanine ammonia-lyase [Phyllostachys edulis]	Secondary metabolism
phenylalanine ammonia-lyase [Oryza sativa (indica cultivar-group)]	Secondary metabolism
phenylalanine ammonia-lyase [Triticum aestivum]	Secondary metabolism
phenylalanine ammonia-lyase [Triticum aestivum]	Secondary metabolism
phenylalanine ammonia-lyase [Hordeum vulgare subsp. vulgare]	Secondary metabolism
phenylalanine ammonia-lyase [Hordeum vulgare subsp. vulgare]	Secondary metabolism
phenylalanine ammonia-lyase [Hordeum vulgare subsp. vulgare]	Secondary metabolism
OSJNBb0061C13.7 [Oryza sativa (japonica cultivar-group)]	Unknown
inducible phenylalanine ammonia-lyase [Triticum aestivum]	Secondary metabolism
phenylalanine ammonia-lyase [Zea mays]	Secondary metabolism
adenosine kinase-like protein [Oryza sativa (japonica cultivar-group)]	Metabolism & energy
phenylalanine ammonia-lyase [Bambusa oldhamii]	Secondary metabolism
putative phenylalanine ammonia-lyase [Bambusa ventricosa]	Secondary metabolism
no hits found	Unknown
phenylalanine ammonia-lyase (EC 4.3.1.5) - rice	Secondary metabolism
probable phenylalanine ammonia-lyase (EC 4.3.1.5) wali4 - wheat (fragment)	Secondary metabolism
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
P0704D04.3 [Oryza sativa (japonica cultivar-group)]	Unknown
B1045D11.21 [Oryza sativa (japonica cultivar-group)]	Unknown
hypothetical protein [Oryza sativa (japonica cultivar-group)]	Unknown
putative phenylalanine ammonia-lyase [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
putative phenylalanine ammonia-lyase [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
putative phenylalanine ammonia-lyase [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
pr1-like protein [Oryza sativa]	Disease / defence
OSJNBa0073E02.14 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0073E02.18 [Oryza sativa (japonica cultivar-group)]	Unknown
putative phenylalanine ammonia-lyase (EC 4.3.1.5) [Oryza sativa (japonica cultivar-group)]	Secondary metabolism
PREDICTED B1215B07.34 gene product [Oryza sativa (japonica cultivar-group)]	Unknown
Putative ID 50	
putative auxin response factor 10 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
putative auxin response factor 10 [Oryza sativa (japonica cultivar-group)]	Cell growth / division
OSJNBb0061C13.15 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBb0061C13.16 [Oryza sativa (japonica cultivar-group)]	Unknown
OSJNBa0019D11.5 [Oryza sativa (japonica cultivar-group)]	Unknown

8 Appendix B

Peer-reviewed publications

T.J. March, J.A. Able, C. Schultz and A.J. Able (2007) A novel late embryogenesis abundant protein and peroxidase associated with black point in barley grains. *Proteomics* 7: 3000-3008.

Conference proceedings

T.J. March, C Schultz, J.A Able and A.J. Able (2007) Identifying genes underlying a QTL controlling black point of barley grains using comparative genetics. Plant and Animal Genome Conference, San Diego, USA

T.J. March, J. Lahnstein, C. Schultz, J.A. Able and A.J. Able (2005) Using a proteomics approach to unravel the biochemical mechanisms of barley black point symptom development. Proceedings of the 11th Australian Barley Technical Symposium, Hobart, Australia

March, Timothy J., Able, Jason A., Schultz, Carolyn J. & Able, Amanda J. (2007) A novel late embryogenesis abundant protein and peroxidase associated with black point in barley grains.
Proteomics v.7 (20) pp. 3800-3808

NOTE: This publication is included on pages 179-187 in the print copy of the thesis held in the University of Adelaide Library.

It is also available online to authorised users at:

<http://dx.doi.org/10.1002/pmic.200700456>