

Comparative mapping of a QTL controlling black point formation in barley

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Accessory publication

Table S1. Sequence annotation of barley ESTs from BLASTx analysis with rice

The region between base pairs 19,407,129 to 27,015,480 on rice chromosome 7 (*A*) and between base pairs 20,866,047 to 25,816,839 on rice chromosome 4 (*B*) were identified as being syntenous with the barley black point QTL on chromosome 2H. These two genomic rice regions were fragmented into 100 kb sequences (putative ID 1 to 76 and putative ID 1 to 50, respectively) and subsequently used to conduct BLASTn searches. Barley ESTs identified in this analysis were then annotated using BLASTx searches against the GenBank non-redundant protein database. This resulted in the identification of 1928 unique annotations, grouped into 11 categories

A) Rice chromosome 7 contigs bp 19,407,129 to 27,015,480	Functional group
Putative ID 1	
TNP2-like protein [<i>Sorghum bicolor</i>]	Transposons
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344), C71850(E0464), C98611(E0464) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 2	
CD40 antigen isoform 2 precursor variant [<i>Homo sapiens</i>]	Signal transduction
adenosine 5'-phosphosulfate reductase [<i>Zea mays</i>]	Metabolism & energy
adenosine 5'-phosphosulfate reductase 1 [<i>Zea mays</i>]	Metabolism & energy
adenosine 5'-phosphosulfate reductase 2 [<i>Zea mays</i>]	Metabolism & energy
putative methionine aminopeptidase I (MAP1) [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
Putative ID 3	
ribosomal protein S15 [<i>Pisum sativum</i>]	Protein synthesis, destination and storage
Similar to <i>Saccharomyces</i> RAD16 (gb X78993) [<i>Arabidopsis thaliana</i>]	Cell growth/division
TNP2-like protein [<i>Sorghum bicolor</i>]	Transposons
autophagy [<i>Triticum aestivum</i>]	Cell growth/division
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
OSJNBa0093F16.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative DNA repair protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
putative ATP synthase gamma chain 1, chloroplast (H(+)-transporting two-sector ATPase/F(1)-ATPase/ATPC1) [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative CRP1 protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
Putative ID 4	
calcium-dependent protein kinase; CDPK [<i>Triticum aestivum</i>]	Signal transduction
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
calcium-dependent protein kinase [<i>Triticum aestivum</i>]	Signal transduction
calcium-dependent protein kinase [<i>Triticum aestivum</i>]	Signal transduction
no hits found	Unknown
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
MET-10+related protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 5

protein phosphatase type 2C [<i>Lotus japonicus</i>]	Signal transduction
protein phosphatase 2C [<i>Lycopersicon esculentum</i>]	Signal transduction
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0093F16.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
OSJNBa0085I10.2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
alpha-rhamnosidase-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative translational inhibitor protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
ESTs AU075609(C63344),C71850(E0464),C98611(E0464) [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
PREDICTED P0048D08.116 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 6

putative ATPase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative ATPase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative ATPase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative ATPase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
AAA-type ATPase-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative MATE efflux family protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
putative AAA-type ATPase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative RNA Binding Protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative RNA helicase [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 8

putative calcium-independent phospholipase A2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
CD40 antigen isoform 2 precursor variant [<i>Homo sapiens</i>]	Signal transduction
unknown protein [<i>Arabidopsis thaliana</i>]	Unknown
succinate dehydrogenase subunit 3 [<i>Triticum aestivum</i>]	Metabolism & energy
no hits found	Unknown
unknown protein [<i>Arabidopsis thaliana</i>]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 9

PDR-like ABC transporter [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
PDR-like ABC transporter [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
60S ribosomal protein L144 [<i>Brassica rapa</i> subsp. <i>pekinensis</i>]	Protein synthesis, destination and storage
60S ribosomal protein L44 [<i>Phalaenopsis</i> hybrid cultivar]	Protein synthesis, destination and storage
no hits found	Unknown
structural constituent of ribosome [<i>Arabidopsis thaliana</i>]	Protein synthesis, destination and storage
putative 60S ribosomal protein L44 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative PDR-like ABC transporter [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
putative Septum-promoting GTP-binding protein 1 (GTPase spg1) [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative glucose-6-phosphate/phosphate-translocator precursor [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy

Putative ID 10

thioredoxin family-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
putative MtN21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
TNP2-like protein [<i>Sorghum bicolor</i>]	Transposons
60S ribosomal protein L144 [<i>Brassica rapa</i> subsp. <i>pekinensis</i>]	Protein synthesis, destination and storage
60S ribosomal protein L44 [<i>Phalaenopsis</i> hybrid cultivar]	Protein synthesis, destination and storage
protein disulfide isomerase [<i>Zea mays</i>]	Protein synthesis, destination and storage
no hits found	Unknown
structural constituent of ribosome [<i>Arabidopsis thaliana</i>]	Protein synthesis, destination and storage
putative 60S ribosomal protein L44 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage

putative glucose-6-phosphate/phosphate-translocator 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 SU11 [*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 [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
retrotransposon protein, putative, Ty1-copia sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
unknown protein [<i>Arabidopsis thaliana</i>]	Unknown
putative receptor-like protein kinase 4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative receptor-like protein kinase 4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction

Putative ID 17

CD40 antigen isoform 2 precursor variant [<i>Homo sapiens</i>]	Signal transduction
OSJNBa0009P12.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
receptor-like protein kinase-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
Protein kinase domain, putative [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
receptor kinase-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction

Putative ID 18

serine/threonine kinase receptor precursor-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
serine/threonine kinase receptor precursor-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
serine/threonine kinase receptor precursor-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative serine/threonine kinase receptor precursor [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative beta-1,3-glucanase [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative serine/threonine-specific protein kinase(gi 7488195) [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative serine/threonine-specific protein kinase(gi 7488195) [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative serine/threonine-specific protein kinase(gi 7488195) [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative serine/threonine kinase protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction

Putative ID 19

OSJNBa0009P12.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
serine/threonine kinase receptor precursor-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
serine/threonine kinase receptor precursor-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative serine/threonine-specific protein kinase(gi 7488195) [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative serine/threonine-specific protein kinase(gi 7488195) [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative serine/threonine-specific protein kinase(gi 7488195) [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction

Putative ID 20

putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
P0458H05.113 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Kelch-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative serine/threonine kinase protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative serine/threonine kinase protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative serine/threonine kinase protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction

Putative ID 21

Beta-amylase [<i>Secale cereale</i>]	Metabolism & energy
beta-amylase [<i>Hordeum vulgare</i>]	Metabolism & energy
beta-amylase [<i>Hordeum vulgare</i>]	Metabolism & energy
beta-amylase [<i>Hordeum vulgare</i> subsp. spontaneum]	Metabolism & energy
beta-amylase [<i>Hordeum vulgare</i>]	Metabolism & energy
beta-amylase [<i>Hordeum vulgare</i>]	Metabolism & energy
endosperm-specific beta-amylase 1 [<i>Hordeum vulgare</i> subsp. vulgare]	Metabolism & energy

endosperm-specific beta-amylase 1 [<i>Hordeum vulgare</i> subsp. vulgare]	Metabolism & energy
tissue-ubiquitous beta-amylase 2 [<i>Hordeum vulgare</i> subsp. vulgare]	Metabolism & energy
tissue-ubiquitous beta-amylase 2 [<i>Hordeum vulgare</i> subsp. vulgare]	Metabolism & energy
BLE2 protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative serine/threonine kinase receptor precursor [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
Putative ID 22	
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
beta-amylase [<i>Triticum aestivum</i>]	Metabolism & energy
Ferredoxin-NADP reductase binding protein [<i>Zea mays</i>]	Metabolism & energy
oxygen-evolving complex precursor [<i>Triticum aestivum</i>]	Metabolism & energy
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative phycocyanin [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative bHLH protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative Oxygen-evolving enhancer protein 3-1, chloroplast precursor (OEE3) [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344), C71850(E0464), C98611(E0464) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
PREDICTED OJ1582_D10.6 gene product [<i>Oryza sativa</i> (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 [<i>Triticum aestivum</i>]	Cell structure
protein H2A [<i>Triticum aestivum</i>]	Cell structure
protein H2A [<i>Triticum aestivum</i>]	Cell structure
histone H2A [<i>Cicer arietinum</i>]	Cell structure
histone H2A [<i>Triticum aestivum</i>]	Cell structure
histone H2 [<i>Entodinium caudatum</i>]	Cell structure
putative histone H2B [<i>Pinus pinaster</i>]	Cell structure
H2A homolog [<i>Pinus taeda</i>]	Cell structure
isopentenyl pyrophosphate:dimethylallyl pyrophosphate isomerase [<i>Oryza sativa</i>]	Metabolism & energy
MGC82198 protein [<i>Xenopus laevis</i>]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative histone H2A [<i>Arabidopsis thaliana</i>]	Cell structure
histone H2A-like protein [<i>Arabidopsis thaliana</i>]	Cell structure
isopentenyl pyrophosphate isomerase [<i>Zea mays</i>]	Metabolism & energy
histone H2A [<i>Hyacinthus orientalis</i>]	Cell structure
histone H2A.1 [<i>Toxoplasma gondii</i>]	Cell structure
putative histone 2a [<i>Gossypium hirsutum</i>]	Cell structure
histone h2a. [<i>Picea excelsa</i>] [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
DNA binding [<i>Arabidopsis thaliana</i>]	Cell structure
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative 60S ribosomal protein L38 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative histone H2A [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
pentatricopeptide (PPR) repeat-containing protein-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative phototropic response protein family [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative translation releasing factor2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative 60S ribosomal protein L38 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative histone H2A [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
PREDICTED: similar to Histone H2A.291.A [<i>Rattus norvegicus</i>]	Cell structure
Histone H2A-IV	Cell structure
Putative ID 24	
hypothetical polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
CRP1 [<i>Zea mays</i>]	Protein synthesis, destination and storage
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division

putative crp1 protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative retrotransposon polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
Putative ID 25	
unnamed protein product [<i>Mus musculus</i>]	Unknown
unnamed protein product [<i>Mus musculus</i>]	Unknown
histone H42 [<i>Physarum polycephalum</i>]	Cell structure
histone H4 [<i>Diprion pini</i>]	Cell structure
Histone H4 homologue [<i>Sesbania rostrata</i>]	Cell structure
unnamed protein product [<i>Tetraodon nigroviridis</i>]	Unknown
unnamed protein product [<i>Tetraodon nigroviridis</i>]	Unknown
histone H4 [<i>Solanum chacoense</i>]	Cell structure
histone H4 [<i>Hyacinthus orientalis</i>]	Cell structure
hypothetical protein CNL05670 [<i>Cryptococcus neoformans</i> var. <i>neoformans</i> JEC21]	Unknown
histone 4 [<i>Elaeis guineensis</i>]	Cell structure
Chain F, Crystallographic Studies Of Nucleosome Core Particles Containing Histone 'sin' Mutants	Cell structure
DNA binding [<i>Arabidopsis thaliana</i>]	Cell structure
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
proteasome inhibitor-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
pentatricopeptide (PPR) repeat-containing protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative vacuolar ATP synthase subunit H [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
RNA recognition motif (RRM)-containing protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
PREDICTED: similar to Histone H2B 291B [<i>Rattus norvegicus</i>]	Cell structure
PREDICTED: similar to germinal histone H4 gene [<i>Gallus gallus</i>]	Cell structure
PREDICTED: similar to histone protein Hist2h3c1 [<i>Gallus gallus</i>]	Cell structure
putative 60S ribosomal protein L38 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative 60S ribosomal protein L38 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
hypothetical protein [<i>Yarrowia lipolytica</i>]	Unknown
PREDICTED: similar to germinal histone H4 gene [<i>Canis familiaris</i>]	Cell structure
PREDICTED: similar to germinal histone H4 gene [<i>Canis familiaris</i>]	Cell structure
PREDICTED: similar to germinal histone H4 gene [<i>Bos taurus</i>]	Cell structure
PREDICTED: similar to germinal histone H4 gene [<i>Bos taurus</i>]	Cell structure
PREDICTED: similar to germinal histone H4 gene [<i>Bos taurus</i>]	Cell structure
histone H4 [<i>Candida albicans</i> SC5314]	Cell structure
PREDICTED: similar to germinal histone H4 gene [<i>Canis familiaris</i>]	Cell structure
PREDICTED: similar to germinal histone H4 gene [<i>Bos taurus</i>]	Cell structure
PREDICTED: similar to germinal histone H4 gene [<i>Bos taurus</i>]	Cell structure
Histone H4	Cell structure
Putative ID 26	
cellulose synthase-like protein OsCslF4 [<i>Oryza sativa</i>]	Cell structure
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Integrase core domain, putative [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
B1100D10.31 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative S-receptor kinase KIK1 precursor [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
CHP-rich zinc finger protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
CHP-rich zinc finger protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative cellulose synthase-like protein OsCslF1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative cellulose synthase-like protein OsCslF1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
Putative ID 27	
S-domain receptor-like protein kinase [<i>Zea mays</i>]	Signal transduction
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
Uncharacterized Cys-rich domain [<i>Medicago truncatula</i>]	Unknown
no hits found	Unknown
no hits found	Unknown
unknown protein [<i>Arabidopsis thaliana</i>]	Unknown
putative cellulose synthase-5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative cellulose synthase-like protein OsCslF1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative cellulose synthase-like protein OsCslF1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative cellulose synthase [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative S-receptor kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction

Putative ID 28

hypothetical polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative eukaryotic translation initiation factor 4G [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative cyclin D1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
hypothetical protein [<i>Zea mays</i>]	Unknown
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
retrotransposon protein, putative, Ty1-copia sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
putative retrotransposon polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence

Putative ID 29

putative octicosapeptide/Phox/Bem1p (PB1) domain-containing protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative equilibrative nucleoside transporter ENT8 splice variant [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
Contains similarity to box helicases gb U29097 from <i>C. elegans</i> and to the ENBP1 gene product gb X95995 from <i>Vicia sativa</i> .	Cell structure
putative Rieske Fe-S precursor protein [<i>Triticum aestivum</i>]	Metabolism & energy
putative Rieske Fe-S precursor protein [<i>Cynodon dactylon</i>]	Metabolism & energy
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
OSJNBa0093F16.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative DNA-binding protein PD3, chloroplast [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
OSJNBa0015K02.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative ubiquinone biosynthesis protein AarF [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure

Putative ID 30

putative glucose transporter [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
Lhcb4- protein [<i>Arabidopsis thaliana</i>]	Cell structure
chlorophyll a/b-binding protein [<i>Hordeum vulgare</i> subsp. vulgare]	Metabolism & energy
Chlorophyll a/b-binding protein CP29 precursor [<i>Zea mays</i>]	Metabolism & energy
glucose transporter [<i>Saccharum</i> hybrid cultivar H65-7052]	Transporters & intracellular traffic
monosaccharide transporter 4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
chloroplast Ptr ToxA-binding protein [<i>Triticum aestivum</i>]	Cell structure
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
monosaccharide transport protein 1 [<i>Zea mays</i>]	Transporters & intracellular traffic
chloroplast inositol phosphatase-like protein [<i>Triticum aestivum</i>]	Signal transduction
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
B-gal alpha peptide [Shuttle vector pMQ61]	Metabolism & energy
light-harvesting complex IIa protein	Metabolism & energy
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative monosaccharide transport protein MST1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
putative glucose transport protein STP1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
myb protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative 3(2),5-bisphosphate nucleotidase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative 27k vesicle-associated membrane protein-associated protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
membrane lipoprotein lipid attachment site-containing protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative monosaccharide transporter 3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic

Putative ID 31

putative cellulose synthase [<i>Triticum aestivum</i>]	Cell structure
hypothetical protein [<i>Oenothera elata</i> subsp. hookeri]	Unknown
TNP2-like protein [<i>Sorghum bicolor</i>]	Transposons
ubiquitin precursor [<i>Hevea brasiliensis</i>]	Protein synthesis, destination and storage
polyubiquitin [<i>Prunus avium</i>]	Protein synthesis, destination and storage

cytochrome b559 beta chain; psbF [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknow protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
no hits found	Unknown
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
putative ubiquitin/ribosomal protein S27a [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative short-chain dehydrogenase/reductase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative short-chain dehydrogenase/reductase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative short-chain dehydrogenase/reductase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative organic cation transporter [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
putative organic cation transporter [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
ESTs AU075609(C63344), C71850(E0464), C98611(E0464) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein UM02073.1 [<i>Ustilago maydis</i> 521]	Unknown

Putative ID 32

light harvesting chlorophyll a/b-binding protein [<i>Nicotiana sylvestris</i>]	Metabolism & energy
light harvesting chlorophyll a/b-binding protein [<i>Nicotiana sylvestris</i>]	Metabolism & energy
chlorophyll a/b binding protein [<i>Panax ginseng</i>]	Metabolism & energy
unnamed protein product [<i>Petunia</i> sp.]	Unknown
unnamed protein product [<i>Petunia</i> sp.]	Unknown
unnamed protein product [<i>Zea mays</i>]	Unknown
unnamed protein product [<i>Nicotiana tabacum</i>]	Unknown
unnamed protein product [<i>Nicotiana tabacum</i>]	Unknown
unnamed protein product [<i>Nicotiana tabacum</i>]	Unknown
type III LHCII CAB precursor protein [<i>Hordeum vulgare</i>]	Cell structure
LHCP [<i>Zea mays</i>]	Cell structure
chlorophyll a/b-binding protein [<i>Beta vulgaris</i> 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 [<i>Triticum aestivum</i>]	Metabolism & energy
type 2 light-harvesting chlorophyll a/b-binding polypeptide [<i>Pinus palustris</i>]	Metabolism & energy
chlorophyll a/b binding protein [<i>Oryza sativa</i>]	Metabolism & energy
chlorophyll a/b binding protein [<i>Rumex palustris</i>]	Metabolism & energy
Unknown (protein for IMAGE:5194336) [<i>Homo sapiens</i>]	Unknown
chlorophyll a/b binding protein [<i>Brassica oleracea</i>]	Metabolism & energy
chlorophyll a/b binding protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
no hits found	Unknown
chlorophyll a/b-binding protein [<i>Gossypium hirsutum</i>]	Metabolism & energy
chlorophyll a/b binding protein 2	Metabolism & energy
chlorophyll a/b binding protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative chlorophyll a/b-binding protein 2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative chlorophyll A-B binding protein of LHCII type III, chloroplast precursor (CAB) [<i>Oryza sativa</i> (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 [<i>Zea mays</i>]	Protein synthesis, destination and storage
guanine nucleotide-exchange-like protein [<i>Arabidopsis thaliana</i>]	Metabolism & energy
40S ribosomal protein S11 [<i>Euphorbia esula</i>]	Protein synthesis, destination and storage
hypothetical protein LOC_Os10g21710 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative cell differentiation protein [<i>Oryza sativa</i>]	Cell growth/division
putative NADH dehydrogenase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative secretory carrier membrane protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
putative leucine-rich repeat transmembrane protein kinase 1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
OSJNBa0014K14.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0070C17.18 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0070C17.20 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

putative flavonol 3-O-glucosyltransferase [<i>Oryza sativa</i> (japonica cultivar-group)]	Secondary metabolism
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
guanine nucleotide-exchange protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative guanine nucleotide-exchange protein GEP2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative 40S ribosomal protein S11 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
40S ribosomal protein S11	Protein synthesis, destination and storage

Putative ID 34

Integrase core domain, putative [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
exostosin family protein-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative peptidyl-prolycyls-trans isomerase protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative protein phosphatase 2C [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 35

ZF protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
no hits found	Unknown
exostosin family protein-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative SCARECROW protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
CCCH-type zinc finger protein-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
P0519D04.26 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative calmodulin-domain protein kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative calcium-dependent protein kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative calcium-dependent protein kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative calcium-dependent protein kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
floral organ regulator 2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
PREDICTED OJ1092_A07.131 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 36

MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
hypothetical protein [<i>Solanum demissum</i>]	Unknown
hypothetical protein [<i>Eucalyptus globulus</i> subsp. globulus]	Unknown
remorin-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
remorin-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative arsenite inducible RNA associated protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative insulin degrading enzyme [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative insulin degrading enzyme [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy

Putative ID 37

hypothetical polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0009P12.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
S8e ribosomal protein [<i>Curculio glandium</i>]	Protein synthesis, destination and storage
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
copper ion binding/electron transporter [<i>Arabidopsis thaliana</i>]	Metabolism & energy
unknown protein [<i>Arabidopsis thaliana</i>]	Unknown
putative retrotransposon polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
putative insulin degrading enzyme [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative Ribosome recycling factor, chloroplast precursor [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative vacuole Membrane Protein 1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
ESTs AU075609(C63344), C71850(E0464), C98611(E0464) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 38

alpha-tubulin [<i>Chlorella vulgaris</i>]	Cell structure
alpha-tubulin [<i>Cyanidioschyzon merolae</i>]	Cell structure
alpha-tubulin 3 [<i>Hordeum vulgare</i> subsp. vulgare]	Cell structure
alpha-tubulin [<i>Physarum polycephalum</i>]	Cell structure
alpha-tubulin [<i>Prunus dulcis</i>]	Cell structure
alpha tubulin [<i>Zea mays</i>]	Cell structure
alpha-tubulin [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
alpha-tubulin 1 [<i>Hordeum vulgare</i> subsp. vulgare]	Cell structure
alpha-tubulin 2 [<i>Hordeum vulgare</i> subsp. vulgare]	Cell structure
alpha-tubulin 4 [<i>Hordeum vulgare</i> subsp. vulgare]	Cell structure
alpha-tubulin 5 [<i>Hordeum vulgare</i> subsp. vulgare]	Cell structure
alpha-tubulin [<i>Nicotiana tabacum</i>]	Cell structure
alpha tubulin [<i>Zea mays</i>]	Cell structure
alpha-tubulin [<i>Miscanthus sinensis</i>]	Cell structure
alpha-tubulin [<i>Miscanthus transmorrisonensis</i>]	Cell structure
alpha-tubulin [<i>Miscanthus sinensis</i> var. condensatus]	Cell structure
alpha-tubulin [<i>Miscanthus floridulus</i>]	Cell structure
alpha tubulin [<i>Setaria viridis</i>]	Cell structure
alpha tubulin [<i>Leishmania major</i>]	Cell structure
alpha tubulin [<i>Hordeum vulgare</i>]	Cell structure
tubulin [<i>Oryza sativa</i>]	Cell structure
alpha-tubulin [<i>Chloromonas</i> sp. ANT3]	Cell structure
alpha-2-tubulin [<i>Gecarcinus lateralis</i>]	Cell structure
alpha-tubulin [<i>Triticum aestivum</i>]	Cell structure
alpha tubulin [<i>Mesembryanthemum crystallinum</i>]	Cell structure
Tubulin, alpha 8 like [<i>Danio rerio</i>]	Cell structure
alpha tubulin subunit [<i>Rosa hybrid</i> cultivar]	Cell structure
alpha tubulin [<i>Cryptosporidium parvum</i>]	Cell structure
alpha-tubulin [<i>Tintinnopsis tubulosoides</i>]	Cell structure
alpha-tubulin [<i>Metacylis angulata</i>]	Cell structure
alpha-tubulin [<i>Gossypium barbadense</i>]	Cell structure
putative tubulin alpha-2/alpha-4 chain [<i>Brassica napus</i>]	Cell structure
alpha-tubulin 2 [<i>Gossypium hirsutum</i>]	Cell structure
alpha tubulin 2 [<i>Bigeloviella natans</i>]	Cell structure
alpha-tubulin [<i>Camellia sinensis</i>]	Cell structure
alpha tubulin 1 [<i>Pseudotsuga menziesii</i> var. menziesii]	Cell structure
alpha-tubulin [<i>Ceratopteris richardii</i>]	Cell structure
putative alpha-tubulin [<i>Solanum betaceum</i>]	Cell structure
alpha-tubulin [<i>Onchocerca volvulus</i>]	Cell structure
alpha-tubulin II [<i>Plasmodium berghei</i>]	Cell structure
alpha-tubulin [<i>Trypanosoma danilewskyi</i>]	Cell structure
alpha tubulin 1 [<i>Trimastix marina</i>]	Cell structure
tubulin alpha-1 chain - <i>Plasmodium yoelii</i> (fragment)	Cell structure
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative potassium channel regulatory factor [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
putative WD repeat domain 5 protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative copper amine oxidase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative AP2 domain containing protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
putative karyopherin-beta 3 variant [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
PREDICTED: similar to tubulin, alpha 1; alpha-tubulin [<i>Pan troglodytes</i>]	Cell structure
Tubulin alpha-2 chain (Alpha-2 tubulin)	Cell structure
Tubulin alpha-1 chain	Cell structure

Putative ID 39

cytoplasmatic ribosomal protein S13 [<i>Zea mays</i>]	Protein synthesis, destination and storage
cytoplasmatic ribosomal protein S13 [<i>Oryza sativa</i>]	Protein synthesis, destination and storage
unknown [<i>Triticum aestivum</i>]	Unknown
adenosine-5'-phosphosulfate kinase [<i>Zea mays</i>]	Metabolism & energy
cytoplasmatic ribosomal protein S13 [<i>Triticum aestivum</i>]	Protein synthesis, destination and storage
no hits found	Unknown
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative GDP-fucose protein-O-fucosyltransferase 2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy

mitogen activated protein kinase kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative mitogen activated protein kinase kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative 40S RIBOSOMAL PROTEIN S13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative adenosine-5'-phosphosulfate kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative carboxyl-terminal proteinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative CMP-sialic acid transporter [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
putative 40S RIBOSOMAL PROTEIN S13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative 40S RIBOSOMAL PROTEIN S13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
PREDICTED OJ1699_E05.22-1 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 40

unnamed protein product [<i>Mus musculus</i>]	Unknown
histidine kinase [<i>Zea mays</i>]	Signal transduction
BDAI-1; Barley dimeric alpha-amylase inhibitor [<i>Hordeum vulgare</i> subsp. vulgare]	Metabolism & energy
LHCI-680, photosystem I antenna protein [<i>Hordeum vulgare</i> subsp. vulgare]	Metabolism & energy
succinyl-CoA synthetase alpha subunit [<i>Sus scrofa</i>]	Metabolism & energy
succinyl-CoA ligase alpha 1 subunit [<i>Lycopersicon esculentum</i>]	Metabolism & energy
At5g19850 [<i>Arabidopsis thaliana</i>]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein FG04054.1 [<i>Gibberella zeae</i> PH-1]	Unknown
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
OSJNBa0088H09.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative elicitor inducible beta-1,3-glucanase [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
putative succinyl-CoA ligase alpha subunit [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
sugar transport protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
putative subtilisin-like serine protease [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344), C71850(E0464), C98611(E0464) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
PREDICTED OJ1065_B06.19-1 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 41

MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
hypothetical protein LOC_Os10g21710 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
no hits found	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative tocopherol polyprenyltransferase [<i>Oryza sativa</i> (japonica cultivar-group)]	Secondary metabolism
putative 5-formyltetrahydrofolate cycloligase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative 5-formyltetrahydrofolate cycloligase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative Nt-gh3 deduced protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 42

finger protein pcp1-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative mature anther-specific protein LAT61 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
putative DNA helicase [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative sugar transporter [<i>Oryza sativa</i>]	Transporters & intracellular traffic
INDETERMINATE-related protein 10 [<i>Zea mays</i>]	Cell growth/division
INDETERMINATE-related protein 7 [<i>Zea mays</i>]	Cell growth/division
INDETERMINATE-related protein 9 [<i>Zea mays</i>]	Cell growth/division
no hits found	Unknown
unknown protein [<i>Arabidopsis thaliana</i>]	Unknown
nucleic acid binding/transcription factor/zinc ion binding [<i>Arabidopsis thaliana</i>]	Transcription
putative acyl carrier protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
P0489A05.26 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative mature anther-specific protein LAT61 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
putative geranylgeranyl diphosphate synthase [<i>Oryza sativa</i> (japonica cultivar-group)]	Secondary metabolism
transporter-related-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
zinc finger protein-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
PREDICTED P0453G03.28 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 43

hypothetical polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative sugar transporter [<i>Oryza sativa</i>]	Transporters & intracellular traffic
putative sorbitol transporter [<i>Prunus cerasus</i>]	Transporters & intracellular traffic
SUSIBA2 [<i>Hordeum vulgare</i>]	Transcription
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein LOC_Os10g21710 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative chitin-inducible gibberellin-responsive protein [<i>Bambusa ventricosa</i>]	Signal transduction
putative retrotransposon polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
putative sorbitol transporter [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
putative sugar transport protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
chitin-inducible gibberellin-responsive protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
Yippe-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
serine/threonine protein kinase PKPA-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction

Putative ID 44

hypothetical polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
AT5g47540/MNJ7_13 [<i>Arabidopsis thaliana</i>]	Unknown
Mo25 family protein [<i>Brassica oleracea</i>]	Cell structure
no hits found	Unknown
unknown protein [<i>Arabidopsis thaliana</i>]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative retrotransposon polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
photoreceptor-interacting protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative heterogeneous nuclear ribonucleoprotein A1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
PREDICTED OJ1060_D03.106 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 45

NADH-ubiquinone oxidoreductase-related-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative amino-acid N-acetyltransferase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
NADH-ubiquinone oxidoreductase 18 kDa subunit, mitochondrial precursor-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy

Putative ID 46

no hits found	Unknown
ERF1-2 (EUKARYOTIC RELEASE FACTOR 1-2); translation release factor/translation release factor, codon specific [<i>Arabidopsis thaliana</i>]	Protein synthesis, destination and storage
protein binding [<i>Arabidopsis thaliana</i>]	Protein synthesis, destination and storage
putative peptide chain release factor subunit 1 (ERF1) [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
eukaryotic peptide chain release factor subunit 1-3 (eRF1-3) [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative eukaryotic peptide chain release factor subunit 1-3 (eRF1-3) [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
arm repeat-containing protein-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative interferon-related protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
putative formin homology(FH) domain-containing protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure

Putative ID 47

beta3-glucuronyltransferase [<i>Hordeum vulgare</i>]	Metabolism & energy
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
expressed protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
expressed protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0093F16.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
cytoplasmic protein of eukaryotic origin (38.3 kD)-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative lateral organ boundaries (LOB) domain protein 37 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative pentatricopeptide (PPR) repeat-containing protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
lipase-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 48	
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
expressed protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Gibberellin regulated protein [<i>Medicago truncatula</i>]	Cell growth/division
no hits found	Unknown
unknown protein [<i>Arabidopsis thaliana</i>]	Unknown
putative auxin-responsive GH3 protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
putative short-chain alcohol dehydrogenase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative CND41, chloroplast nucleoid DNA binding protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative ABI3-interacting protein 2; CnAIP2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
putative Nt-gh3 deduced protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative MFP1 attachment factor 1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative sex determination protein tasselseed 2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
putative sex determination protein tasselseed 2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
putative sex determination protein tasselseed 2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
Putative ID 49	
cysteine synthase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative cysteine synthase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
protein kinase-like protein [<i>Arabidopsis thaliana</i>]	Signal transduction
pEP148R-like [African swine fever virus]	Unknown
Dep1-like decapping family, putative [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
no hits found	Unknown
metal ion binding [<i>Arabidopsis thaliana</i>]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative diaphanous homologue [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative cobW protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
Putative ID 50	
CD40 antigen isoform 2 precursor variant [<i>Homo sapiens</i>]	Signal transduction
translation initiation factor 5A precursor protein (eIF-5A) [<i>Senecio vernalis</i>]	Protein synthesis, destination and storage
eukaryotic translation initiation factor 5A-3 [<i>Lycopersicon esculentum</i>]	Protein synthesis, destination and storage
eukaryotic translation initiation factor 5A-2 [<i>Medicago sativa</i>]	Protein synthesis, destination and storage
unknown [<i>Arabidopsis thaliana</i>]	Unknown
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
translation initiation factor eIF-5A [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
translation initiation factor 5A [<i>Aegilops tauschii</i>]	Protein synthesis, destination and storage
eukaryotic translation initiation factor eIF5A [<i>Rosa chinensis</i>]	Protein synthesis, destination and storage
unknown protein [<i>Arabidopsis thaliana</i>]	Unknown
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative translation initiation factor 5A [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
translation initiation factor 5A [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative cyclin-dependent kinase CDC2C [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
putative zinc finger transcription factor WRKY [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
translation initiation factor 5A [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 51

NADPH-dependent HC-toxin reductase [<i>Hordeum vulgare</i>]	Disease/defence
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative rRNA methylase [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative DNA helicase [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative beta-glucuronidase precursor [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative DNA-binding protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative cobW protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
pentatricopeptide (PPR) repeat-containing protein-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative dihydrokaempferol 4-reductase [<i>Oryza sativa</i> (japonica cultivar-group)]	Secondary metabolism
putative NADPH HC toxin reductase [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence

Putative ID 52

NADPH-dependent HC-toxin reductase [<i>Hordeum vulgare</i>]	Disease/defence
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
expressed protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
expressed protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
catalytic/hydrolase [<i>Arabidopsis thaliana</i>]	Metabolism & energy
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
putative WD-repeat protein 12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
glycosyl hydrolase family 17-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative dihydrokaempferol 4-reductase [<i>Oryza sativa</i> (japonica cultivar-group)]	Secondary metabolism
putative NADPH HC toxin reductase [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 53

hypothetical polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative protein kinase [<i>Sorghum bicolor</i>]	Signal transduction
no hits found	Unknown
catalytic/hydrolase [<i>Arabidopsis thaliana</i>]	Metabolism & energy
putative retrotransposon polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
putative receptor-like protein kinase (having alternative splicing) [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative histone deacetylase [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative receptor-like protein kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative glycerophosphoryl diester phosphodiesterase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative WD repeat protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 54

ndhH protein [<i>Hordeum vulgare</i> subsp. vulgare]	Unknown
reversibly glycosylated polypeptide [<i>Triticum aestivum</i>]	Unknown
reversibly glycosylated polypeptide [<i>Gossypium hirsutum</i>]	Unknown
type IIIa membrane protein cp-wap13 [<i>Vigna unguiculata</i>]	Cell structure
reversibly glycosylated polypeptide-1 [<i>Arabidopsis thaliana</i>]	Unknown
putative reversibly glycosylated polypeptide , 3'-partial [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
UDP-glucose:protein transglucosylase-like protein SIUPTG1 [<i>Lycopersicon esculentum</i>]	Metabolism & energy
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
catalytic/hydrolase [<i>Arabidopsis thaliana</i>]	Unknown
RGP2; alpha-1,4-glucan-protein synthase (UDP-forming) [<i>Arabidopsis thaliana</i>]	Cell structure
reversibly glycosylated polypeptide [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative phytochelatin synthetase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative phytochelatin synthetase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
Putative cytochrome P-450 [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
Putative peptide transporter [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic

unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative 6-phosphogluconolactonase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
Putative phytochelatin synthetase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
Putative phytochelatin synthetase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
translocase inner membrane-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative reversibly glycosylated polypeptide [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
PREDICTED OSJNBb0059G13.23 gene product [<i>Oryza sativa</i> (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 [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
MADS-box protein 3 [<i>Hordeum vulgare</i> subsp. vulgare]	Cell growth/division
MADS-box protein 7 [<i>Hordeum vulgare</i> subsp. vulgare]	Cell growth/division
MADS-box protein 8 [<i>Hordeum vulgare</i> subsp. vulgare]	Cell growth/division
MADS box protein [<i>Triticum aestivum</i>]	Cell growth/division
transcription factor MADS56 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
AGAMOUS LIKE6-like protein [<i>Hordeum vulgare</i> subsp. vulgare]	Cell growth/division
AGAMOUS LIKE9-like protein [<i>Hordeum vulgare</i> subsp. vulgare]	Cell growth/division
MADS-box protein HvBM5A [<i>Hordeum vulgare</i> subsp. vulgare]	Cell growth/division
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
retrotransposon protein, putative, Ty1-copia sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
MADS box protein VRT-2 [<i>Hordeum vulgare</i> subsp. vulgare]	Cell growth/division
no hits found	Unknown
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
ESTs AU075609(C63344),C71850(E0464),C98611(E0464)	Unknown
Putative ID 56	
hypothetical polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
HAP3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
HAP3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative transcription factor [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative agenet domain-containing protein/bromo-adjacent homology (BAH) domain-containing protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
agenet domain-containing protein/bromo-adjacent homology (BAH) domain-containing protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative cis-prenyltransferase [<i>Oryza sativa</i> (japonica cultivar-group)]	Secondary metabolism
ATP synthase alpha subunit	Metabolism & energy
CCAAT-binding transcription factor-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
AtpA [<i>Elymus sibiricus</i>]	Unknown
transcription factor [<i>Arabidopsis thaliana</i>]	Transcription
putative cis-prenyltransferase [<i>Oryza sativa</i> (japonica cultivar-group)]	Secondary metabolism
putative CAAT-box DNA binding protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative retrotransposon polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative DNA binding transcription factor [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
ESTs AU075609(C63344), C71850(E0464), C98611(E0464) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 57	
Alfin-1 [<i>Medicago sativa</i>]	Unknown
nucleic acid binding protein [<i>Oryza sativa</i>]	Cell structure
Hypothetical protein [<i>Oryza sativa</i>]	Unknown
Putative zinc-binding peroxisomal integral membrane protein [<i>Oryza sativa</i>]	Cell structure
Putative nucleic acid binding protein [<i>Oryza sativa</i>]	Transcription
putative 40S ribosomal protein S3 [<i>Triticum aestivum</i>]	Protein synthesis, destination and storage
small nuclear ribonucleoprotein polypeptide G [<i>Hyacinthus orientalis</i>]	Protein synthesis, destination and storage
40S ribosomal protein S3 [<i>Chlamydomonas incerta</i>]	Protein synthesis, destination and storage
unknown [<i>Solanum tuberosum</i>]	Unknown

unknown protein [<i>Arabidopsis thaliana</i>]	Unknown
nucleic acid binding protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative ribosomal protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative small nuclear ribonucleoprotein polypeptide G [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative transcription factor [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative membrane protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative nucleic acid binding protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative 40S ribosomal protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative small nuclear ribonucleoprotein E [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative Peroxisome assembly protein 10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 58

OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 59

putative 60S ribosomal protein L27a [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative Avr9/Cf-9 rapidly elicited protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
putative cysteine synthase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
CD40 antigen isoform 2 precursor variant [<i>Homo sapiens</i>]	Signal transduction
protein kinase-like protein [<i>Arabidopsis thaliana</i>]	Signal transduction
ribosomal protein L27a [<i>Petunia x hybrida</i>]	Protein synthesis, destination and storage
ribosomal protein L22 [<i>Argopecten irradians</i>]	Protein synthesis, destination and storage
ribosomal protein L27a-like protein [<i>Solanum tuberosum</i>]	Protein synthesis, destination and storage
no hits found	Unknown
ATP binding/kinase/protein kinase/protein serine/threonine kinase/protein-tyrosine kinase [<i>Arabidopsis thaliana</i>]	Signal transduction
Ser/Thr protein kinase, putative [<i>Plasmodium falciparum</i> 3D7]	Signal transduction
putative serine/threonine protein kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative ribosomal protein L27a [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative protein kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
hydrolase-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative RSH, disease resistance-related protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
putative 60S ribosomal protein L27a [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative auxin-regulated dual specificity cytosolic kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 60

cysteine synthase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative cysteine synthase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
protein kinase-like protein [<i>Arabidopsis thaliana</i>]	Signal transduction
putative elongation factor 1 beta [<i>Hordeum vulgare</i> subsp. vulgare]	Cell growth/division
extensin-like protein [<i>Lycopersicon esculentum</i>]	Cell structure
von Willebrand factor type A domain containing protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
no hits found	Unknown
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ABC transporter permease protein-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative membrane protein PTM1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative oligouridylylate binding protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
COP1-interacting protein 7 (CIP7)-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
ESTs AU075609(C63344), C71850(E0464), C98611(E0464) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 61

CD40 antigen isoform 2 precursor variant [<i>Homo sapiens</i>]	Signal transduction
sucrose synthase [<i>Lolium perenne</i>]	Metabolism & energy

sucrose synthase type 2 [<i>Triticum aestivum</i>]	Metabolism & energy
sucrose synthase type I [<i>Triticum aestivum</i>]	Metabolism & energy
sucrose synthase [<i>Hordeum vulgare</i> subsp. vulgare]	Metabolism & energy
sucrose synthase [<i>Hordeum vulgare</i>]	Metabolism & energy
sucrose synthase [<i>Hordeum vulgare</i> subsp. vulgare]	Metabolism & energy
sucrose-synthase 1 [<i>Tulipa gesneriana</i>]	Metabolism & energy
sucrose synthase 2 [<i>Hordeum vulgare</i> subsp. vulgare]	Metabolism & energy
beta-ketoacyl-ACP synthase [<i>Hordeum vulgare</i> subsp. vulgare]	Metabolism & energy
OSJNBa0009P12.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
sus1 gene product	Metabolism & energy
ribosome-associated protein p40 [<i>Glycine max</i>]	Protein synthesis, destination and storage
sucrose-UDP glucosyltransferase 2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
sucrose synthase [<i>Bambusa oldhamii</i>]	Metabolism & energy
putative senescence-associated-like protein [<i>Zea mays</i>]	Disease/defence
sucrose synthase [<i>Bambusa oldhamii</i>]	Metabolism & energy
40S ribosomal protein S0, putative [<i>Cryptococcus neoformans</i> var. neoformans JEC21]	Protein synthesis, destination and storage
root abundant factor [<i>Hordeum vulgare</i>]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
RPSAB; structural constituent of ribosome [<i>Arabidopsis thaliana</i>]	Protein synthesis, destination and storage
Putative 40S Ribosomal protein [<i>Oryza sativa</i>]	Protein synthesis, destination and storage
COP1-interacting protein 7 (CIP7)-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative (S)-2-hydroxy-acid oxidase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative 40S ribosomal protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
senescence-associated putative protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
Sucrose synthase 2 (Sucrose-UDP glucosyltransferase 2)	Metabolism & energy

Putative ID 62

unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative alanine aminotransferase [<i>Triticum aestivum</i>]	Metabolism & energy
putative alanine aminotransferase [<i>Zea mays</i>]	Metabolism & energy
ring-H2 zinc finger protein [<i>Zea mays</i>]	Transcription
putative leucine-rich repeat transmembrane protein kinase 2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative alanine aminotransferase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative caltractin [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure

Putative ID 63

unknown protein [<i>Arabidopsis thaliana</i>]	Unknown
Putative FH protein interacting protein FIP1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
transcription factor R18-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
AHM1(AT hook-containing MAR binding protein1)-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative D-type cyclin [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
pentatricopeptide repeat protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
homeobox transcription factor Hox7-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative CDPK-related protein kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative GTP-binding protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative FH protein interacting protein FIP1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
PREDICTED P0594D10.112 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 64

protein kinase HvPKABA1 [<i>Hordeum vulgare</i> subsp. vulgare]	Signal transduction
3-deoxy-D-arabino heptulosonate-7-phosphate synthase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
CD40 antigen isoform 2 precursor variant [<i>Homo sapiens</i>]	Signal transduction
S6 ribosomal protein [<i>Asparagus officinalis</i>]	Protein synthesis, destination and storage
ribosomal protein S6 RPS6-1 [<i>Zea mays</i>]	Protein synthesis, destination and storage
serine-threonine protein kinase [<i>Triticum aestivum</i>]	Signal transduction
plastidic 3-deoxy-D-arabino-heptulosonate 7-phosphate synthase 2 [<i>Petroselinum crispum</i>]	Metabolism & energy
ribosomal protein s6 RPS6-2 [<i>Zea mays</i>]	Protein synthesis, destination and storage

tonoplast membrane integral protein ZmTIP3-1 [<i>Zea mays</i>]	Cell structure
cytochrome c oxidase subunit, putative [<i>Arabidopsis thaliana</i>]	Metabolism & energy
putative cytochrome c oxidase subunit [<i>Triticum aestivum</i>]	Metabolism & energy
ribosomal protein S6 [<i>Brassica napus</i>]	Protein synthesis, destination and storage
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
protein kinase 1 [<i>Aegilops tauschii</i>]	Signal transduction
52O08_33 [<i>Brassica rapa</i> subsp. <i>pekinensis</i>]	Unknown
ribosomal protein S6-like protein [<i>Solanum tuberosum</i>]	Protein synthesis, destination and storage
3-deoxy-D-arabino-heptulosonate 7-phosphate synthase, putative [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
altered lacZ [Binary vector pBINPLUS/ARS]	Unknown
EMB3010; structural constituent of ribosome [<i>Arabidopsis thaliana</i>]	Protein synthesis, destination and storage
ATP binding/ATP-dependent helicase/ helicase/nucleic acid binding/ubiquitin-protein ligase/ zinc ion binding [<i>Arabidopsis thaliana</i>]	Cell structure
unnamed protein product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative beta-tonoplast intrinsic protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative 3-deoxy-D-arabino-heptulosonate 7-phosphate synthase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative UDP-glycosyltransferase 85A8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
putative calmodulin-binding transcription factor [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
ribosomal protein s6 RPS6-2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
abscisic acid-inducible protein kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 8 (RNA helicase) [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
hydrolase-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative anther ethylene-upregulated protein ER1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
PREDICTED P0594D10.136 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 65	
UMP/CMP kinase b [<i>Oryza sativa</i>]	Metabolism & energy
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative UMP/CMP kinase a [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
UMP/CMP kinase a [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
ESTs AU075609(C63344), C71850(E0464), C98611(E0464) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 66	
histone acetyltransferase protein HAC108 [<i>Zea mays</i>]	Transcription
ribosomal protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative receptor-like protein kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative histone acetyltransferase [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative 4-alpha-glucanotransferase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
OSJNBa0093F16.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
acinusL protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
PREDICTED OJ1339_F05.121-1 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 67	
40S ribosomal protein S9 [<i>Catharanthus roseus</i>]	Protein synthesis, destination and storage
typical P-type R2R3 Myb protein [<i>Oryza sativa</i>]	Transcription
40S ribosomal protein S9 [<i>Triticum aestivum</i>]	Protein synthesis, destination and storage
putative myb protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
unknown [<i>Solanum tuberosum</i>]	Unknown
ribosomal protein S4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
ribosomal protein S4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
structural constituent of ribosome [<i>Arabidopsis thaliana</i>]	Protein synthesis, destination and storage

structural constituent of ribosome [<i>Arabidopsis thaliana</i>]	Protein synthesis, destination and storage
P0006C01.35 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative Sur2p: syringomycin response protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
origin recognition complex subunit 6 -like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
myb-related protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative GTP-binding protein DRG [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
PREDICTED P0506F02.119 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 68	
aleurone ribonuclease [<i>Hordeum vulgare</i>]	Transcription
CSLA7 [<i>Oryza sativa</i>]	Metabolism & energy
Integrase core domain, putative [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
P0006C01.35 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
zinc finger protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
OSJNBa0088H09.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
CSLA7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
ESTs AU075609(C63344), C71850(E0464), C98611(E0464) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 69	
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative 29 kDa ribonucleoprotein A, chloroplast precursor [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative glucanase [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
putative ribonucleoprotein [<i>Oryza sativa</i>]	Transcription
OSJNBa0088H09.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative transmembrane protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative ankyrin-kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
PREDICTED P0519E12.127 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
PREDICTED P0519E12.126 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 70	
MybHv33 [<i>Hordeum vulgare</i> subsp. vulgare]	Transcription
RAB11J [<i>Lotus corniculatus</i> var. japonicus]	Unknown
cytochrome P450 [<i>Triticum aestivum</i>]	Metabolism & energy
cytochrome P450 CYP709C1 [<i>Triticum aestivum</i>]	Metabolism & energy
no hits found	Unknown
unknown protein [<i>Arabidopsis thaliana</i>]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
DEAD box protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative myb/SANT domain protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative Rab GTP-binding protein Rab11a [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
ripening-related protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
putative pectinacetyltransferase precursor [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
Myb-like DNA-binding protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
PREDICTED P0455H11.118-1 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
myb/SANT domain protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
Putative ID 71	
plasma membrane protein 3 [<i>Leymus chinensis</i>]	Cell structure
putative kinetochore protein [<i>Hordeum vulgare</i> subsp. vulgare]	Cell structure
pyruvate dehydrogenase kinase [<i>Oryza sativa</i>]	Metabolism & energy
cytochrome P450 [<i>Triticum aestivum</i>]	Metabolism & energy
drought-induced hydrophobic protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence

cytochrome P450 CYP709C1 [<i>Triticum aestivum</i>]	Metabolism & energy
putative drought induced protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
low temperature and salt responsive protein [<i>Pennisetum glaucum</i>]	Disease/defence
no hits found	Unknown
hypothetical protein [<i>Oryza sativa</i>]	Unknown
selenium-binding protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086B14.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative low temperature and salt responsive protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
putative centromere/microtubule binding protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
RNaseP-associated protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative serine/threonine kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
pyruvate dehydrogenase kinase 1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
PREDICTED OJ1136_D11.123 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 72

peroxiredoxin [<i>Hordeum vulgare</i> subsp. vulgare]	Metabolism & energy
pyruvate dehydrogenase kinase isoform 2; PDK2 [<i>Zea mays</i>]	Signal transduction
putative peroxidase [<i>Oryza sativa</i>]	Disease/defence
1-Cys peroxiredoxin [<i>Triticum turgidum</i> subsp. durum]	Metabolism & energy
pyruvate dehydrogenase kinase [<i>Oryza sativa</i>]	Metabolism & energy
1-Cys-peroxiredoxine [<i>Triticum aestivum</i>]	Metabolism & energy
SNARE 13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
no hits found	Unknown
putative peroxidase [<i>Oryza sativa</i>]	Disease/defence
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
pyruvate dehydrogenase kinase 1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
vesicle soluble NSF attachment protein receptor-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
kinesin-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative peroxidase [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
putative peroxidase [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
TPA: class III peroxidase 44 precursor [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence

Putative ID 73

pyrrolidone carboxyl peptidase-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative heat shock factor [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
putative peroxidase [<i>Oryza sativa</i>]	Disease/defence
heat shock factor RHSF12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
no hits found	Unknown
unknown protein [<i>Arabidopsis thaliana</i>]	Unknown
EMB1624; translation initiation factor [<i>Arabidopsis thaliana</i>]	Protein synthesis, destination and storage
putative peroxidase [<i>Oryza sativa</i>]	Disease/defence
putative peroxidase [<i>Oryza sativa</i>]	Disease/defence
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative heat stress transcription factor [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
putative peroxidase [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
putative peroxidase [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
pyrrolidone carboxyl peptidase-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative eukaryotic translation initiation factor 6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative thymidylate kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative protein arginine N-methyltransferase 3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative xylulose kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
PREDICTED P0524G08.101 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
TPA: class III peroxidase 44 precursor [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
TPA: class III peroxidase 70 precursor [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence

Putative ID 74

10 kDa chaperonin [<i>Oryza sativa</i>]	Protein synthesis, destination and storage
putative transport protein particle component [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
expressed protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative calcium/calmodulin-dependent protein kinase CaMK [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
10 kDa chaperonin [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
lipase-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative RUSH-1alpha [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 75

putative esterase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
Unknown (protein for MGC:33597) [<i>Homo sapiens</i>]	Unknown
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
no hits found	Unknown
putative esterase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative esterase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative ATP synthase mitochondrial F1 complex assembly factor2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative bZIP family transcription factor [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative adapter protein ATH-55 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 76

Hypothetical protein C09H10.3 [<i>Caenorhabditis elegans</i>]	Unknown
hypothetical protein [<i>Arabidopsis thaliana</i>]	Unknown
NADH dehydrogenase [<i>Arabidopsis thaliana</i>]	Metabolism & energy
SJCHGC01665 protein [<i>Schistosoma japonicum</i>]	Unknown
retrotransposon protein, putative, Ty3-gypsy sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
inositol or phosphatidylinositol kinase/ phosphotransferase, alcohol group as acceptor [<i>Arabidopsis thaliana</i>]	Signal transduction
FMN binding/NADH dehydrogenase (ubiquinone)/ iron ion binding [<i>Arabidopsis thaliana</i>]	Metabolism & energy
putative NADH dehydrogenase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative protein phosphatase 2C (PP2C) [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

B) Rice chromosome 4 contigs bp 20,866,047 to 25,816,839

Functional group

Putative ID 1

hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
TNP2-like protein [<i>Sorghum bicolor</i>]	Transposons
ESTs AU075609(C63344),C71850(E0464),C98611(E0464)	Unknown

Putative ID 2

hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0042L16.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
COP9 [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
OSJNBa0042L16.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
chloroplast nucleoid DNA-binding protein -like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative retrotransposon polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 3

OSJNBa0042L16.7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0042L16.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

OSJNBa0042L16.13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
nicotinate phosphoribosyltransferase-like protein [<i>Medicago truncatula</i>]	Metabolism & energy
OSJNBa0042L16.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative receptor protein kinase PERK1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
40S ribosomal protein S10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
40S ribosomal protein S30-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative ribosomal protein S10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
Putative ID 4	
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
OSJNBa0084A10.11 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0084A10.13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0084A10.15 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0084A10.6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0084A10.7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 5	
unknown protein [<i>Arabidopsis thaliana</i>]	Unknown
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
protein disulfide isomerase [<i>Zea mays</i>]	Protein synthesis, destination and storage
protein disulfide isomerase [<i>Zea mays</i>]	Protein synthesis, destination and storage
hypothetical protein At4g06676 [<i>Arabidopsis thaliana</i>]	Unknown
P0028G04.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0093F16.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative alkaline/neutral invertase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
OSJNBa0084A10.16 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0088K19.7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 6	
unknown protein [<i>Arabidopsis thaliana</i>]	Unknown
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
protein disulfide isomerase [<i>Zea mays</i>]	Protein synthesis, destination and storage
protein disulfide isomerase [<i>Zea mays</i>]	Protein synthesis, destination and storage
hypothetical protein At4g06676 [<i>Arabidopsis thaliana</i>]	Unknown
P0028G04.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0093F16.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative alkaline/neutral invertase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
OSJNBa0084A10.16 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0088K19.7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 7	
ATP-NAD kinase, putative [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0086G13.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0006B20.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0006B20.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0006B20.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0006B20.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0006B20.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0006B20.11 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0006B20.13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 8	
OJ000114_01.2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OJ000114_01.6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OJ000114_01.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0006B20.13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0006B20.18 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0006B20.19 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

OSJNBa0006B20.20 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344), C71850(E0464), C98611(E0464) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 9	
OJ000114_01.6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OJ000114_01.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OJ000114_01.10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OJ000114_01.11 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OJ000114_01.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OJ000114_01.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OJ000114_01.13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OJ000114_01.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
chloroplast protein translocon component Tic40 precursor [<i>Pisum sativum</i>]	Transporters & intracellular traffic
putative gag-pol polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
retrotransposon protein, putative, Ty1-copia sub-class [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
no hits found	Unknown
no hits found	Unknown
OSJNBa0079F16.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative DDT domain-containing protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 10	
OSJNBa0064D20.9 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0064D20.11 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0064D20.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
POT family, putative [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
P0076O17.10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344),C71850(E0464),C98611(E0464)	Unknown
Putative ID 11	
ferric reductase [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
putative calmodulin-binding protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
P0704D04.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative calmodulin-binding protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
P0041A24.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
P0041A24.6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0058G03.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0058G03.7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027P08.6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 12	
putative 3-oxoacyl-[acyl-carrier-protein] synthase I, chloroplast precursor [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
LacOPZ-alpha peptide from pUC9 [<i>Cryptosporidium hominis</i>]	Unknown
P0592G05.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative 6b-interacting protein 1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027P08.9 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027P08.10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027P08.11 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027P08.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027P08.13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027P08.15 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027P08.19 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027P08.20 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027P08.20 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027P08.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [<i>Oryza sativa</i> (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 [<i>Oryza sativa</i> (japonica cultivar-group)]	Secondary metabolism
mitochondrial phosphate transporter [<i>Lotus corniculatus</i> var. japonicus]	Transporters & intracellular traffic
hypothetical protein [<i>Arabidopsis thaliana</i>]	Unknown
lipoxigenase-like protein [<i>Hordeum vulgare</i> subsp. vulgare]	Metabolism & energy
glutamate decarboxylase isozyme 1 [<i>Nicotiana tabacum</i>]	Metabolism & energy
glutamate decarboxylase isozyme 1 [<i>Nicotiana tabacum</i>]	Metabolism & energy
putative glutamate carboxylase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
At5g14040/MUA22_4 [<i>Arabidopsis thaliana</i>]	Unknown
At5g17330/MKP11_18 [<i>Arabidopsis thaliana</i>]	Unknown
putative glutamate decarboxylase 1 [<i>Triticum aestivum</i>]	Metabolism & energy
zeaxanthin epoxidase [<i>Triticum aestivum</i>]	Unknown
GAD1 [<i>Hordeum vulgare</i>]	Metabolism & energy
glutamate decarboxylase [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
glutamate decarboxylase 1 [<i>Brassica juncea</i>]	Unknown
putative glutamate decarboxylase isozyme [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative glutamate decarboxylase isozyme [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
phosphate transport protein, mitochondrial [<i>Zea mays</i>]	Transporters & intracellular traffic
OSJNBa0064H22.2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0064H22.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0064H22.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0064H22.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0064H22.6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0064H22.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0064H22.9 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0064H22.10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0064H22.11 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0064H22.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0064H22.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0064H22.16 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0064H22.17 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
mitochondrial phosphate transporter [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
mitochondrial phosphate transporter [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
Putative lipoxigenase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative glutamate decarboxylase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
Glutamate decarboxylase (GAD)	Metabolism & energy

Putative ID 14

unnamed protein product [<i>Mus musculus</i>]	Unknown
putative nucleic acid binding protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
put. histone H3 [<i>Volvox carteri</i> f. nagariensis]	Cell structure
unnamed protein product [<i>Medicago sativa</i>]	Unknown
Hypothetical protein B0035.10 [<i>Caenorhabditis elegans</i>]	Unknown
RNA Binding Protein 47 [<i>Nicotiana plumbaginifolia</i>]	Transcription
nucleic acid binding protein [<i>Nicotiana tabacum</i>]	Cell structure
Hypothetical protein CBG05841 [<i>Caenorhabditis briggsae</i>]	Unknown
unnamed protein product [<i>Tetraodon nigroviridis</i>]	Unknown
unnamed protein product [<i>Tetraodon nigroviridis</i>]	Unknown
unnamed protein product [<i>Tetraodon nigroviridis</i>]	Unknown
histone H3 (H3-1.1)	Cell structure
histone H3	Cell structure
histone H3	Cell structure
histone H3	Cell structure
disease-resistance-related protein [<i>Oryza sativa</i>]	Disease/defence
histone H3.2 protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
histone H3 – maize [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
histone H3 – [<i>Pisum sativum</i>] (tentative sequence)	Cell structure
histone H3.2, putative [<i>Arabidopsis thaliana</i>]	Cell structure
histone (his-73) [<i>Caenorhabditis elegans</i>]	Cell structure
histone H3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
PREDICTED: similar to histone protein Hist2h3c1 [<i>Rattus norvegicus</i>]	Cell structure
PREDICTED: similar to GLP_39_88222_87572 [<i>Gallus gallus</i>]	Unknown
PREDICTED: similar to histone protein Hist2h3c1 [<i>Gallus gallus</i>]	Cell structure
OSJNBa0064H22.20 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

OSJNBa0064H22.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative PrMC3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative nucleic acid binding protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
OSJNBa0086B14.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086B14.2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086B14.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086B14.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086B14.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086B14.6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086B14.7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086B14.9 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
PREDICTED: similar to H3 histone, family 3B [<i>Mus musculus</i>]	Cell structure
PREDICTED: similar to CG31613-PA [<i>Canis familiaris</i>]	Unknown
PREDICTED: similar to histone protein Hist2h3c1 [<i>Canis familiaris</i>]	Cell structure
PREDICTED: similar to histone 1, H3g [<i>Canis familiaris</i>]	Cell structure
PREDICTED: similar to HIST1H3I protein [<i>Rattus norvegicus</i>]	Cell structure
Histone H3	Cell structure

Putative ID 15

cryptochrome 1b [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
ribulose 1,5-bisphosphate carboxylase/oxygenase large subunit [<i>Trigonobalanus verticillata</i>]	Metabolism & energy
ribulose 1,5-bisphosphate carboxylase [<i>Lindenbergia</i> sp. Thulin 8079]	Metabolism & energy
ribulose-bisphosphate carboxylase large subunit [<i>Isolepis cernua</i>]	Metabolism & energy
ribulosebiphosphate carboxylase [<i>Bromus inermis</i>]	Metabolism & energy
ribulosebiphosphate carboxylase [<i>Bromus inermis</i>]	Metabolism & energy
ribulose bisphosphate carboxylase oxygenase, large subunit [<i>Dichelostemma volubile</i>]	Metabolism & energy
OSJNBa0027G07.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ribulose bisphosphate carboxylase large chain [<i>Bromus erectus</i>]	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 [<i>Worsleya rayneri</i>]	Metabolism & energy
ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit [<i>Hordeum chilense</i>]	Metabolism & energy
ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit [<i>Hordeum chilense</i>]	Metabolism & energy
ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit [<i>Hordeum vulgare</i> subsp. vulgare]	Metabolism & energy
ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit [<i>Hordeum roshevitzii</i>]	Metabolism & energy
ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit [<i>Olinia ventosa</i>]	Metabolism & energy
putative gag-pol protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit [<i>Triticum aestivum</i>]	Metabolism & energy
ribulose 1,5-bisphosphate carboxylase/oxygenase; rbcL [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
cryptochrome 2 [<i>Sorghum bicolor</i>]	Signal transduction
ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit [<i>Taeniatherum caput-medusae</i>]	Metabolism & energy
protein phosphatase 2C, putative/PP2C, putative [<i>Arabidopsis thaliana</i>]	Signal transduction
Putative ubiquitin-specific protease 3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
cryptochrome 1a [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative ubiquitin-specific protease 3 (UBP3) [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
OSJNBa0086B14.19 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086B14.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086B14.22 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086B14.23 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086B14.26 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344), C71850(E0464), C98611(E0464) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 16

OSJNBa0093P23.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
no hits found	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086B14.27 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086B14.28 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

OSJNBa0027G07.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027G07.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027G07.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027G07.27 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086O06.24 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344), C71850(E0464), C98611(E0464) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 17

OSJNBa0093P23.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027G07.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0027G07.27 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086O06.24 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344), C71850(E0464), C98611(E0464) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 18

putative dehydration stress-induced protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
unnamed protein product [<i>Secale cereale</i>]	Unknown
large ribosomal protein 23 [<i>Hordeum vulgare</i> subsp. Vulgare]	Protein synthesis, destination and storage
20 kDa protein of CP24 precursor protein [<i>Spinacia oleracea</i>]	Cell structure
SERK2 protein [<i>Zea mays</i>]	Signal transduction
somatic embryogenesis receptor-like kinase 1 [<i>Zea mays</i>]	Cell growth/division
somatic embryogenesis receptor-like kinase 2 [<i>Zea mays</i>]	Cell growth/division
chlorophyll a/b-binding protein CP24 precursor [<i>Vigna radiata</i>]	Metabolism & energy
benzothiadiazole-induced somatic embryogenesis receptor kinase 1 [<i>Oryza sativa</i> (indica cultivar-group)]	Cell growth/division
Lhcb6 protein [<i>Brassica rapa</i> subsp. pekinensis]	Metabolism & energy
no hits found	Unknown
no hits found	Unknown
chlorophyll a/b-binding protein Cab10A [<i>Lycopersicon esculentum</i>]	Metabolism & energy
chlorophyll a/b-binding protein Cab10B [<i>Lycopersicon esculentum</i>]	Metabolism & energy
RNA polymerase beta chain [<i>Triticum aestivum</i>]	Transcription
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative elicitor-inducible protein EIG-J7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
OSJNBa0006M15.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0006M15.16 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0006M15.17 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0006M15.20 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0036B21.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0036B21.6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0036B21.7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0036B21.10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0036B21.13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (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 [<i>Arabidopsis thaliana</i>]	Unknown
putative pectinesterase [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
chloroplast GAPDH (233aa) [<i>Sinapis alba</i>]	Metabolism & energy
unnamed protein product [<i>Pisum sativum</i>]	Unknown
glyceraldehyde-3-phosphate dehydrogenase [<i>Zea mays</i>]	Metabolism & energy
glyceraldehyde-3-phosphate dehydrogenase [<i>Pisum sativum</i>]	Metabolism & energy
pectin methylesterase-like protein [<i>Zea mays</i>]	Cell structure
glyceraldehyde-3-phosphate dehydrogenase [<i>Capsicum annuum</i>]	Metabolism & energy
OSJNBa0072F16.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ribulose-1,5-bisphosphate carboxylase small subunit [<i>Hordeum vulgare</i>]	Metabolism & energy
glyceraldehyde 3-phosphate dehydrogenase A subunit [<i>Arabidopsis thaliana</i>]	Metabolism & energy
glyceraldehyde 3-phosphate dehydrogenase B subunit [<i>Arabidopsis thaliana</i>]	Metabolism & energy

putative calcium-binding protein, calreticulin [<i>Arabidopsis thaliana</i>]	Signal transduction
no hits found	Unknown
no hits found	Unknown
glyceraldehyde-3-phosphate dehydrogenase (NADP) (phosphorylating) (EC 1.2.1.13)	Metabolism & energy
A, chloroplast - [<i>Nicotiana tabacum</i>] (fragment)	
glyceraldehyde-3-phosphate dehydrogenase [<i>Thermosynechococcus elongatus</i> BP-1]	Metabolism & energy
P0592G05.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative non-cell-autonomous protein pathway2; plasmodesmal receptor [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
MDR-like ABC transporter [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
OSJNBa0036B21.17 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0036B21.18 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0036B21.19 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0036B21.20 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0036B21.24 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0036B21.25 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0036B21.27 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0072F16.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0072F16.7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0079B02.13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
EST C74302(E30840) with similarity to predicted glyceraldehyde-3-phosphate	Metabolism & energy
Glyceraldehyde-3-phosphate dehydrogenase A, chloroplast precursor	Metabolism & energy
(NADP-dependent glyceraldehydephosphate dehydrogenase)	
Putative ID 20	
putative ORFX [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
GRAB2 protein [<i>Triticum</i> sp.]	Cell growth/division
hypothetical protein [<i>Hordeum vulgare</i> subsp. vulgare]	Unknown
B1358B12.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
P0592G05.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0072F16.10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0072F16.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0072F16.13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0072F16.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
MYB27 protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
ESTs AU075609(C63344), C71850(E0464), C98611(E0464) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 21	
betaine aldehyde dehydrogenase [<i>Hordeum vulgare</i>]	Disease/defence
betaine aldehyde dehydrogenase [<i>Hordeum vulgare</i> subsp. vulgare]	Disease/defence
putative receptor kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
integral membrane-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative prohibitin [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
14-3-3 protein homologue [<i>Hordeum vulgare</i> subsp. Vulgare]	Signal transduction
Hv14-3-3b [<i>Hordeum vulgare</i> subsp. vulgare]	Signal transduction
14-3-3 protein [<i>Hordeum vulgare</i>]	Signal transduction
GF14-6 [<i>Zea mays</i>]	Unknown
prohibitin [<i>Zea mays</i>]	Unknown
prohibitin [<i>Zea mays</i>]	Unknown
14-3-3 protein [<i>Triticum aestivum</i>]	Signal transduction
Integrase core domain, putative [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
no hits found	Unknown
putative 14-3-3 protein [<i>Oryza sativa</i>]	Signal transduction
OSJNBa0072F16.19 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
B1358B12.15 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
B1358B12.17 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
B1358B12.18 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
B1358B12.19 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
B1358B12.20 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
B1358B12.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

B1358B12.23 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 22	
no hits found	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0060P14.10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0060P14.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0060P14.16 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0060P14.17 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0048E02.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 23	
putative protein [<i>Arabidopsis thaliana</i>]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0048E02.13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0048E02.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0016O02.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0016O02.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0016O02.6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0016O02.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0016O02.9 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0016O02.10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Porphyromonas-type peptidyl-arginine deiminase [<i>Pseudomonas syringae</i> pv. <i>syringae</i> B728a]	Metabolism & energy
Putative ID 24	
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0016O02.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0016O02.23 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0016O02.23 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0016O02.24 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0016O02.25 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 25	
putative amino acid transporter [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
RAB-like small G-protein [<i>Hordeum vulgare</i> subsp. <i>Vulgare</i>]	Signal transduction
guanine nucleotide regulatory protein [<i>Glycine max</i>]	Metabolism & energy
DNA-binding protein WRKY1 [<i>Avena sativa</i>]	Transcription
putative amino acid transport protein AAP2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
small GTP-binding protein [<i>Triticum aestivum</i>]	Signal transduction
P0704D04.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative GTP-binding protein yptm3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative small nuclear ribonucleoprotein D1 polypeptide 16kDa; snRNP core protein D1; Sm-D autoantigen [<i>Oryza sativa</i>]	Cell structure
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
OSJNBa0089K21.2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0089K21.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0089K21.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0089K21.6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0089K21.11 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Ras-related protein Rab-2-B	Signal transduction
Putative ID 26	
protein H2B153 [<i>Triticum aestivum</i>]	Cell structure
maturase [<i>Hordeum vulgare</i> subsp. <i>spontaneum</i>]	Transcription
ndhH protein [<i>Hordeum vulgare</i> subsp. <i>vulgare</i>]	Metabolism & energy
rps 19 [<i>Secale cereale</i>]	Unknown
16S ribosomal protein [<i>Sinapis alba</i>]	Protein synthesis, destination and storage
unnamed protein product [<i>Secale cereale</i>]	Unknown
unnamed protein product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

ribosomal protein rps16 [<i>Hordeum vulgare</i>]	Protein synthesis, destination and storage
large ribosomal protein 23 [<i>Hordeum vulgare</i> subsp. vulgare]	Protein synthesis, destination and storage
rpl 2 [<i>Hordeum vulgare</i> subsp. vulgare]	Unknown
NADH dehydrogenase 27kD subunit [<i>Nicotiana tabacum</i>]	Metabolism & energy
ribosomal protein L2 [<i>Nicotiana tabacum</i>]	Protein synthesis, destination and storage
ycf1 protein [<i>Spinacia oleracea</i>]	Metabolism & energy
unnamed protein product [<i>Hordeum vulgare</i>]	Unknown
Rps16 protein [<i>Clivia nobilis</i>]	Unknown
Rps16 protein [<i>Clivia gardenii</i>]	Unknown
NADH dehydrogenase 49kDa subunit [<i>Nymphaea alba</i>]	Metabolism & energy
Ubiquitin	Protein synthesis, destination and storage
unknown [<i>Nicotiana tabacum</i>]	Unknown
S222 [<i>Triticum aestivum</i>]	Unknown
NdhC [<i>Hordeum vulgare</i>]	Unknown
ORF58 [<i>Pinus koraiensis</i>]	Unknown
ORF45b [<i>Pinus koraiensis</i>]	Unknown
Na ⁺ /H ⁺ antiporter NHX3 [<i>Zea mays</i>]	Transporters & intracellular traffic
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative NADH dehydrogenase 49 kDa protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
photosystem II D2 protein [<i>Podocarpus chinensis</i>]	Metabolism & energy
hypothetical protein [<i>Zea mays</i>]	Unknown
hypothetical protein [<i>Zea mays</i>]	Unknown
photosystem II protein K; psbK [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
putative 60S ribosomal protein L18a [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
hypothetical protein [<i>Solanum demissum</i>]	Unknown
putative DnaJ protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
unknow protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ribosomal protein L6 [<i>Triticum aestivum</i>]	Protein synthesis, destination and storage
maturase [<i>Triticum aestivum</i>]	Transcription
RNA polymerase beta'' chain [<i>Triticum aestivum</i>]	Transcription
NADH dehydrogenase subunit 3 [<i>Triticum aestivum</i>]	Metabolism & energy
ribosomal protein L22 [<i>Triticum aestivum</i>]	Protein synthesis, destination and storage
hypothetical protein CE2794 [<i>Corynebacterium efficiens</i> YS-314]	Unknown
hypothetical protein CTC00549 [<i>Clostridium tetani</i> E88]	Unknown
putative rice chloroplast ORF159 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative GPI-anchored protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative 60S ribosomal protein L6 (RPL6C) [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
OSJNBa0089K21.15 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0089K21.15 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0022F23.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0022F23.7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0086O06.24 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ORF137 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ORF137 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ORF137 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein OrniCp112 [<i>Oryza nivara</i>]	Unknown
hypothetical protein OrniCp116 [<i>Oryza nivara</i>]	Unknown
hypothetical protein Rick02001128 [<i>Rickettsia rickettsii</i>]	Unknown
hypothetical protein Avar03000173 [<i>Anabaena variabilis</i> ATCC 29413]	Unknown
conserved hypothetical protein [<i>Listeria monocytogenes</i> str. 4b H7858]	Unknown
hypothetical protein Tery02002591 [<i>Trichodesmium erythraeum</i> IMS101]	Unknown
hypothetical protein RakaH01001082 [<i>Rickettsia akari</i> str. Hartford]	Unknown
hypothetical protein Lgas02000342 [<i>Lactobacillus gasserii</i>]	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 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence

Putative ID 28

OSJNBa0022H21.11 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0022H21.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0019G23.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0022H21.17 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0022H21.18 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0022H21.20 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0044K18.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative leucine-rich protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0044K18.2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative non-phototropic hypocotyl 3 (NPH3) [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
OSJNBa0044K18.6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 29

OSJNBa0093P23.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
glycosyl transferase-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative NAD-dependent isocitrate dehydrogenase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
OSJNBa0044K18.7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0044K18.20 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0044K18.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0044K18.22 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
ESTs AU075609(C63344), C71850(E0464), C98611(E0464) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 30

eukaryotic initiation factor 4B [<i>Triticum aestivum</i>]	Transcription
OSJNBa0044K18.33 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0011N17.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0011N17.6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0011N17.7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0011N17.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0011N17.9 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 31

peptide methionine sulfoxide reductase [<i>Secale cereale</i>]	Protein synthesis, destination and storage
probable b-keto acyl reductase [<i>Hordeum vulgare</i>]	Metabolism & energy
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
MDR-like ABC transporter [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
OSJNBb0011N17.18 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0011N17.19 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0011N17.20 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0011N17.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
MDR-like ABC transporter [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic

Putative ID 32

glucose-6-phosphate dehydrogenase [<i>Triticum aestivum</i>]	Metabolism & energy
glucose-6-phosphate dehydrogenase [<i>Triticum aestivum</i>]	Metabolism & energy
glucose-6-phosphate dehydrogenase [<i>Triticum aestivum</i>]	Metabolism & energy
glucose-6-phosphate dehydrogenase [<i>Triticum aestivum</i>]	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 [<i>Oryza sativa</i> (indica cultivar-group)]	Unknown
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
putative glucose-6-phosphate dehydrogenase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative nucleotide binding protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative B' regulatory subunit of protein phosphatase [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
OSJNBa0081L15.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0081L15.15 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0081L15.16 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0081L15.17 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0081L15.18 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0081L15.19 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0081L15.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

putative B' regulatory subunit of PP2A (AtB'gamma) [*Oryza sativa* (japonica cultivar-group)]
unknown protein [*Oryza sativa* (japonica cultivar-group)]

Signal transduction
Unknown

Putative ID 33

putative ribosomal protein L37a [*Oryza sativa* (japonica cultivar-group)]
MAD2 [*Triticum aestivum*]
MAD2 [*Triticum aestivum*]
MAD2 [*Triticum aestivum*]
GAPDH [*Zea mays*]
glyceraldehyde 3-phosphate dehydrogenase [*Hordeum vulgare*]
glyceraldehyde 3-phosphate dehydrogenase [*Ranunculus acris*]
putative malate synthase [*Oryza sativa* (indica cultivar-group)]
cytosolic glyceraldehyde-3-phosphate dehydrogenase GAPC3
cytosolic glyceraldehyde-3-phosphate dehydrogenase GAPC4
cytosolic glyceraldehyde-3-phosphate dehydrogenase GAPDH [*Triticum aestivum*]
malate dehydrogenase [*Oryza sativa*]
glyceraldehyde 3-phosphate dehydrogenase [*Solanum tuberosum*]
cytosolic glyceraldehyde-3-phosphate dehydrogenase [*Triticum aestivum*]
glyceraldehyde-3-phosphate dehydrogenase [*Hordeum vulgare* subsp. spontaneum]
glyceraldehyde-3-phosphate dehydrogenase [*Hordeum vulgare* subsp. spontaneum]
glyceraldehyde-3-phosphate dehydrogenase [*Musa acuminata*]
glyceraldehyde-3-phosphate dehydrogenase [*Triticum monococcum*]
no hits found
glyceraldehyde-3-phosphate dehydrogenase (phosphorylating) (EC 1.2.1.12),
cytosolic [*Hordeum vulgare*] (fragment)
B1045D11.21 [*Oryza sativa* (japonica cultivar-group)]
hypothetical protein [*Oryza sativa* (japonica cultivar-group)]
hypothetical protein [*Oryza sativa* (japonica cultivar-group)]
putative PITSLRE alpha 2-1 [*Oryza sativa* (japonica cultivar-group)]
pr1-like protein [*Oryza sativa*]
OJ000223_09.13 [*Oryza sativa* (japonica cultivar-group)]
OJ000223_09.15 [*Oryza sativa* (japonica cultivar-group)]
OJ000223_09.17 [*Oryza sativa* (japonica cultivar-group)]
OJ991113_30.3 [*Oryza sativa* (japonica cultivar-group)]
OJ991113_30.4 [*Oryza sativa* (japonica cultivar-group)]
OJ991113_30.6 [*Oryza sativa* (japonica cultivar-group)]
OJ991113_30.7 [*Oryza sativa* (japonica cultivar-group)]
OJ991113_30.14 [*Oryza sativa* (japonica cultivar-group)]
hypothetical protein [*Oryza sativa* (japonica cultivar-group)]
PREDICTED OJ1791_B03.34 gene product [*Oryza sativa* (japonica cultivar-group)]

Protein synthesis, destination and storage
Cell growth/division
Cell growth/division
Cell growth/division
Metabolism & energy
Metabolism & energy
Metabolism & energy
Metabolism & energy
Metabolism & energy
Metabolism & energy
Metabolism & energy
Metabolism & energy
Metabolism & energy
Metabolism & energy
Metabolism & energy
Metabolism & energy
Metabolism & energy
Metabolism & energy
Metabolism & energy
Metabolism & energy
Metabolism & energy
Unknown
Unknown
Unknown
Cell growth/division
Disease/defence
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown

Putative ID 34

protoporphyrinogen IX oxidase [*Zea mays*]
MADS-box protein RMADS216 [*Oryza sativa* (japonica cultivar-group)]
Integrase core domain, putative [*Oryza sativa* (japonica cultivar-group)]
hypothetical protein [*Oryza sativa* (japonica cultivar-group)]
OJ991113_30.19 [*Oryza sativa* (japonica cultivar-group)]
OJ991113_30.24 [*Oryza sativa* (japonica cultivar-group)]
OSJNBa0084K20.5 [*Oryza sativa* (japonica cultivar-group)]
OSJNBa0084K20.6 [*Oryza sativa* (japonica cultivar-group)]
OSJNBa0088H09.1 [*Oryza sativa* (japonica cultivar-group)]

Metabolism & energy
Cell growth/division
Transposons
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown
Unknown

Putative ID 35

putative amino acid transport protein AAP2 [*Oryza sativa* (japonica cultivar-group)]
putative amino acid transporter [*Oryza sativa* (japonica cultivar-group)]
Transmembrane amino acid transporter protein [*Oryza sativa* (japonica cultivar-group)]
chlorophyll a/b-binding protein precursor [*Lemna gibba*]
Hypothetical protein [*Oryza sativa* (japonica cultivar-group)]
putative PLRR-4 polymorphic leucine-rich repeat protein [*Oryza sativa* (japonica
cultivar-group)]
OSJNBa0089K21.6 [*Oryza sativa* (japonica cultivar-group)]
OSJNBa0084K20.6 [*Oryza sativa* (japonica cultivar-group)]
OSJNBa0084K20.10 [*Oryza sativa* (japonica cultivar-group)]
OSJNBa0084K20.11 [*Oryza sativa* (japonica cultivar-group)]
OSJNBa0084K20.12 [*Oryza sativa* (japonica cultivar-group)]

Transporters & intracellular traffic
Transporters & intracellular traffic
Transporters & intracellular traffic
Metabolism & energy
Unknown
Signal transduction
Unknown
Unknown
Unknown
Unknown
Unknown

OSJNBa0084K20.13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0084K20.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0076N16.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0076N16.22 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative amino acid permease [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic

Putative ID 36

TNP2-like protein [<i>Sorghum bicolor</i>]	Transposons
putative gag-pol polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
OSJNBa0079F16.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
zinc finger protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
OSJNBa0076N16.24 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OJ990528_30.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OJ990528_30.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OJ990528_30.6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OJ990528_30.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OJ990528_30.9 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 37

chitinase II precursor [<i>Triticum aestivum</i>]	Disease/defence
chitinase IV precursor [<i>Triticum aestivum</i>]	Disease/defence
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative retrotransposon polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
P0410E03.24 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative class IV chitinase (CHIV) [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
OSJNBb0091E11.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0091E11.17 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0091E11.18 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0091E11.19 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0091E11.23 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0067K08.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 38

endo-1,4-beta-glucanase Cel1 [<i>Hordeum vulgare</i> subsp. vulgare]	Cell structure
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Arabidopsis thaliana</i>]	Unknown
Putative quinone oxidoreductase [<i>Arabidopsis thaliana</i>]	Secondary metabolism
unknown [<i>Zea mays</i>]	Unknown
unknown [<i>Zea mays</i>]	Unknown
unknown [<i>Zea mays</i>]	Unknown
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative leucine zipper-EF-hand containing transmembrane protein 1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative RNA recognition motif (RRM)-containing protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
OSJNBa0067K08.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0067K08.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0067K08.9 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0067K08.10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0067K08.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0067K08.13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0067K08.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0067K08.17 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0067K08.18 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0085C12.10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
COG2863: Cytochrome c553 [<i>Burkholderia fungorum</i> LB400]	Metabolism & energy

Putative ID 39

S-adenosylmethionine decarboxylase [<i>Triticum turgidum</i> subsp. durum x <i>Hordeum chilense</i>]	Protein synthesis, destination and storage
S-adenosylmethionine decarboxylase [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage

Hypothetical protein [<i>Arabidopsis thaliana</i>]	Unknown
hypothetical protein [<i>Oryza sativa</i> (indica cultivar-group)]	Unknown
S-adenosylmethionine decarboxylase [<i>Oryza sativa</i> (indica cultivar-group)]	Protein synthesis, destination and storage
Putative	Unknown
S-adenosylmethionine decarboxylase precursor [<i>Triticum aestivum</i>]	Secondary metabolism
CONSTANS-like protein CO5 [<i>Hordeum vulgare</i> subsp. vulgare]	Cell growth/division
CONSTANS-like protein CO6 [<i>Hordeum vulgare</i> subsp. vulgare]	Cell growth/division
CONSTANS-like protein CO6 [<i>Hordeum vulgare</i> subsp. vulgare]	Cell growth/division
CONSTANS-like protein CO7 [<i>Hordeum vulgare</i> subsp. vulgare]	Cell growth/division
CONSTANS-like protein [<i>Hordeum vulgare</i> subsp. vulgare]	Cell growth/division
S-adenosylmethionine decarboxylase uORF [<i>Daucus carota</i>]	Secondary metabolism
no hits found	Unknown
no hits found	Unknown
translation initiation factor eIF-4F isozyme form subunit p82 [<i>Triticum aestivum</i>]	Transcription
adenosylmethionine decarboxylase homolog [similarity] [<i>Oryza sativa</i>]	Secondary metabolism
S-adenosylmethionine decarboxylase 2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Secondary metabolism
putative cell division protein FtsH3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
Unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0067K08.19 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0067K08.20 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0067K08.22 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0067K08.24 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0029H02.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0029H02.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0029H02.10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0074L08.20 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Eukaryotic initiation factor (iso)4F subunit p82-34 (eIF-(iso)4F p82-34)	Transcription

Putative ID 40

hydroxyanthranilate hydroxycinnamoyltransferase 2 [<i>Avena sativa</i>]	Secondary metabolism
hydroxyanthranilate hydroxycinnamoyltransferase 3 [<i>Avena sativa</i>]	Secondary metabolism
hydroxyanthranilate hydroxycinnamoyltransferase 4 [<i>Avena sativa</i>]	Secondary metabolism
magnesium transporter CorA-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
40S ribosomal protein S11 [<i>Euphorbia esula</i>]	Protein synthesis, destination and storage
ribosome protein L23a [<i>Daucus carota</i>]	Protein synthesis, destination and storage
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative 60S ribosomal protein L23A [<i>Oryza sativa</i> (japonica cultivar-group)]	Protein synthesis, destination and storage
putative retrotransposon polyprotein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
potassium channel tetramerisation domain-containing protein-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
OSJNBa0029H02.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0029H02.16 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0029H02.17 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0029H02.18 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0029H02.19 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0029H02.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0029H02.22 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0029H02.25 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative 40S ribosomal protein S11 [<i>Oryza sativa</i> (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) predicted to be hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 42	
hypothetical protein [<i>Nicotiana tabacum</i>]	Unknown
hypothetical protein [<i>Oenothera elata</i> subsp. hookeri]	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. enterica serovar Choleraesuis str. SC-B67]	Unknown
hypothetical protein SC4058 [<i>Salmonella enterica</i> subsp. enterica 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 1 [<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 [<i>Hordeum vulgare</i>]	Cell structure
ammonium transporter [<i>Triticum aestivum</i>]	Transporters & intracellular traffic
ammonium transporter Amt1;1 [<i>Triticum aestivum</i>]	Transporters & intracellular traffic
ammonium transporter Amt1;2 [<i>Triticum aestivum</i>]	Transporters & intracellular traffic
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative ammonium transporter 1-3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Transporters & intracellular traffic
putative LEUNIG [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
OSJNBb0065L13.11 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0065L13.12 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

OSJNBb0065L13.13 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0065L13.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0004N05.7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0004N05.9 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 46	
ATPase subunit a [<i>Zea mays</i>]	Metabolism & energy
putative protein [<i>Arabidopsis thaliana</i>]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative CER1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
ATPase subunit IV [<i>Lactuca sativa</i>]	Metabolism & energy
ATP synthase CF0 A chain [<i>Triticum aestivum</i>]	Metabolism & energy
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative CER1 protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0004N05.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0004N05.16 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0004N05.17 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0004N05.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0004N05.24 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0004N05.25 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein Tery02002584 [<i>Trichodesmium erythraeum</i> IMS101]	Unknown
Putative ID 47	
glycoprotein [<i>Bromus inermis</i>]	Cell structure
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative RPS2 [<i>Oryza sativa</i> (japonica cultivar-group)]	Disease/defence
root abundant protein [<i>Triticum aestivum</i>]	Unknown
NBS-LRR type disease resistance protein O1 [<i>Avena sativa</i>]	Disease/defence
NBS-LRR type disease resistance protein O2 [<i>Avena sativa</i>]	Disease/defence
NBS-LRR type disease resistance protein [<i>Poncirus trifoliata</i>]	Disease/defence
NBS-LRR type resistance protein [<i>Hordeum vulgare</i>] (fragment)	Disease/defence
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0093F16.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
XTP3-transactivated protein A-like [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative protein kinase (ADK1) [<i>Oryza sativa</i> (japonica cultivar-group)]	Signal transduction
putative hydroxyproline-rich glycoprotein 1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell structure
putative NAC domain protein NAC1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
OSJNBb0070J16.4 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0070J16.6 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
Putative ID 48	
unknown protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
myb4 transcription factor [<i>Hordeum vulgare</i> subsp. vulgare]	Transcription
putative transcription factor (MYB4) [<i>Arabidopsis thaliana</i>]	Transcription
TNP2-like protein [<i>Sorghum bicolor</i>]	Transposons
phosphoenolpyruvate carboxylase kinase [<i>Sorghum bicolor</i>]	Metabolism & energy
unknown [<i>Arabidopsis thaliana</i>]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
MADS-box protein RMADS216 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
transcription factor Myb2 [<i>Triticum aestivum</i>]	Transcription
Integrase core domain, putative [<i>Oryza sativa</i> (japonica cultivar-group)]	Transposons
P0592G05.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0093F16.8 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative myb protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Transcription
putative glycogenin 1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
putative phosphoenolpyruvate carboxylase kinase [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
OSJNBb0072M01.18 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0073E02.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0073E02.7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0088H09.1 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 49

phenylalanine ammonia-lyase [<i>Phyllostachys edulis</i>]	Secondary metabolism
phenylalanine ammonia-lyase [<i>Oryza sativa</i> (indica cultivar-group)]	Secondary metabolism
phenylalanine ammonia-lyase [<i>Triticum aestivum</i>]	Secondary metabolism
phenylalanine ammonia-lyase [<i>Triticum aestivum</i>]	Secondary metabolism
phenylalanine ammonia-lyase [<i>Hordeum vulgare</i> subsp. vulgare]	Secondary metabolism
phenylalanine ammonia-lyase [<i>Hordeum vulgare</i> subsp. vulgare]	Secondary metabolism
phenylalanine ammonia-lyase [<i>Hordeum vulgare</i> subsp. vulgare]	Secondary metabolism
OSJNBb0061C13.7 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
inducible phenylalanine ammonia-lyase [<i>Triticum aestivum</i>]	Secondary metabolism
phenylalanine ammonia-lyase [<i>Zea mays</i>]	Secondary metabolism
adenosine kinase-like protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Metabolism & energy
phenylalanine ammonia-lyase [<i>Bambusa oldhamii</i>]	Secondary metabolism
putative phenylalanine ammonia-lyase [<i>Bambusa ventricose</i>]	Secondary metabolism
no hits found	Unknown
phenylalanine ammonia-lyase (EC 4.3.1.5) [<i>Oryza sativa</i>]	Secondary metabolism
probable phenylalanine ammonia-lyase (EC 4.3.1.5) wali4 [<i>Triticum aestivum</i>] (fragment)	Secondary metabolism
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
P0704D04.3 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
B1045D11.21 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
hypothetical protein [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative phenylalanine ammonia-lyase [<i>Oryza sativa</i> (japonica cultivar-group)]	Secondary metabolism
putative phenylalanine ammonia-lyase [<i>Oryza sativa</i> (japonica cultivar-group)]	Secondary metabolism
putative phenylalanine ammonia-lyase [<i>Oryza sativa</i> (japonica cultivar-group)]	Secondary metabolism
pr1-like protein [<i>Oryza sativa</i>]	Disease/defence
OSJNBa0073E02.14 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0073E02.18 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
putative phenylalanine ammonia-lyase (EC 4.3.1.5) [<i>Oryza sativa</i> (japonica cultivar-group)]	Secondary metabolism
PREDICTED B1215B07.34 gene product [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown

Putative ID 50

putative auxin response factor 10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
putative auxin response factor 10 [<i>Oryza sativa</i> (japonica cultivar-group)]	Cell growth/division
OSJNBb0061C13.15 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBb0061C13.16 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
OSJNBa0019D11.5 [<i>Oryza sativa</i> (japonica cultivar-group)]	Unknown
