two- component signal transduction system (phosphorelay)
transition metal ion transport
response to stress
response to stimulus
response to oxidative stress
response to organic substance
response to hormone stimulus
response to endogenous stimulus
response to chemical stimulus
response to blue light
response to biotic stimulus
response to auxin stimulus
regulation of photosynthesis, light reaction
regulation of photosynthesis
regulation of generation of precursor metabolites and energy
regulation of biological quality
pyruvate transport
purine base metabolic process
purine base biosynthetic process
proton transport
protein modification process
protein amino acid phosphorylation
post- translational protein modification
polysaccharide metabolic process
polyol metabolic process
polyol biosynthetic process
phototropism
photosystem II stabilization
photosynthesis, light reaction
photosynthesis, light harvesting
photosynthesis
phosphorylation
phosphorus metabolic process
phosphate metabolic process
oxidation reduction
organic ether metabolic process
organic anion transport
nucleobase, nucleoside, nucleotide and nucleic acid metabolic process
nucleic acid metabolic process
monovalent inorganic cation transport
monocarboxylic acid transport
monocarboxylic acid metabolic process
mitochondrial pyruvate transport
macromolecule modification
macromolecule metabolic process
iron ion transport
iron ion transmembrane transport
iron ion homeostasis
ion transport
ion transmembrane transport
inositol metabolic process
inositol biosynthetic process
hydrogen transport
homeostatic process
glycerol ether metabolic process
glutamine biosynthetic process
generation of precursor metabolites and energy
fatty acid metabolic process
fatty acid biosynthetic process
energy coupled proton transport, against electrochemical gradient
DNA replication
DNA metabolic process
di- , tri- valent inorganic cation transport
di- , tri- valent inorganic cation homeostasis
defense response
cell wall organization or biogenesis
cellular macromolecule metabolic process
cellular iron ion homeostasis
cellular homeostasis
cellular di- , tri- valent inorganic cation homeostasis
cellular cation homeostasis
cell redox homeostasis
cell proliferation
cation transport
carbohydrate metabolic process
carbohydrate catabolic process
ATP hydrolysis coupled proton transport
alcohol metabolic process
alcohol biosynthetic process

BP

thylakoid part
thylakoid membrane
thylakoid
proton- transporting V- type ATPase, V1 domain
proton- transporting V- type ATPase complex
proton- transporting two- sector ATPase complex, proton- transporting domain
proton- transporting two- sector ATPase complex, catalytic domain
proton- transporting two- sector ATPase complex
photosystem I reaction center
photosystem II
photosystem I
photosystem
photosynthetic membrane
oxygen evolving complex
membrane part
membrane
extrinsic to membrane
extracellular region part
extracellular region
extracellular matrix
external encapsulating structure
cell wall
apoplast

CC

xyloglucan:xyloglucosyl transferase activity
two- component sensor activity
transporter activity
transmembrane transporter activity
transition metal ion transmembrane transporter activity
transition metal ion binding
transferase activity, transferring phosphorus- containing groups
transferase activity, transferring aldehyde or ketonic groups
transferase activity, transferring acyl groups other than amino- acyl groups
transferase activity, transferring acyl groups
transferase activity
transcription regulator activity
transcription factor binding
transcription factor activity
transcription cofactor activity
tetrapyrrole binding
sulfotransferase activity
substrate- specific transmembrane transporter activity
RNA polymerase activity
ribonucleotide binding
receptor binding
quinolinate synthetase A activity
pyruvate, phosphate dikinase activity
purine ribonucleotide binding
purine nucleotide binding
purine nucleoside binding
protein kinase activity
protein histidine kinase activity
protein disulfide oxidoreductase activity
plastoquinol- plastocyanin reductase activity
phosphotransferase activity, paired acceptors
phosphotransferase activity, nitrogenous group as acceptor
phosphotransferase activity, alcohol group as acceptor
phosphoric ester hydrolase activity
phosphoribosylamine- glycine ligase activity
phosphatase activity
peroxidase activity
pectinesterase activity
oxygen binding
oxidoreductase activity, acting on sulfur group of donors
oxidoreductase activity, acting on peroxide as acceptor
oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen
oxidoreductase activity, acting on iron- sulfur proteins as donors
oxidoreductase activity
nucleotidyltransferase activity
nucleotide binding
nucleoside binding
NAD+ ADP- ribosyltransferase activity
N- acyltransferase activity
N- acetyltransferase activity
monovalent inorganic cation transmembrane transporter activity
metalloendopeptidase activity
metal ion binding
metal cluster binding
magnesium ion binding
lysine N- acetyltransferase activity
kinase activity
iron- sulfur cluster binding
iron ion transmembrane transporter activity
iron ion binding
ion transmembrane transporter activity
ion binding
intramolecular transferase activity, phosphotransferases
intramolecular lyase activity
inositol- 3- phosphate synthase activity
inorganic cation transmembrane transporter activity
hydrolase activity, hydrolyzing O- glycosyl compounds
hydrolase activity, acting on glycosyl bonds
hydrogen ion transmembrane transporter activity
histone acetyltransferase activity
heme binding
growth factor activity
glycogen phosphorylase activity
glutamate- ammonia ligase activity
fructose- bisphosphate aldolase activity
fructose 1,6- bisphosphate 1- phosphatase activity
ferric iron binding
enzyme inhibitor activity
endopeptidase activity
DNA- directed RNA polymerase activity
disulfide oxidoreductase activity
cation transmembrane transporter activity
cation binding
catalytic activity
carbonate dehydratase activity
carbohydrate phosphatase activity
calcium ion binding
calcium- dependent phospholipid binding
binding
beta- amylase activity
ATP binding
antioxidant activity
amylase activity
ammonia ligase activity
aldehyde- lyase activity
ADP binding
adenyl ribonucleotide binding
adenyl nucleotide binding
acyltransferase activity
acid- ammonia (or amide) ligase activity
acetyltransferase activity
1- deoxy- D- xylulose- 5- phosphate synthase activity

MF

Dawn_Down
Dawn_Up
Dusk_Down
Dusk_Up
Dawn_Down
Dawn_Up
Dusk_Down
Root
Leaf

- $\log_{10}$(pvalue)
20
15
10
5

count
100
200
300