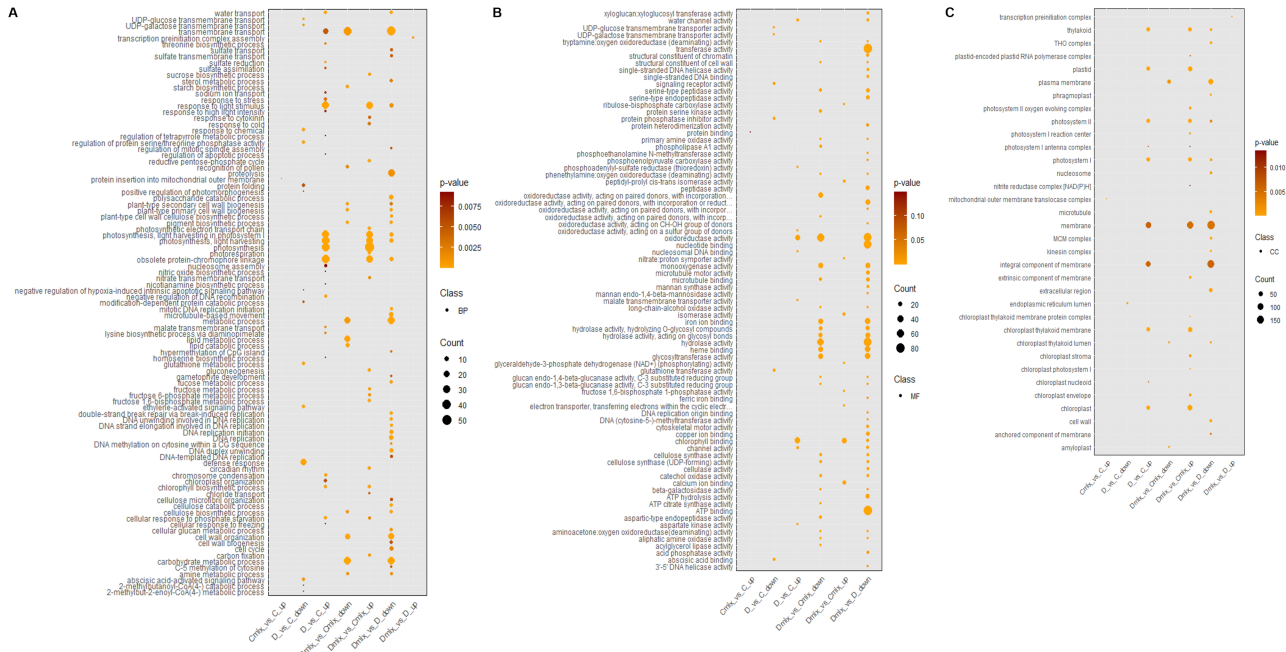
A
water transport
UDP-glucose transmembrane transport
UDP-galactose transmembrane transport
transmembrane transport
transcription preinitiation complex assembly
threonine biosynthetic process
sulfate transport
sulfate transmembrane transport
sulfate reduction
sulfate assimilation
sucrose biosynthetic process
sterol metabolic process
starch biosynthetic process
sodium ion transport
response to stress
response to high light intensity
response to hydrogen peroxide
response to cold
response to chemical
regulation of tetrapyrrole metabolic process
regulation of protein serine/threonine phosphatase activity
regulation of mitotic spindle assembly
regulation of apoptotic process
reductive pentose-phosphate cycle
recognition of pollen
protein folding
protein insertion into mitochondrial outer membrane
positive regulation of photomorphogenesis
polysaccharide catabolic process
plant-type secondary cell wall biogenesis
plant-type primary cell wall biogenesis
plant-type cell wall cellulose biosynthetic process
photosynthetic electron transport chain
photosynthesis, light harvesting in photosystem I
photosynthesis, light harvesting
photosynthesis
photorespiration
obsolete protein-chromophore linkage
nucleosome assembly
nitric oxide biosynthetic process
nitrate transmembrane transport
nicotinamide biosynthetic process
negative regulation of hypoxia-induced intrinsic apoptotic signaling pathway
negative regulation of DNA recombination
modification-dependent protein catabolic process
mitotic DNA replication initiation
microtubule-based movement
metabolic process
malate transmembrane transport
lysine biosynthetic process via diaminopimelate
lipid metabolic process
lipid catabolic process
hypermethylation of CpG island
homoserine biosynthetic process
glutathione metabolic process
glycolysis
gametophyte development
fucose metabolic process
fructose metabolic process
fructose 6-phosphate metabolic process
fructose 1,6-bisphosphate metabolic process
ethylene-activated signaling pathway
double-strand break repair via break-induced replication
DNA unwinding involved in DNA replication
DNA strand elongation involved in DNA replication
DNA replication initiation
DNA replication
DNA methylation on cytosine within a CG sequence
DNA duplex unwinding
DNA-templated DNA replication
defense response
circadian rhythm
chromosome condensation
chlorophyll biosynthetic process
chlorophyll biosynthetic process
chloride transport
cellulose microfibril organization
cellulose catabolic process
cellulose biosynthetic process
cellular response to phosphate starvation
cellular response to cold
cellular glucan metabolic process
cell wall organization
cell wall biogenesis
cell cycle
carbon fixation
carbohydrate metabolic process
C-5 methylation of cytosine
amine metabolic process
abscisic acid-activated signaling pathway
2-methylbutanoyl-CoA(4-) metabolic process
2-methylbut-2-enoyl-CoA(4-) metabolic process
DnfrKo_vs_C_UP
D_vs_C_down
D_vs_C_UP
DnfrKo_vs_DnfrKo_down
DnfrKo_vs_DnfrKo_UP
DnfrKo_vs_D_down
DnfrKo_vs_D_UP
p-value
0.0075
0.0050
0.0025
Class
BP
Count
10
20
30
40
50
B
xyloglucan:xyloglucosyl transferase activity
water channel activity
UDP-glucose transmembrane transporter activity
UDP-galactose transmembrane transporter activity
tryptamine:oxygen oxidoreductase (deaminating) activity
transferase activity
structural constituent of chromatin
structural constituent of cell wall
single-stranded DNA helicase activity
single-stranded DNA binding
signaling receptor activity
serine-type peptidase activity
serine-type endopeptidase activity
ribulose-bisphosphate carboxylase activity
protein serine kinase activity
protein phosphatase inhibitor activity
protein heterodimerization activity
protein binding
primary amine oxidase activity
phosphoethanolamine N-methyltransferase activity
phosphoenolpyruvate carboxylase activity
phosphoadenylyl-sulfate reductase (thioredoxin) activity
phenylethylamine:oxygen oxidoreductase (deaminating) activity
peptidyl-prolyl cis-trans isomerase activity
peptidase activity
oxidoreductase activity, acting on paired donors, with incorporation...
oxidoreductase activity, acting on paired donors, with incorporation or reduct...
oxidoreductase activity, acting on paired donors, with incorpor...
oxidoreductase activity, acting on paired donors, with incorp...
oxidoreductase activity, acting on CH-OH group of donors
oxidoreductase activity, acting on a sulfur group of donors
oxidoreductase activity
nucleotide binding
nucleosomal DNA binding
nitrate proton symporter activity
monooxygenase activity
microtubule motor activity
microtubule binding
mannan synthase activity
mannan endo-1,4-beta-mannosidase activity
malate transmembrane transporter activity
long-chain-alcohol oxidase activity
isomerase activity
iron ion binding
hydrolase activity, hydrolyzing O-glycosyl compounds
hydrolase activity, acting on glycosyl bonds
hydrolase activity
heme binding
glycosyltransferase activity
glyceraldehyde-3-phosphate dehydrogenase (NAD+) (phosphorylating) activity
glutathione transferase activity
glucan endo-1,4-beta-glucanase activity, C-3 substituted reducing group
glucan endo-1,3-beta-glucanase activity, C-3 substituted reducing group
fructose 1,6-bisphosphate 1-phosphatase activity
ferric iron binding
electron transporter, transferring electrons within the cyclic electr...
DNA replication origin binding
DNA (cytosine-5-)-methyltransferase activity
cytoskeletal motor activity
copper ion binding
chlorophyll binding
channel activity
cellulose synthase activity
cellulose synthase (UDP-forming) activity
cellulase activity
catechol oxidase activity
calcium ion binding
beta-galactosidase activity
ATP hydrolysis activity
ATP citrate synthase activity
ATP binding
aspartic-type endopeptidase activity
aspartate kinase activity
aminoacetone:oxygen oxidoreductase(deaminating) activity
aliphatic amine oxidase activity
acylglycerol lipase activity
acid phosphatase activity
abscisic acid binding
3'-5' DNA helicase activity
DnfrKo_vs_C_UP
D_vs_C_down
D_vs_C_UP
DnfrKo_vs_DnfrKo_down
DnfrKo_vs_DnfrKo_UP
DnfrKo_vs_D_down
DnfrKo_vs_D_UP
p-value
0.10
0.05
Count
20
40
60
80
Class
MF
C
transcription preinitiation complex
thylakoid
THO complex
plastid-encoded plastid RNA polymerase complex
plastid
plasma membrane
phragmoplast
photosystem II oxygen evolving complex
photosystem II
photosystem I reaction center
photosystem I antenna complex
photosystem I
nucleosome
nitrite reductase complex [NAD(P)H]
mitochondrial outer membrane translocase complex
microtubule
membrane
MCM complex
kinesin complex
integral component of membrane
extrinsic component of membrane
extracellular region
endoplasmic reticulum lumen
chloroplast thylakoid membrane protein complex
chloroplast thylakoid membrane
chloroplast thylakoid lumen
chloroplast stroma
chloroplast photosystem I
chloroplast nucleoid
chloroplast envelope
chloroplast
cell wall
anchored component of membrane
amyloplast
DnfrKo_vs_C_UP
D_vs_C_down
D_vs_C_UP
DnfrKo_vs_DnfrKo_down
DnfrKo_vs_DnfrKo_UP
DnfrKo_vs_D_down
DnfrKo_vs_D_UP
p-value
0.010
0.005
Class
CC
Count
50
100
150