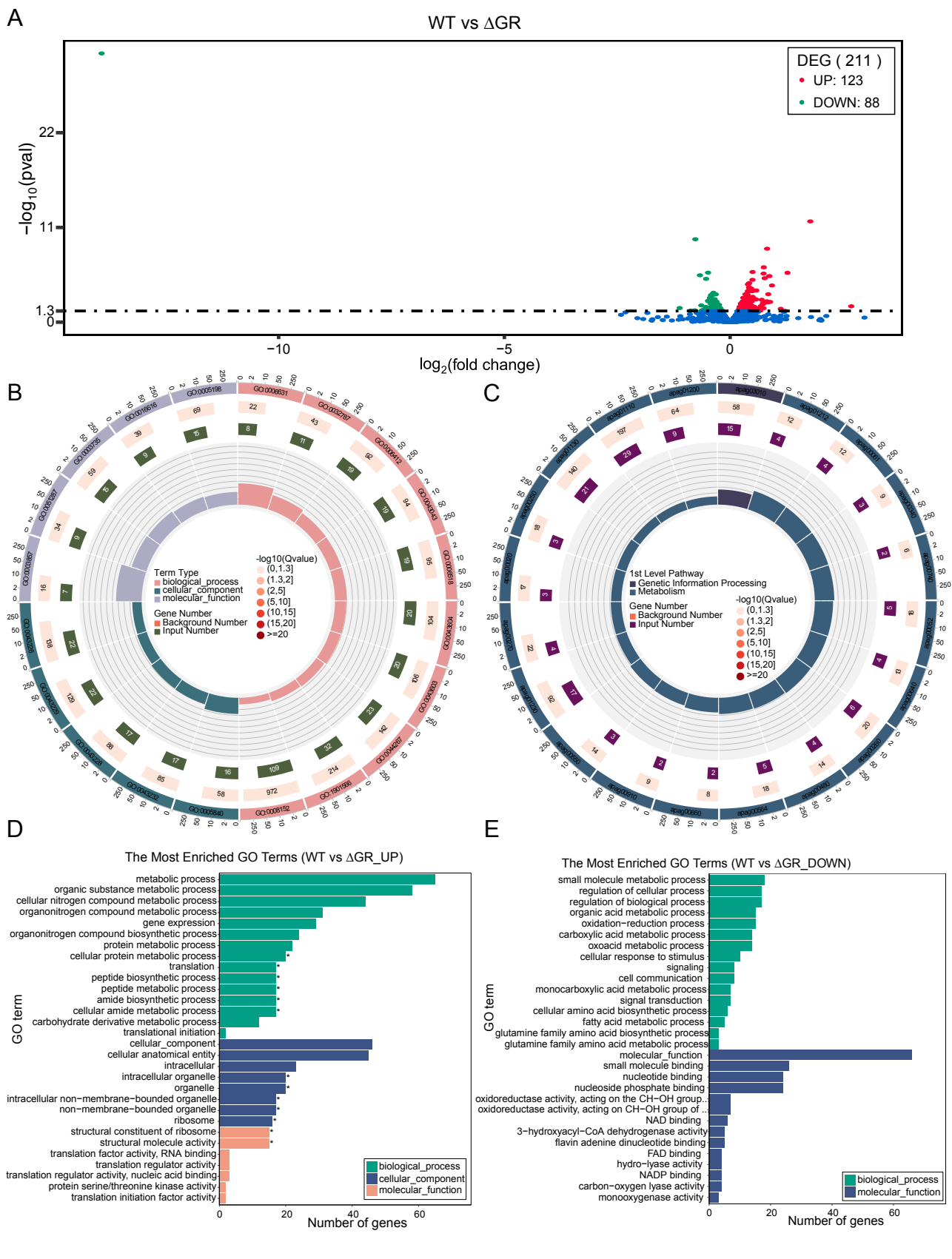
A
WT vs ΔGR
DEG (211)
UP: 123
DOWN: 88
−log10(pval)
22
11
1.3
0
−10
−5
0
log2(fold change)
B
Term Type
biological_process
cellular_component
molecular_function
Gene Number
Background Number
Input Number
-log10(Qvalue)
(0,1.3]
(1.3,2]
(2,5]
(5,10]
(10,15]
(15,20]
>=20
C
1st Level Pathway
Genetic Information Processing
Metabolism
Gene Number
Background Number
Input Number
-log10(Qvalue)
(0,1.3]
(1.3,2]
(2,5]
(5,10]
(10,15]
(15,20]
>=20
D
The Most Enriched GO Terms (WT vs ΔGR_UP)
metabolic process
organic substance metabolic process
cellular nitrogen compound metabolic process
organonitrogen compound metabolic process
gene expression
organonitrogen compound biosynthetic process
protein metabolic process
cellular protein metabolic process
translation
peptide biosynthetic process
peptide metabolic process
amide biosynthetic process
cellular amide metabolic process
carbohydrate derivative metabolic process
translational initiation
cellular_component
cellular anatomical entity
intracellular
intracellular organelle
organelle
intracellular non−membrane−bounded organelle
non−membrane−bounded organelle
ribosome
structural constituent of ribosome
structural molecule activity
translation factor activity, RNA binding
translation regulator activity
translation regulator activity, nucleic acid binding
protein serine/threonine kinase activity
translation initiation factor activity
GO term
biological_process
cellular_component
molecular_function
0
20
40
60
Number of genes
E
The Most Enriched GO Terms (WT vs ΔGR_DOWN)
small molecule metabolic process
regulation of cellular process
regulation of biological process
organic acid metabolic process
oxidation−reduction process
carboxylic acid metabolic process
oxoacid metabolic process
cellular response to stimulus
signaling
cell communication
monocarboxylic acid metabolic process
signal transduction
cellular amino acid biosynthetic process
fatty acid metabolic process
glutamine family amino acid biosynthetic process
glutamine family amino acid metabolic process
molecular_function
small molecule binding
nucleotide binding
nucleoside phosphate binding
oxidoreductase activity, acting on the CH−OH group...
oxidoreductase activity, acting on CH−OH group of ...
NAD binding
3−hydroxyacyl−CoA dehydrogenase activity
flavin adenine dinucleotide binding
FAD binding
hydro−lyase activity
NADP binding
carbon−oxygen lyase activity
monooxygenase activity
GO term
biological_process
molecular_function
0
20
40
60
Number of genes