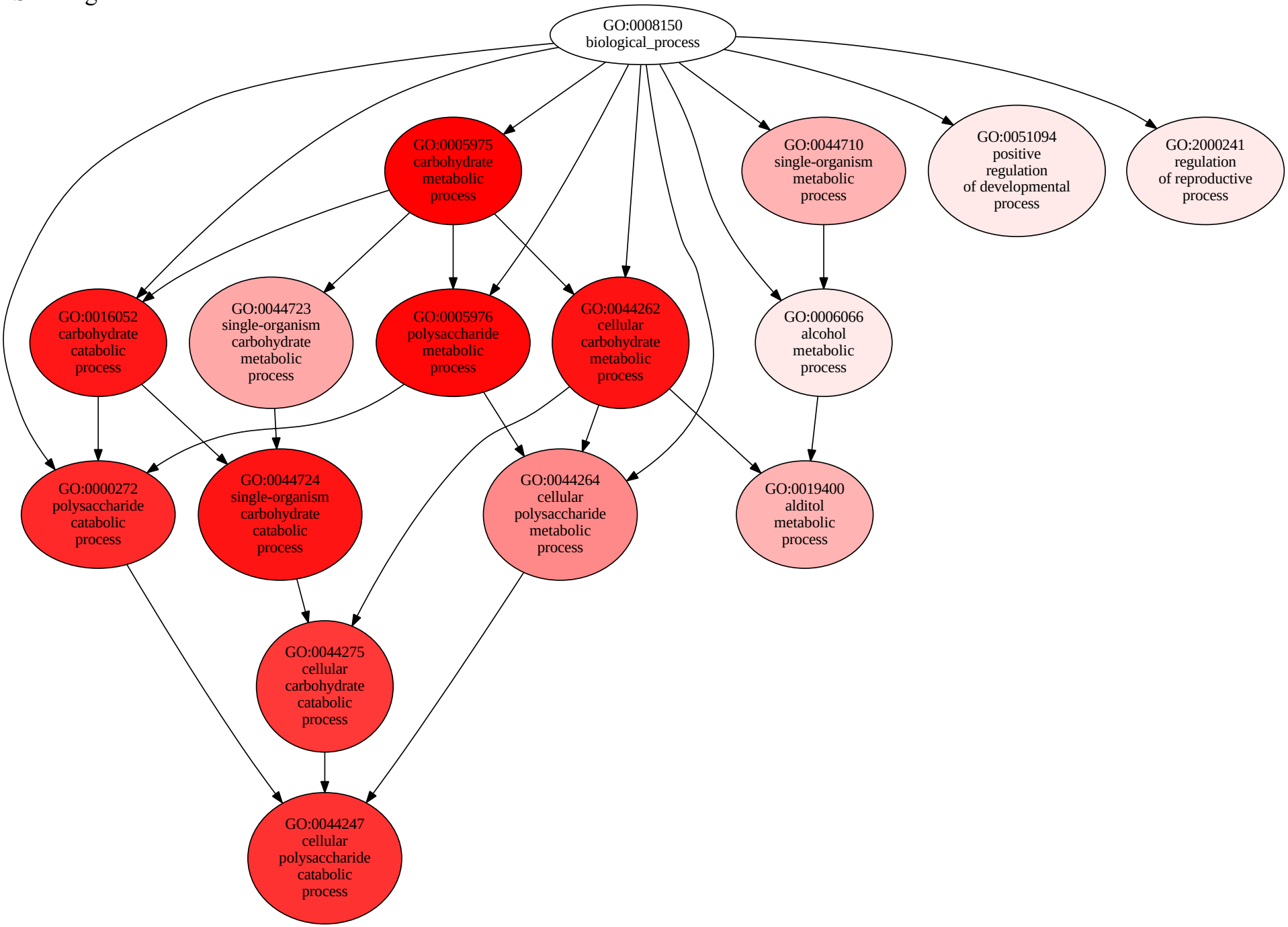
S4A Fig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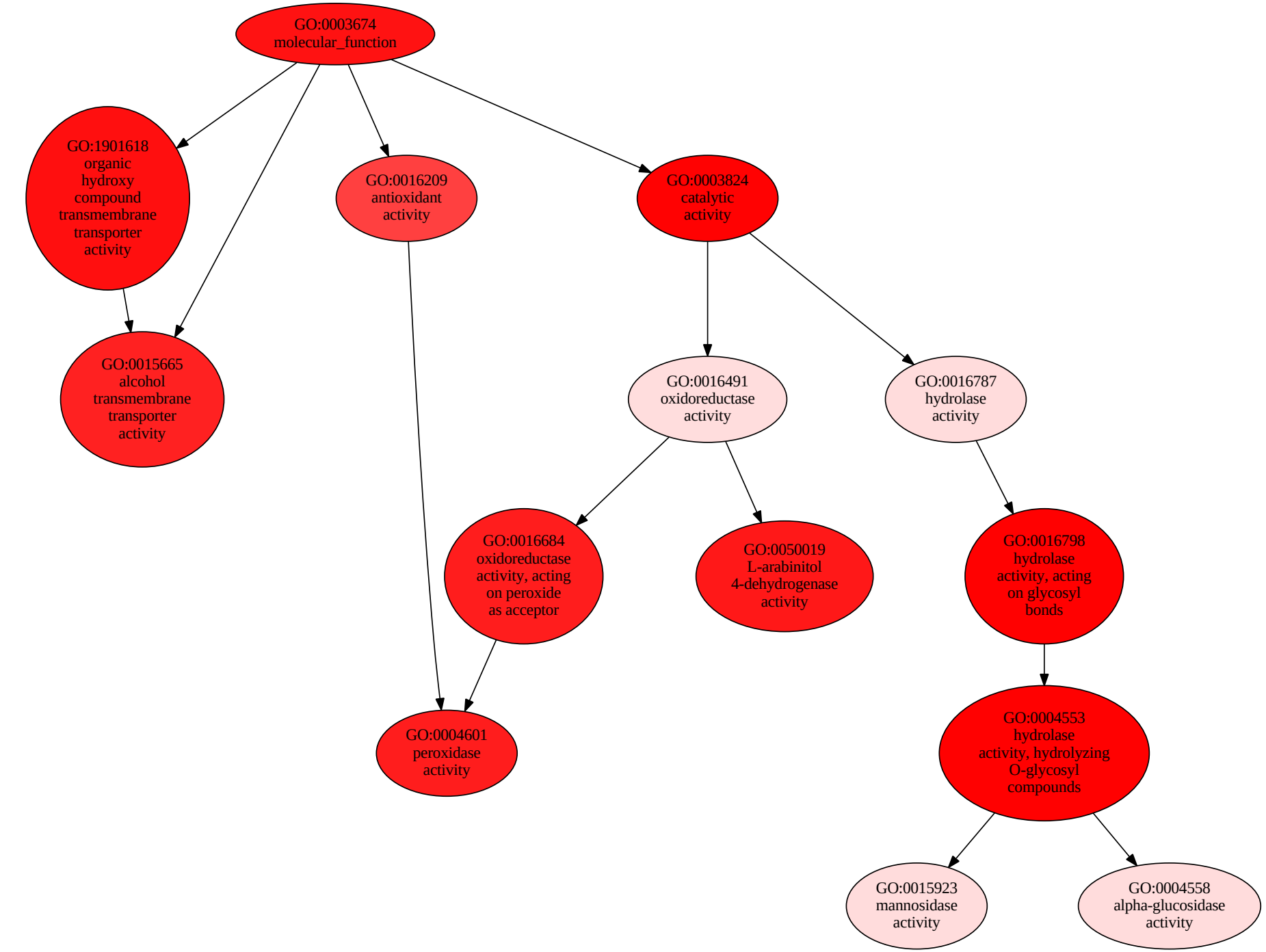
biological_process
GO:0005975
carbohydrate
metabolic
process
GO:0044710
single-organism
metabolic
process
GO:0051094
positive
regulation
of developmental
process
GO:2000241
regulation
of reproductive
process
GO:0016052
carbohydrate
catabolic
process
GO:0044723
single-organism
carbohydrate
metabolic
process
GO:0005976
polysaccharide
metabolic
process
GO:0044262
cellular
carbohydrate
metabolic
process
GO:0006066
alcohol
metabolic
process
GO:0000272
polysaccharide
catabolic
process
GO:0044724
single-organism
carbohydrate
catabolic
process
GO:0044264
cellular
polysaccharide
metabolic
process
GO:0019400
alditol
metabolic
process
GO:0044275
cellular
carbohydrate
catabolic
process
GO:0044247
cellular
polysaccharide
catabolic
process

S4B Fig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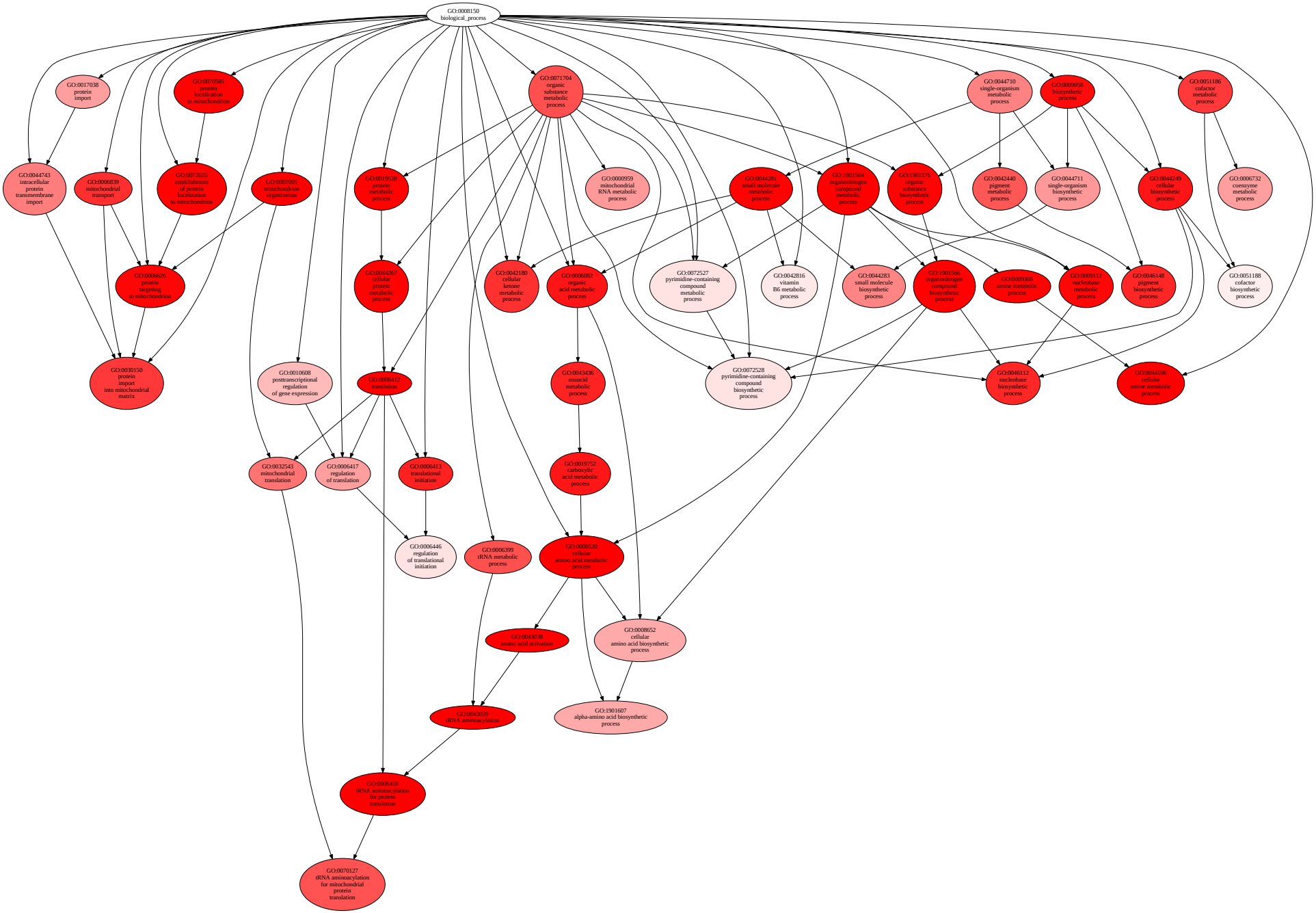
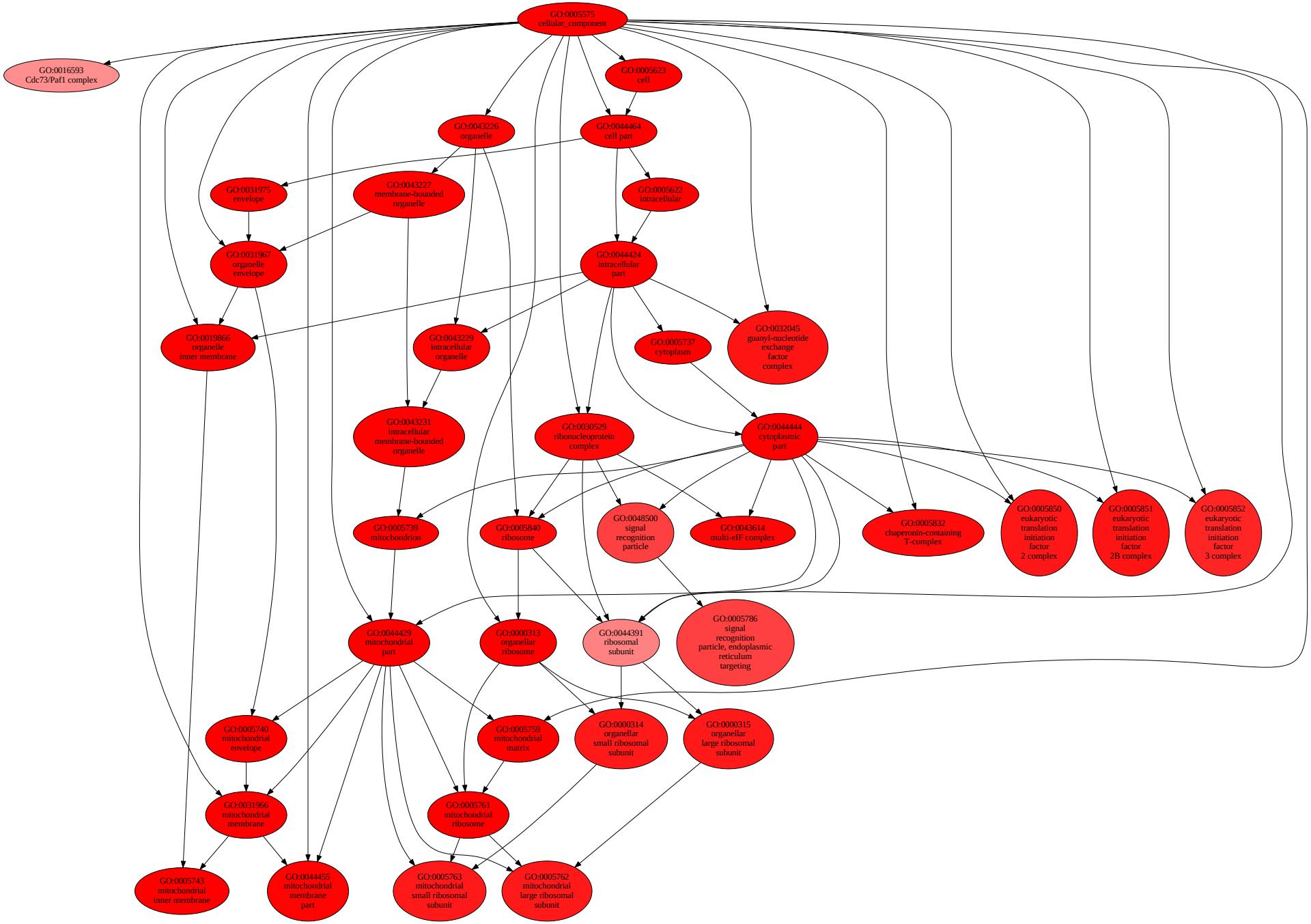
molecular_function
GO:1901618
organic
hydroxy
compound
transmembrane
transporter
activity
GO:0016209
antioxidant
activity
GO:0003824
catalytic
activity
GO:0015665
alcohol
transmembrane
transporter
activity
GO:0016491
oxidoreductase
activity
GO:0016787
hydrolase
activity
GO:0016684
oxidoreductase
activity, acting
on peroxide
as acceptor
GO:0050019
L-arabinitol
4-dehydrogenase
activity
GO:0016798
hydrolase
activity, acting
on glycosyl
bonds
GO:0004601
peroxidase
activity
GO:0004553
hydrolase
activity, hydrolyzing
O-glycosyl
compounds
GO:0015923
mannosidase
activity
GO:0004558
alpha-glucosidase
activity

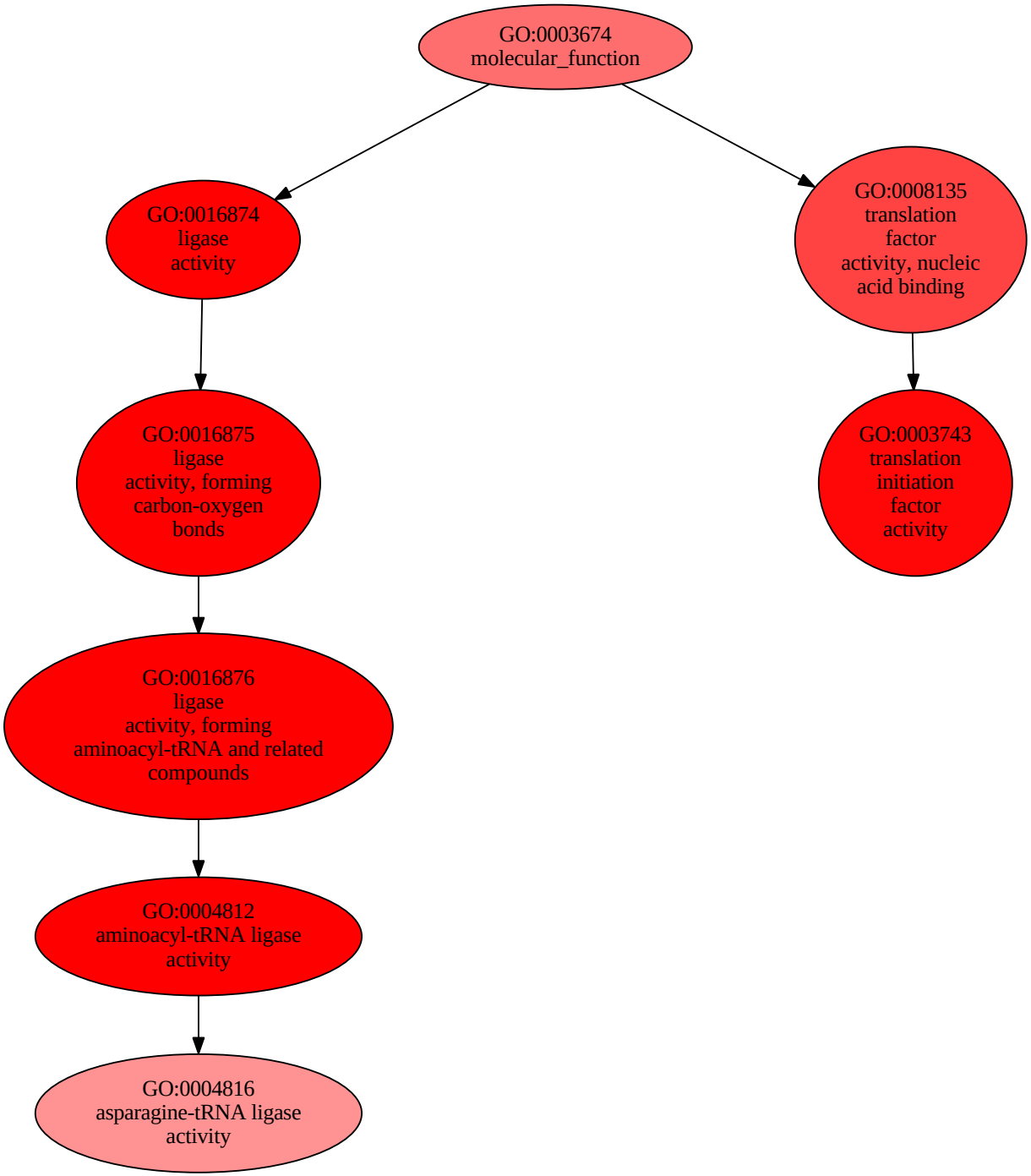
S4C Fig


GO:0008150
biological_process
GO:0017038
protein
import
GO:0070585
protein
localization
to mitochondrion
GO:0071704
organic
substance
metabolic
process
GO:0044710
single-organism
metabolic
process
GO:0009058
biosynthetic
process
GO:0051186
cofactor
metabolic
process
GO:0044743
intracellular
protein
transmembrane
import
GO:0006839
mitochondrial
transport
GO:0072655
establishment
of protein
localization
to mitochondrion
GO:0007005
mitochondrion
organization
GO:0019538
protein
metabolic
process
GO:0000959
mitochondrial
RNA metabolic
process
GO:0044281
small molecule
metabolic
process
GO:1901564
organonitrogen
compound
metabolic
process
GO:1901576
organic
substance
biosynthetic
process
GO:0042440
pigment
metabolic
process
GO:0044711
single-organism
biosynthetic
process
GO:0044249
cellular
biosynthetic
process
GO:0006732
coenzyme
metabolic
process
GO:0006626
protein
targeting
to mitochondrion
GO:0044267
cellular
protein
metabolic
process
GO:0042180
cellular
ketone
metabolic
process
GO:0006082
organic
acid metabolic
process
GO:0072527
pyrimidine-containing
compound
metabolic
process
GO:0042816
vitamin
B6 metabolic
process
GO:0044283
small molecule
biosynthetic
process
GO:1901566
organonitrogen
compound
biosynthetic
process
GO:0009308
amine metabolic
process
GO:0009112
nucleobase
metabolic
process
GO:0046148
pigment
biosynthetic
process
GO:0051188
cofactor
biosynthetic
process
GO:0030150
protein
import
into mitochondrial
matrix
GO:0010608
posttranscriptional
regulation
of gene expression
GO:0006412
translation
GO:0043436
oxoacid
metabolic
process
GO:0072528
pyrimidine-containing
compound
biosynthetic
process
GO:0046112
nucleobase
biosynthetic
process
GO:0044106
cellular
amine metabolic
process
GO:0032543
mitochondrial
translation
GO:0006417
regulation
of translation
GO:0006413
translational
initiation
GO:0019752
carboxylic
acid metabolic
process
GO:0006446
regulation
of translational
initiation
GO:0006399
tRNA metabolic
process
GO:0006520
cellular
amino acid metabolic
process
GO:0043038
amino acid activation
GO:0008652
cellular
amino acid biosynthetic
process
GO:0043039
tRNA aminoacylation
GO:1901607
alpha-amino acid biosynthetic
process
GO:0006418
tRNA aminoacylation
for protein
translation
GO:0070127
tRNA aminoacylation
for mitochondrial
protein
translation

S4D Fig


GO:0005575
cellular_component
GO:0016593
Cdc73/Paf1 complex
GO:0005623
cell
GO:0043226
organelle
GO:0044464
cell part
GO:0031975
envelope
GO:0043227
membrane-bounded
organelle
GO:0005622
intracellular
GO:0031967
organelle
envelope
GO:0044424
intracellular
part
GO:0019866
organelle
inner membrane
GO:0043229
intracellular
organelle
GO:0005737
cytoplasm
GO:0032045
guanyl-nucleotide
exchange
factor
complex
GO:0043231
intracellular
membrane-bounded
organelle
GO:0030529
ribonucleoprotein
complex
GO:0044444
cytoplasmic
part
GO:0005739
mitochondrion
GO:0005840
ribosome
GO:0048500
signal
recognition
particle
GO:0043614
multi-eIF complex
GO:0005832
chaperonin-containing
T-complex
GO:0005850
eukaryotic
translation
initiation
factor
2 complex
GO:0005851
eukaryotic
translation
initiation
factor
2B complex
GO:0005852
eukaryotic
translation
initiation
factor
3 complex
GO:0044429
mitochondrial
part
GO:0000313
organellar
ribosome
GO:0044391
ribosomal
subunit
GO:0005786
signal
recognition
particle, endoplasmic
reticulum
targeting
GO:0005740
mitochondrial
envelope
GO:0005759
mitochondrial
matrix
GO:0000314
organellar
small ribosomal
subunit
GO:0000315
organellar
large ribosomal
subunit
GO:0031966
mitochondrial
membrane
GO:0005761
mitochondrial
ribosome
GO:0005743
mitochondrial
inner membrane
GO:0044455
mitochondrial
membrane
part
GO:0005763
mitochondrial
small ribosomal
subunit
GO:0005762
mitochondrial
large ribosomal
subunit

S4E Fig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molecular_function
GO:0016874
ligase
activity
GO:0008135
translation
factor
activity, nucleic
acid binding
GO:0016875
ligase
activity, forming
carbon-oxygen
bonds
GO:0003743
translation
initiation
factor
activity
GO:0016876
ligase
activity, forming
aminoacyl-tRNA and related
compounds
GO:0004812
aminoacyl-tRNA ligase
activity
GO:0004816
asparagine-tRNA ligase
activity