

Pathway

oxidation-reduction process

energy reserve metabolic process

generation of precursor metabolites and energy

carbohydrate metabolic process

glycogen metabolic process

cellular carbohydrate metabolic process

glucose 6-phosphate metabolic process

glycogen biosynthetic process

pyruvate metabolic process

carbohydrate biosynthetic process

cellular glucan metabolic process

glucan metabolic process

NADP metabolic process

fungal-type cell wall extracellular region

cell wall

external encapsulating structure

anchored component of membrane

enzyme inhibitor activity

UDP-glucosyltransferase activity

carbohydrate binding Starch and sucrose metabolism

Biosynthesis of secondary metabolites Glycolysis / Gluconeogenesis

beta-Alanine metabolism

Glycerolipid metabolism

Valine, leucine and isoleucine degradation

Carbon metabolism

Fructose and mannose metabolism

Histidine metabolism

Pathway ribosome biogenesis ribosomal large subunit biogenesis rRNA processing oxidative phosphorylation rRNA metabolic process

respiratory electron transport chain ATP synthesis coupled electron transport

> electron transport chain ncRNA processing cation transport

maturation of LSU-rRNA cellular respiration oxidation-reduction process proton transmembrane transport ribosomal subunit export from nucleus ribosome localization ATP metabolic process monovalent inorganic cation transport

ion transport

aerobic respiration

maturation of rRNA

ribosomal small subunit biogenesis

inorganic ion transmembrane transport

cation transmembrane transport

maturation of SSU-rRNA

ion transmembrane transport

sterol metabolic process

steroid metabolic process

preribosome preribosome, large subunit precursor

> cytochrome complex nucleolus

> > respirasome

mitochondrial respirasome

respiratory chain complex

90S preribosome

respiratory chain complex III

oxidoreductase complex

respiratory chain complex IV mitochondrial envelope mitochondrial inner membrane organelle inner membrane mitochondrial membrane small-subunit processome electron transfer activity

oxidoreductase activity

heme binding tetrapyrrole binding

cytochrome-c oxidase activity heme-copper terminal oxidase activity

RNA-dependent ATPase activity Oxidative phosphorylation

Ribosome biogenesis in eukaryotes