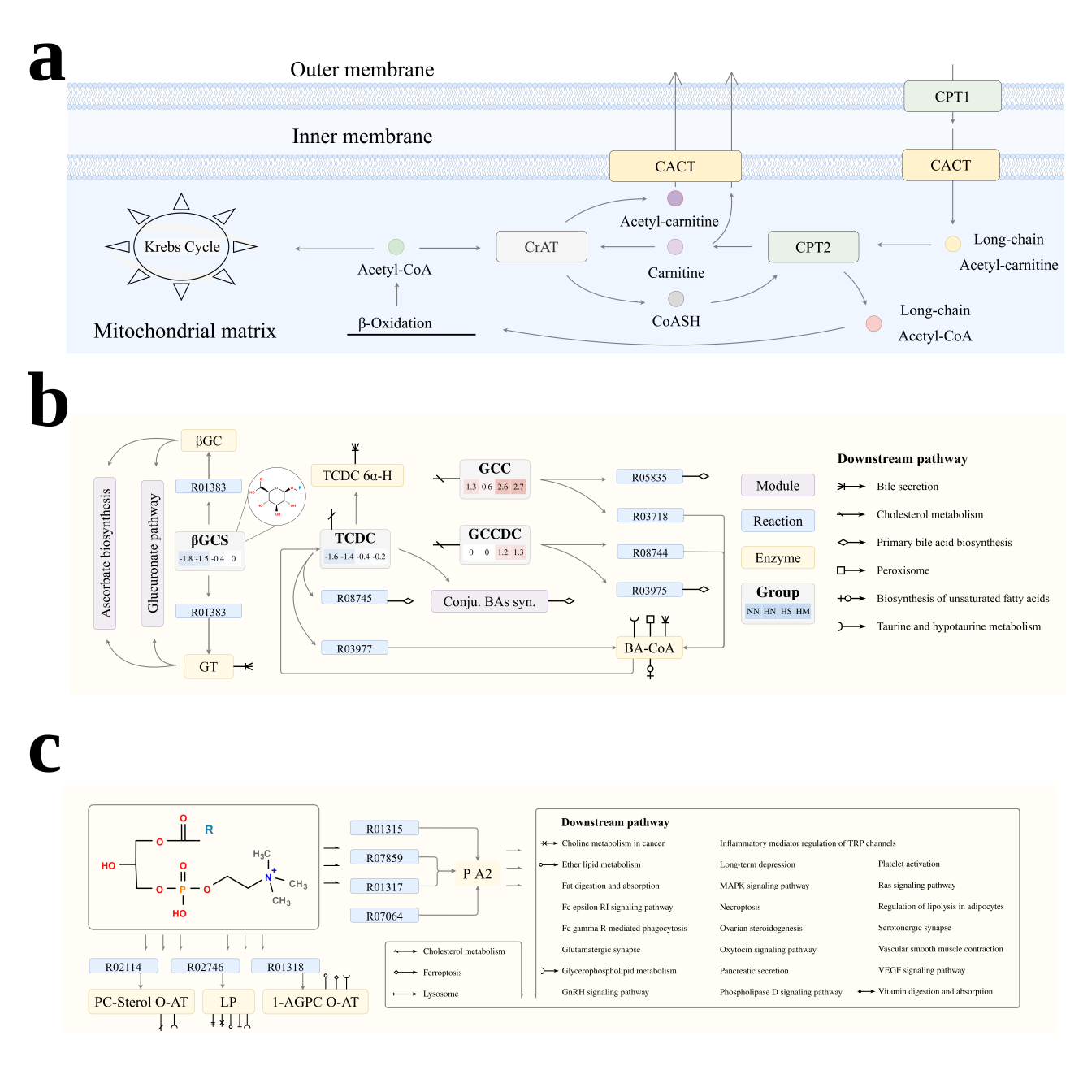
a
Outer membrane
Inner membrane
CPT1
CACT
CACT
Acetyl-carnitine
Krebs Cycle
CrAT
CPT2
Long-chain
Acetyl-carnitine
Acetyl-CoA
Carnitine
Mitochondrial matrix
β-Oxidation
CoASH
Long-chain
Acetyl-CoA
b
βGC
Ascorbate biosynthesis
Glucuronate pathway
R01383
βGCS
-1.8 -1.5 -0.4 0
R01383
GT
TCDC 6α-H
TCDC
-1.6 -1.4 -0.4 -0.2
R08745
R03977
GCC
1.3 0.6 2.6 2.7
GCCDC
0 0 1.2 1.3
Conju. BAs syn.
R05835
R03718
R08744
R03975
BA-CoA
Module
Reaction
Enzyme
Group
NN HN HS HM
Downstream pathway
Bile secretion
Cholesterol metabolism
Primary bile acid biosynthesis
Peroxisome
Biosynthesis of unsaturated fatty acids
Taurine and hypotaurine metabolism
c
R01315
R07859
R01317
R07064
P A2
R02114
R02746
R01318
PC-Sterol O-AT
LP
1-AGPC O-AT
Cholesterol metabolism
Ferroptosis
Lysosome
Downstream pathway
Choline metabolism in cancer
Ether lipid metabolism
Fat digestion and absorption
Fc epsilon RI signaling pathway
Fc gamma R-mediated phagocytosis
Glutamatergic synapse
Glycerophospholipid metabolism
GnRH signaling pathway
Inflammatory mediator regulation of TRP channels
Long-term depression
MAPK signaling pathway
Necroptosis
Ovarian steroidogenesis
Oxytocin signaling pathway
Pancreatic secretion
Phospholipase D signaling pathway
Platelet activation
Ras signaling pathway
Regulation of lipolysis in adipocytes
Serotonergic synapse
Vascular smooth muscle contraction
VEGF signaling pathway
Vitamin digestion and absorption