PEROXISOME

Peroxisome biogenesis

Matrix protein import

PTS receptors

PTS2

PEX7

PEX5

PTS1

Membrane protein import

PEX5

PEX1

PEX6

Receptor recycling

PEX16

PEX3

PEX26

PEX2

PEX10

PEX12

PEX13

PEX14

peroxisomal membrane protein

matrix proteins

adenine nucleotide transporter

PEX19

PMP70

PTS1

PMP34

PTS2

pre peroxisomal vesicles

peroxisomal targeting sequence (PTS)

ROS metabolism

endoplasmic reticulum

PXMP2

MPV17

PXMP4

PEX11

Peroxisomal division

Peroxisomal proteins

fatty acid-oxidation

α-oxidation

matrix proteins

(PTS1 type) (PTS2 type)

HPCL2 PHYH

Fatty acid degradation

β-oxidation

AMACR

ACOX

DBP

SCPX

BAAT

PPAR signaling pathway

Primary bile acid biosynthesis

(PTS2 type)

PBE ACAA1

unsaturated fatty acid β-oxidation

(PTS1 type) membrane proteins

PDCR ABCD VLACS

ECH ACSL

other-oxidation (PTS1 type)

PECR PECI NUDT7 NUDT12 NUDT19

PTE CRAT CROT MLYCD

etherphospholipid biosynthesis

matrix proteins

(PTS1 type)

DHAPAT

Glycerophospholipid metabolism

(PTS2 type)

AGPS

Ether lipid metabolism

membrane proteins

FAR

sterol precursor biosynthesis

(PTS2 type)

MVK

PMVK

Terpenoid backbone biosynthesis

amino acid metabolism (PTS1 type)

AGT DAO DDO IDH

PAOX PIPOX HMGCL HAO

antioxidant system

hydrogen peroxide metabolism

(PTS1 type)

CAT SOD INCS

PRDX5 PRDX1

epoxide metabolism

EPHX2

glutathione metabolism

GSTK1

purine metabolism

XDH

Purine metabolism

retinol metabolism

DHRS4

Retinol metabolism

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