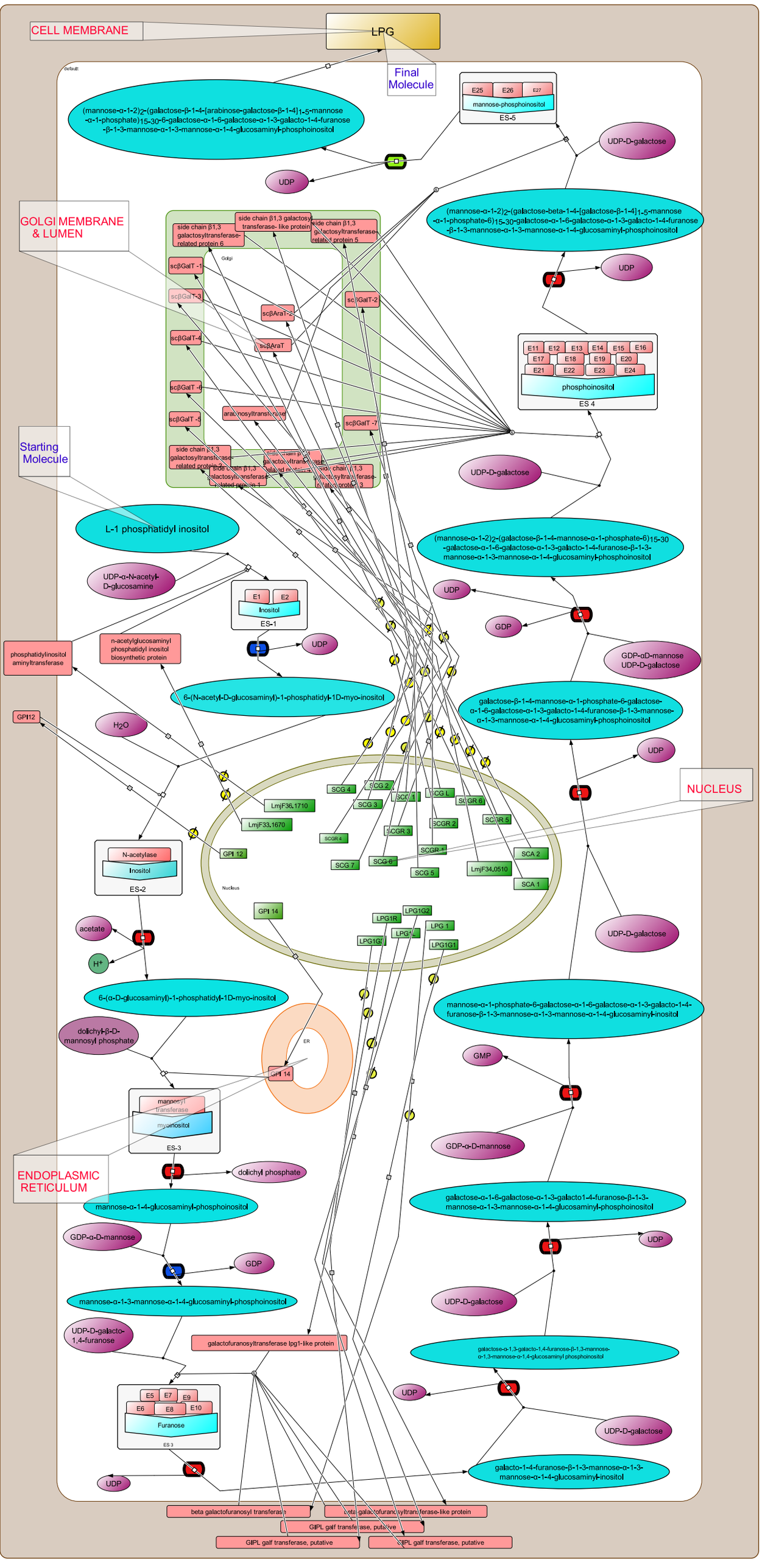
CELL MEMBRANE
LPG
Final Molecule
default
(mannose-α-1-2)2-(galactose-β-1-4-[arabinose-galactose-β-1-4]1-5-mannose -α-1-phosphate)15-30-6-galactose-α-1-6-galactose-α-1-3-galacto-1-4-furanose -β-1-3-mannose-α-1-3-mannose-α-1-4-glucosaminyl-phosphoinositol
E25
E26
E27
mannose-phosphoinositol
ES-5
UDP-D-galactose
UDP
GOLGI MEMBRANE & LUMEN
side chain β1,3 galactosyltransferase-related protein 6
side chain β1,3 galactosyl transferase- like protein
side chain β1,3 galactosyltransferase related protein 5
Golgi
scβGalT -1
scβGalT-3
scβGalT-2
scβAraT-2
scβGalT-4
scβAraT
scβGalT -6
scβGalT -5
arabinosyltransferase
scβGalT -7
side chain β1,3 galactosyltransferase-related protein 2
side chain β1,3 galactosyltransferase-related protein 1
side chain β1,3 galactosyltransferase-related protein 3
(mannose-α-1-2)2-(galactose-beta-1-4-[galactose-β-1-4]1-5-mannose -α-1-phosphate-6)15-30-galactose-α-1-6-galactose-α-1-3-galacto-1-4-furanose -β-1-3-mannose-α-1-3-mannose-α-1-4-glucosaminyl-phosphoinositol
UDP
E11
E12
E13
E14
E15
E16
E17
E18
E19
E20
E21
E22
E23
E24
phosphoinositol
ES 4
Starting Molecule
UDP-D-galactose
L-1 phosphatidyl inositol
(mannose-α-1-2)2-(galactose-β-1-4-mannose-α-1-phosphate-6)15-30 -galactose-α-1-6-galactose-α-1-3-galacto-1-4-furanose-β-1-3- mannose-α-1-3-mannose-α-1-4-glucosaminyl-phosphoinositol
UDP-α-N-acetyl-D-glucosamine
E1
E2
Inositol
ES-1
UDP
GDP
phosphatidylinositol aminyltransferase
n-acetylglucosaminyl phosphatidyl inositol biosynthetic protein
UDP
GDP-αD-mannose UDP-D-galactose
6-(N-acetyl-D-glucosaminyl)-1-phosphatidyl-1D-myo-inositol
galactose-β-1-4-mannose-α-1-phosphate-6-galactose-α-1-6-galactose-α-1-3-galacto-1-4-furanose-β-1-3-mannose-α-1-3-mannose-α-1-4-glucosaminyl-phosphoinositol
GPI12
H2O
UDP
NUCLEUS
SCG 4
SCG 2
SCG 1
SCG L
SCGR 6
SCG 3
SCGR 5
LmjF36.1710
LmjF33.1670
SCGR 2
SCGR 3
SCGR 4
SCGR 1
SCA 2
SCG 7
SCG 6
LmjF34.0510
SCG 5
SCA 1
Nucleus
GPI 12
N-acetylase
Inositol
ES-2
GPI 14
LPG1G2
LPG1R
LPG 1
LPG1G1
acetate
UDP-D-galactose
H+
6-(α-D-glucosaminyl)-1-phosphatidyl-1D-myo-inositol
mannose-α-1-phosphate-6-galactose-α-1-6-galactose-α-1-3-galacto-1-4-furanose-β-1-3-mannose-α-1-3-mannose-α-1-4-glucosaminyl-inositol
dolichyl-β-D-mannosyl phosphate
ER
GMP
GPI 14
mannosyl Transferase
myo-inositol
ES-3
GDP-α-D-mannose
ENDOPLASMIC RETICULUM
dolichyl phosphate
galactose-α-1-6-galactose-α-1-3-galacto1-4-furanose-β-1-3-mannose-α-1-3-mannose-α-1-4-glucosaminyl-phosphoinositol
mannose-α-1-4-glucosaminyl-phosphoinositol
GDP-α-D-mannose
UDP
GDP
UDP-D-galactose
mannose-α-1-3-mannose-α-1-4-glucosaminyl-phosphoinositol
UDP-D-galacto-1,4-furanose
galactofuranosyltransferase lpg1-like protein
galactose-α-1,3-galacto-1,4-furanose-β-1,3-mannose-α-1,3-mannose-α-1,4-glucosaminyl phosphoinositol
E5
E7
E9
E6
E8
E10
Furanose
ES 3
UDP
UDP-D-galactose
UDP
galacto-1-4-furanose-β-1-3-mannose-α-1-3-mannose-α-1-4-glucosaminyl-inositol
beta galactofuranosyl transferase 3
beta galactofuranosyltransferase-like protein
GIPL galf transferase, putative
GIPL galf transferase, putative
GIPL galf transferase, putative