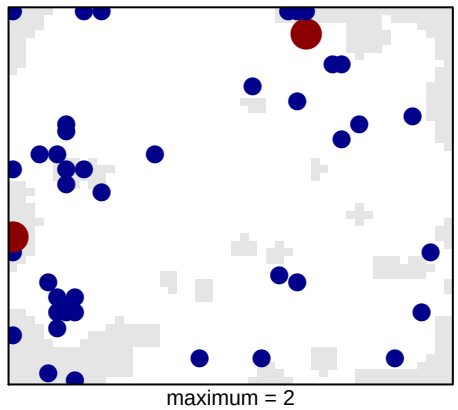
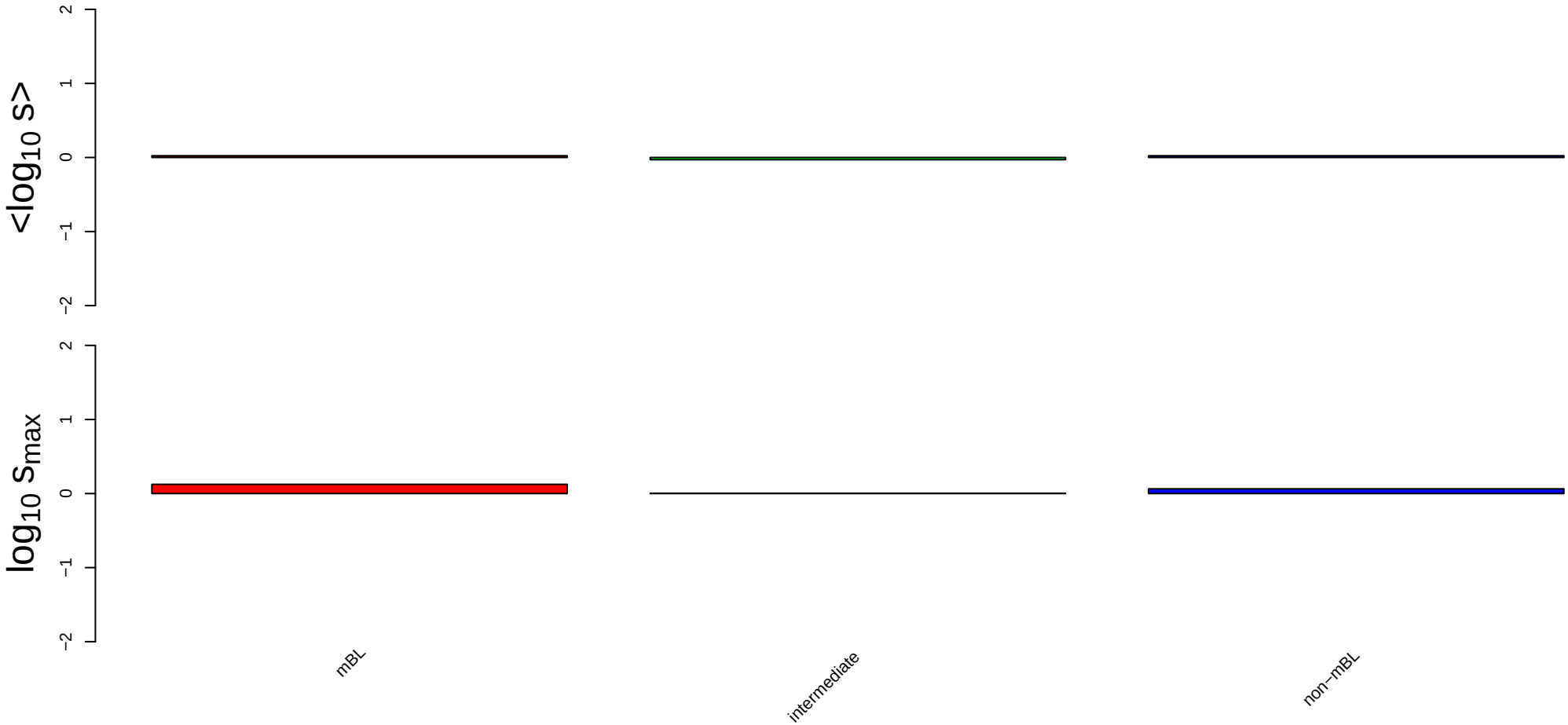
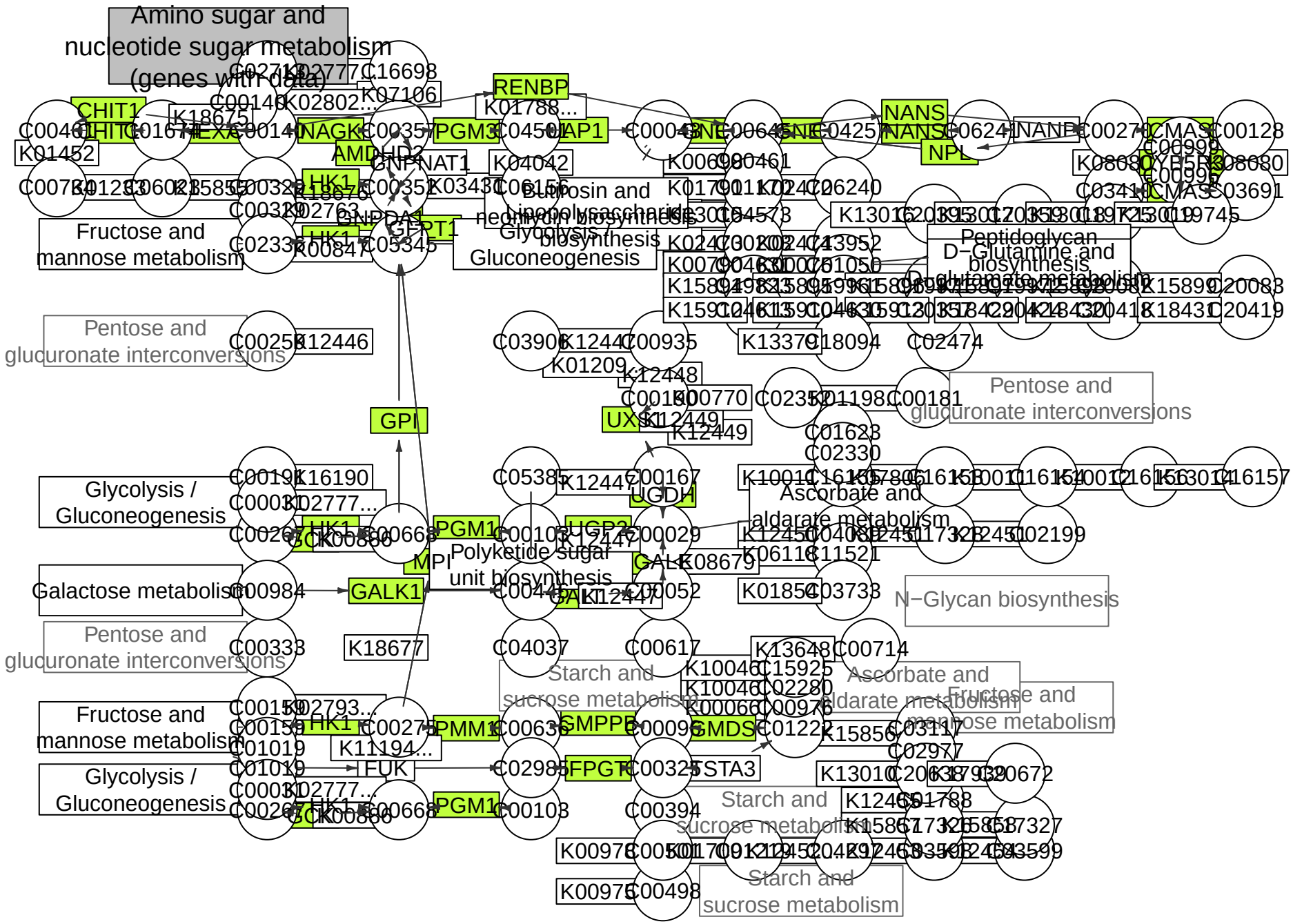
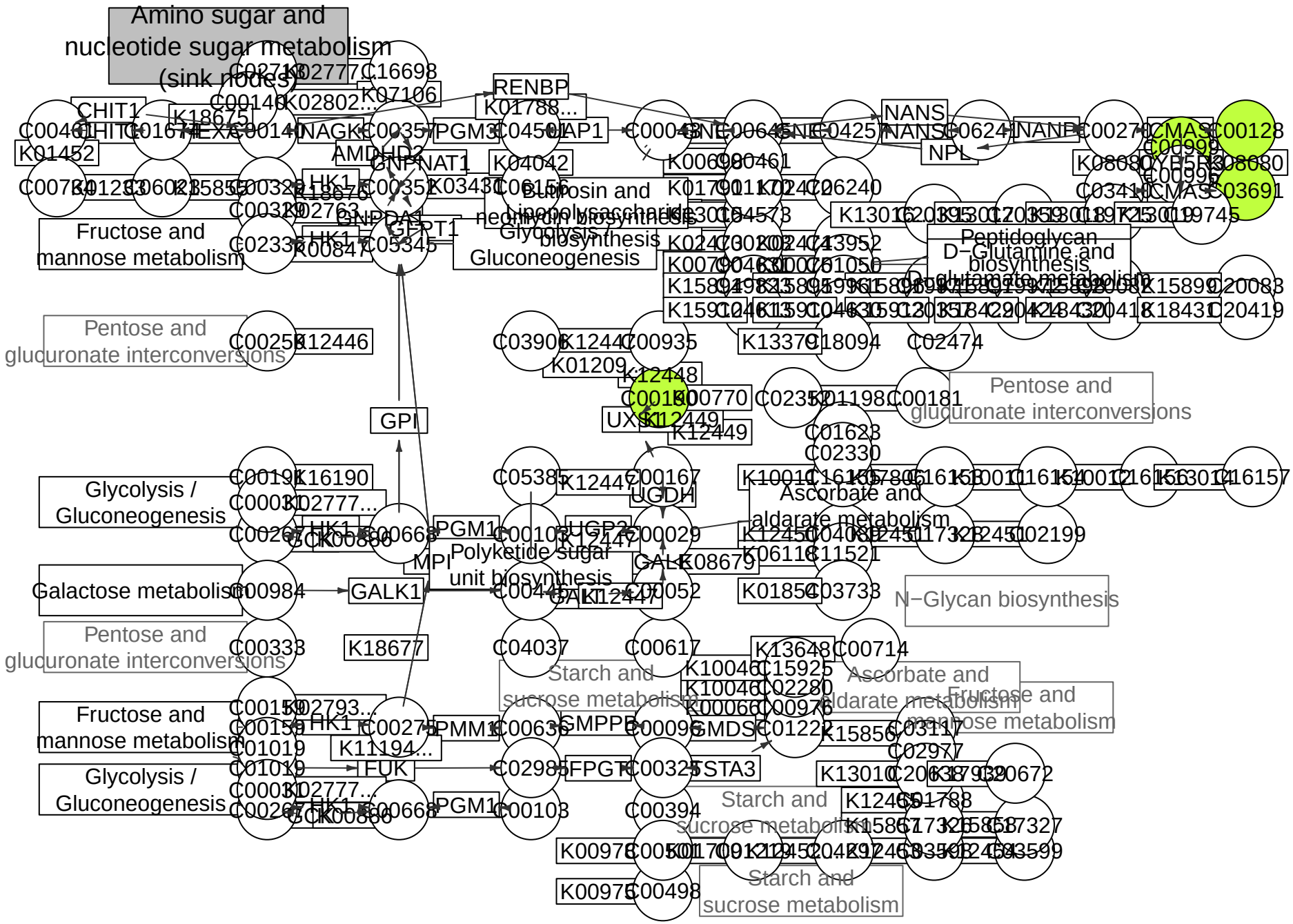
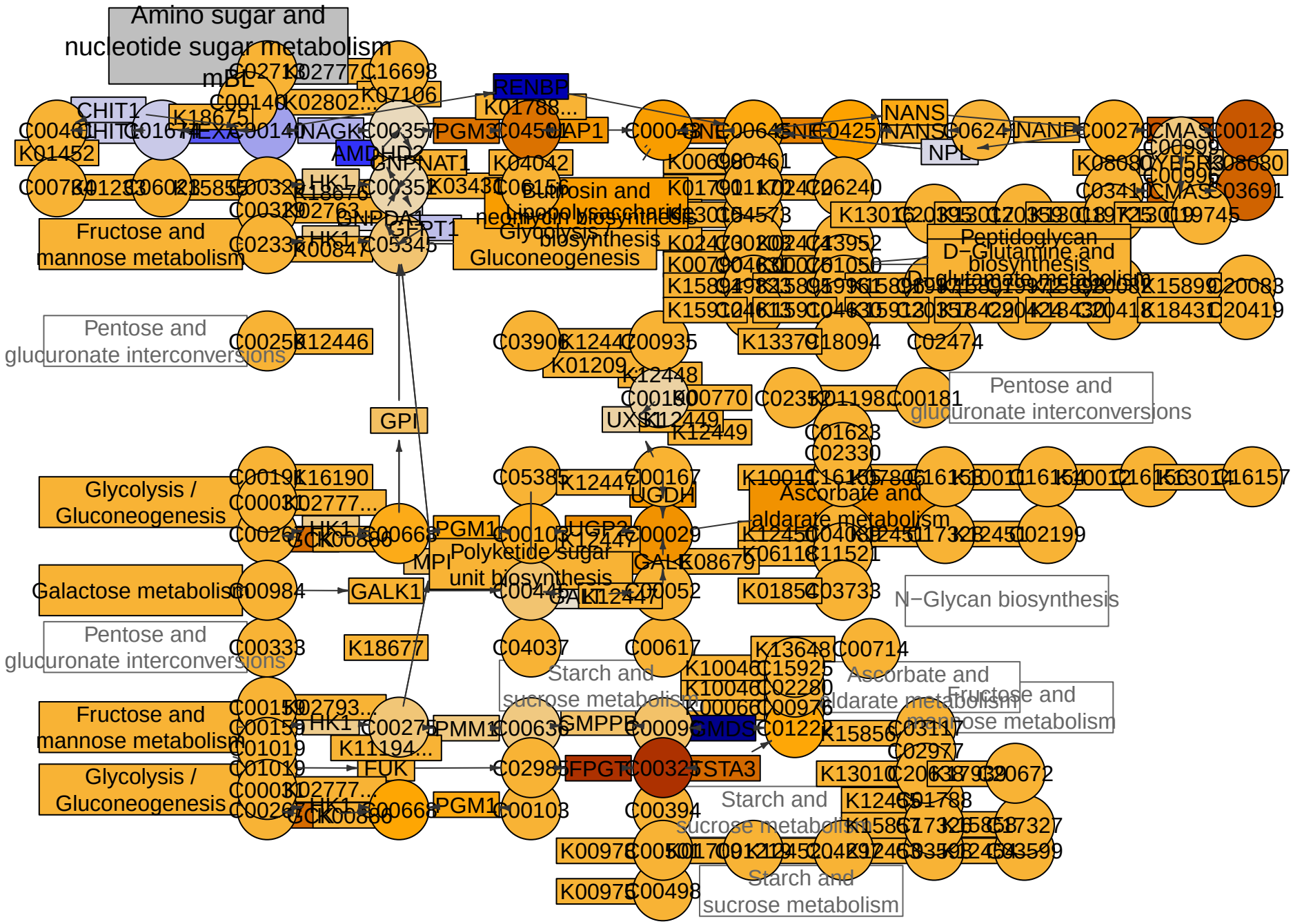
Amino sugar and nucleotide sugar m

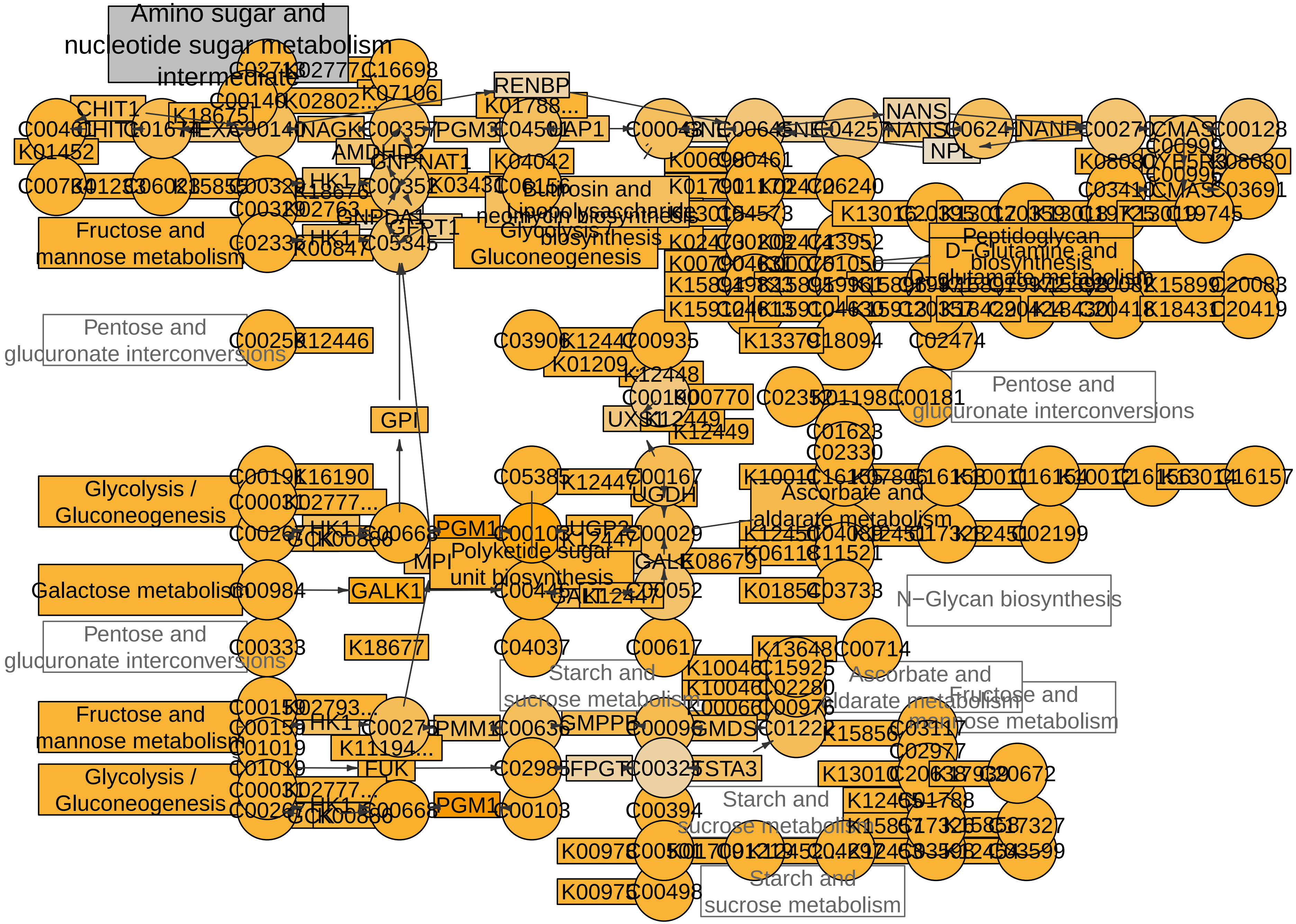




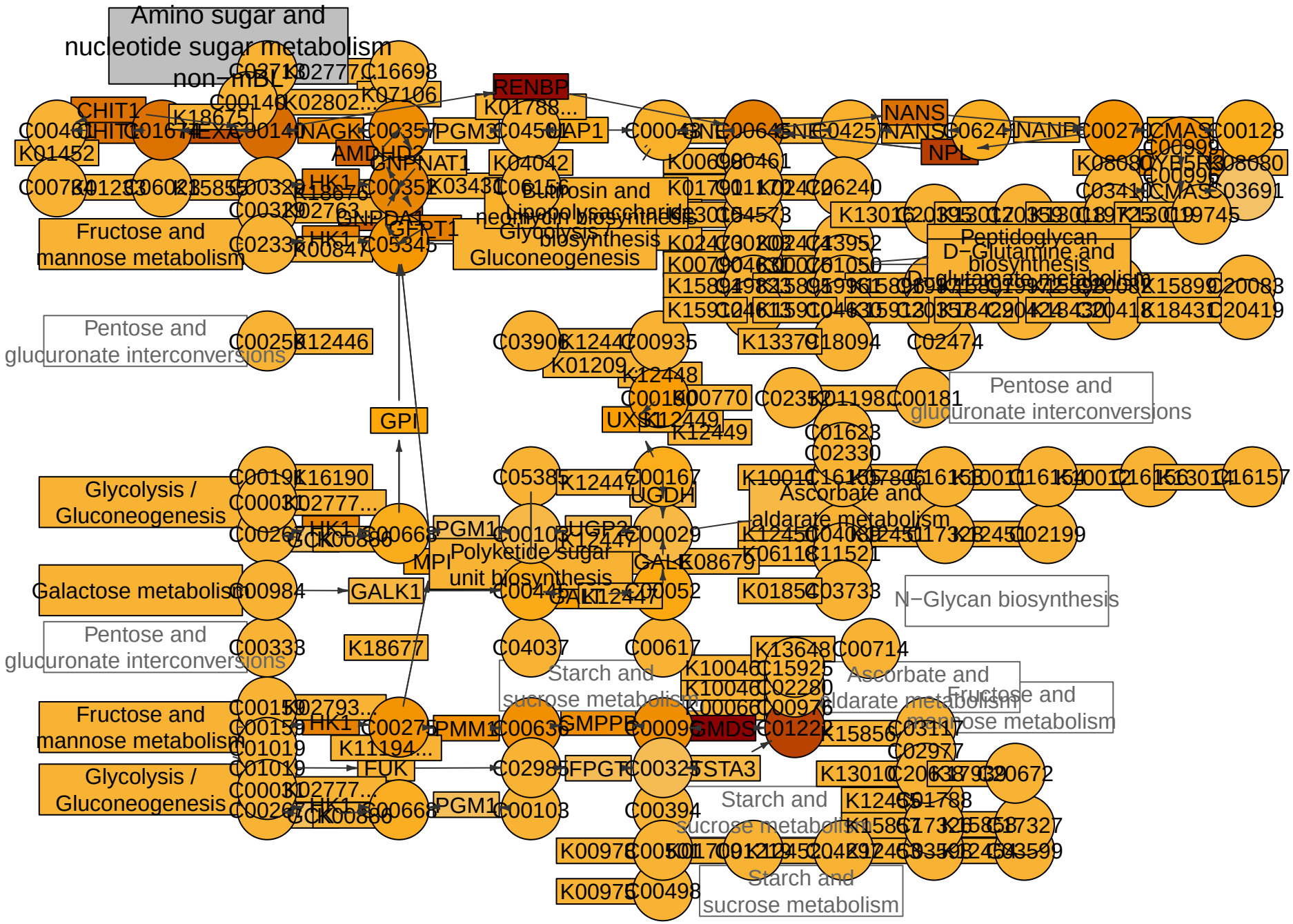

Amino sugar and nucleotide sugar metabolism (genes with data)
CHIT1
RENBP
NANS
NPL
GPI
UXS1
UGDH
PGM1
MPI
GALK1
PMM1
FPGT
GMDS
Fructose and mannose metabolism
Glycolysis / Gluconeogenesis
Galactose metabolism
Pentose and glucuronate interconversions
Starch and sucrose metabolism
Ascorbate and aldarate metabolism
Peptidoglycan biosynthesis
D−Glutamine and D−glutamate metabolism
N−Glycan biosynthesis
Polyketide sugar unit biosynthesis
Lipopolysaccharide biosynthesis
Glycolysis
Gluconeogenesis


Amino sugar and nucleotide sugar metabolism (sink nodes)
Fructose and mannose metabolism
Pentose and glucuronate interconversions
Glycolysis / Gluconeogenesis
Galactose metabolism
Pentose and glucuronate interconversions
Fructose and mannose metabolism
Glycolysis / Gluconeogenesis
Bufrosin and Lipopolysaccharide biosynthesis
Glycolysis / Gluconeogenesis
Peptidoglycan biosynthesis
D−Glutamine and D−glutamate metabolism
Pentose and glucuronate interconversions
Ascorbate and aldarate metabolism
Polyketide sugar unit biosynthesis
N−Glycan biosynthesis
Starch and sucrose metabolism
Ascorbate and aldarate metabolism
Fructose and mannose metabolism
Starch and sucrose metabolism
Starch and sucrose metabolism
RENBP
K01788...
NANS
NPL
GPI
MPI
GALK1
PGM1
FUK
K11194...
K18677
K07106
K02802...
K02777...
K00847
K12446
K12448
K12449
K01209
K00770
K01198
K00181
K01623
K02330
K16190
K00668
K00880
K12447
K00029
K08679
K11521
K02199
K03733
K00333
K00617
K00714
K15925
K02280
K00976
K03117
K02977
K01788
K00394
K00498
K00975
K00976


Amino sugar and nucleotide sugar metabolism
Fructose and mannose metabolism
Butirosin and Lipopolysaccharide biosynthesis
Glycolysis / Gluconeogenesis
Peptidoglycan biosynthesis
D−Glutamine and D−glutamate metabolism
Pentose and glucuronate interconversions
Ascorbate and aldarate metabolism
Polyketide sugar unit biosynthesis
N−Glycan biosynthesis
Starch and sucrose metabolism
Galactose metabolism
RENBP
NANS
NPL
GPI
GALK1
MPI
UGDH
FUK
FPGT
STA3
GMDS
GMPPB
PMM1
PGM1
GNPNAT1
GFPT1
GNPDA1
AMDHD2
NAGK
PGM3
NAP1
CHIT1
HK1
GALK
UXS1



Amino sugar and nucleotide sugar metabolism intermediate
RENBP
K01788...
K07106
K02802...
C16698
CHIT1
K18675
K01452
NAGK
PGM3
UAP1
AMDHD2
GNPNAT1
K04042
K03431
C06156
Butirosin and neomycin biosynthesis
Lipopolysaccharide biosynthesis
Glycolysis / Gluconeogenesis
GNPDA1
GFPT1
HK1
K00847
C05345
Fructose and mannose metabolism
C00043
C00645
C04257
NANS
NPL
NANP
C06241
C00270
CMAS
C00128
K08080
CYB5R3
C00999
C00996
C03410
C03691
C19745
Peptidoglycan biosynthesis
D−Glutamine and D−glutamate metabolism
K13016
K15899
C20083
K18431
C20419
C02474
C26240
C04573
C13952
C01050
K13379
C18094
Pentose and glucuronate interconversions
C00256
K12446
C03906
C00935
K01209
K12448
K00770
UXS1
K12449
C02352
K01198...
C00181
C01623
C02330
GPI
Glycolysis / Gluconeogenesis
C00191
K16190
K02777...
GCK
K00886
C00668
PGM1
MPI
Polyketide sugar unit biosynthesis
C05385
K12447
C00167
UGDH
UGP2
C00029
GALE
K08679
Ascorbate and aldarate metabolism
K06118
C11521
K10011
K07806
K13014
C16157
C02199
Galactose metabolism
C00984
GALK1
C00446
GALT
C00052
K01854
C03733
N−Glycan biosynthesis
C00333
K18677
C04037
C00617
K13648
C00714
Starch and sucrose metabolism
K10046
C15925
C02280
K00066
C00976
K02793...
C00159
C01019
K11194...
FUK
PMM1
C00636
GMPPB
C00096
GMDS
C01222
K15856
C03117
C02977
C02985
FPGT
C00325
TSTA3
K13010
C20672
C00394
C00103
C01788
C17327
C03599
K00978
K00975
C00498


Amino sugar and nucleotide sugar metabolism
non-mBL
RENBP
CHIT1
NANS
NPL
Fructose and mannose metabolism
Gluconeogenesis
Butirosin and Lipopolysaccharide biosynthesis
Glycolysis
Peptidoglycan biosynthesis
D-Glutamine and D-glutamate metabolism
Pentose and glucuronate interconversions
GPI
Glycolysis / Gluconeogenesis
Galactose metabolism
Polyketide sugar unit biosynthesis
Ascorbate and aldarate metabolism
N-Glycan biosynthesis
Starch and sucrose metabolism
Fructose and mannose metabolism