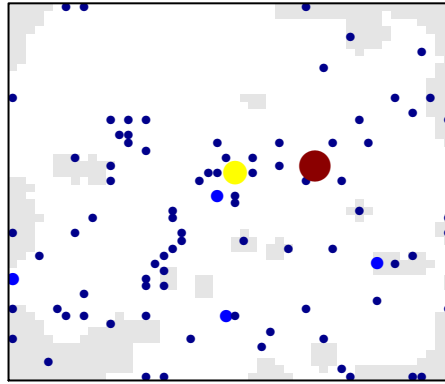


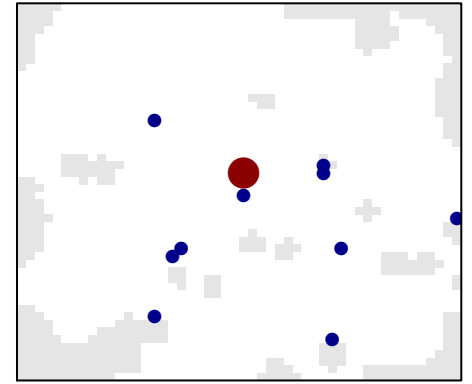
Bile secretion

all genes

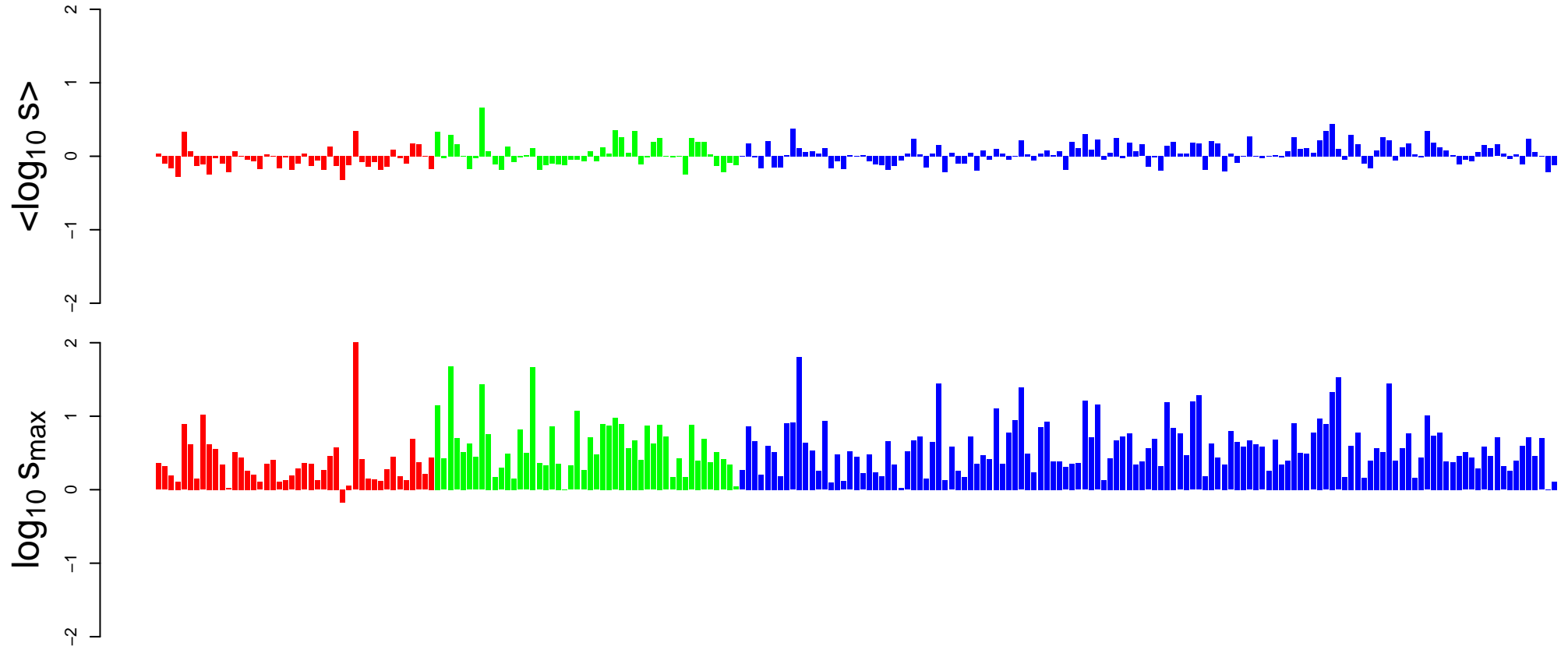


maximum = 7

sink node genes



maximum = 3



Bile secretion
MPI-006

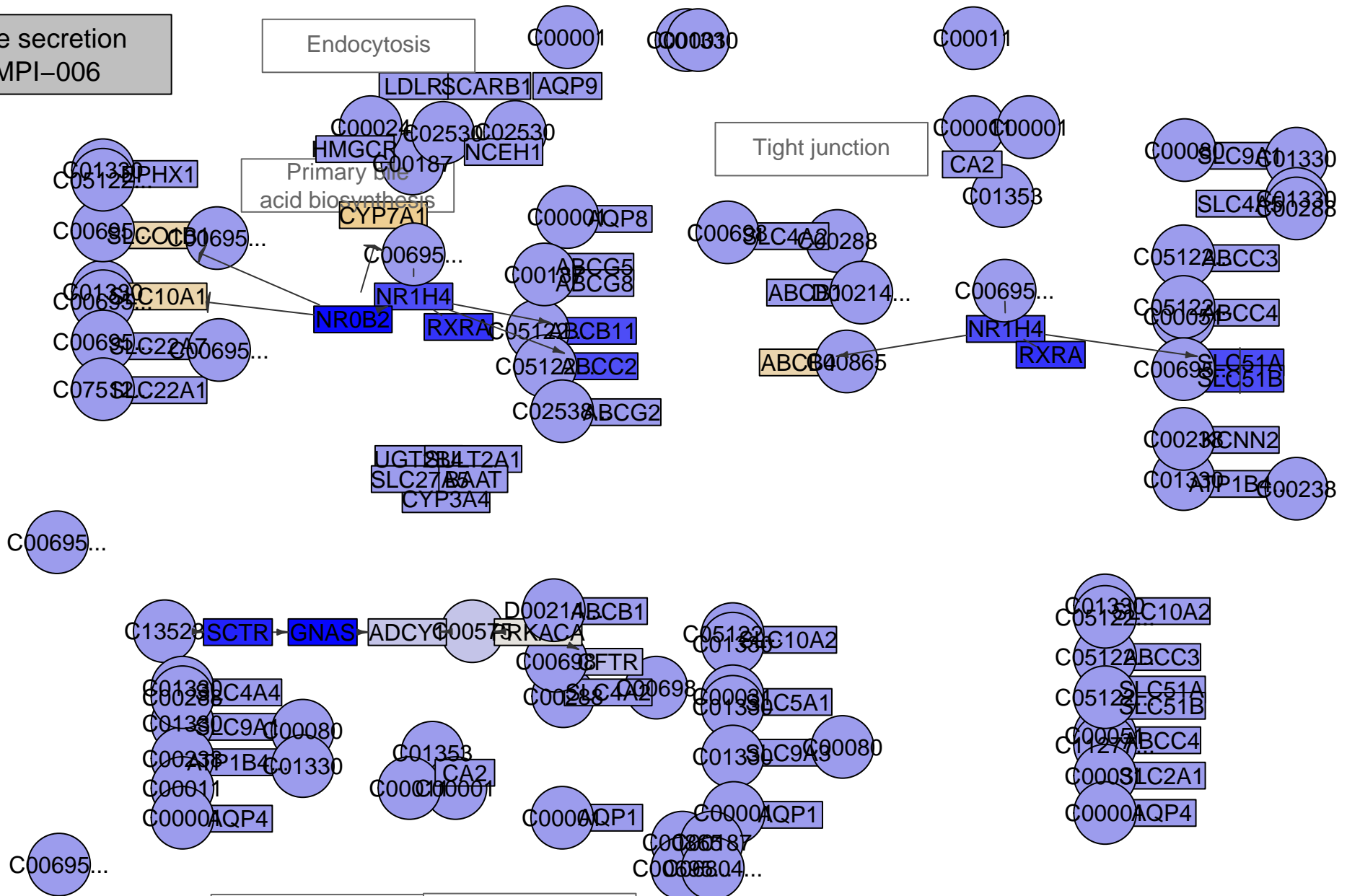
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-044

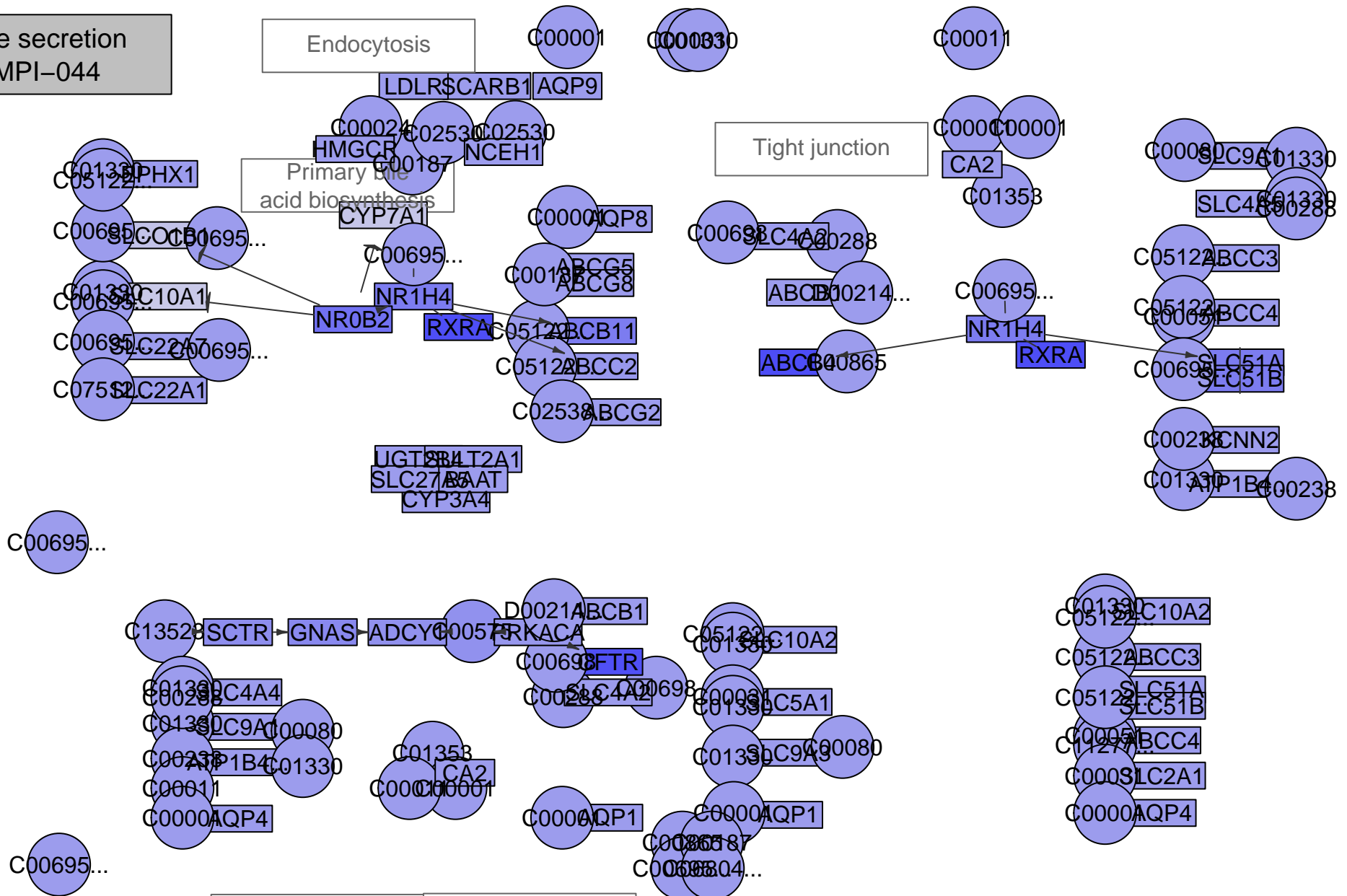
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-055

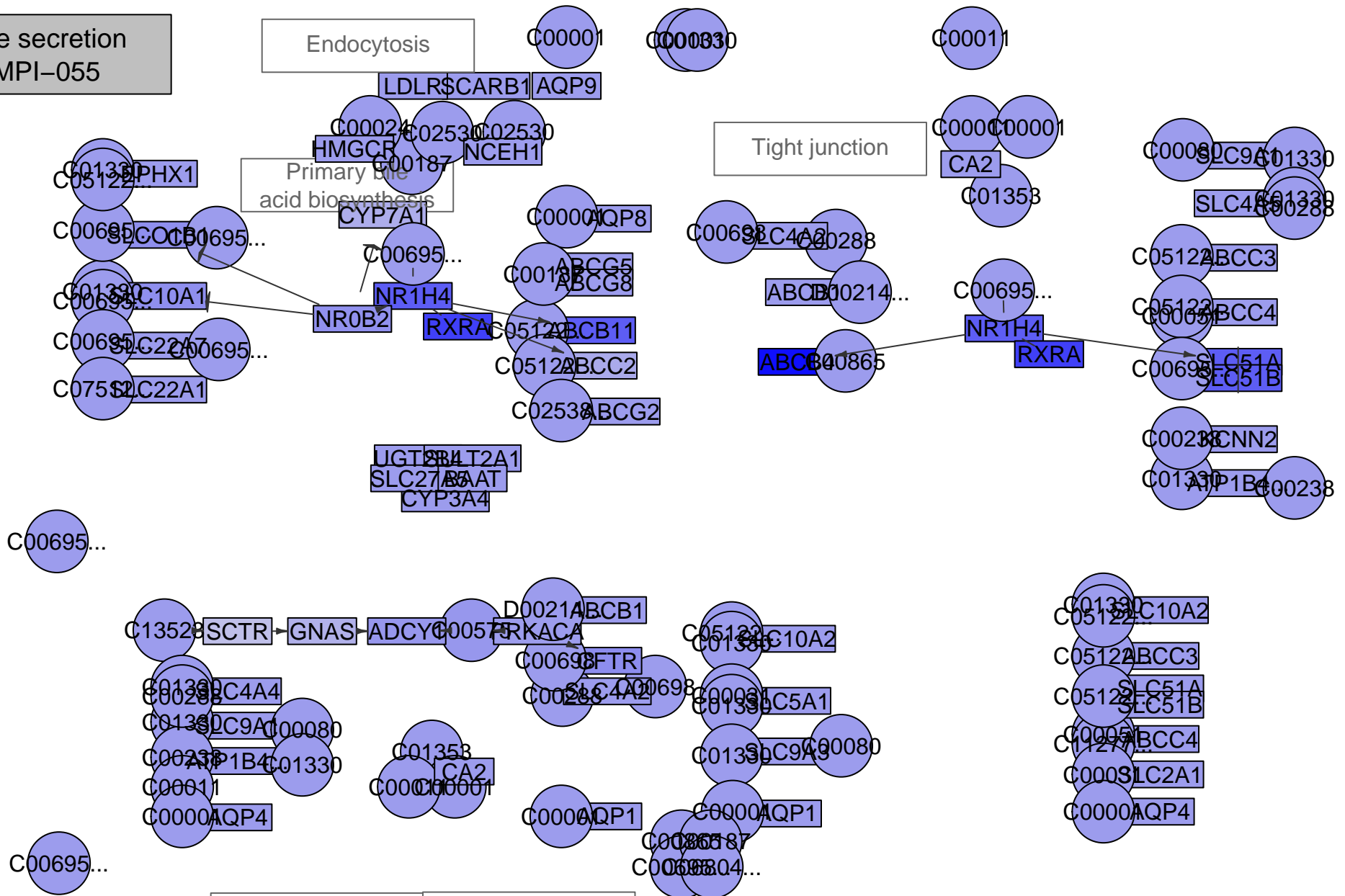
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-065

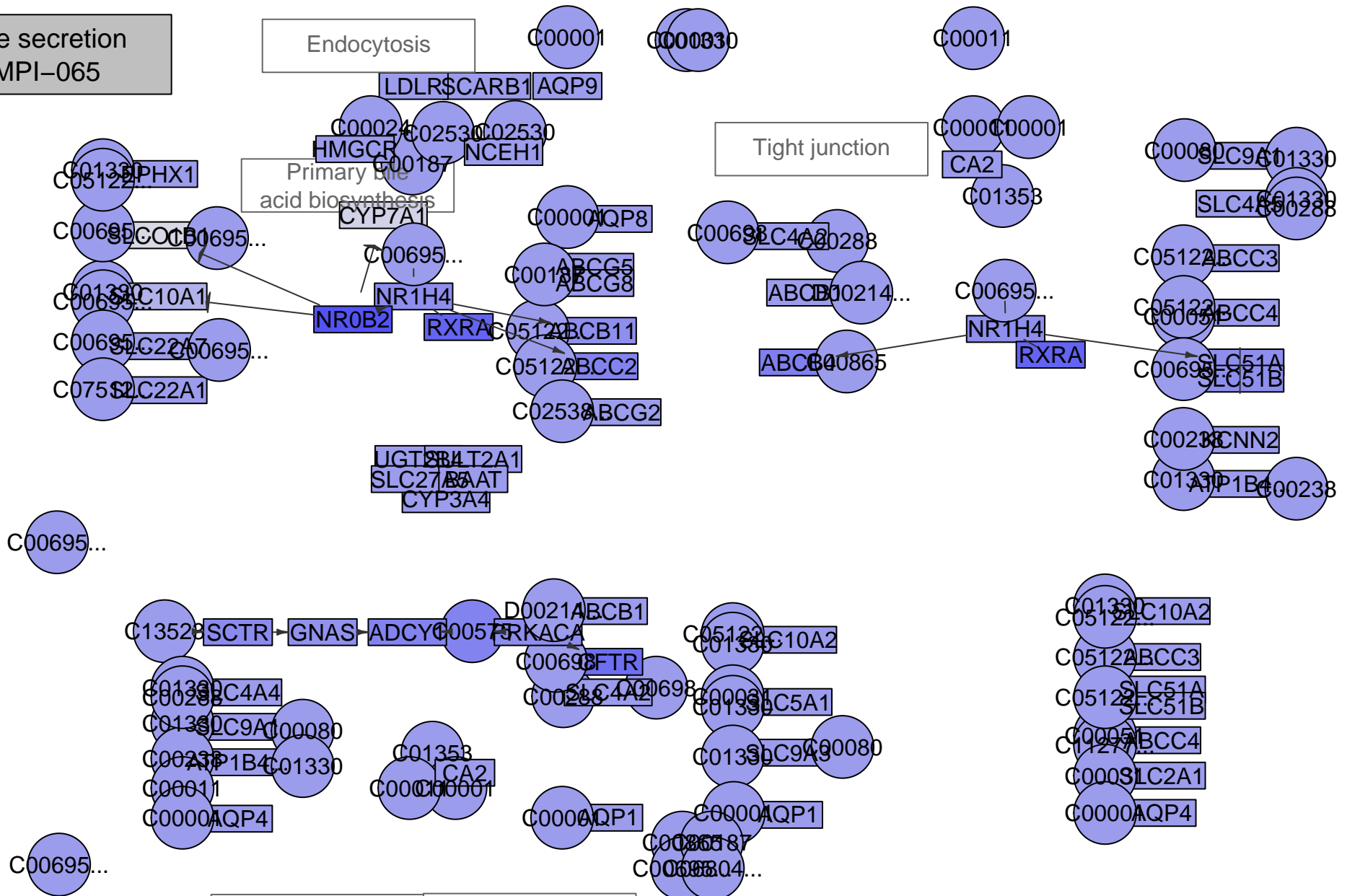
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-071

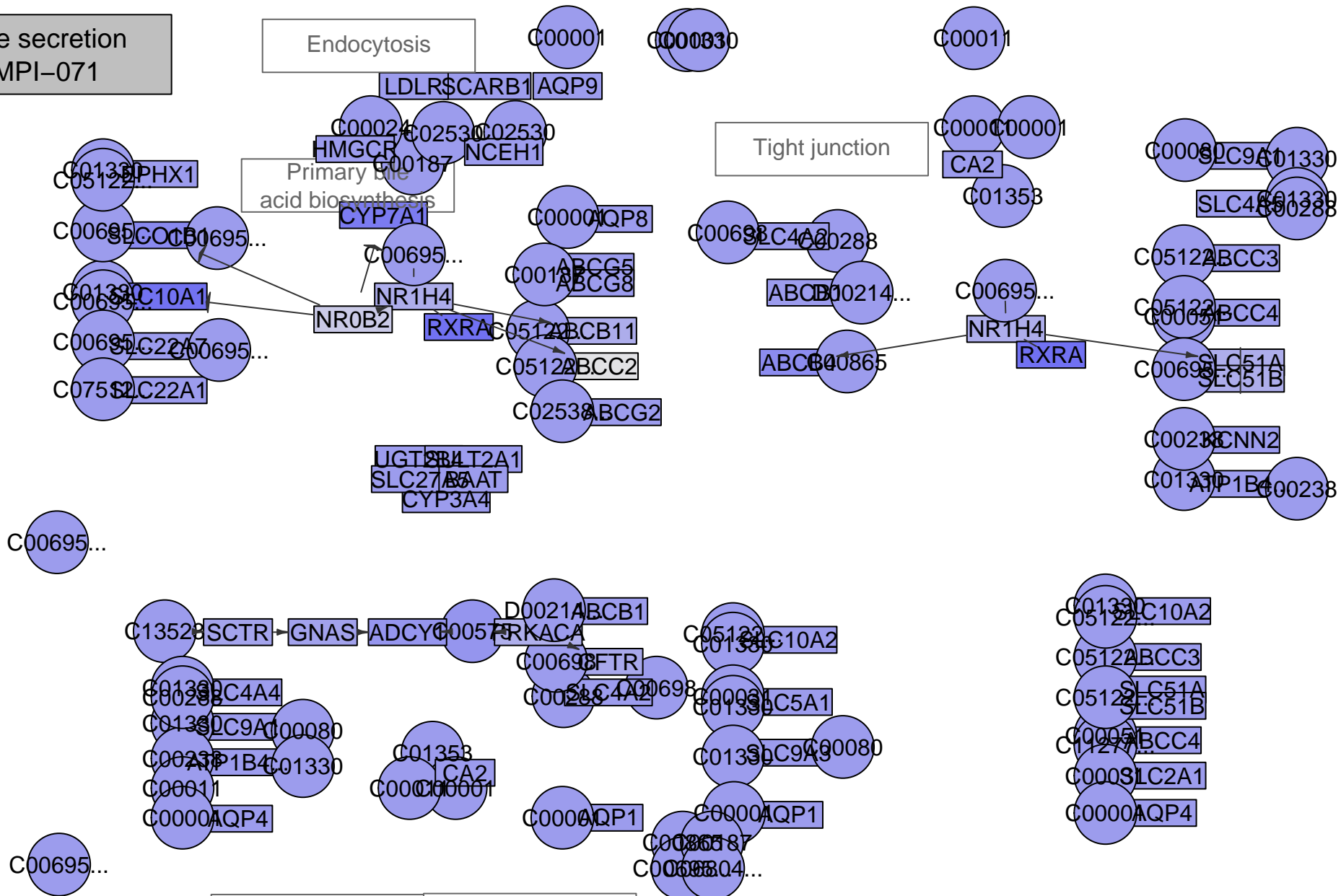
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-075

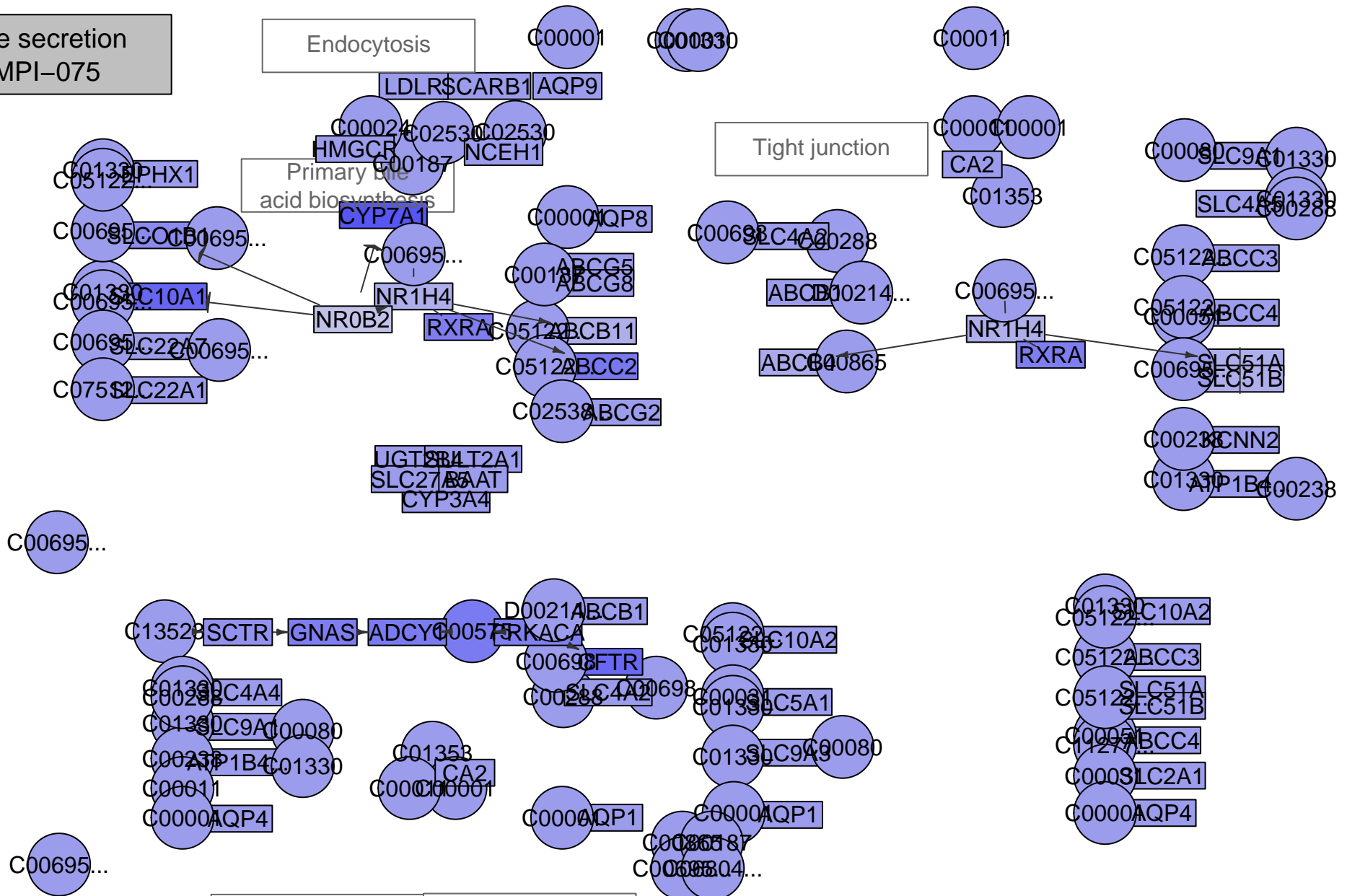
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-077

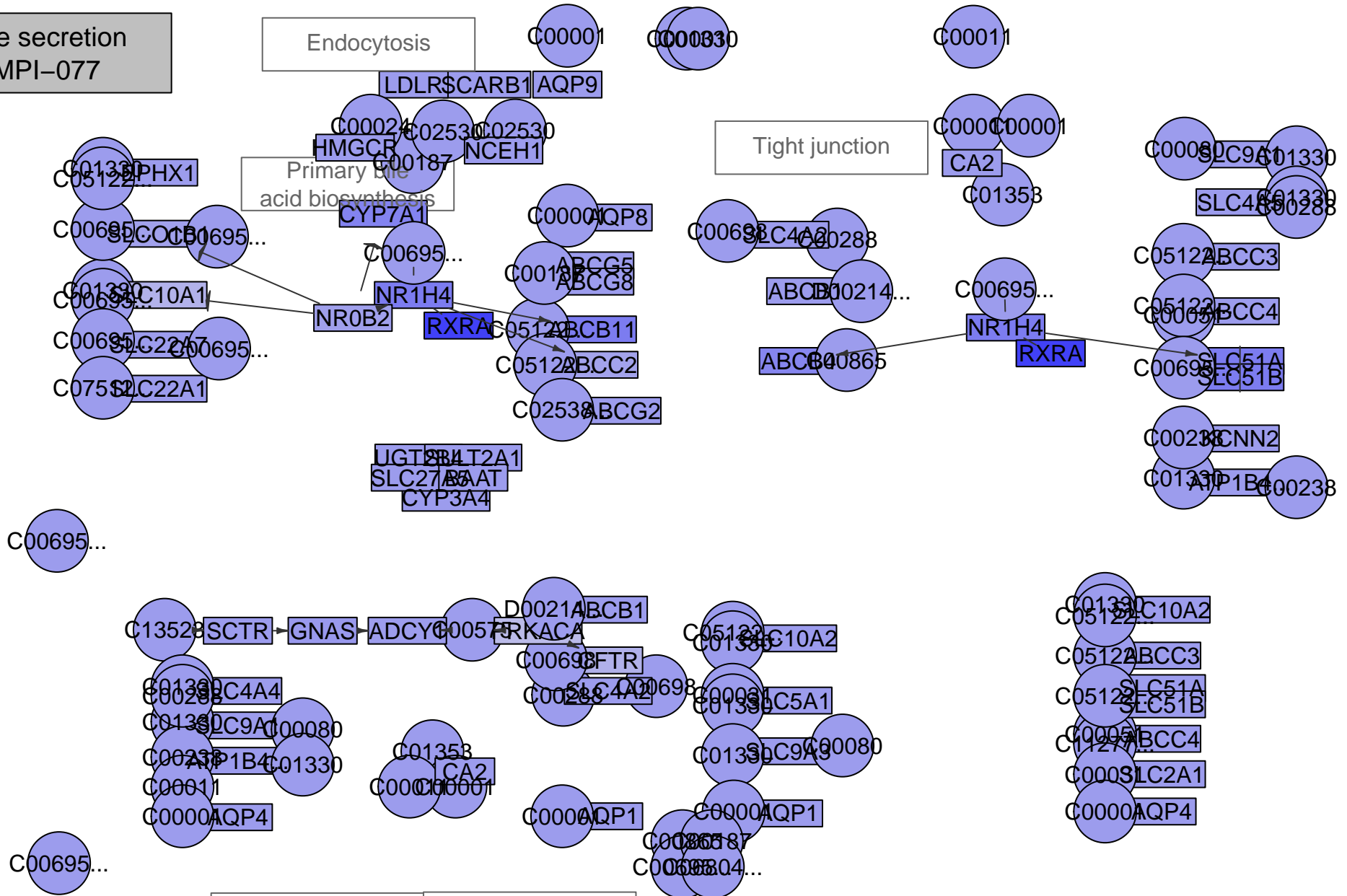
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-078

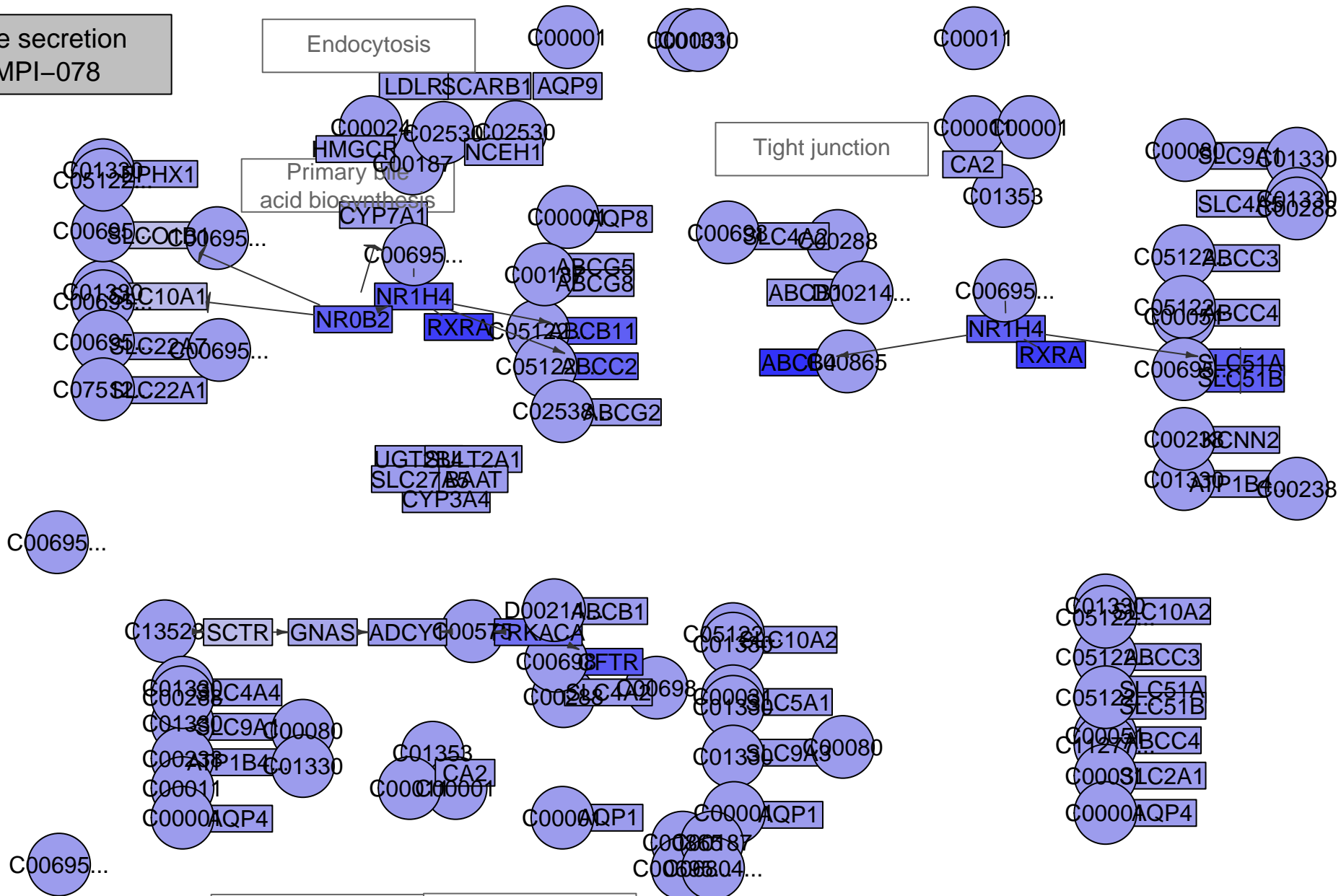
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-086

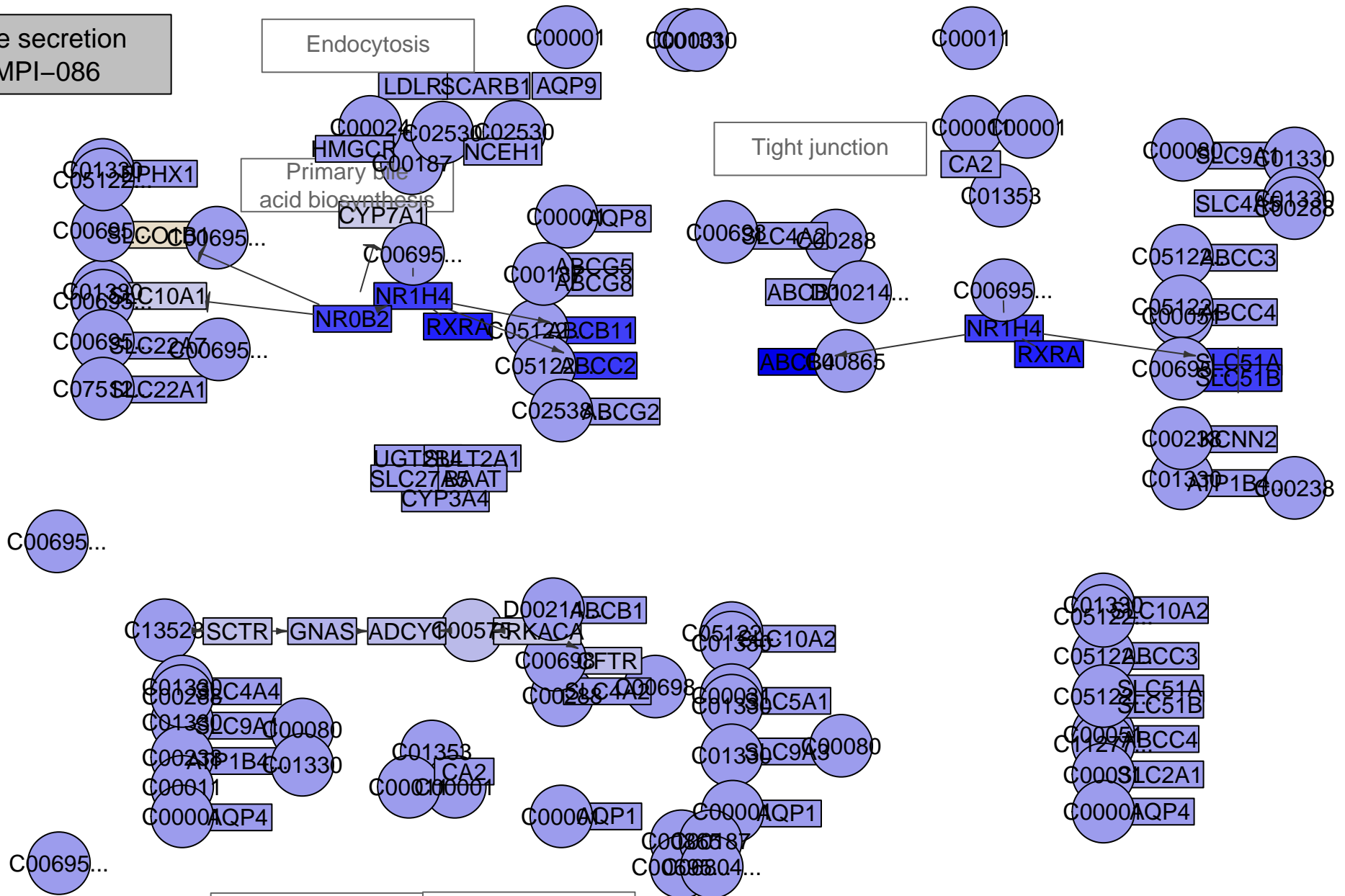
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-087

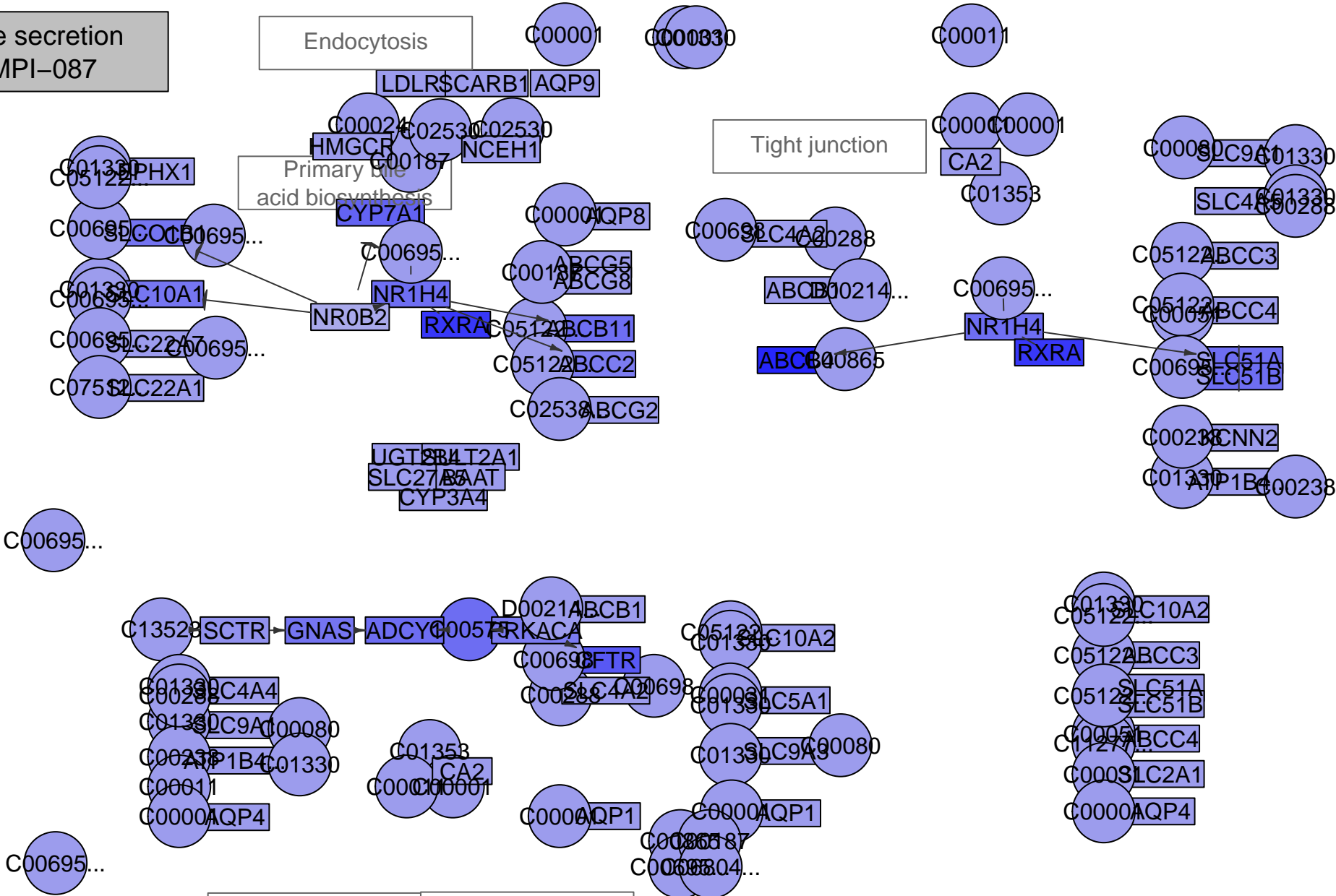
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-089

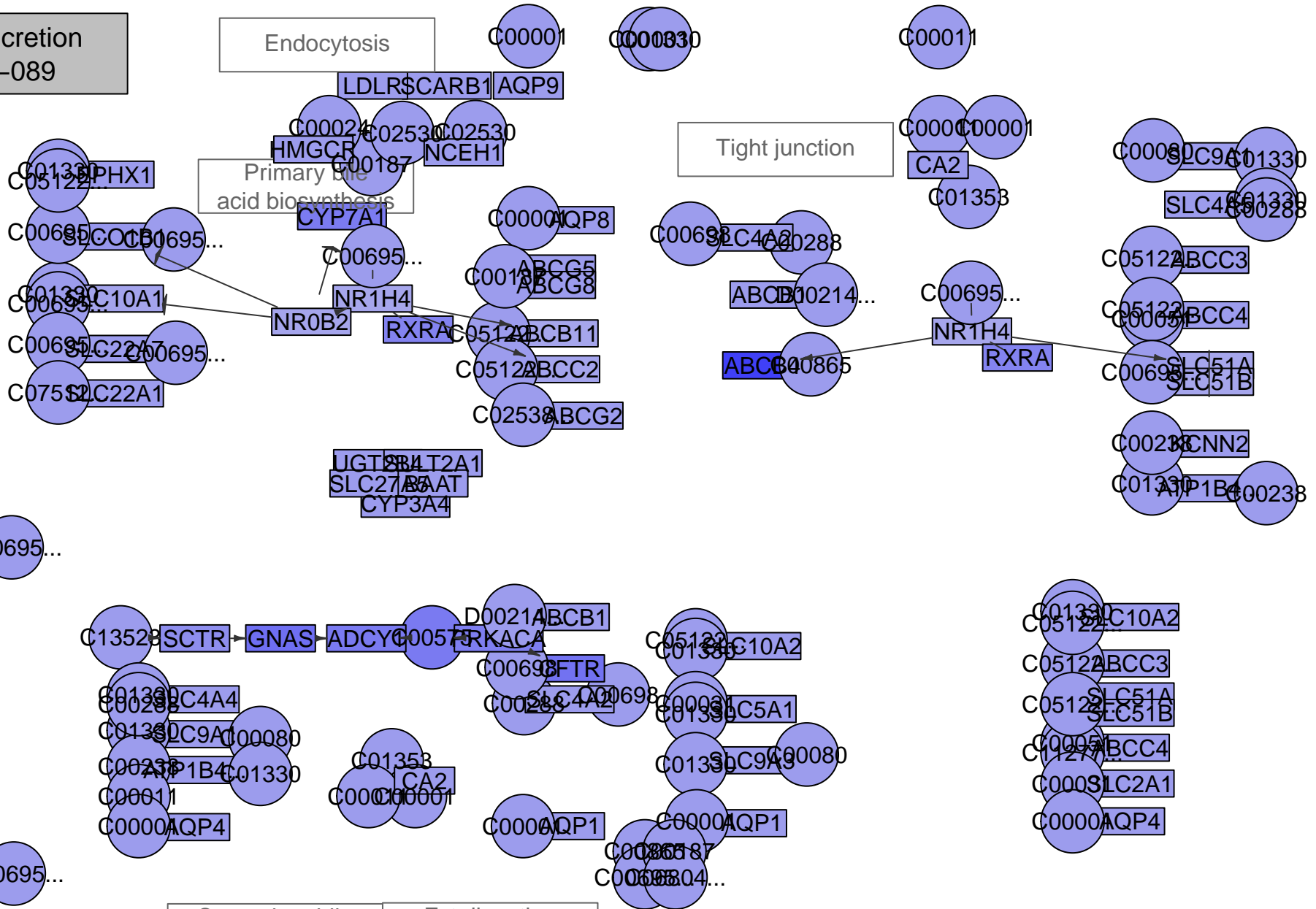
Endocytosis

Primary bile acid biosynthesis

Tight junction

Secondary bile acid biosynthesis

Fat digestion and absorption



Bile secretion
MPI-090

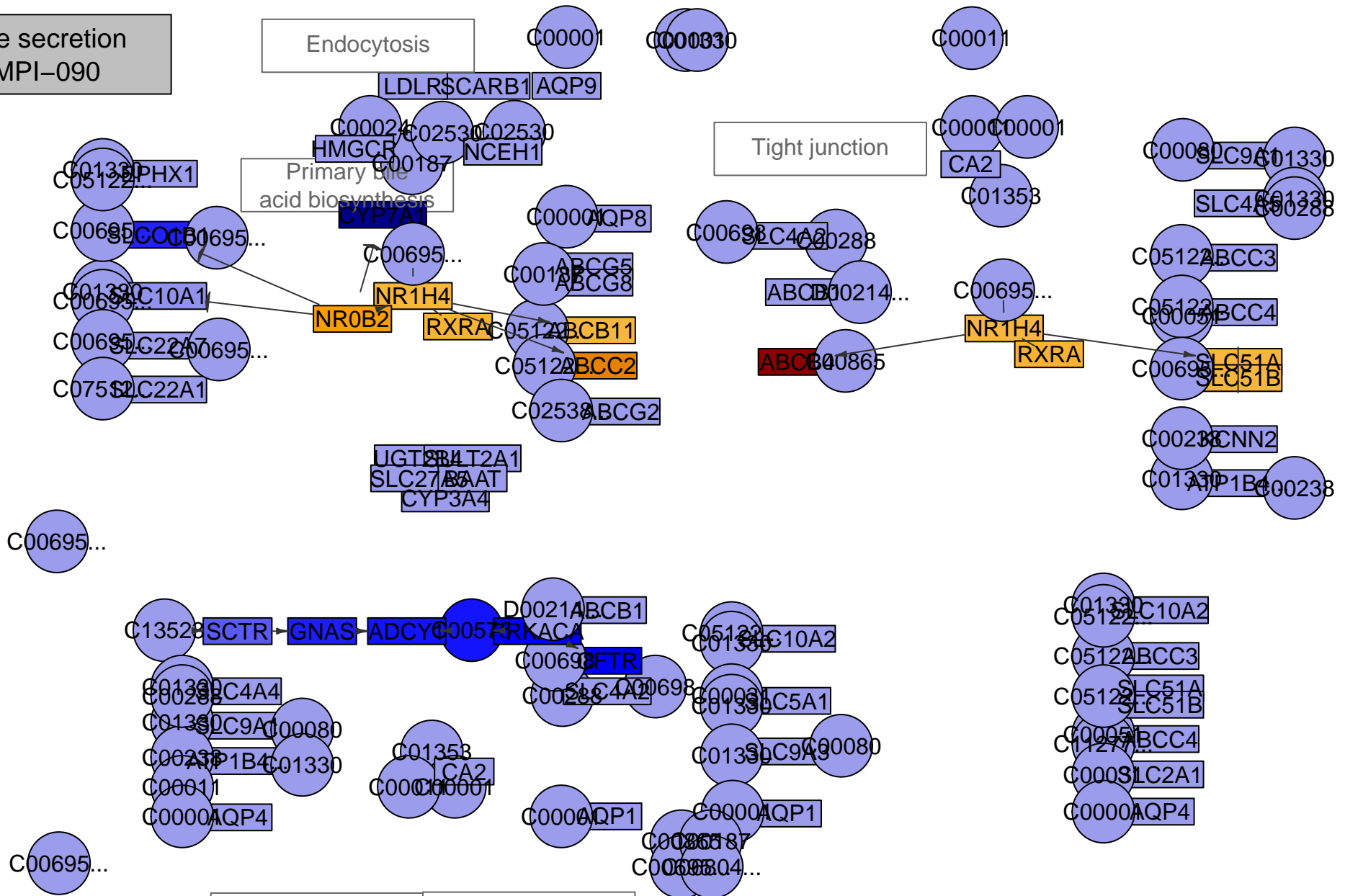
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-095

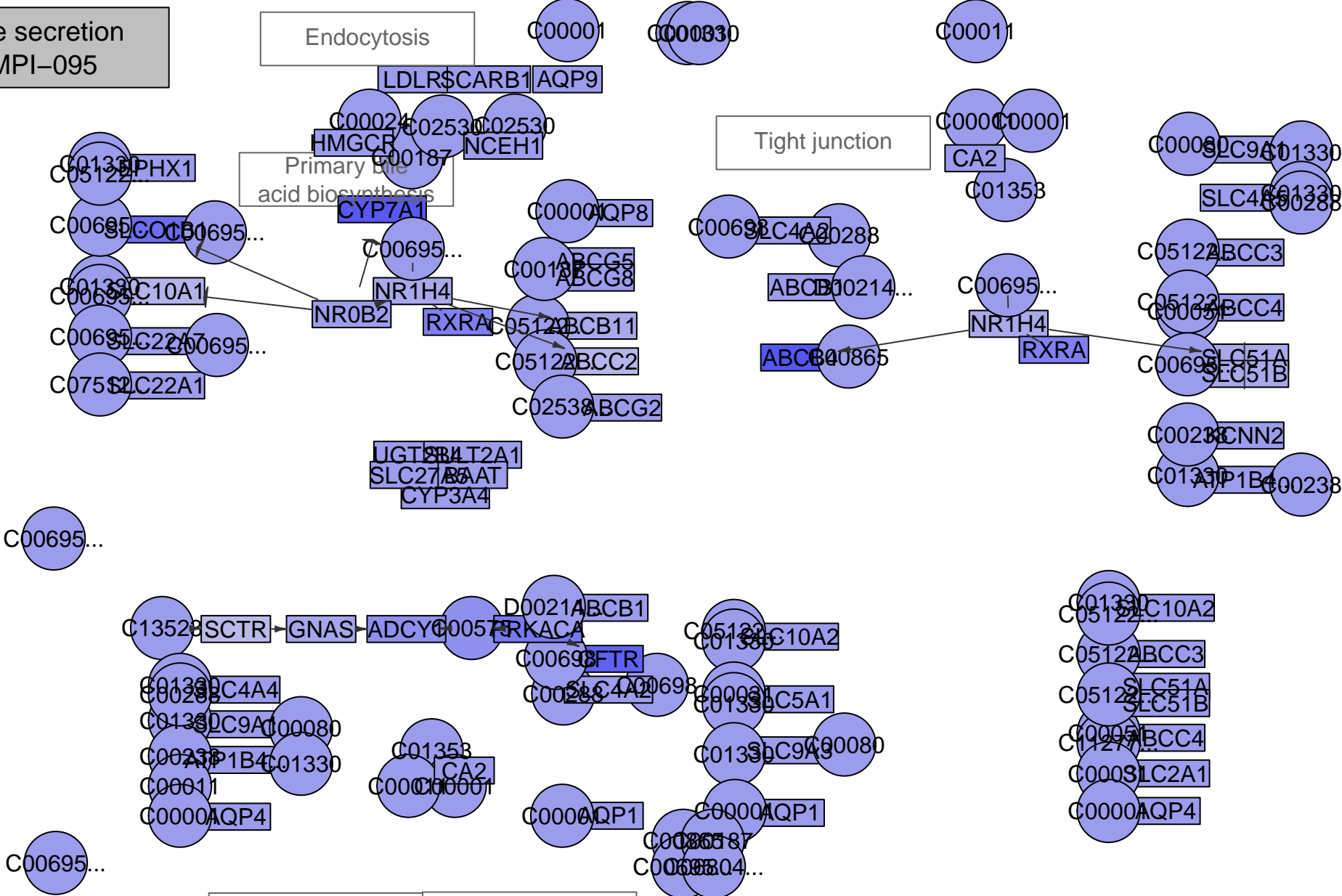
Endocytosis

Tight junction

Primary bile acid biosynthesis

Secondary bile acid biosynthesis

Fat digestion and absorption



Bile secretion
MPI-101

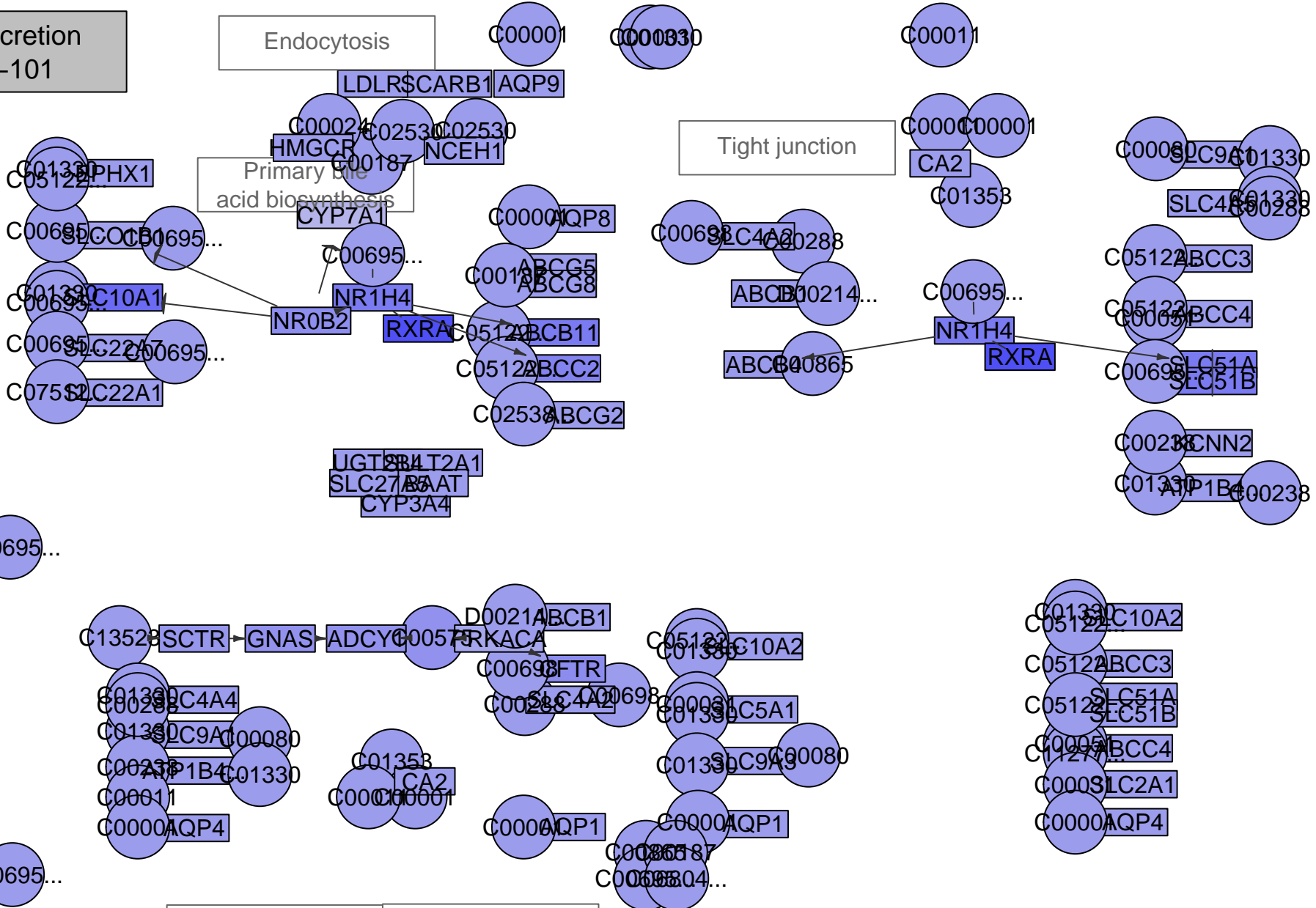
Endocytosis

Primary bile
acid biosynthesis

Tight junction

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-114

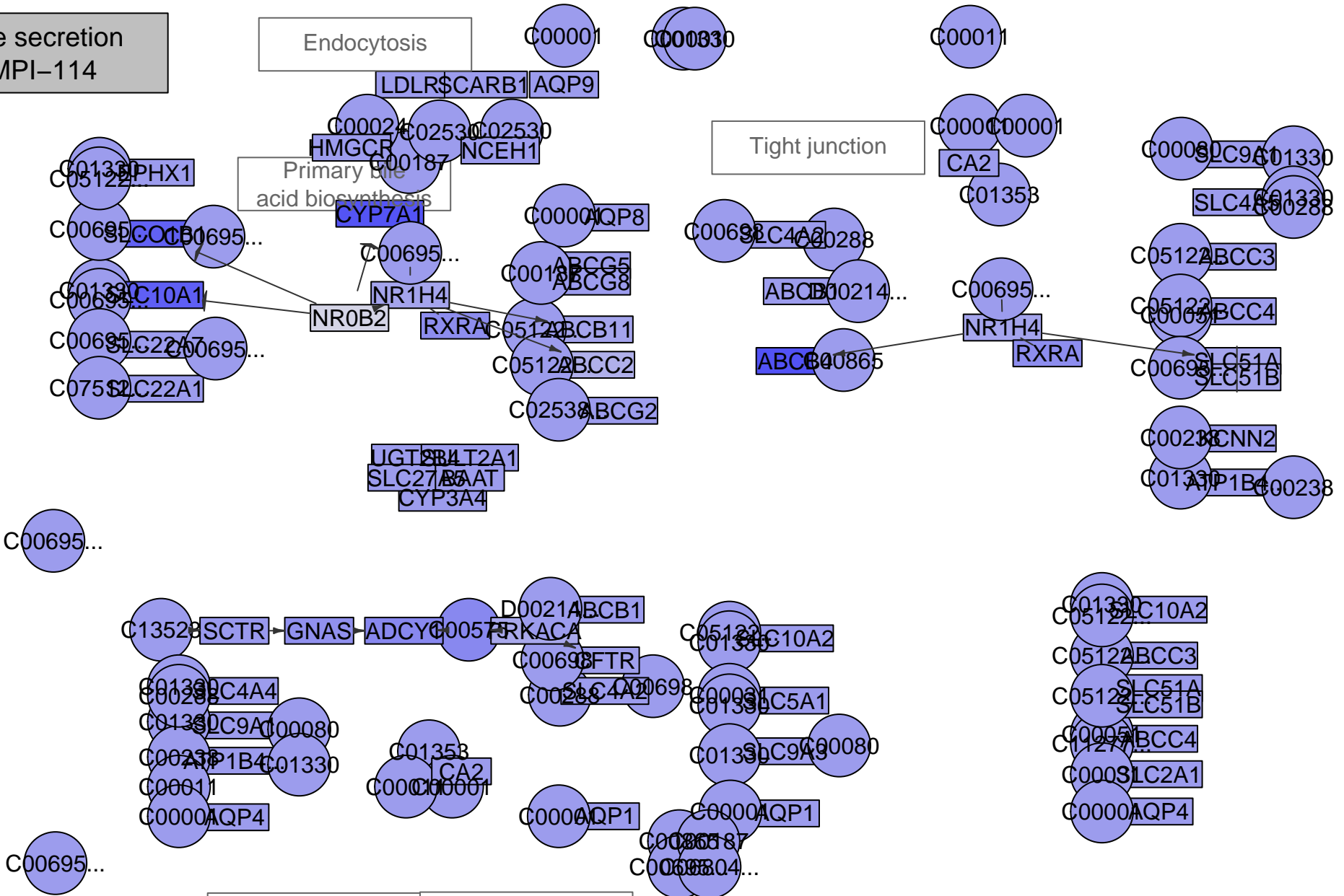
Endocytosis

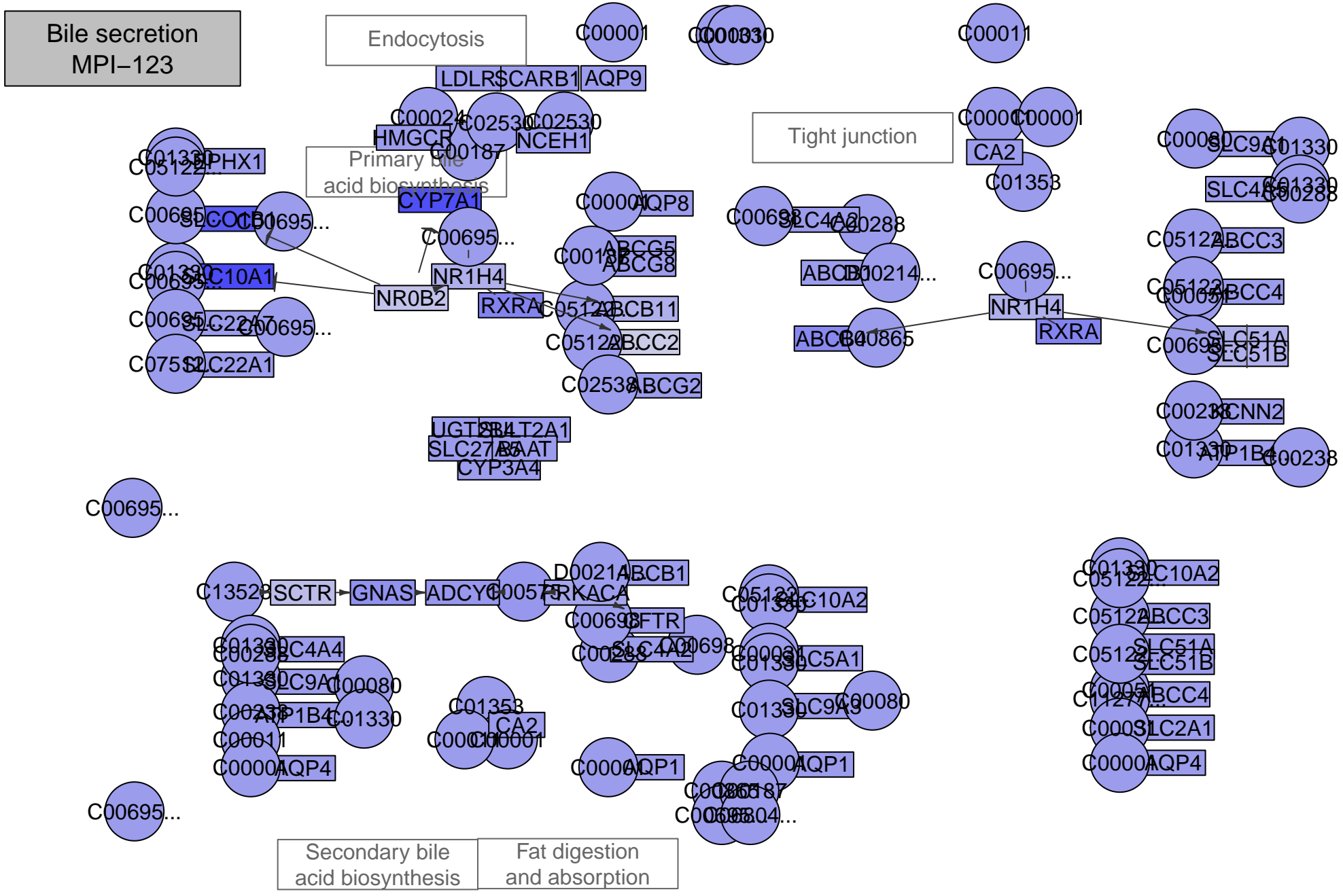
Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption





Bile secretion
MPI-139

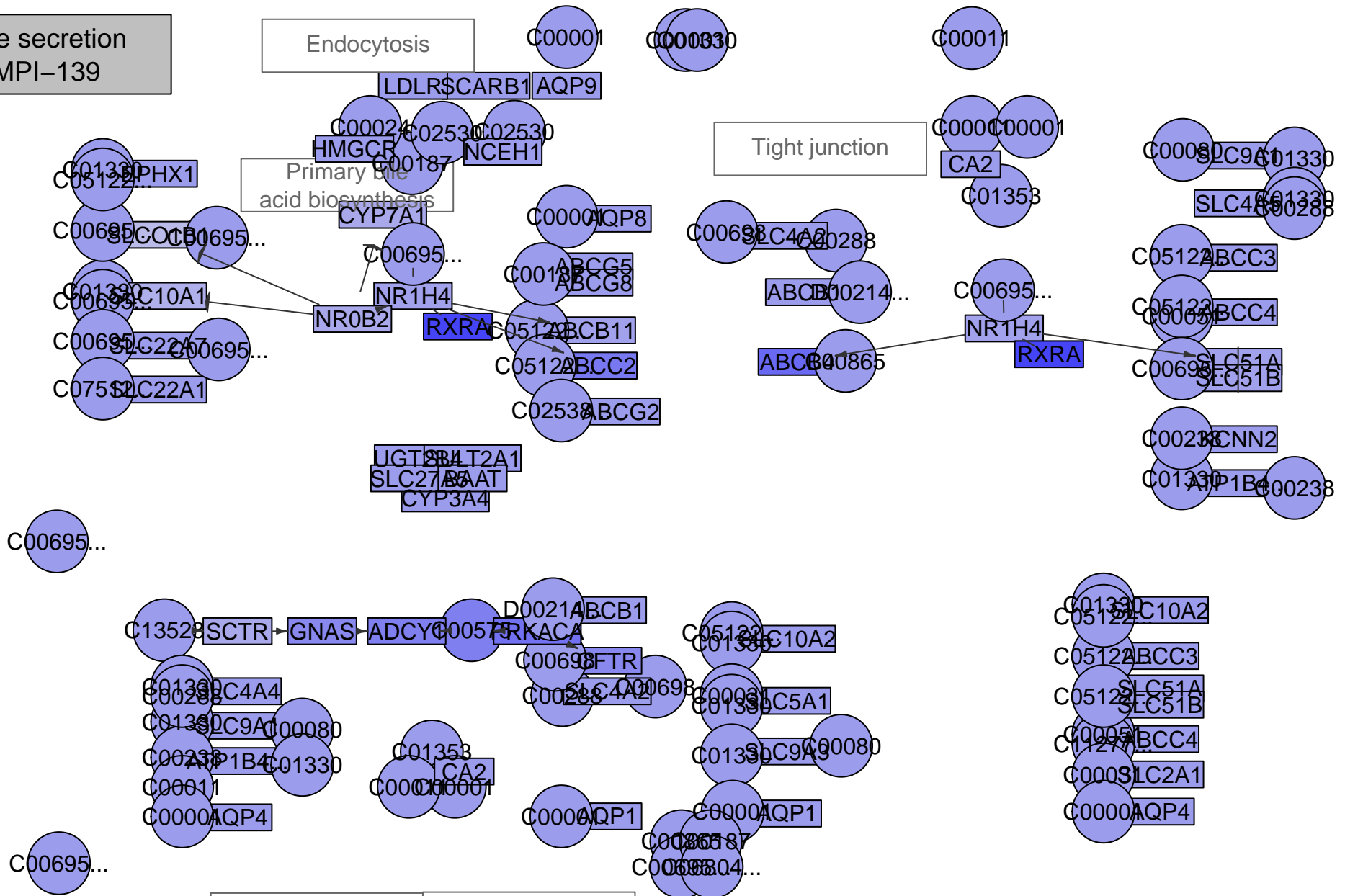
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-140

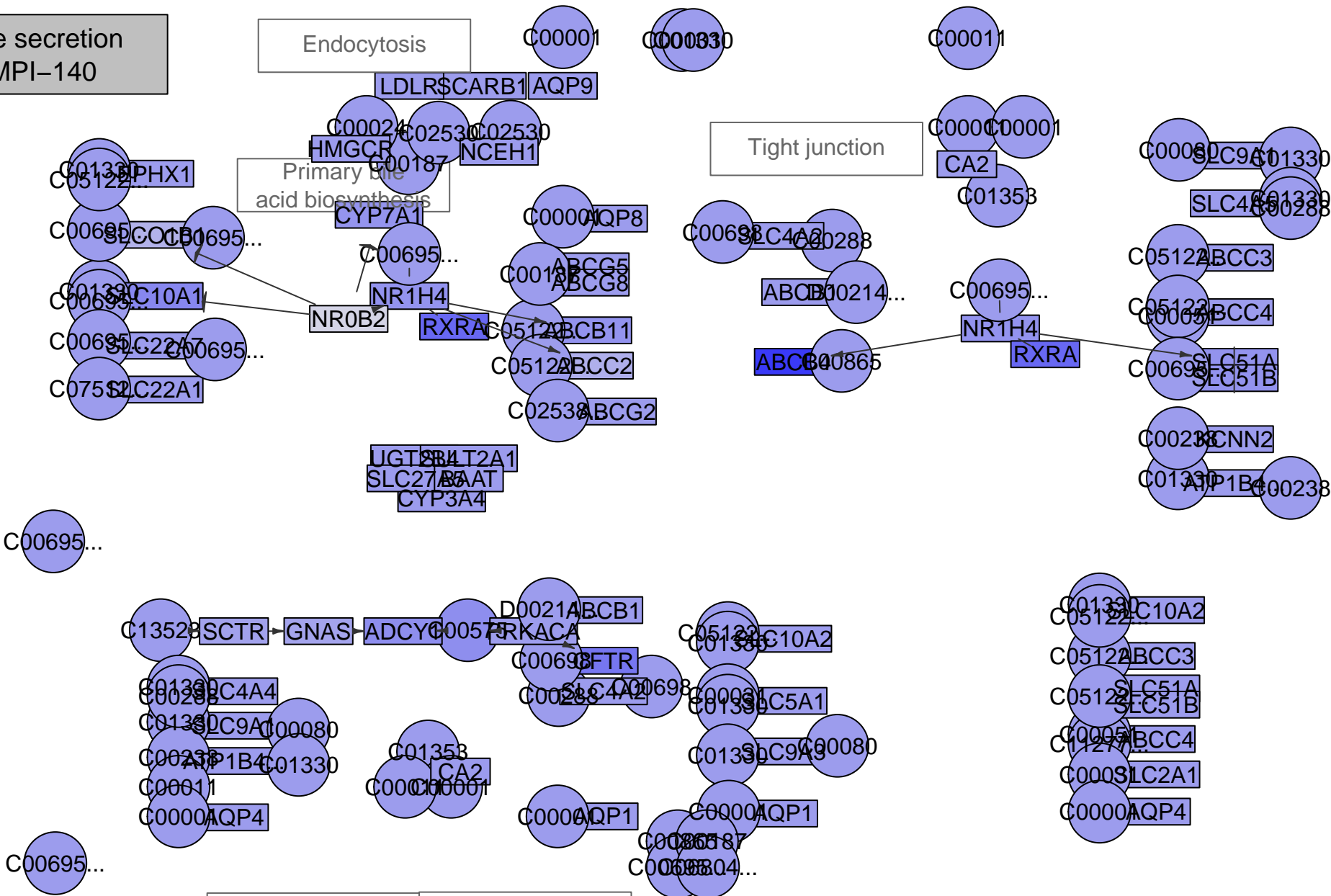
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-147

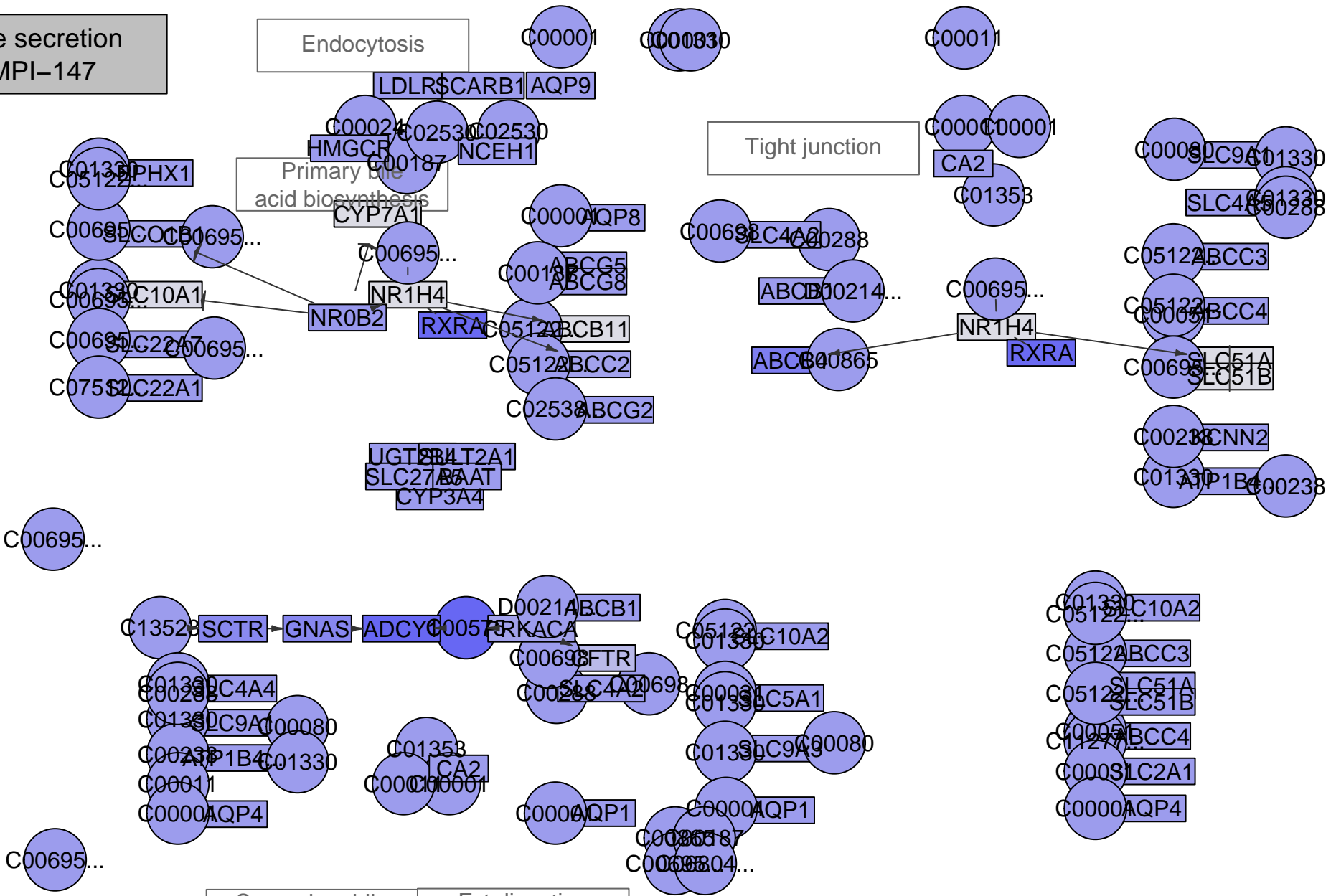
Endocytosis

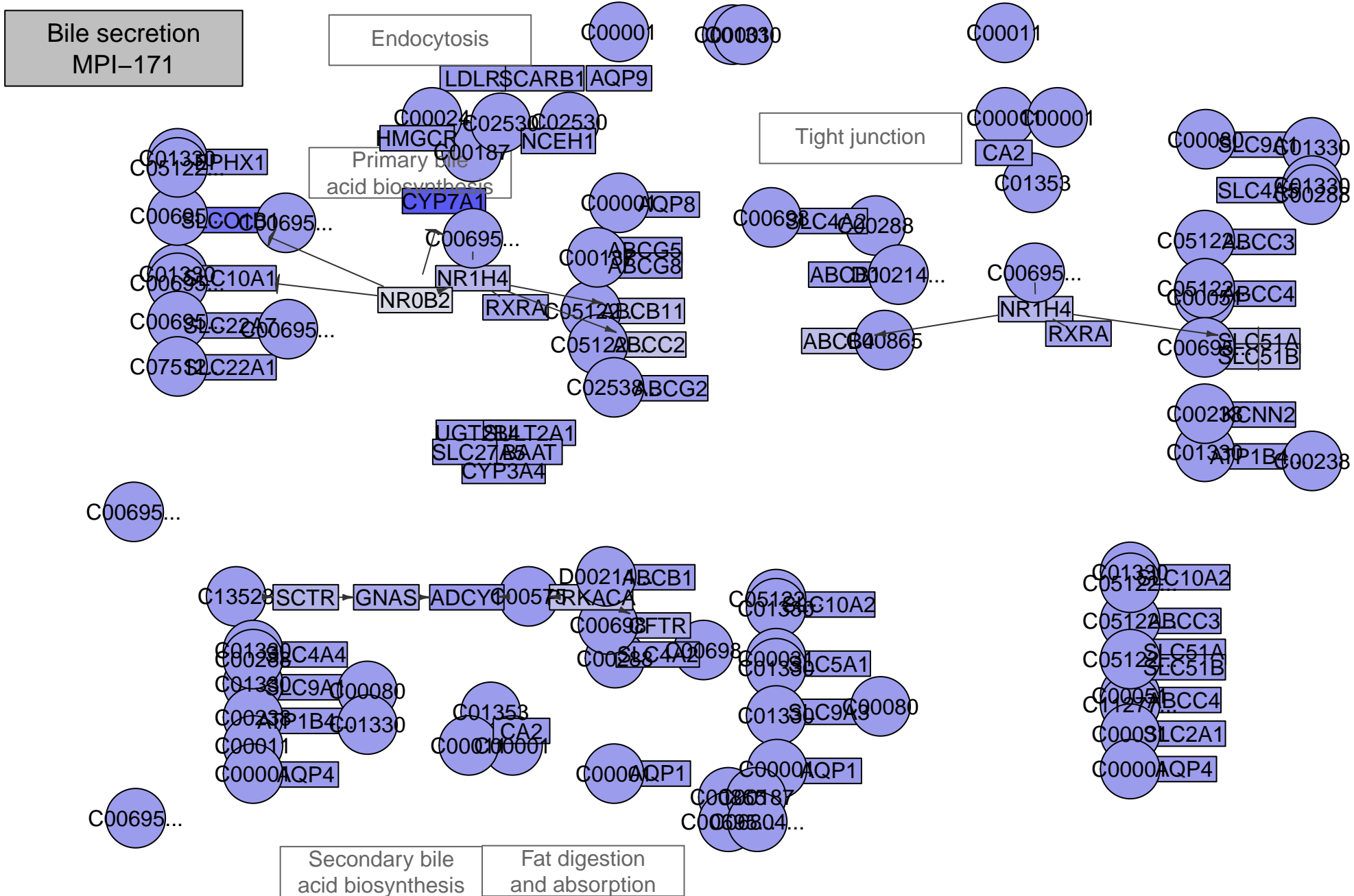
Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption





Bile secretion
MPI-011

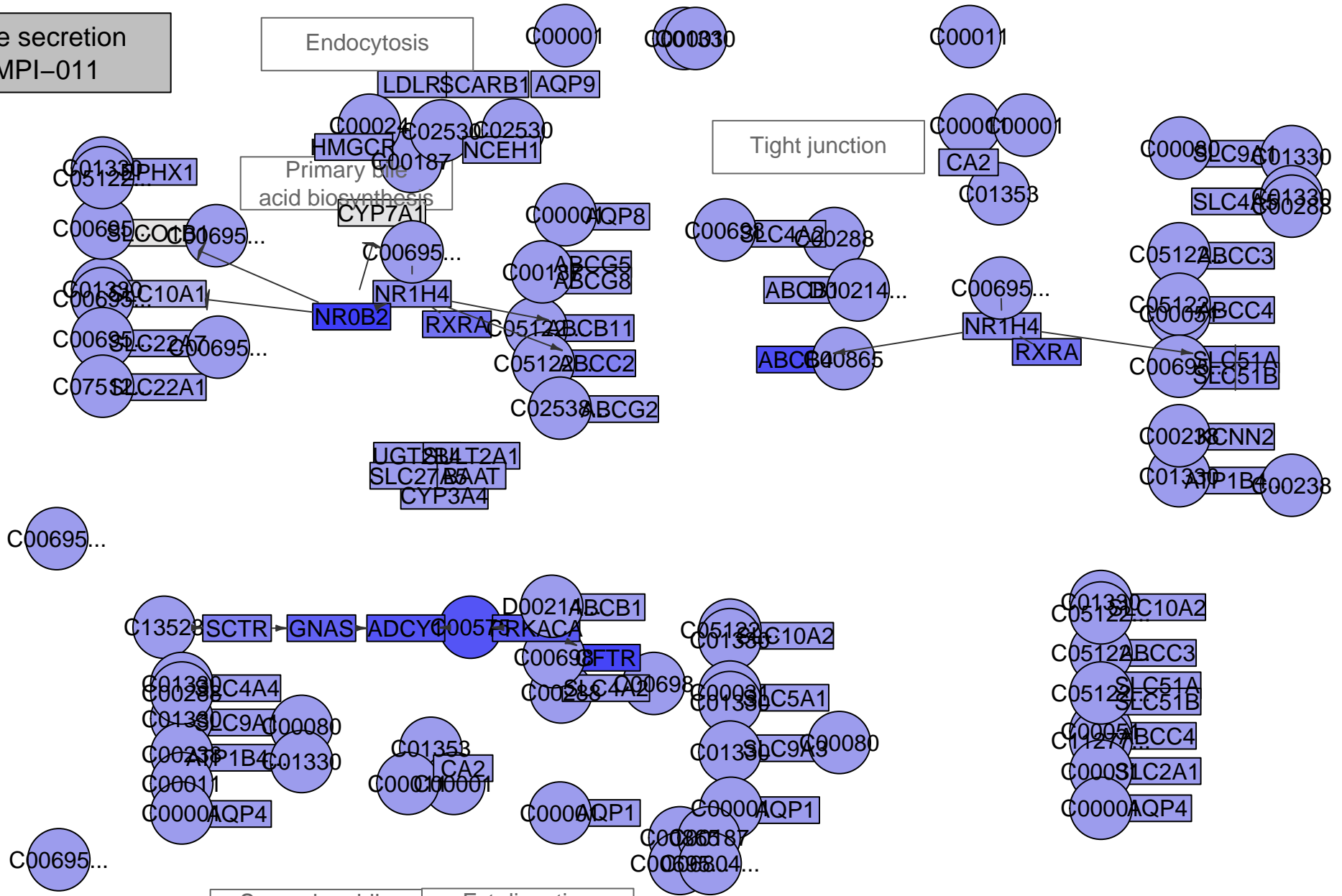
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-024

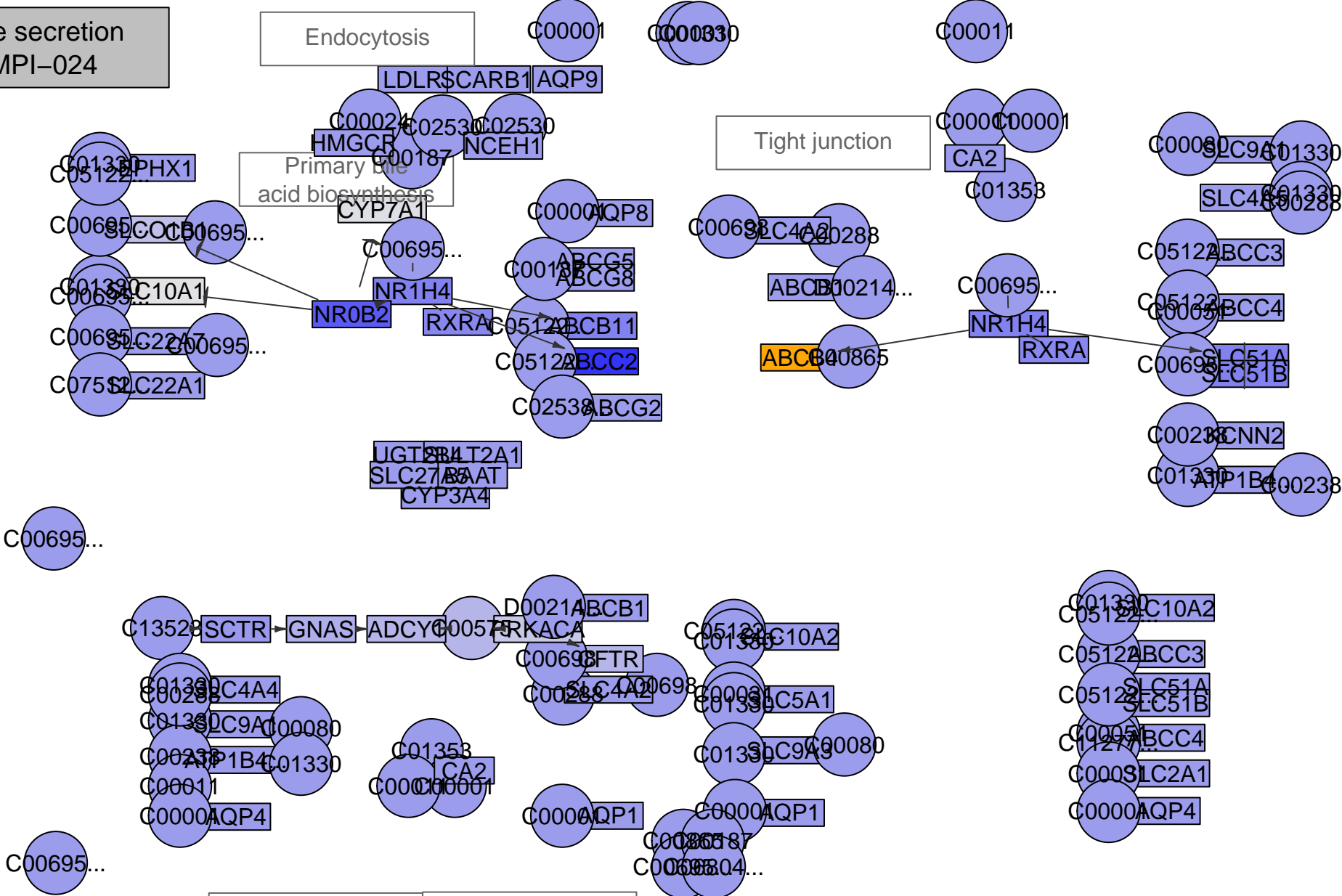
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-026

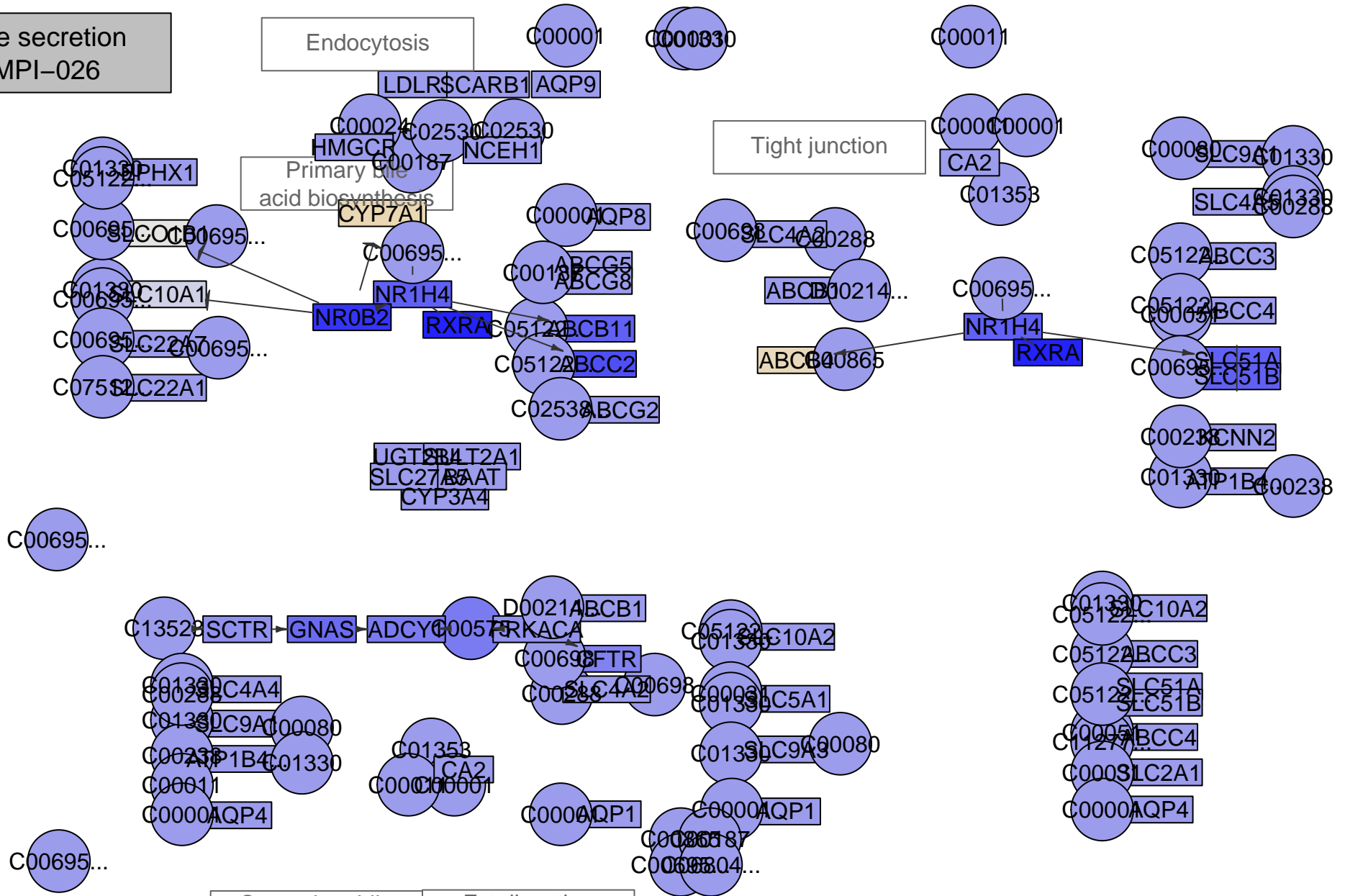
Endocytosis

Primary bile acid biosynthesis

Tight junction

Secondary bile acid biosynthesis

Fat digestion and absorption



C00695...

C00695...

Bile secretion
MPI-036

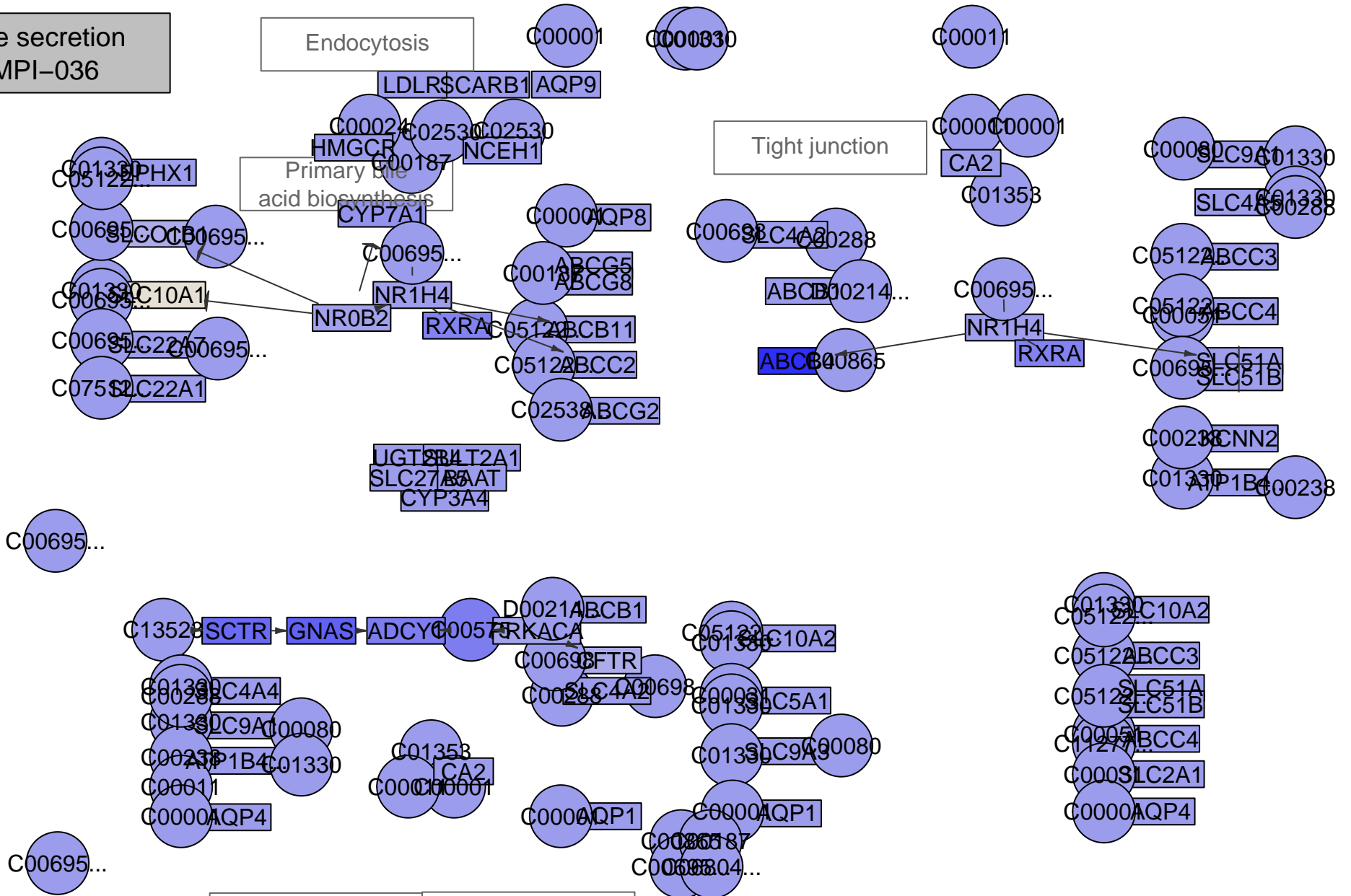
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-038

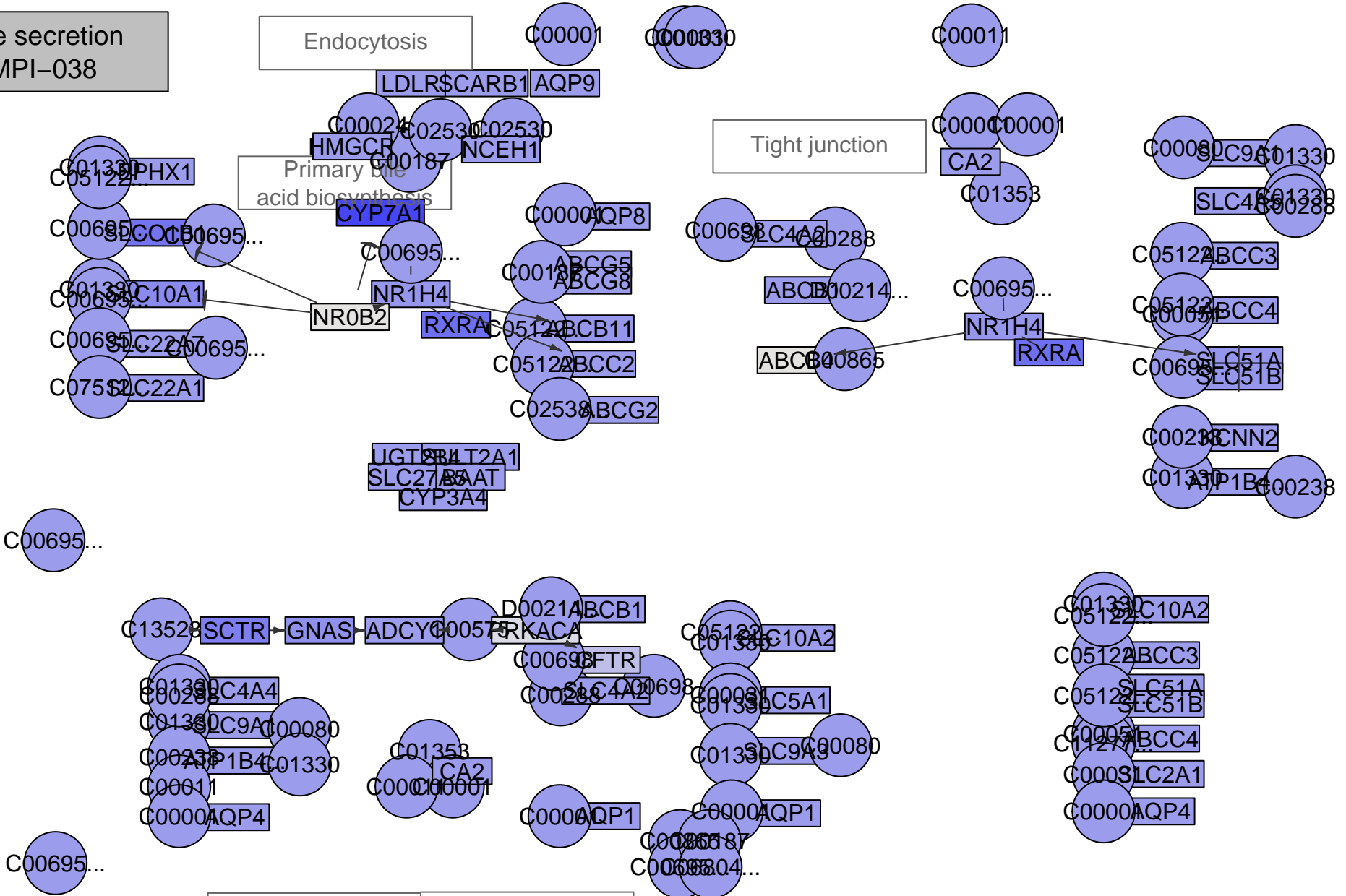
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-046

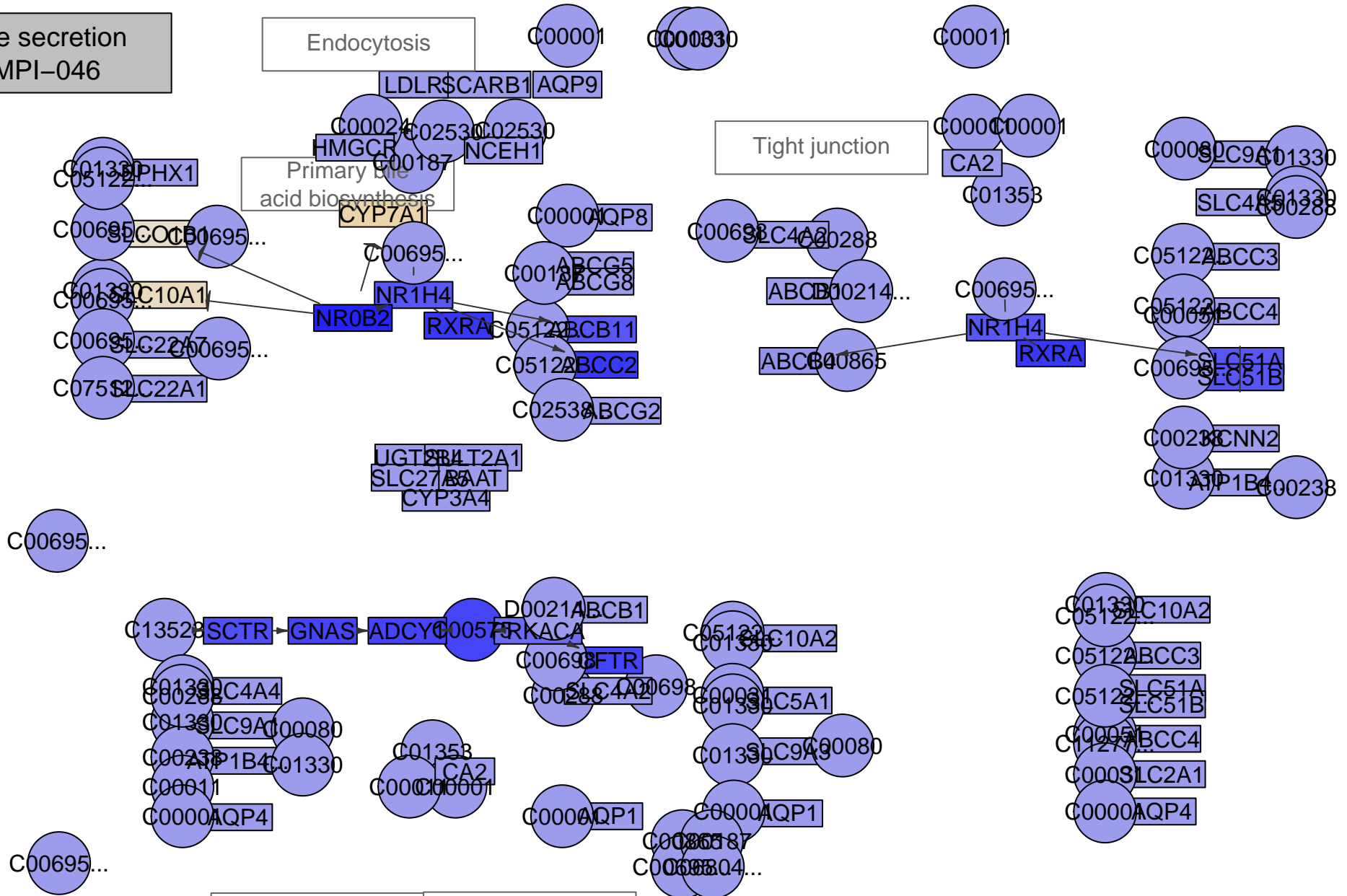
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-059

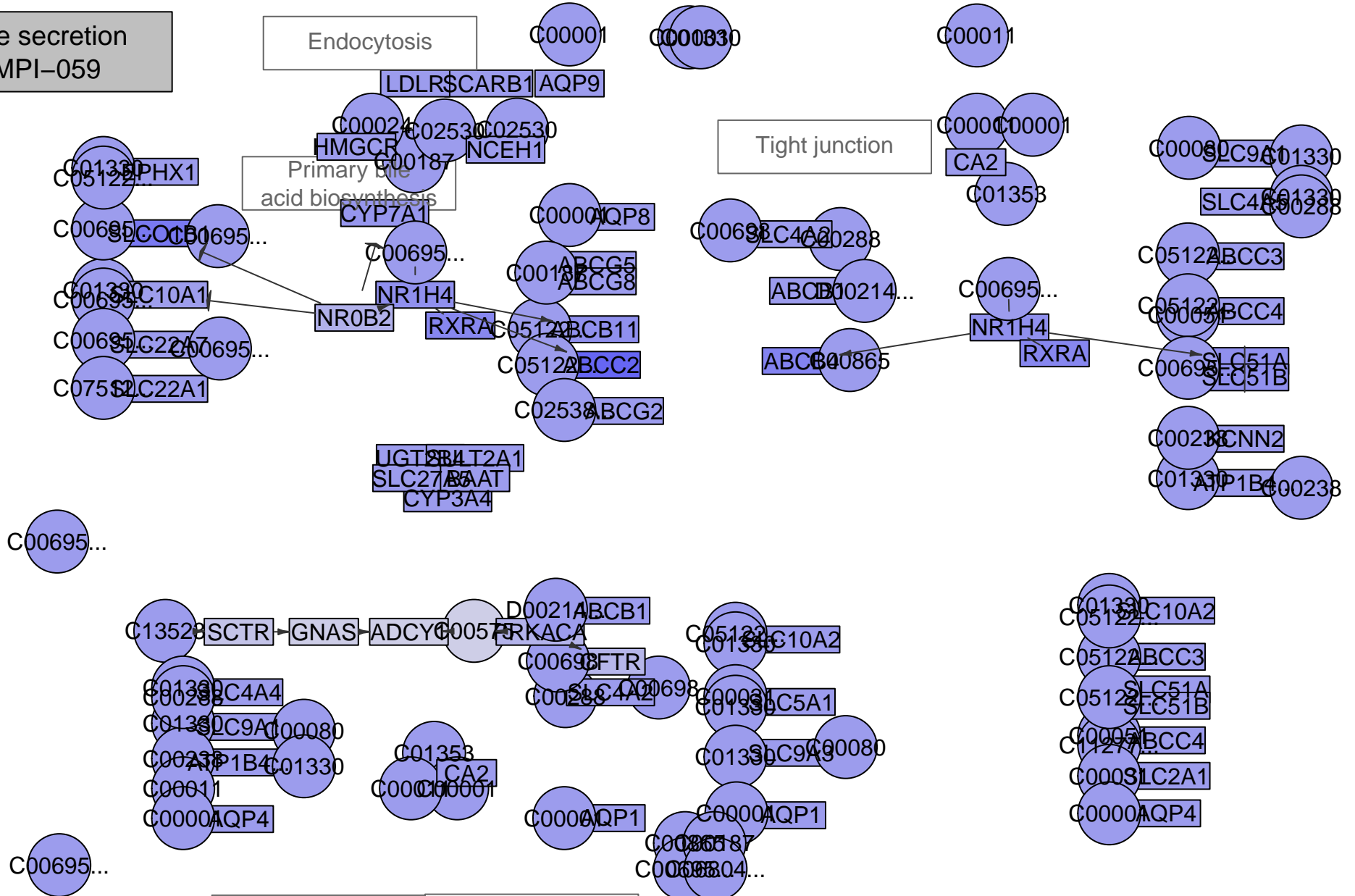
Endocytosis

Primary bile
acid biosynthesis

Tight junction

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-060

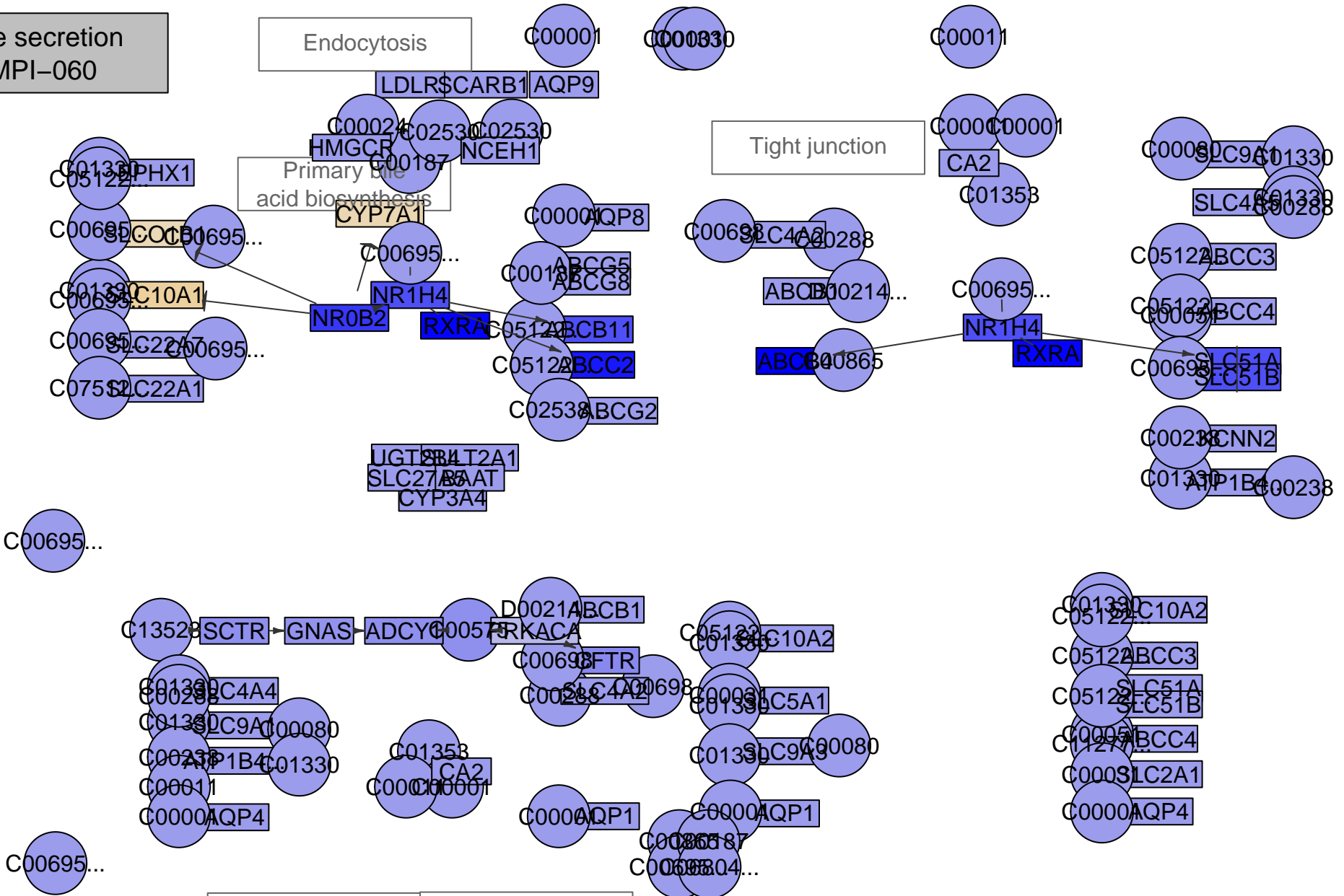
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-061

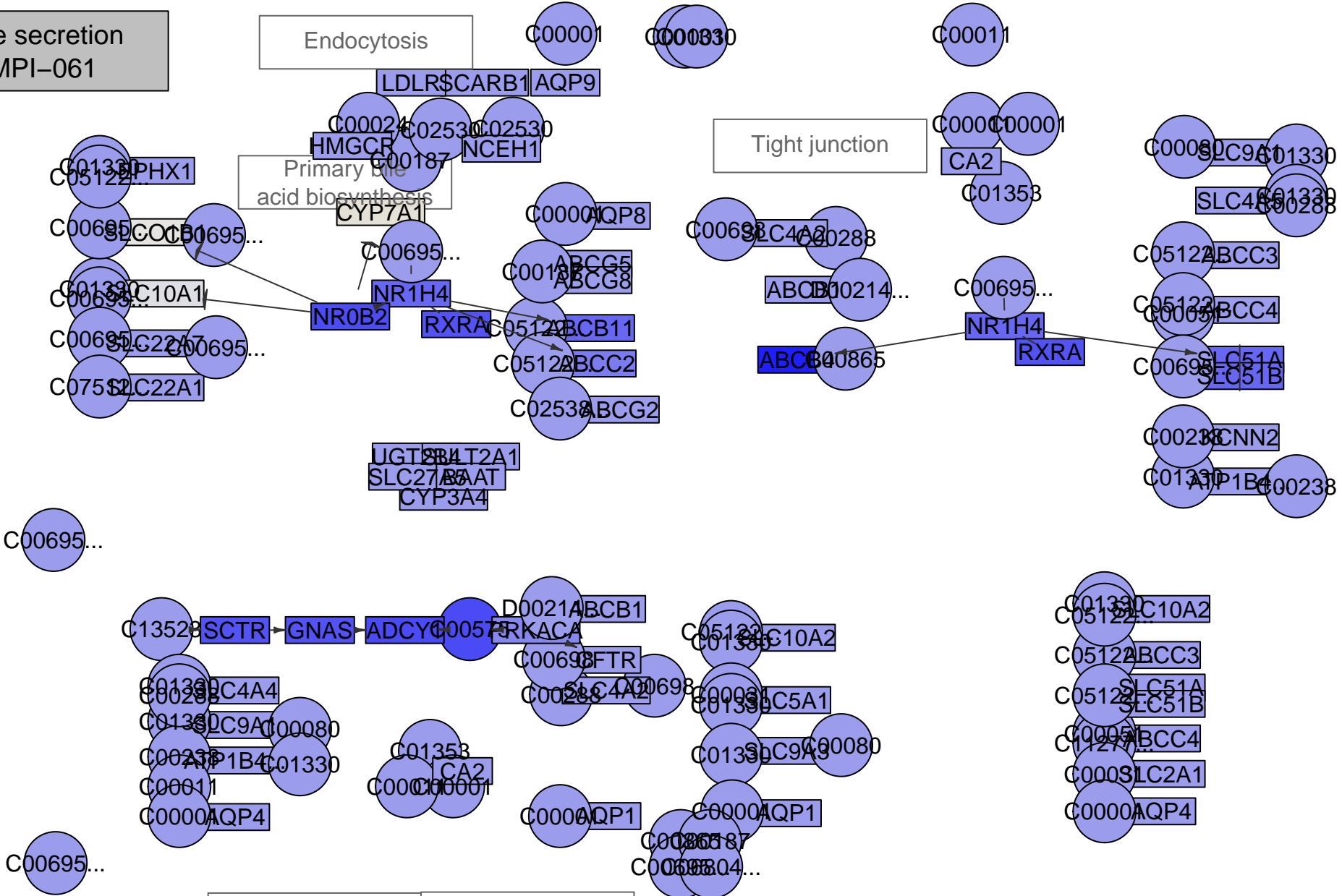
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-064

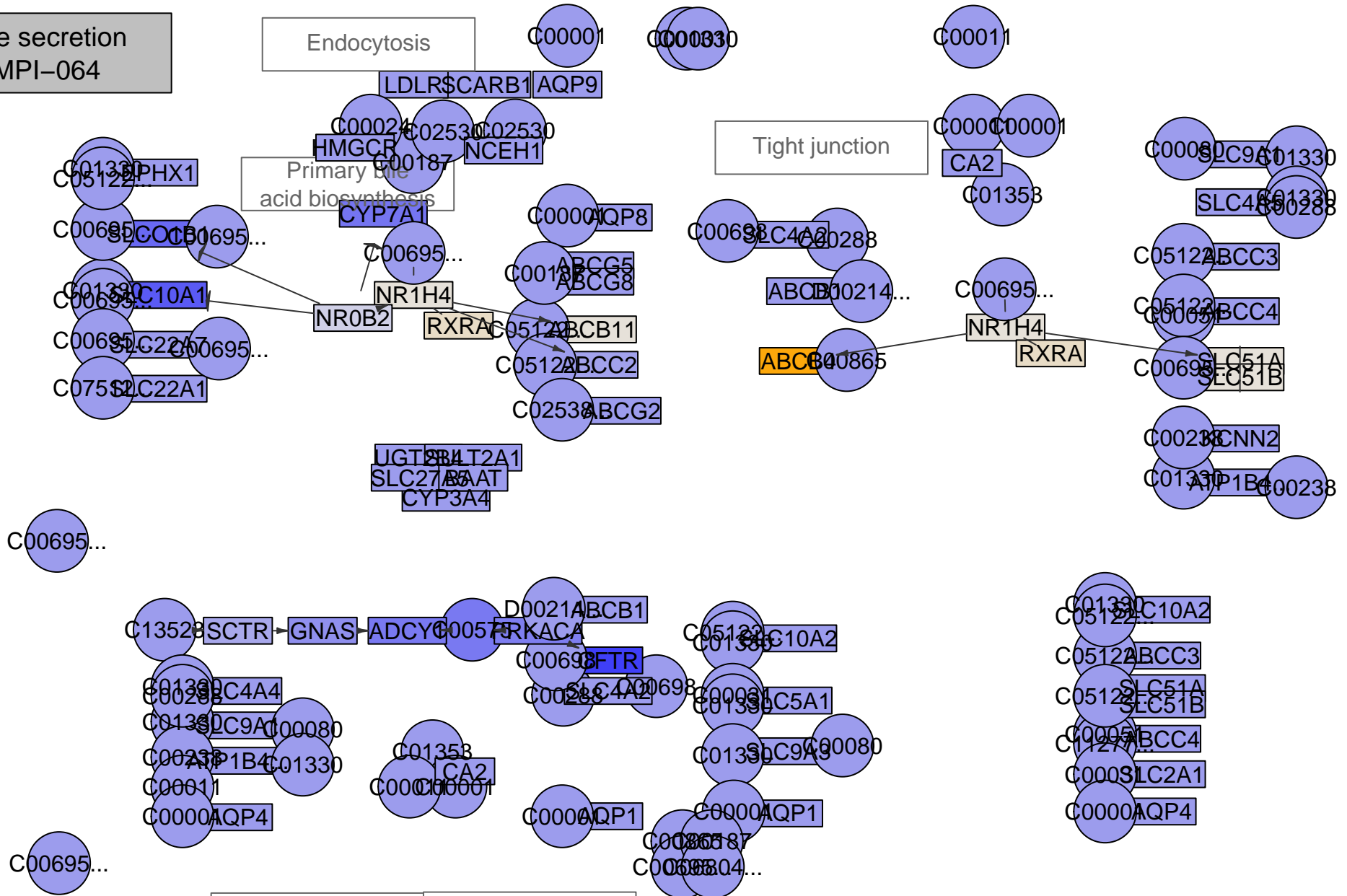
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-070

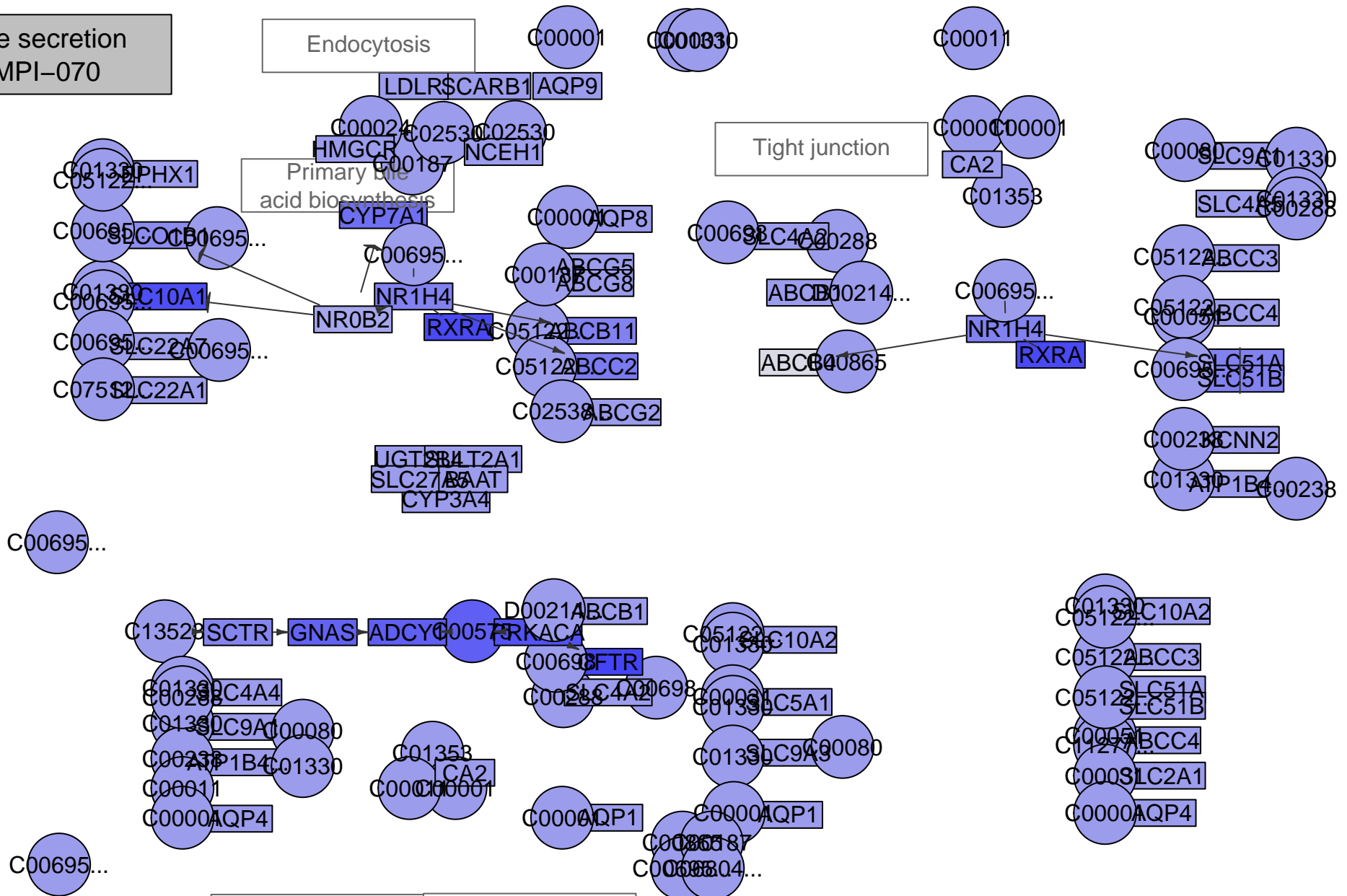
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-094

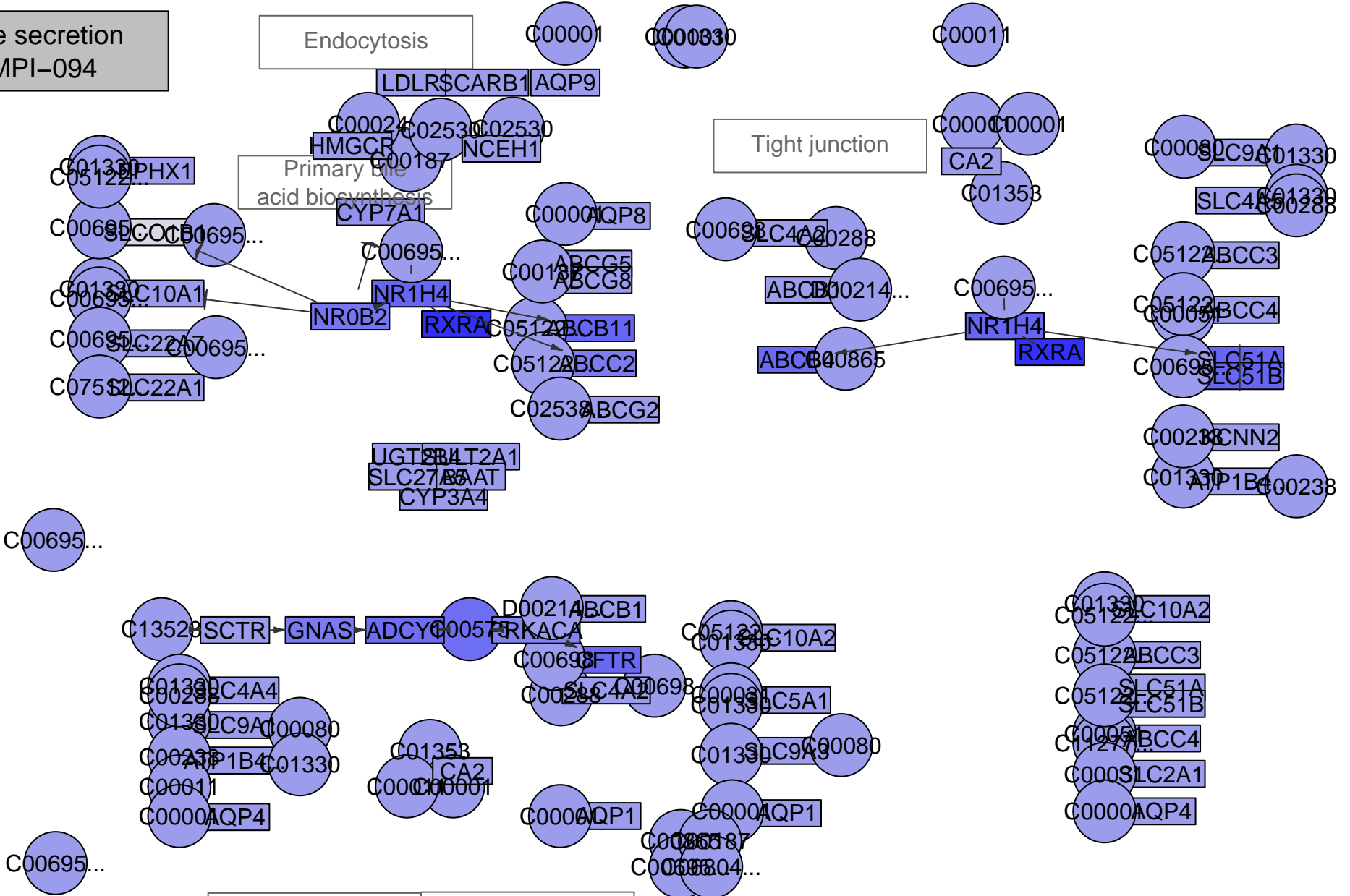
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



C00695...

C00695...

Bile secretion
MPI-104

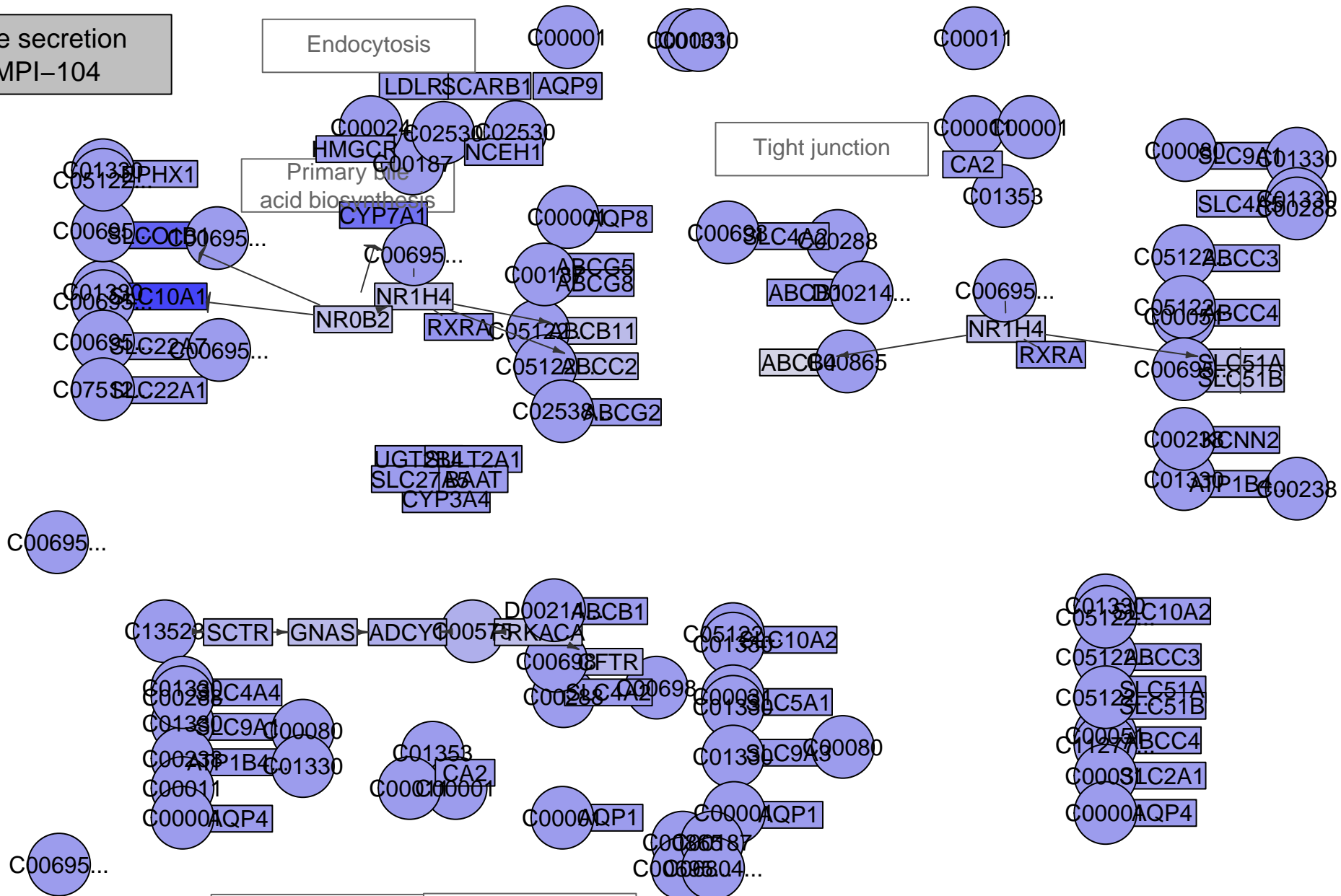
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-107

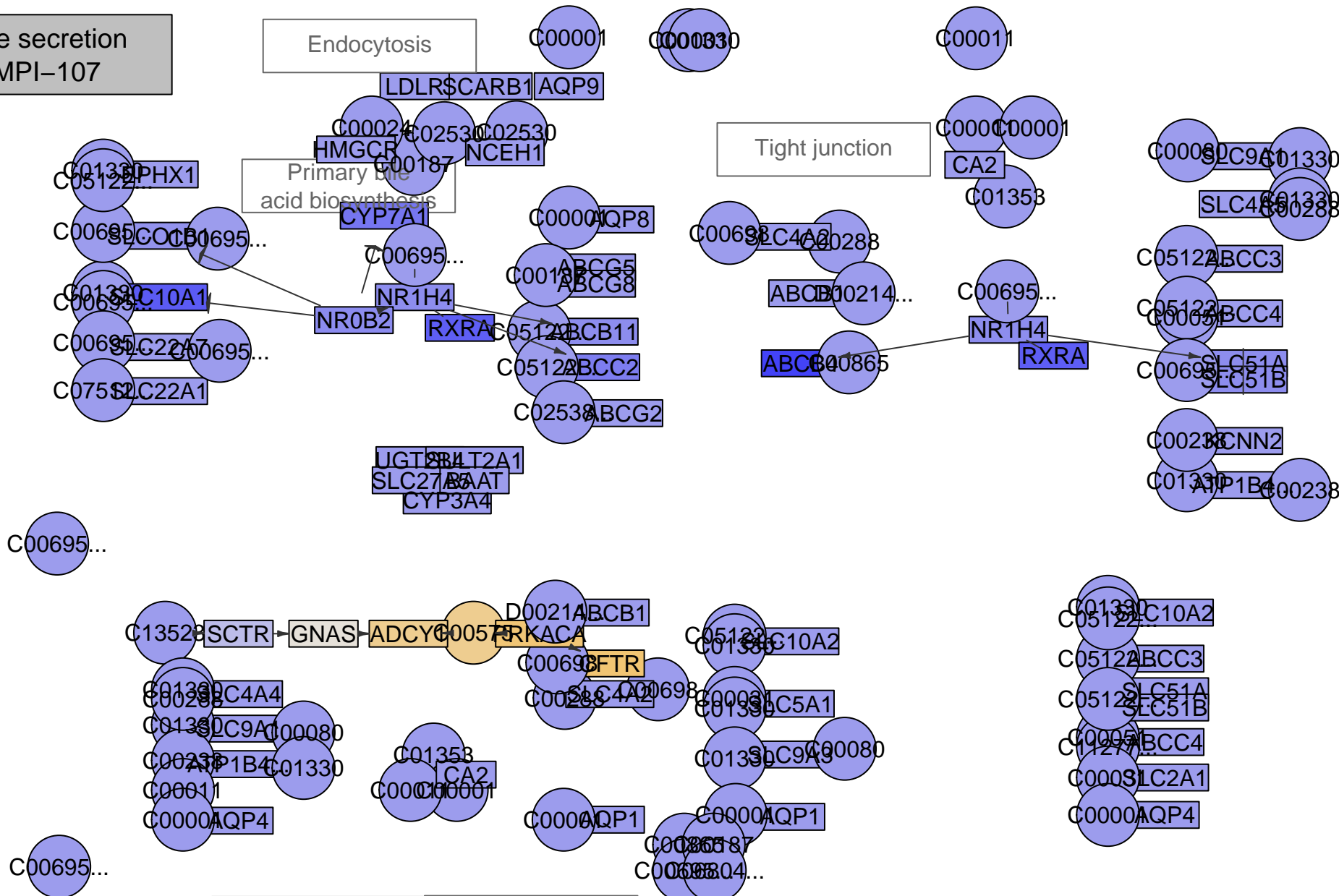
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-112

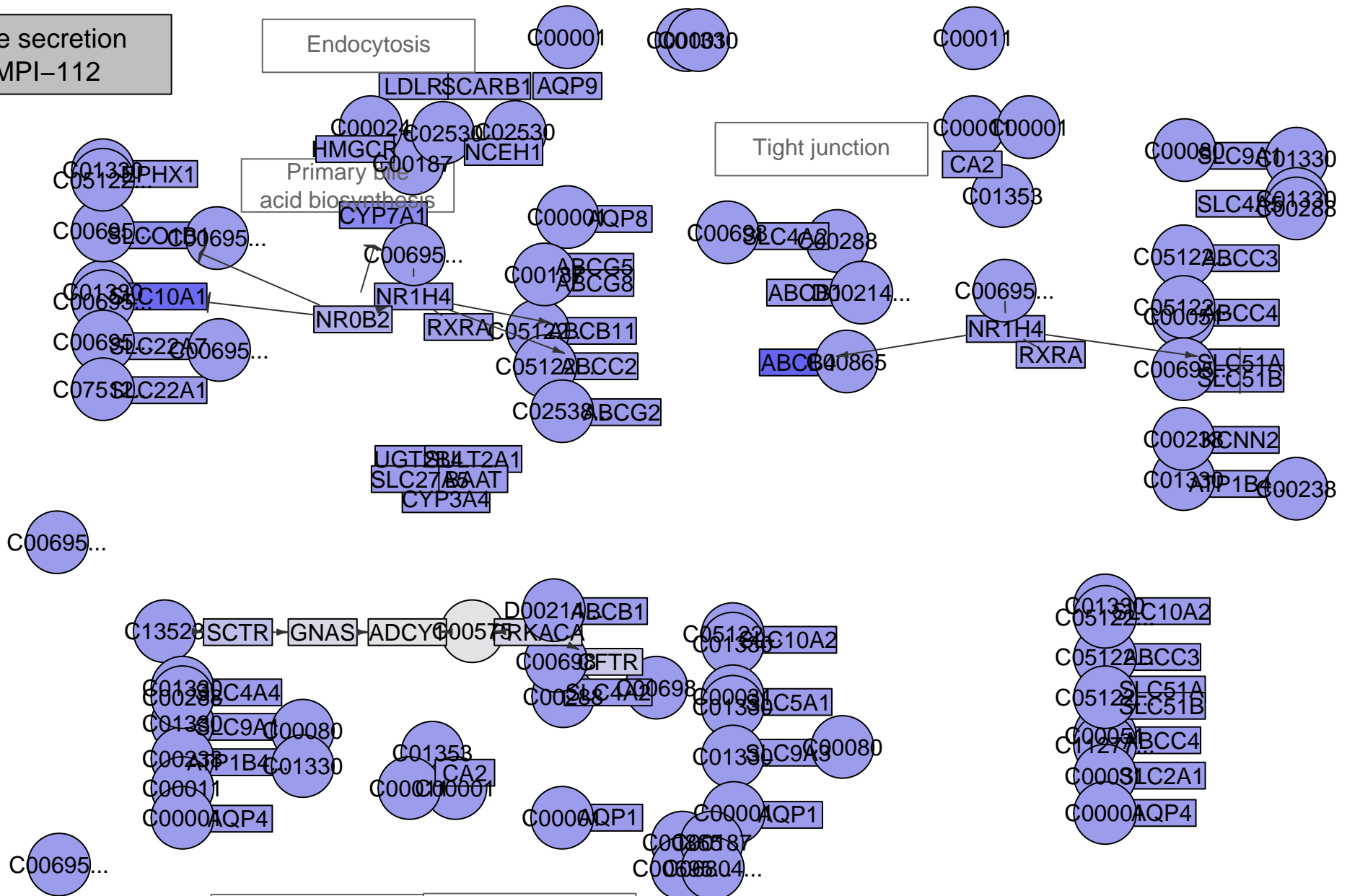
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-116

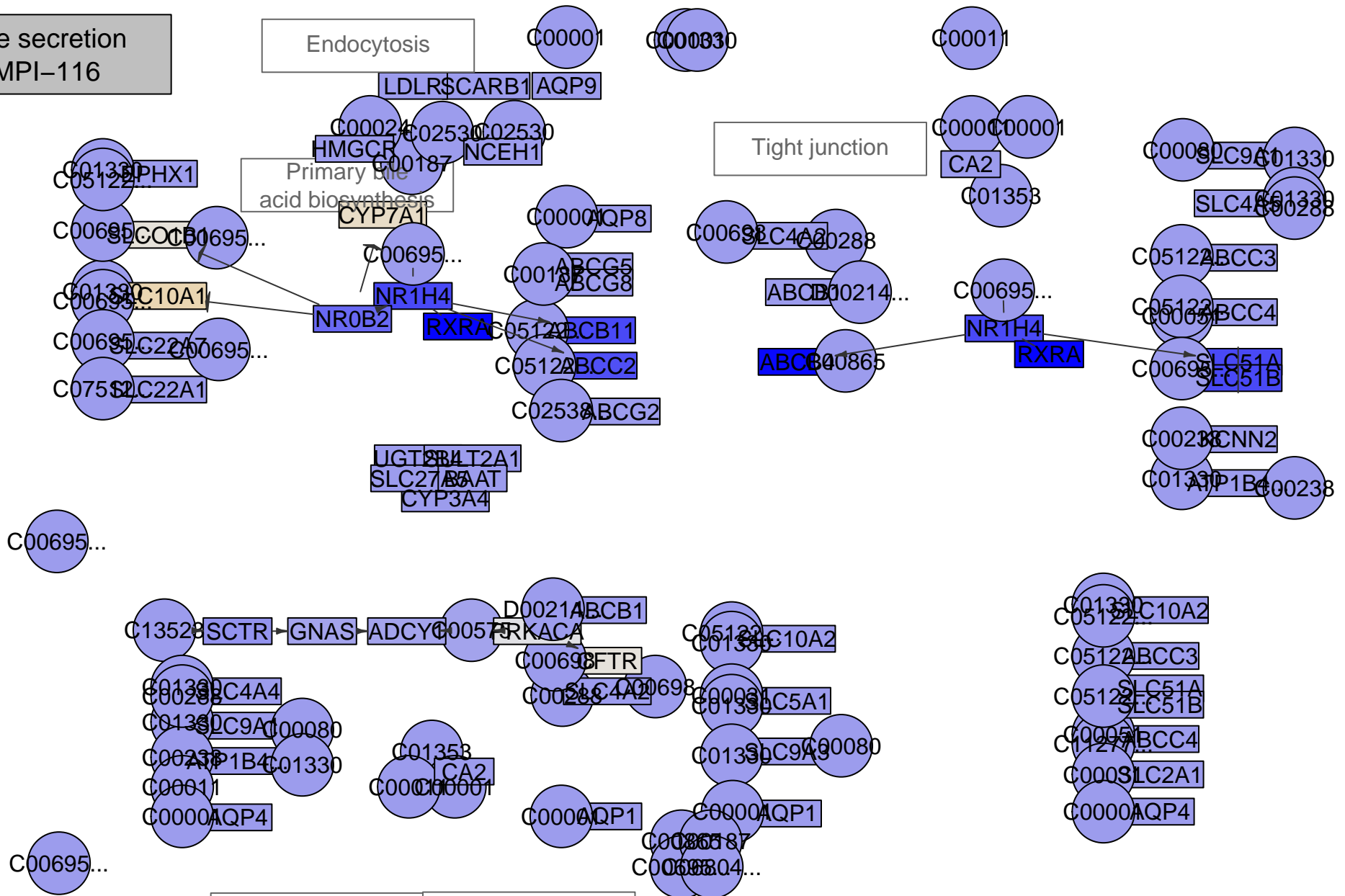
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-120

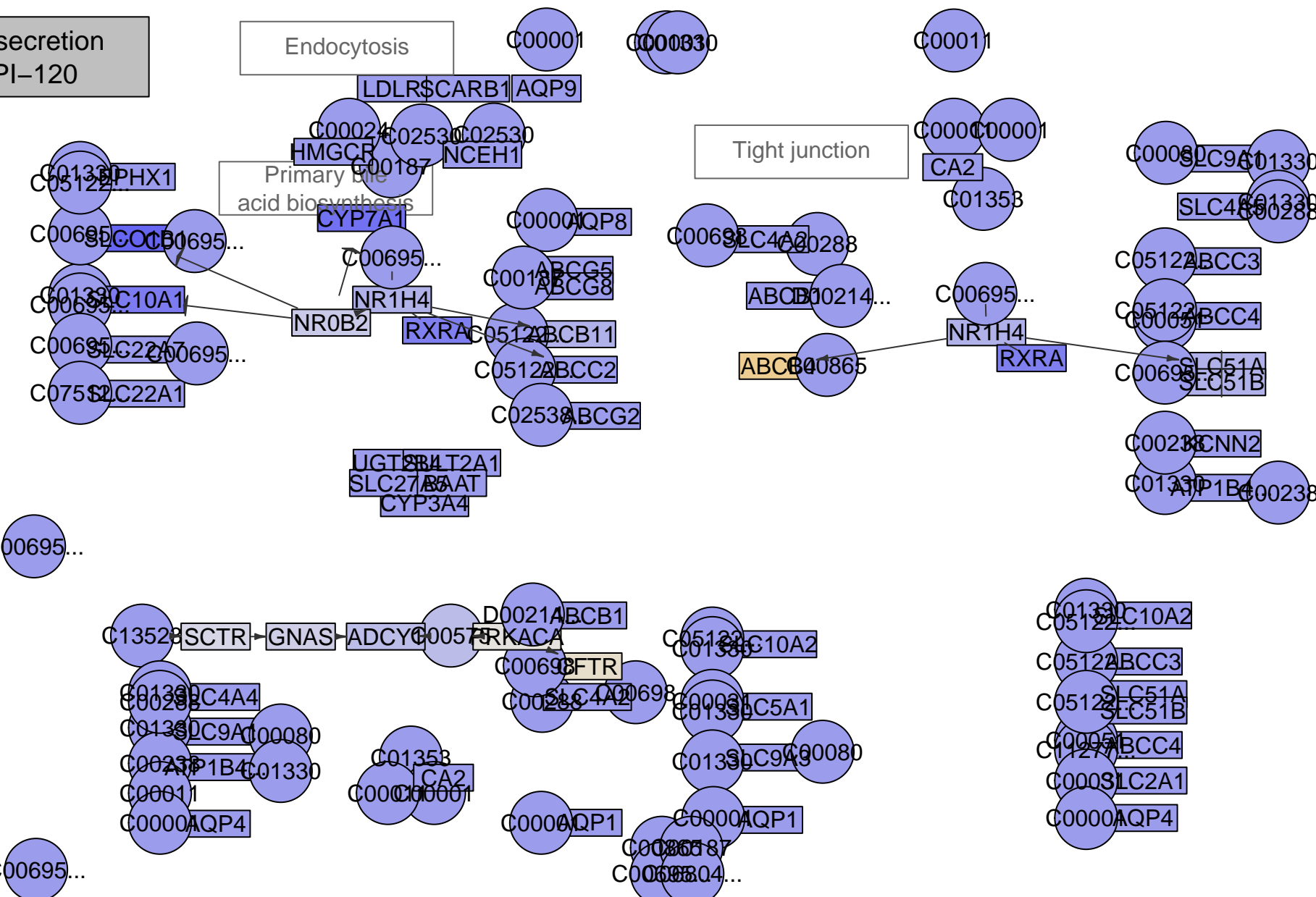
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-124

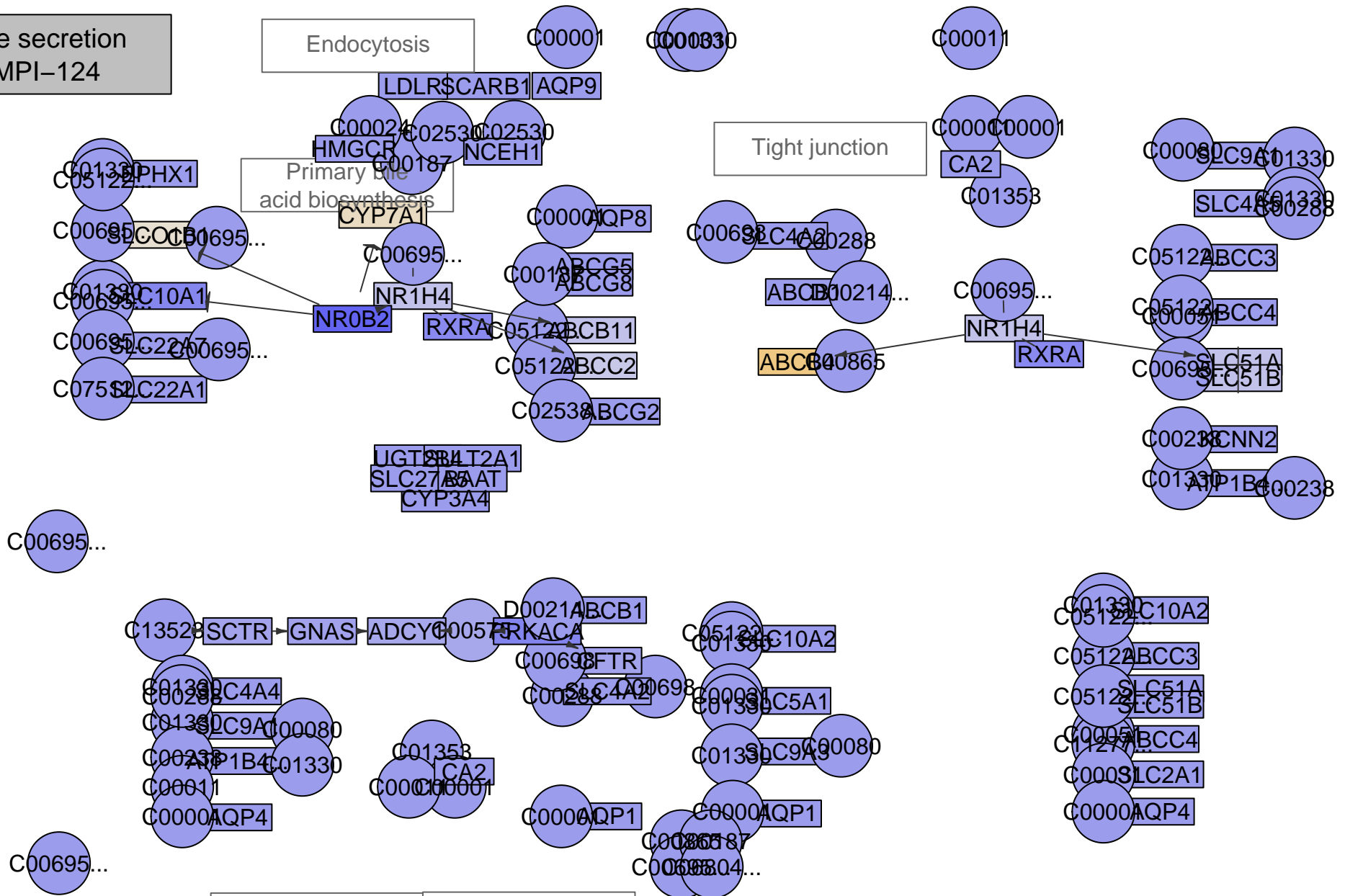
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-126

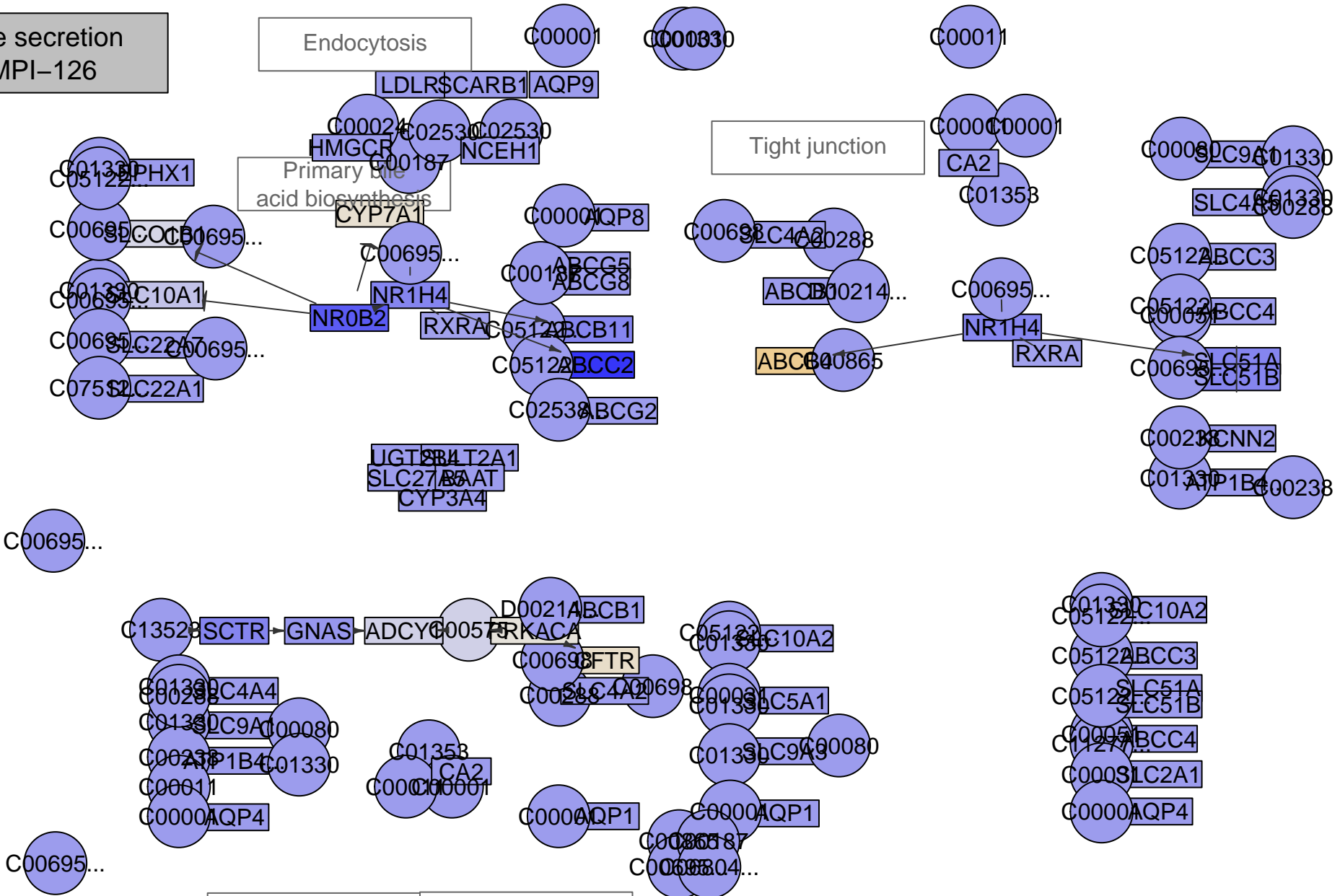
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-131

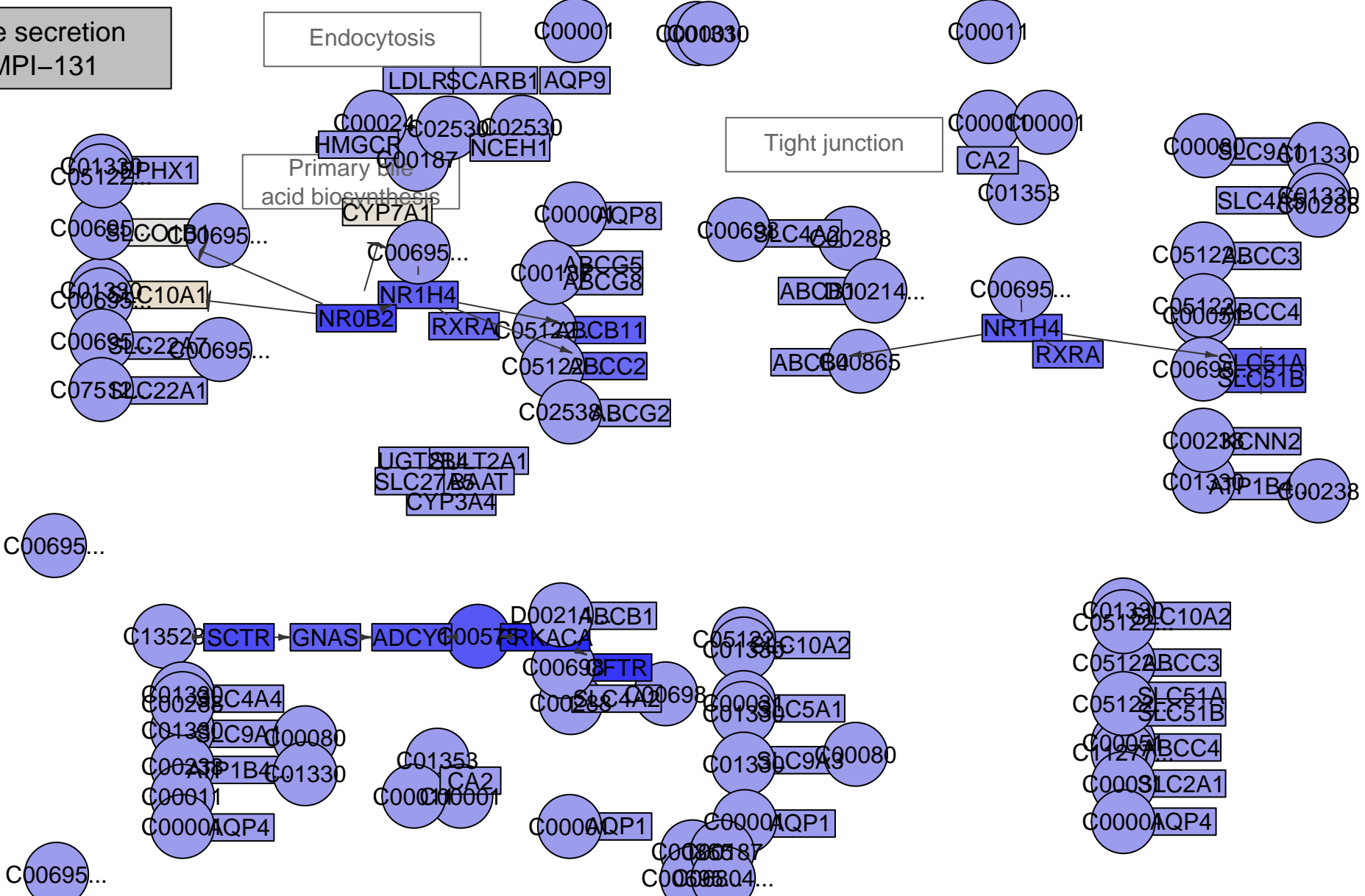
Endocytosis

Primary bile
acid biosynthesis

Tight junction

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-143

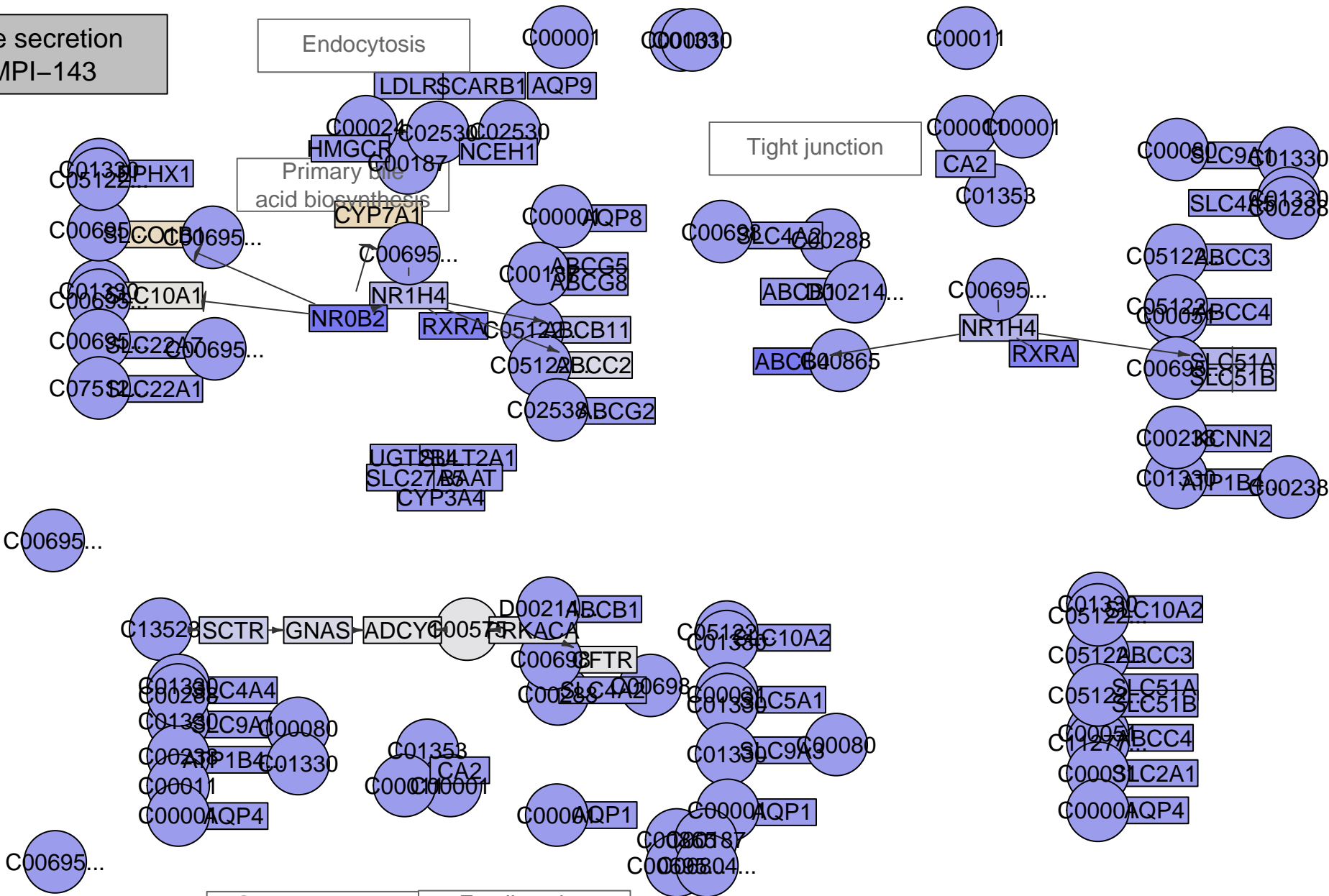
Endocytosis

Primary bile
acid biosynthesis

Tight junction

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-161

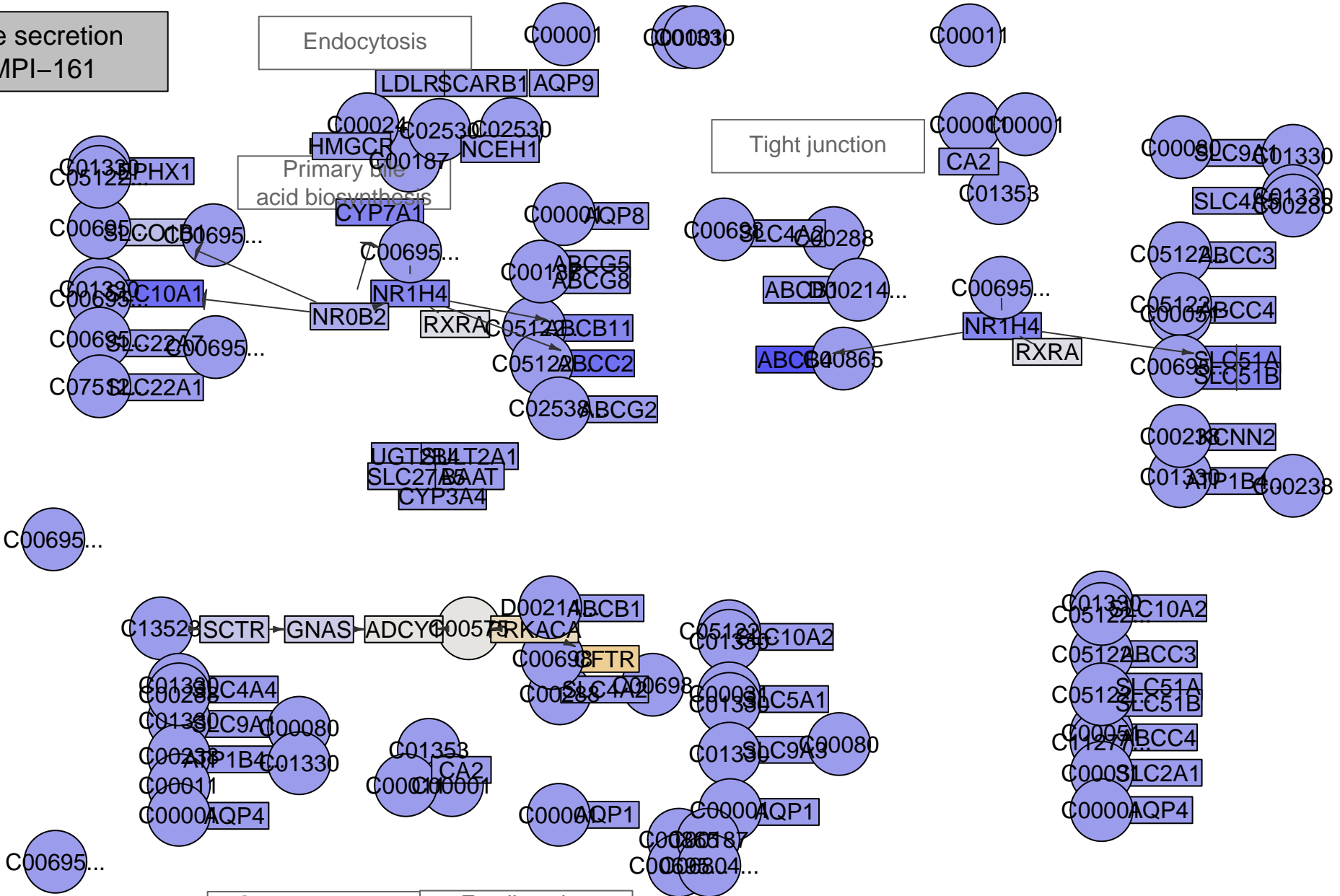
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-165

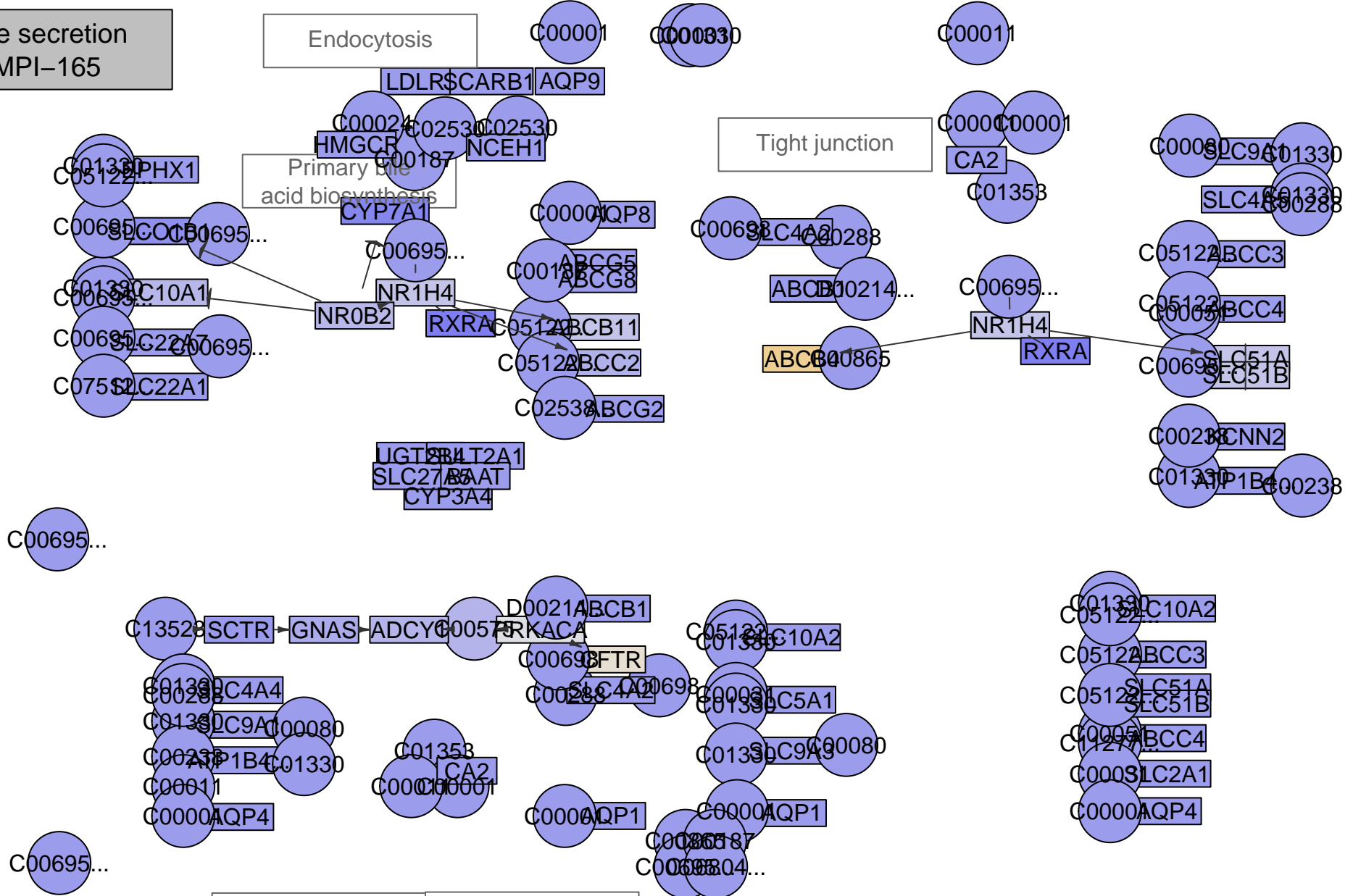
Endocytosis

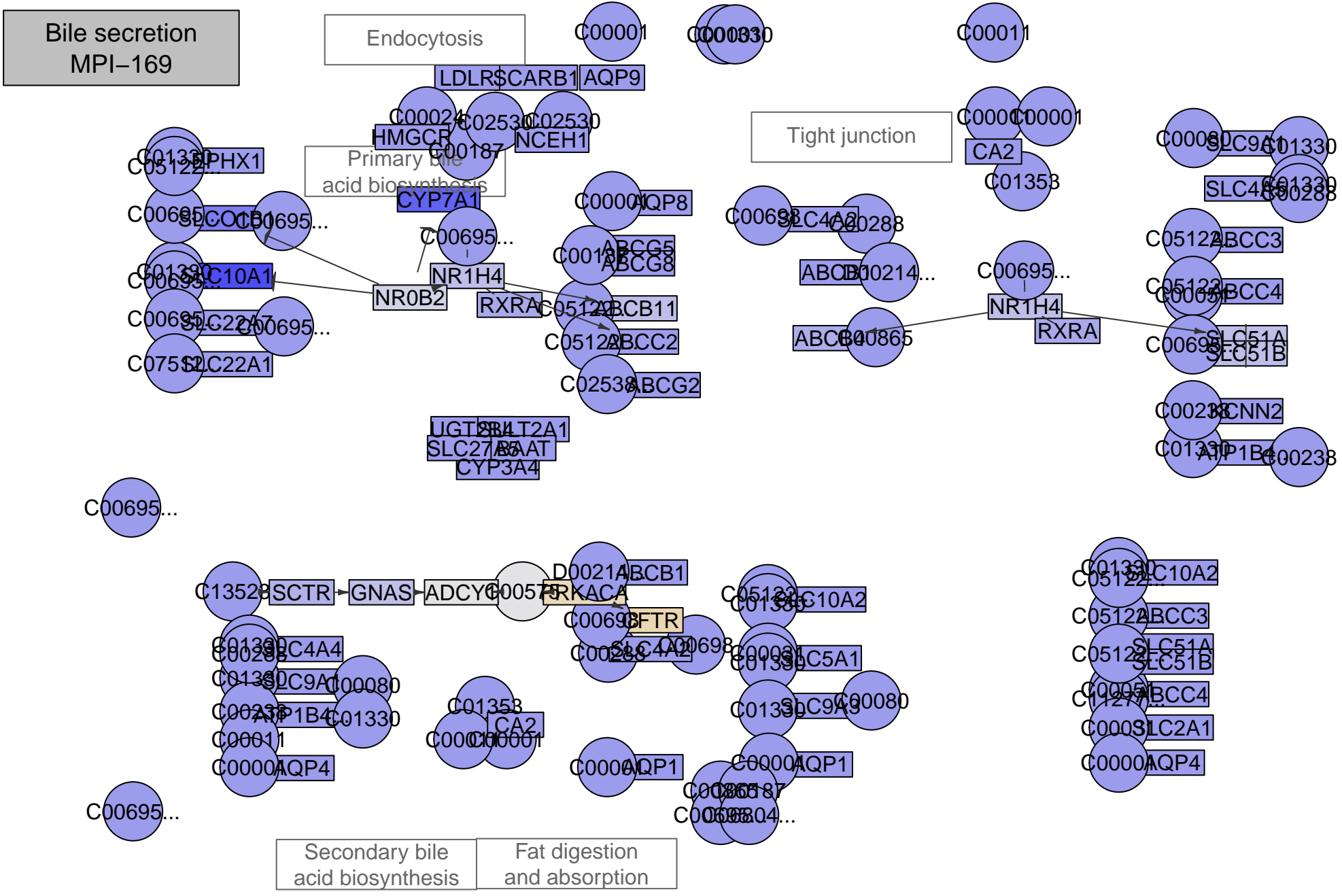
Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption





Bile secretion
MPI-193

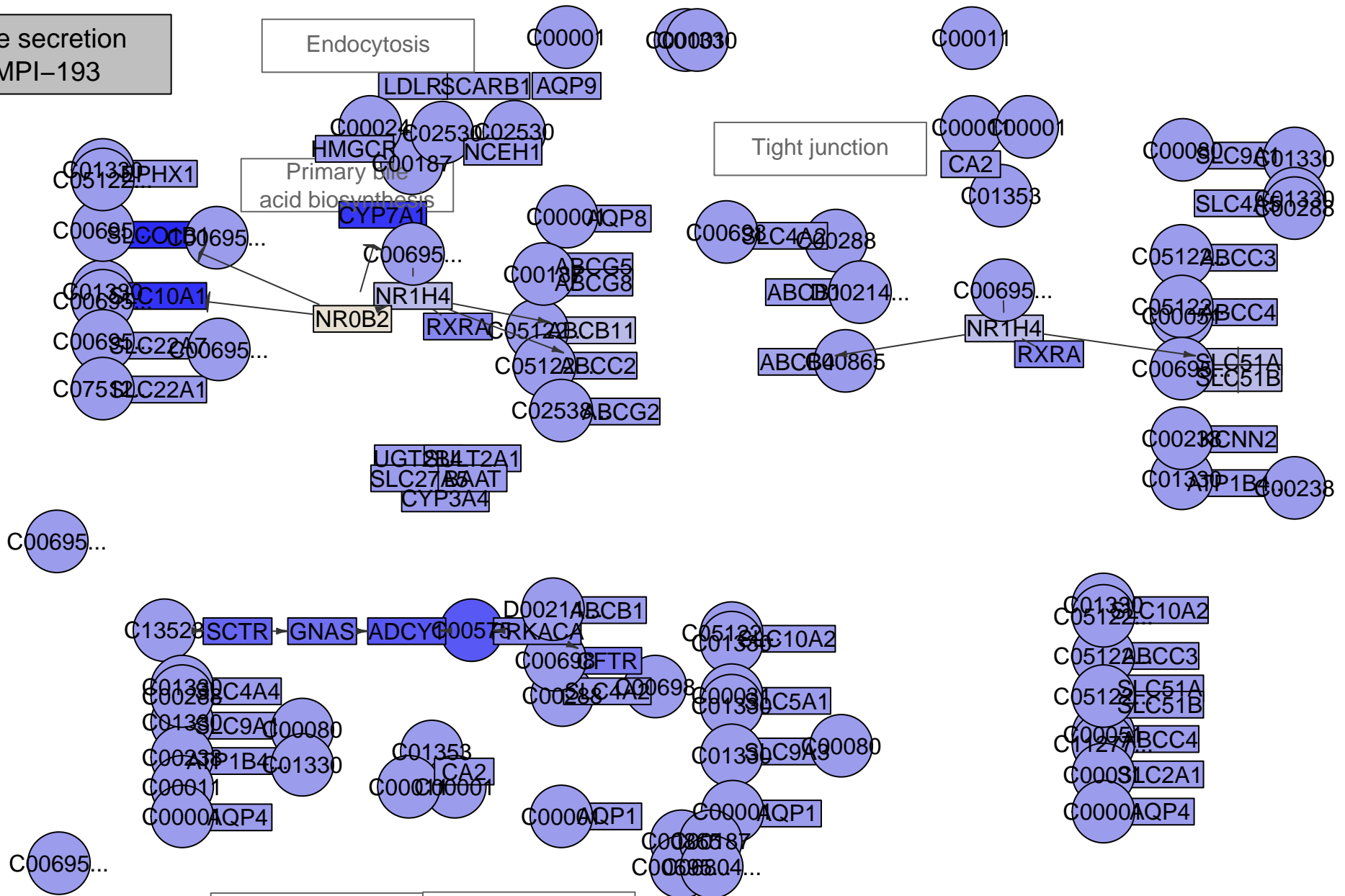
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-216

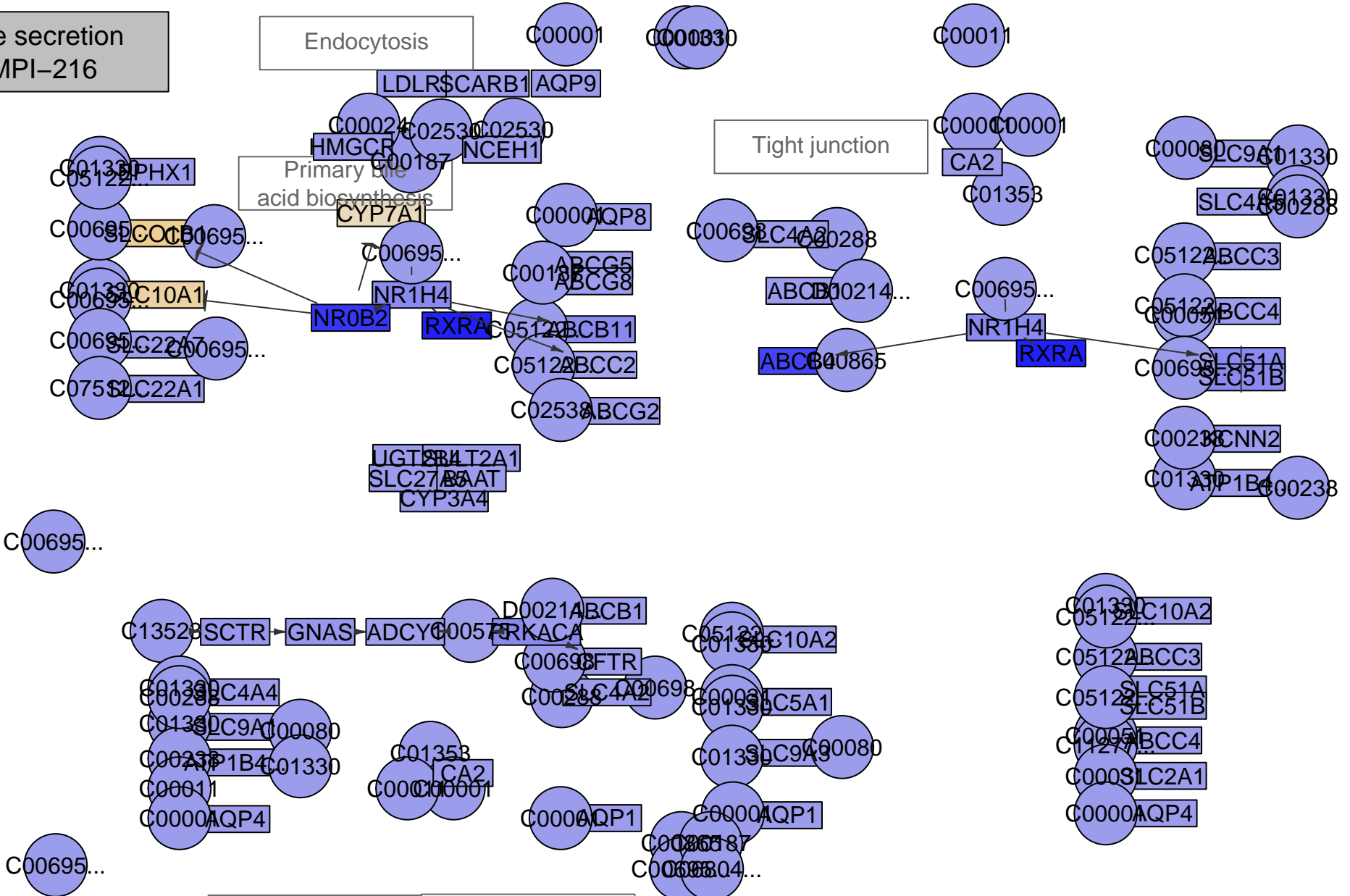
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-222

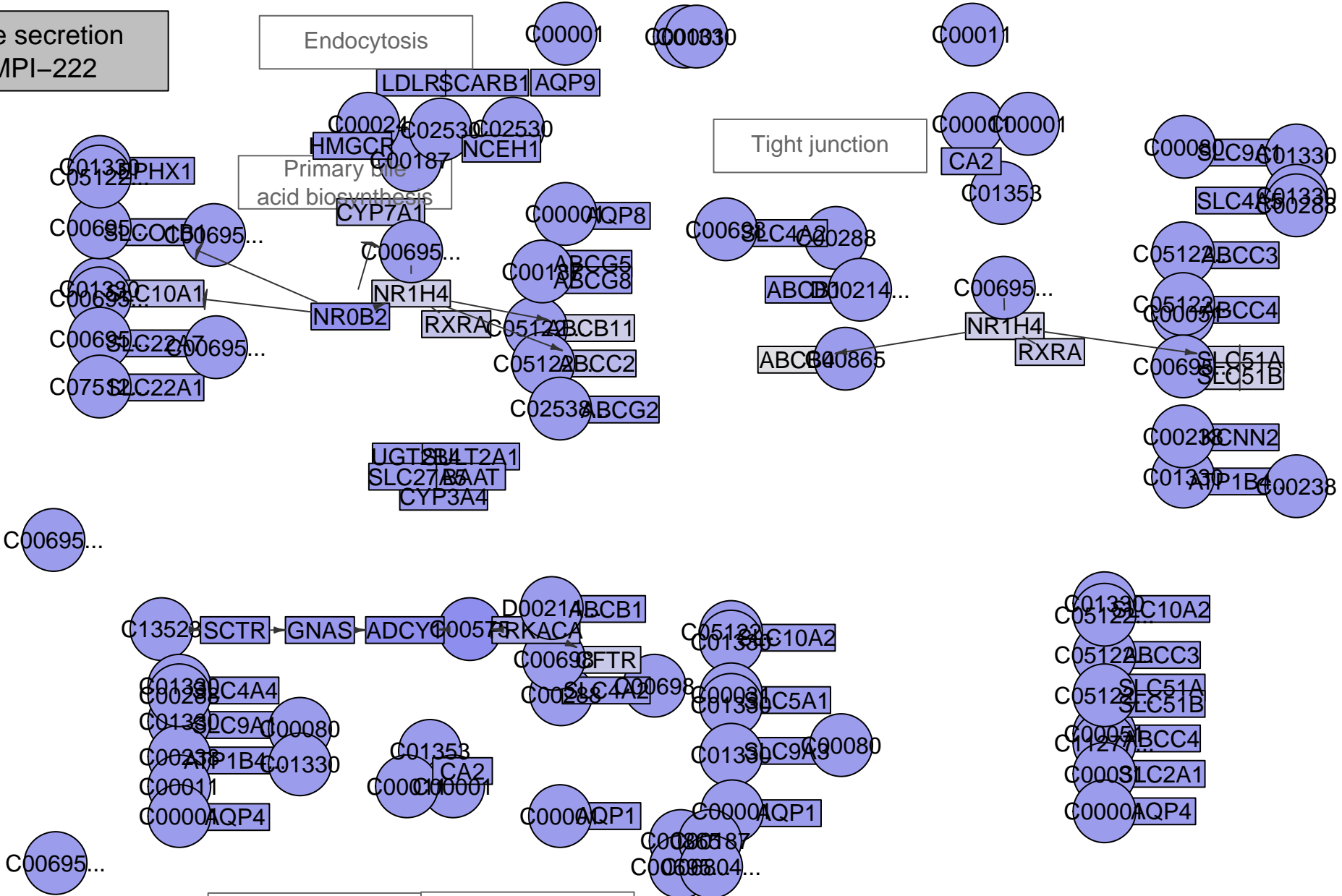
Endocytosis

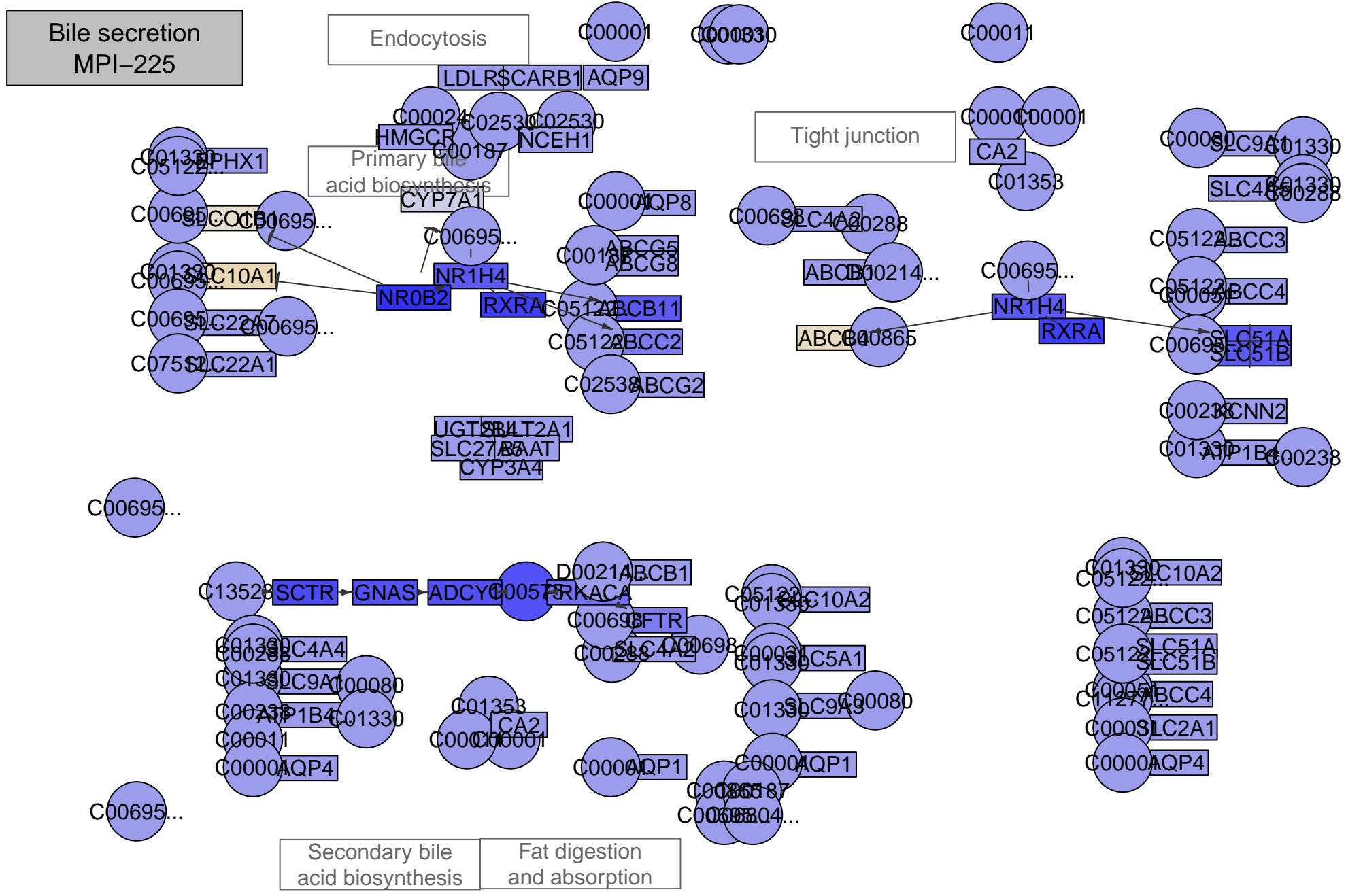
Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption





Bile secretion
MPI-248

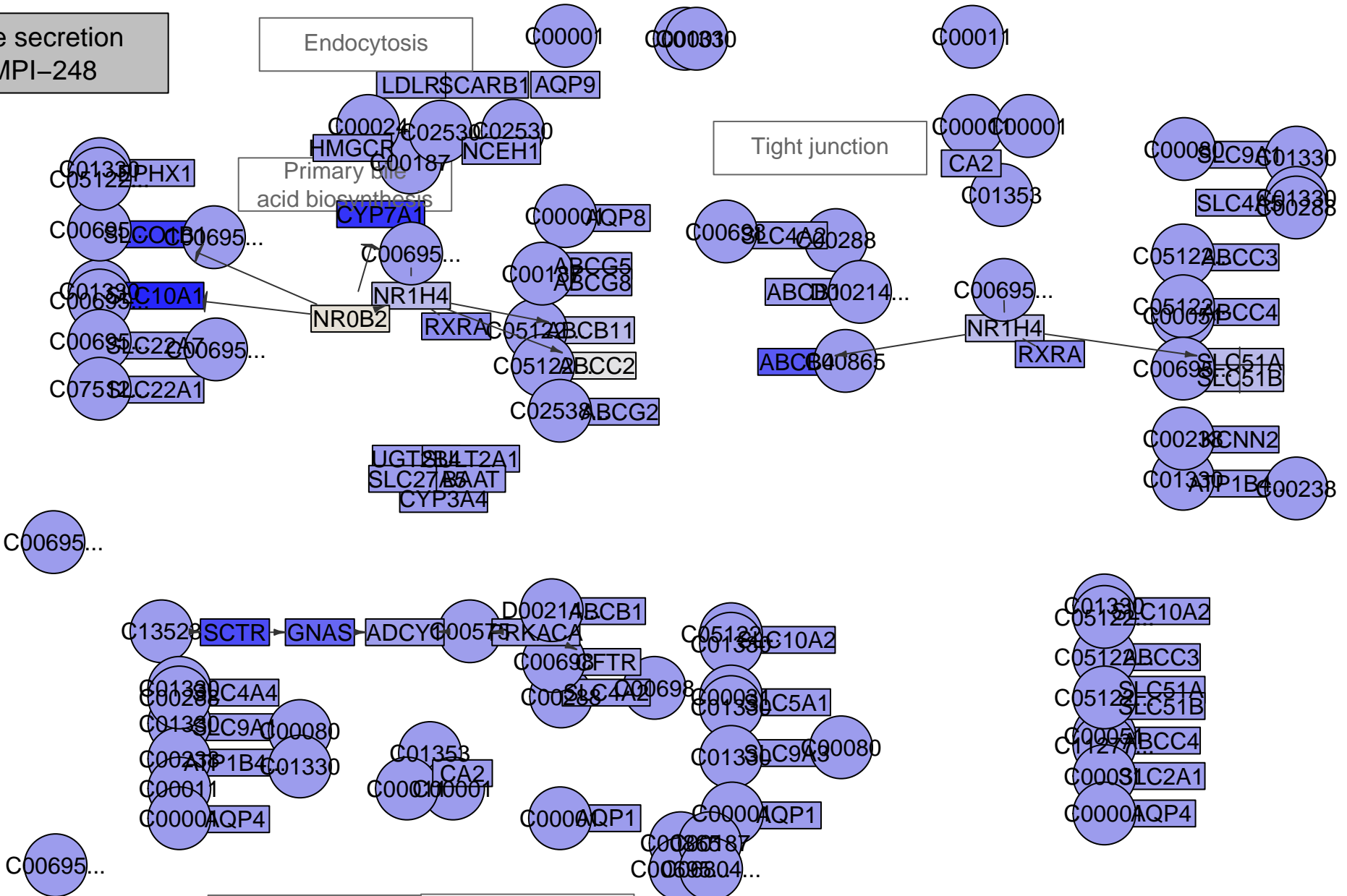
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-249

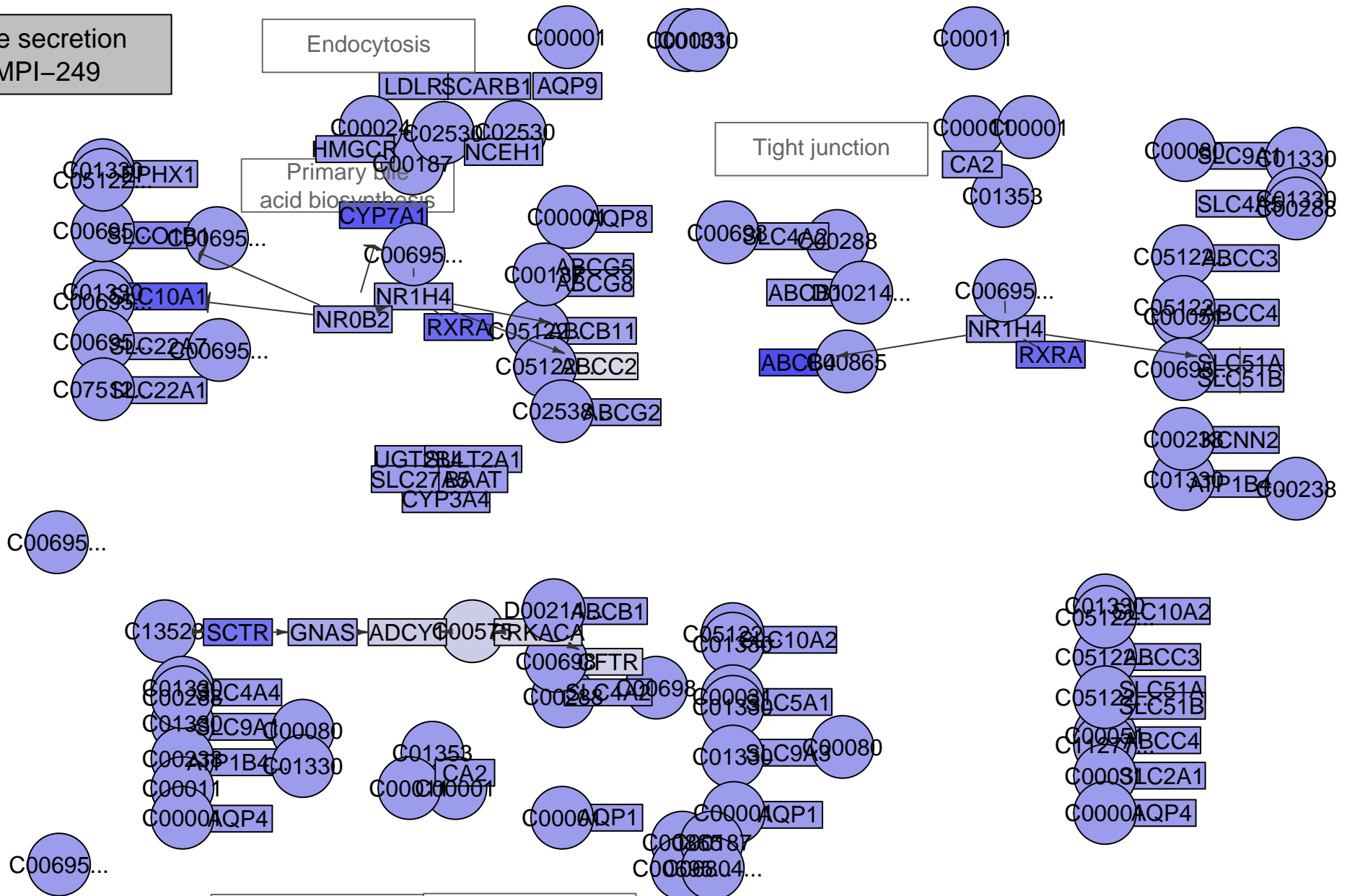
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-250

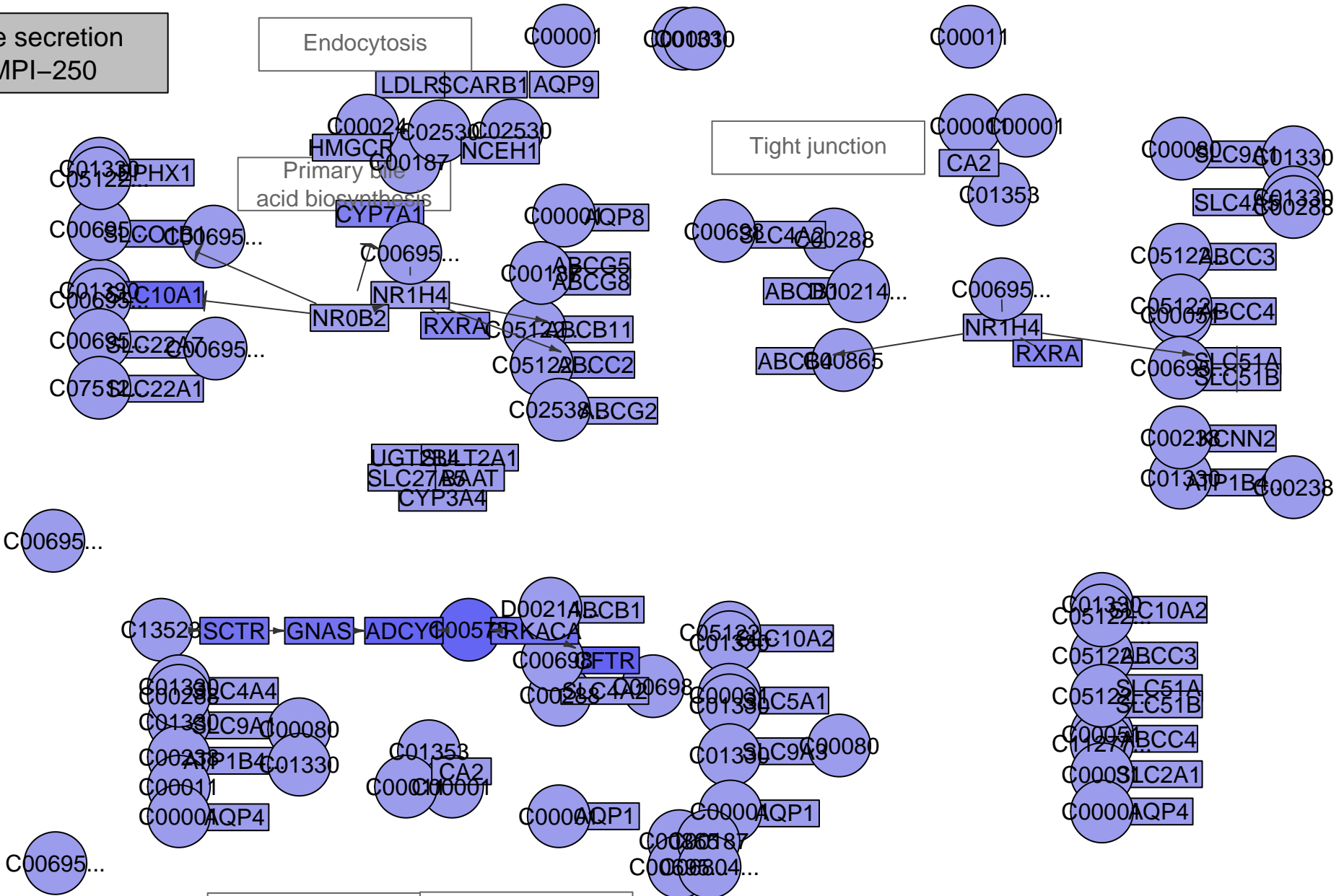
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-008

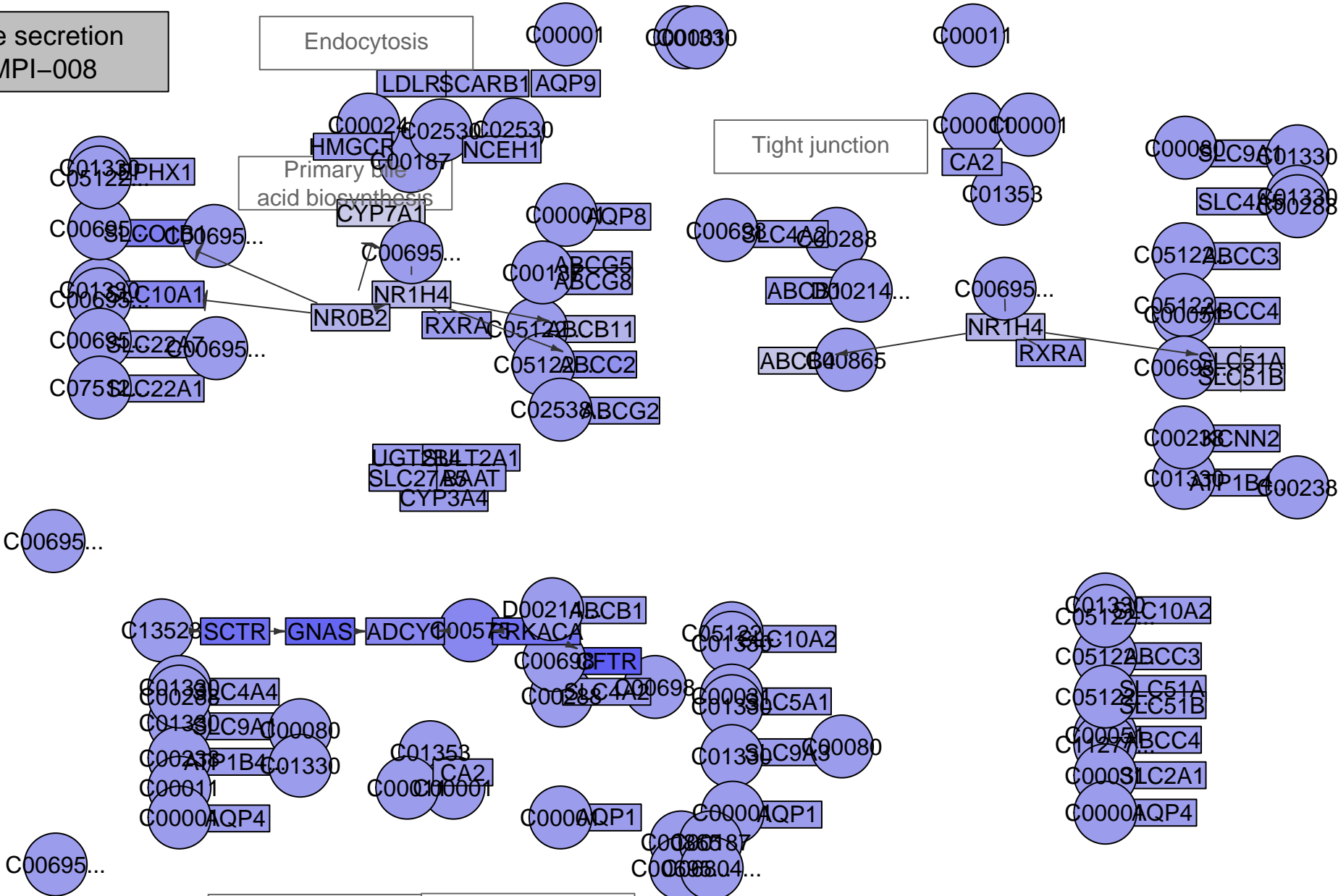
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-009

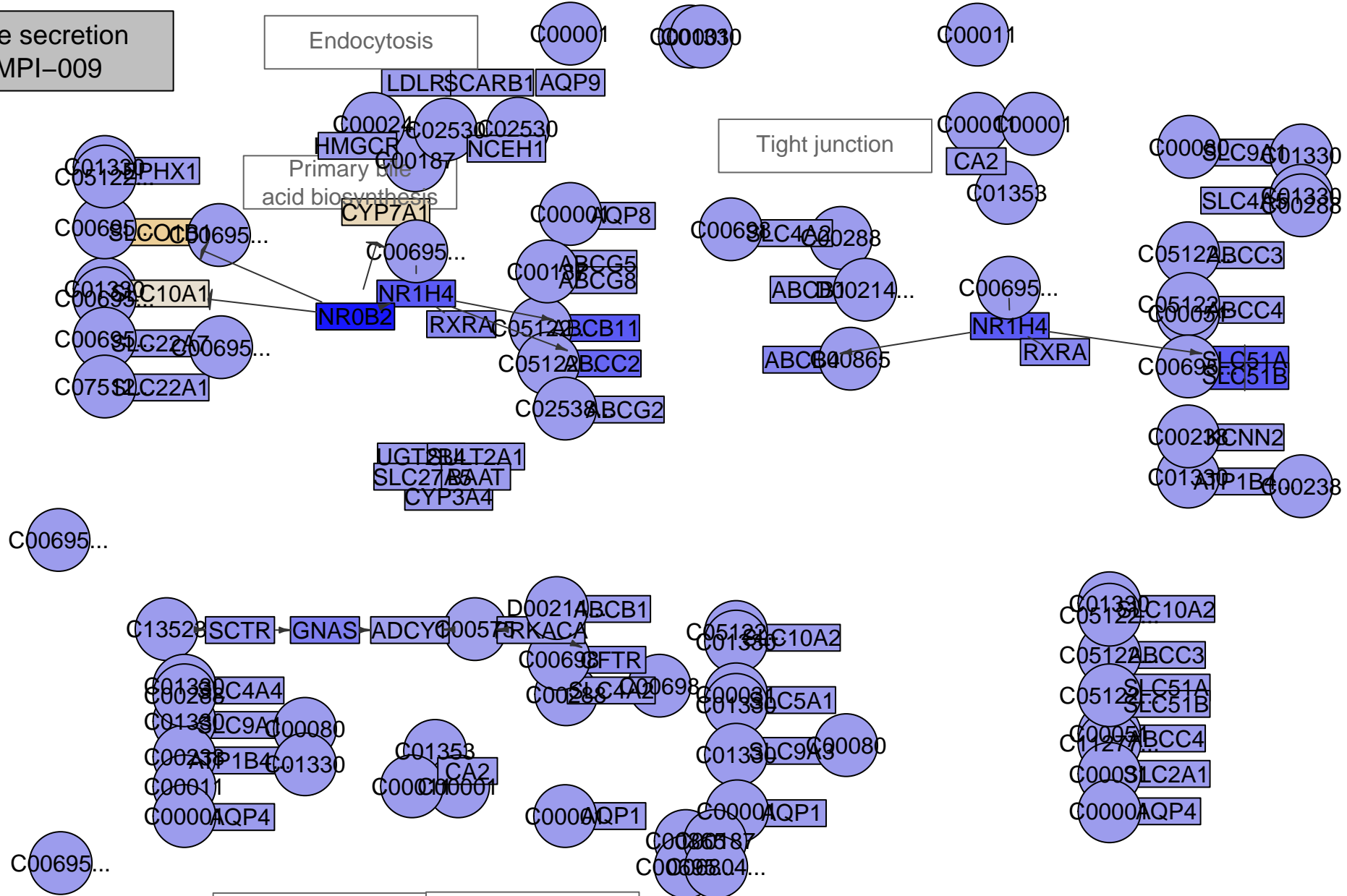
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



C00695...

C00695...

Bile secretion
MPI-010

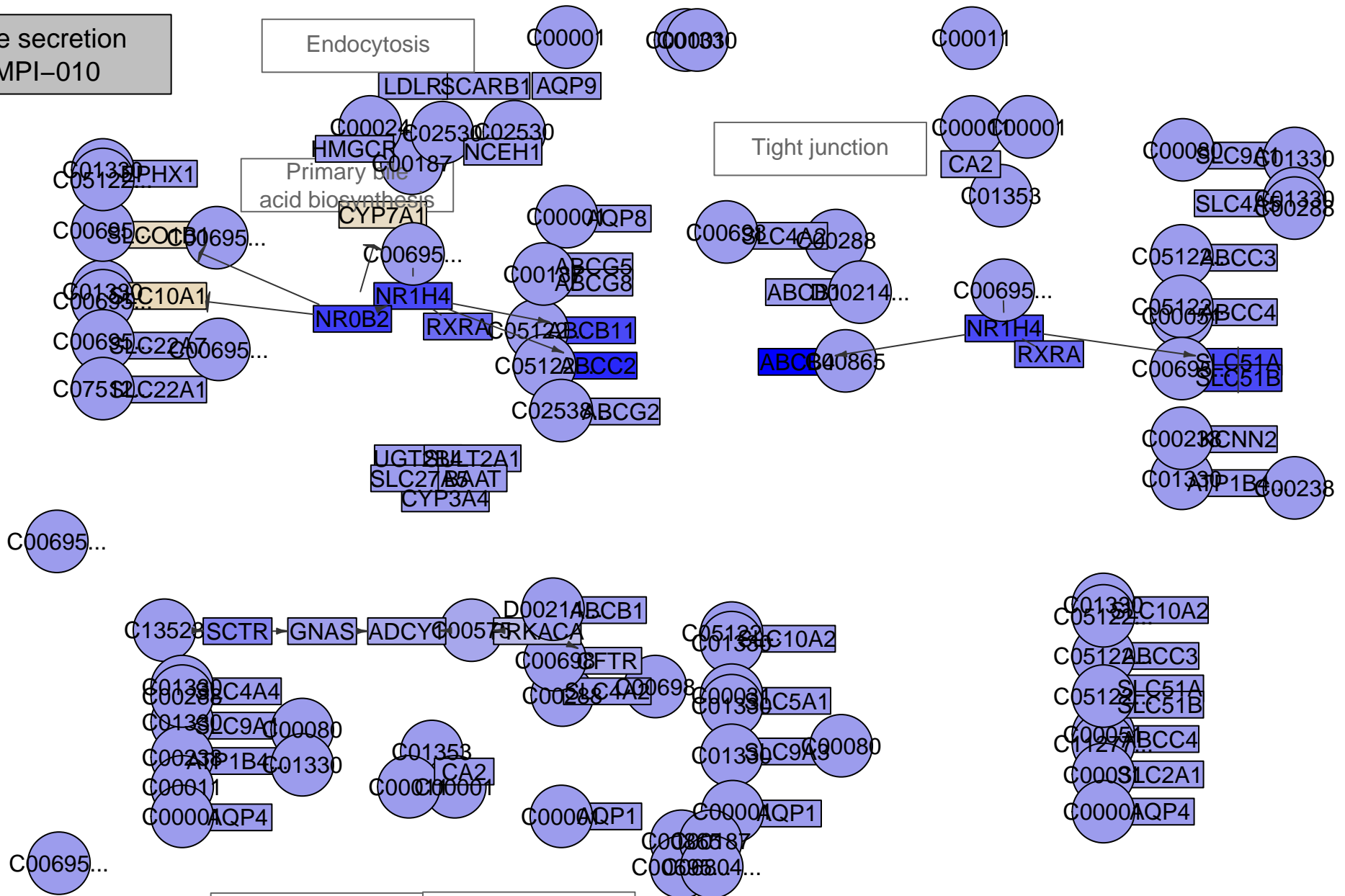
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-014

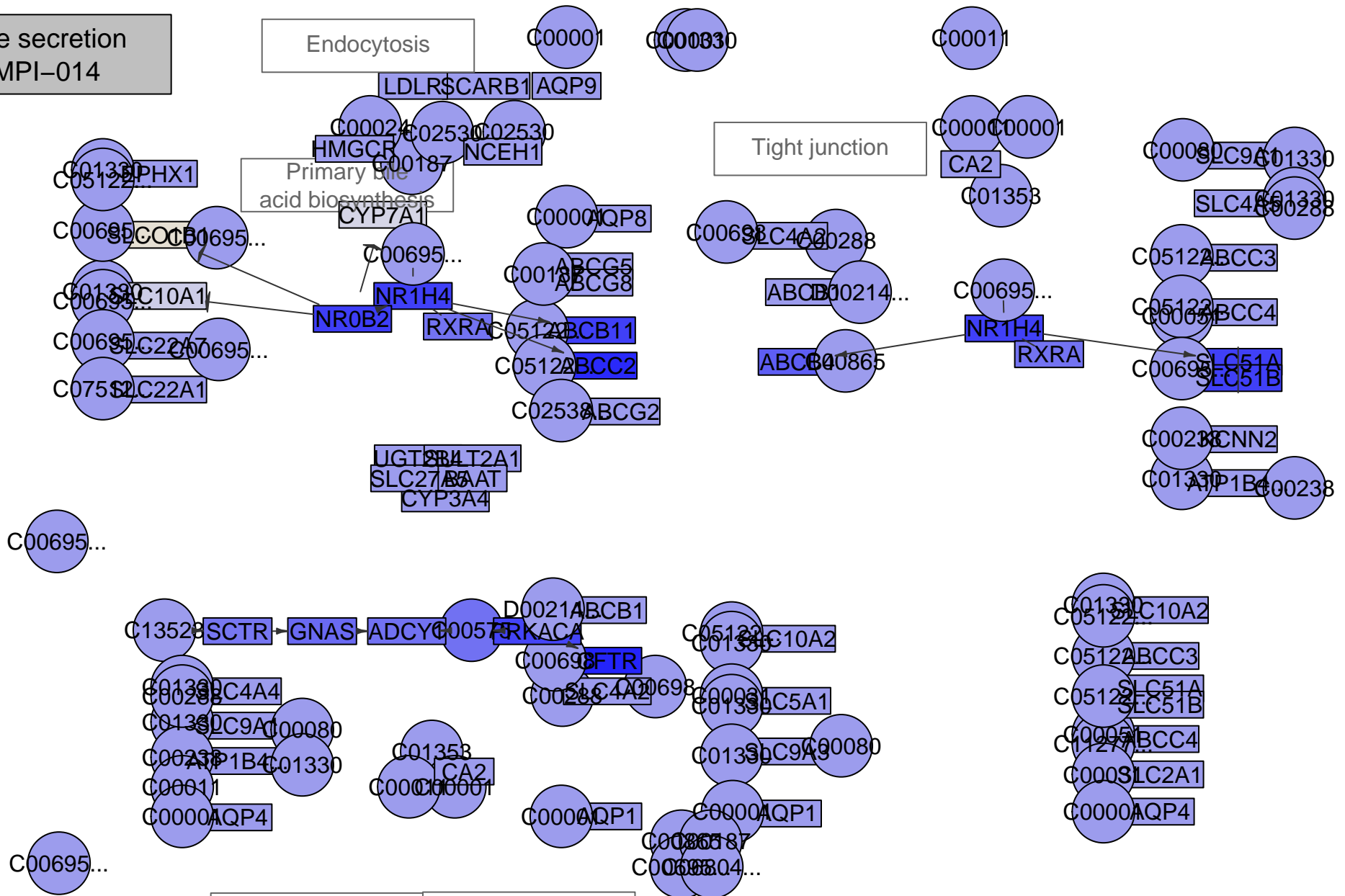
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



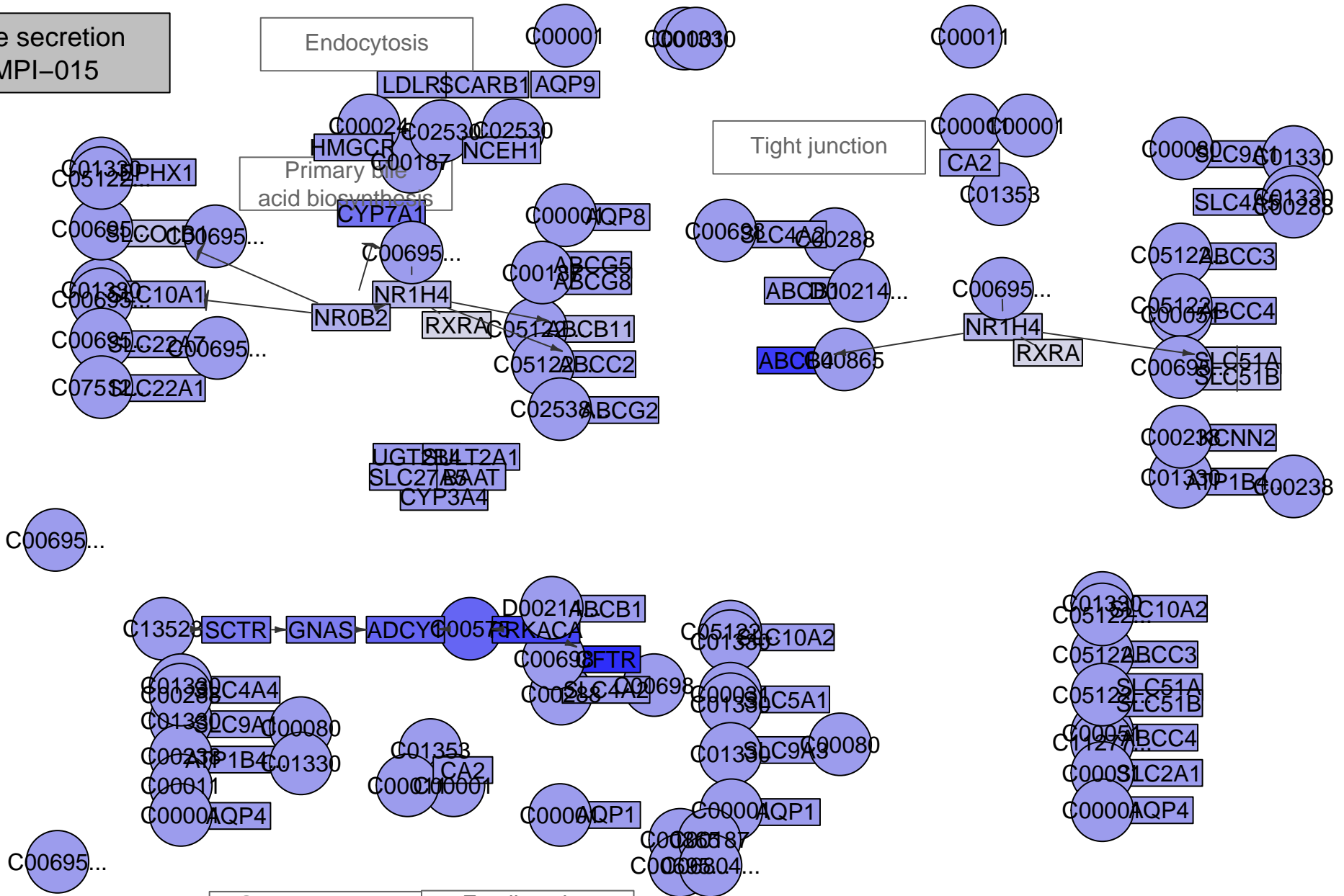
Bile secretion
MPI-015

Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis Fat digestion
and absorption



Bile secretion
MPI-021

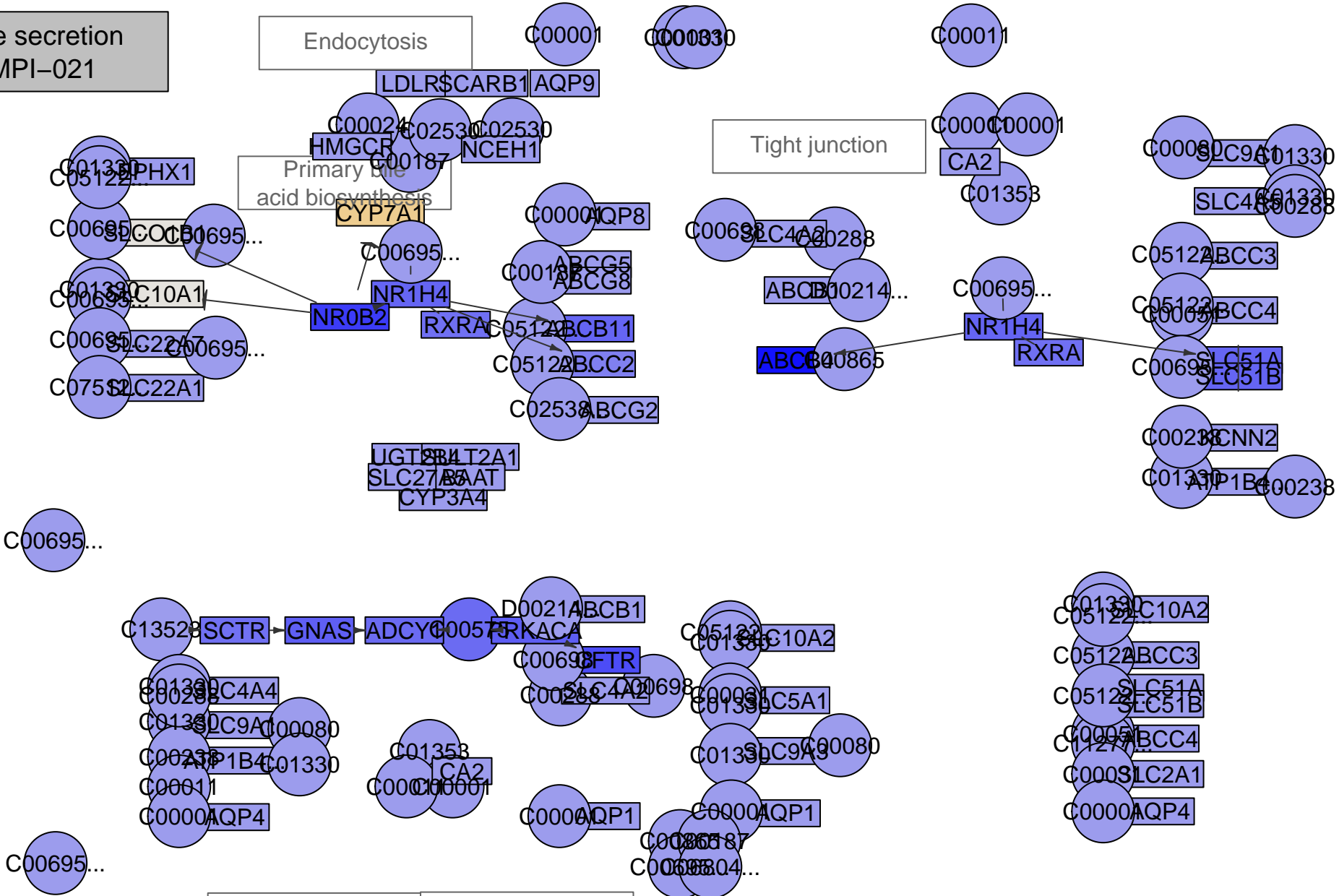
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



C00695...

C00695...

C13528
C01330
C00288
C01330
C00080
C00238
C01330
C00011
C00001
C00001
C00001

SCTR
GNAS
ADCY6
C00518
C00698
C00288
C01330
C00080
C00238
C01330
C00011
C00001
C00001

C00518
C00698
C00288
C01330
C00080
C00238
C01330
C00011
C00001
C00001

D0021A
C00518
C00698
C00288
C01330
C00080
C00238
C01330
C00011
C00001
C00001

C05122
C01330
C00080
C00238
C01330
C00080
C00238
C01330
C00011
C00001
C00001

C00518
C00698
C00288
C01330
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C00001

C01330
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C00011
C00001
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C00001
C00001

Bile secretion
MPI-029

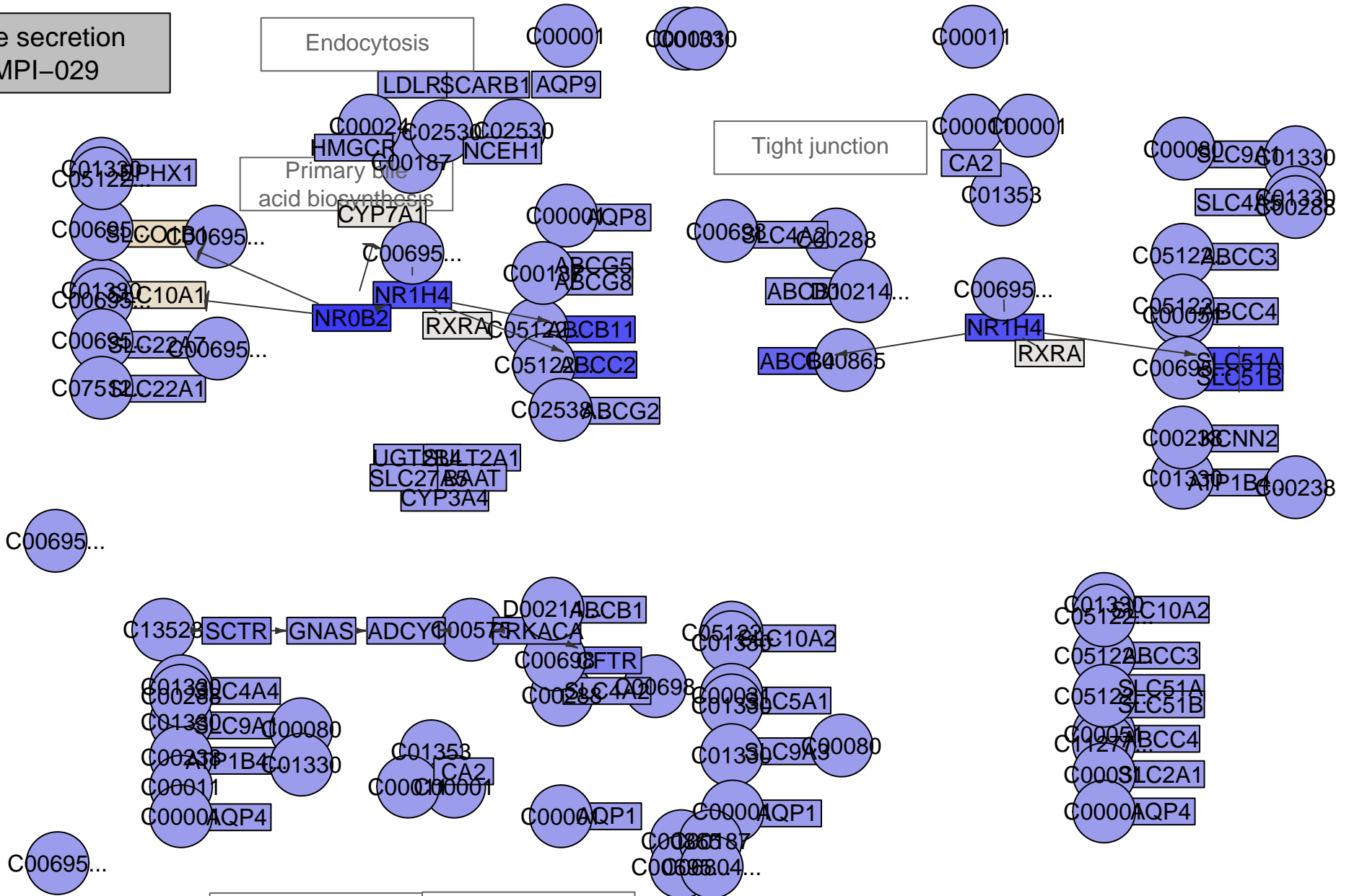
Endocytosis

Tight junction

Primary bile acid biosynthesis

Secondary bile acid biosynthesis

Fat digestion and absorption



Bile secretion
MPI-031

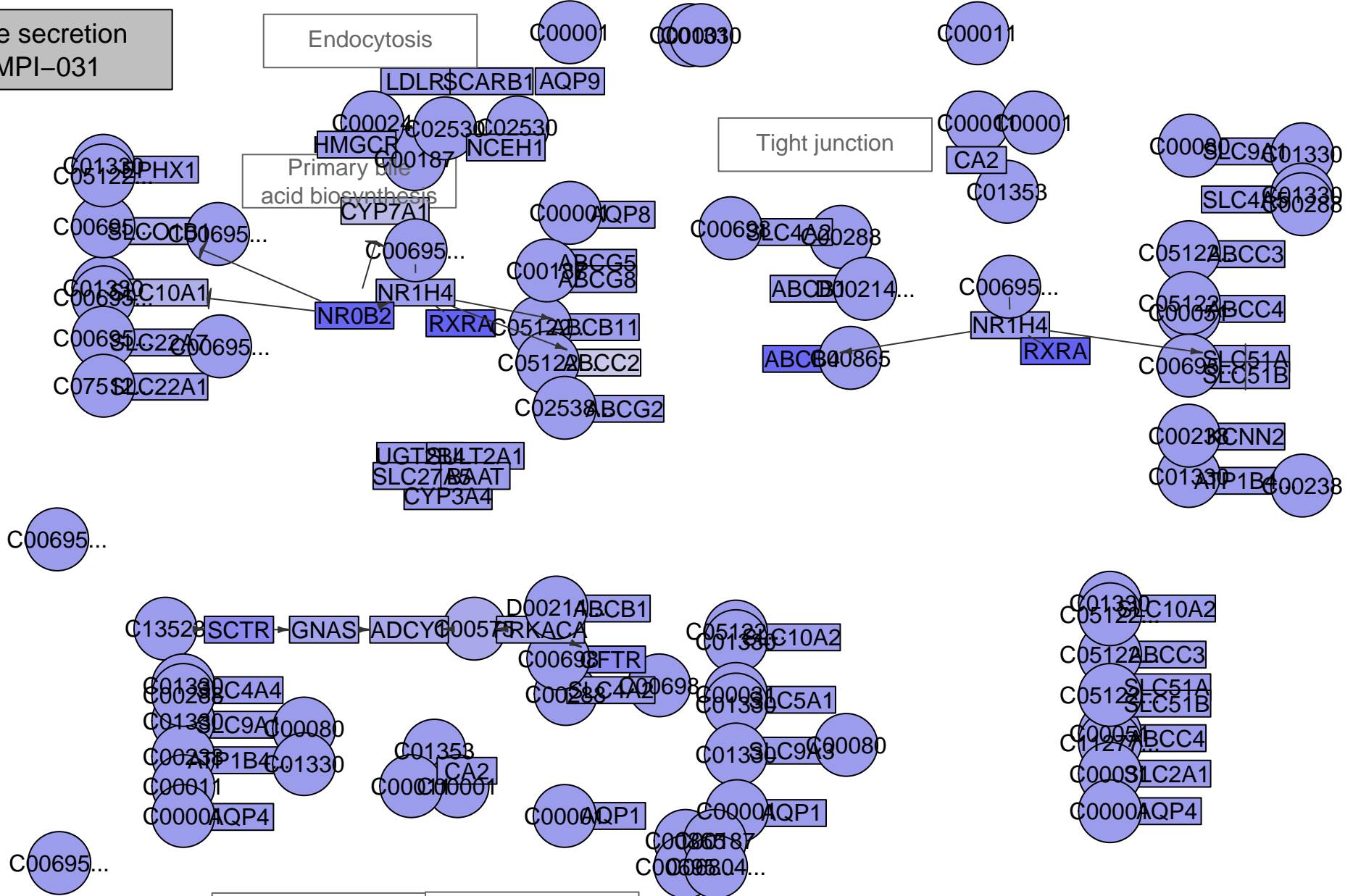
Endocytosis

Tight junction

Primary bile acid biosynthesis

Secondary bile acid biosynthesis

Fat digestion and absorption



Bile secretion
MPI-040

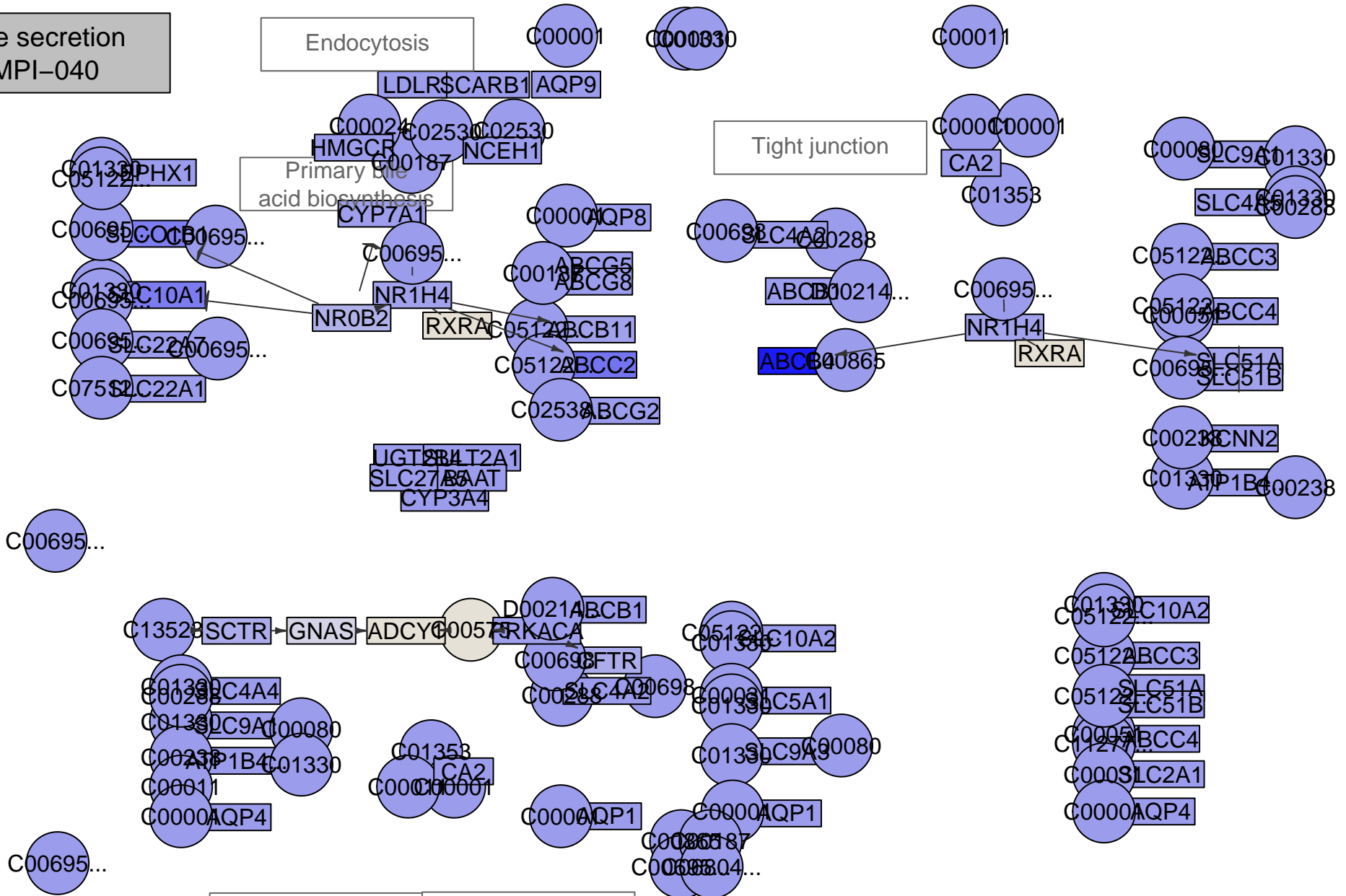
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-045

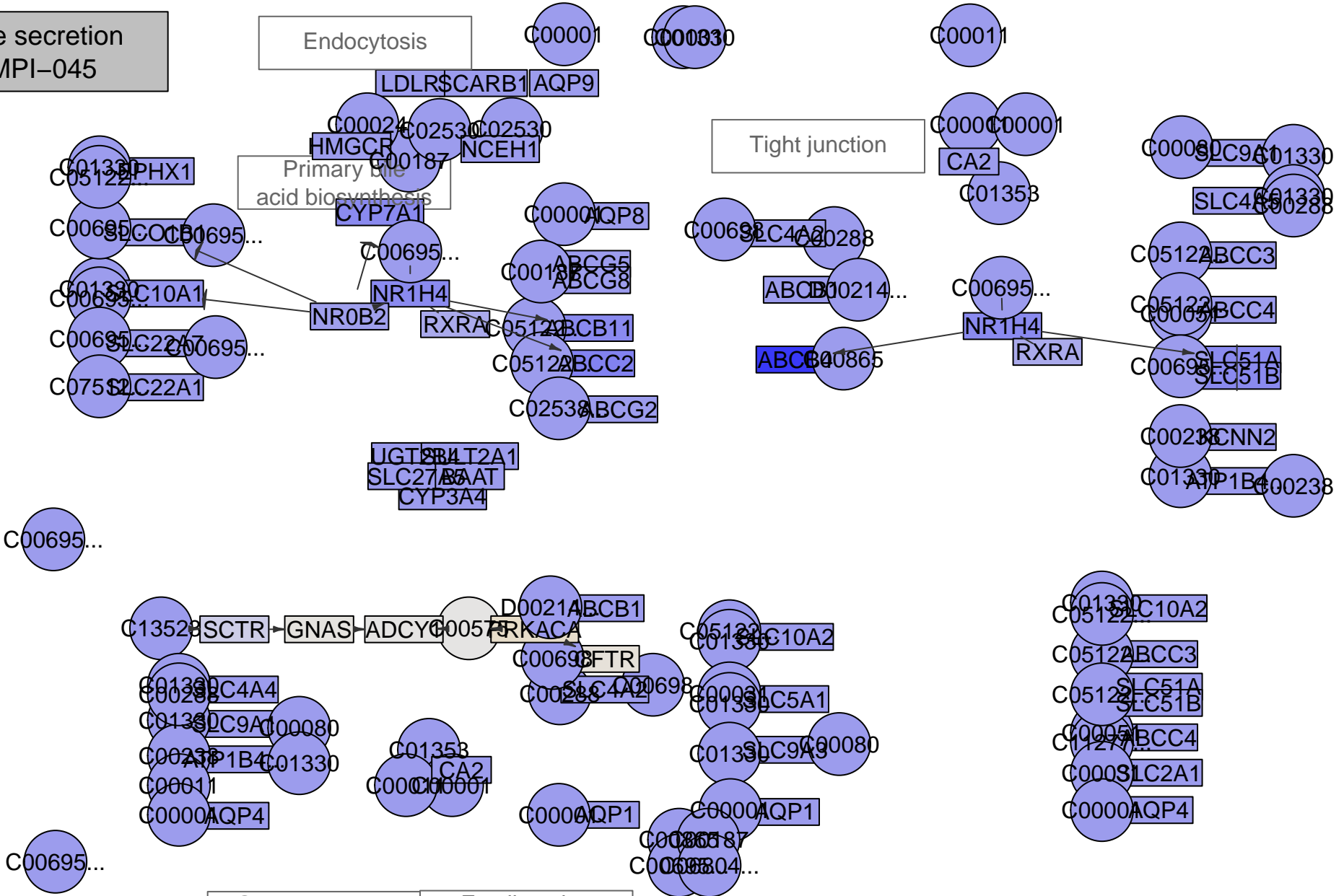
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



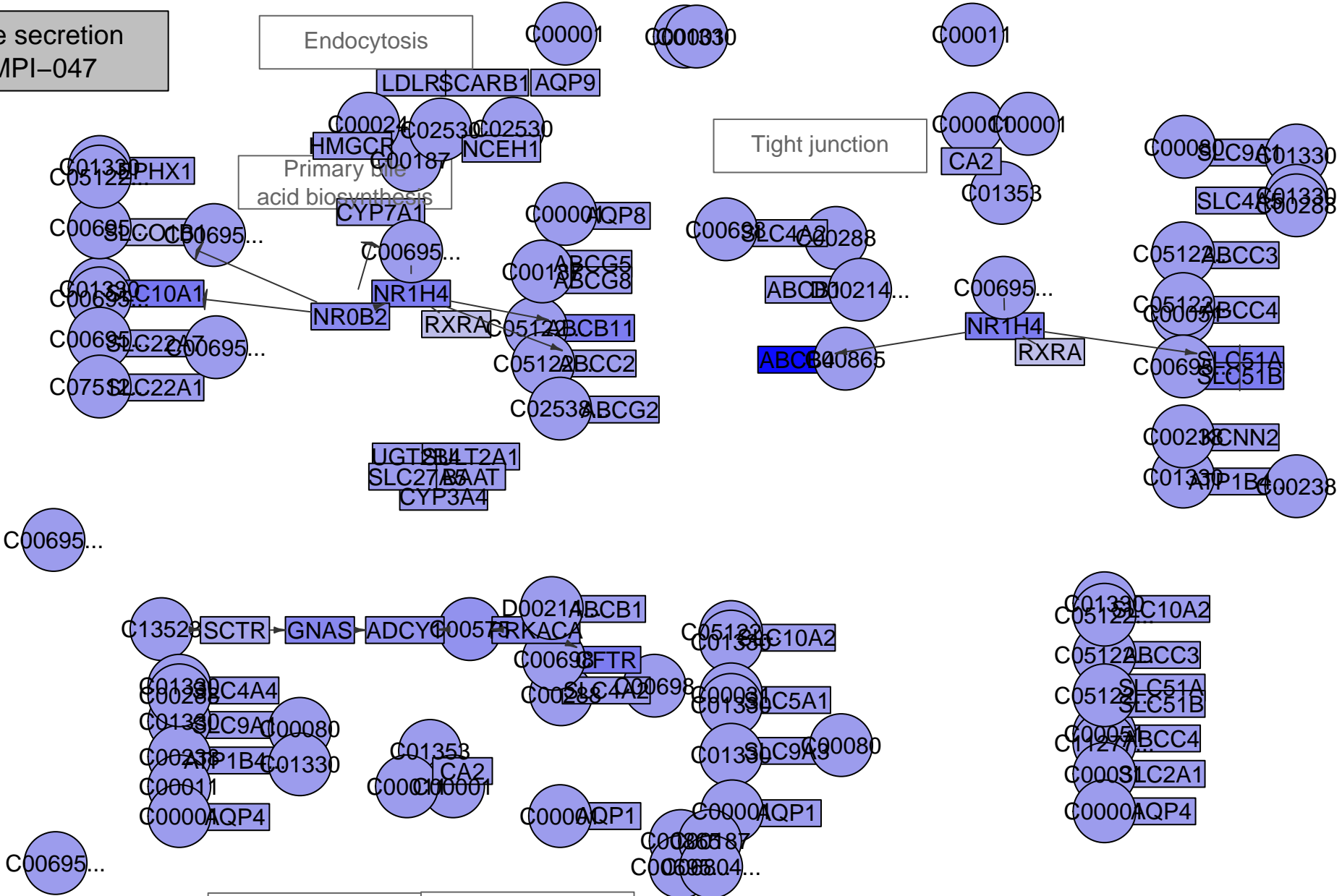
Bile secretion
MPI-047

Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis Fat digestion
and absorption



Bile secretion
MPI-053

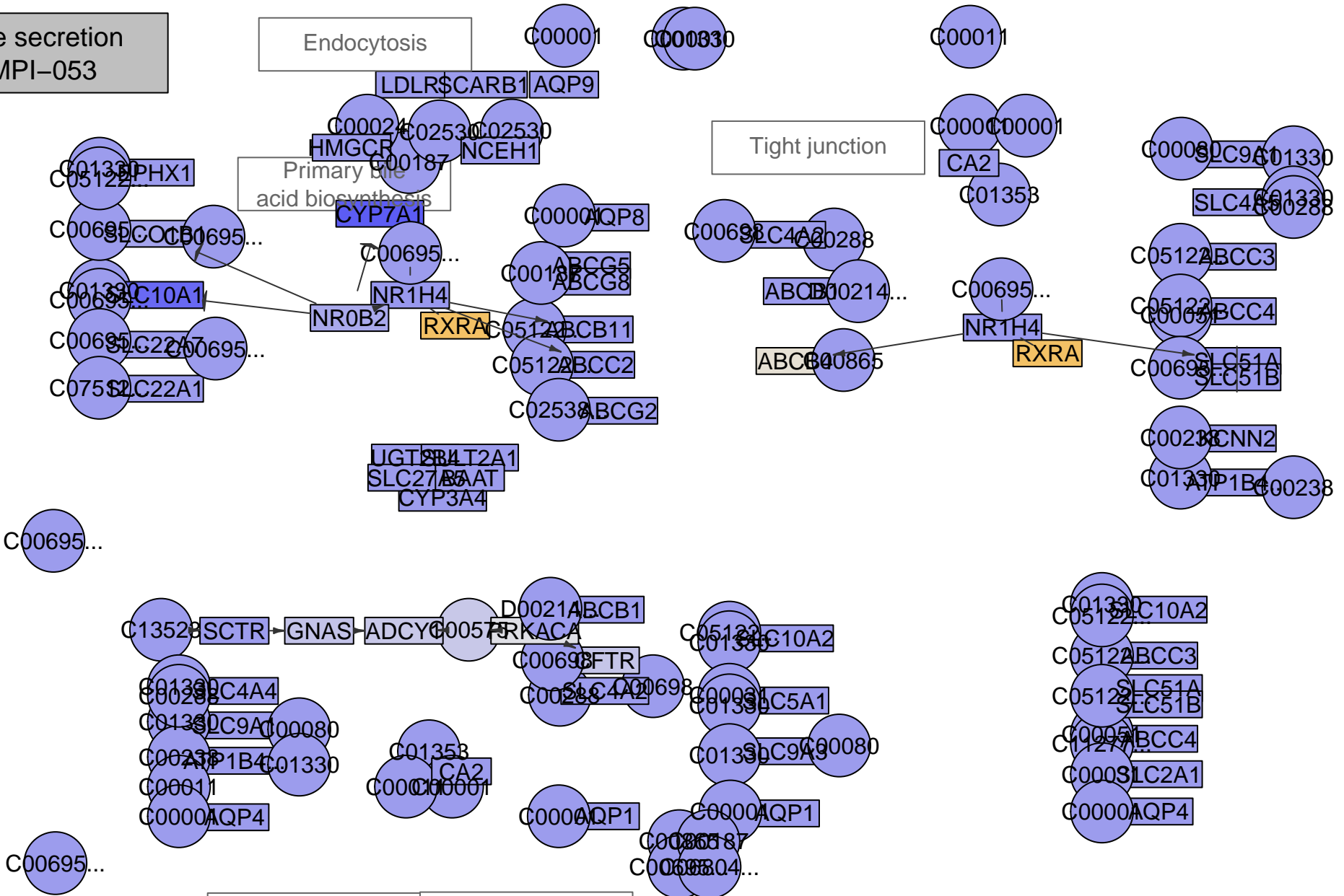
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-062

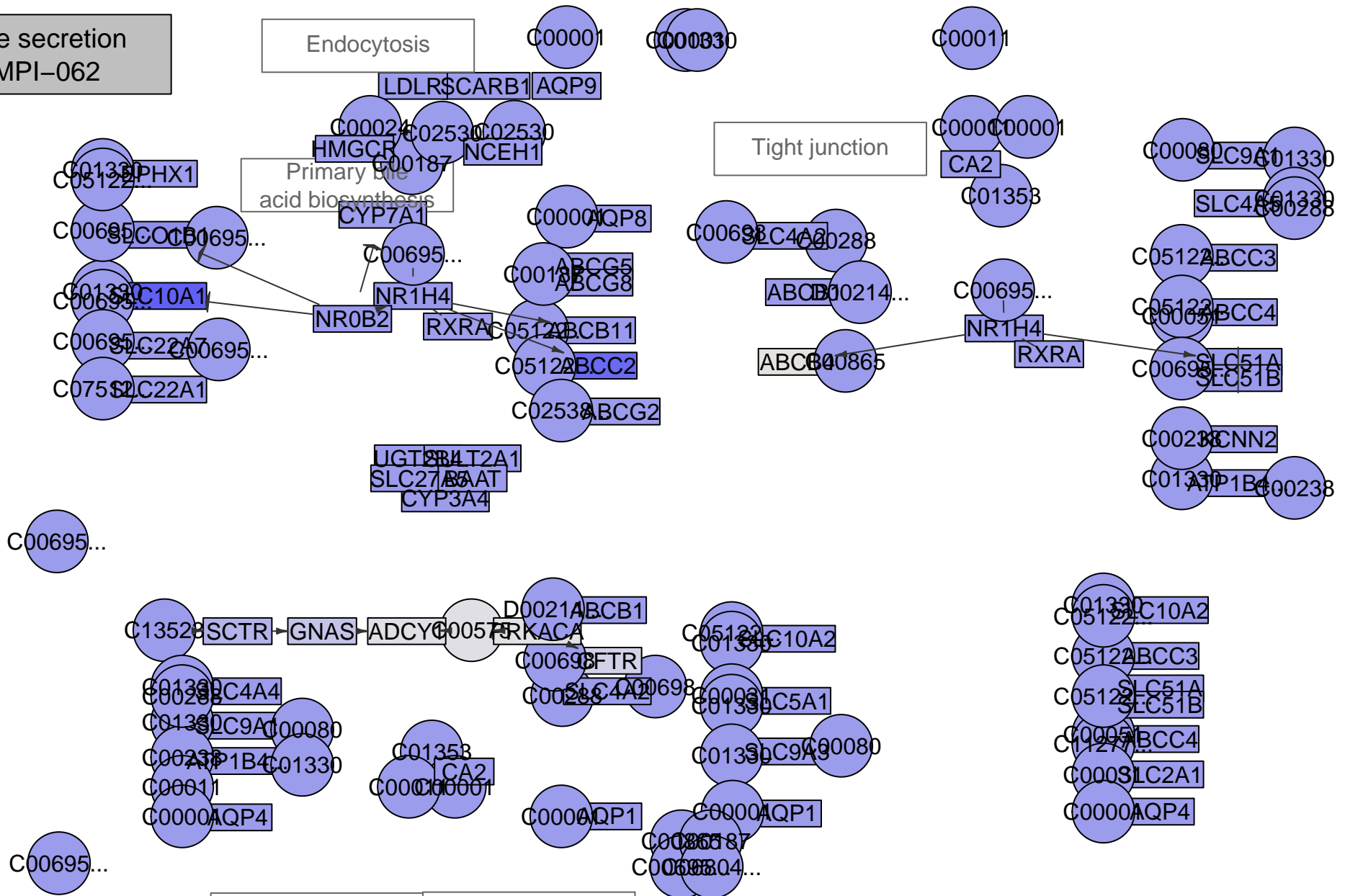
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-063

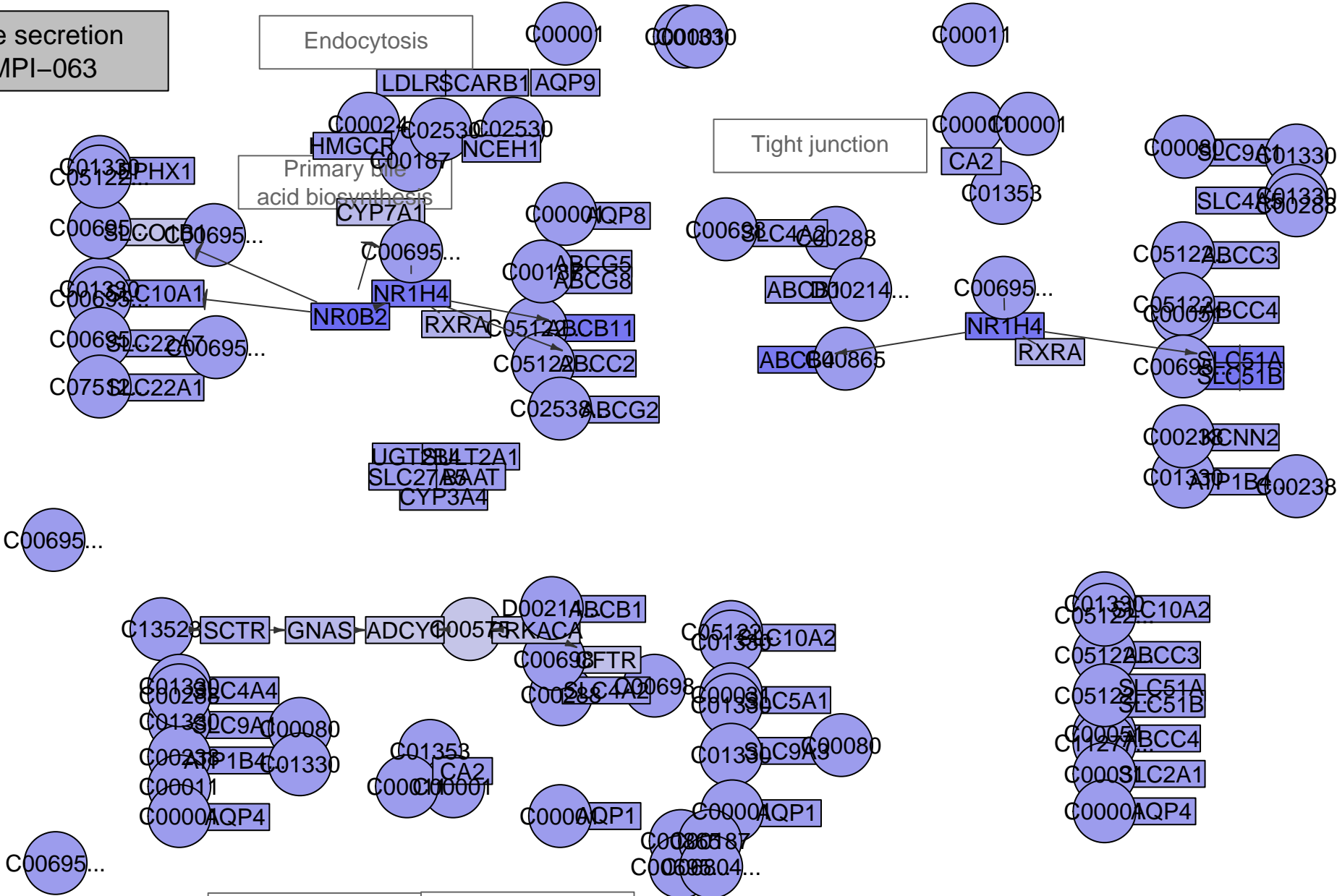
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-069

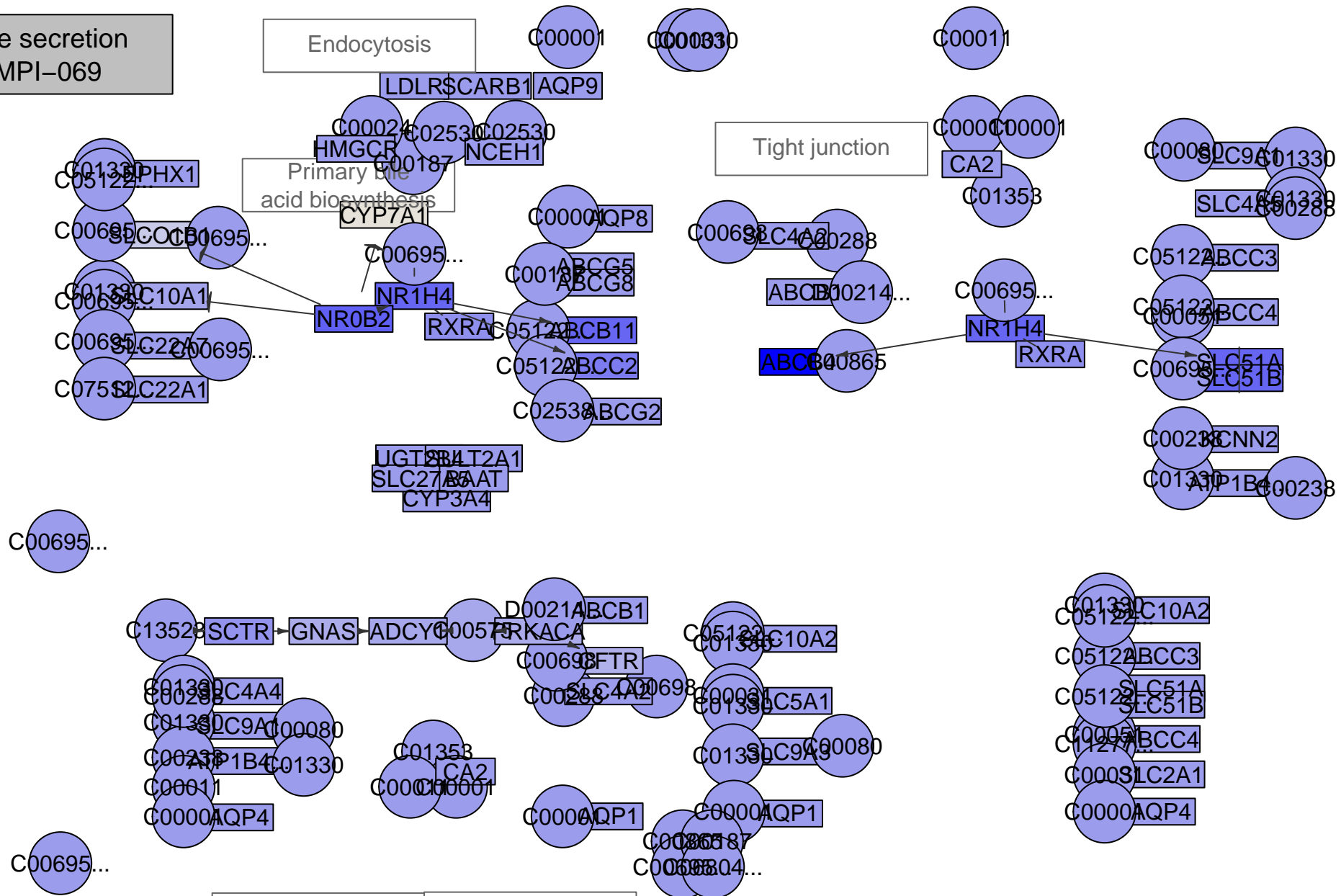
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-074

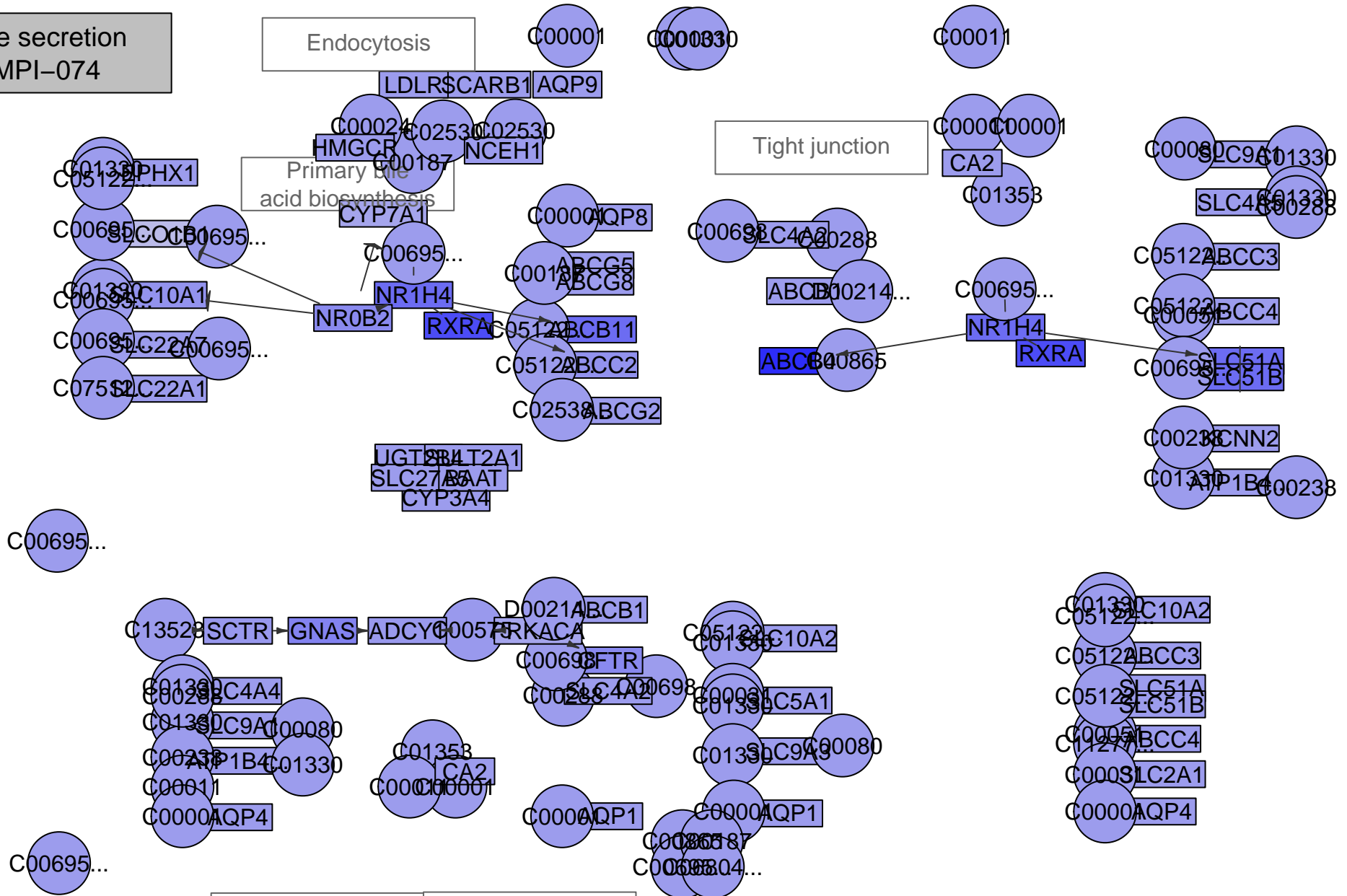
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-076

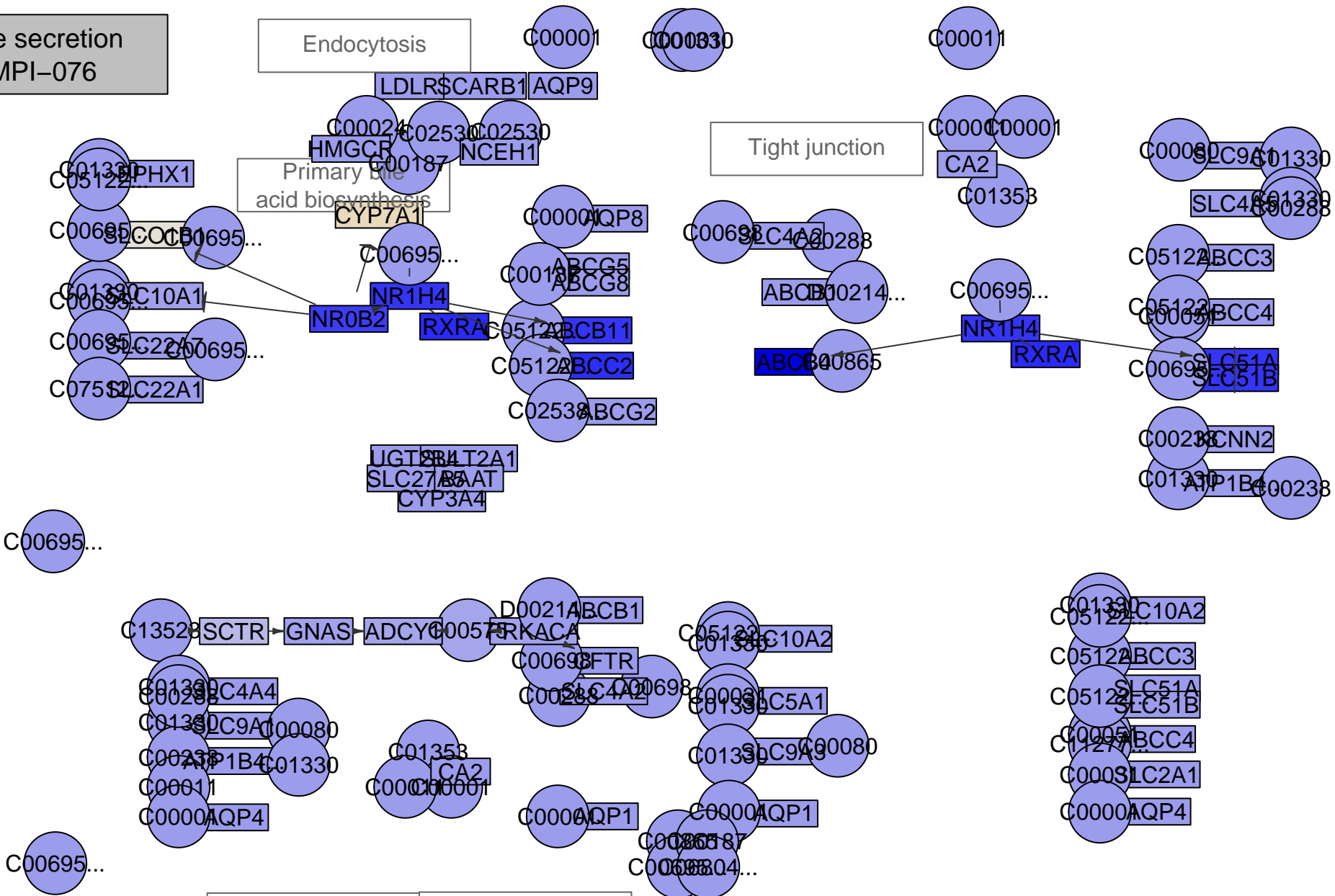
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-083

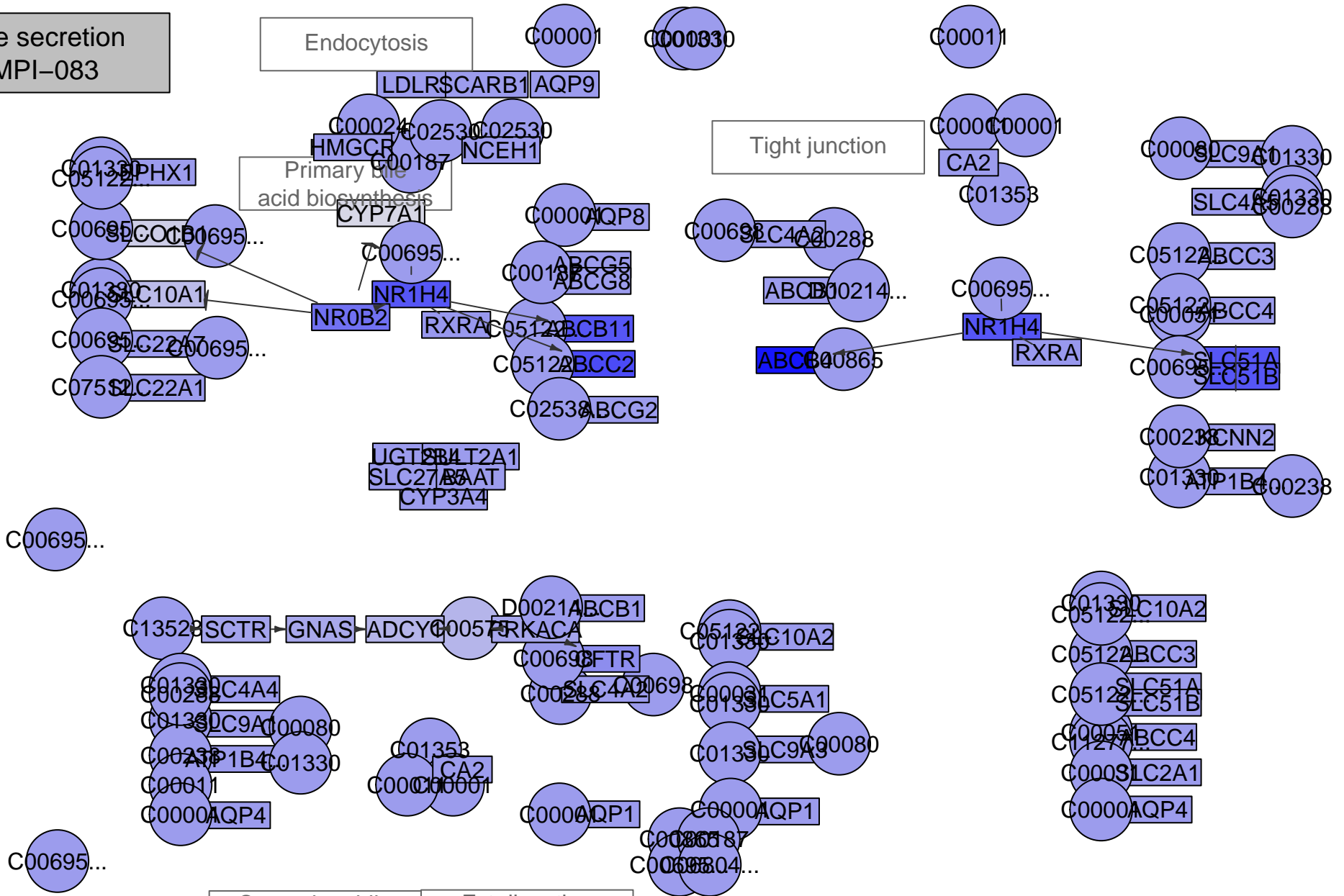
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-096

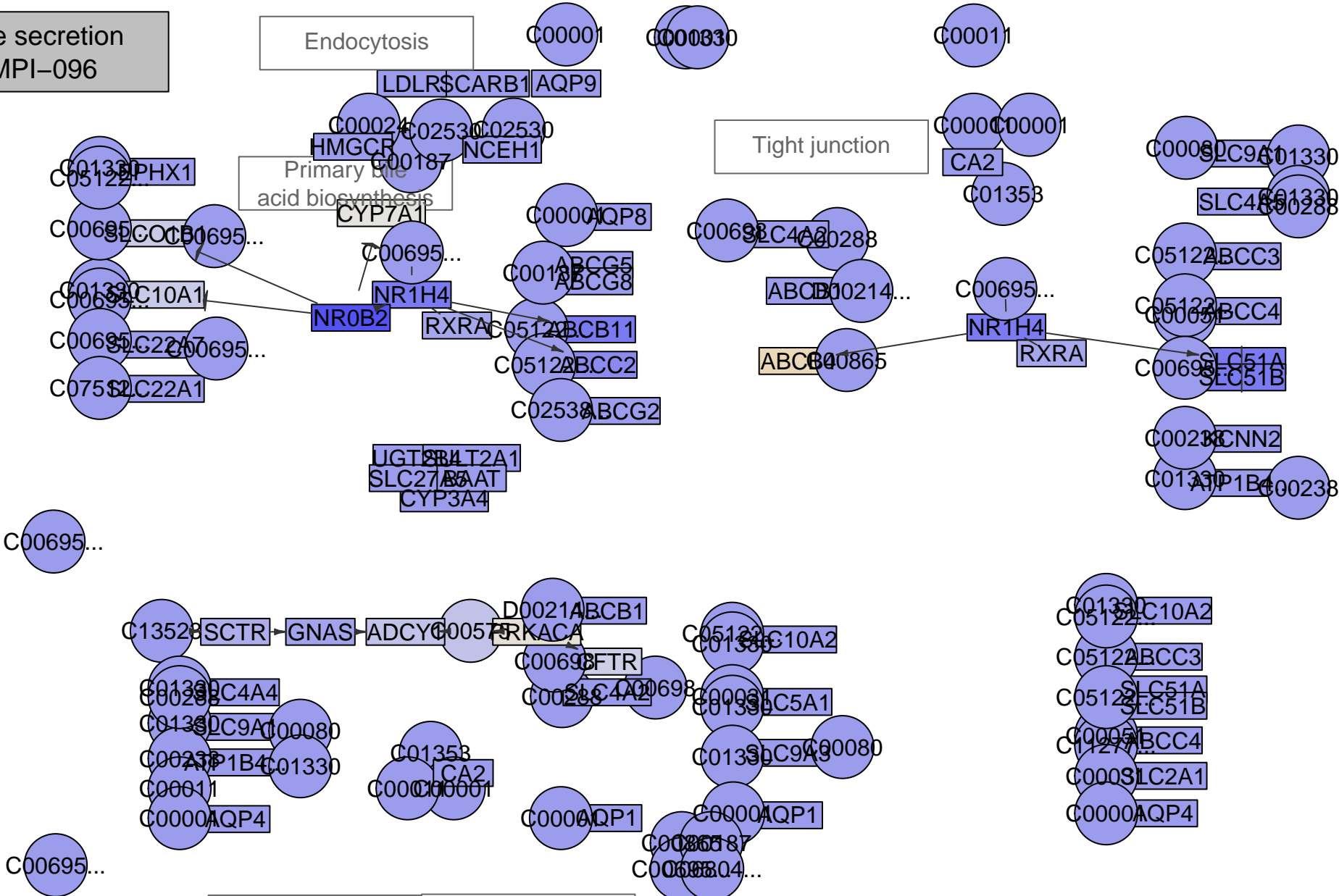
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-098

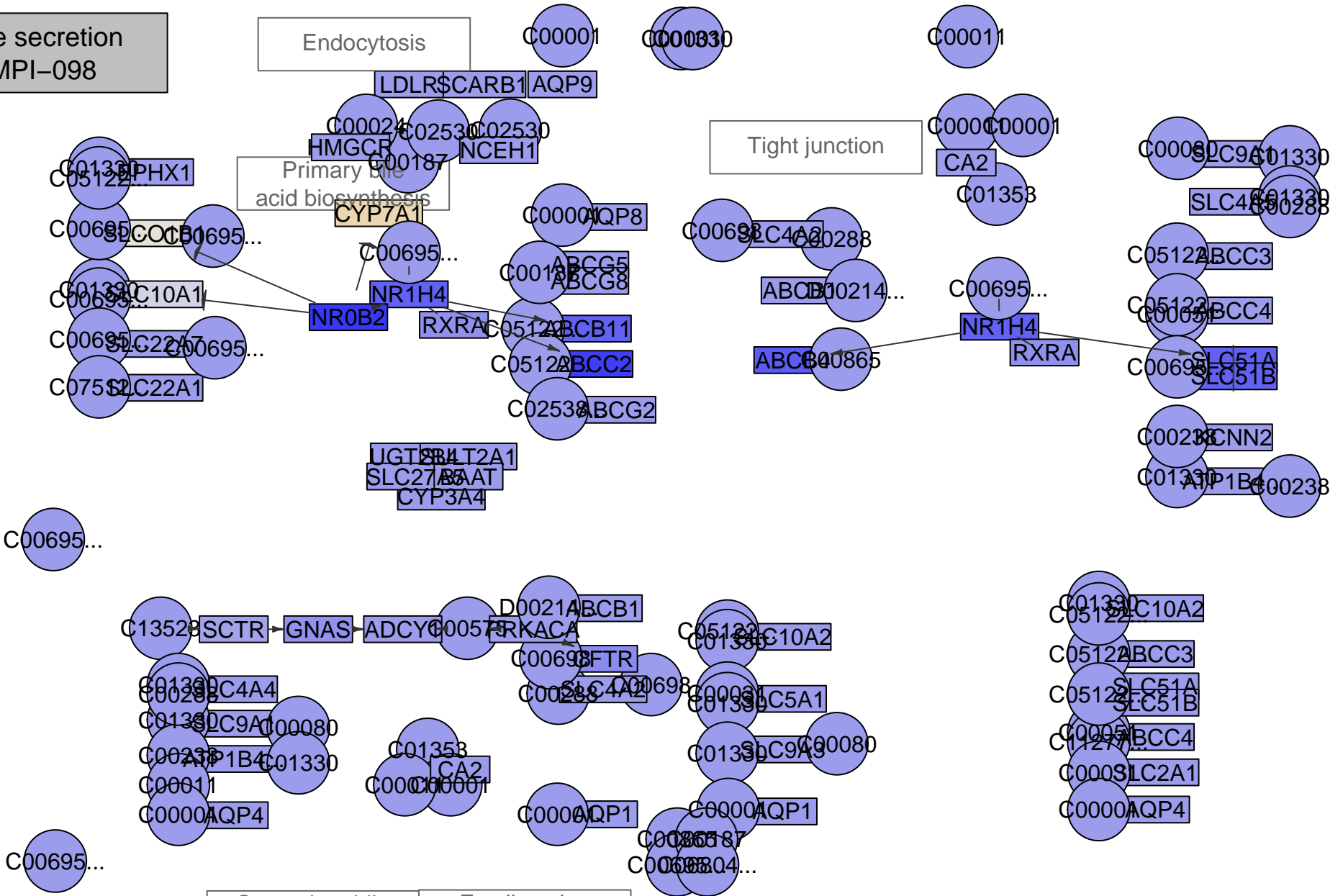
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-105

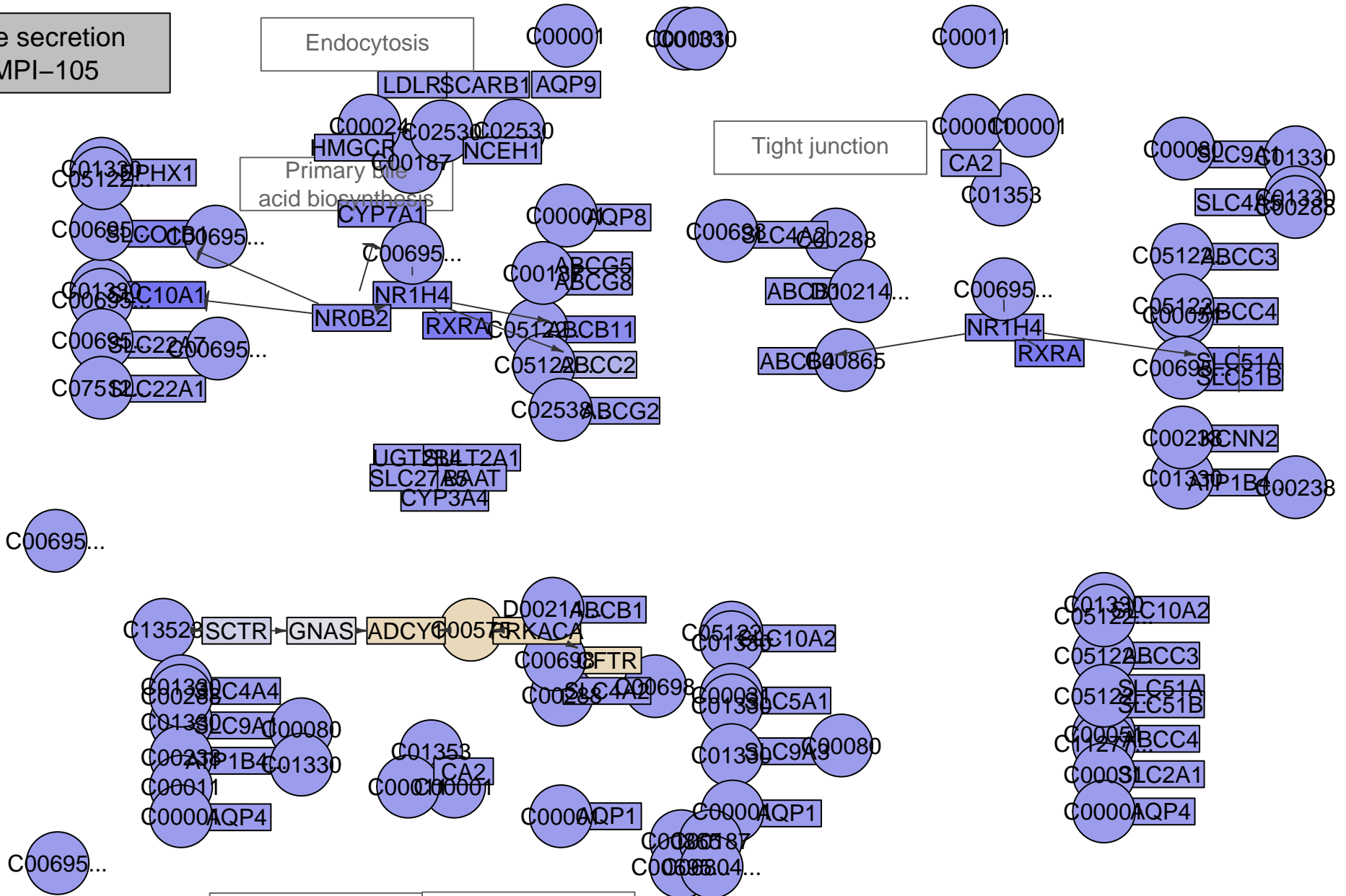
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-106

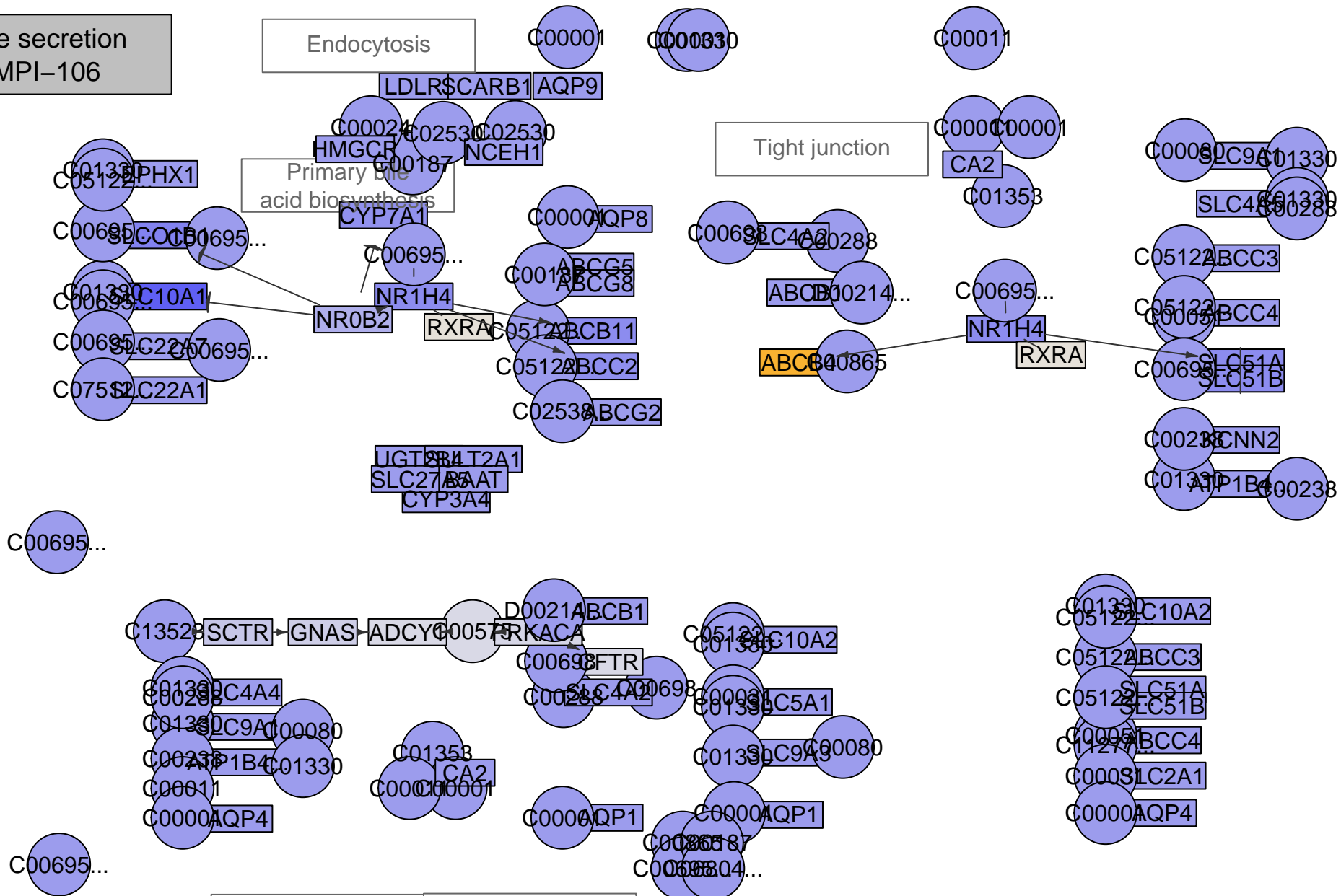
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-108

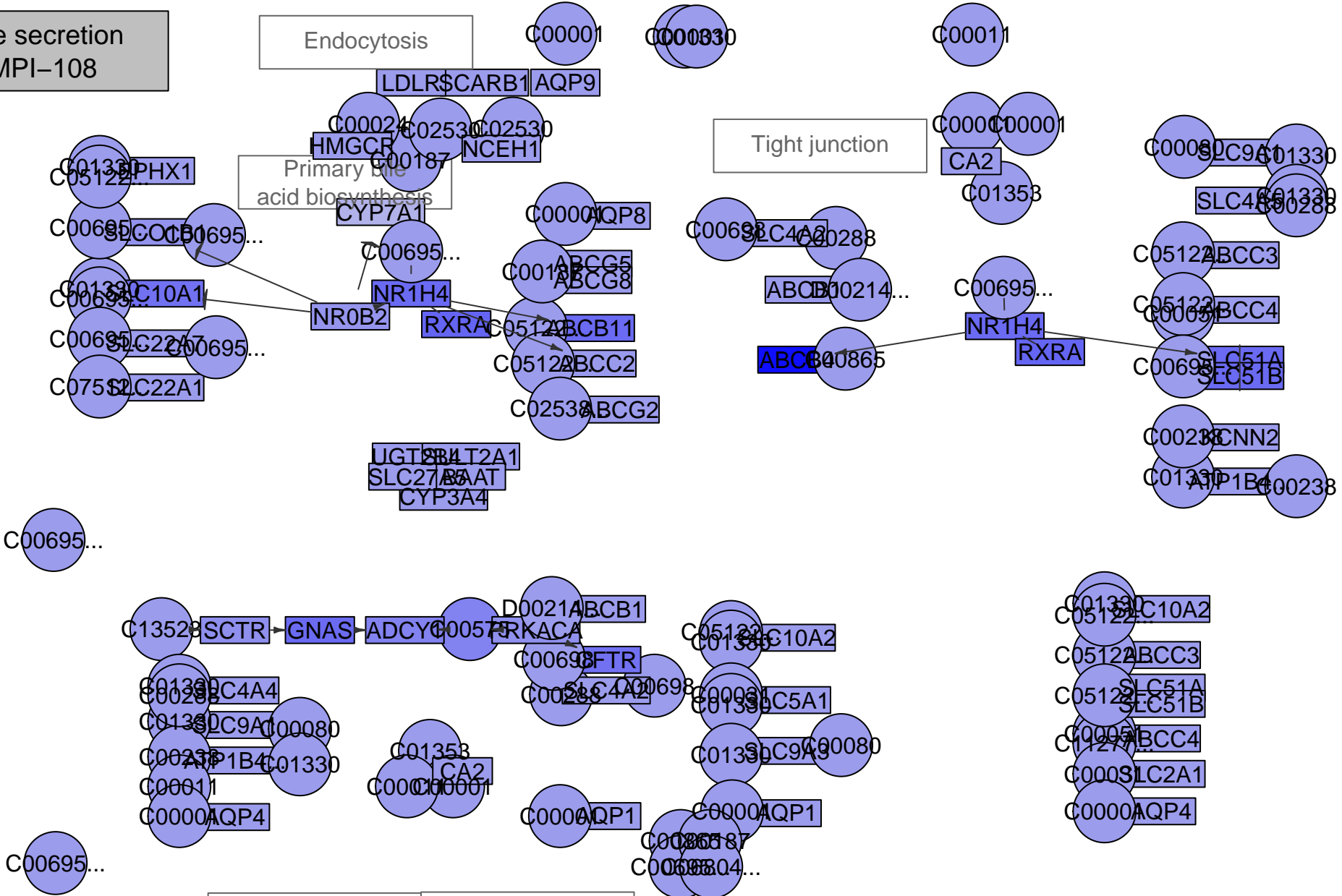
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-109

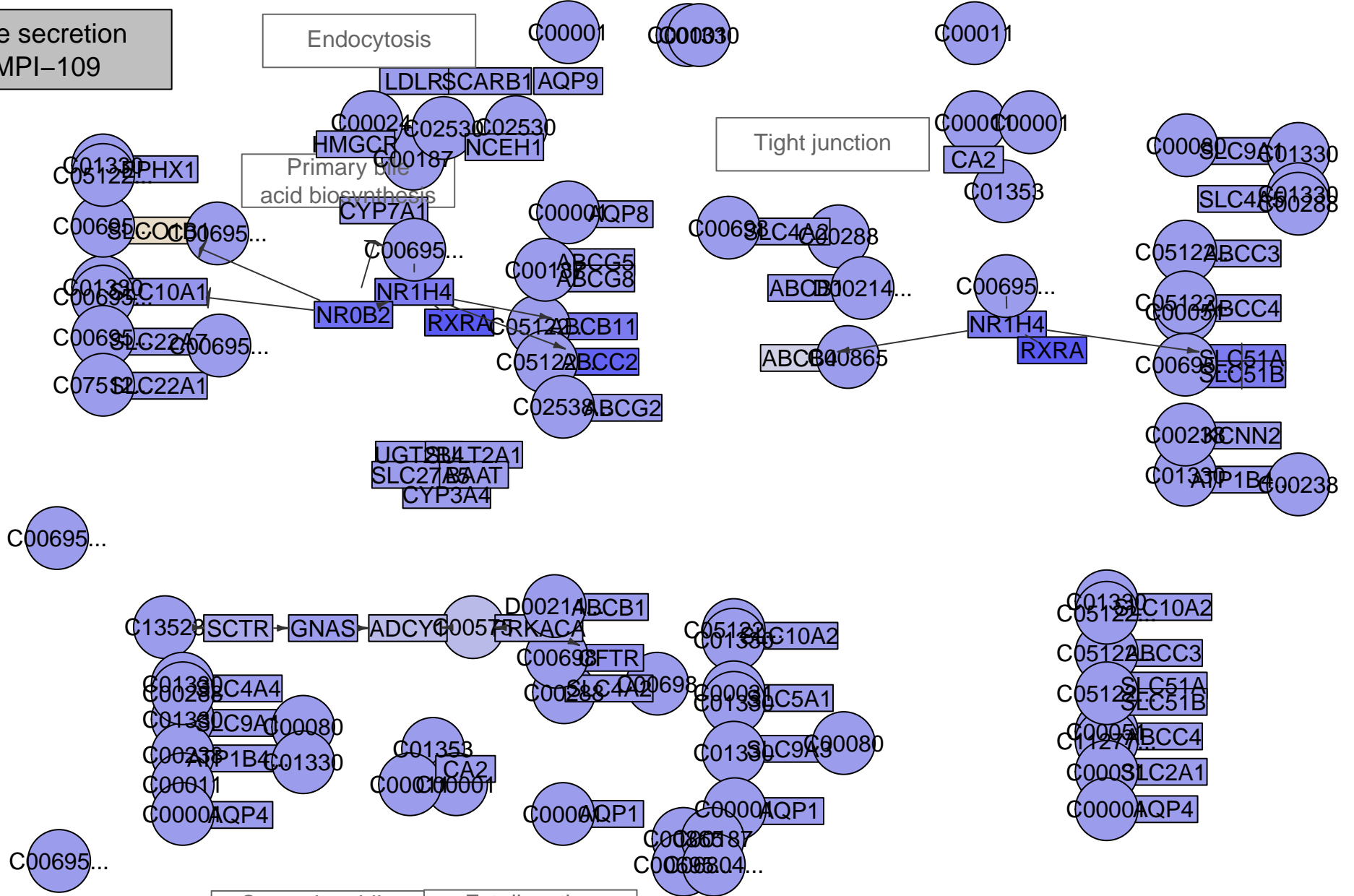
Endocytosis

Tight junction

Primary bile acid biosynthesis

Secondary bile acid biosynthesis

Fat digestion and absorption



Bile secretion
MPI-110

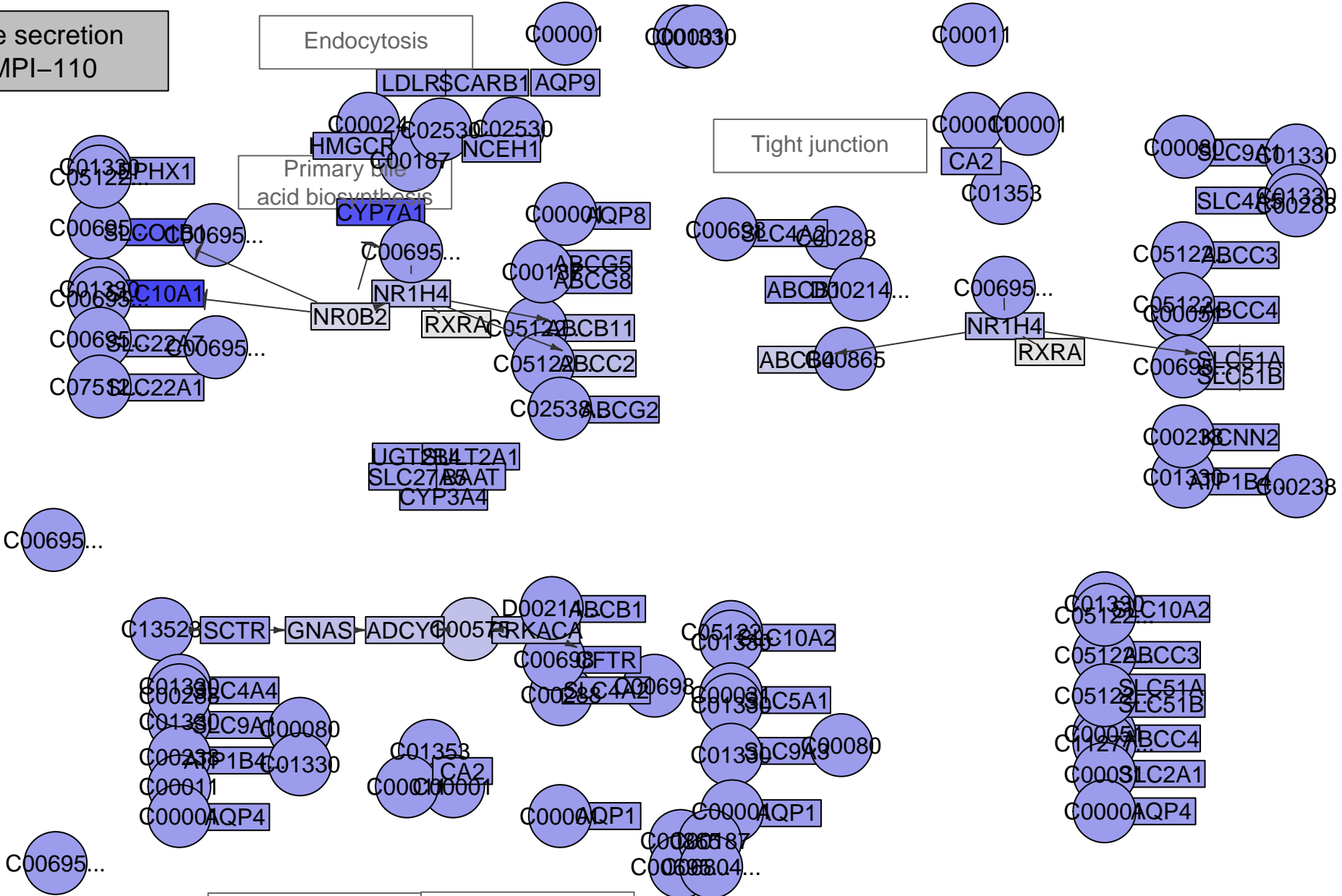
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-111

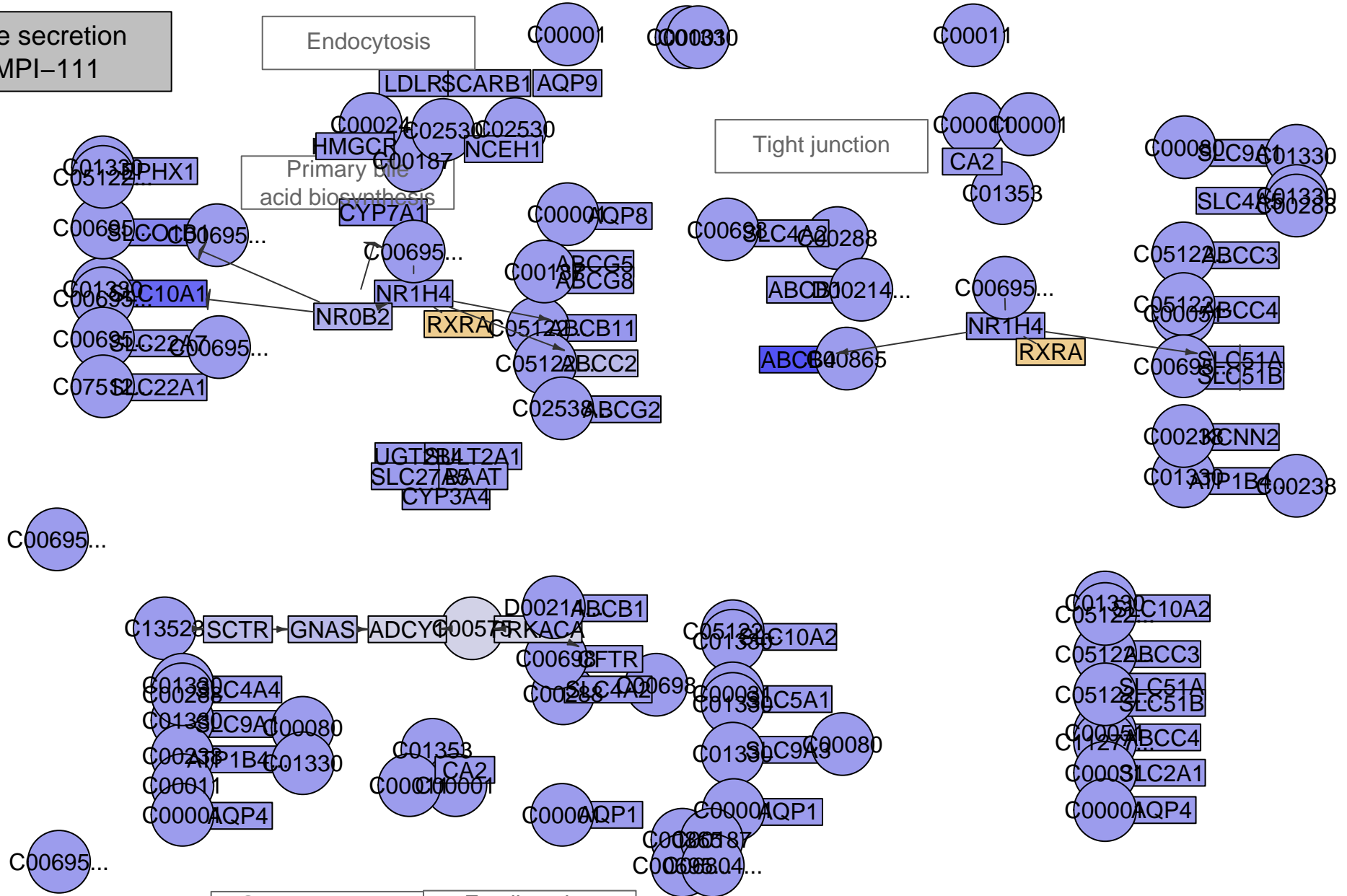
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-122

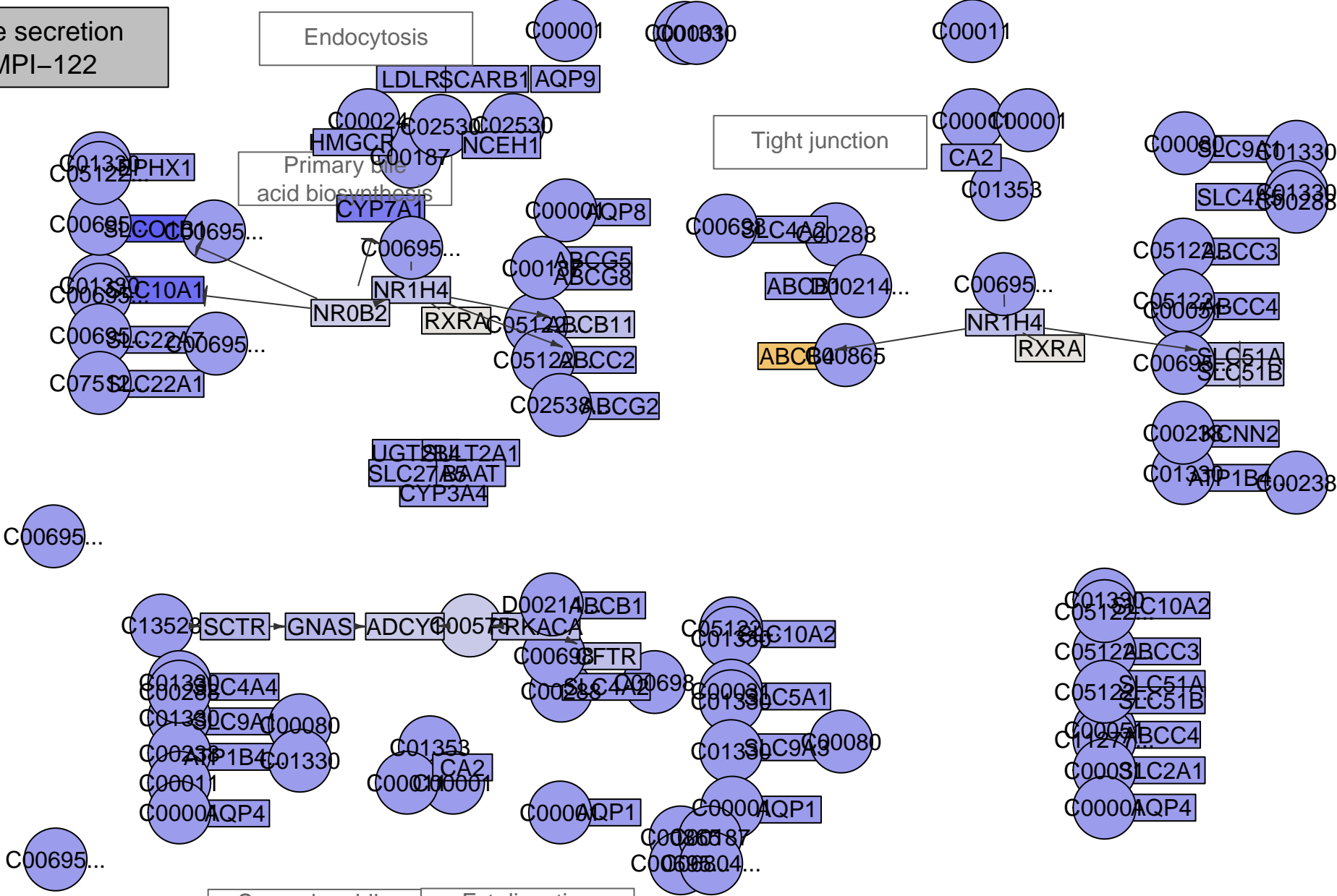
Endocytosis

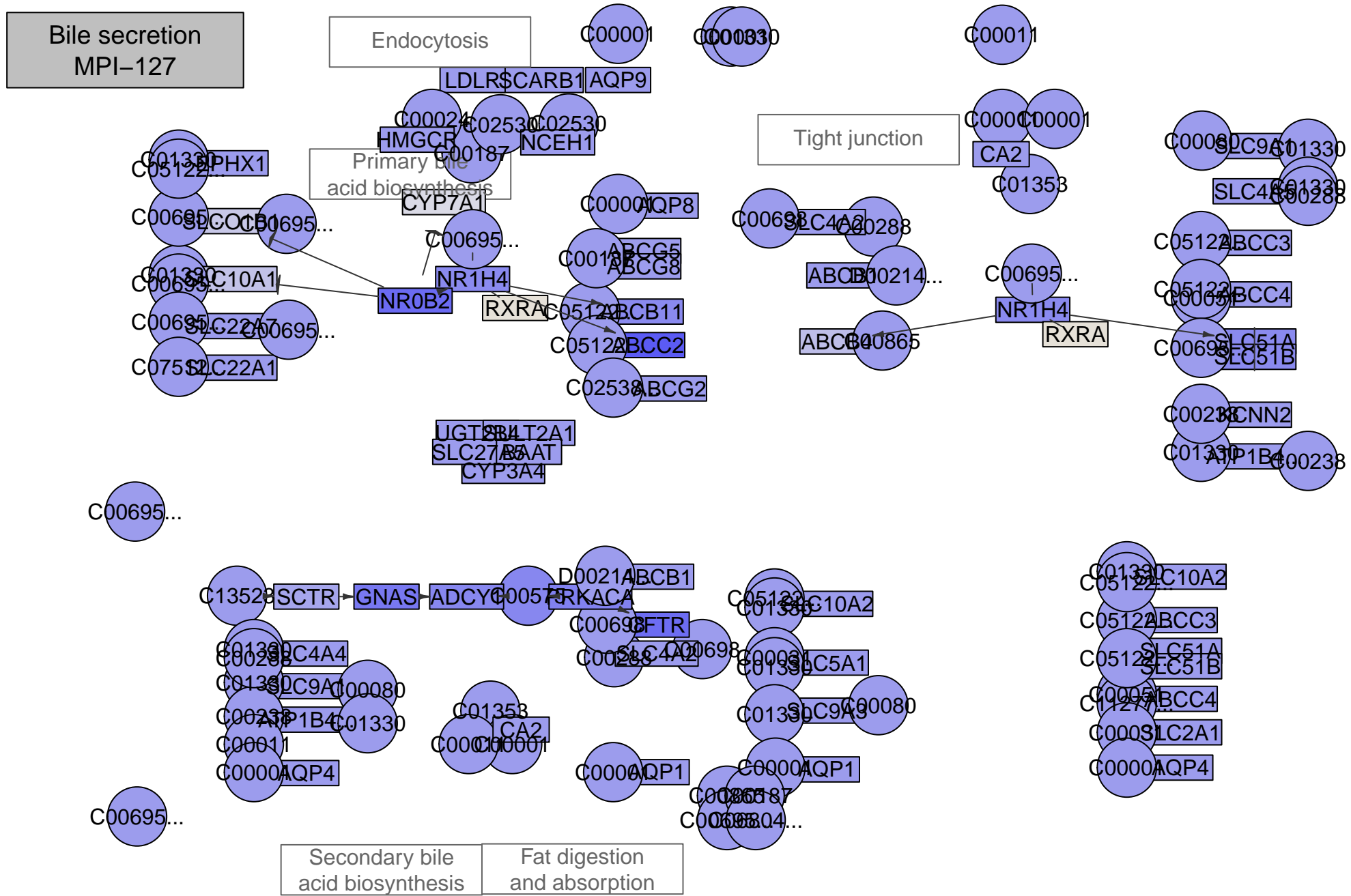
Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption





Bile secretion
MPI-129

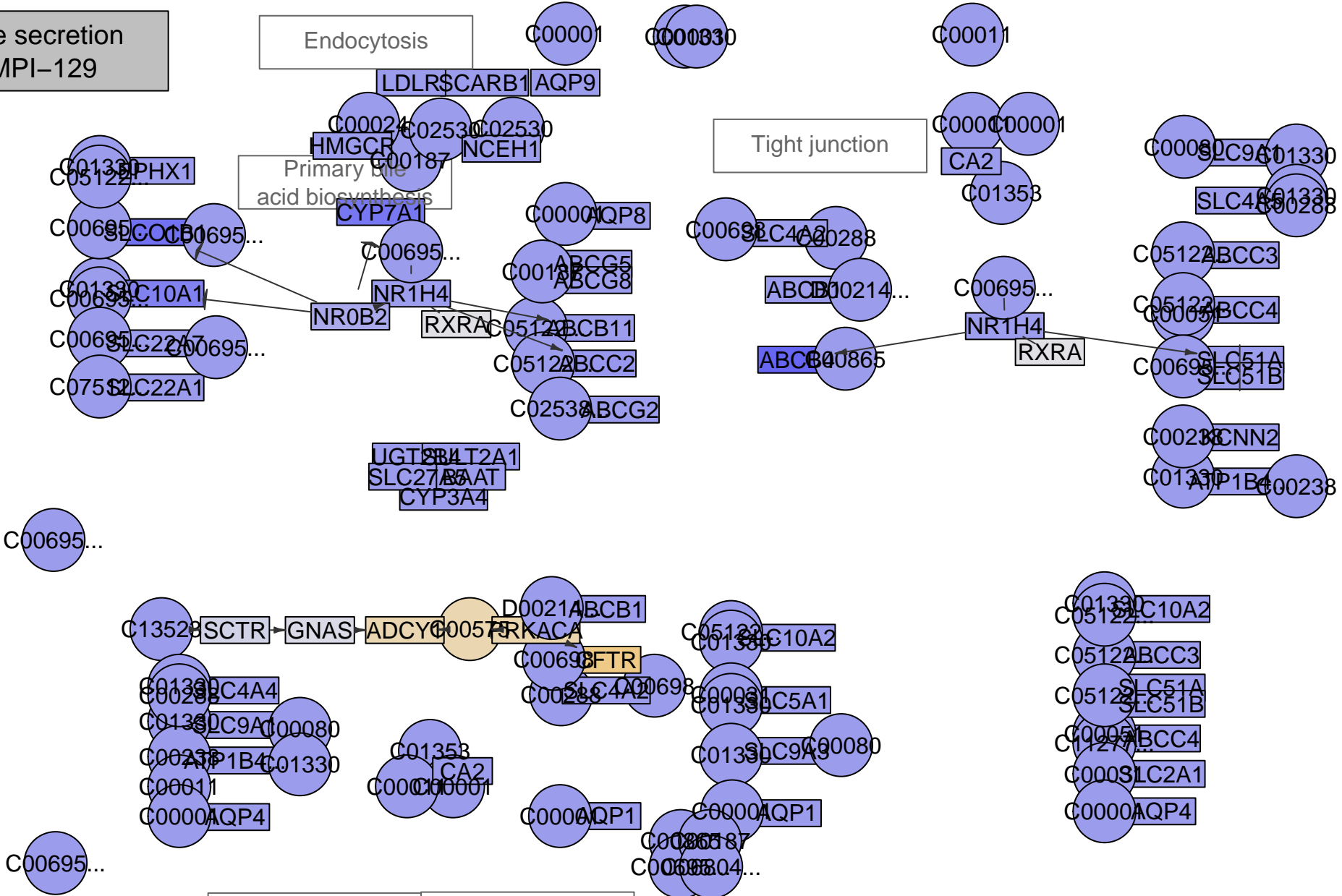
Endocytosis

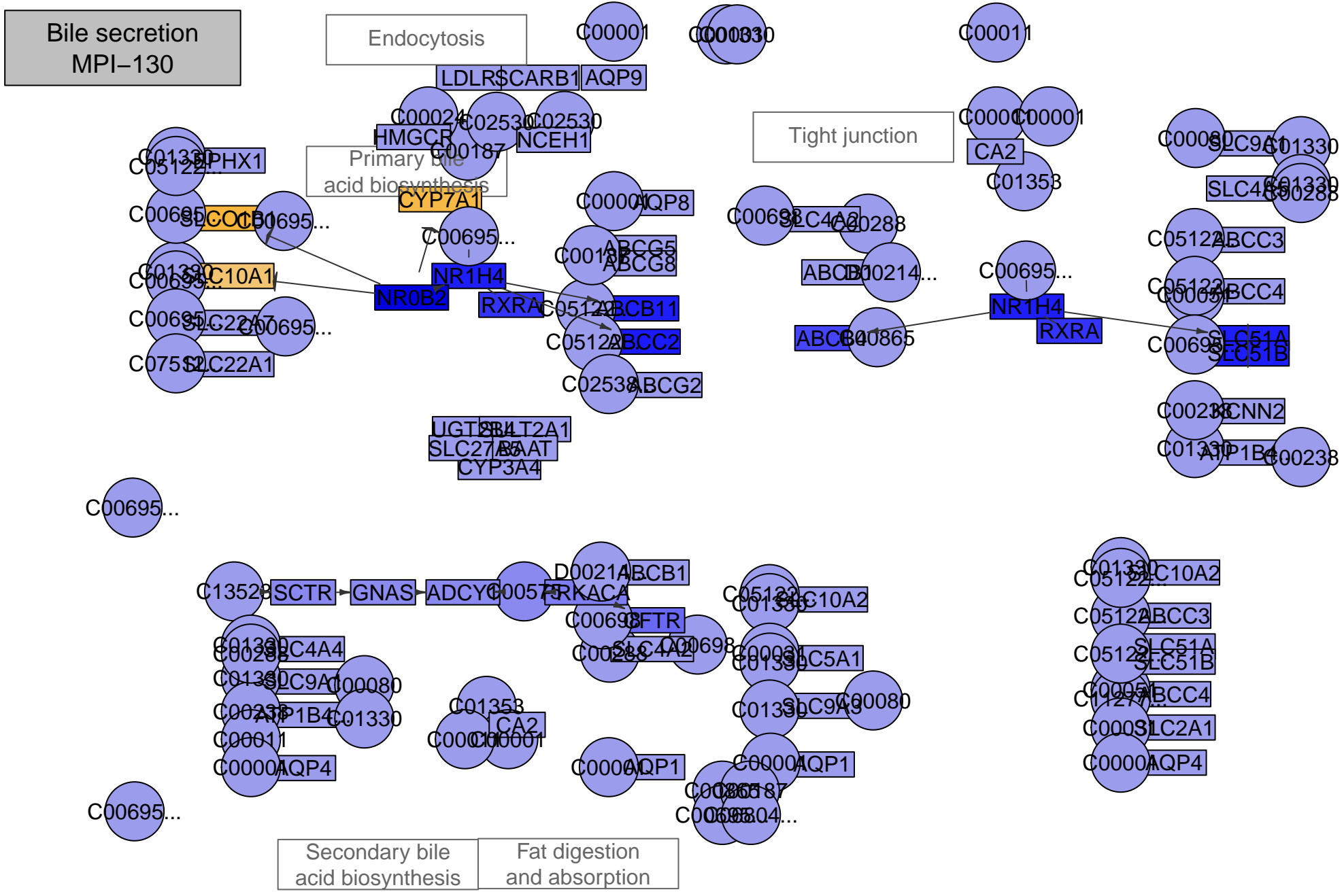
Primary bile
acid biosynthesis

Tight junction

Secondary bile
acid biosynthesis

Fat digestion
and absorption





Bile secretion
MPI-134

Endocytosis

C00001

C000030

C000011

LDLR, SCARB1, AQP9

C00024, C02530, C02530

HMGCR, C00187, NCEH1

Tight junction

C00001, C00001

C00001, SLC9A3, C01330

Primary bile
acid biosynthesis

C01330, PHX1, C05122

CYP7A1, C00001, AQP8

C00695, SLC4A2, C00288

SLC4A2, SLC9A3, C01330, SLC4A2, C00288

C00695, SDC1, C00695...

C00695, NR1H4, C00101, ABCG5, ABCG8

C00695, SLC4A2, ABCB1, C00214...

C05122, ABCG3, C01330

C01330, C10A1, C00695...

NR0B2, RXRAC, C05122, ABCB11

ABCB1, C00865, C00695...

C05122, ABCG3, C05122, ABCG4

C00695, SLC22A7, C00695...

C00695, NR1H4, C05122, ABCB11

C00695, NR1H4, RXRA

C00695, SLC51A, SLC51B

C00695, SLC22A7, C00695...

C05122, ABCB2, C02530, ABCG2

ABCB1, C00865, NR1H4, RXRA

C00695, SLC51A, SLC51B

C075, SLC22A1

C05122, ABCG2

ABCB1, C00865, NR1H4, RXRA

C00695, SLC51A, SLC51B

UGT2B4, T2A1

SLC27A1, BAAT

CYP3A4

C00288, CNN2

C01330, ATP1B4, C00238

C00695...

C13528, SCTR, GNAS, ADCY6, C00575, PKACA

D00214, ABCB1, FTR, C00695, SLC4A2, C00698, C00288, SLC4A2, C00698

C05122, SLC10A2, C01330

C01330, SLC10A2, C05122

C01330, SCTR, GNAS, ADCY6, C00575, PKACA

D00214, ABCB1, FTR, C00695, SLC4A2, C00698, C00288, SLC4A2, C00698

C05122, SLC10A2, C01330

C01330, SLC10A2, C05122

C00288, SCTR, GNAS, ADCY6, C00575, PKACA

D00214, ABCB1, FTR, C00695, SLC4A2, C00698, C00288, SLC4A2, C00698

C05122, SLC10A2, C01330

C01330, SLC10A2, C05122

C01330, SCTR, GNAS, ADCY6, C00575, PKACA

D00214, ABCB1, FTR, C00695, SLC4A2, C00698, C00288, SLC4A2, C00698

C05122, SLC10A2, C01330

C01330, SLC10A2, C05122

C01330, SCTR, GNAS, ADCY6, C00575, PKACA

D00214, ABCB1, FTR, C00695, SLC4A2, C00698, C00288, SLC4A2, C00698

C05122, SLC10A2, C01330

C01330, SLC10A2, C05122

C00080, SCTR, GNAS, ADCY6, C00575, PKACA

D00214, ABCB1, FTR, C00695, SLC4A2, C00698, C00288, SLC4A2, C00698

C05122, SLC10A2, C01330

C01330, SLC10A2, C05122

C00080, SCTR, GNAS, ADCY6, C00575, PKACA

D00214, ABCB1, FTR, C00695, SLC4A2, C00698, C00288, SLC4A2, C00698

C05122, SLC10A2, C01330

C01330, SLC10A2, C05122

C00080, SCTR, GNAS, ADCY6, C00575, PKACA

D00214, ABCB1, FTR, C00695, SLC4A2, C00698, C00288, SLC4A2, C00698

C05122, SLC10A2, C01330

C01330, SLC10A2, C05122

C00080, SCTR, GNAS, ADCY6, C00575, PKACA

D00214, ABCB1, FTR, C00695, SLC4A2, C00698, C00288, SLC4A2, C00698

C05122, SLC10A2, C01330

C01330, SLC10A2, C05122

C00001, SCTR, GNAS, ADCY6, C00575, PKACA

D00214, ABCB1, FTR, C00695, SLC4A2, C00698, C00288, SLC4A2, C00698

C05122, SLC10A2, C01330

C01330, SLC10A2, C05122

C00001, SCTR, GNAS, ADCY6, C00575, PKACA

D00214, ABCB1, FTR, C00695, SLC4A2, C00698, C00288, SLC4A2, C00698

C05122, SLC10A2, C01330

C01330, SLC10A2, C05122

C00001, SCTR, GNAS, ADCY6, C00575, PKACA

D00214, ABCB1, FTR, C00695, SLC4A2, C00698, C00288, SLC4A2, C00698

C05122, SLC10A2, C01330

C01330, SLC10A2, C05122

C00001, SCTR, GNAS, ADCY6, C00575, PKACA

D00214, ABCB1, FTR, C00695, SLC4A2, C00698, C00288, SLC4A2, C00698

C05122, SLC10A2, C01330

C01330, SLC10A2, C05122

C00001, SCTR, GNAS, ADCY6, C00575, PKACA

D00214, ABCB1, FTR, C00695, SLC4A2, C00698, C00288, SLC4A2, C00698

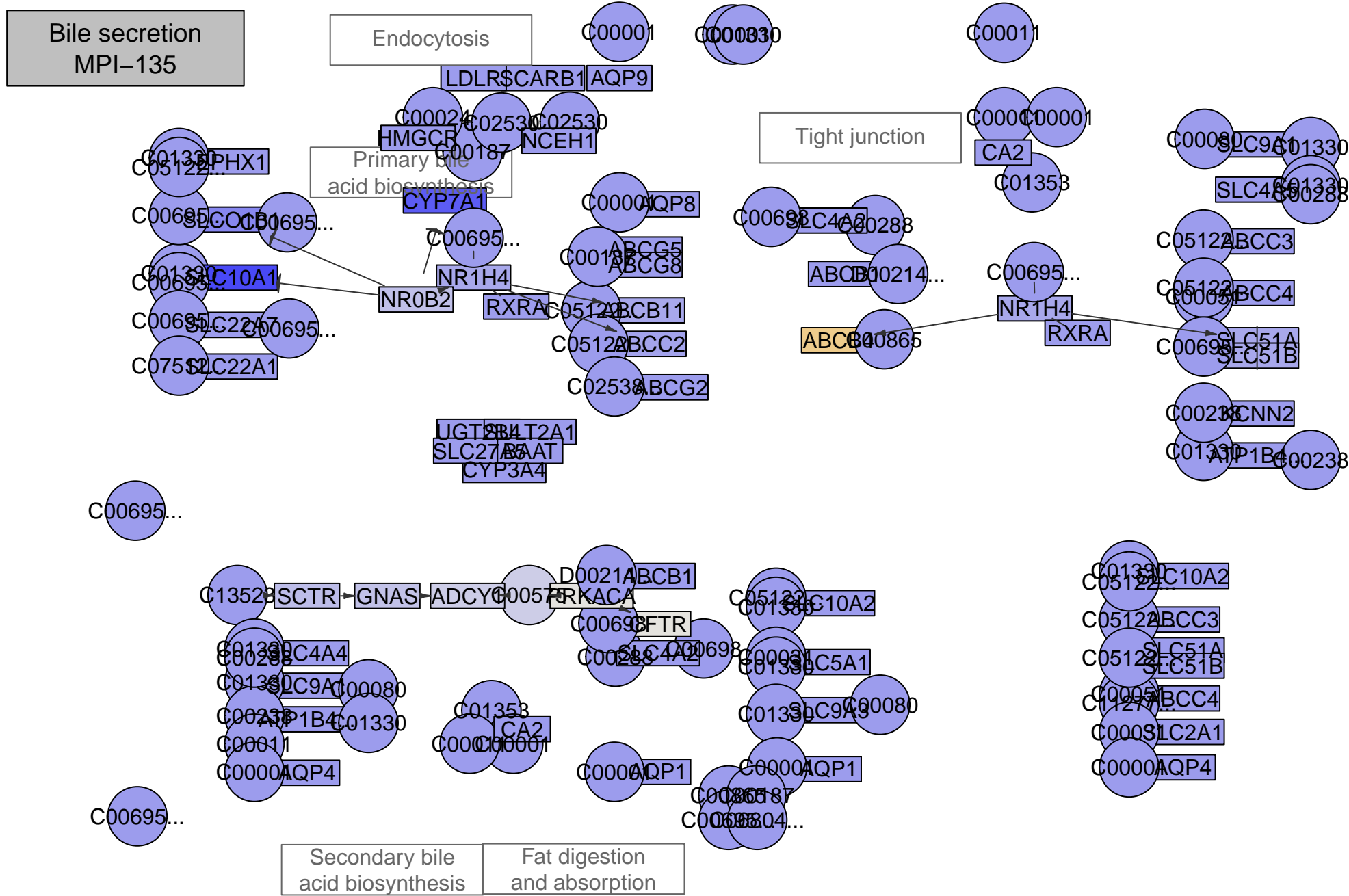
C05122, SLC10A2, C01330

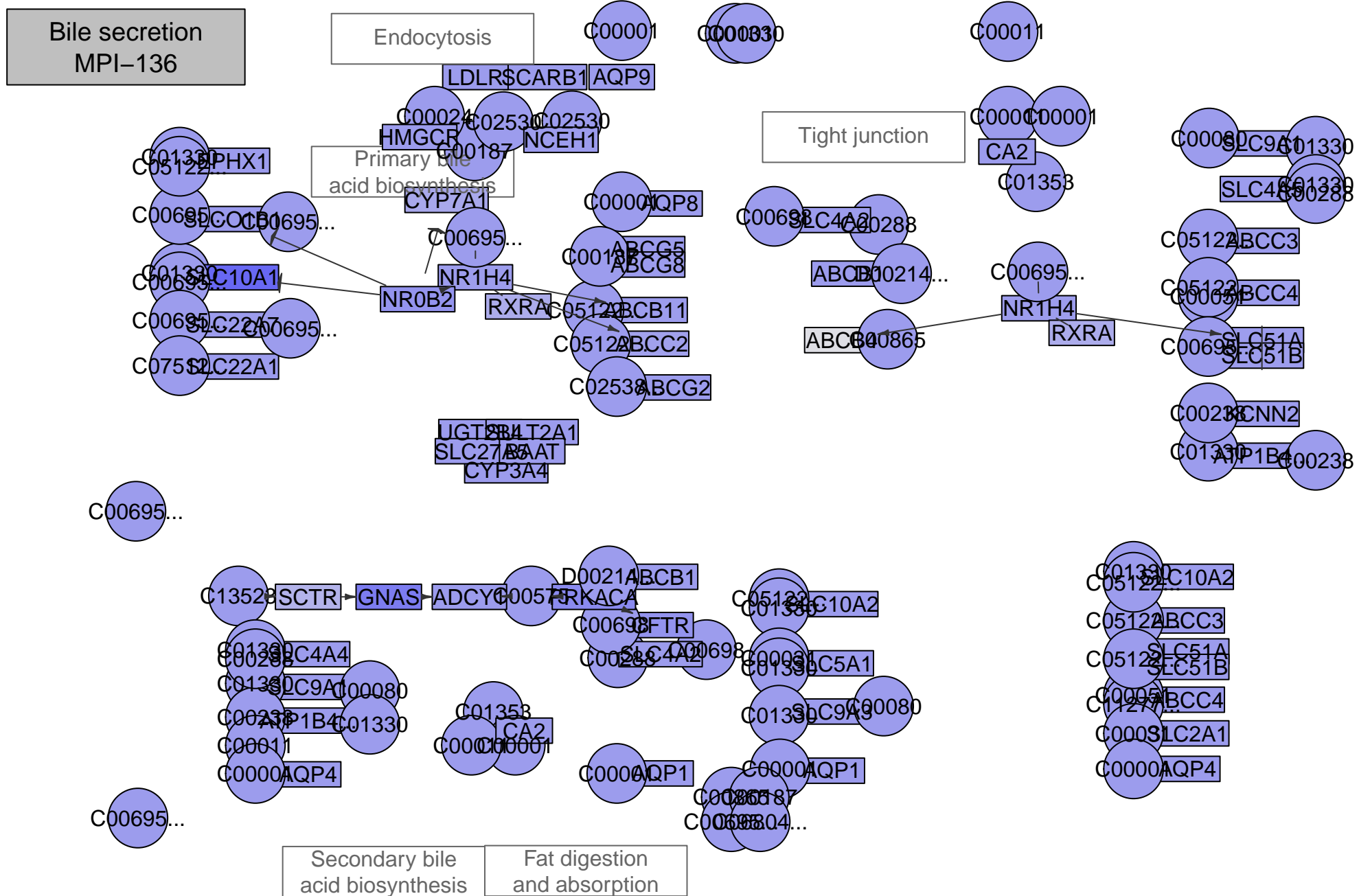
C01330, SLC10A2, C05122

Secondary bile
acid biosynthesis

Fat digestion
and absorption

C00695...





Bile secretion
MPI-142

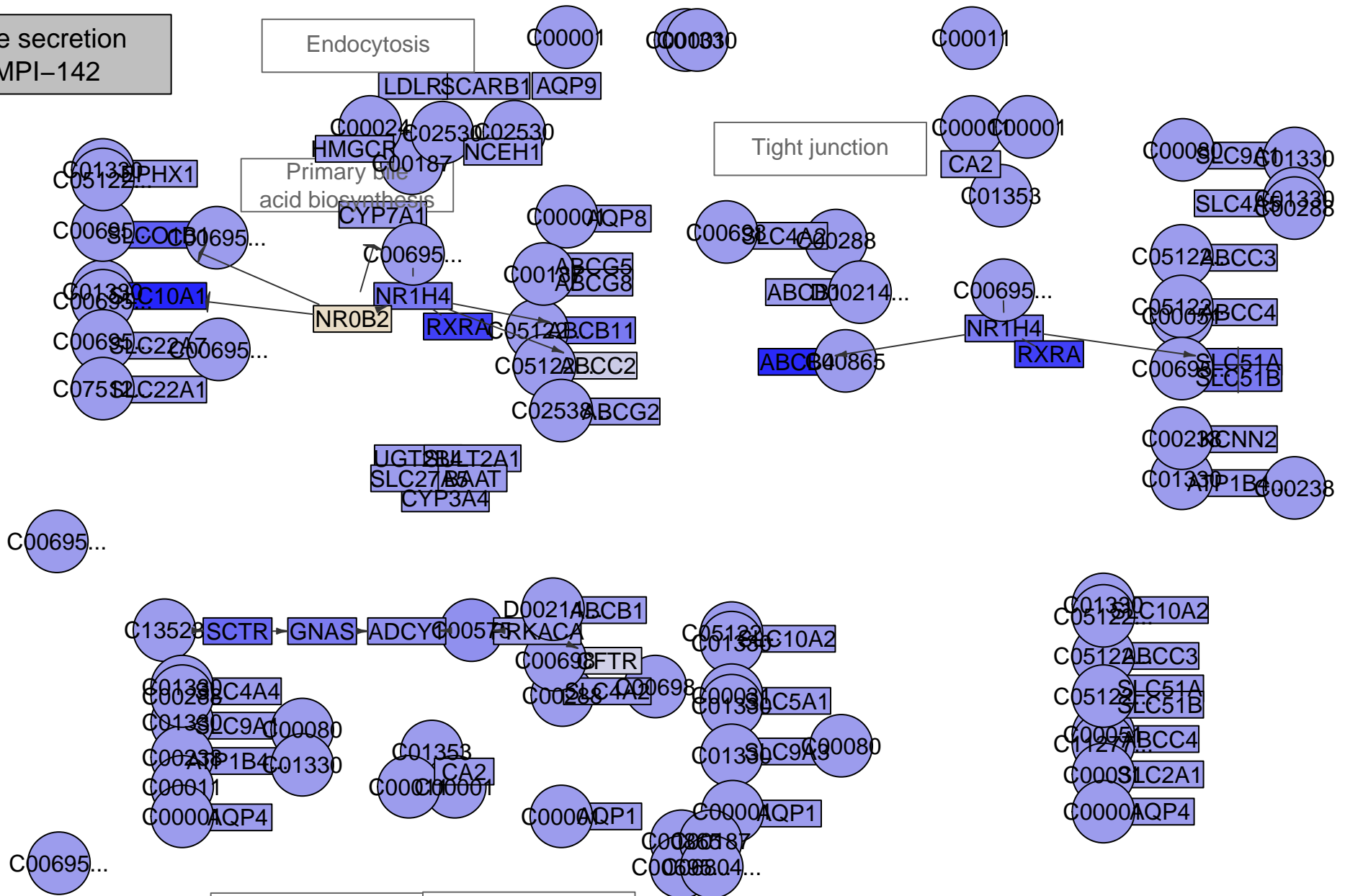
Endocytosis

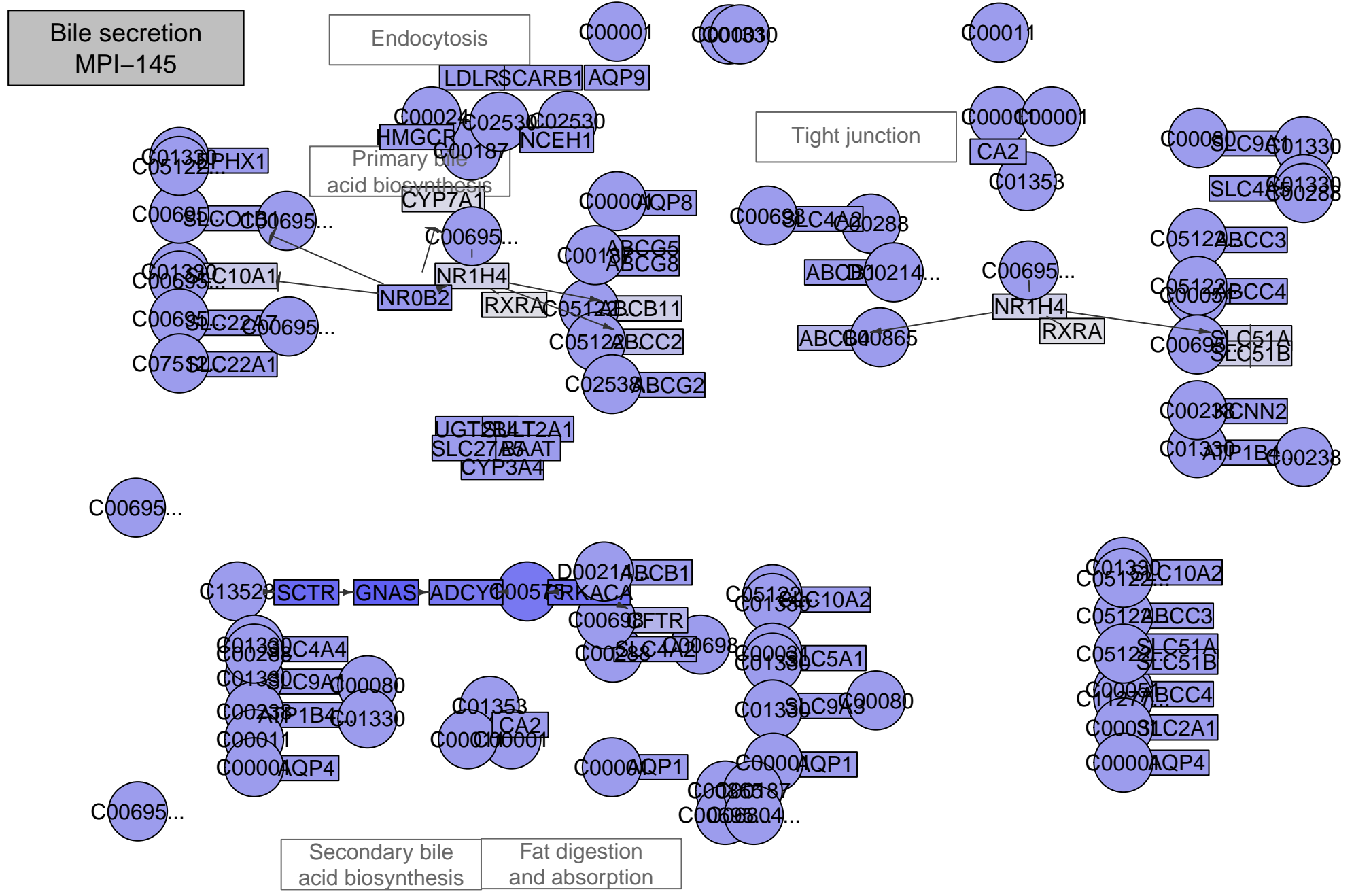
Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption





Bile secretion
MPI-146

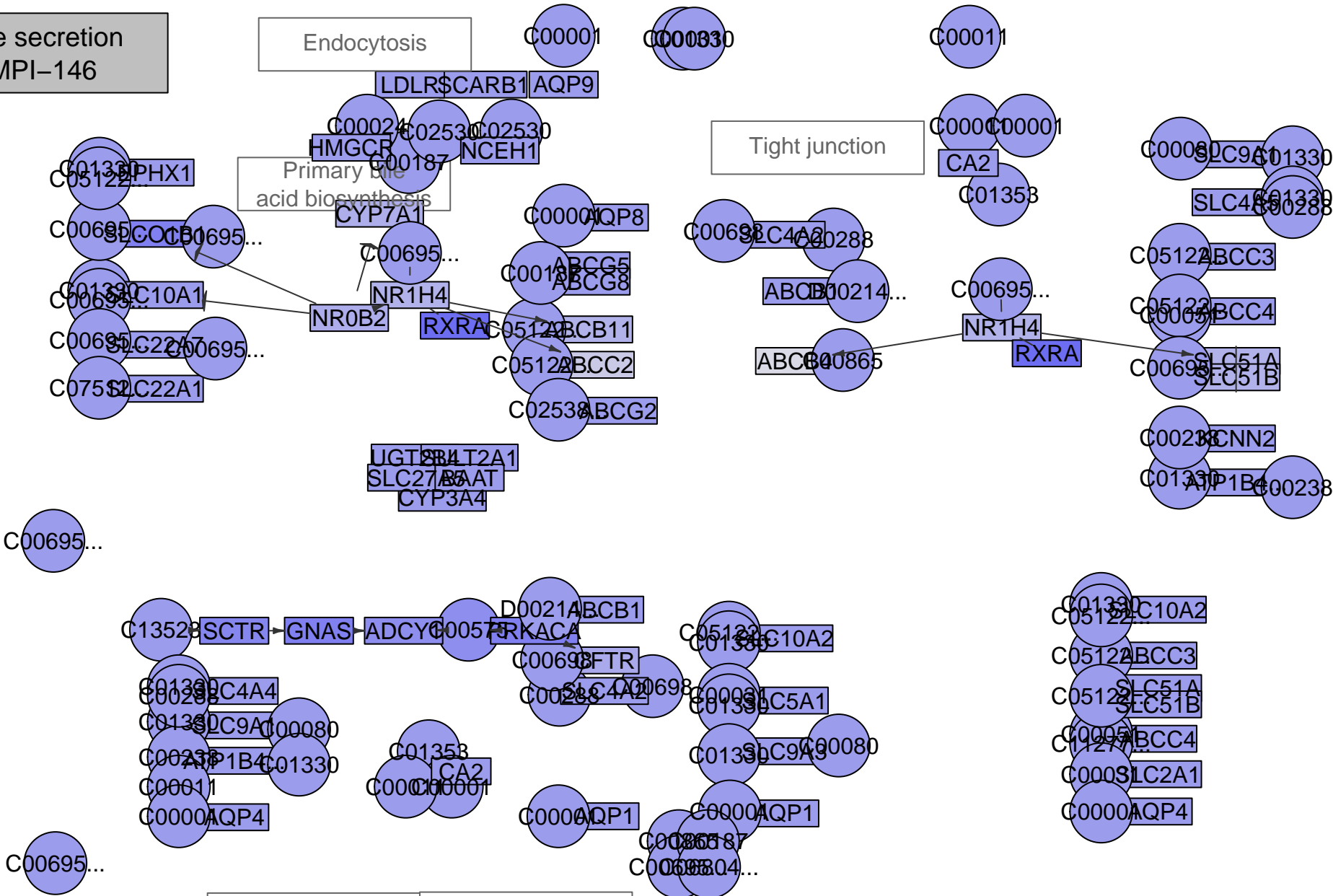
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-149

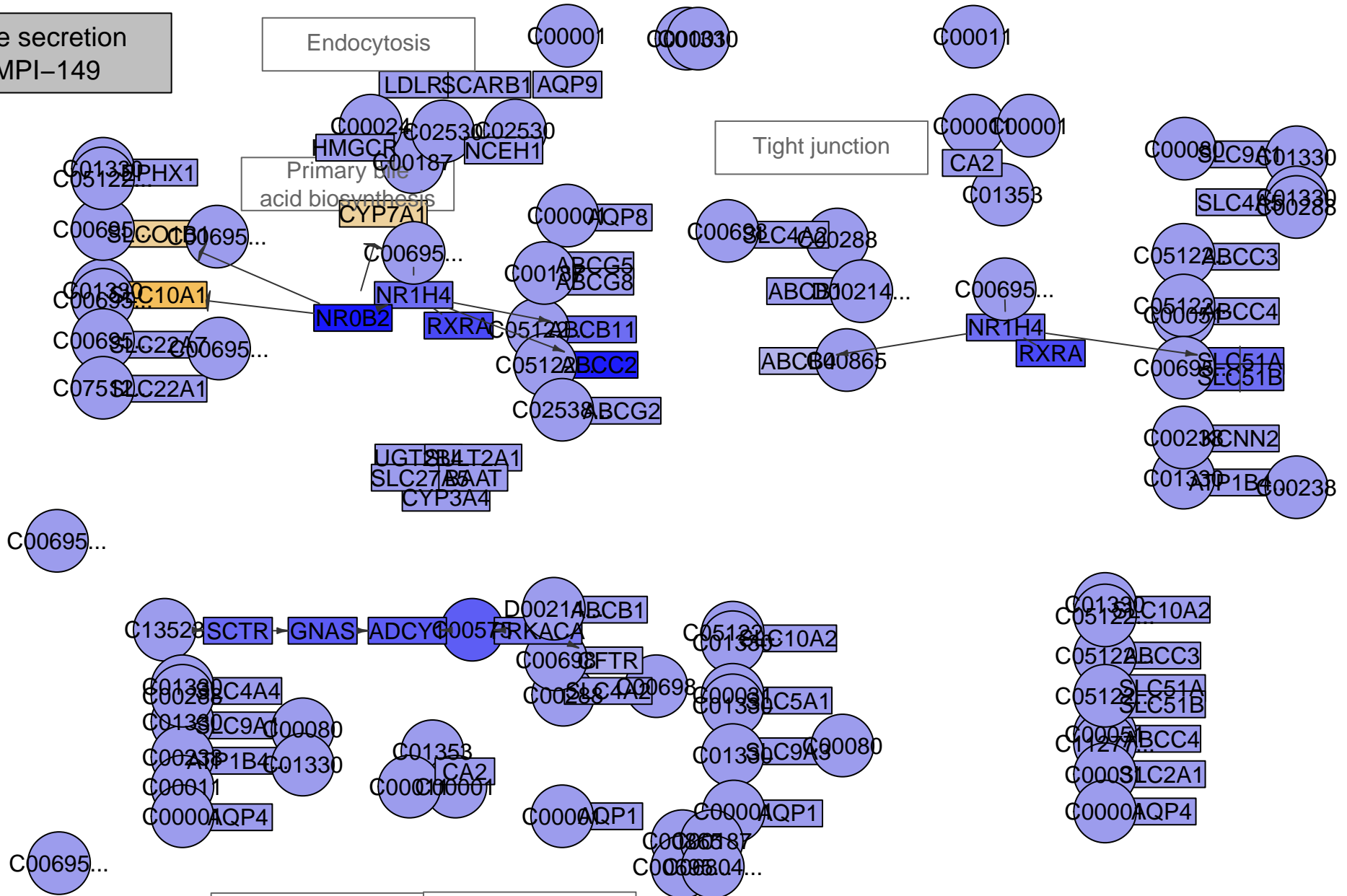
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-151

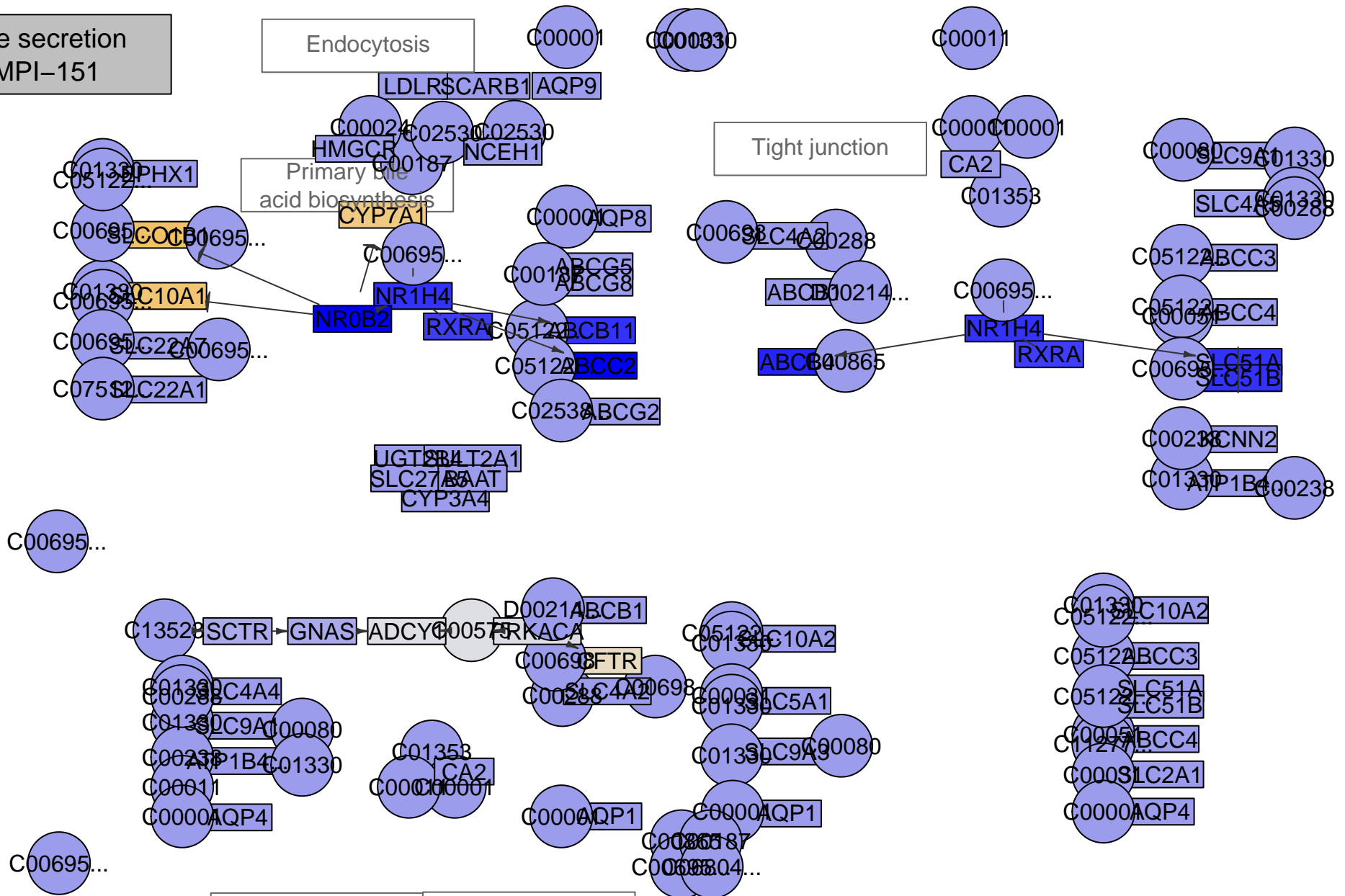
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-153

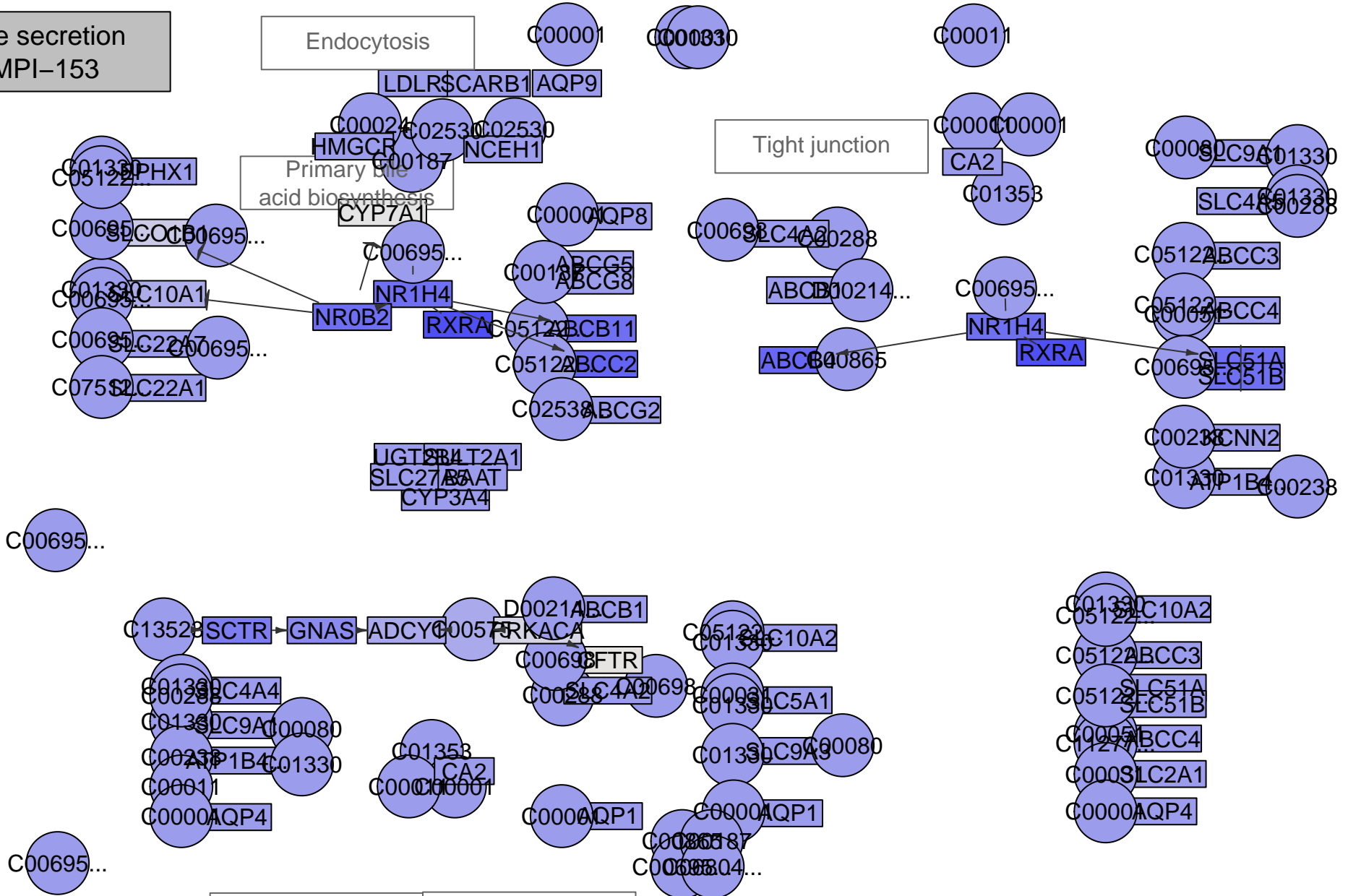
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-154

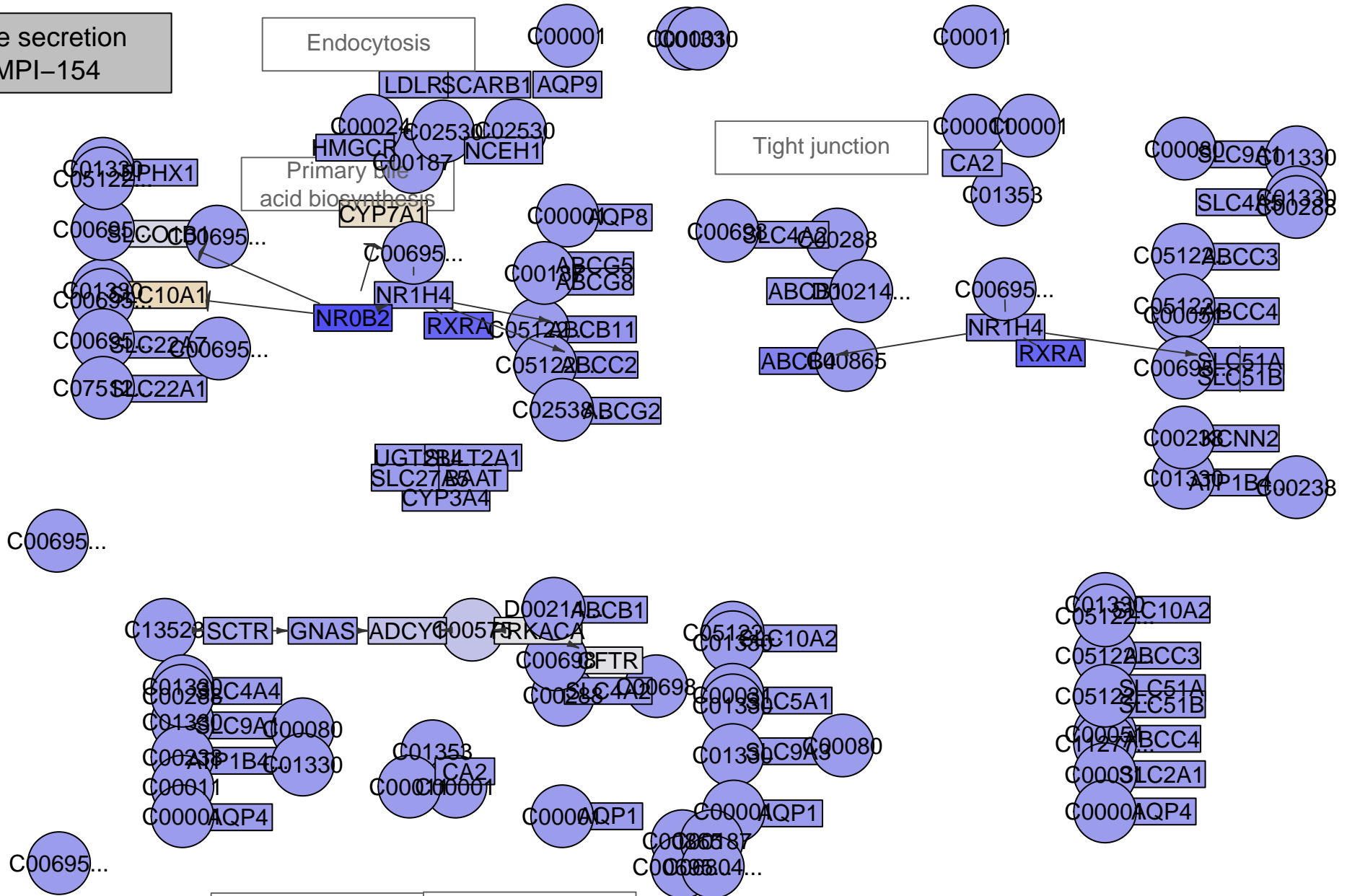
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-163

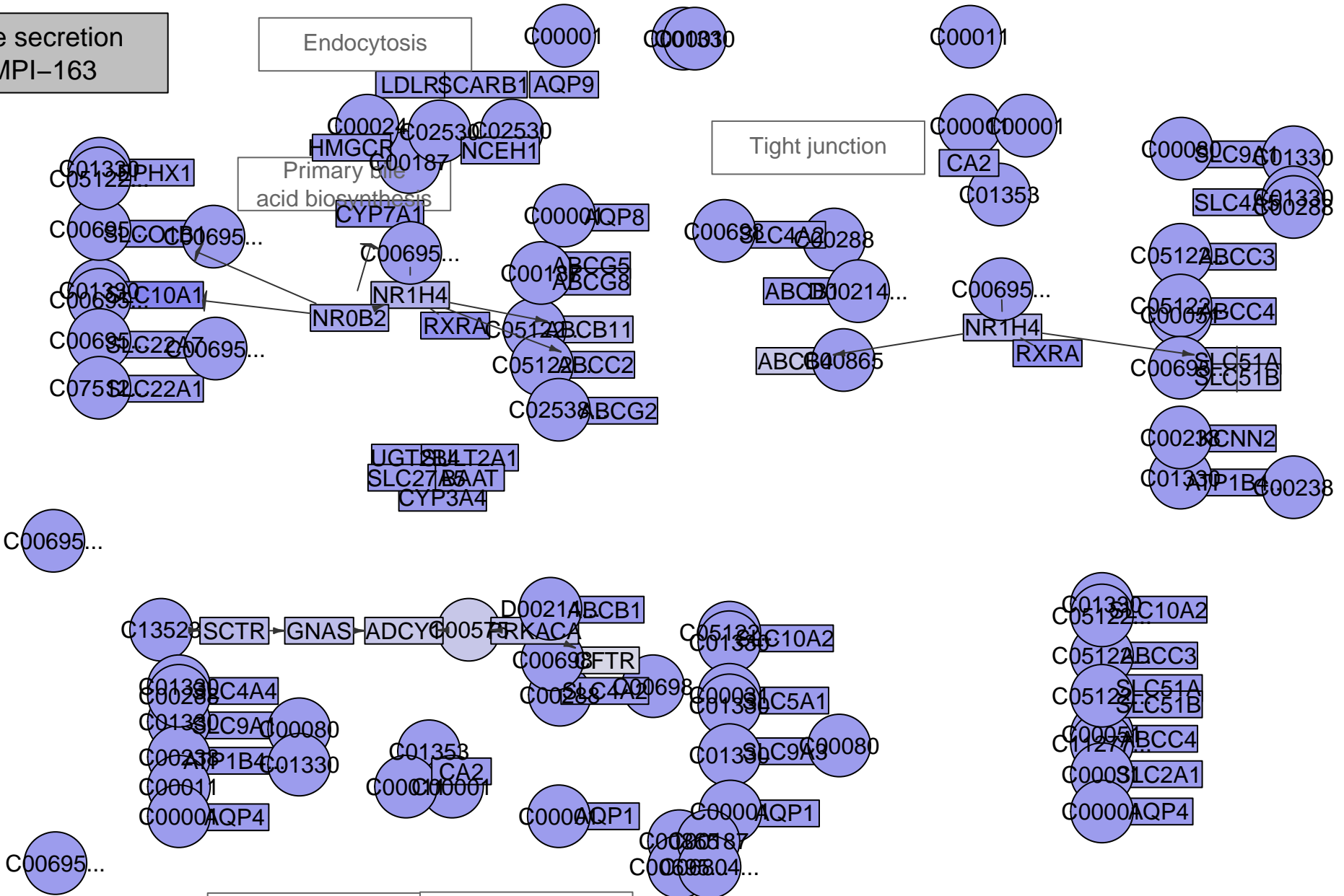
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-164

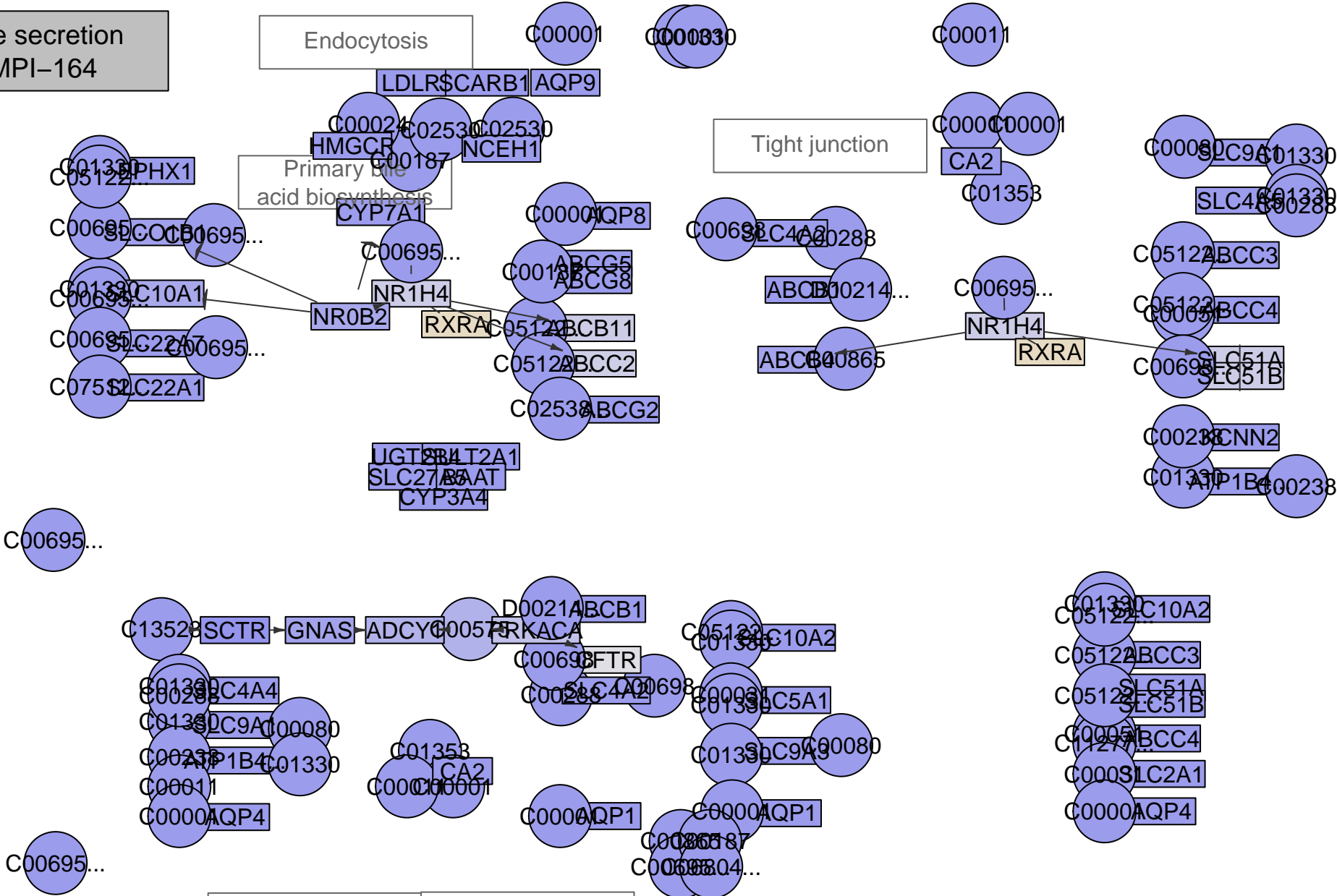
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-166

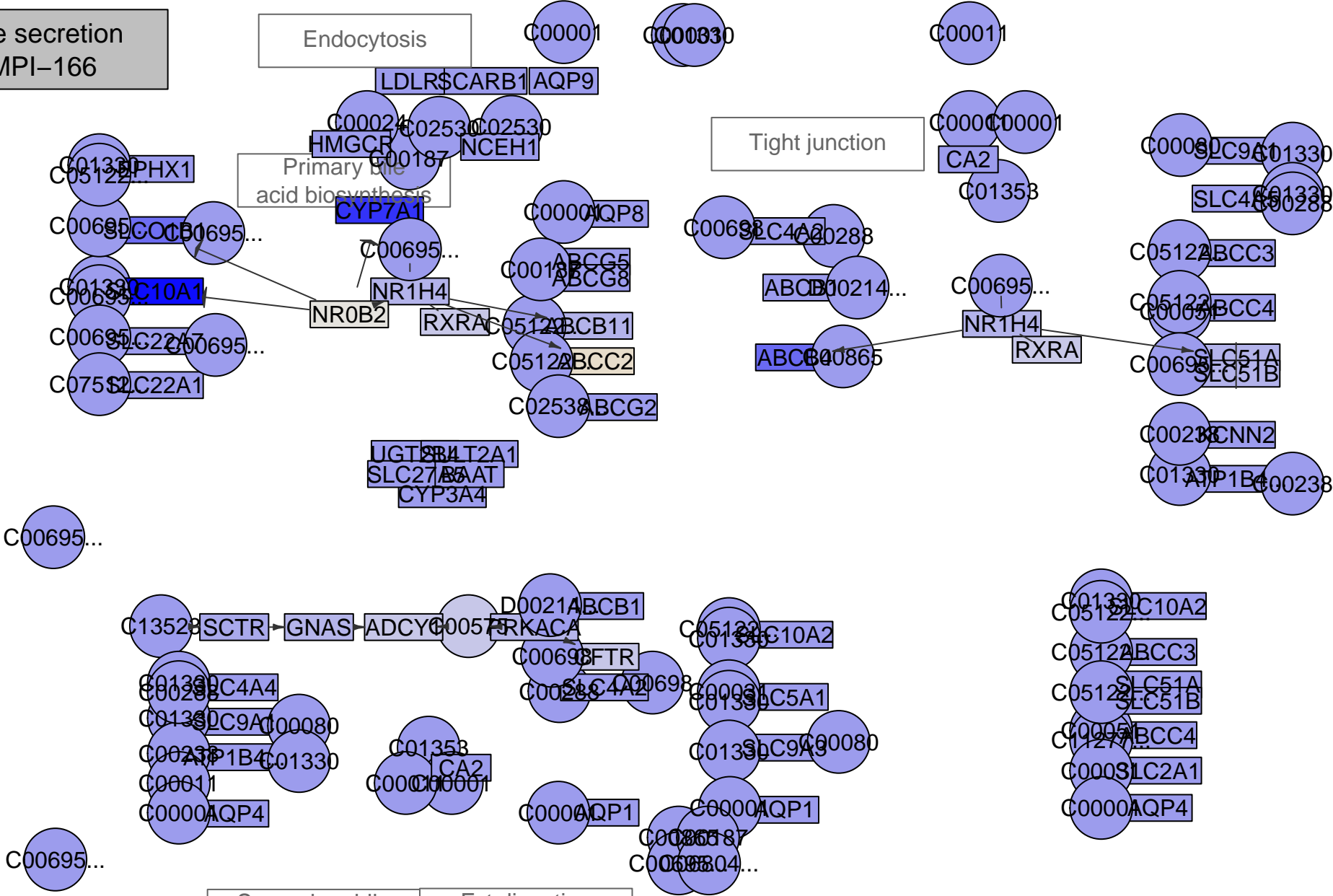
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-168

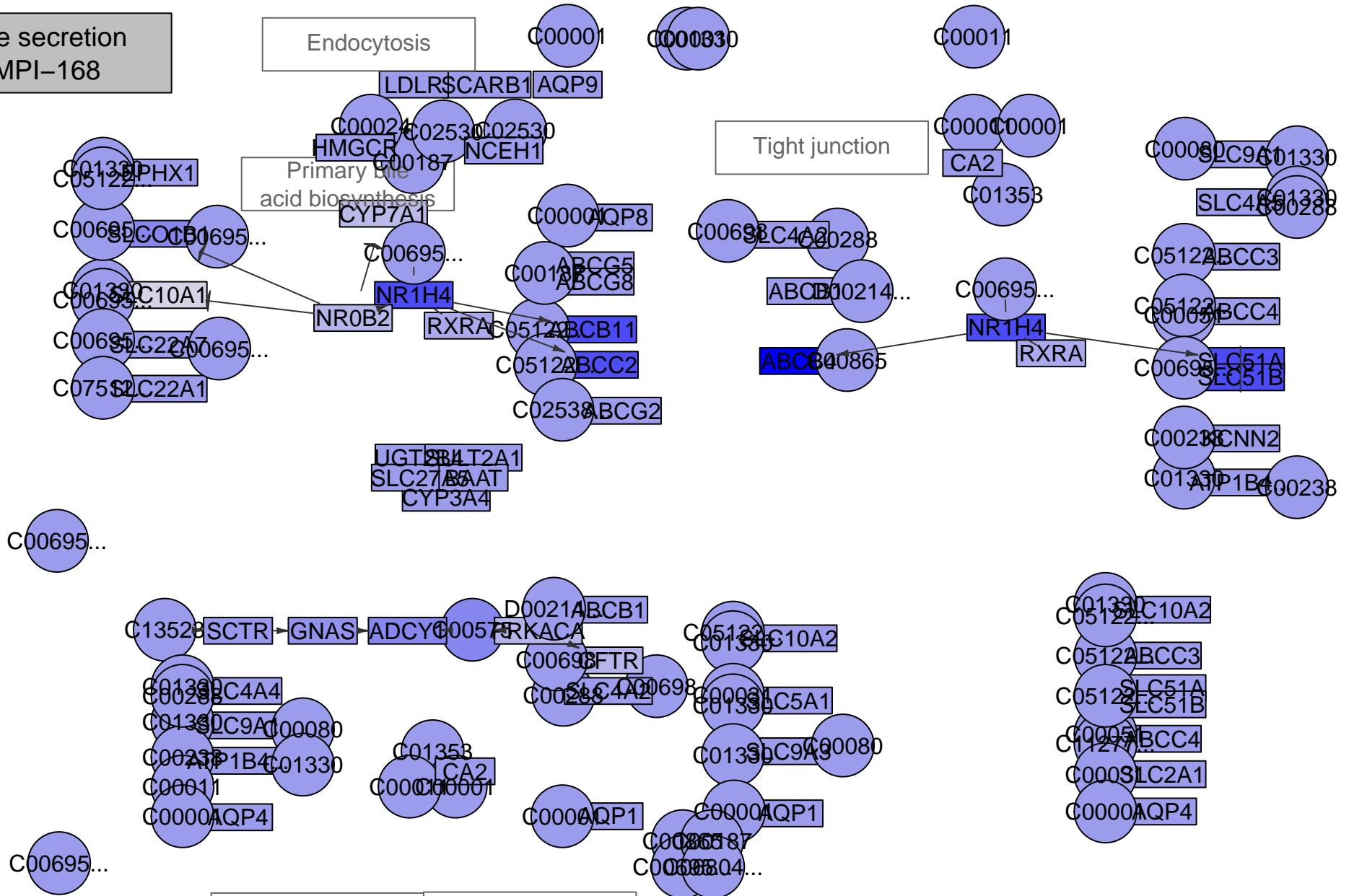
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-170

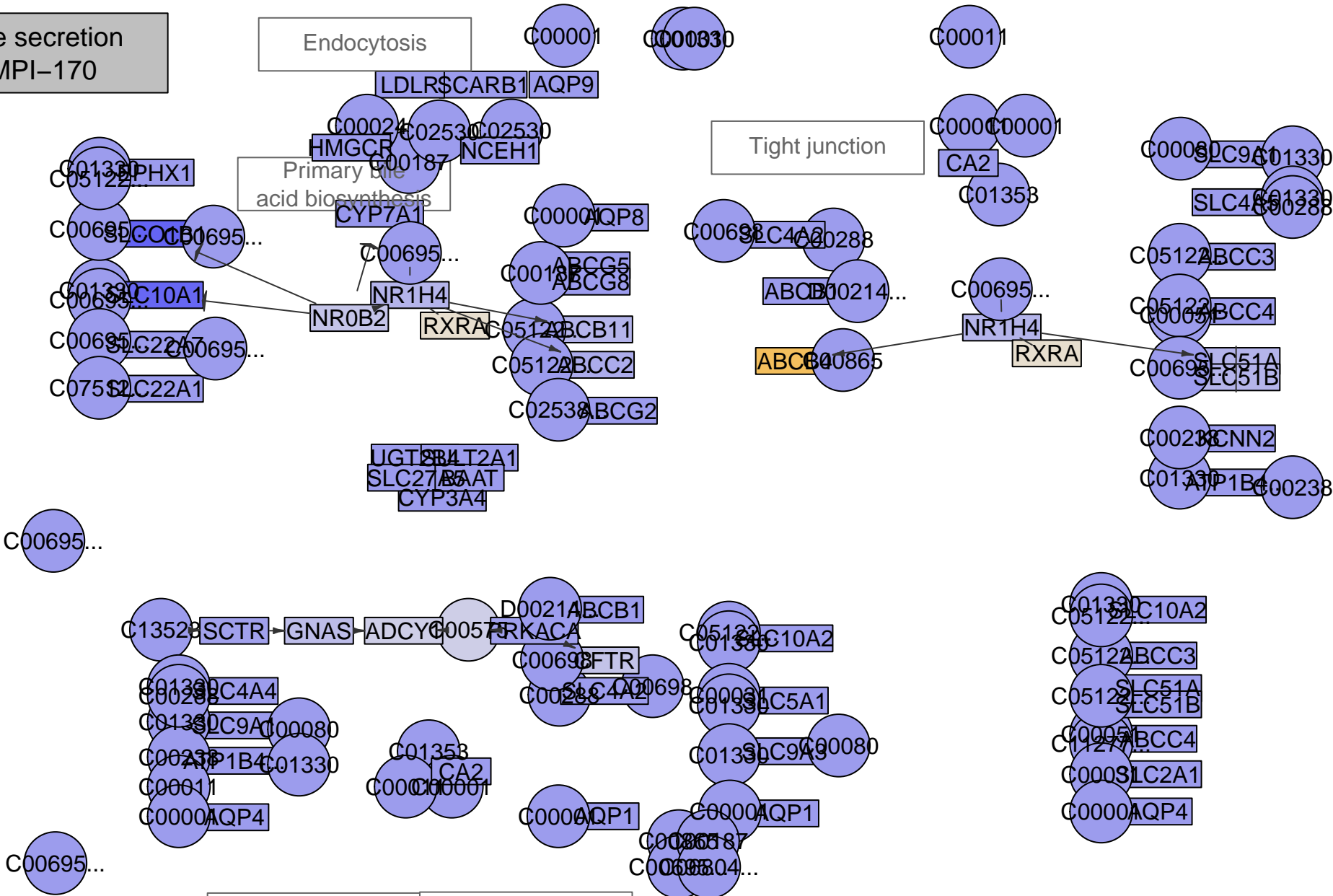
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-173

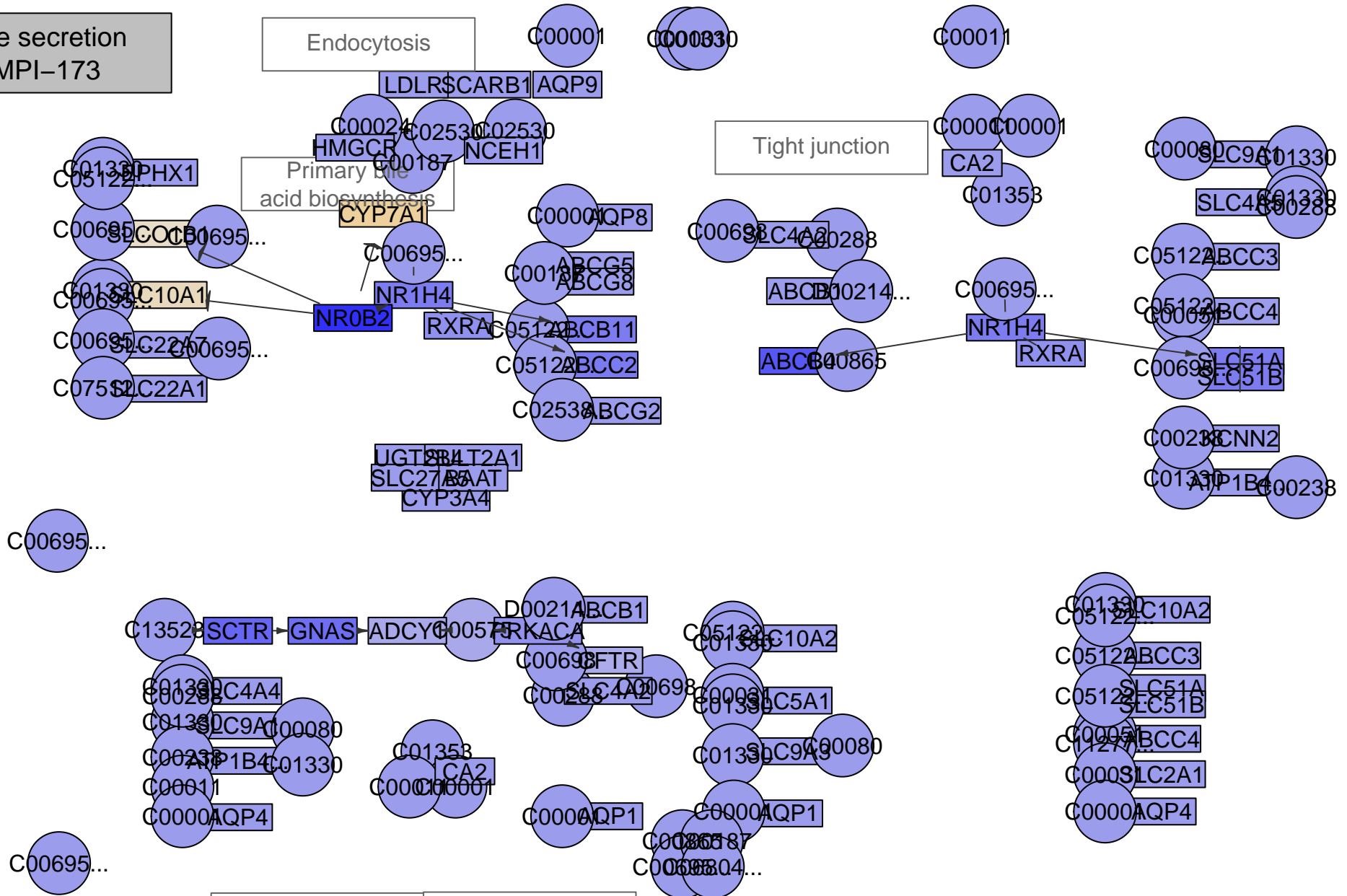
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-176

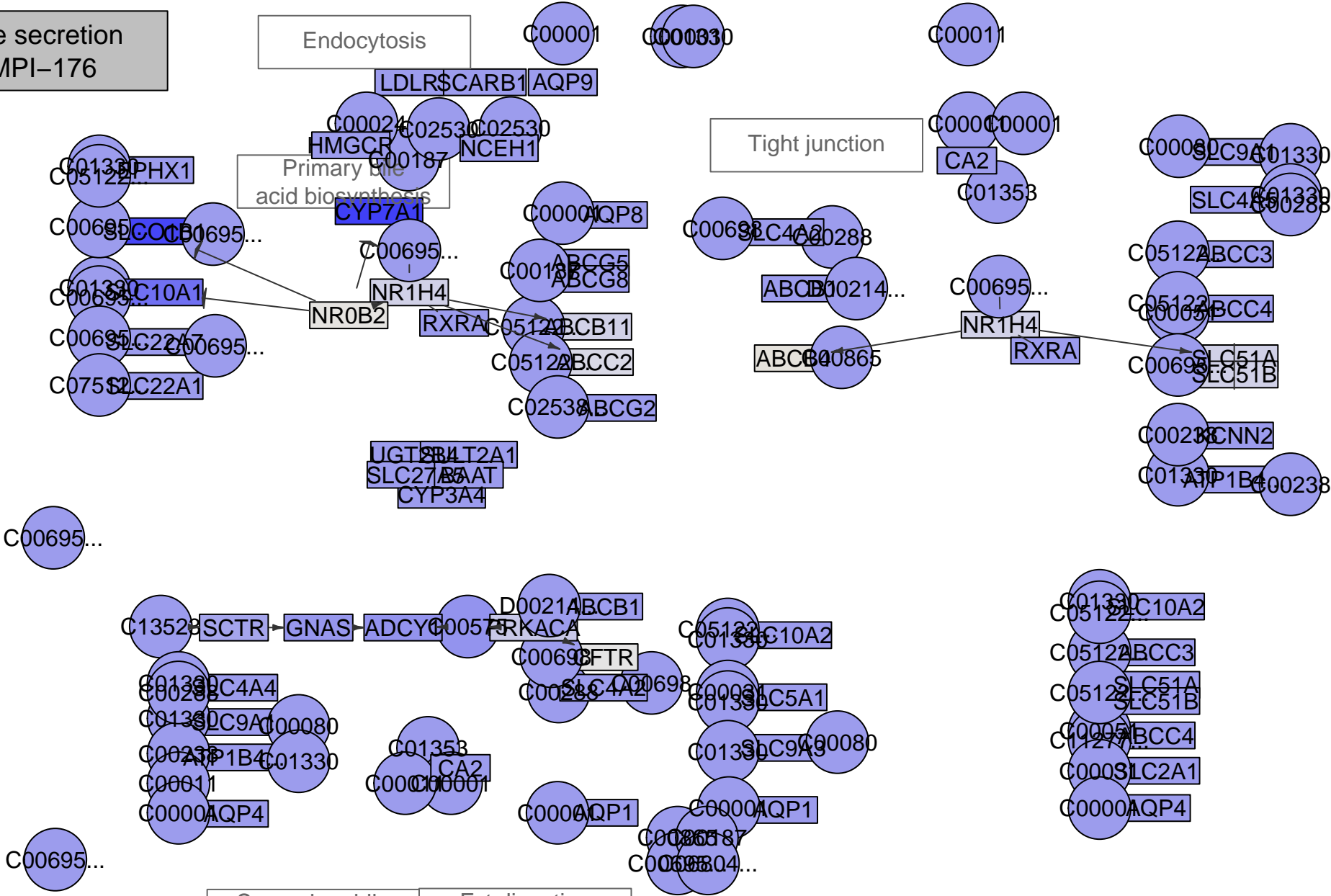
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-177

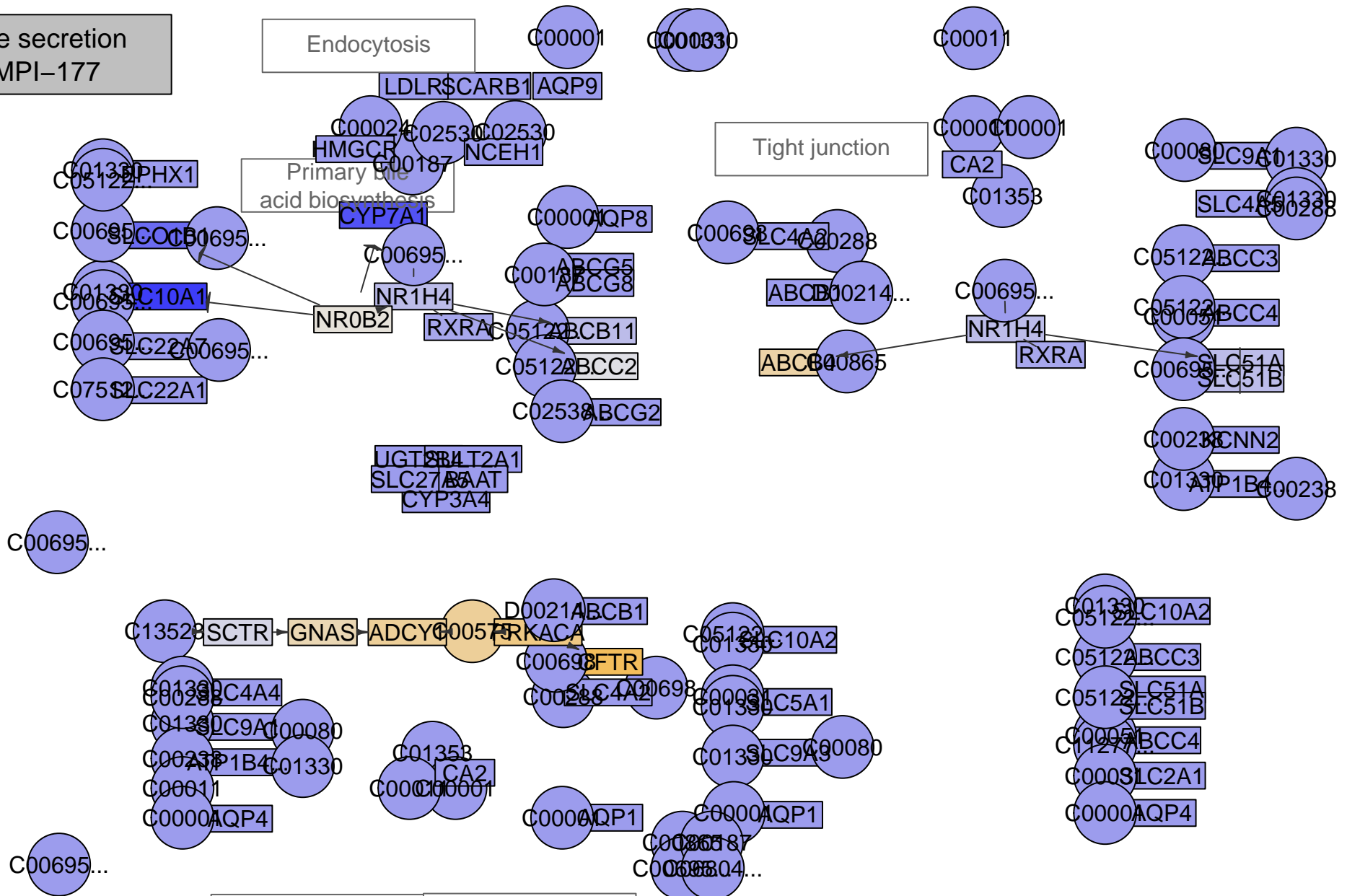
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-179

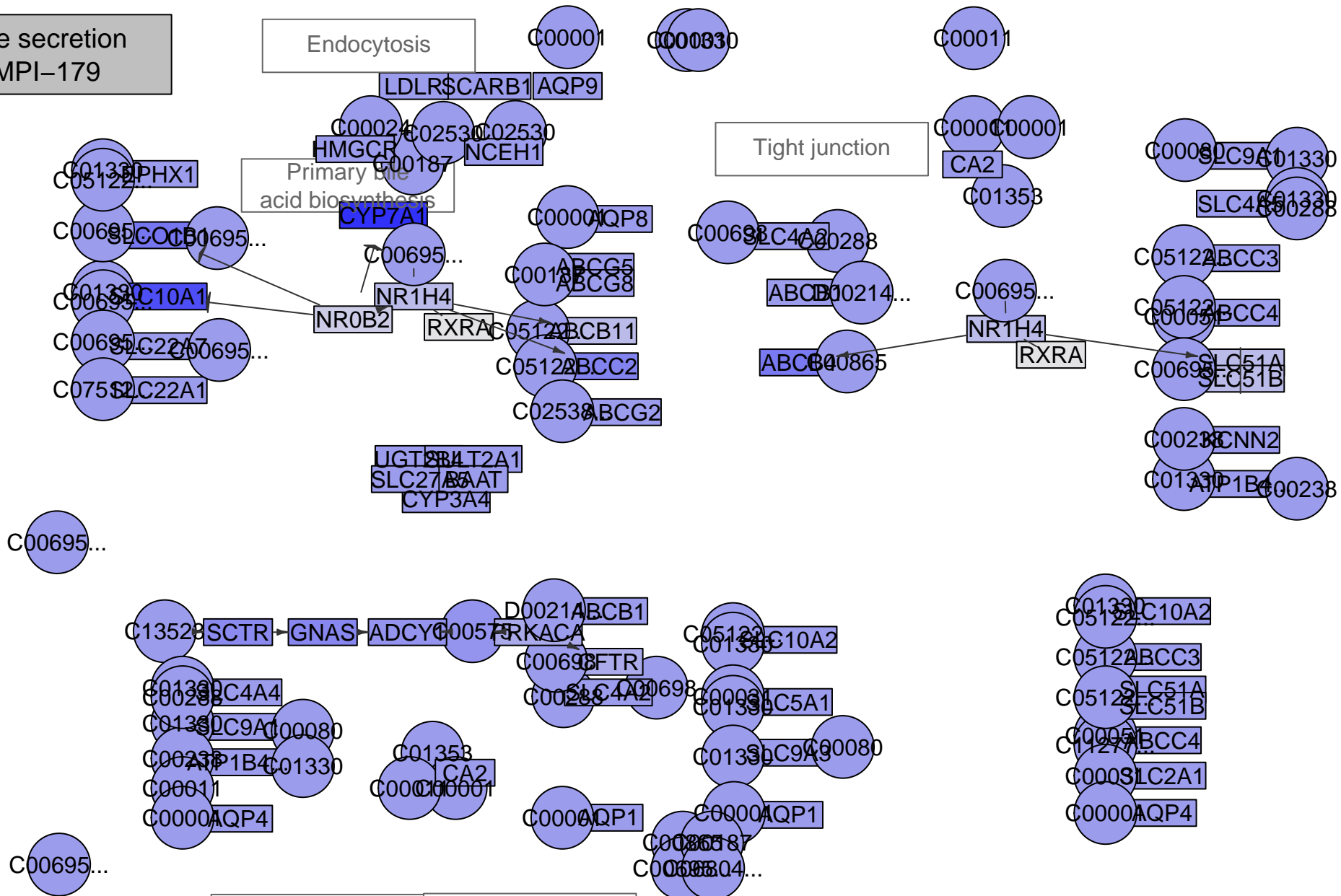
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-183

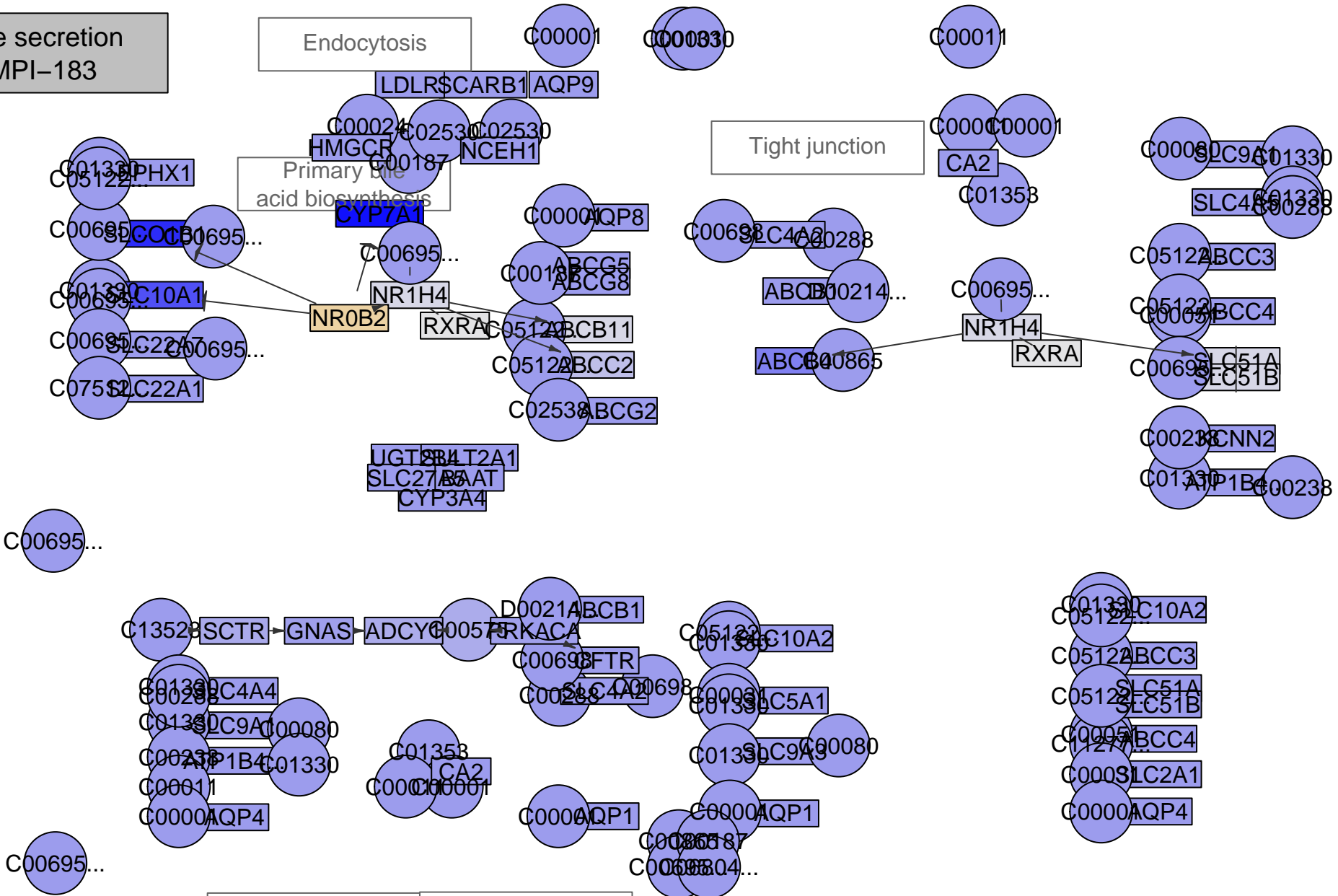
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-184

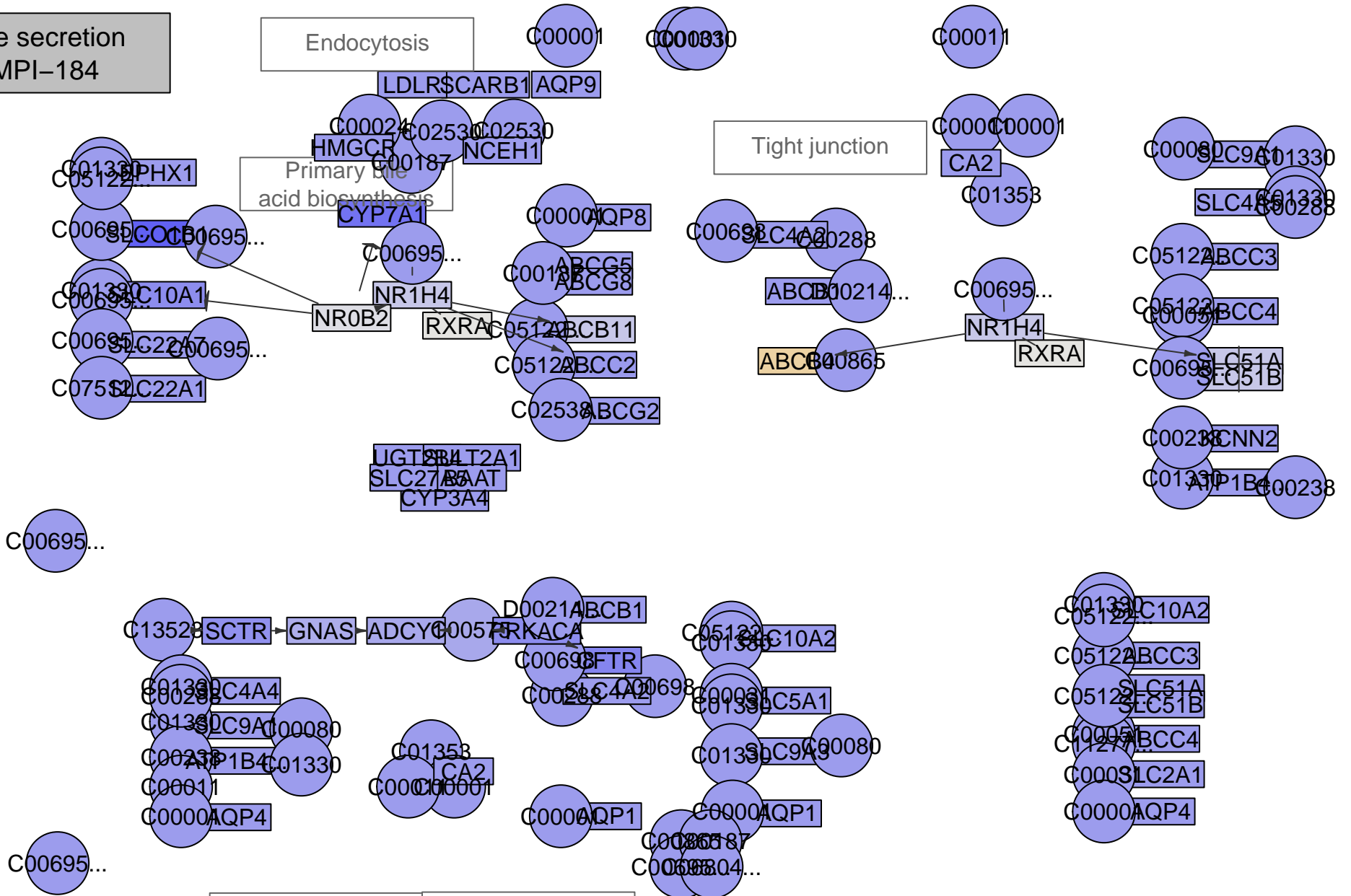
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-186

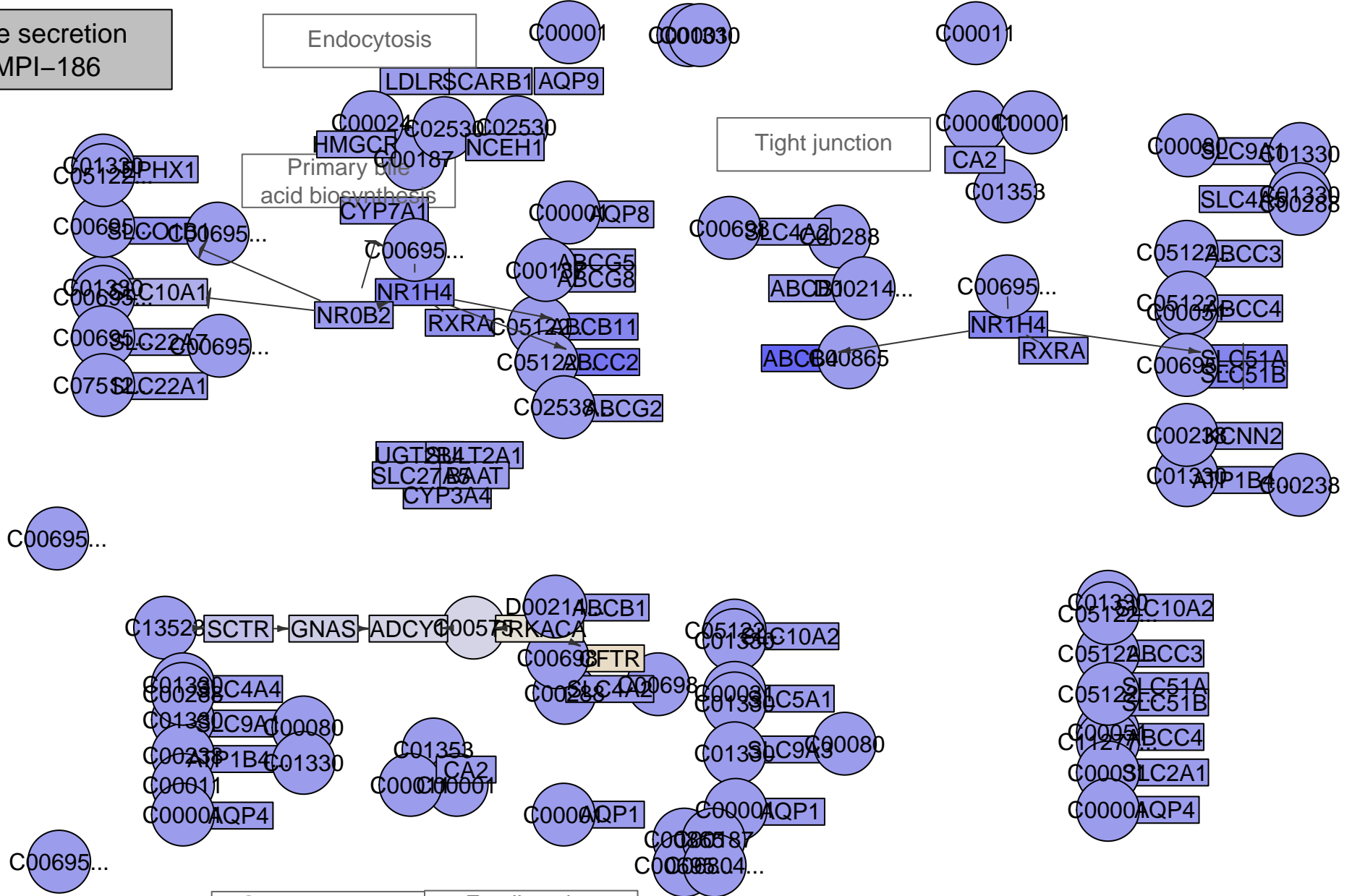
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-189

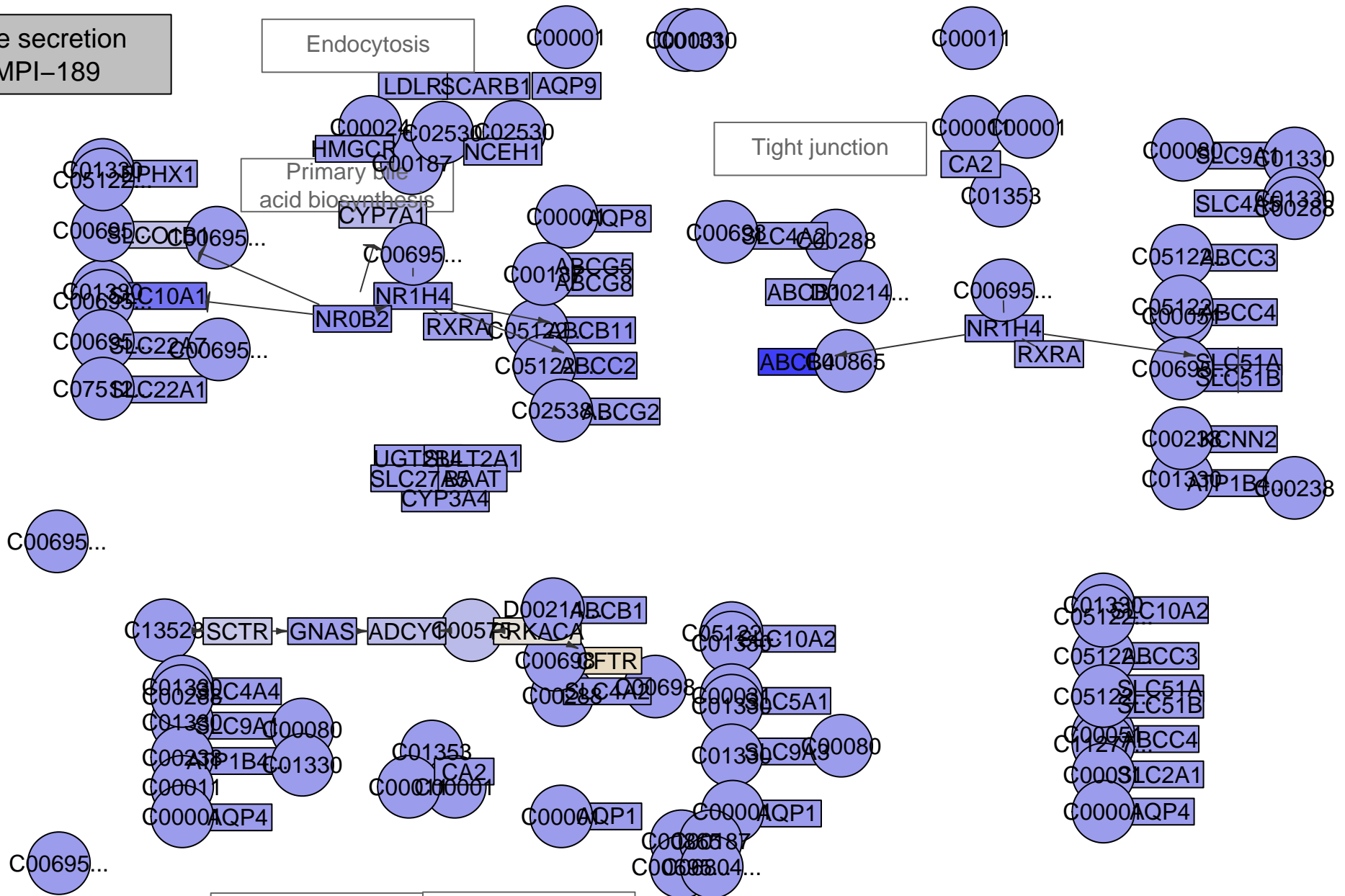
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-191

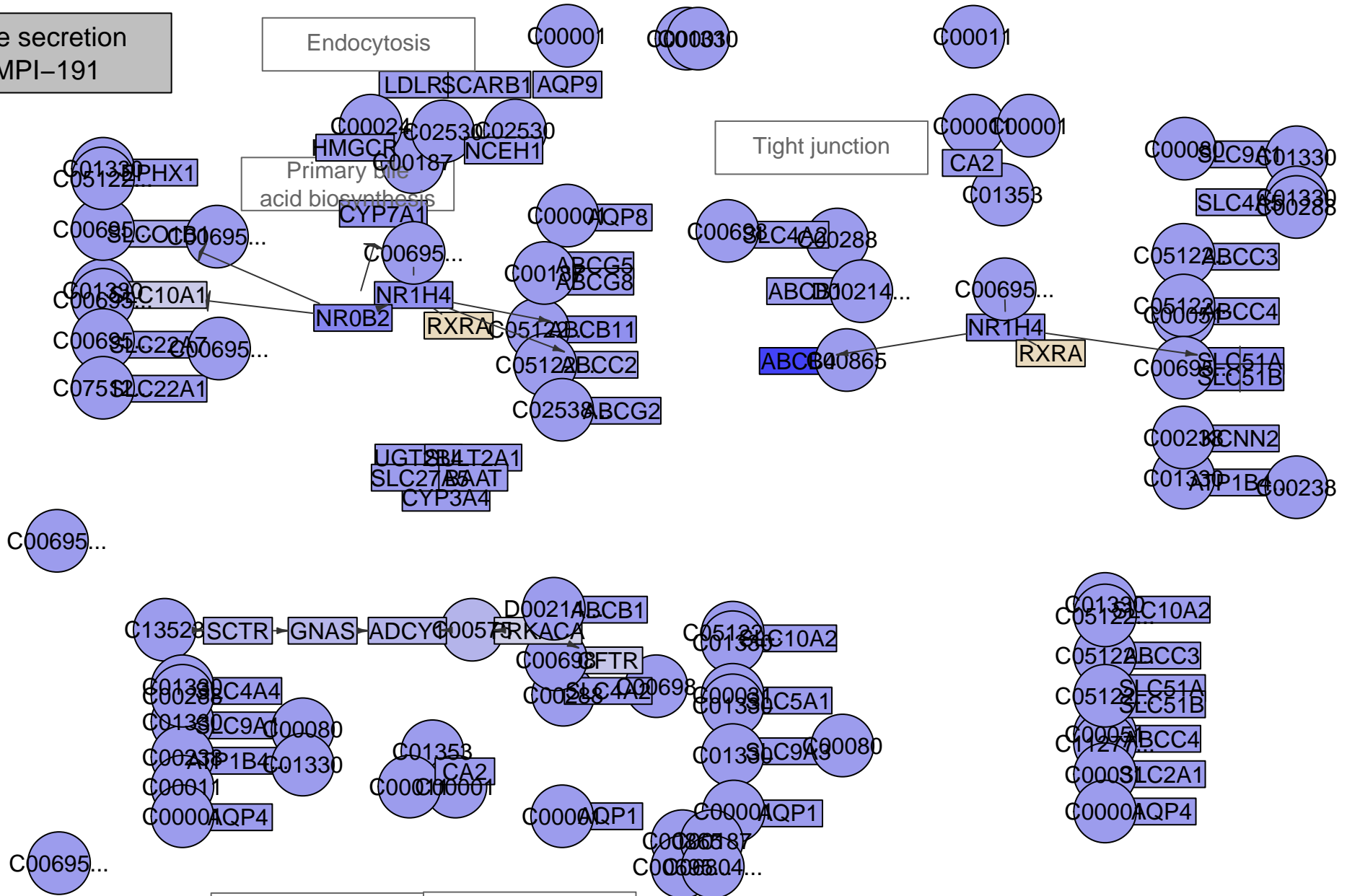
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-192

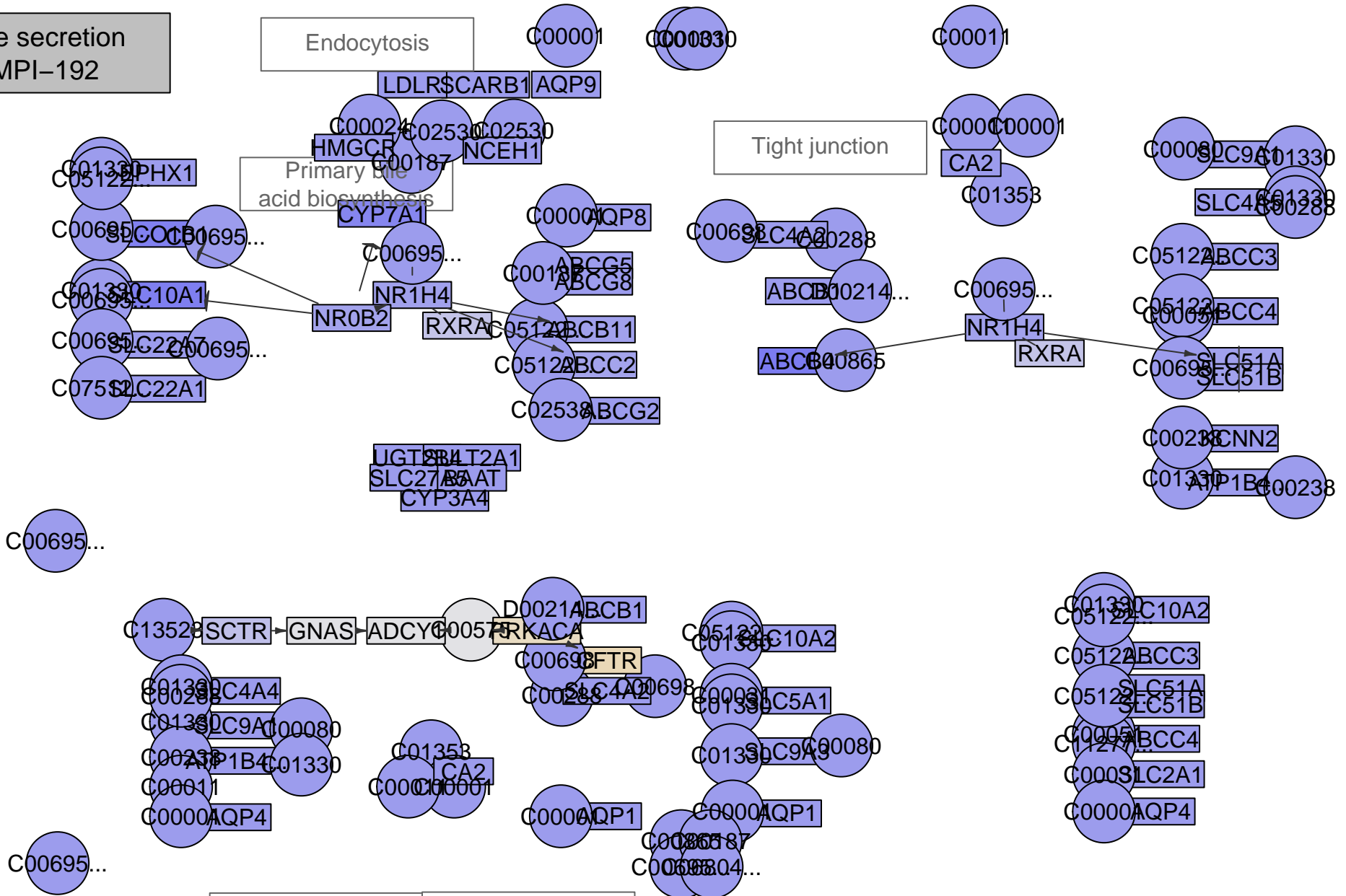
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-194

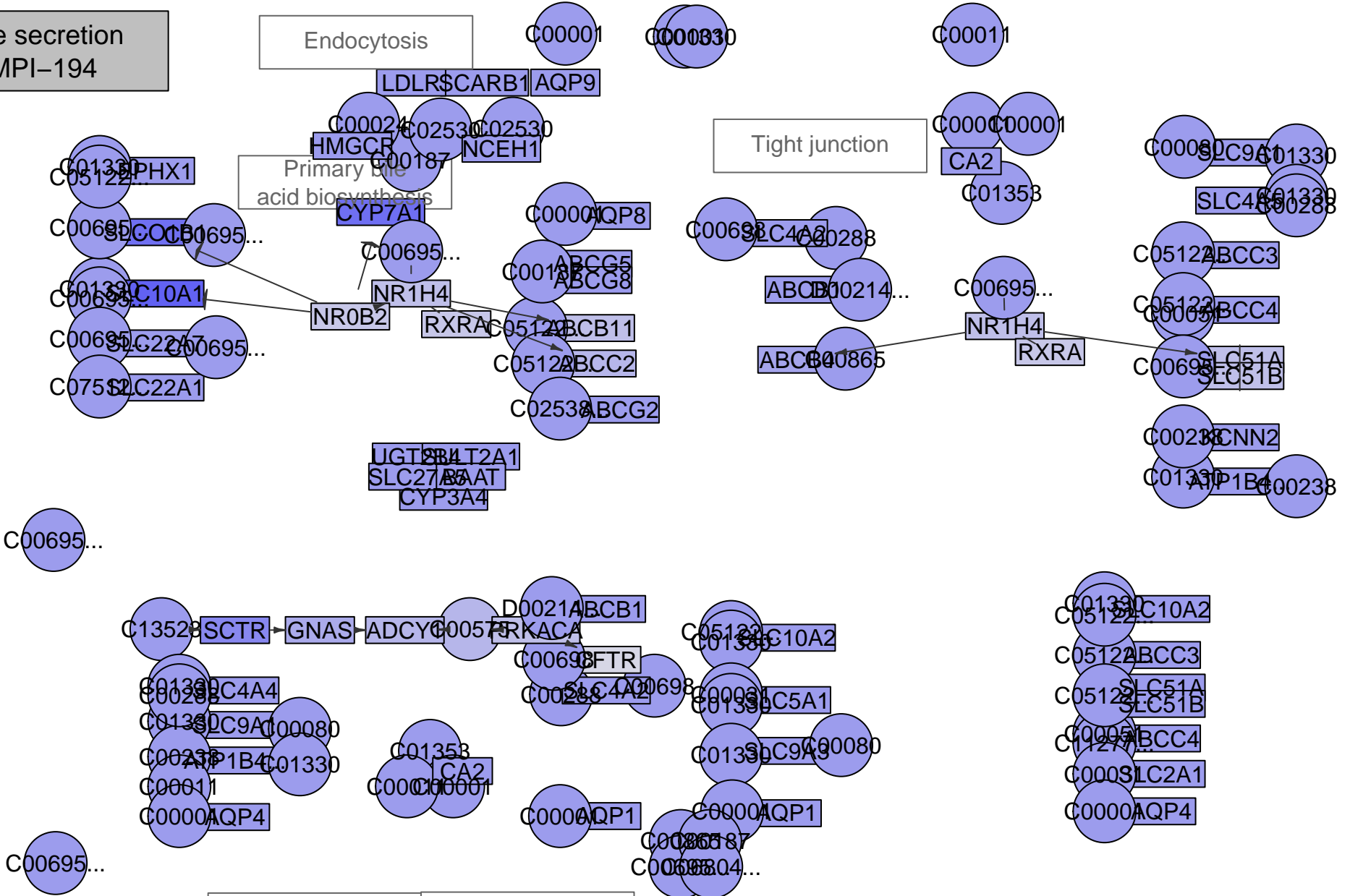
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-195

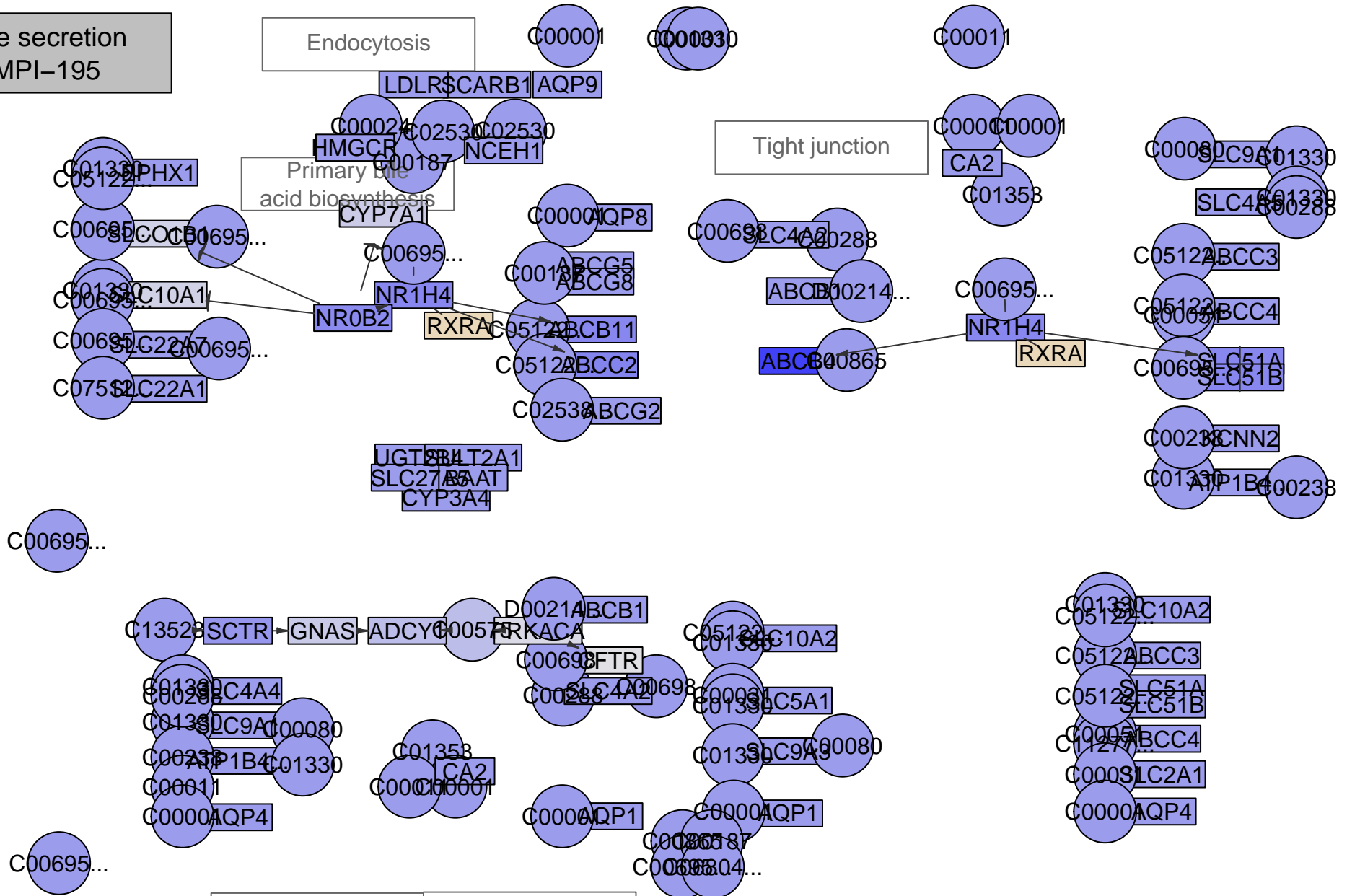
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-196

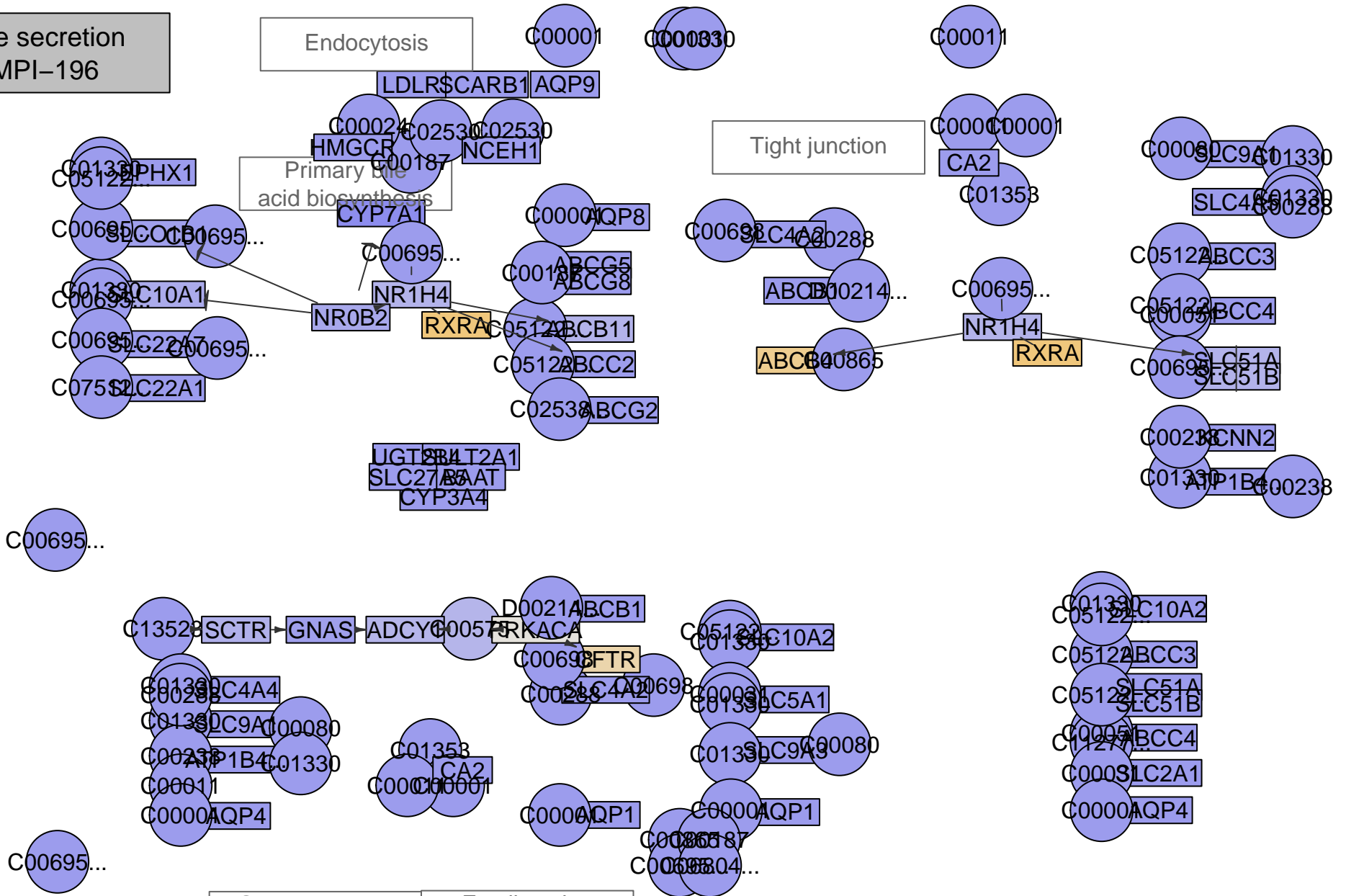
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-200

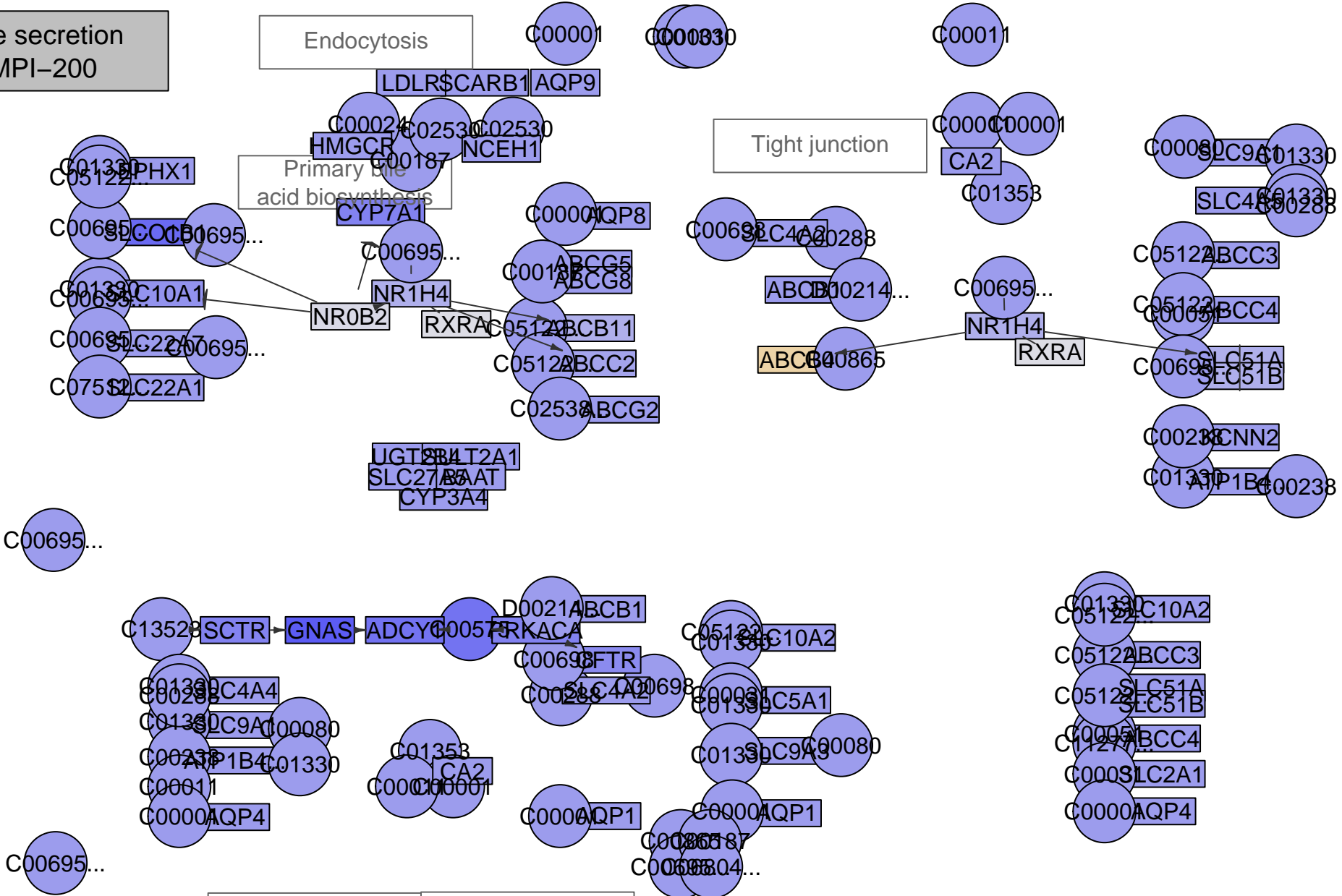
Endocytosis

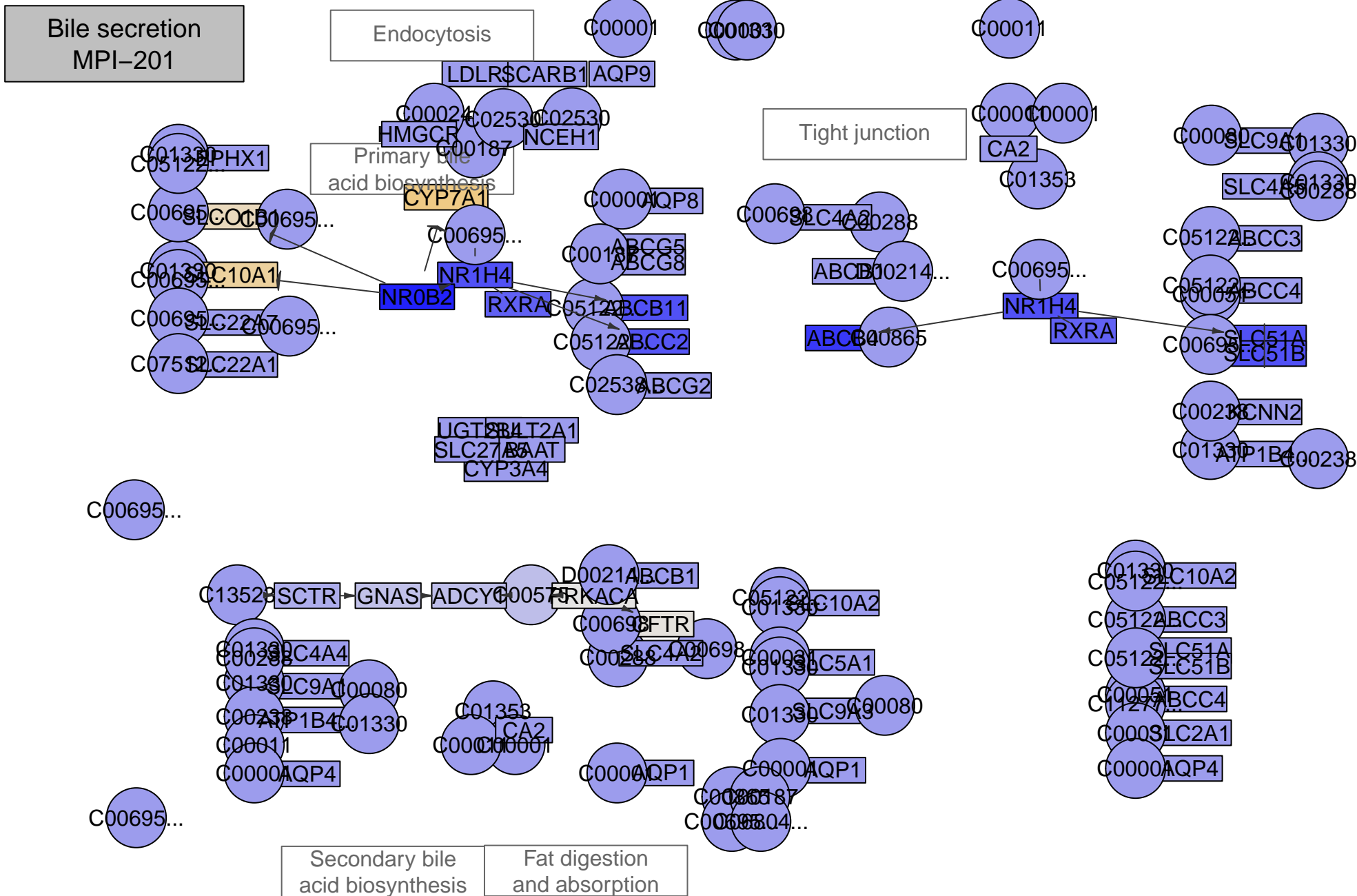
Tight junction

Primary bile acid biosynthesis

Secondary bile acid biosynthesis

Fat digestion and absorption





Bile secretion
MPI-202

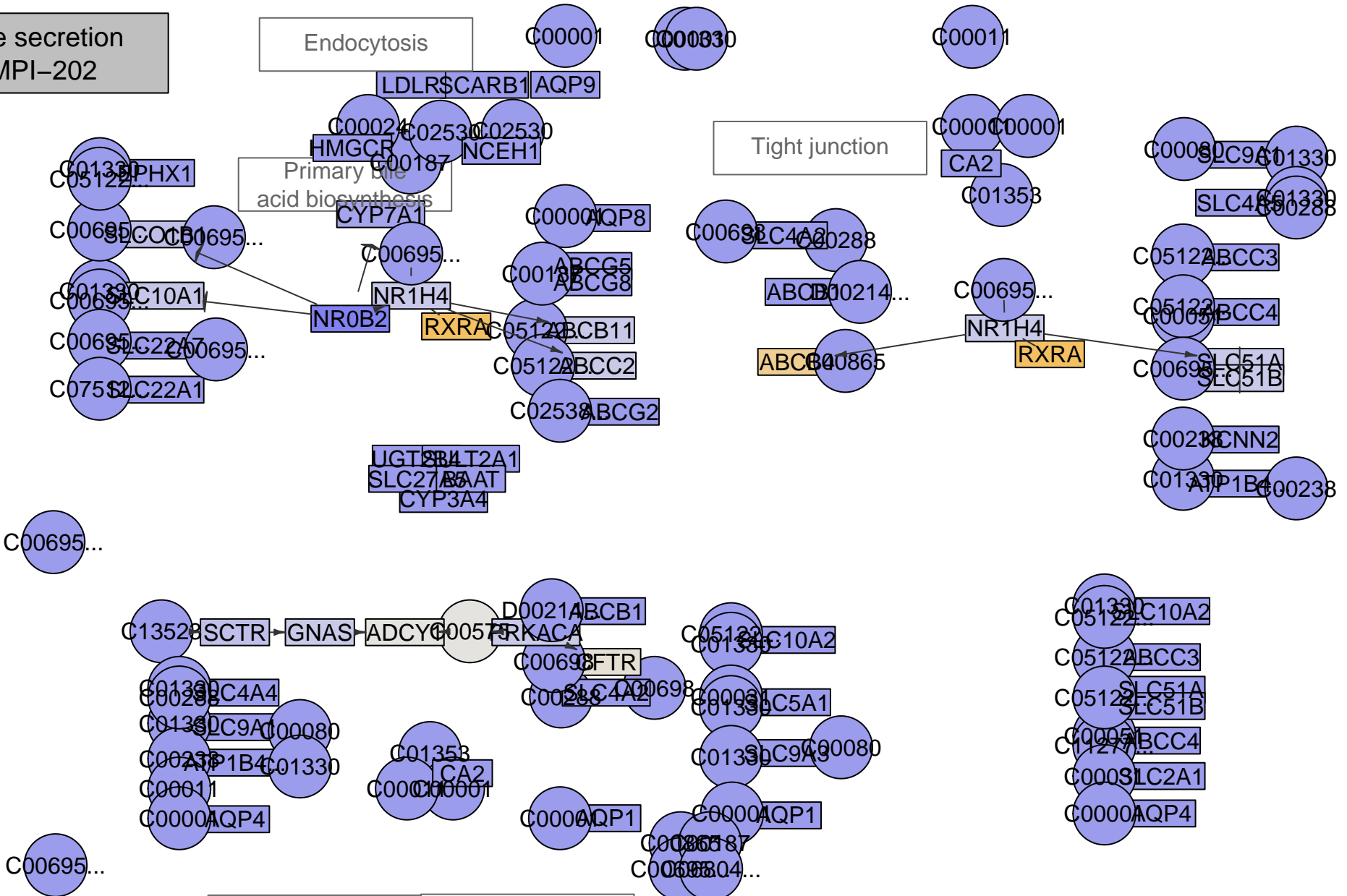
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-206

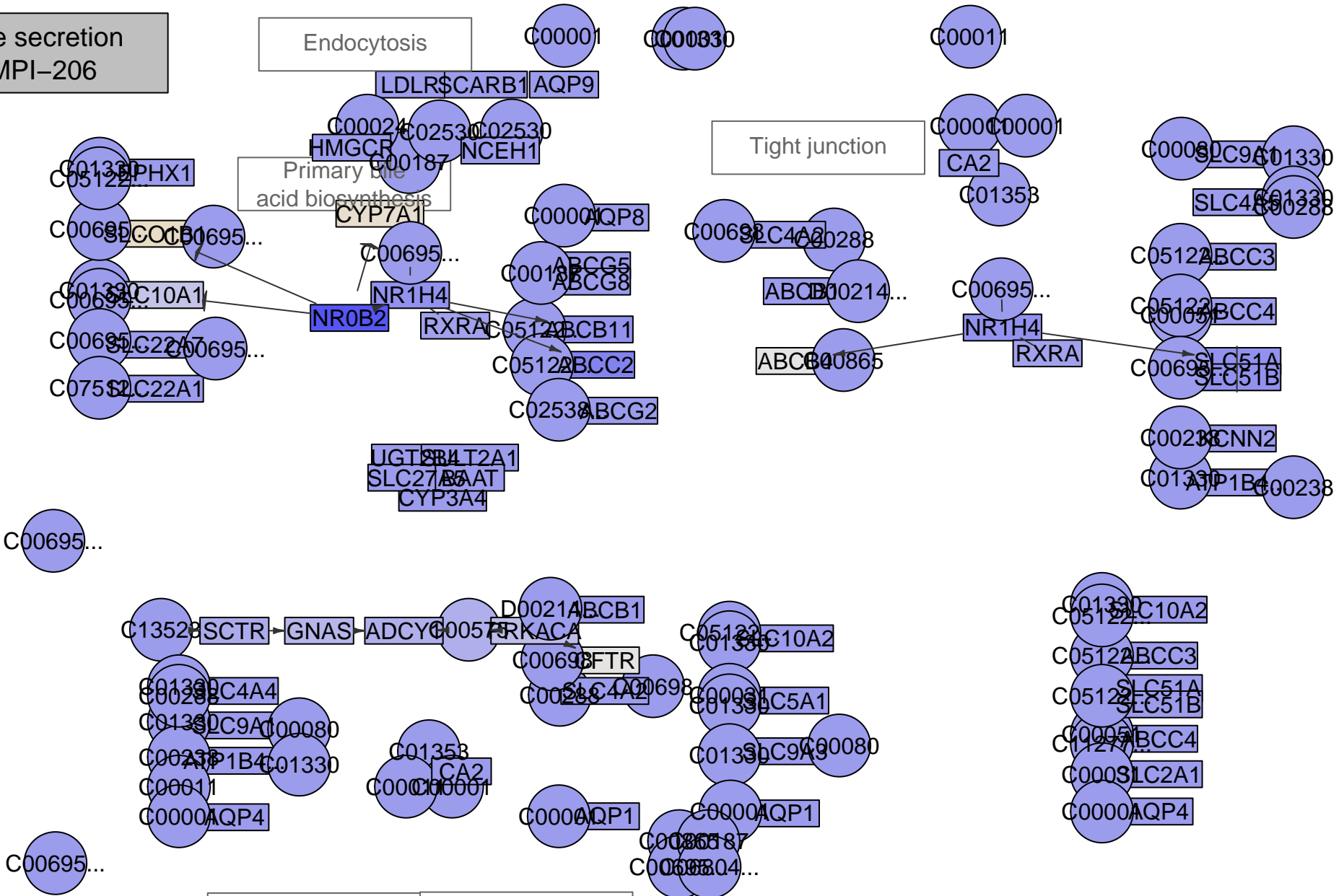
Endocytosis

Tight junction

Primary bile acid biosynthesis

Secondary bile acid biosynthesis

Fat digestion and absorption



Bile secretion
MPI-207

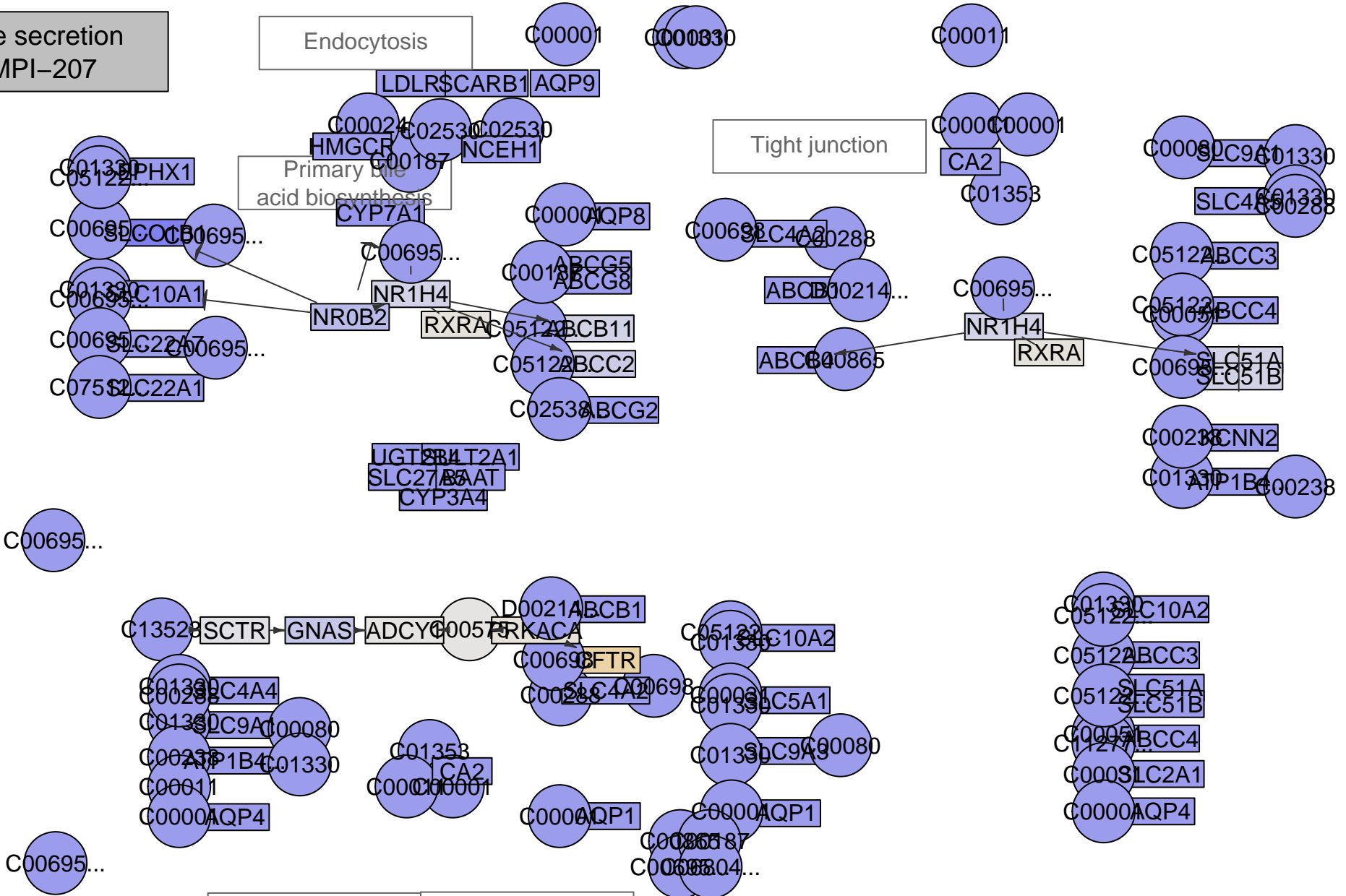
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-208

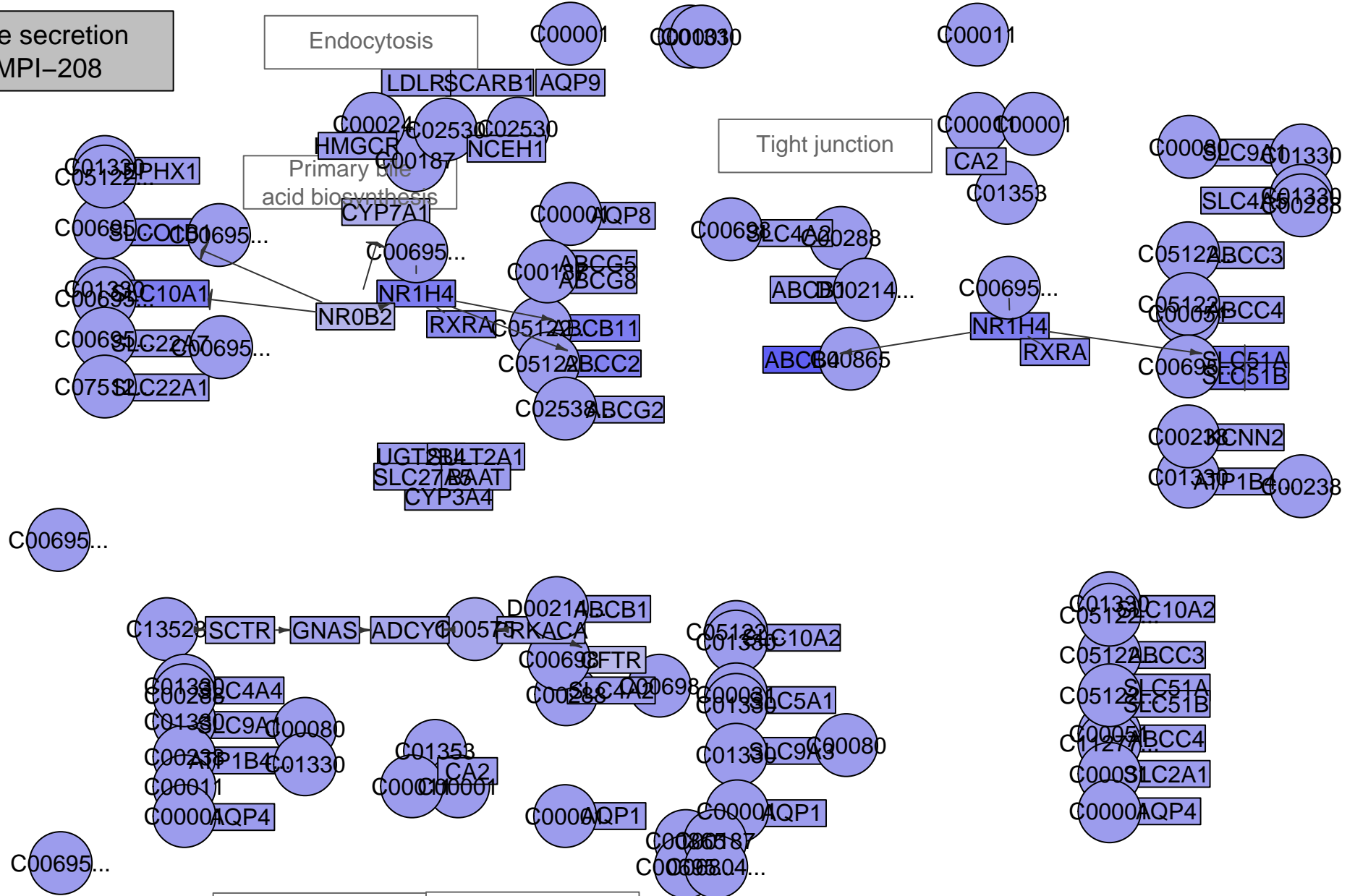
Endocytosis

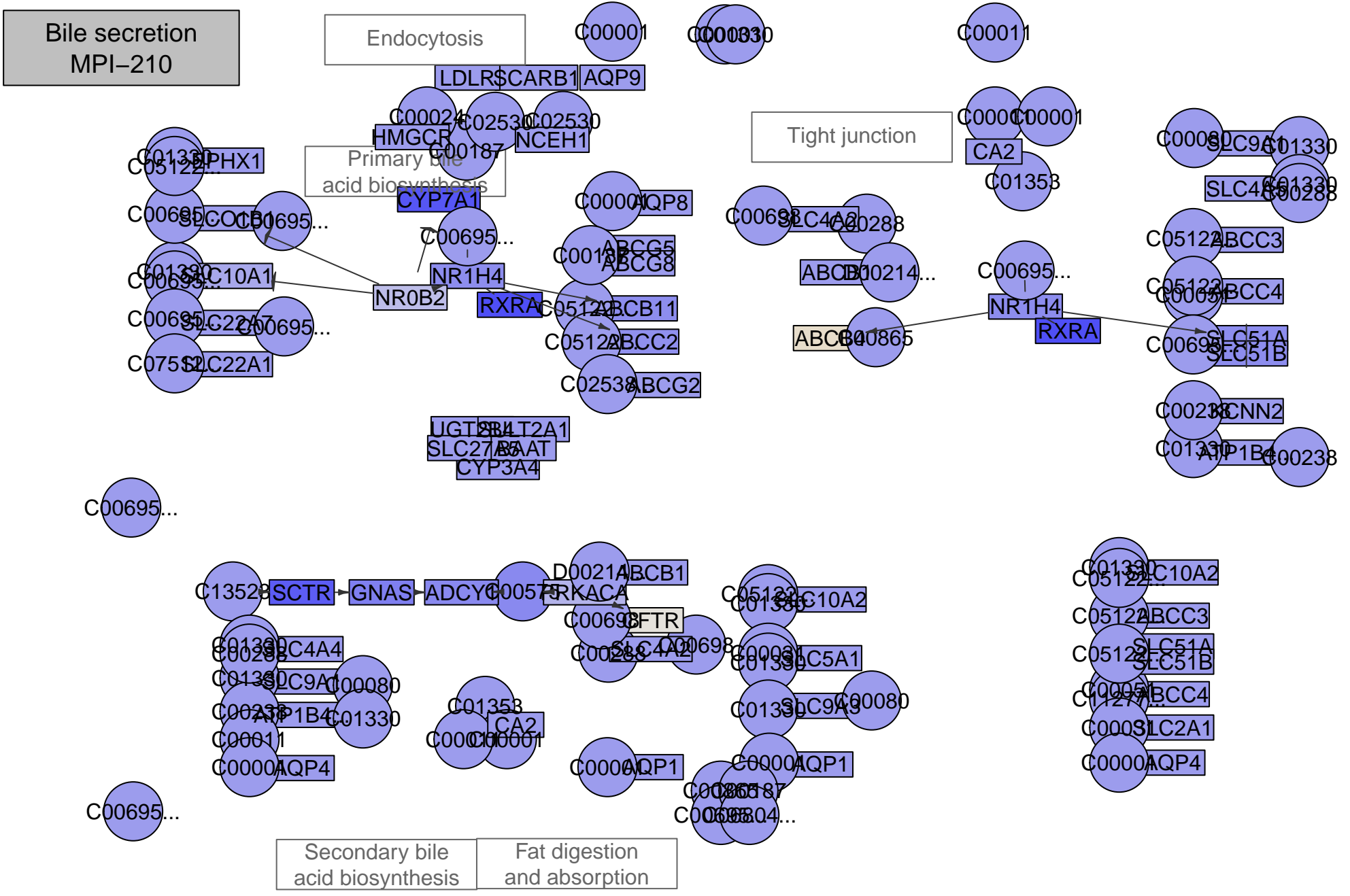
Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption





Bile secretion
MPI-213

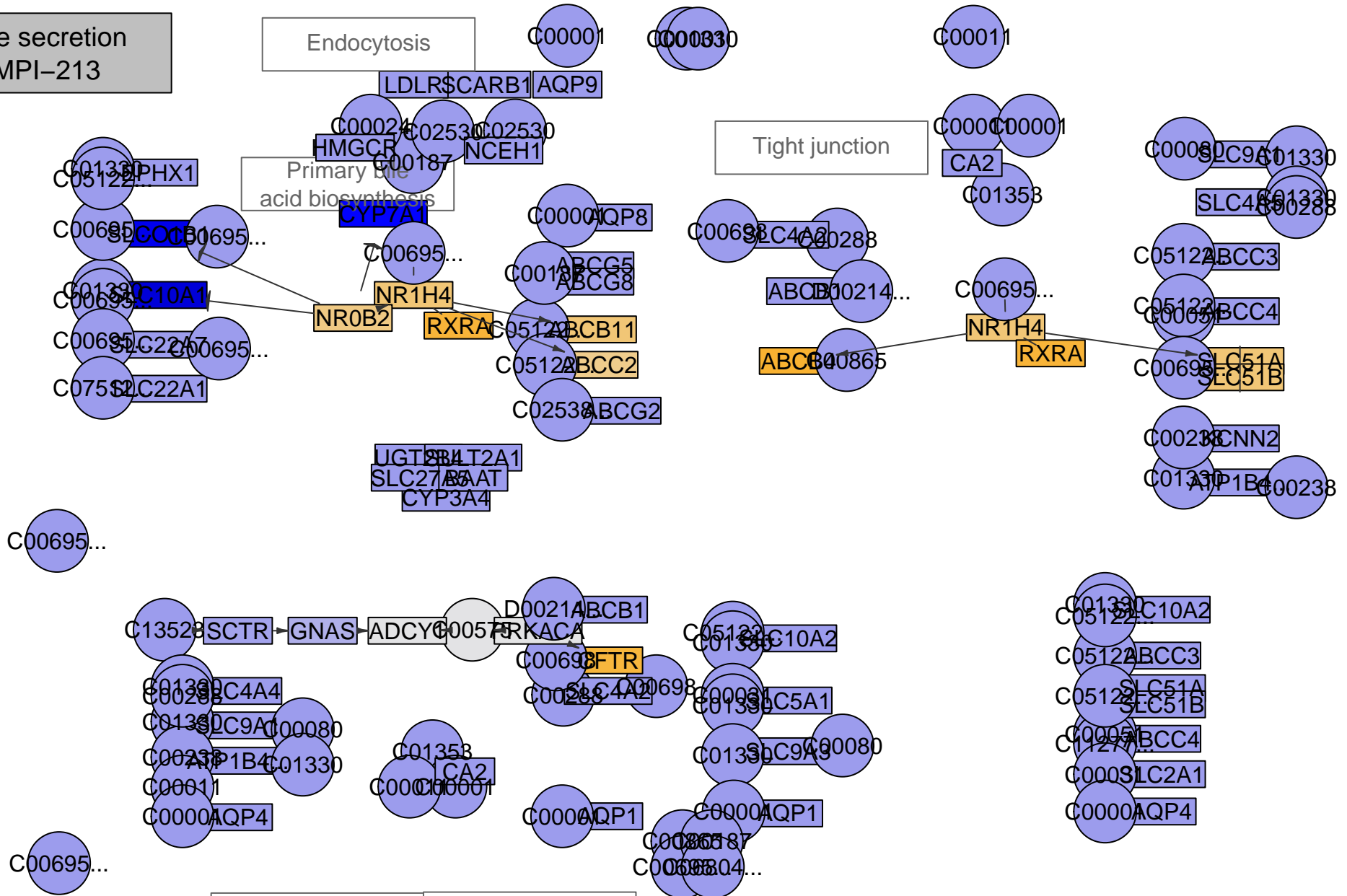
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-215

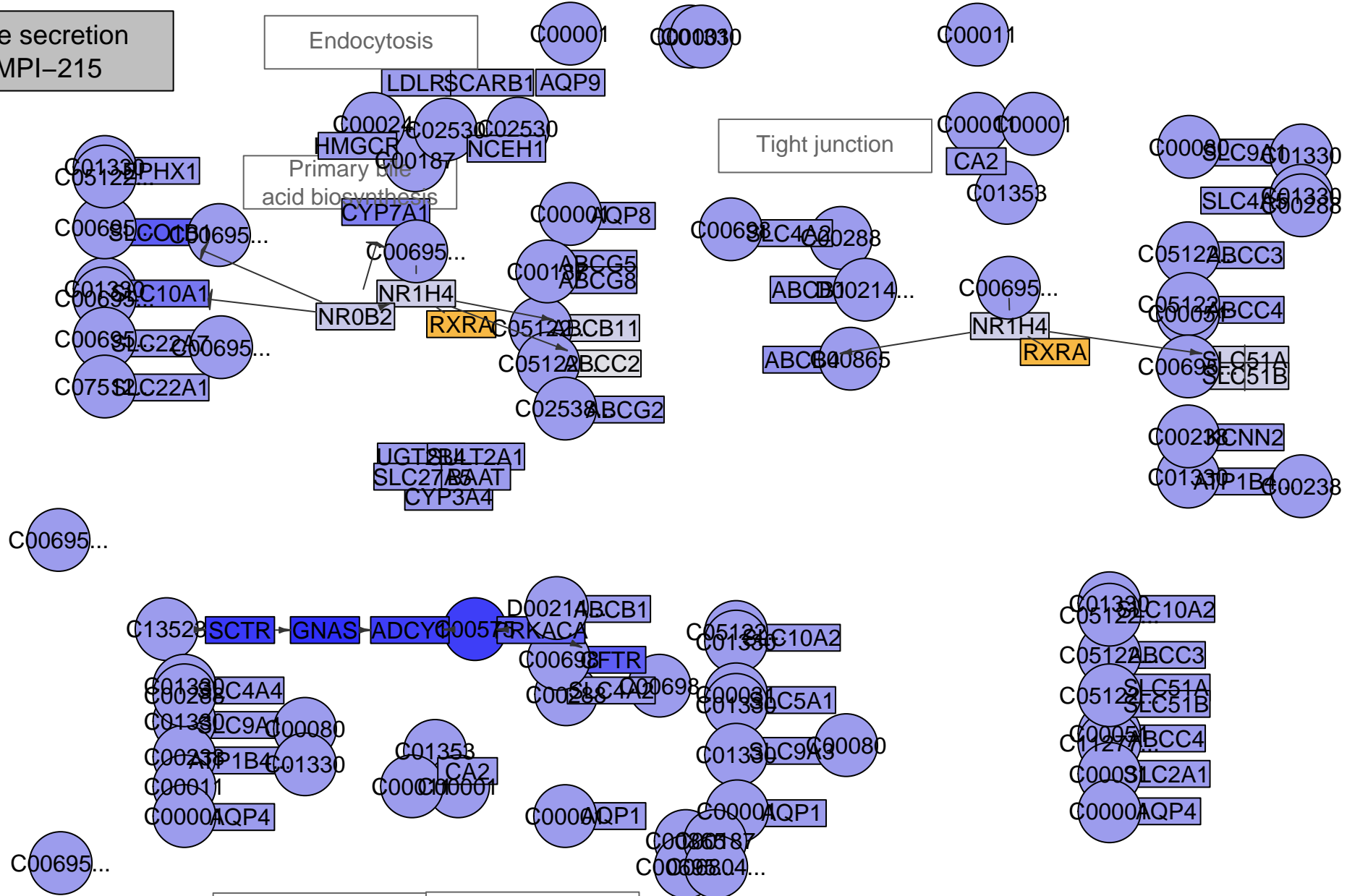
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-226

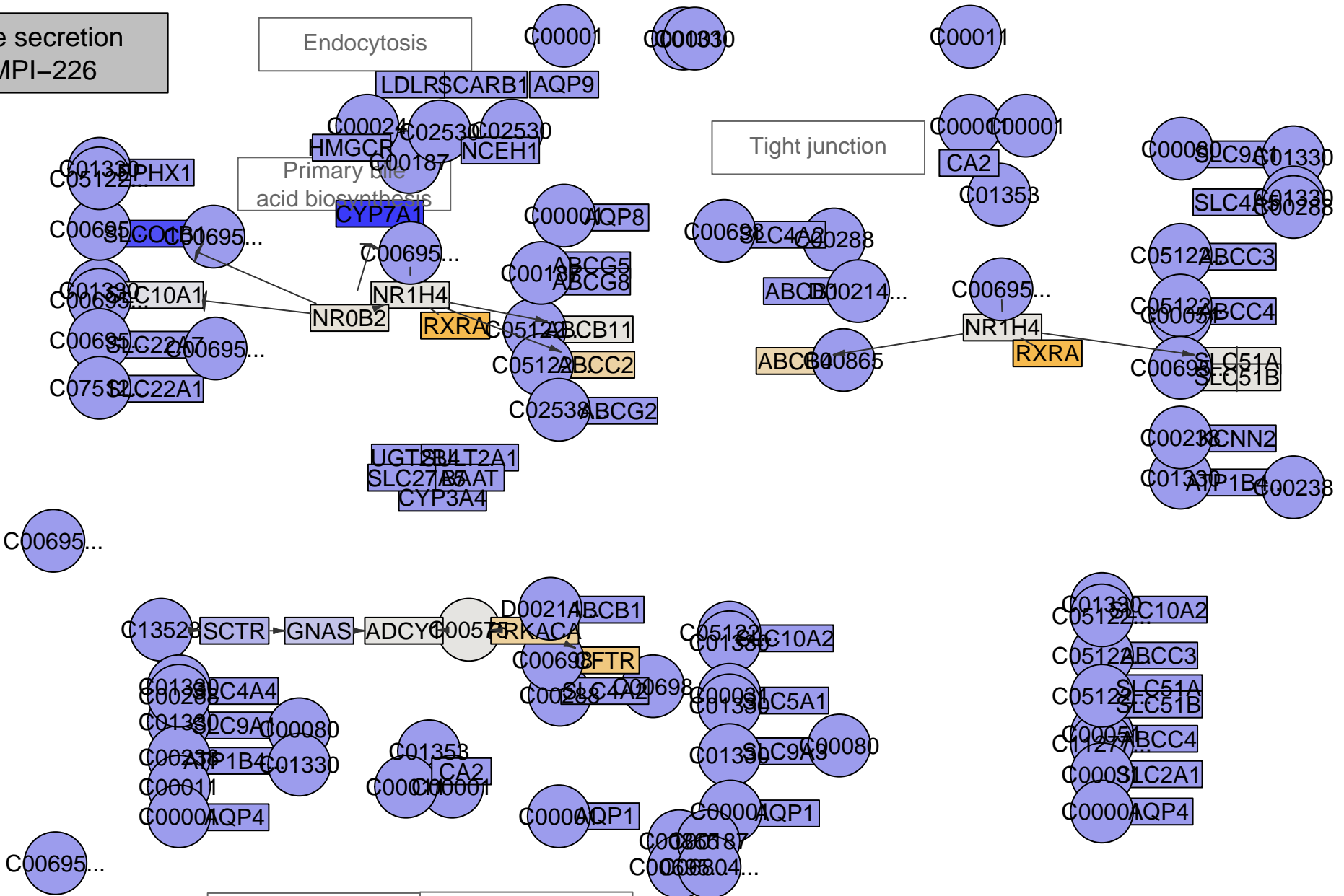
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-229

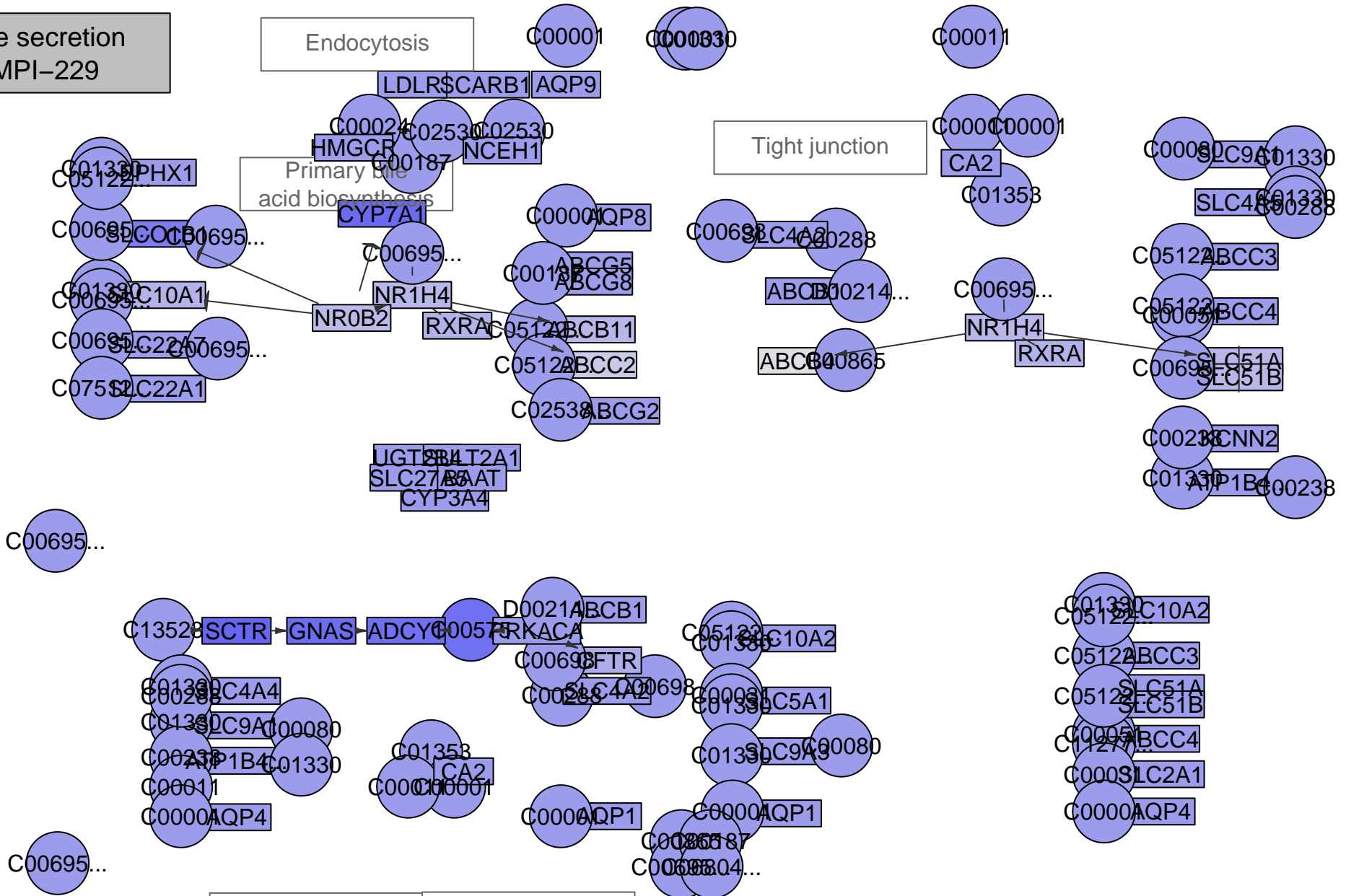
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-232

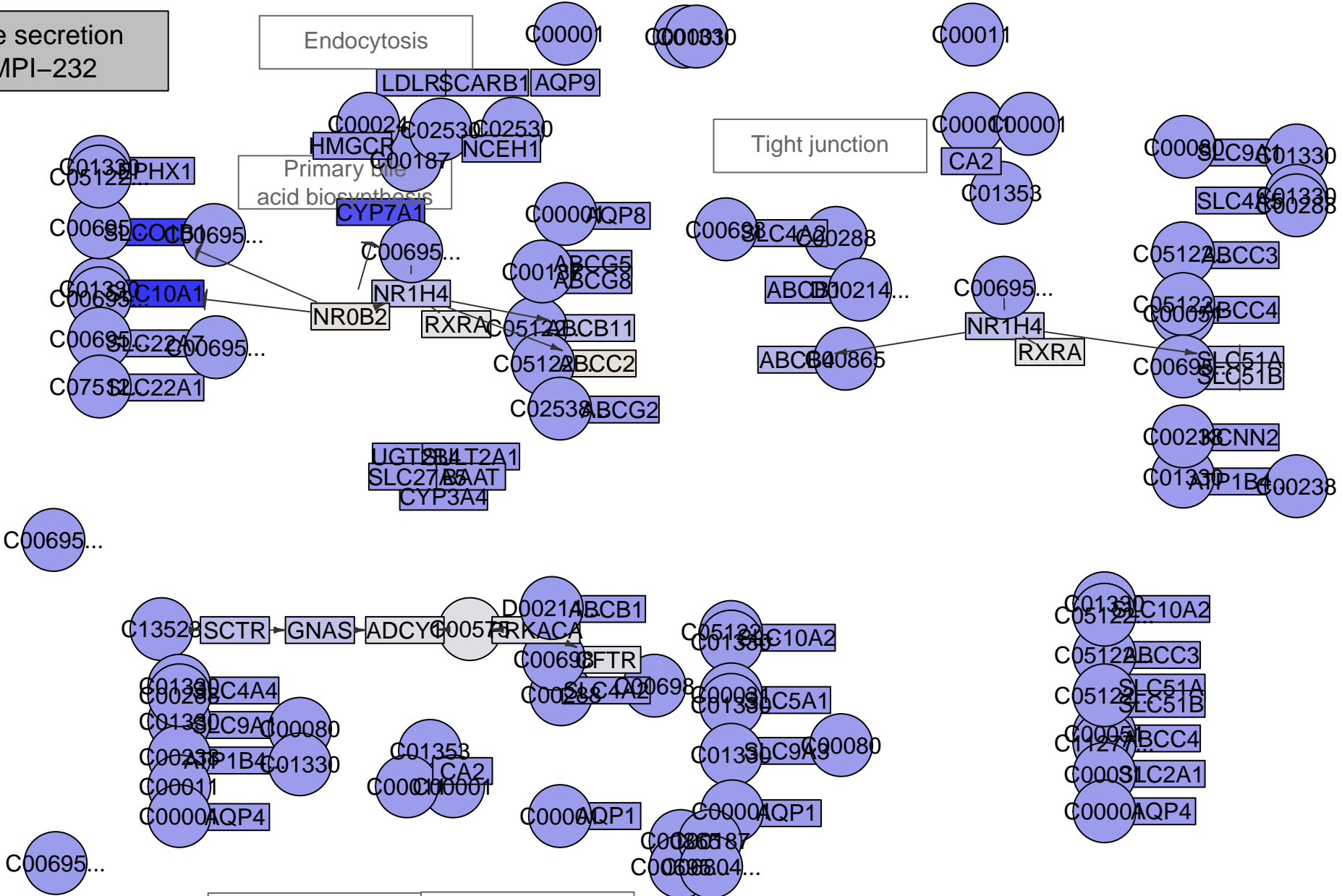
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-233

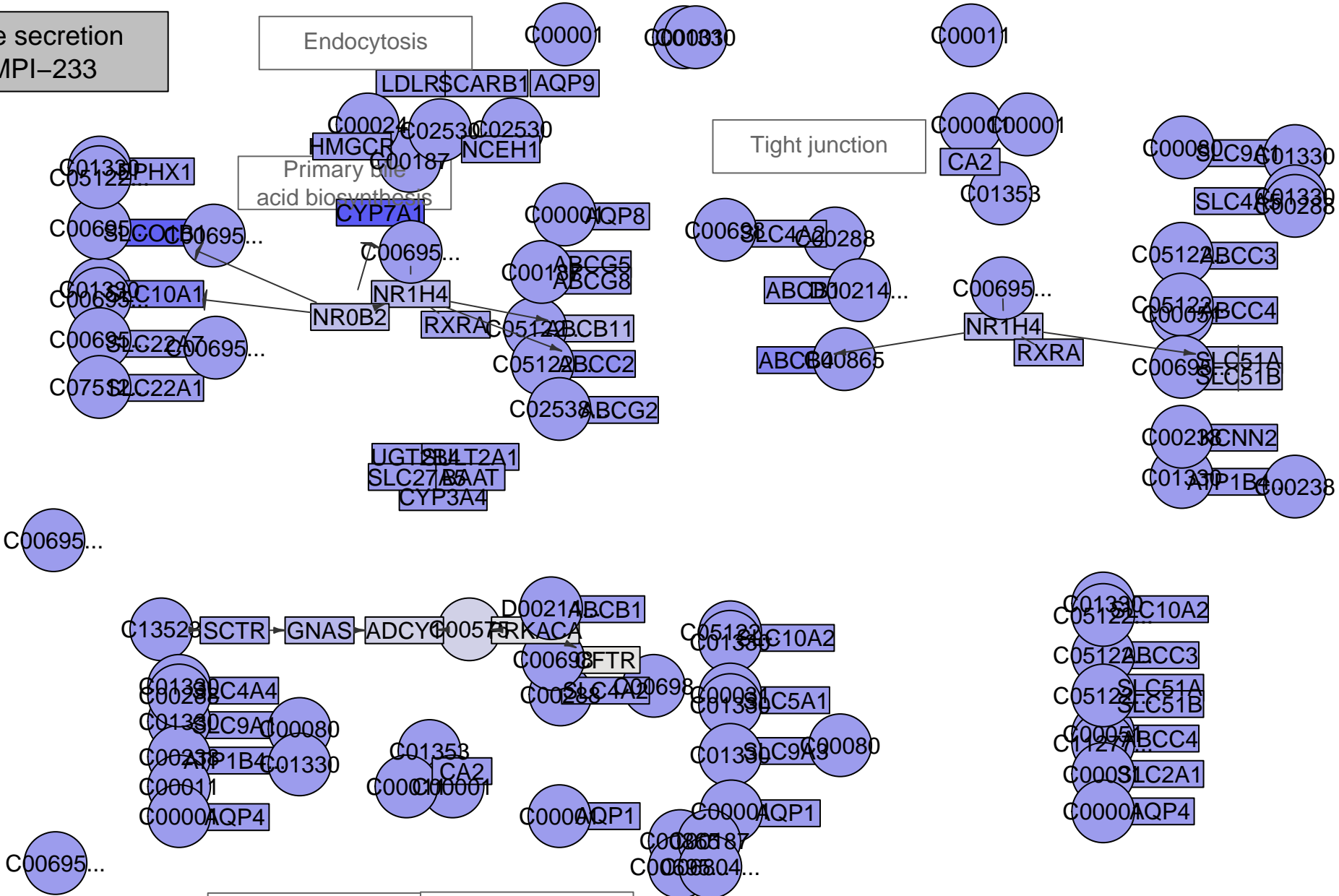
Endocytosis

Primary bile
acid biosynthesis

Tight junction

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-235

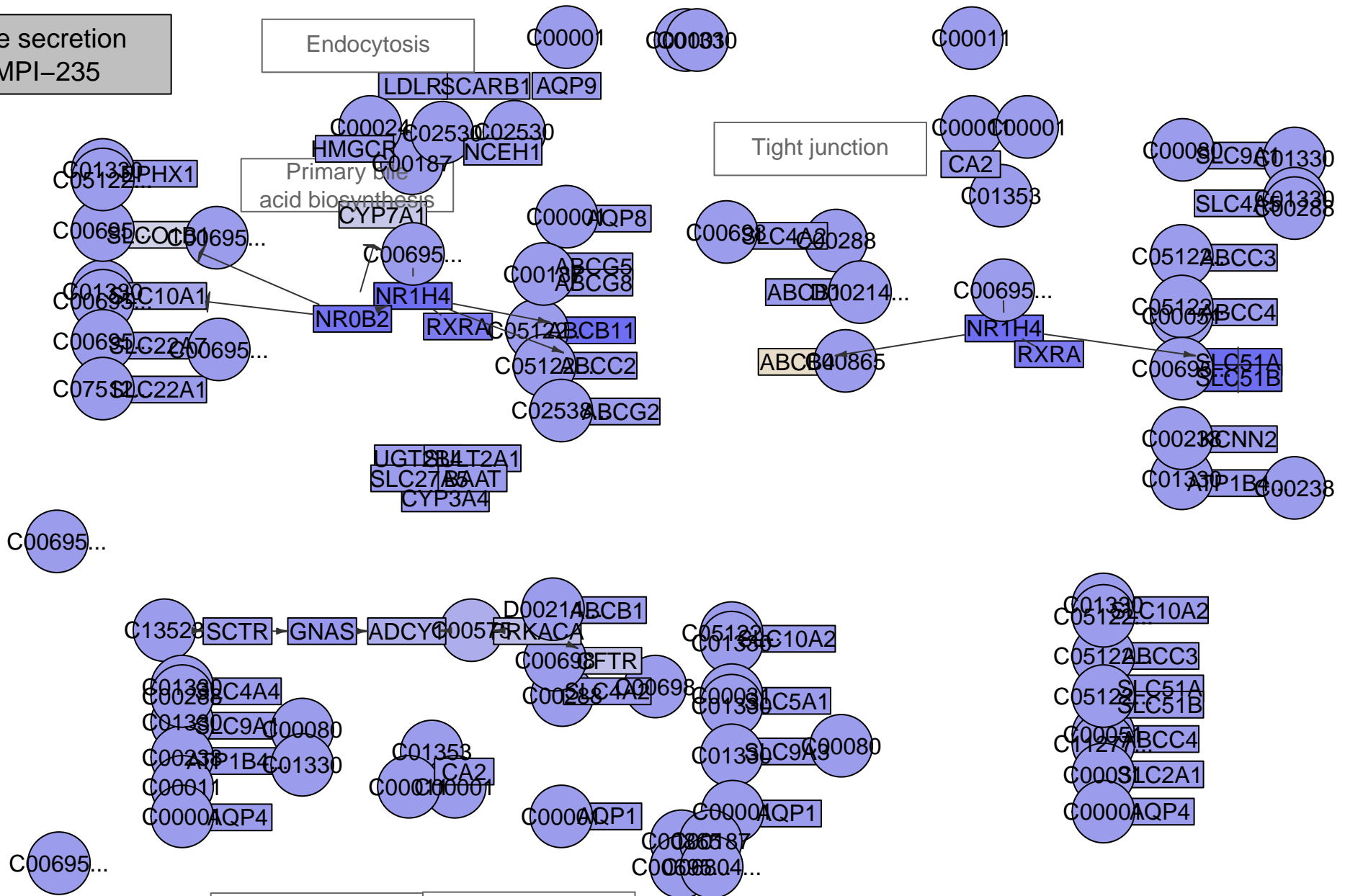
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-236

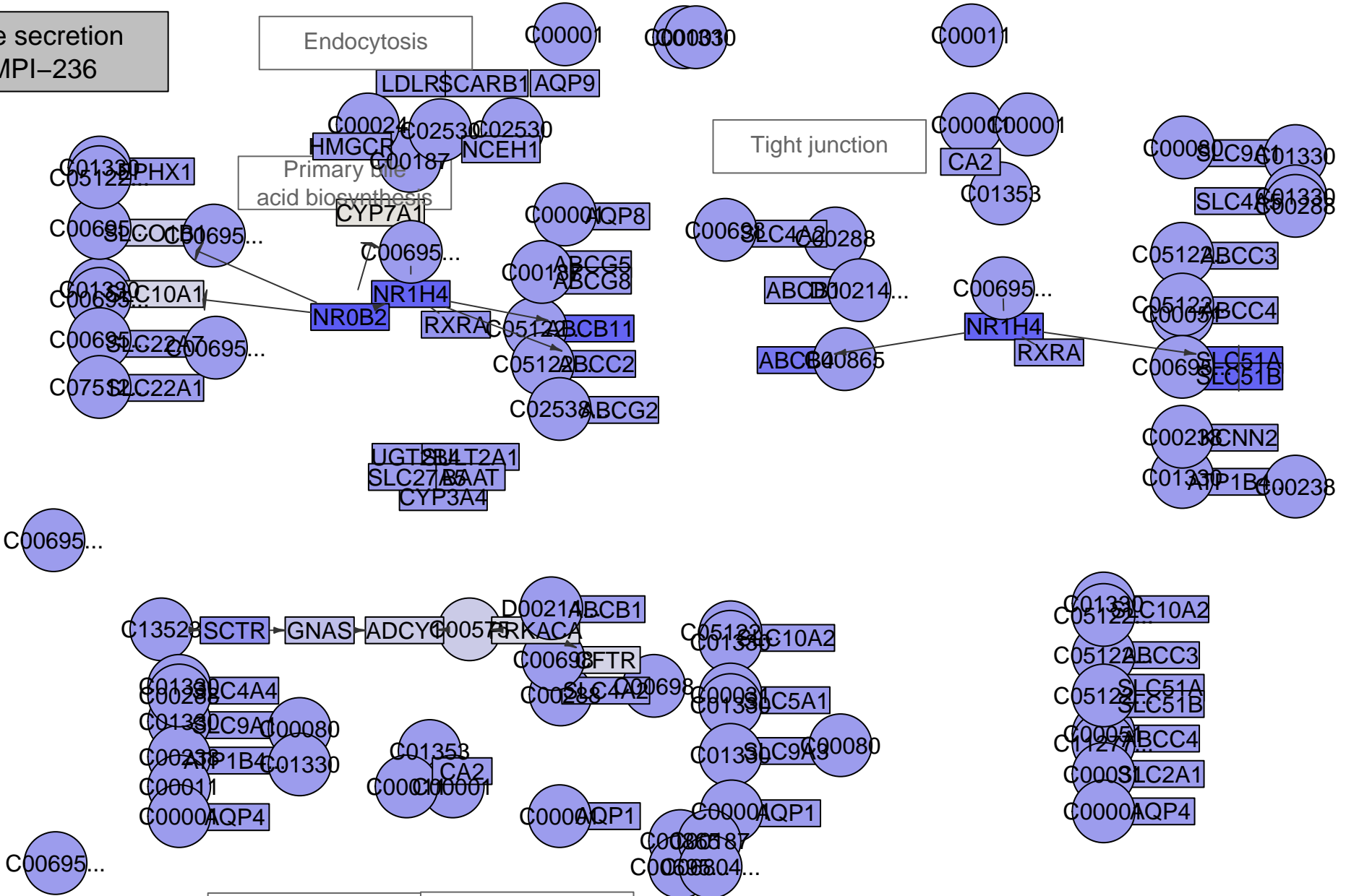
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



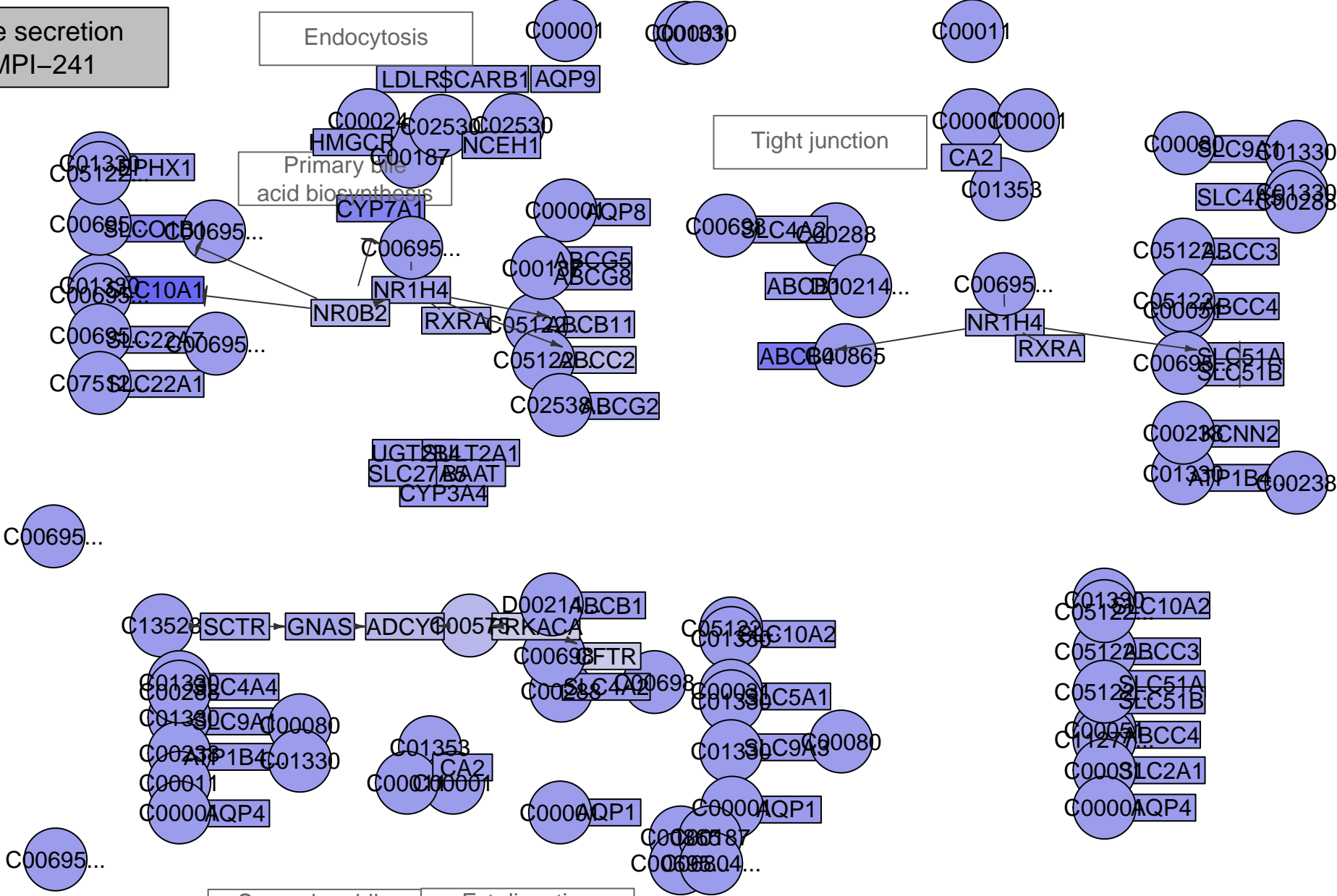
Bile secretion
MPI-241

Endocytosis

Tight junction

Primary bile acid biosynthesis

Secondary bile acid biosynthesis Fat digestion and absorption



Bile secretion
MPI-247

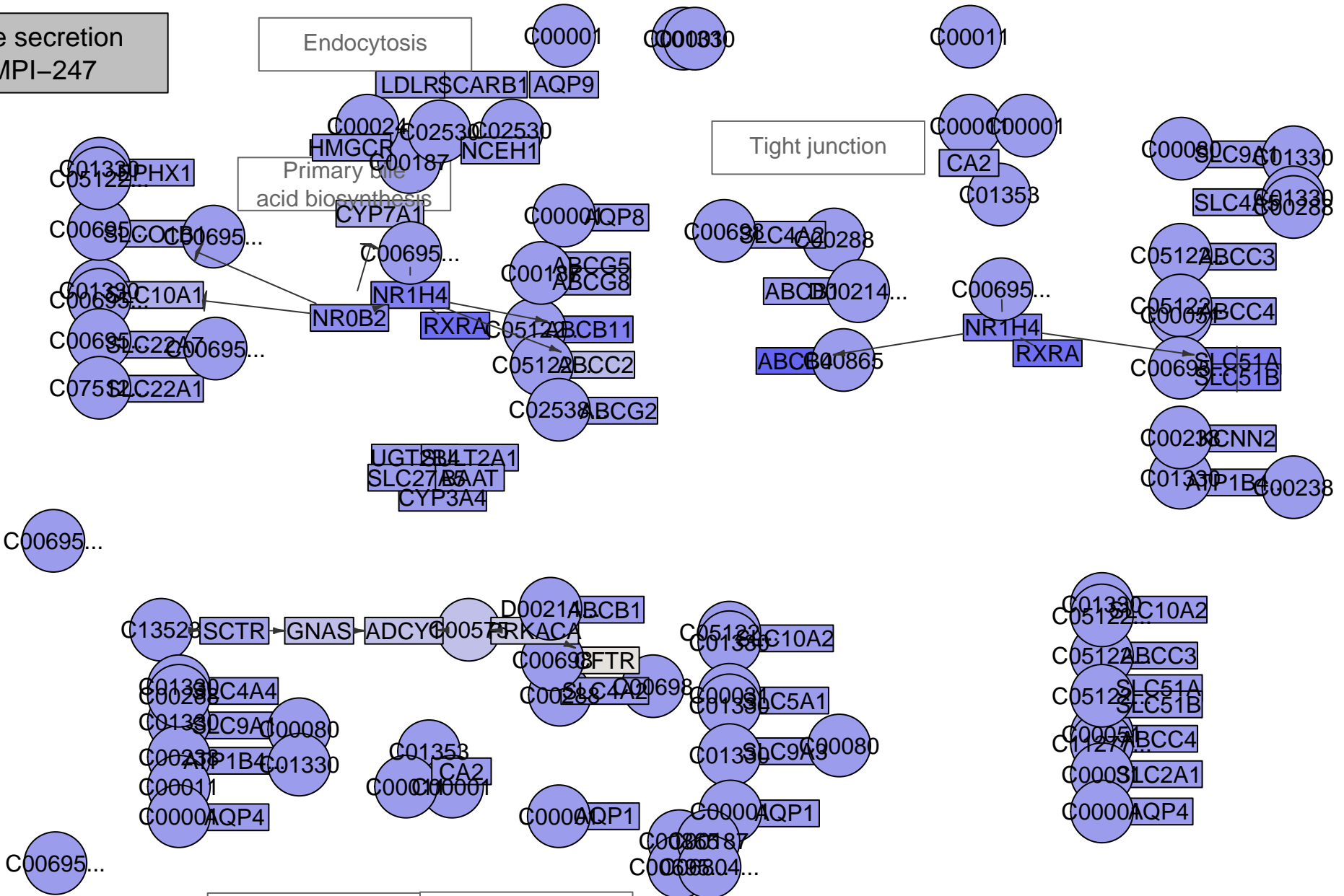
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-251

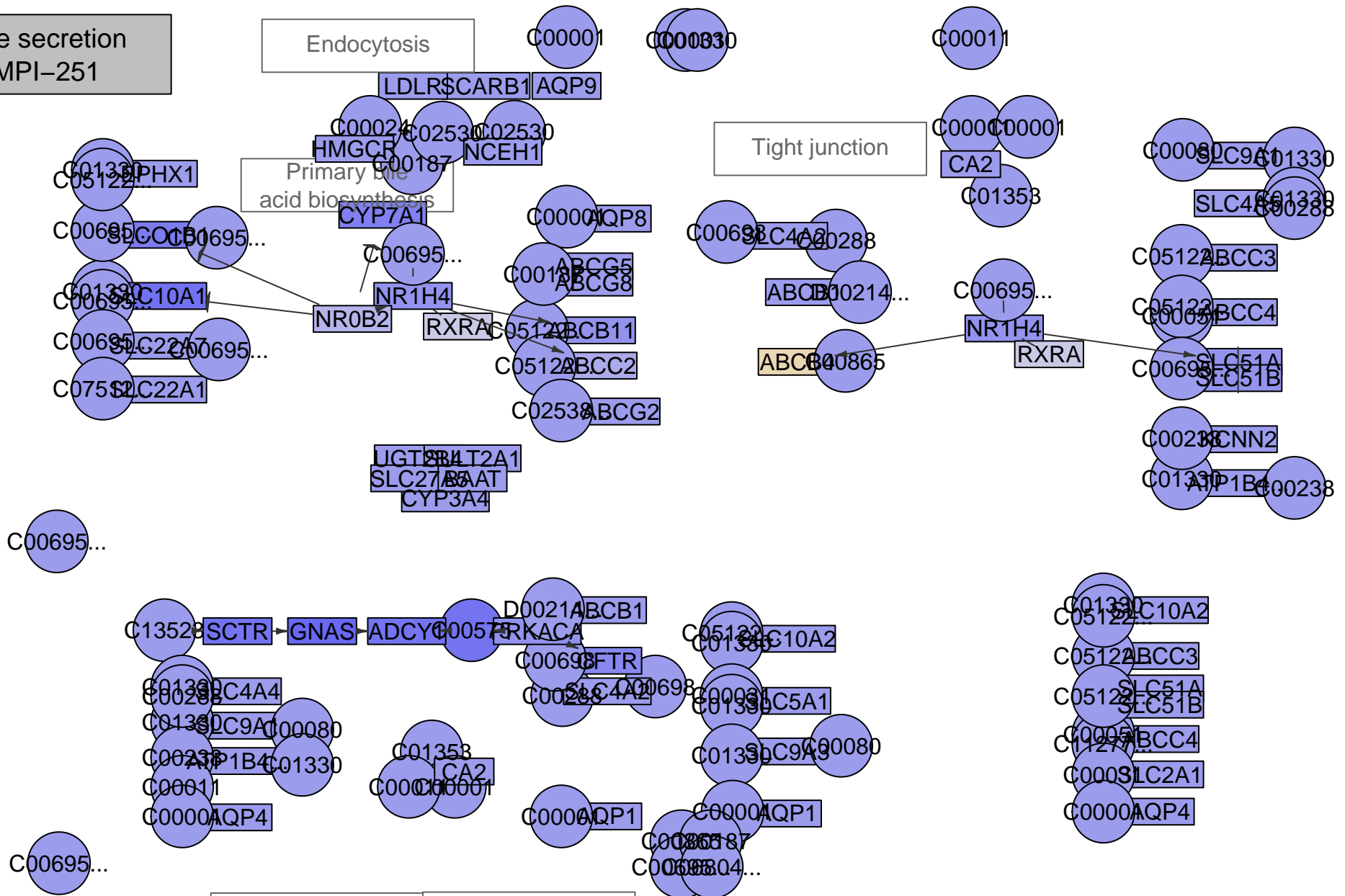
Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption



Bile secretion
MPI-223b

Endocytosis

Tight junction

Primary bile
acid biosynthesis

Secondary bile
acid biosynthesis

Fat digestion
and absorption

