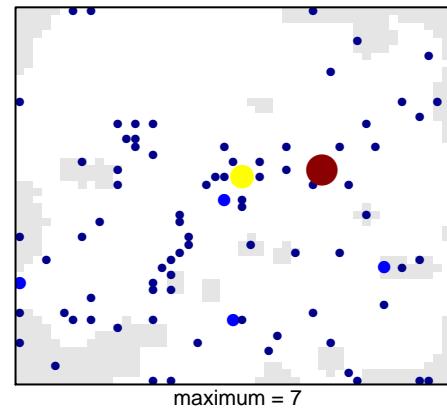
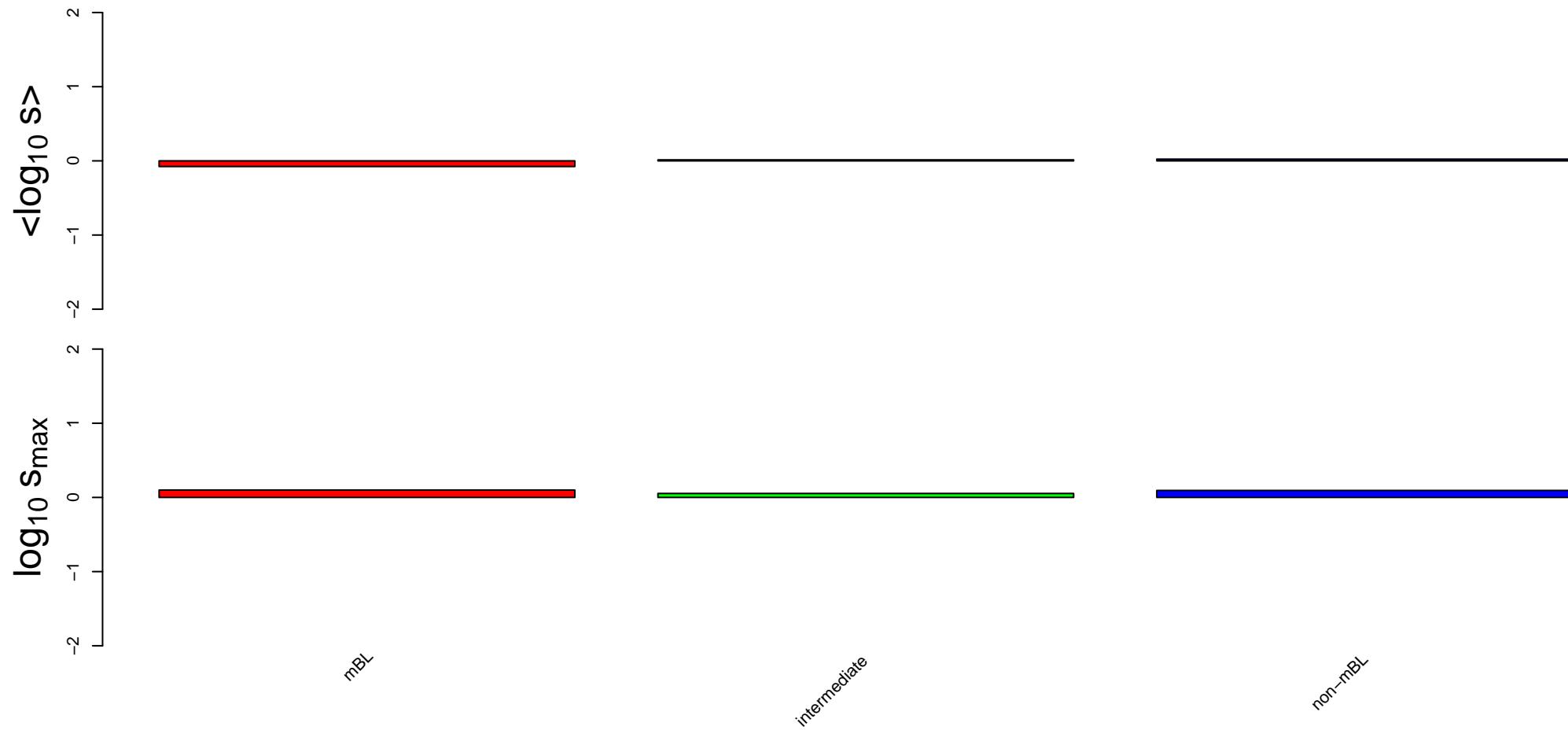
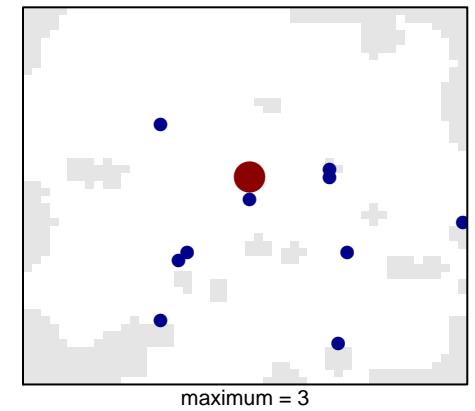


Bile secretion

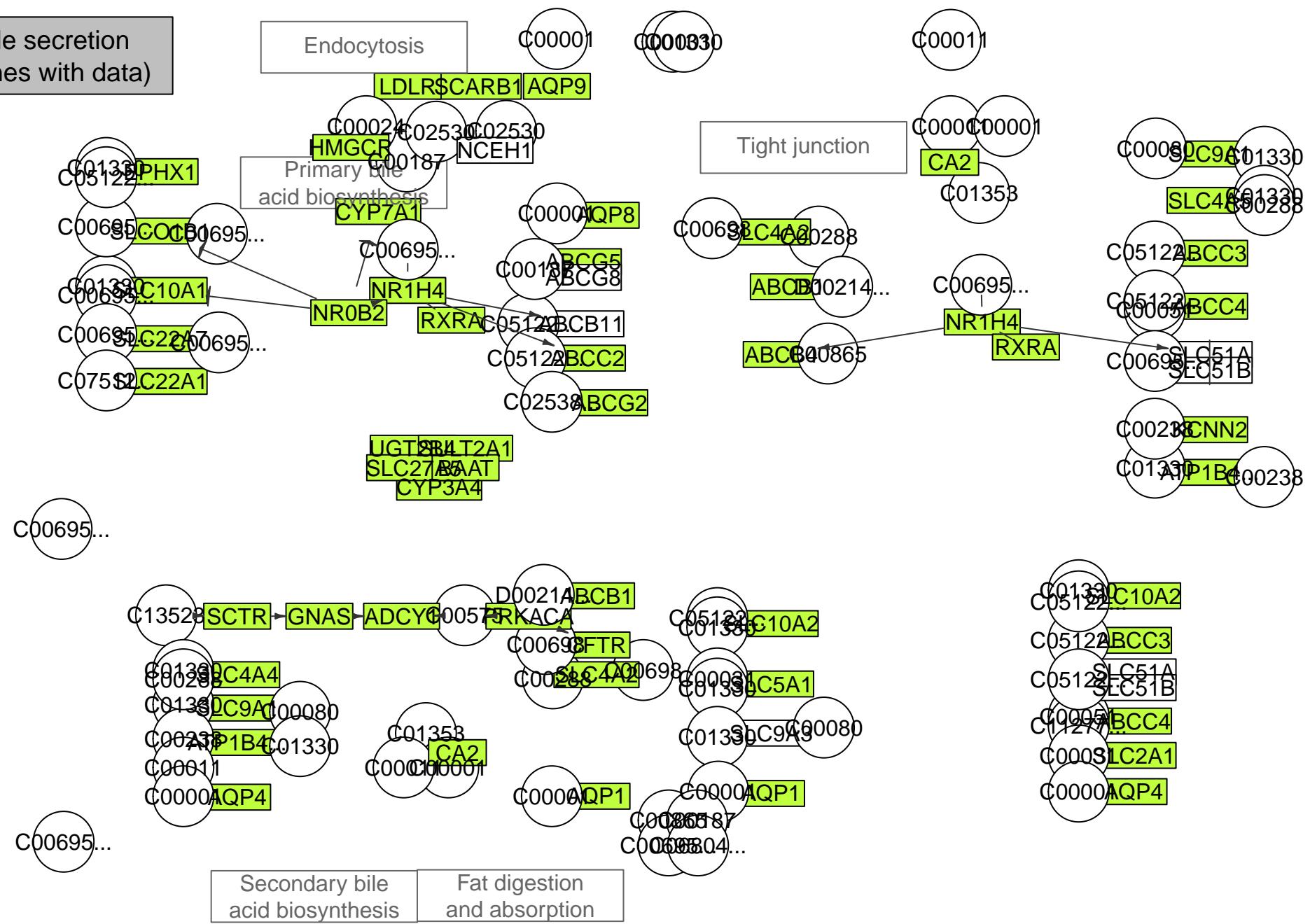
all genes

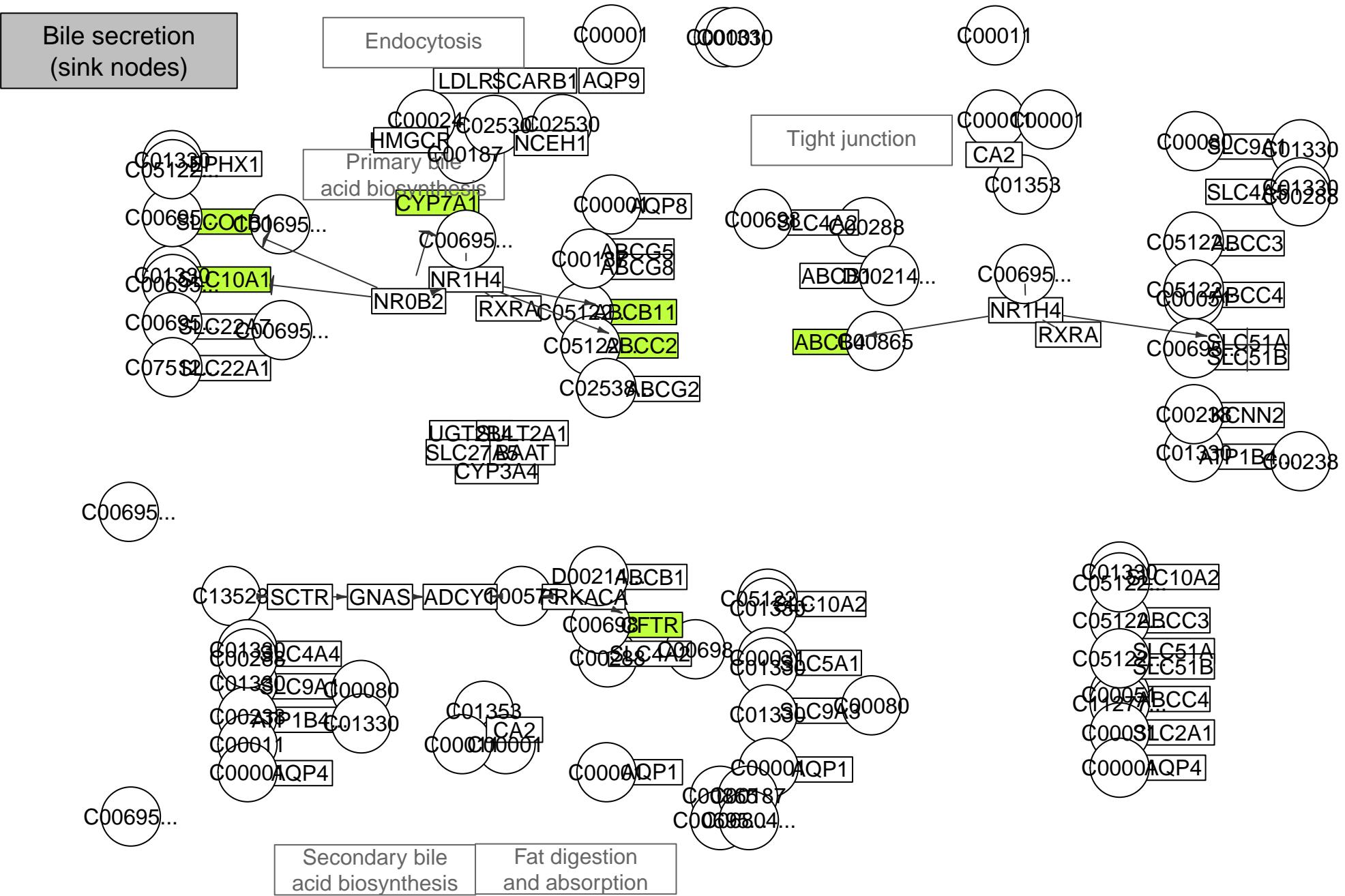


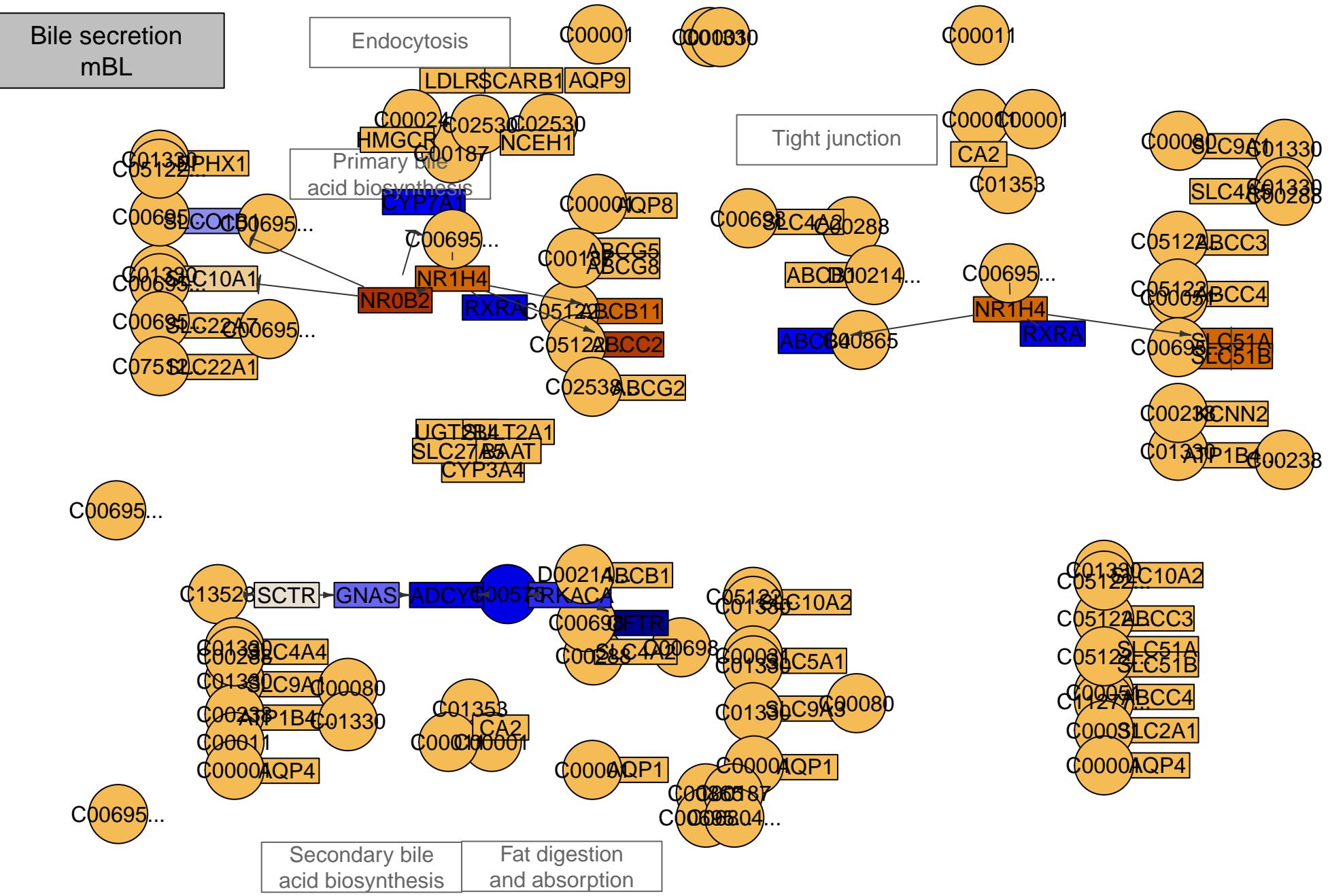
sink node genes



Bile secretion (genes with data)







Bile secretion intermediate

Endocytosis

C00001

C000030

C00011

C01330 PHX1
C05124...
C00695... COC00695...
C01330 C10A1
C00695...
C00695... SLC22A1

LDLR\$CARB1 AQP9

C00024 HMGCR
C02530 NCEH1
C00187 CYP7A1

Primary bile acid biosynthesis

C00695...

NR1H4

NR0B2

RXRα

C00001 AQP8

ABCG5 ABCG8

C00187 ABCB11

C05124 BCC2

C02530 ABCG2

UGT2B4 T2A1

SLC27A5 BAAT

CYP3A4

Tight junction

C00695 SLC4A2

A0288

ABCB10214...

ABCB10865

C00001 C00001

CA2

C01353

C00060 SLC9A5 C01330
C00060 SLC45A4 C01330
C05124 ABCC3
C05124 ABCC4
C00695 SEC51A
C00695 SEC51B
C00238 CNN2
C01330 ATP1B C00238

C00695...

C13528 SCTR → GNAS → ADCY C0057 → RKA4
C01330 C4A4
C01330 C9A1 C00080
C00238 ATP1B C01330
C00011
C00001 AQP4

D00214 ABCB1
C00698 FTR
C00238 C00698
C01330 C5A1
C01330 C9A9 C00080
C00001 AQP1
C00238 C00698
C00698 C00080...

C01330 C10A2
C05124 C10A2
C05124 ABCC3
C05124 SEC51A
C05124 SEC51B
C00057 BCC4
C01274 ATP1B
C00083 SLC2A1
C00001 AQP4

Secondary bile acid biosynthesis

Fat digestion and absorption

