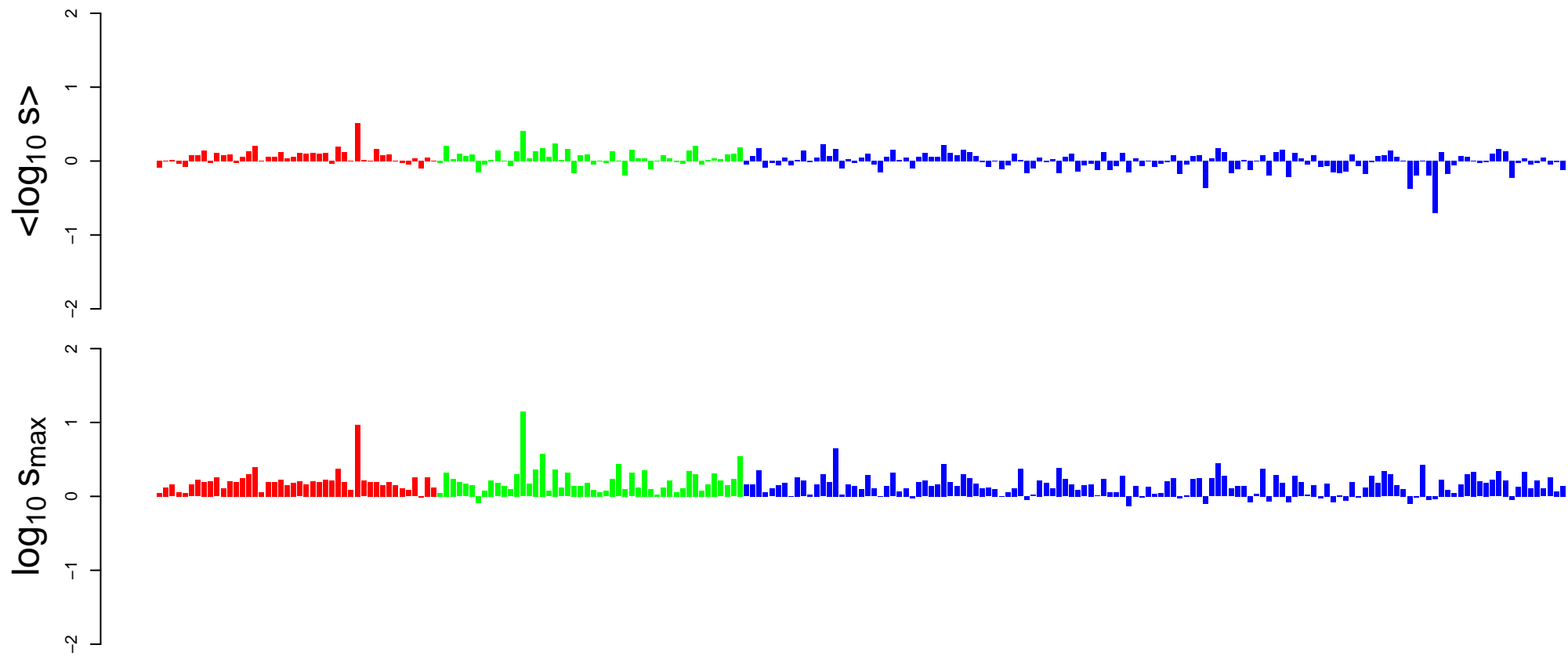
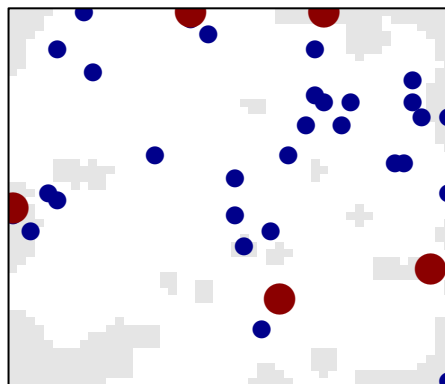
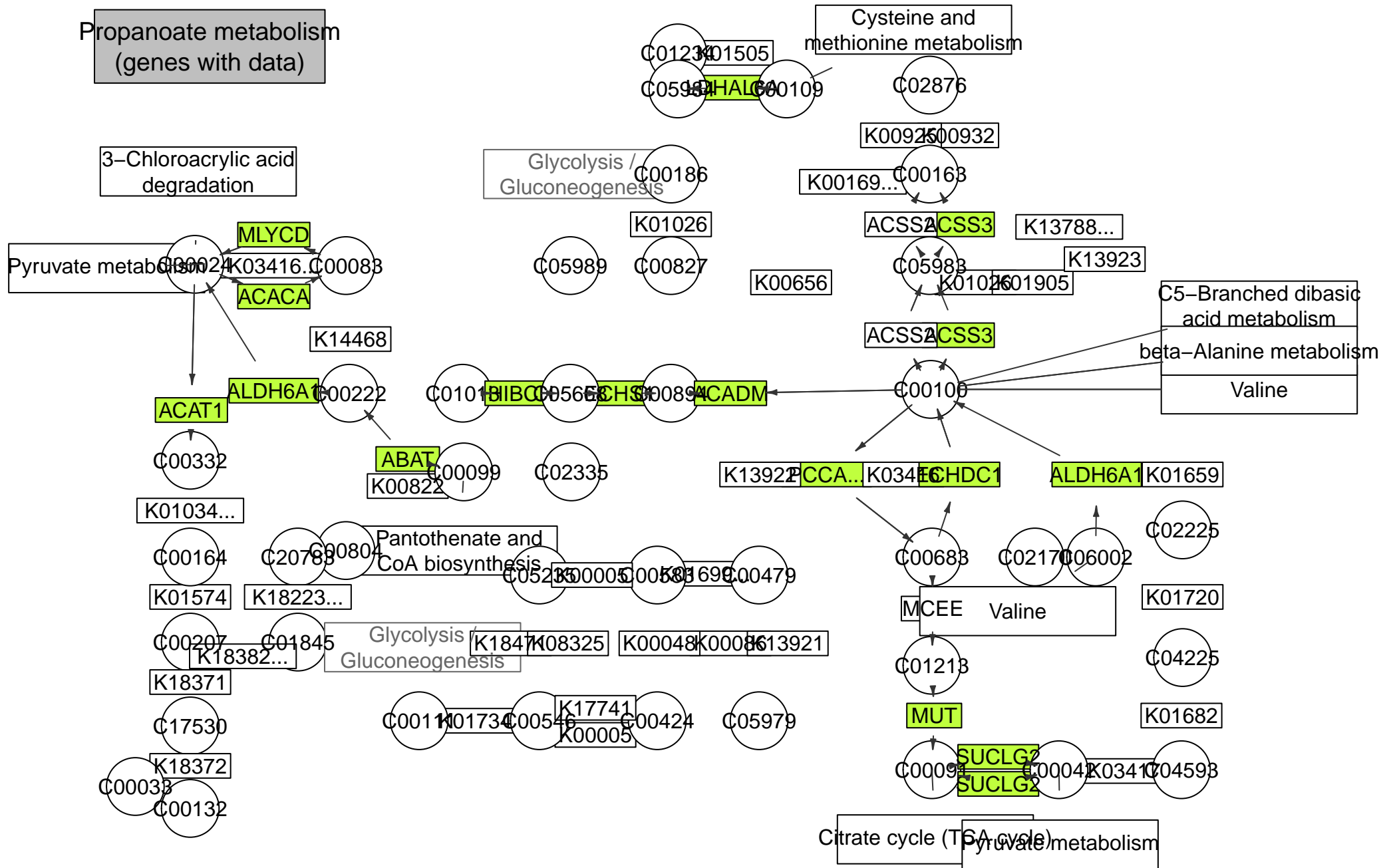
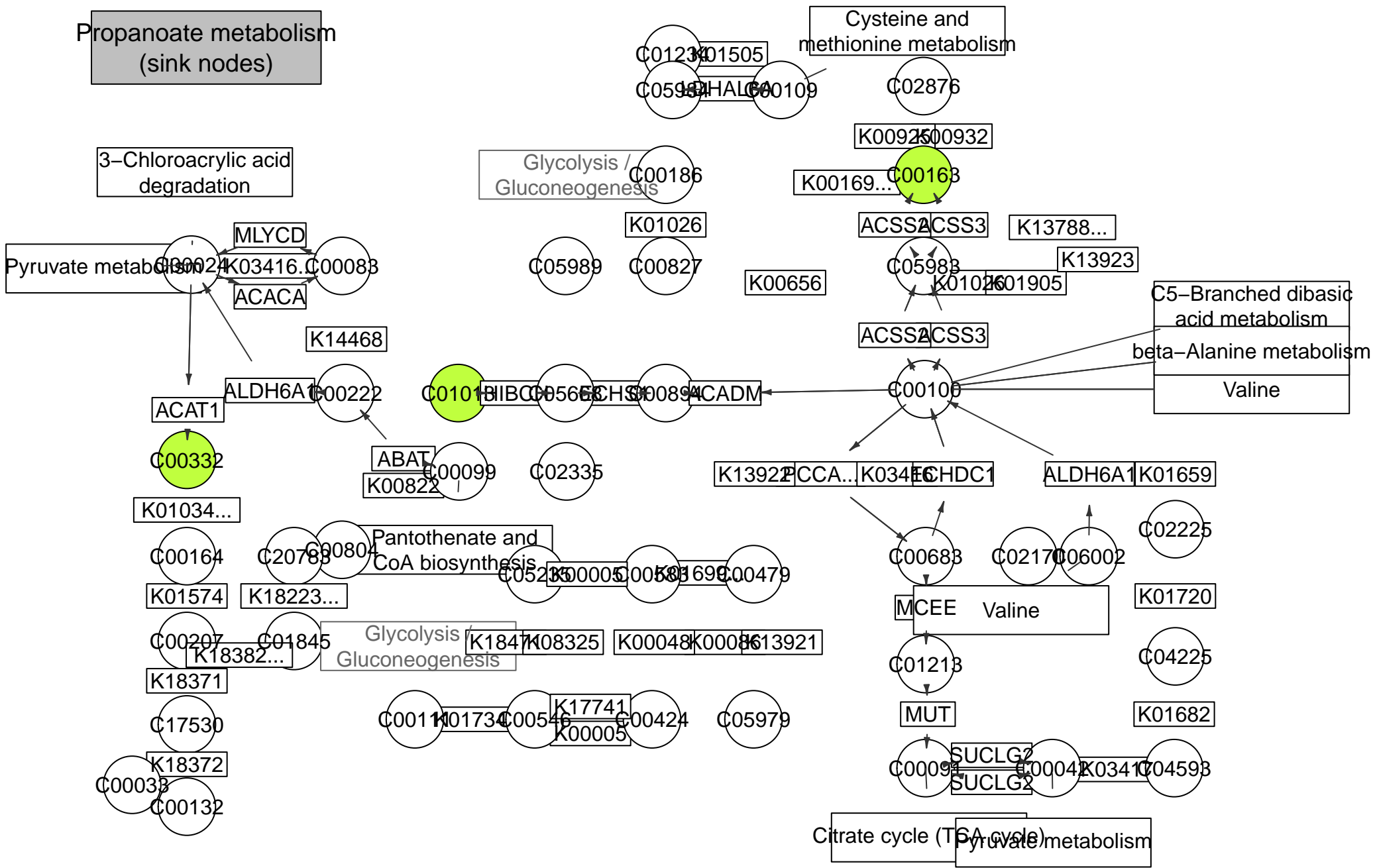


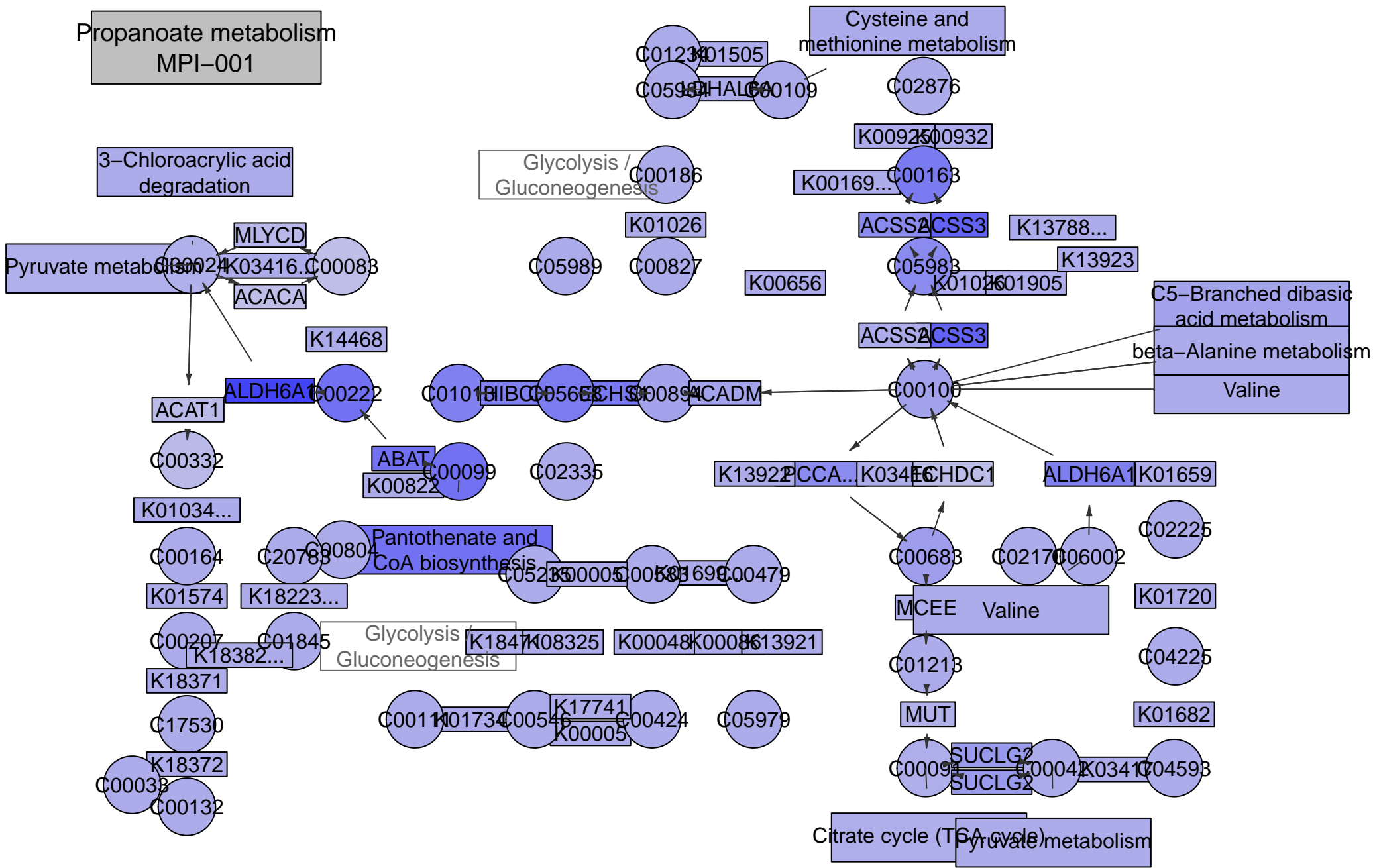
Propanoate metabolism

all genes









Propanoate metabolism
MPI-001

Cysteine and methionine metabolism

3-Chloroacrylic acid degradation

Glycolysis / Gluconeogenesis

Pyruvate metabolism

C5-Branched dibasic acid metabolism

beta-Alanine metabolism

Valine

Pantothenate and CoA biosynthesis

Glycolysis / Gluconeogenesis

Citrate cycle (TCA cycle)
Pyruvate metabolism

Propanoate metabolism
MPI-002

3-Chloroacrylic acid
degradation

Pyruvate metabolism

Glycolysis /
Gluconeogenesis

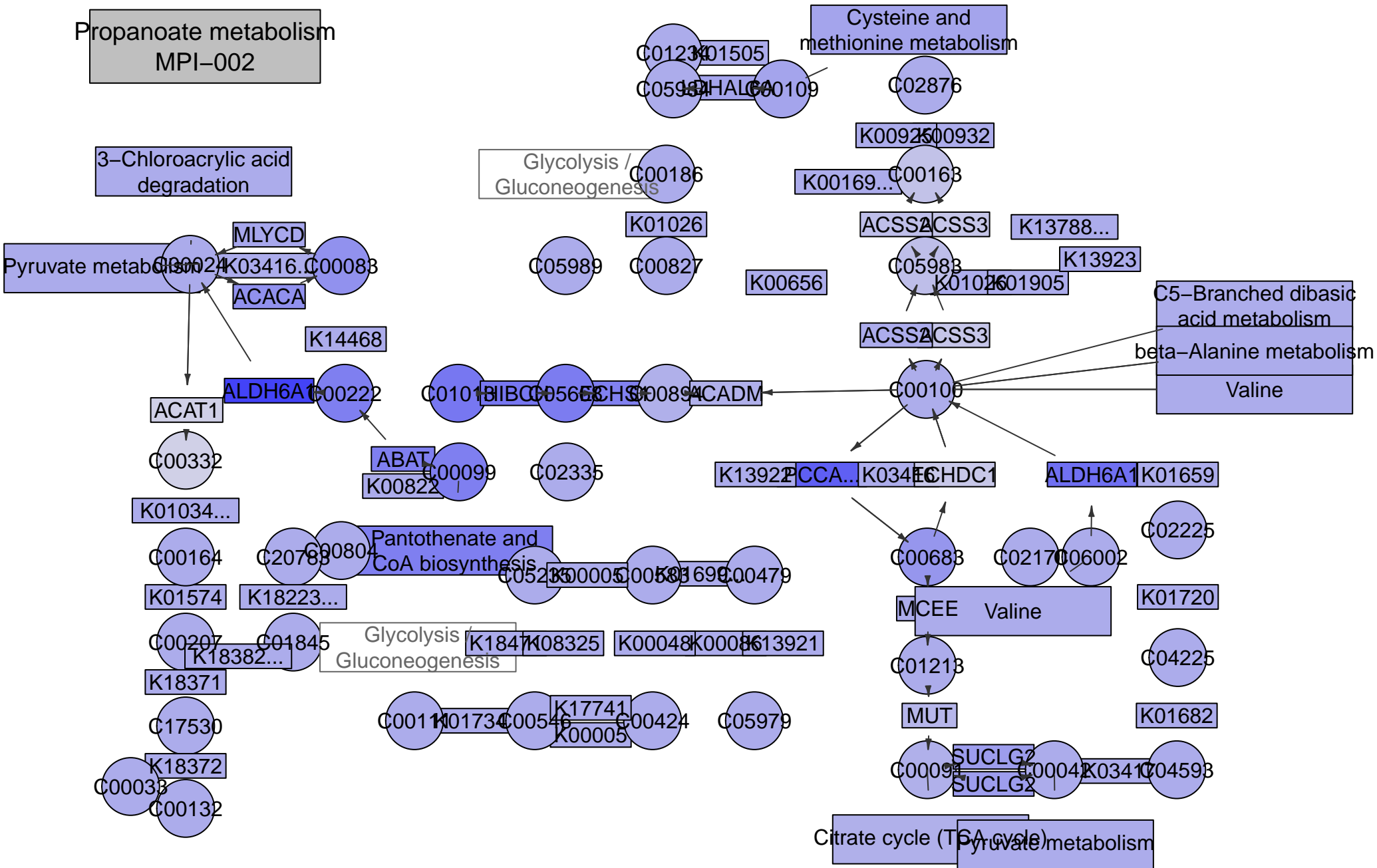
Cysteine and
methionine metabolism

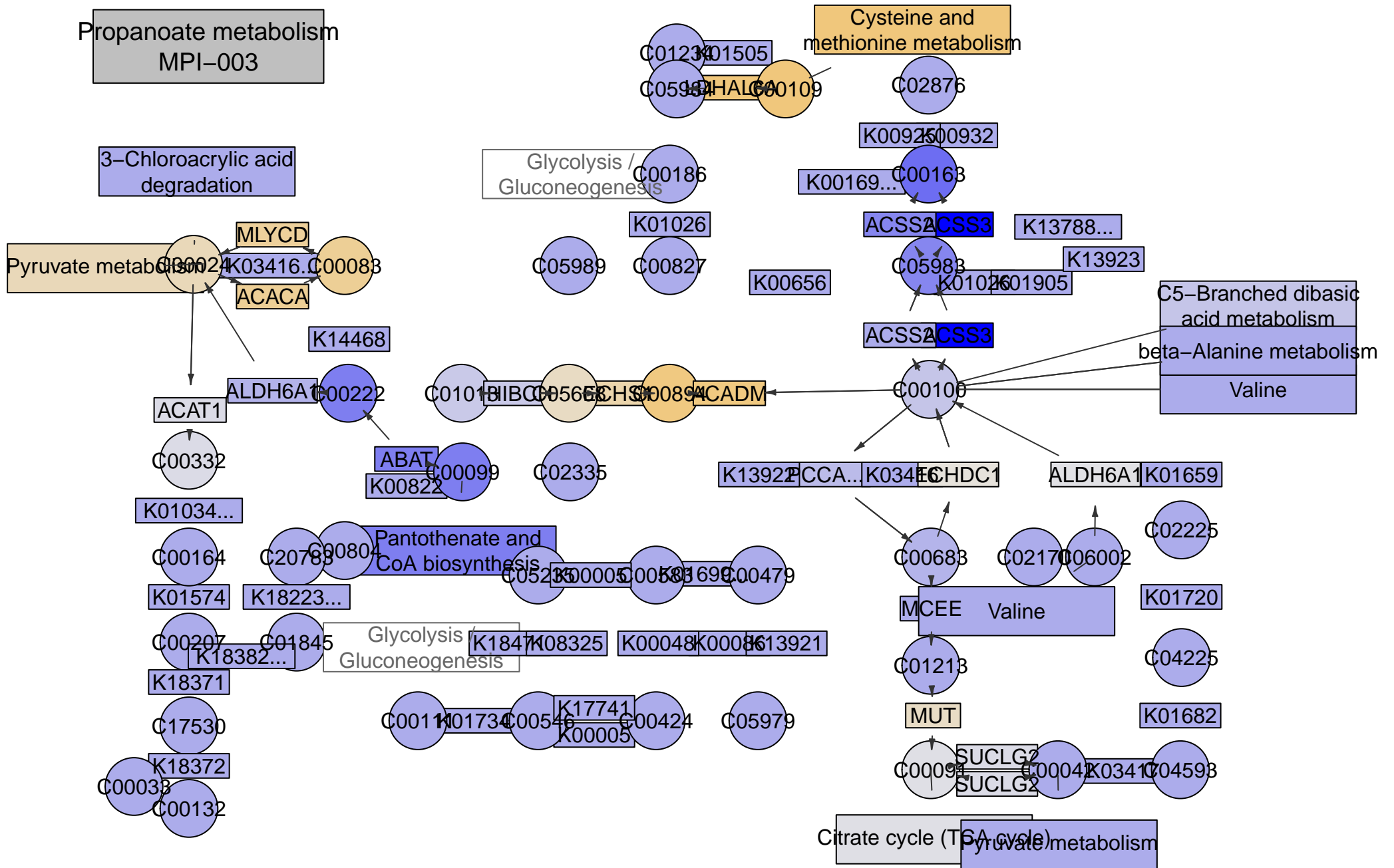
C5-Branched dibasic
acid metabolism
beta-Alanine metabolism
Valine

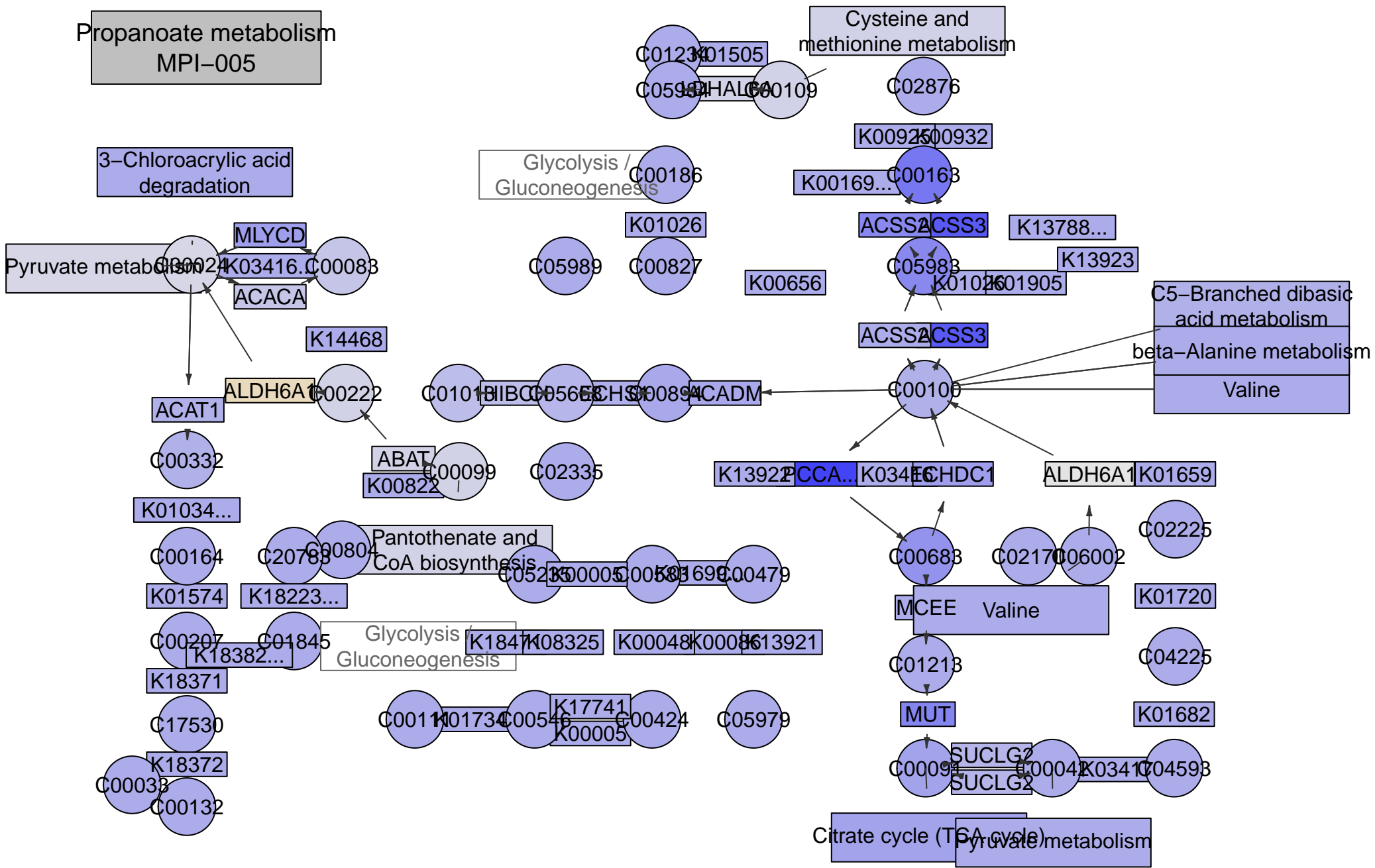
Pantothenate and
CoA biosynthesis

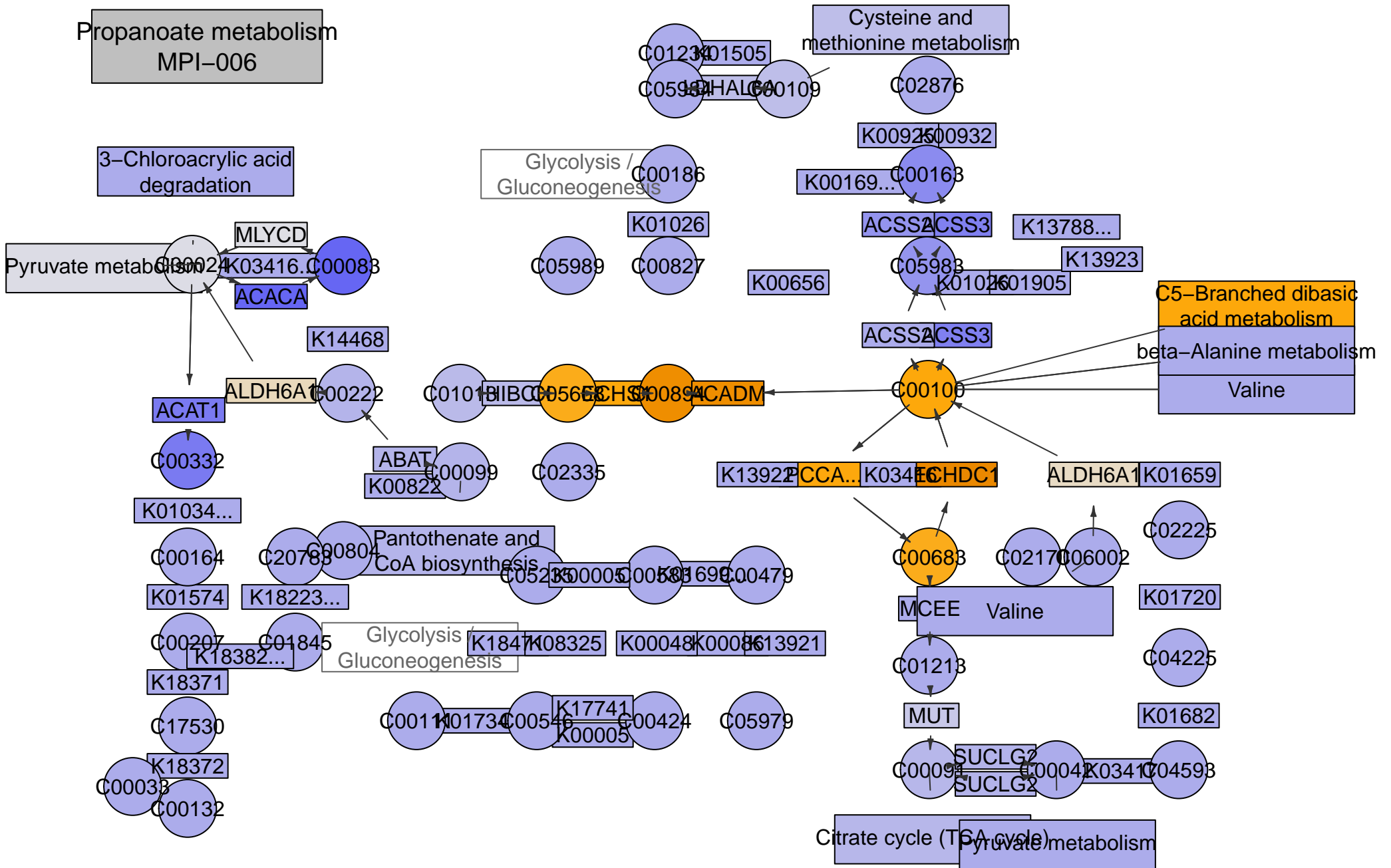
Glycolysis /
Gluconeogenesis

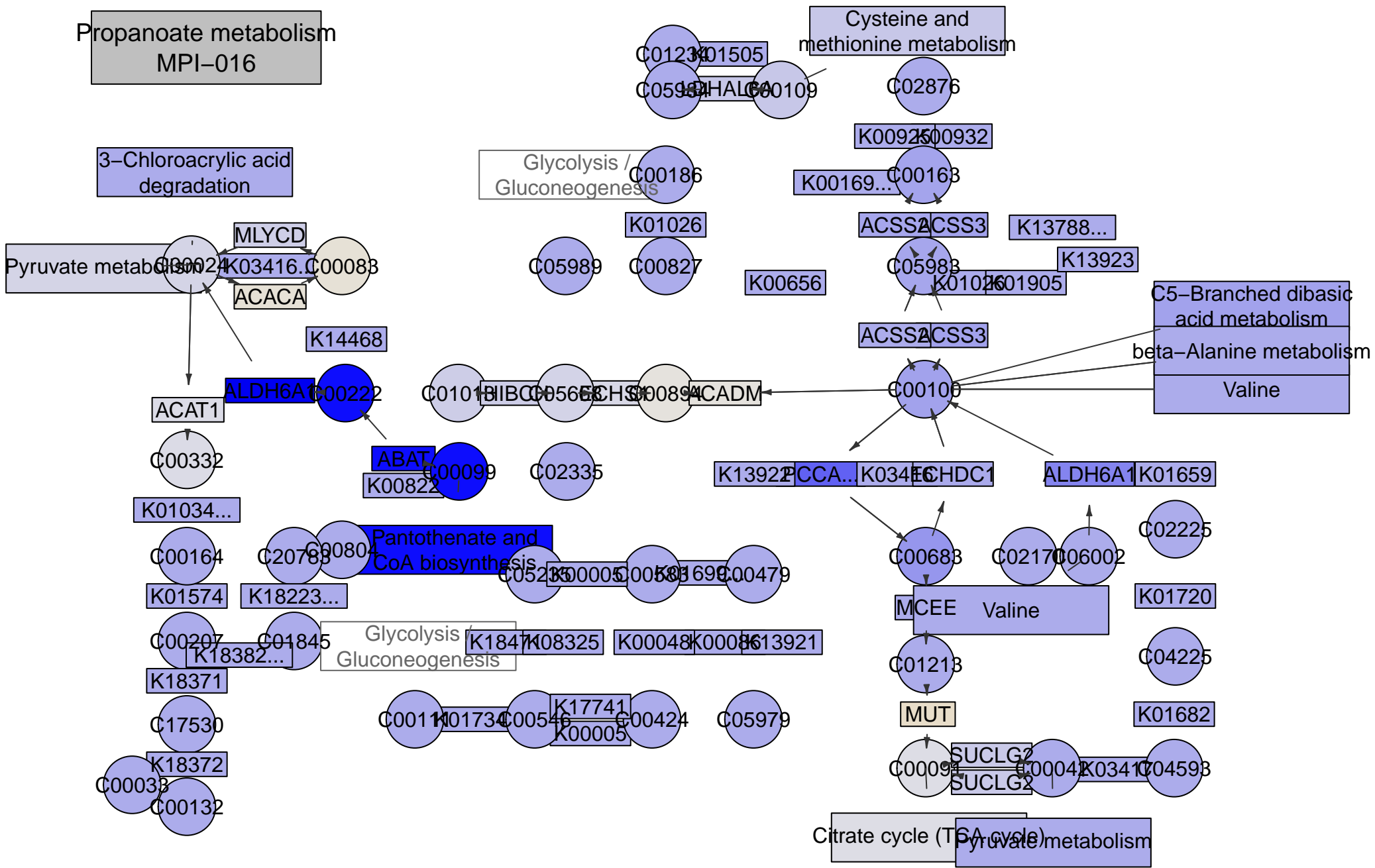
Citrate cycle (TCA cycle)
pyruvate metabolism

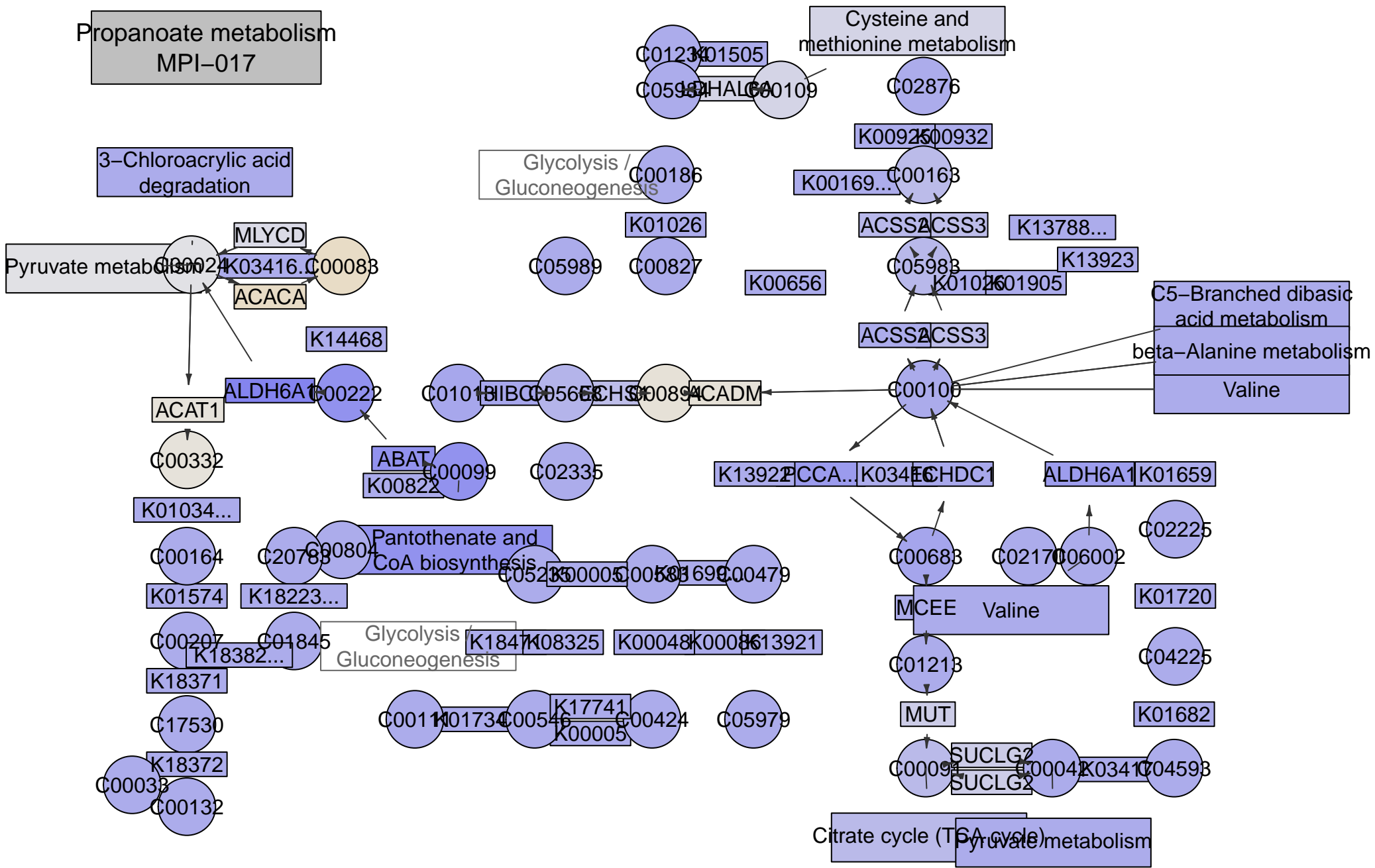


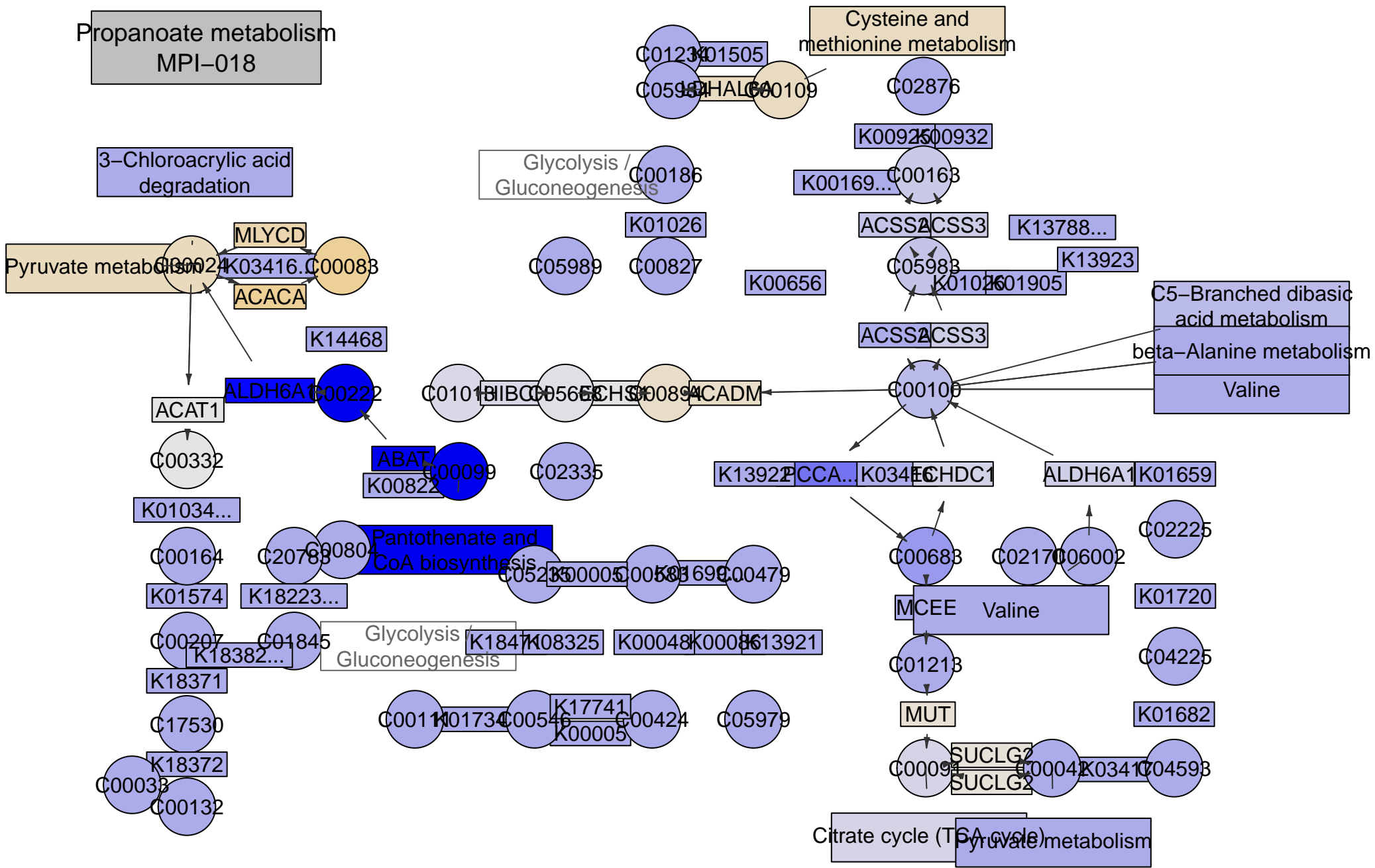


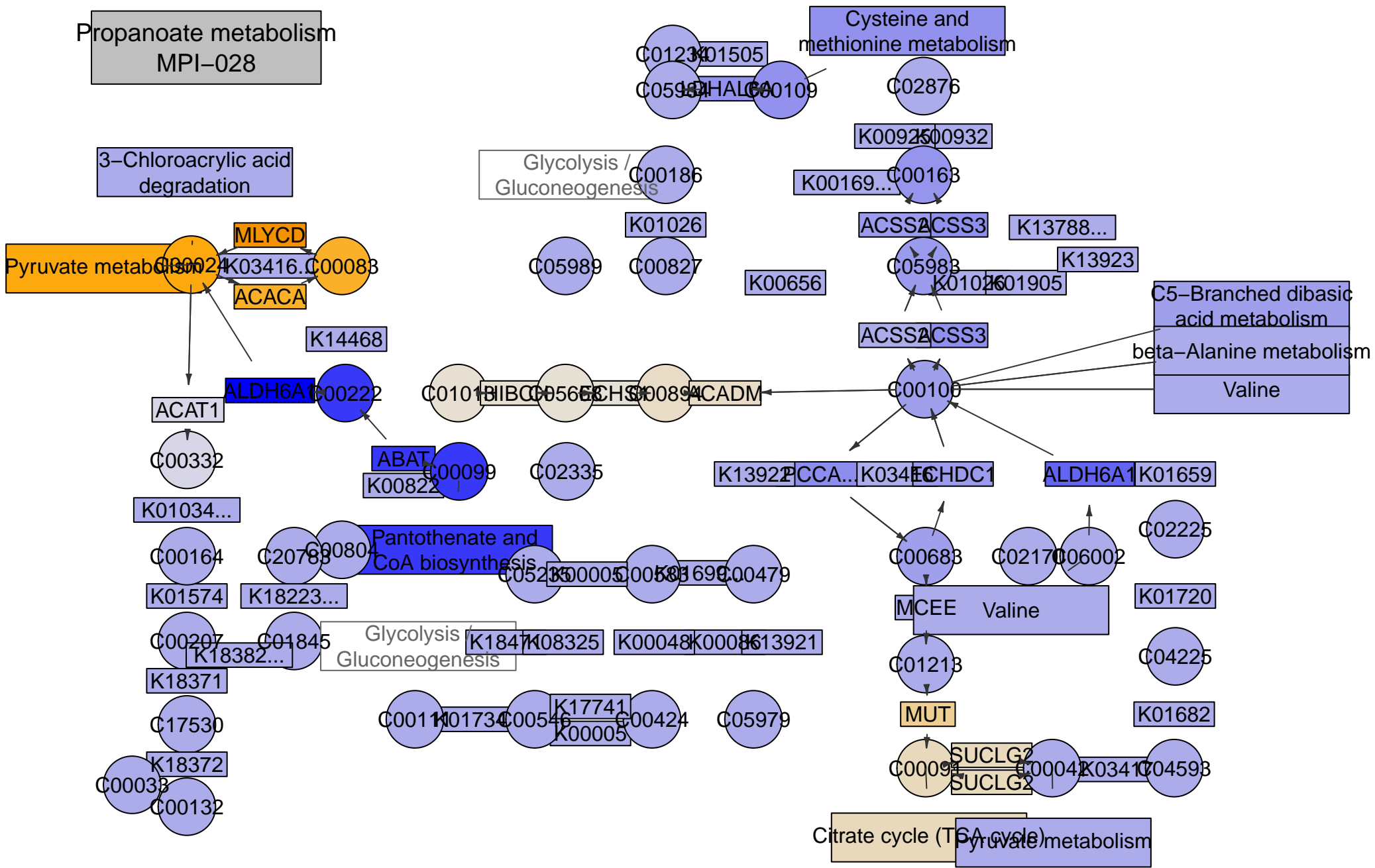


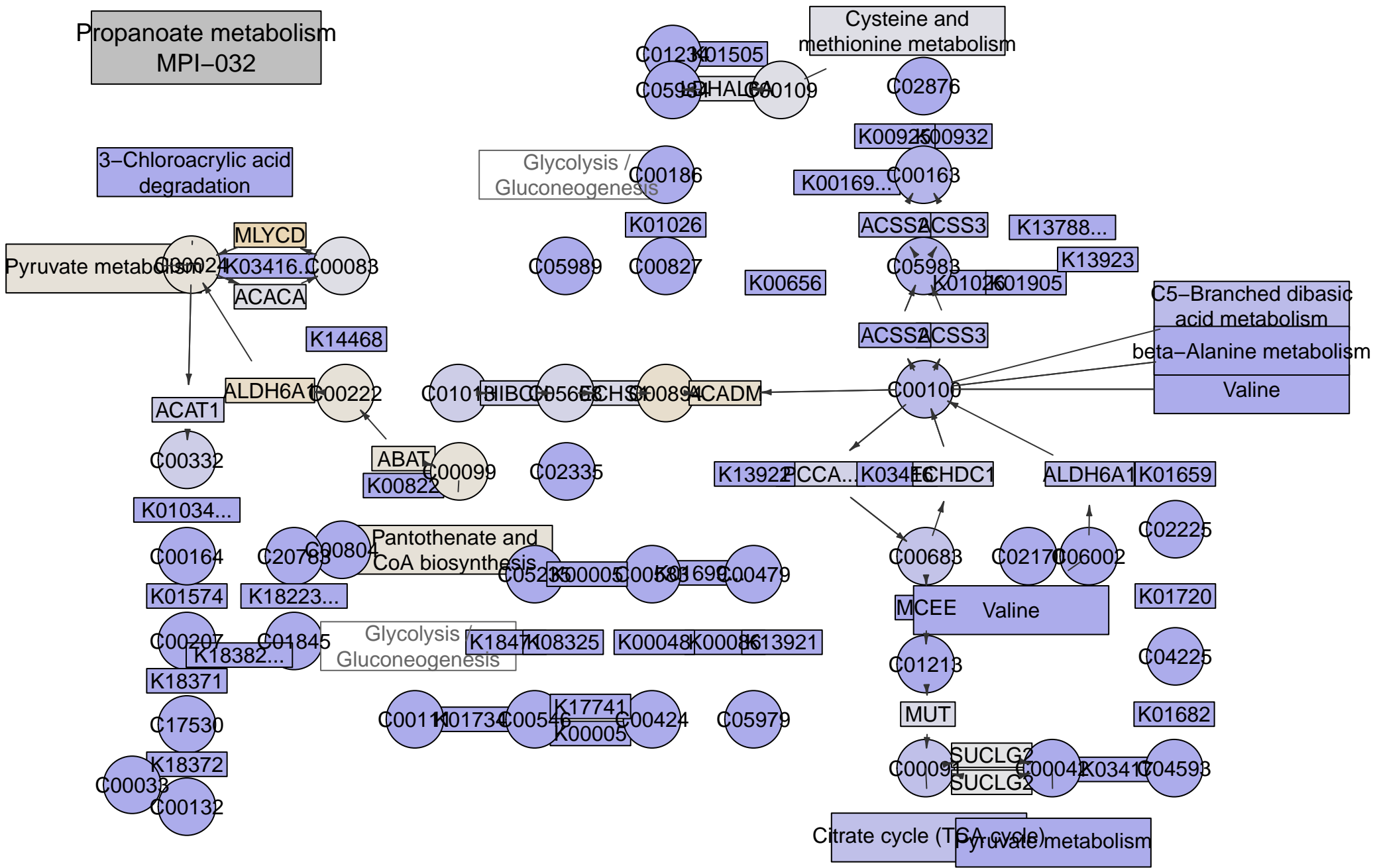


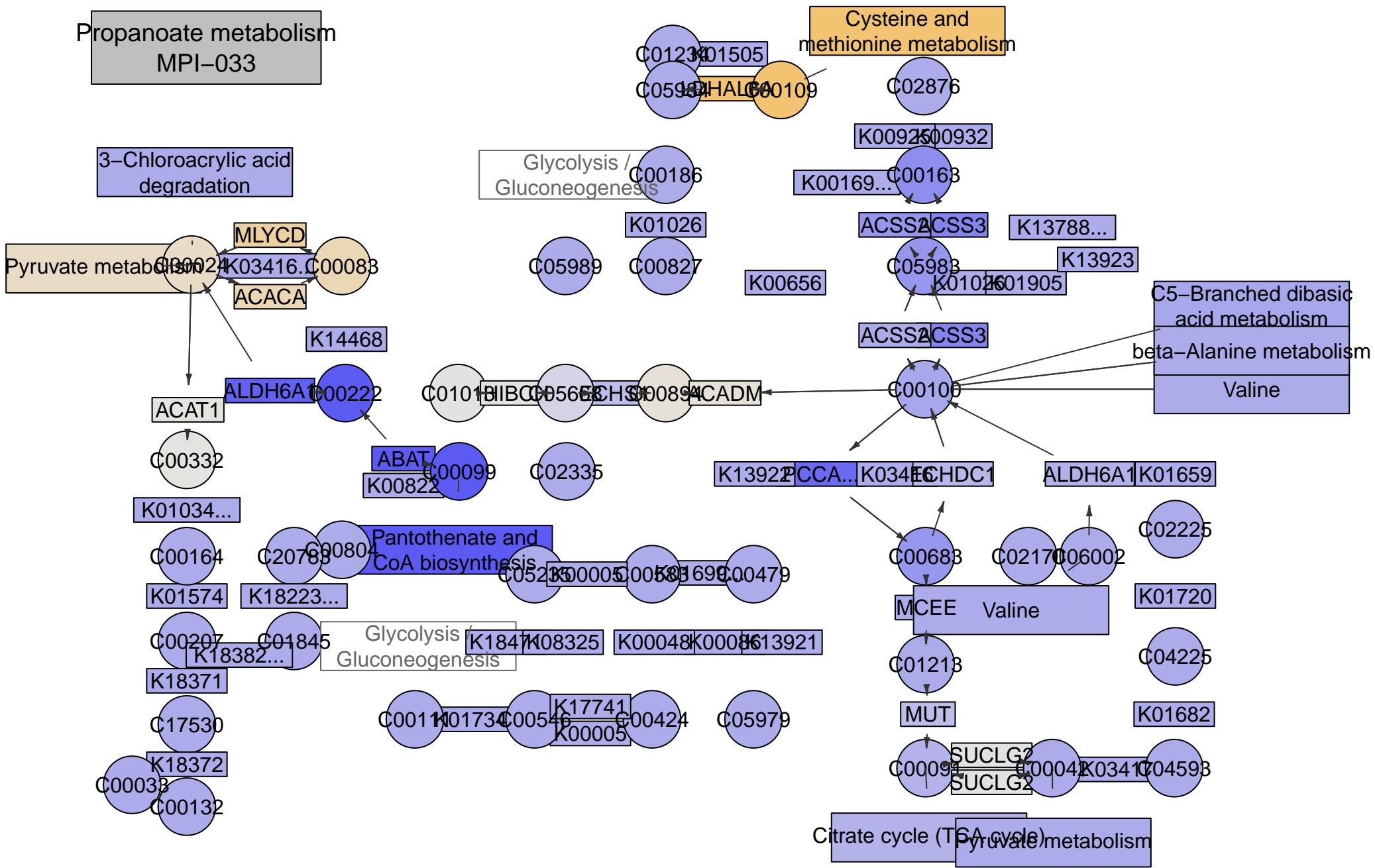


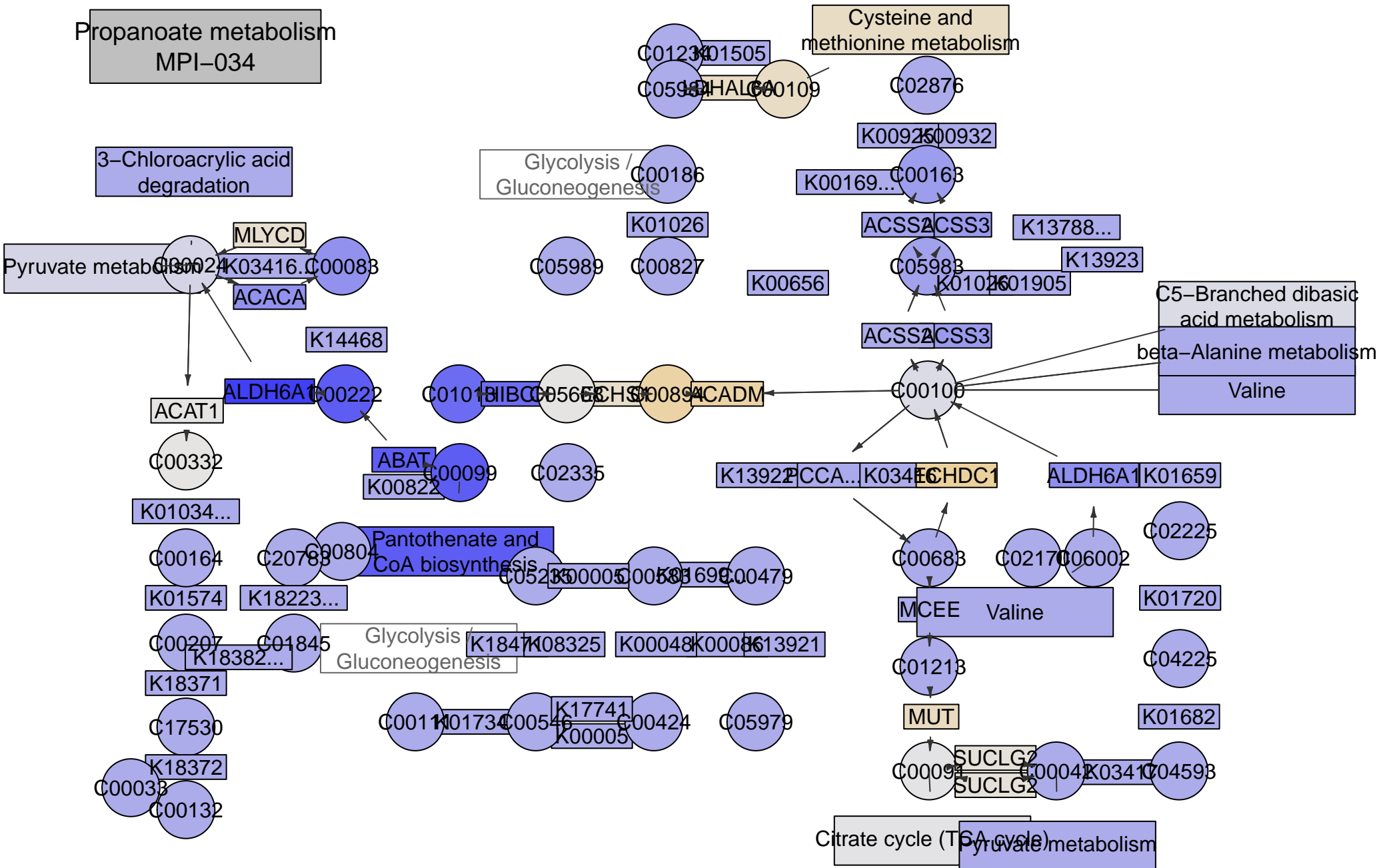


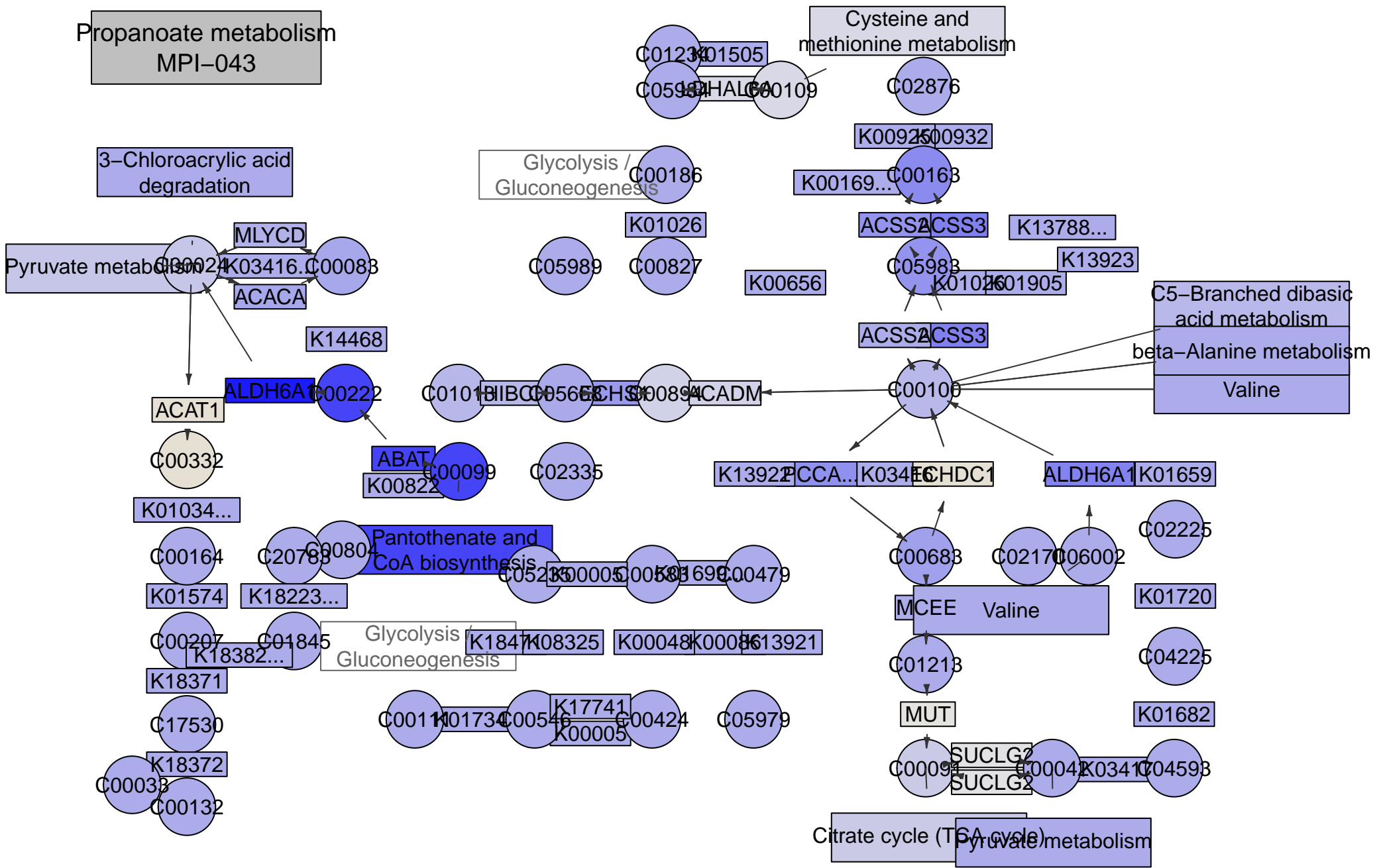


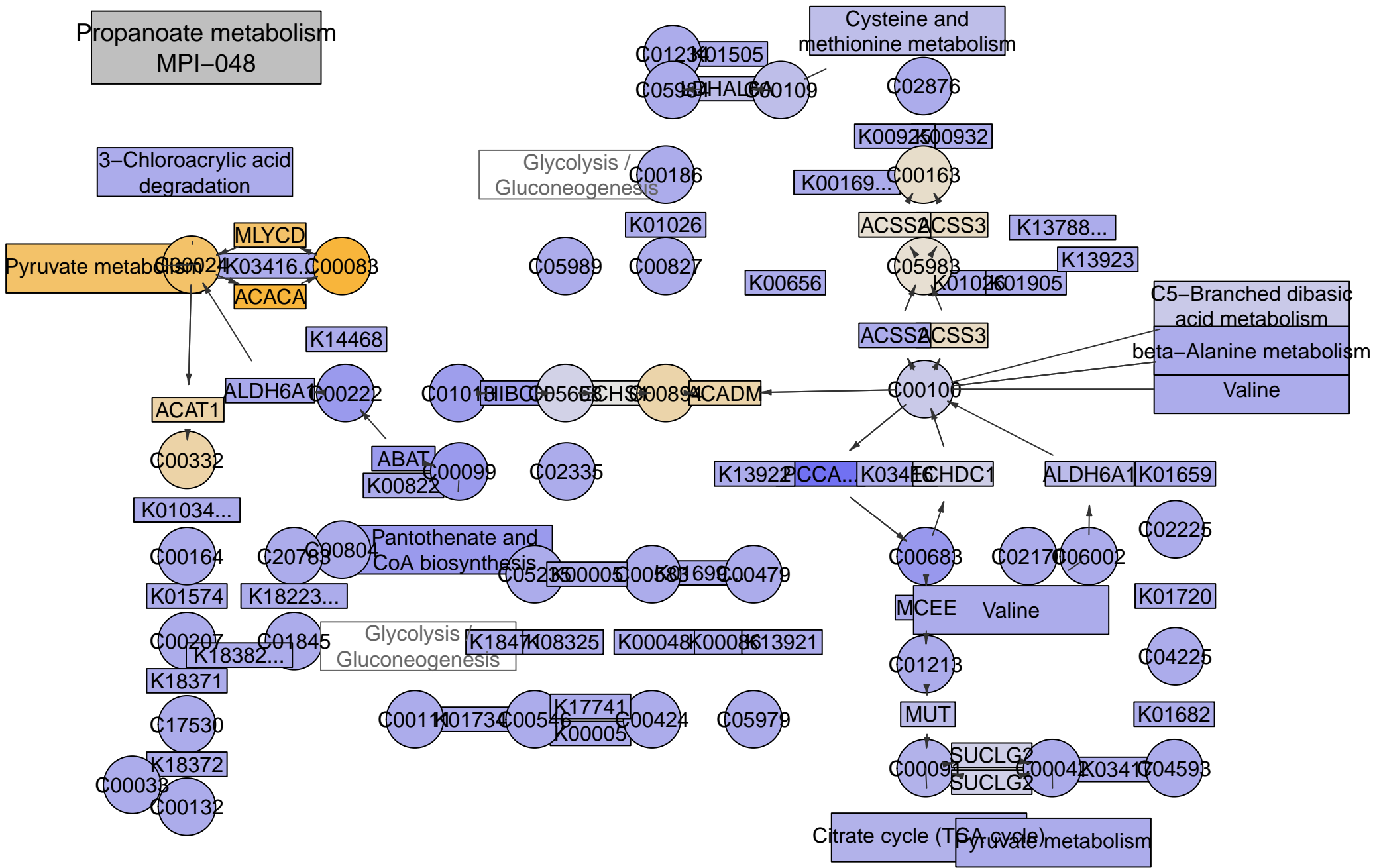


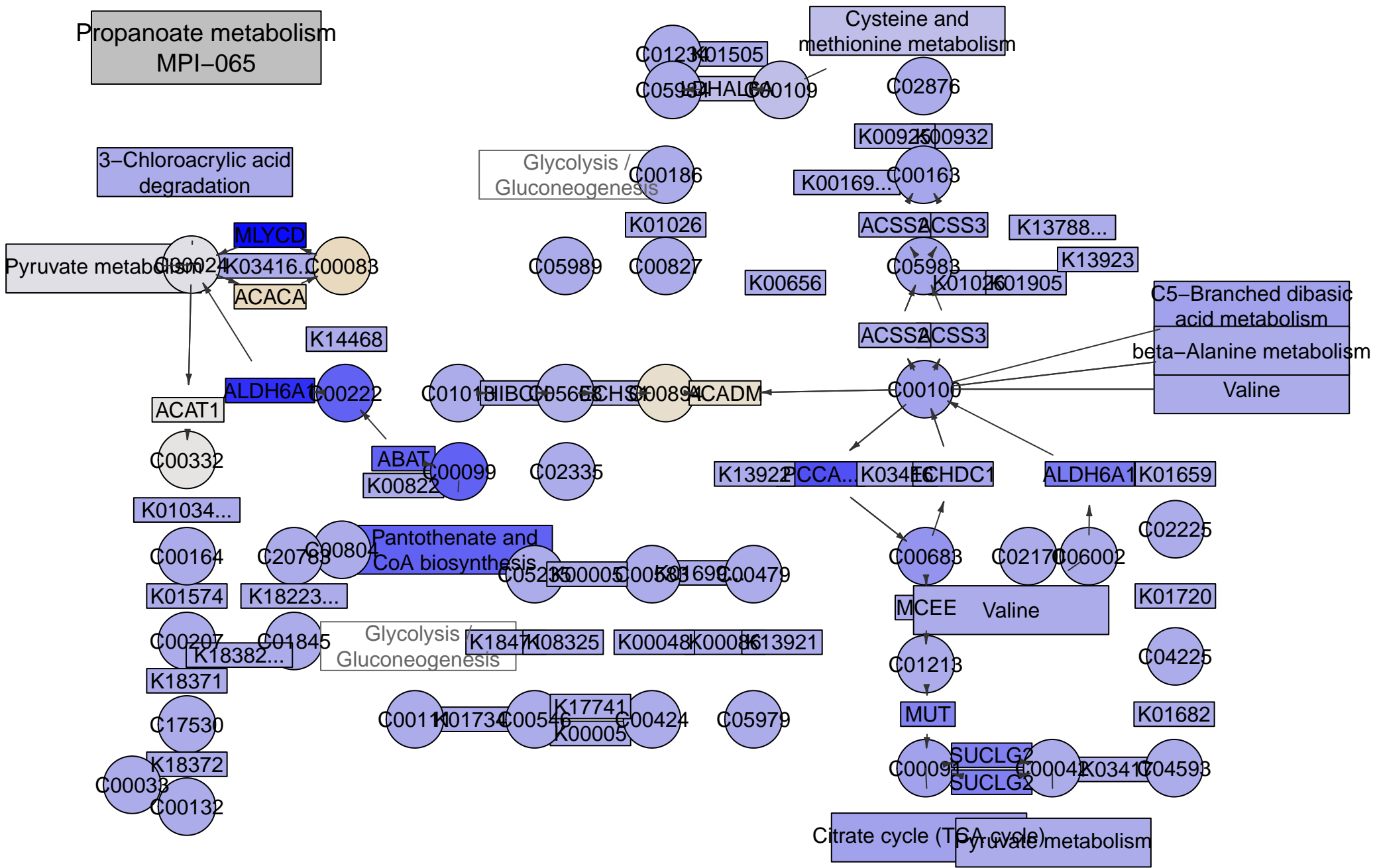


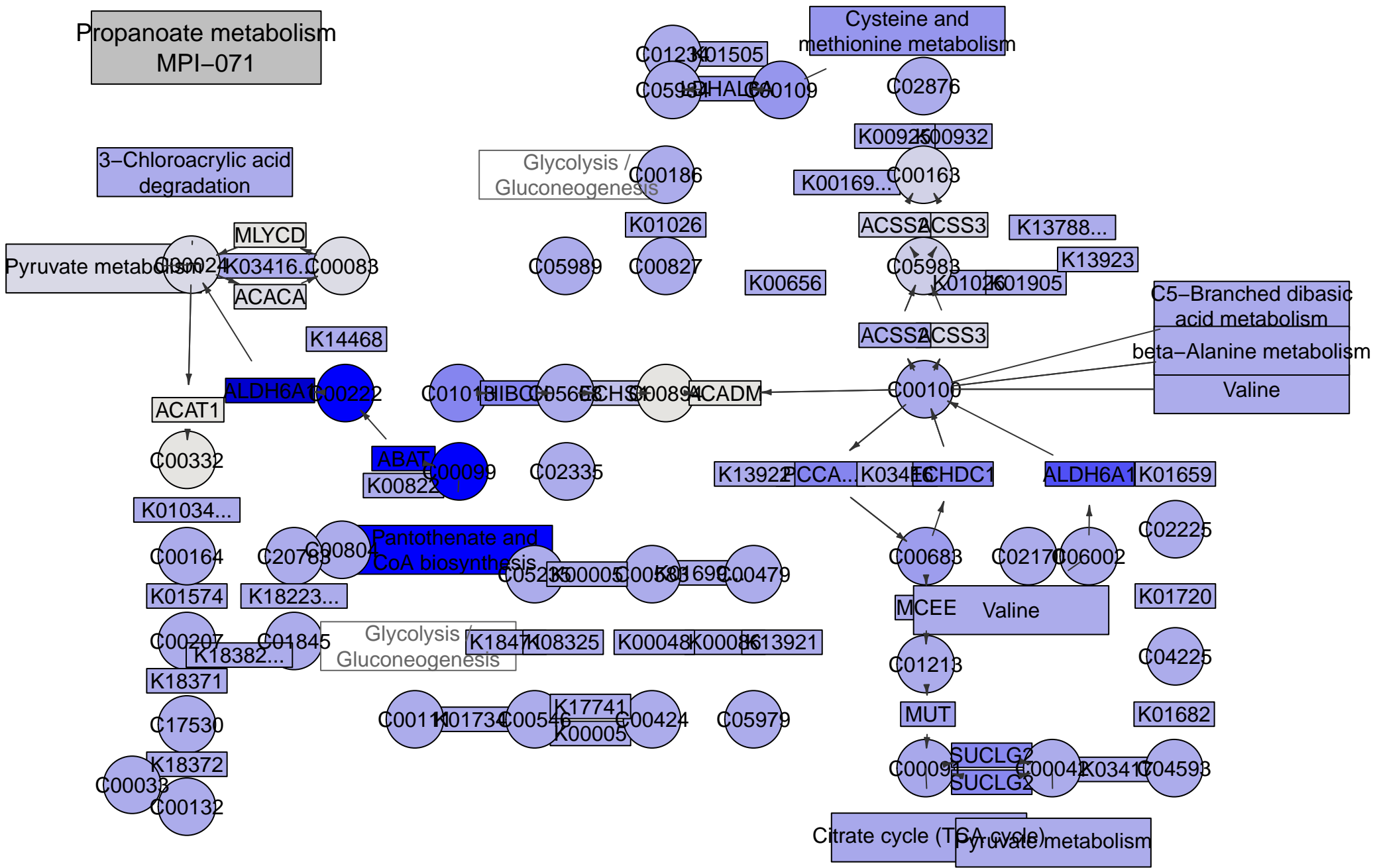


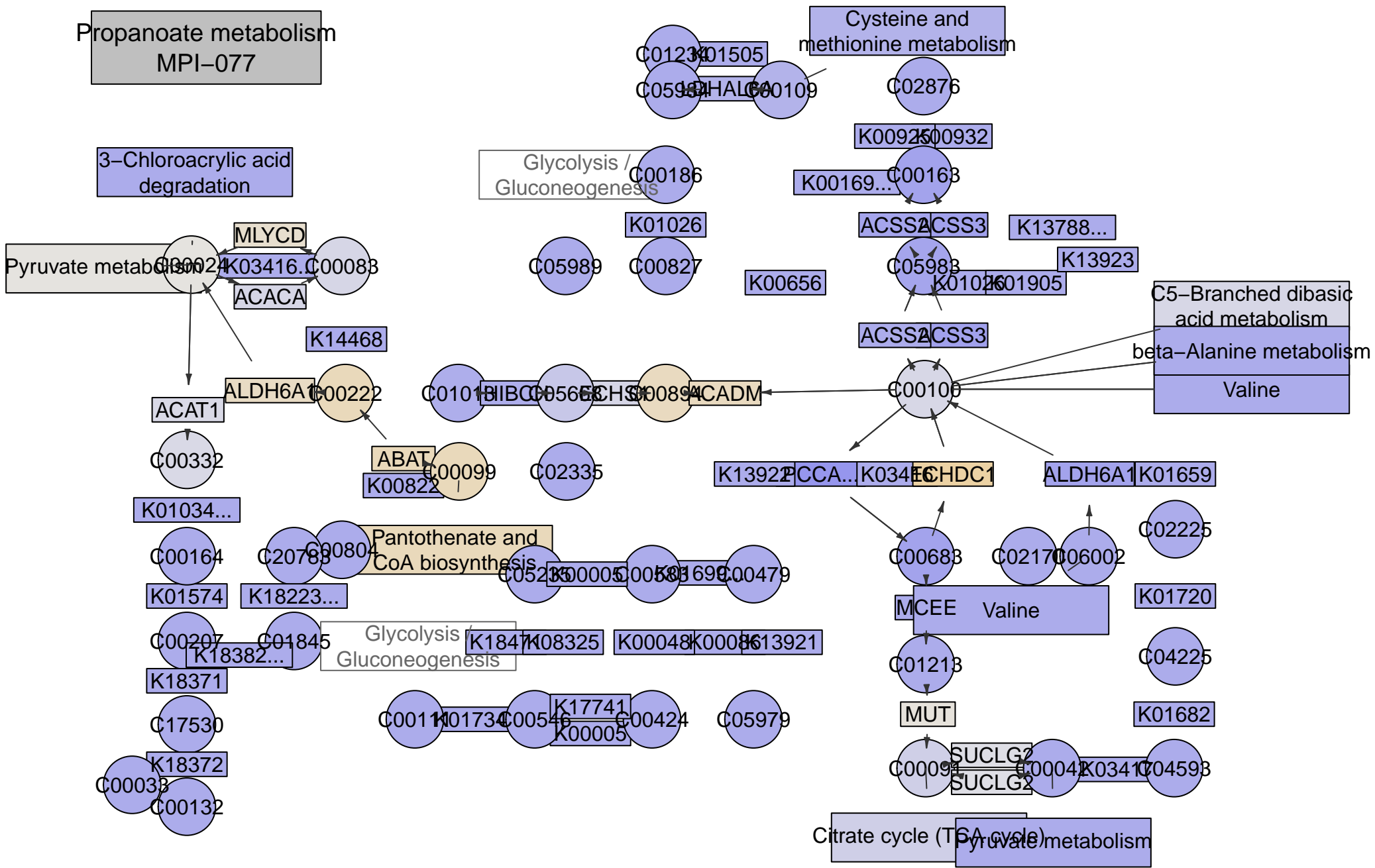


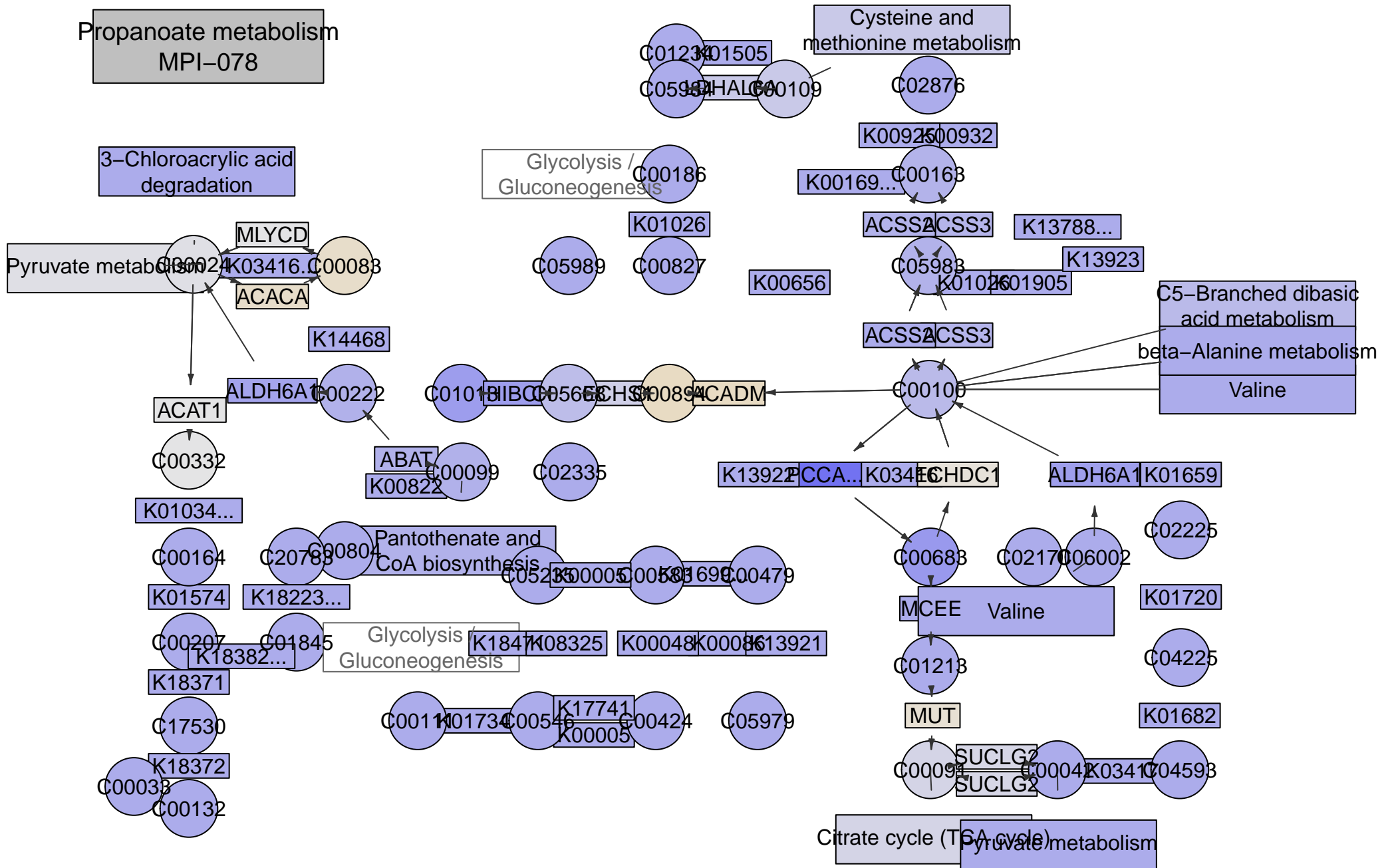


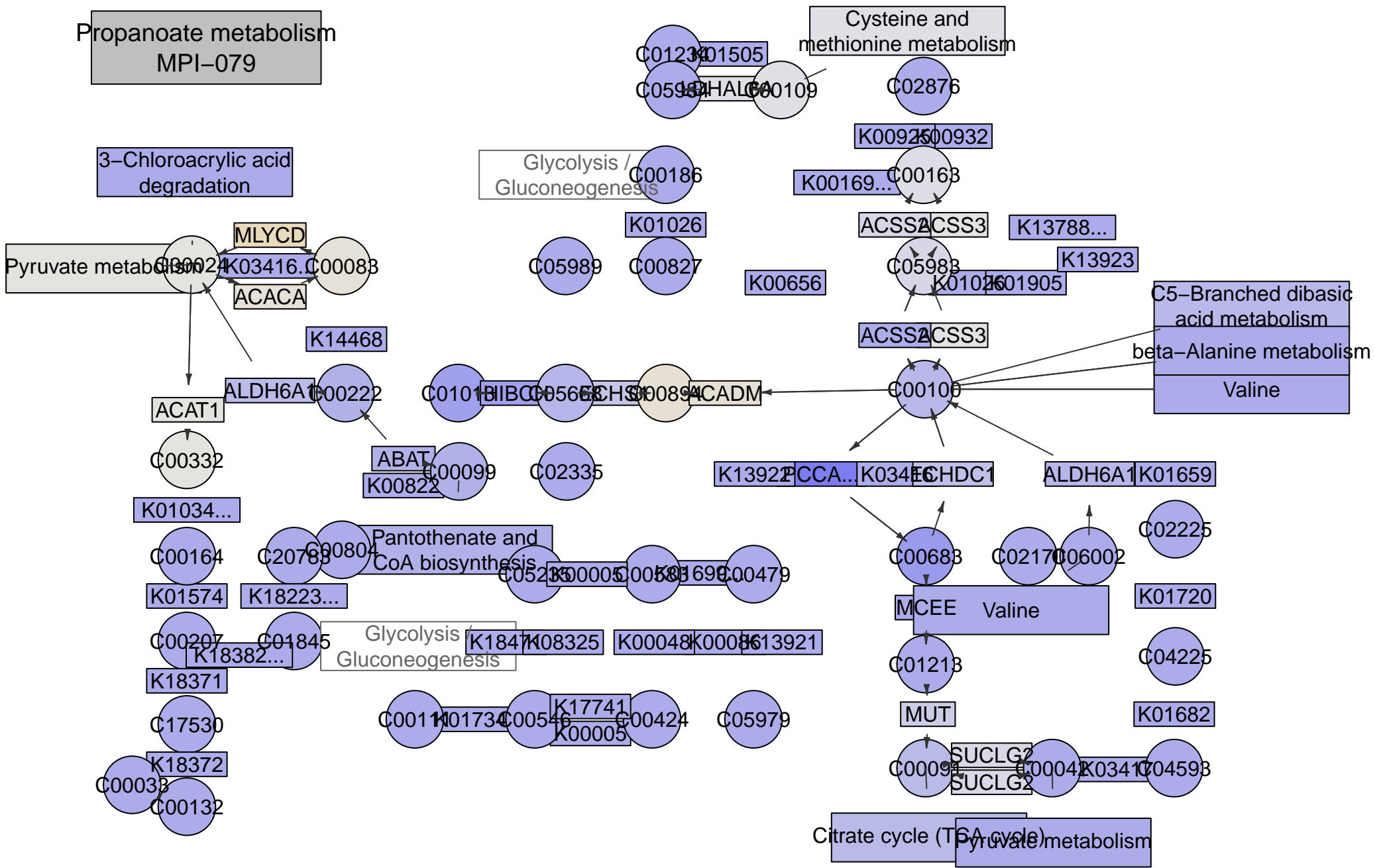


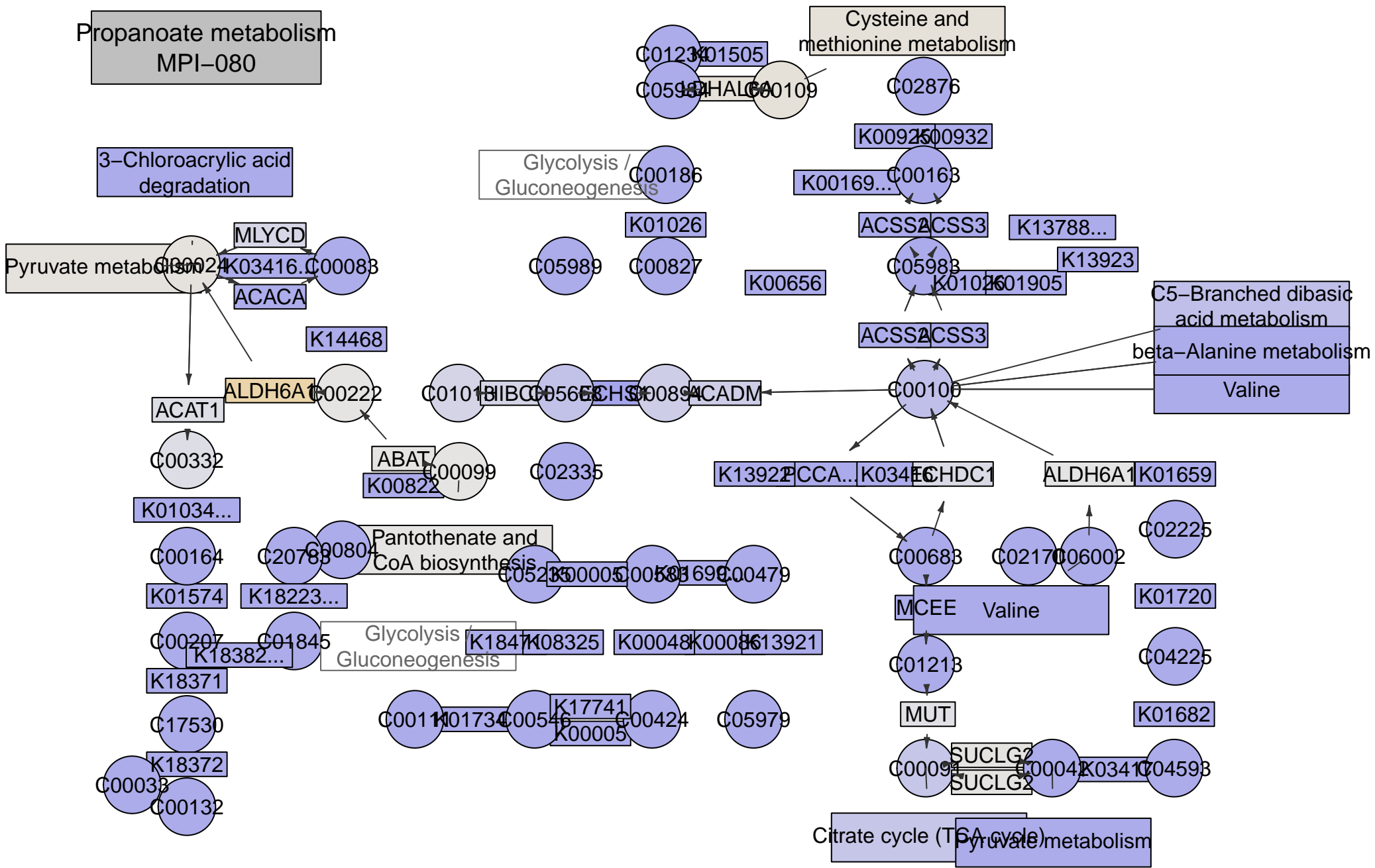


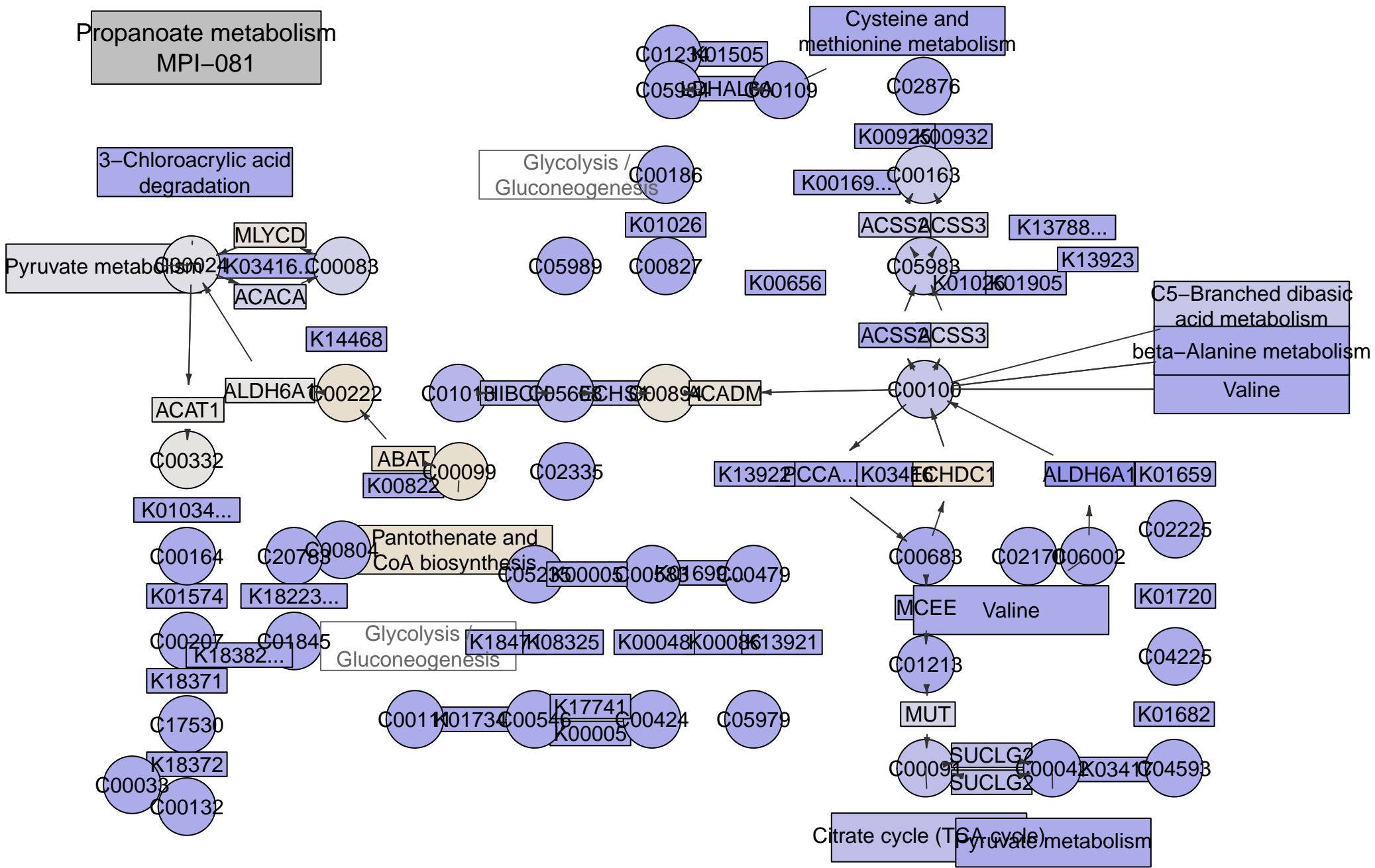


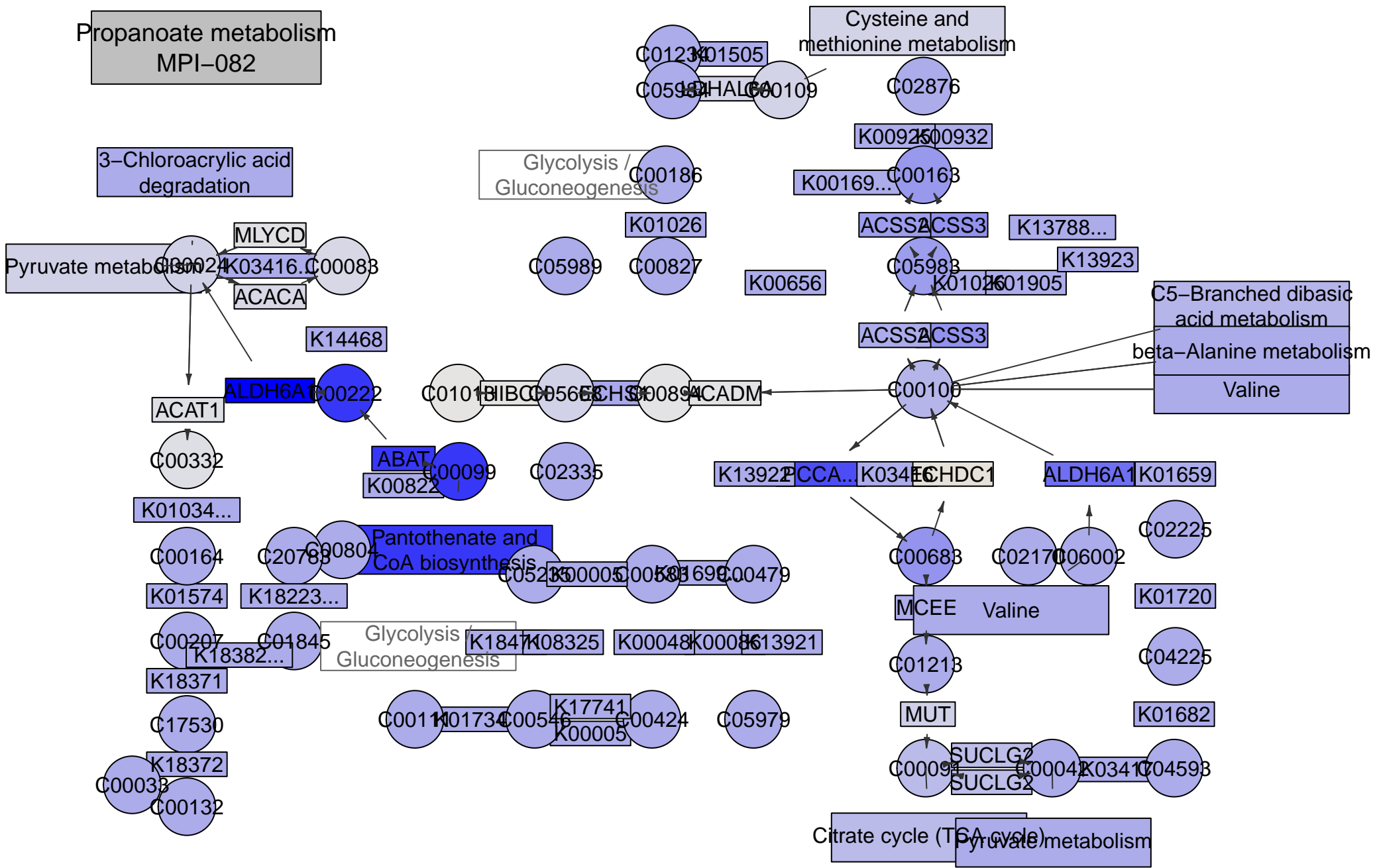


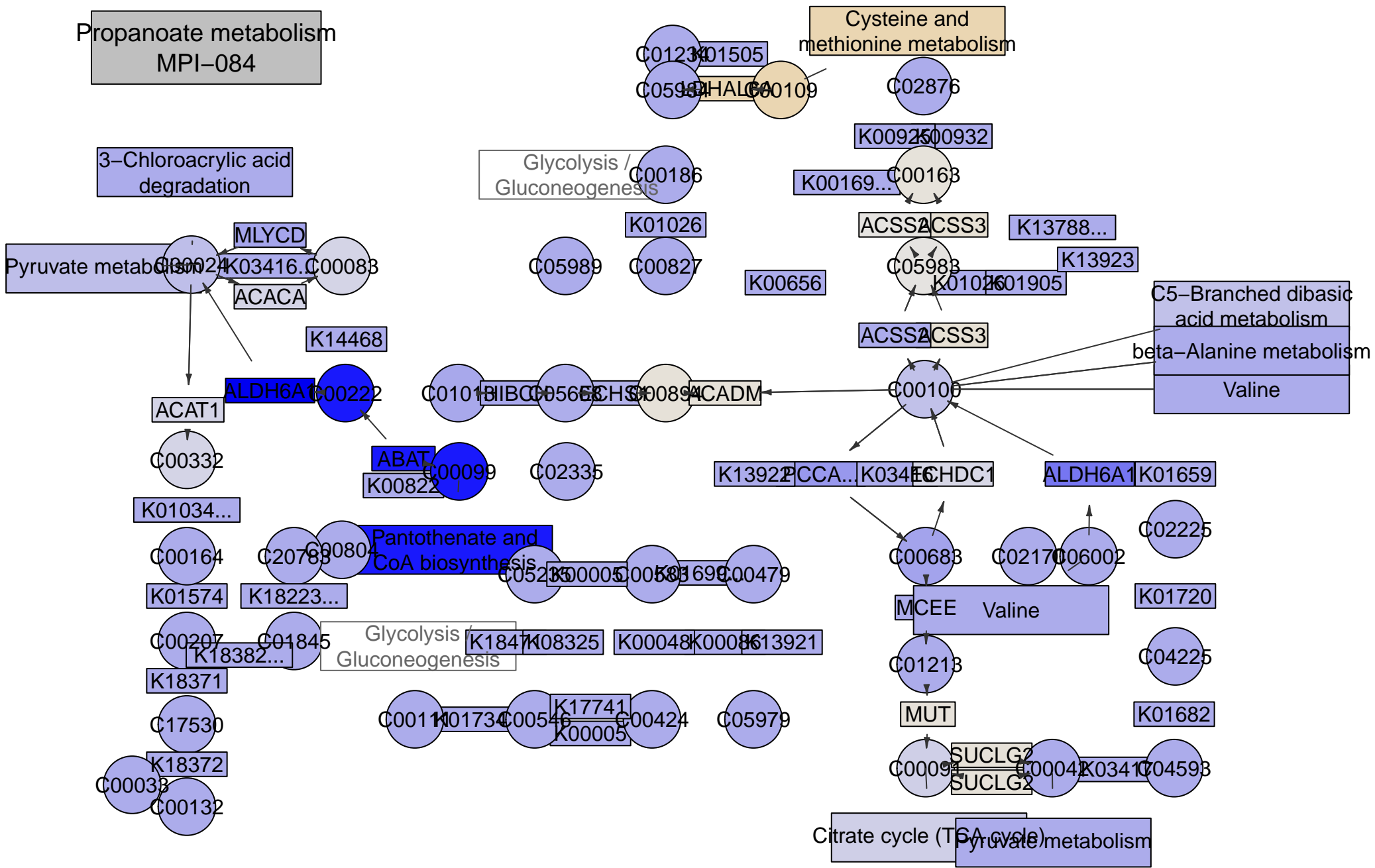


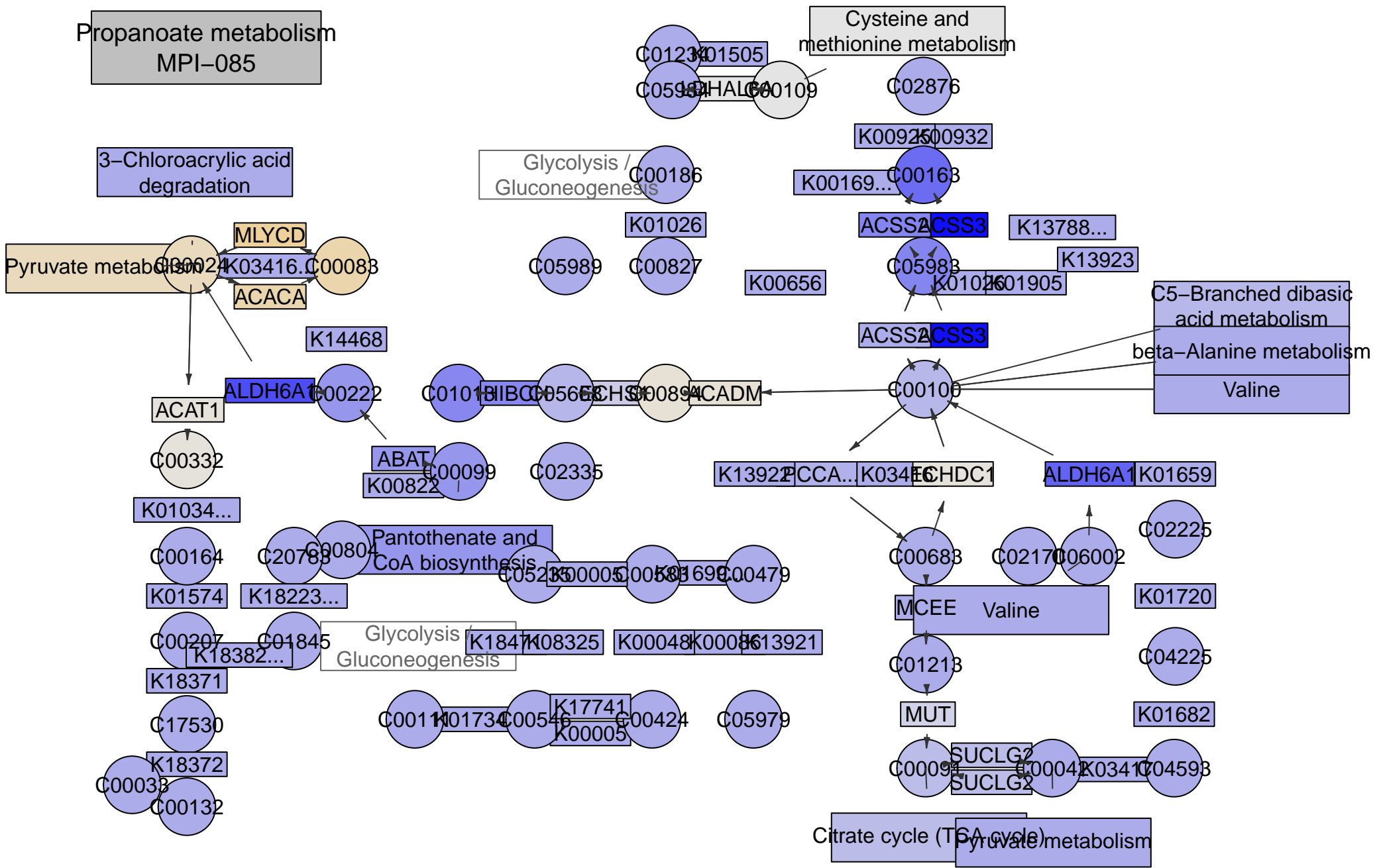


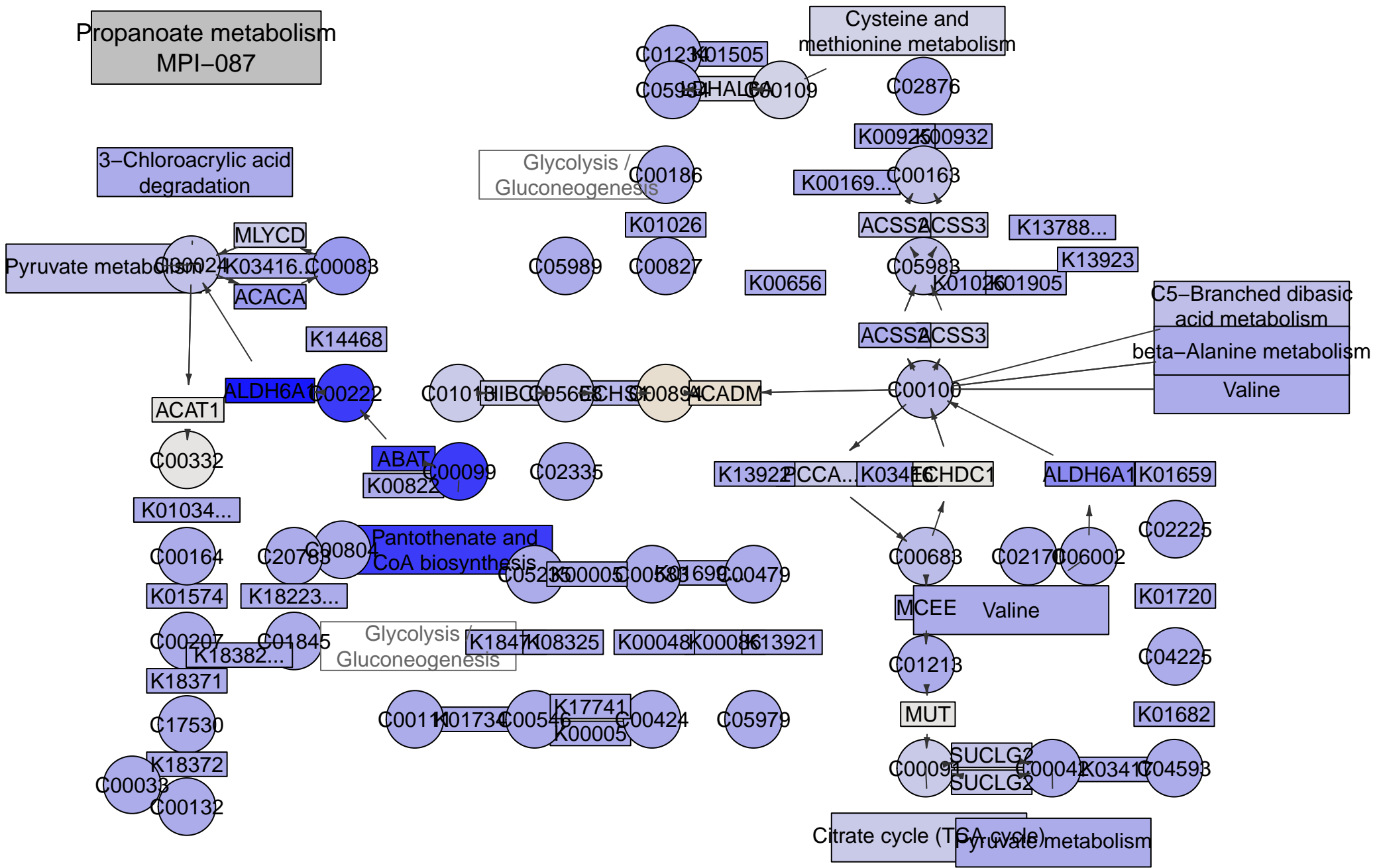


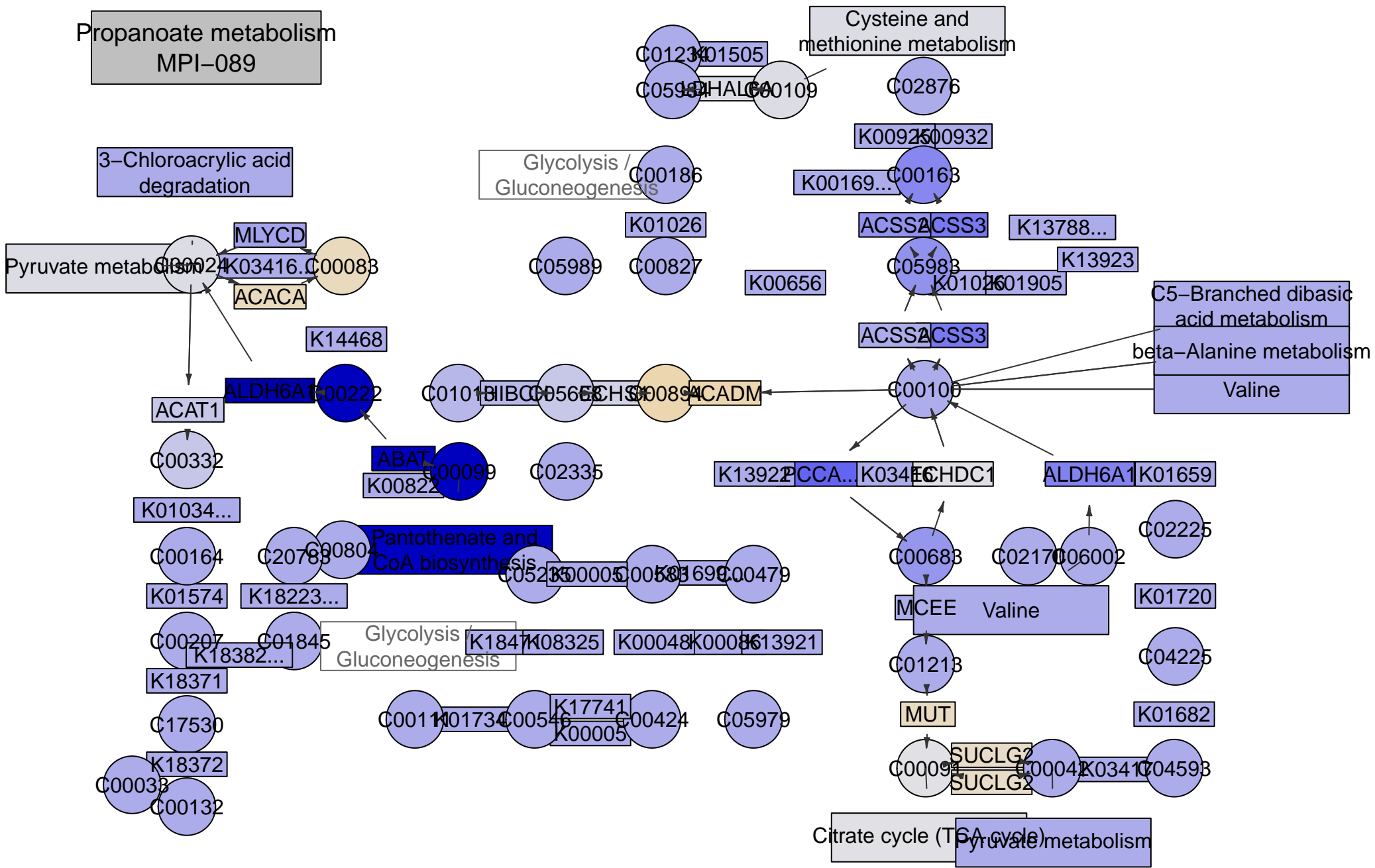


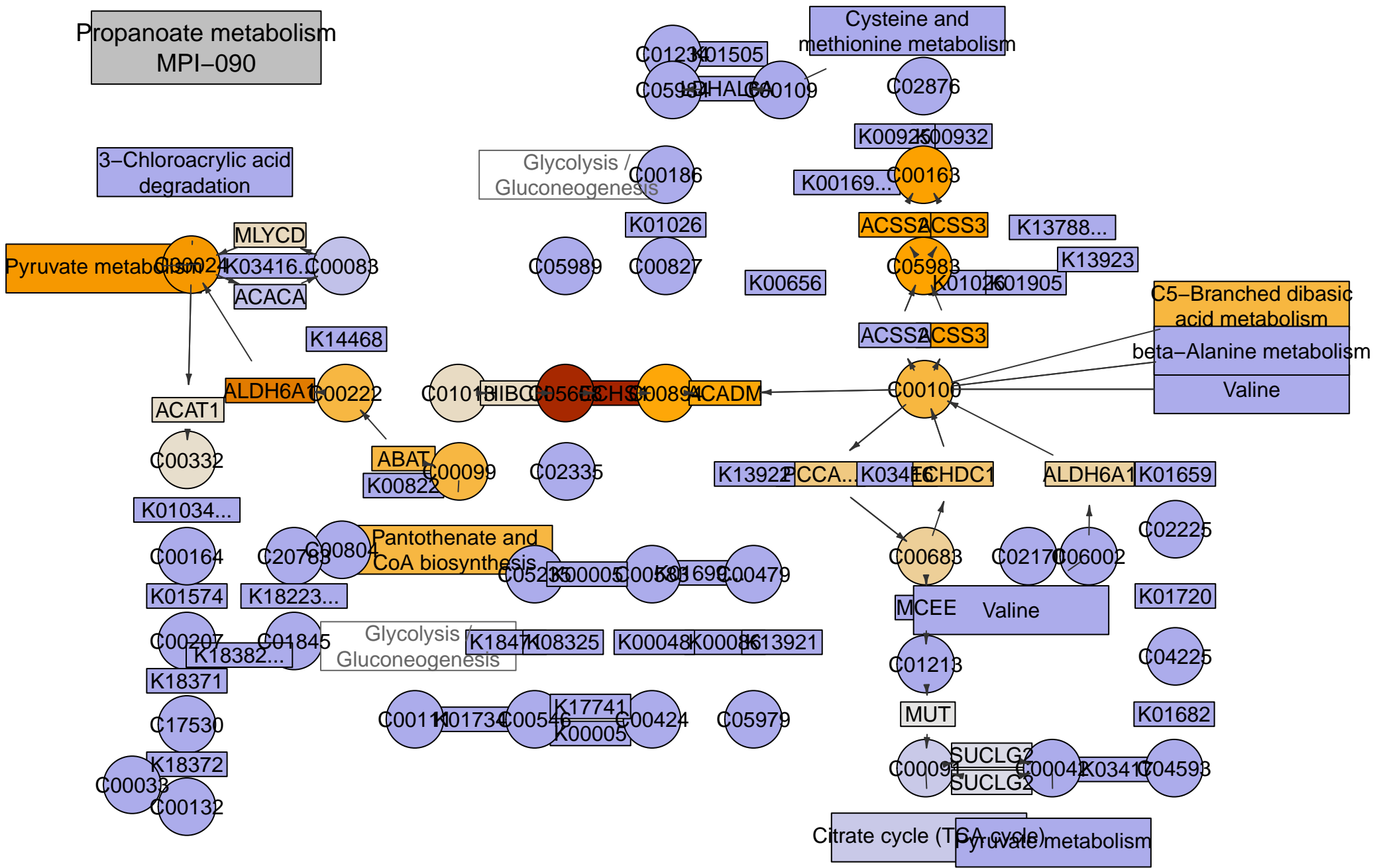


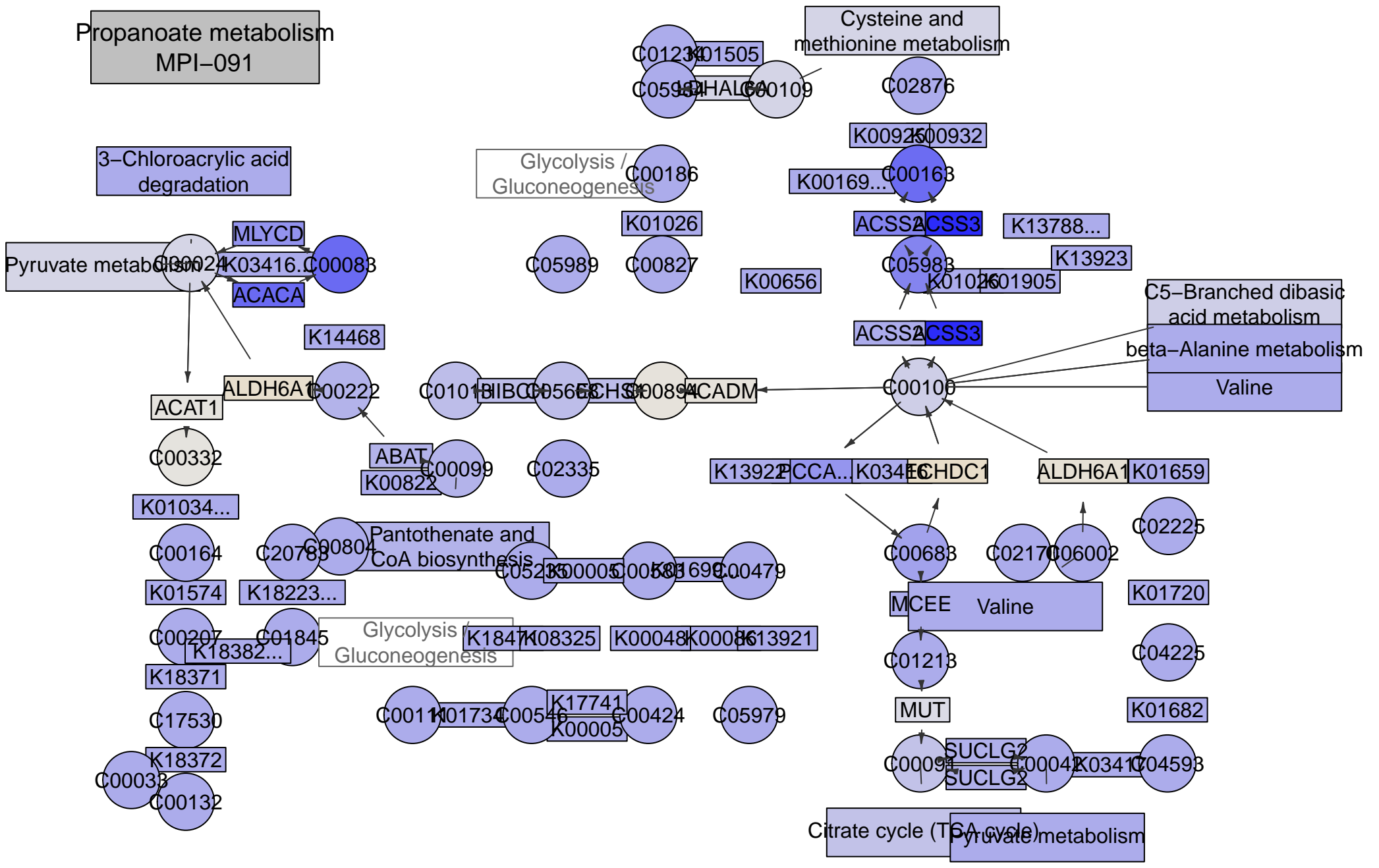


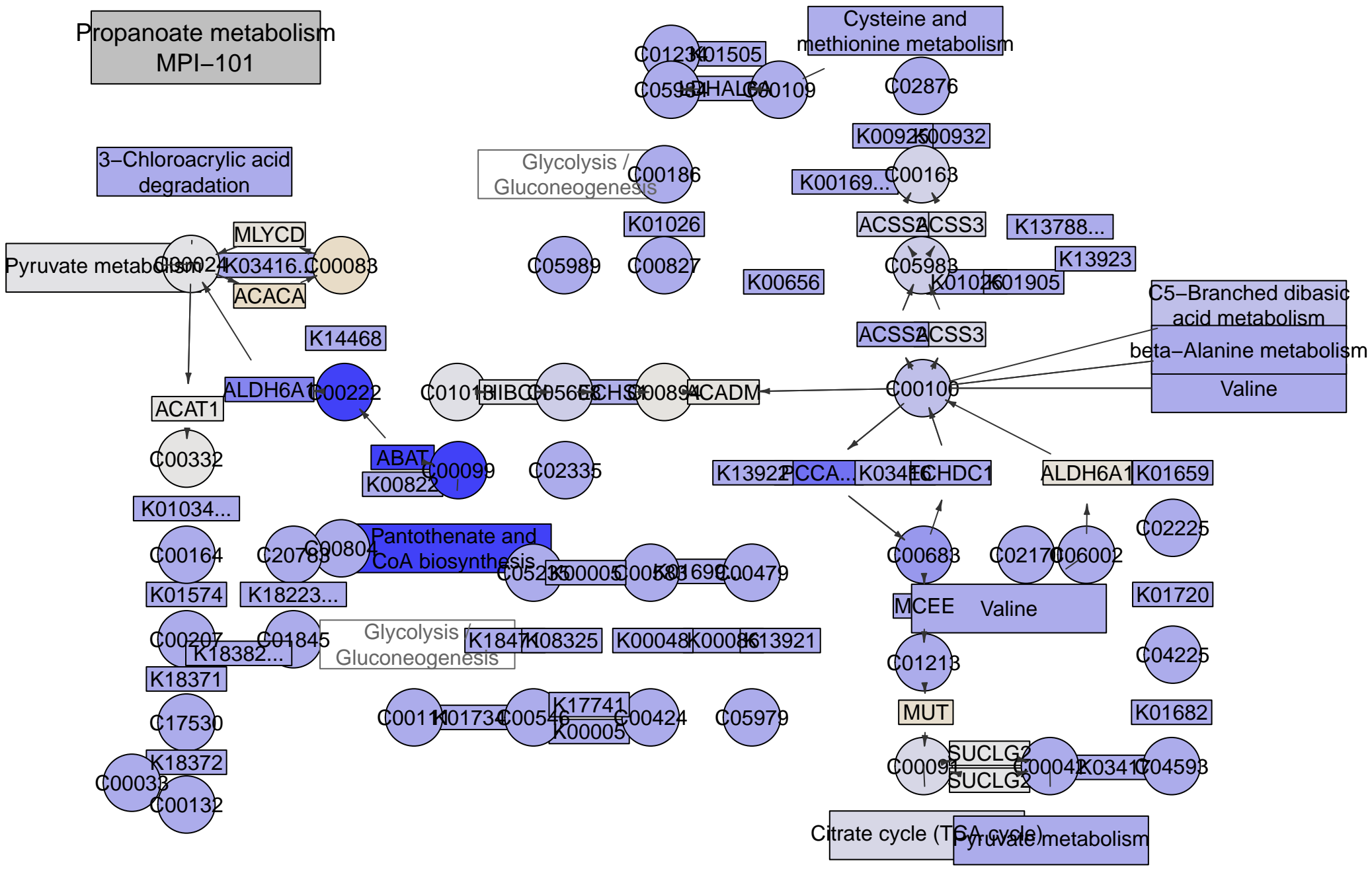


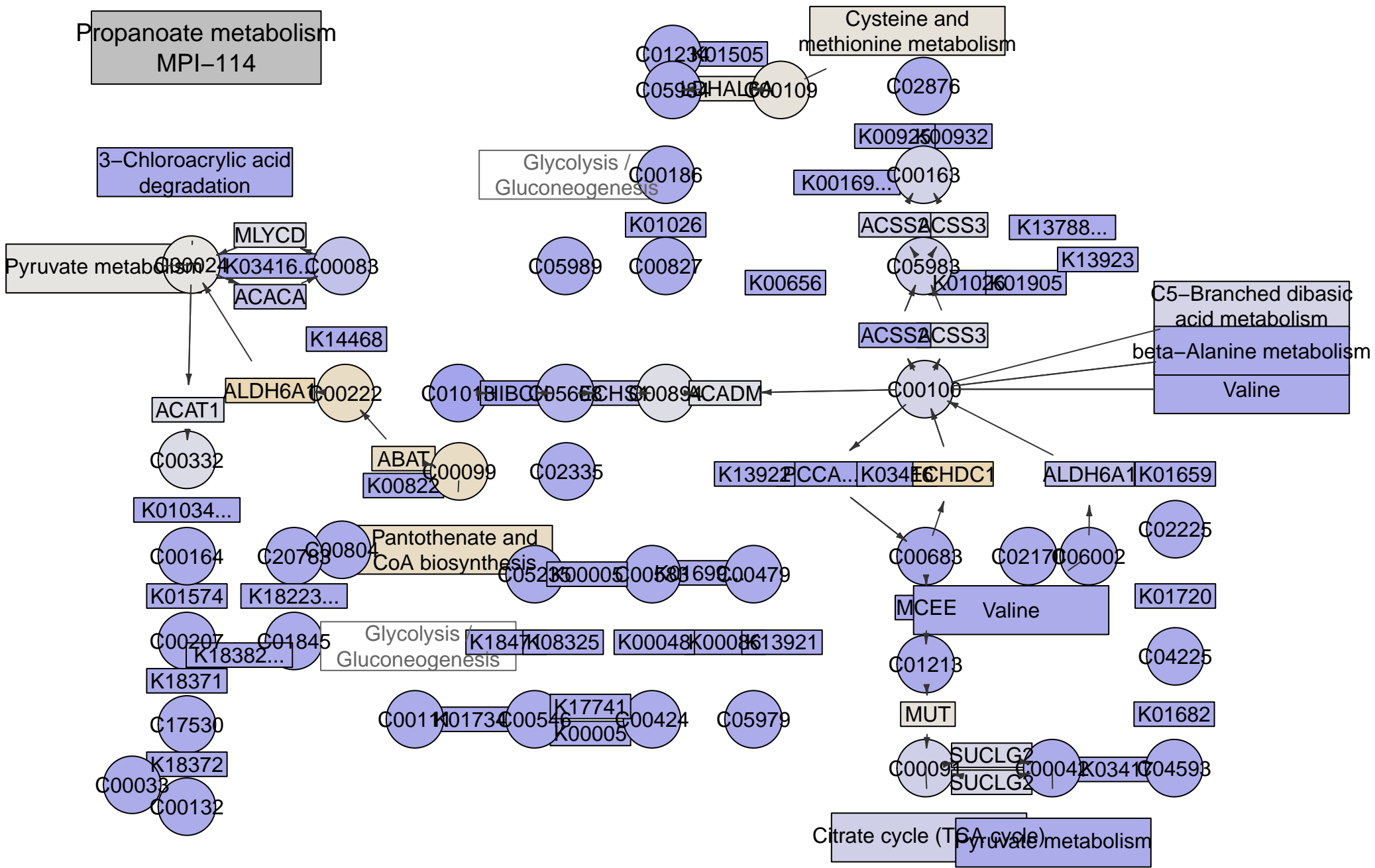


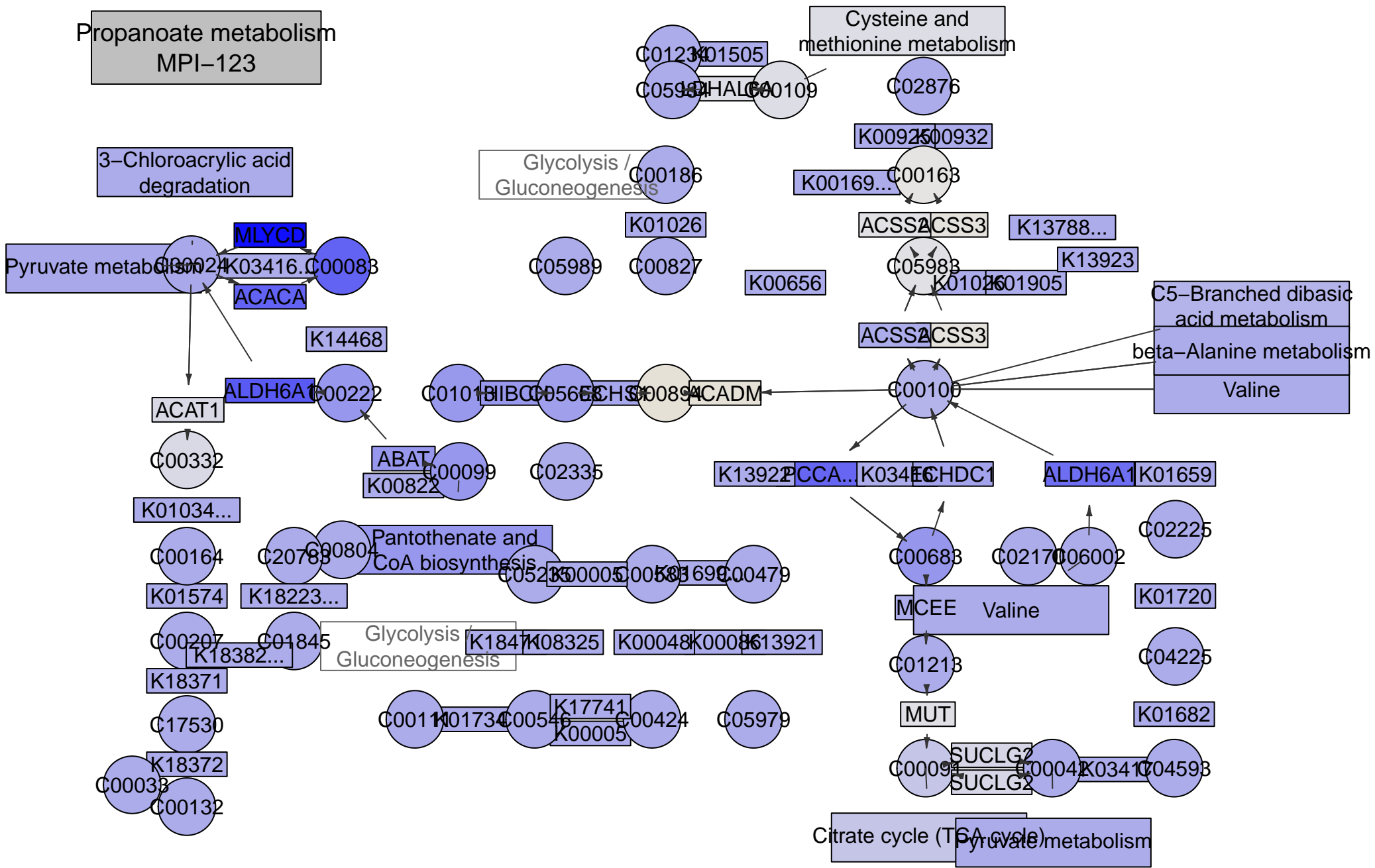


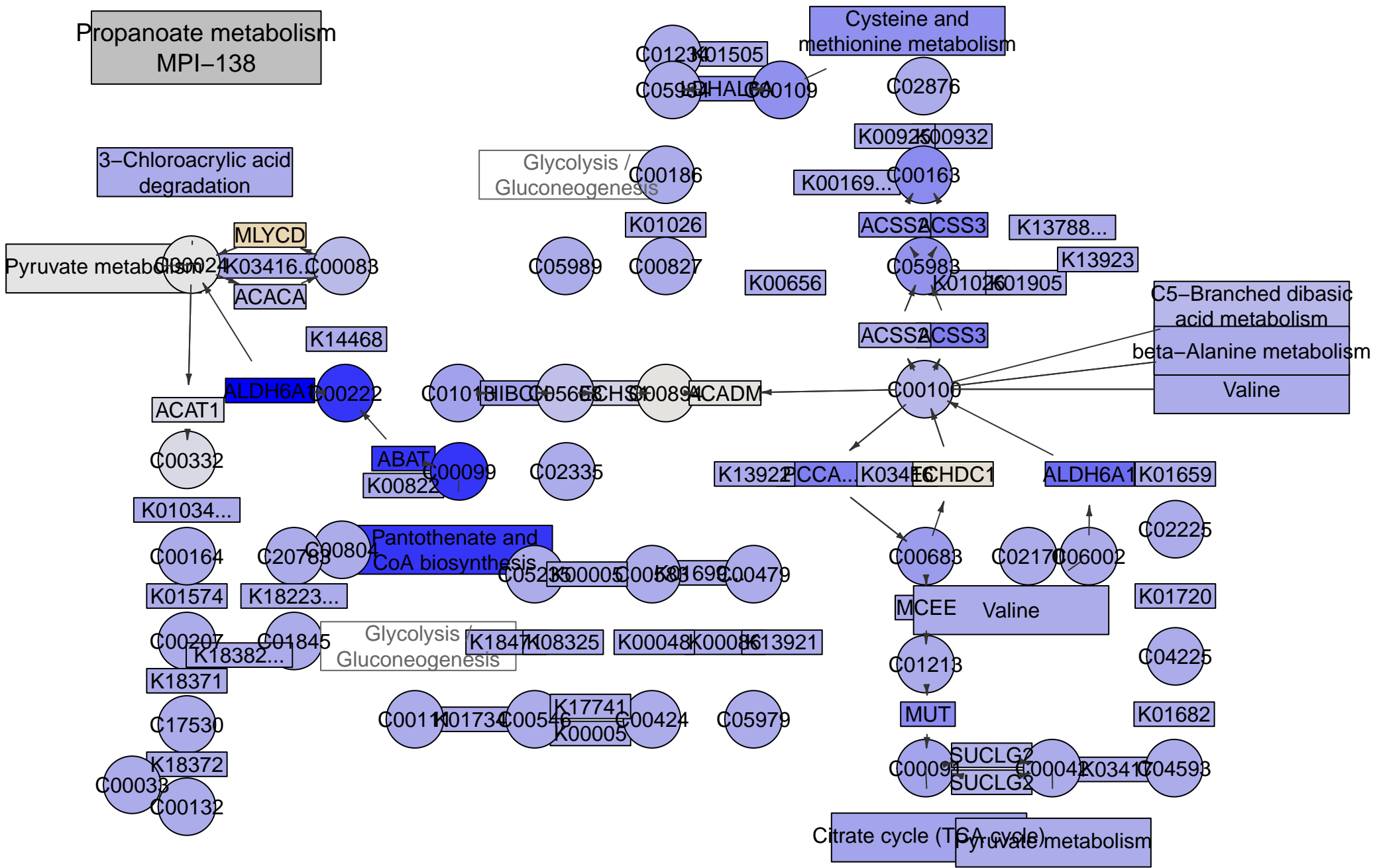


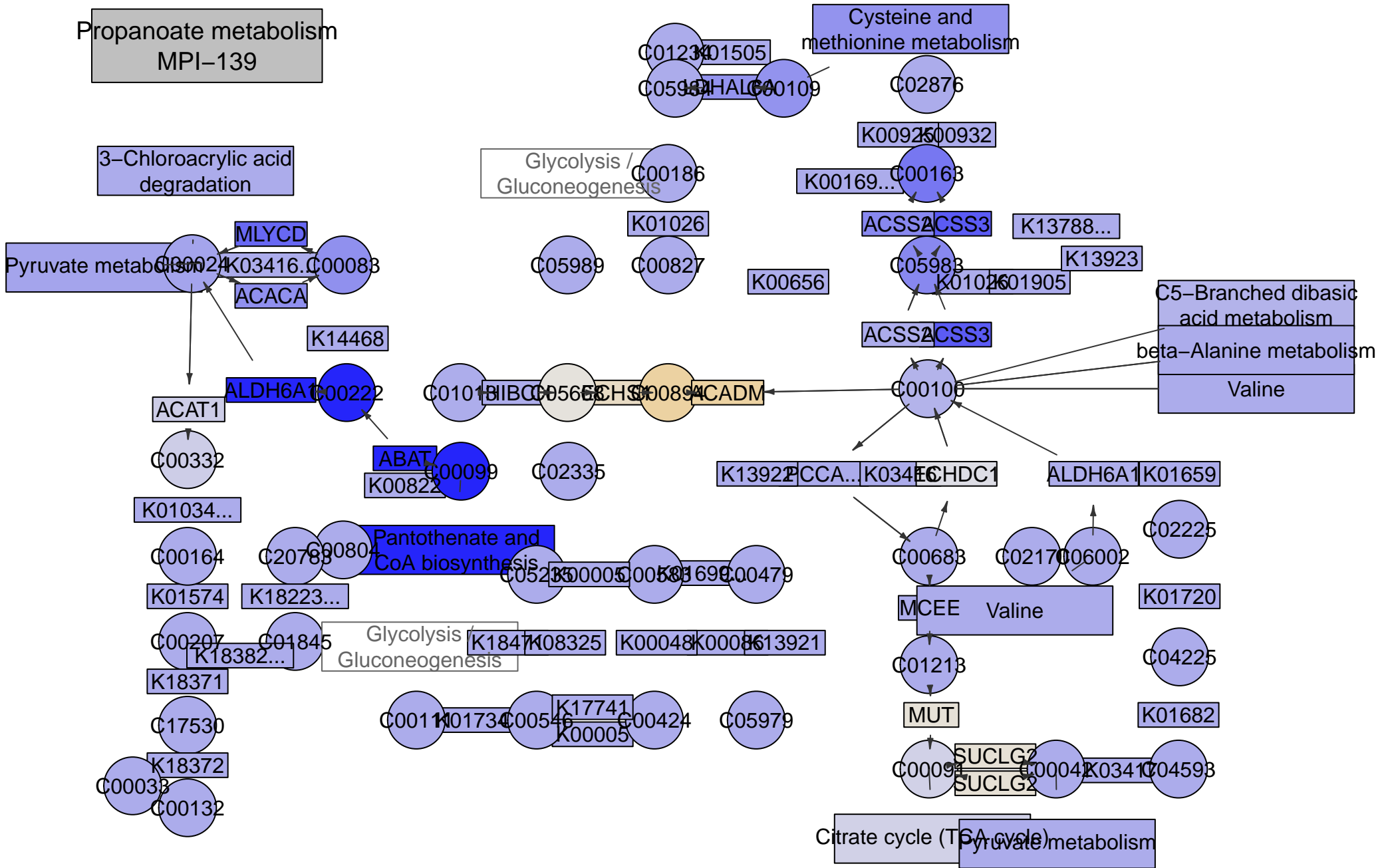


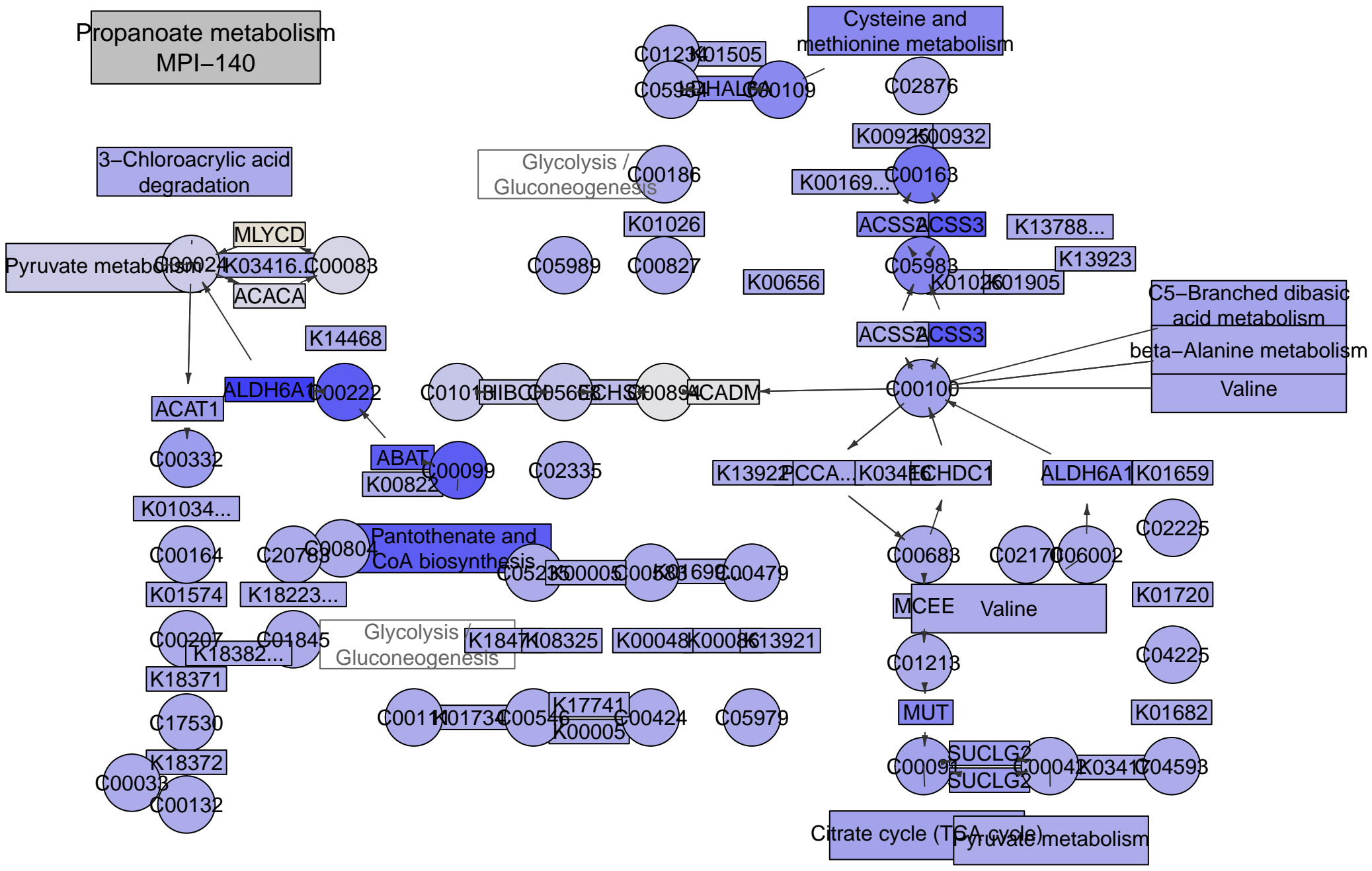


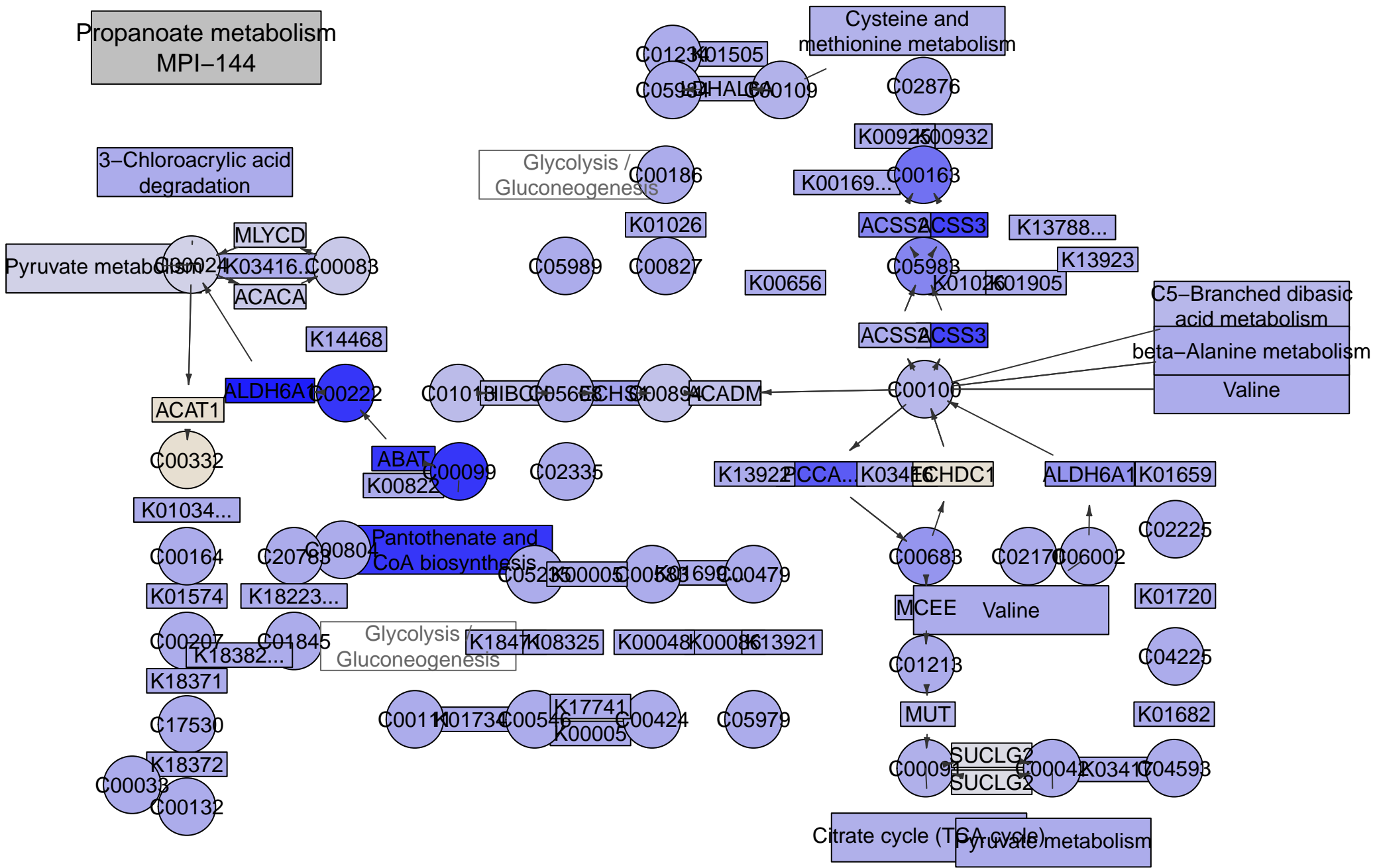


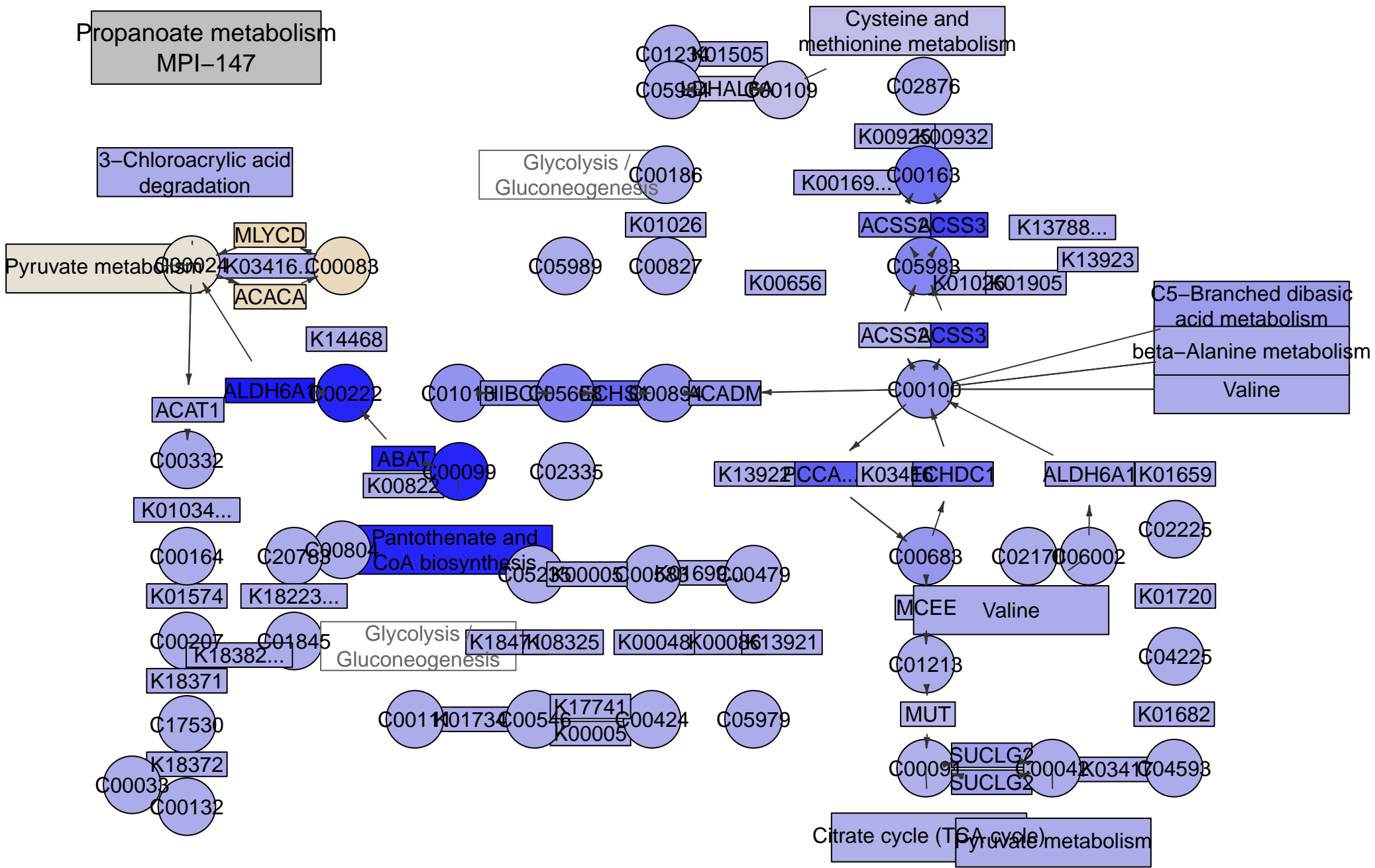


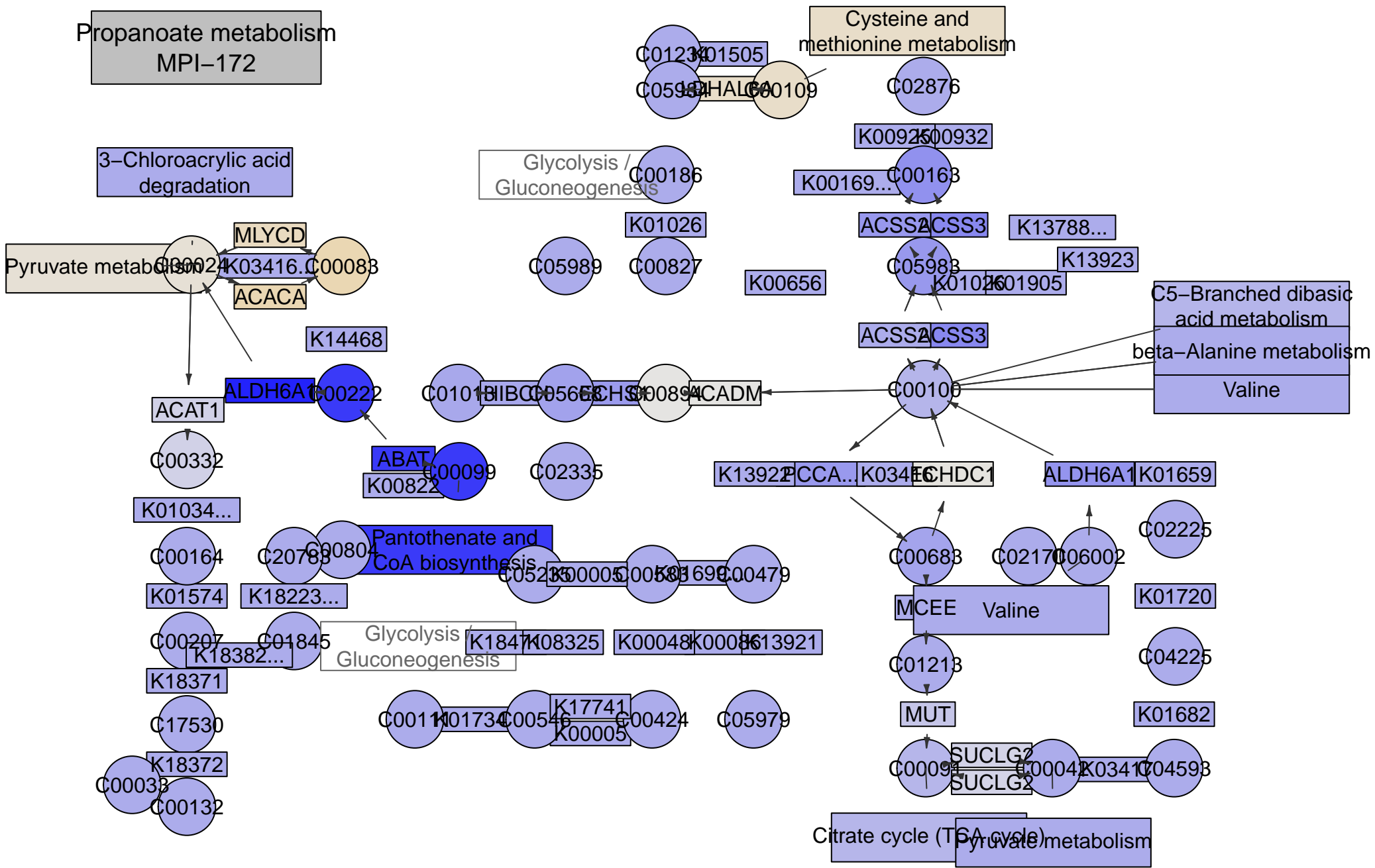


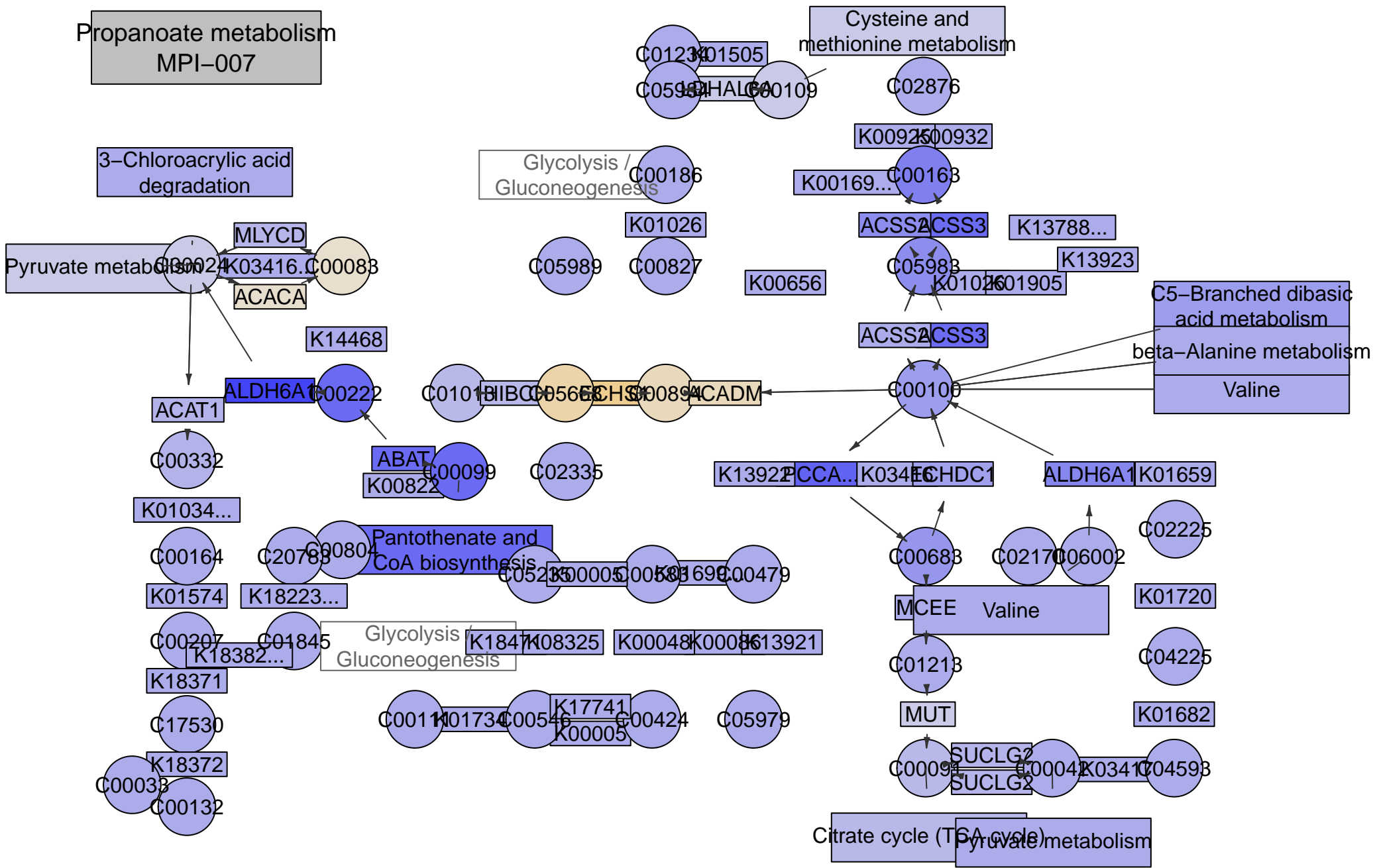








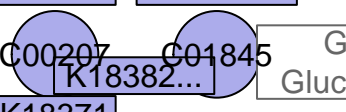
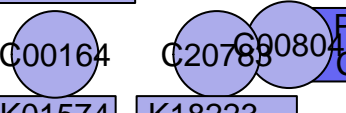
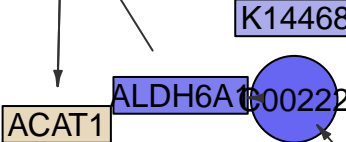
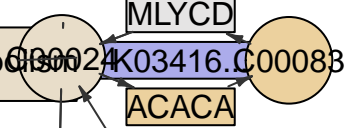




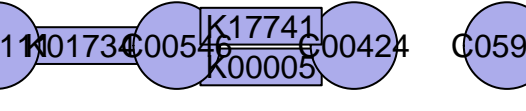
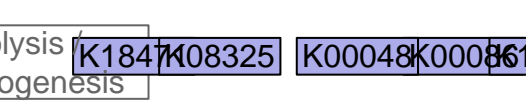
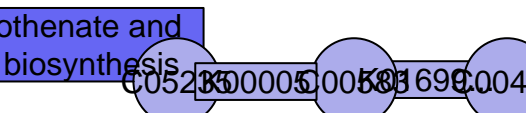
Propanoate metabolism
MPI-011

3-Chloroacrylic acid
degradation

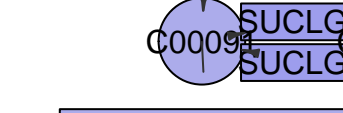
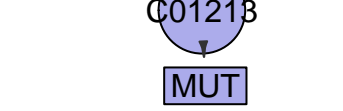
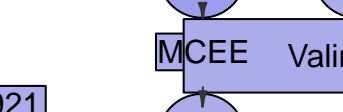
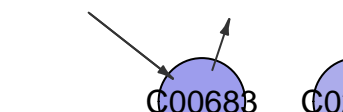
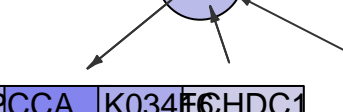
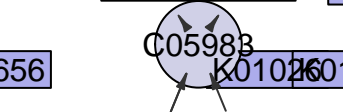
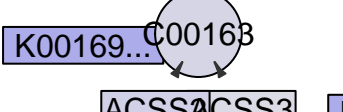
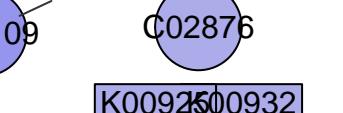
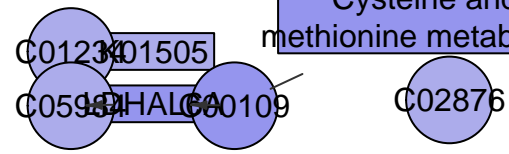
Pyruvate metabolism
G0024



Glycolysis /
Gluconeogenesis

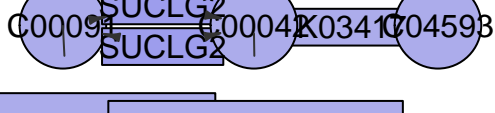
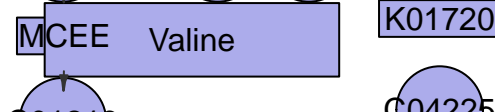
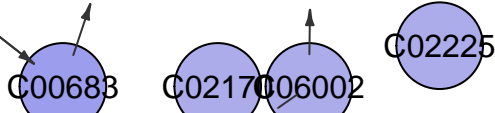


Cysteine and
methionine metabolism

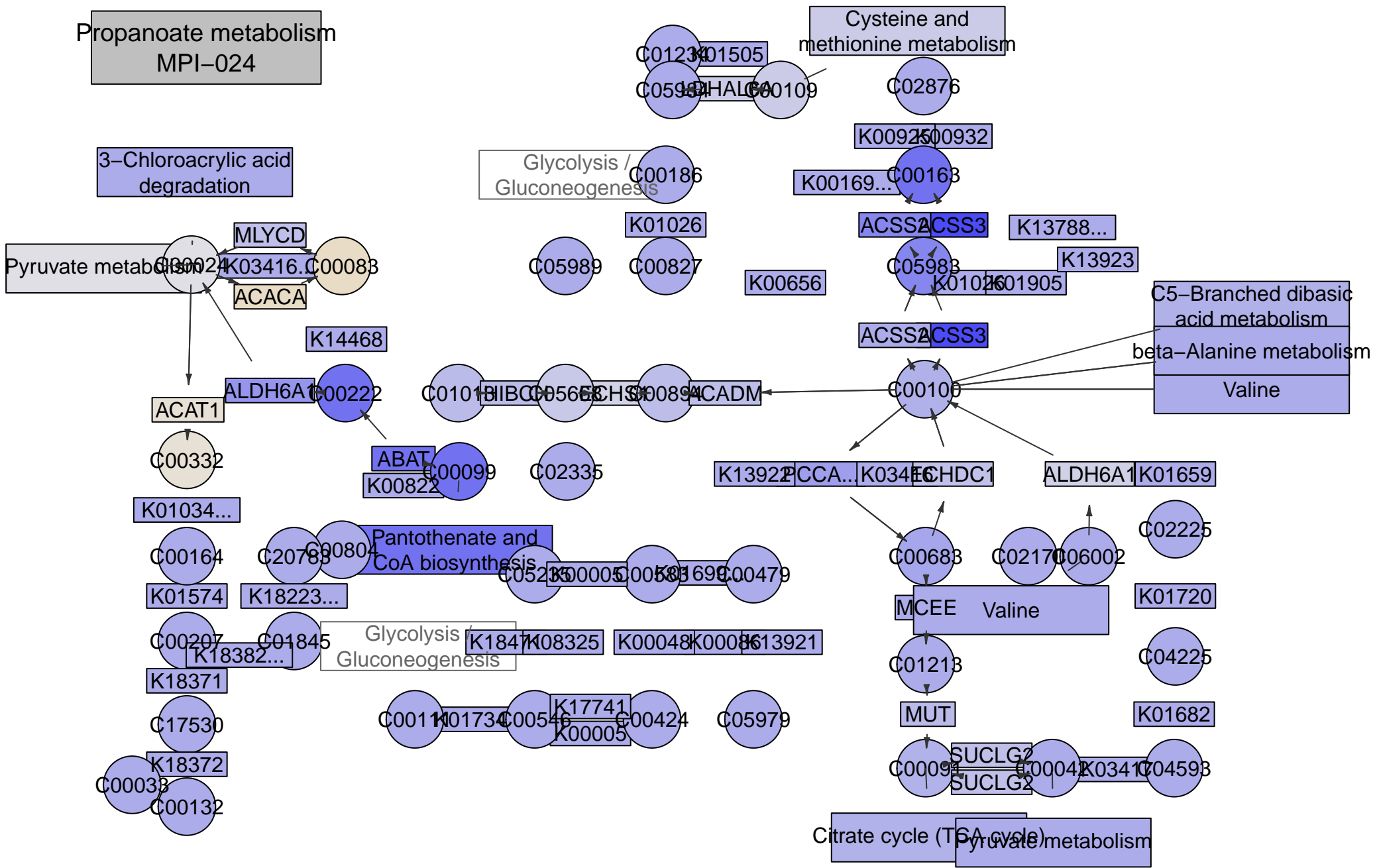


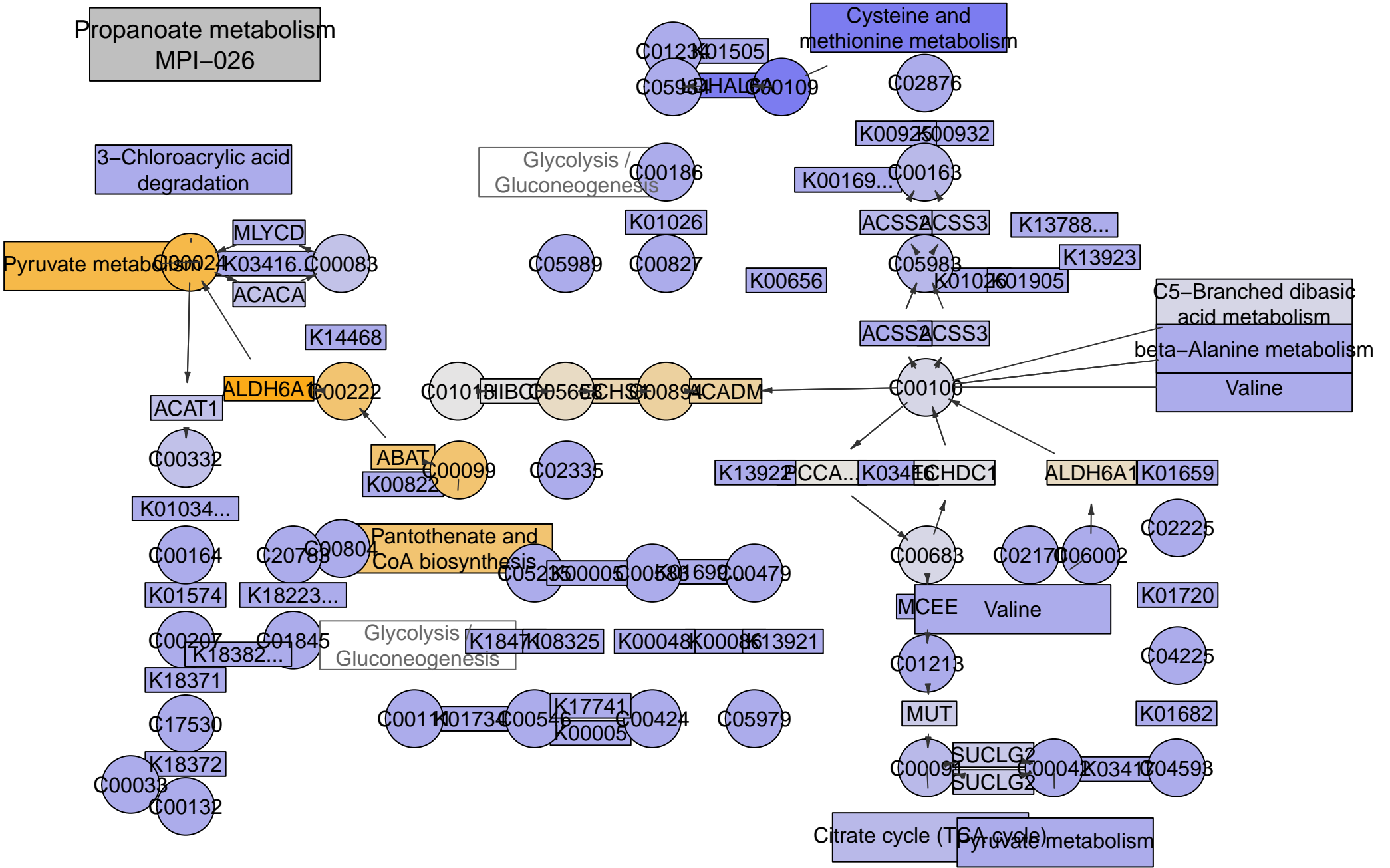
Citrate cycle (TCA cycle)
pyruvate metabolism

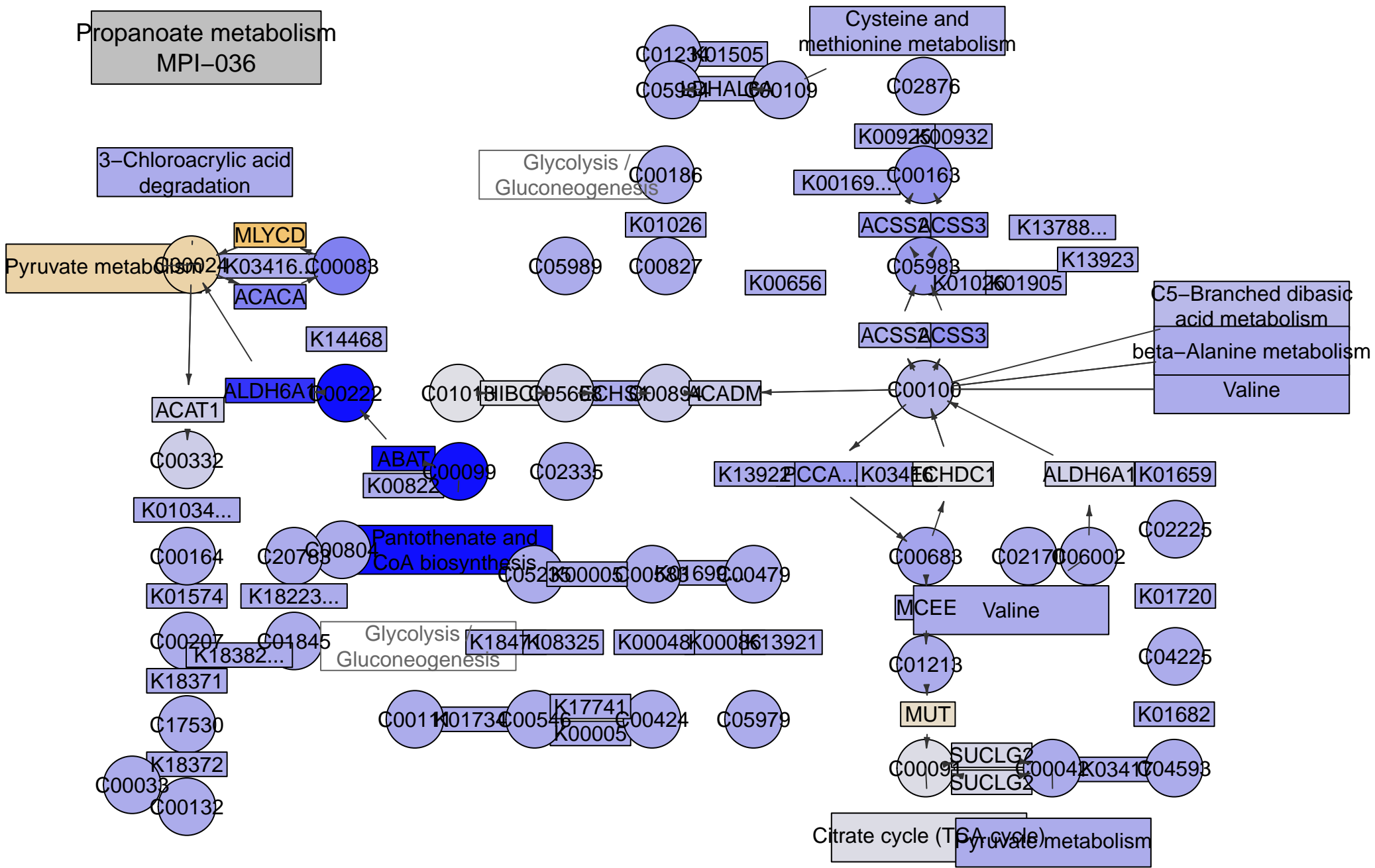
C5-Branched dibasic
acid metabolism
beta-Alanine metabolism
Valine

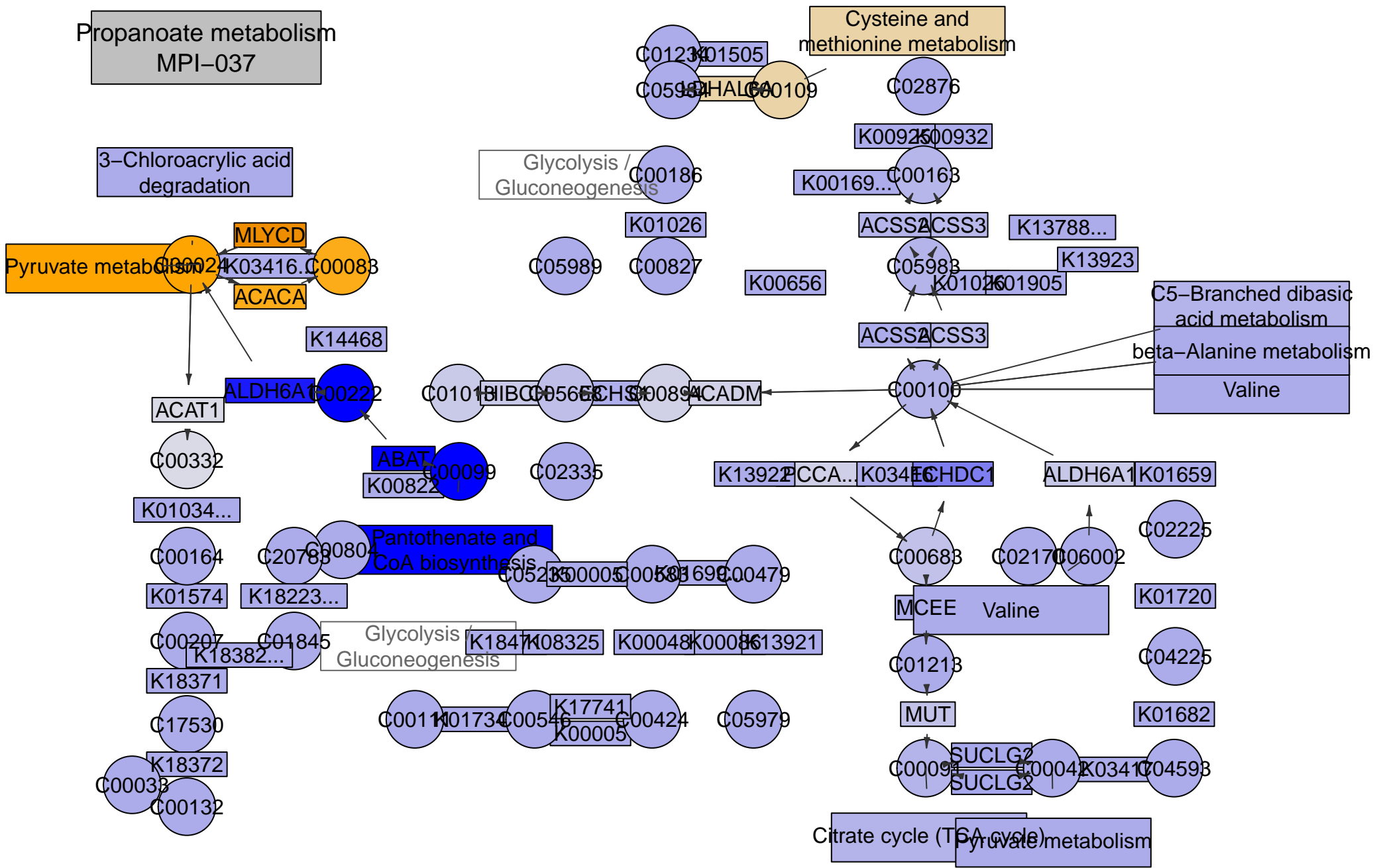


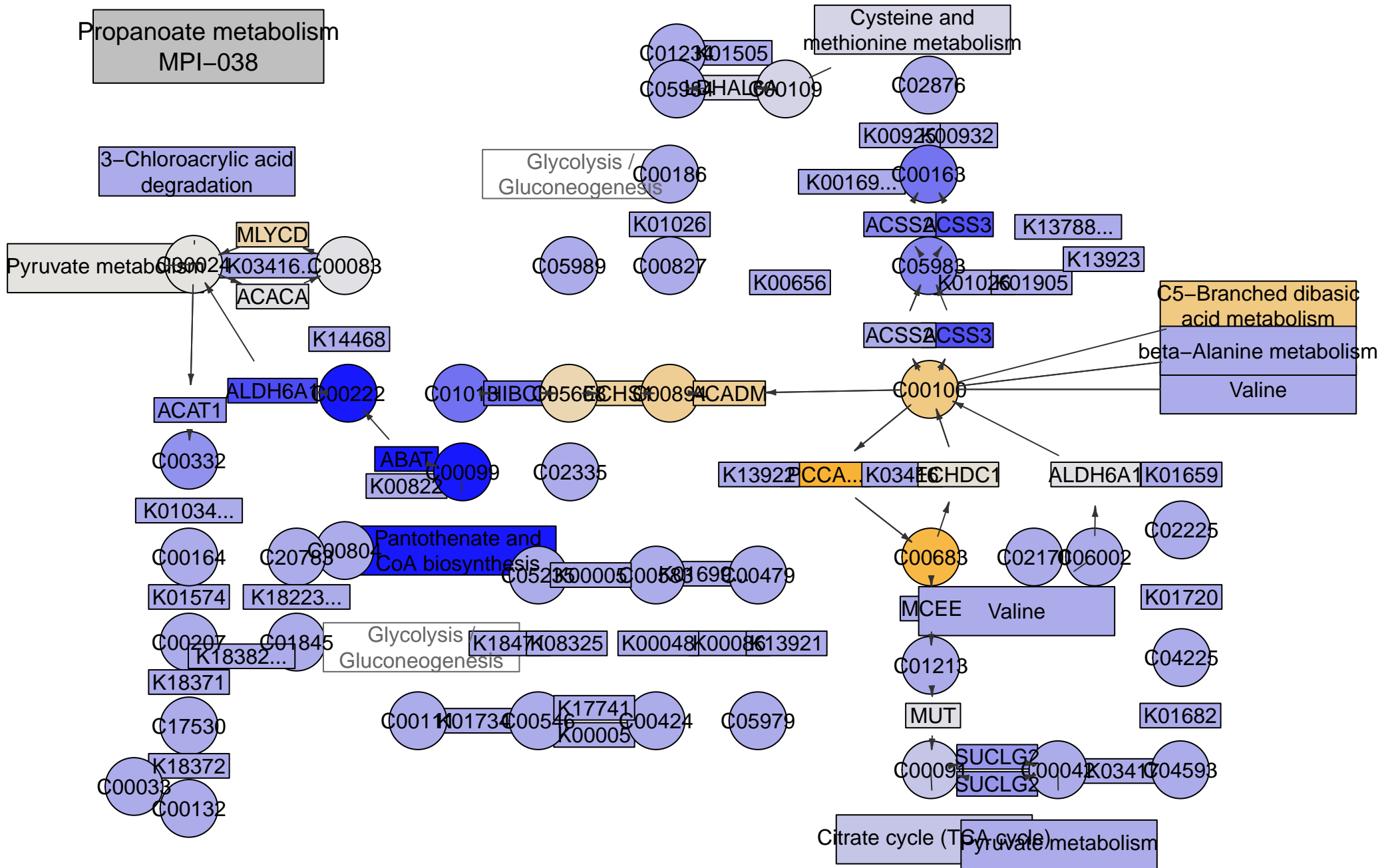
Citrate cycle (TCA cycle)
pyruvate metabolism

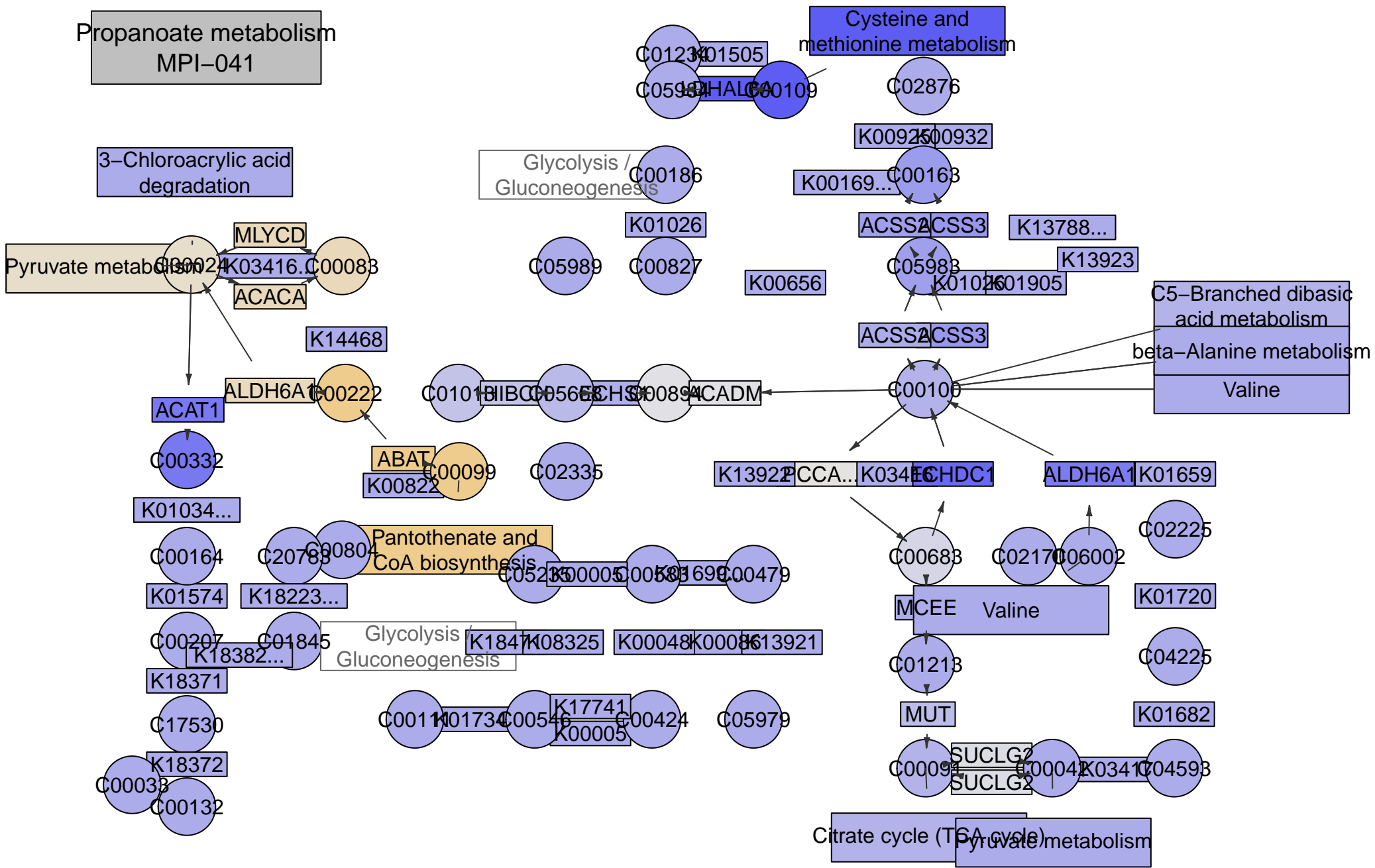


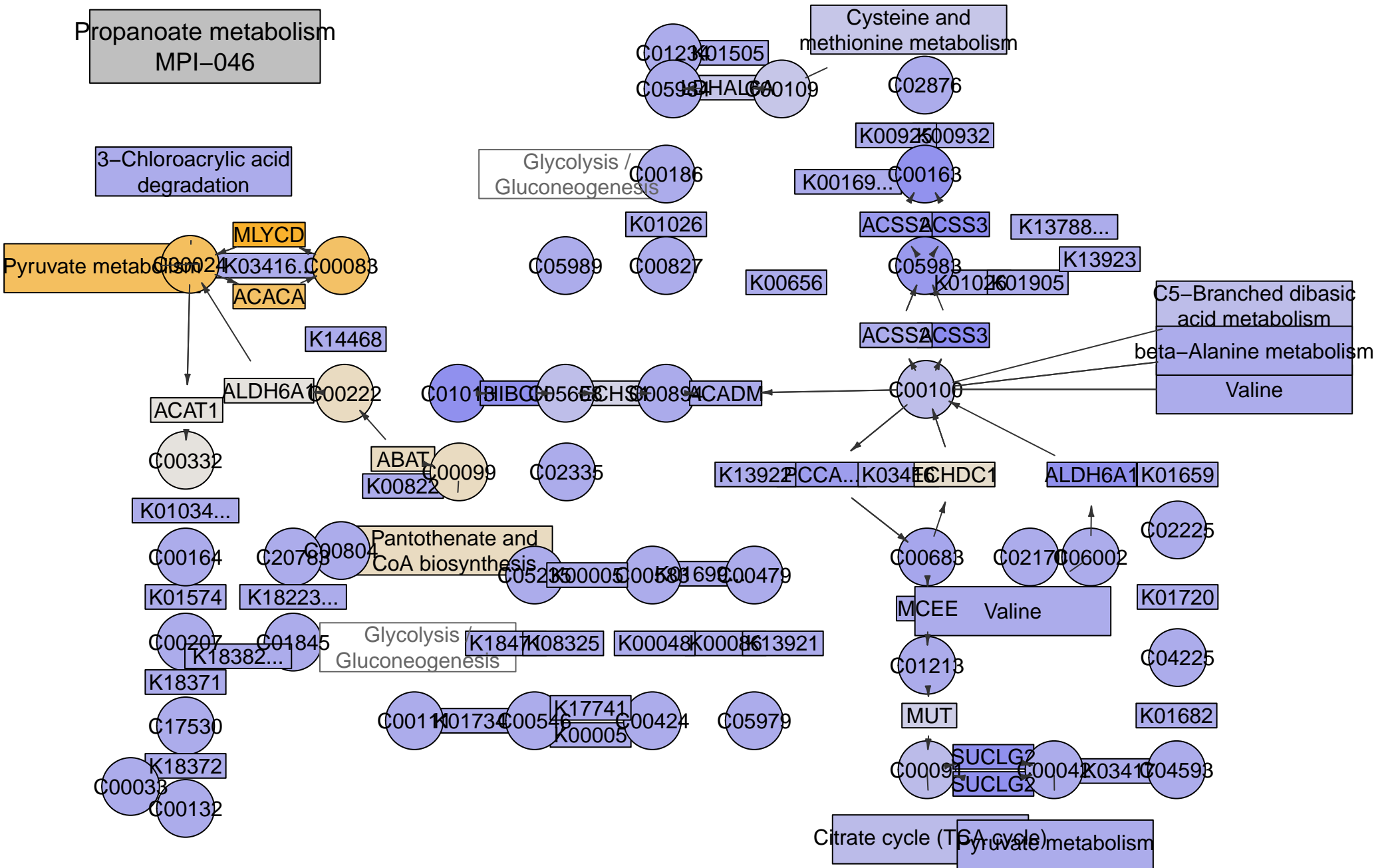


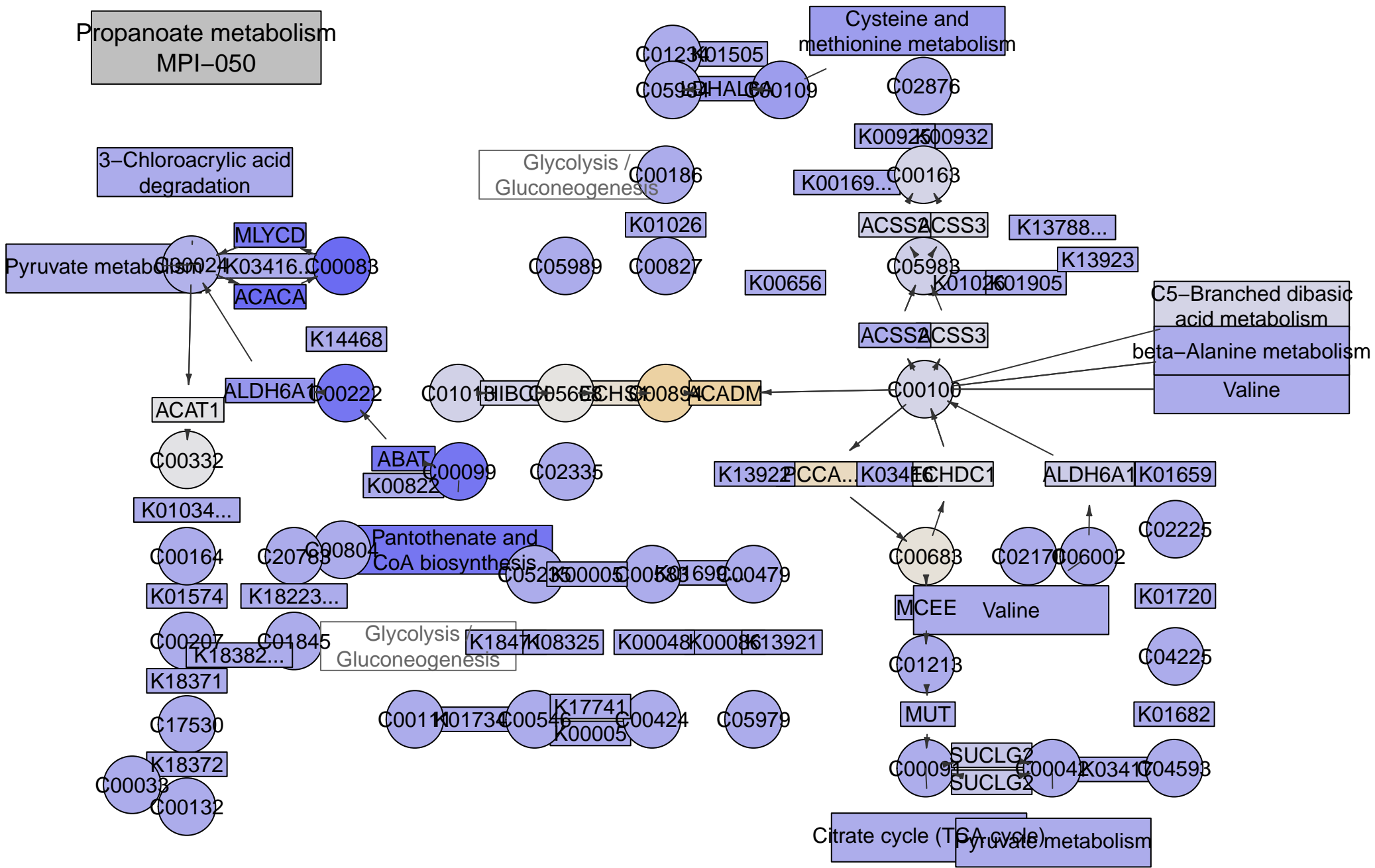


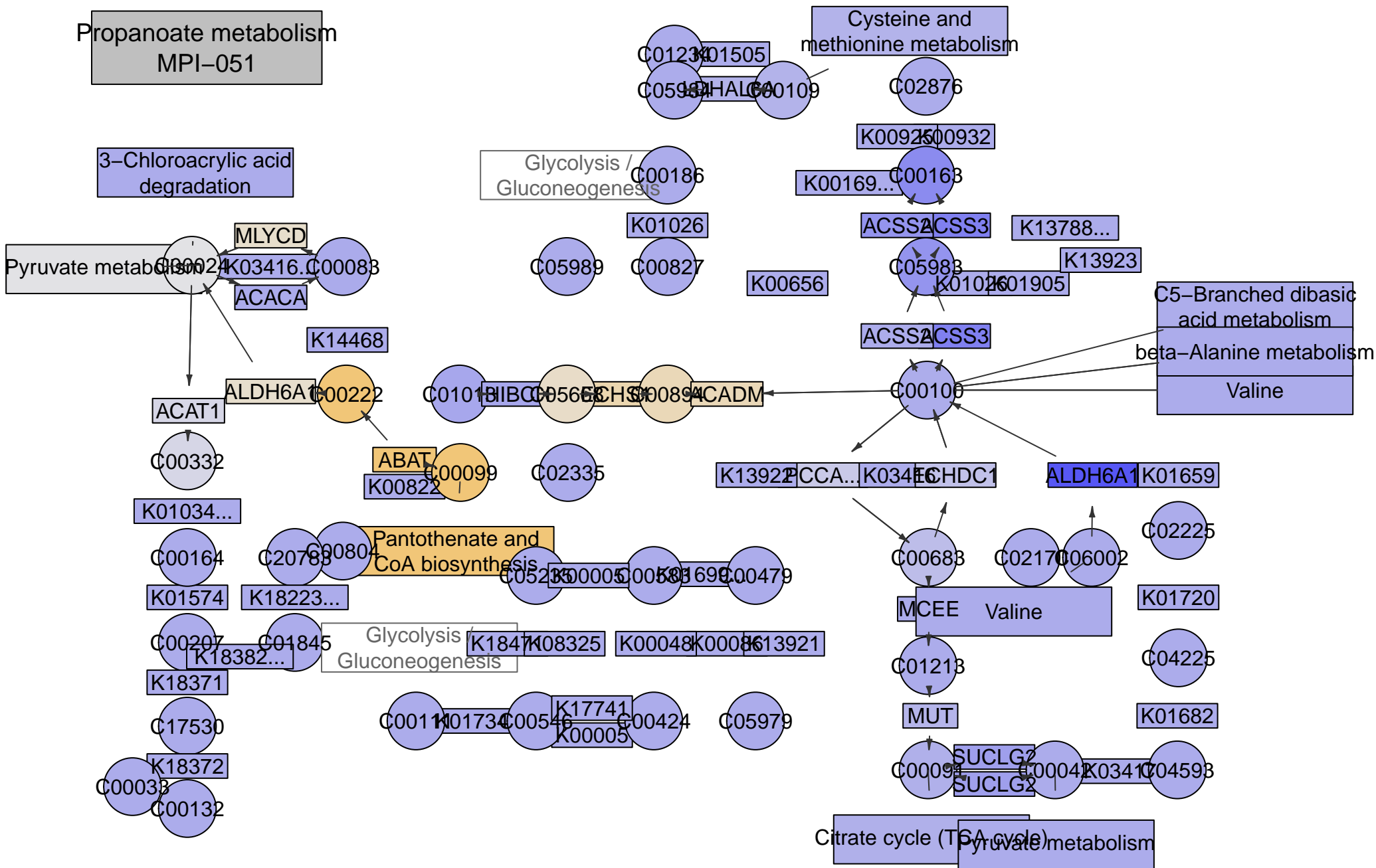


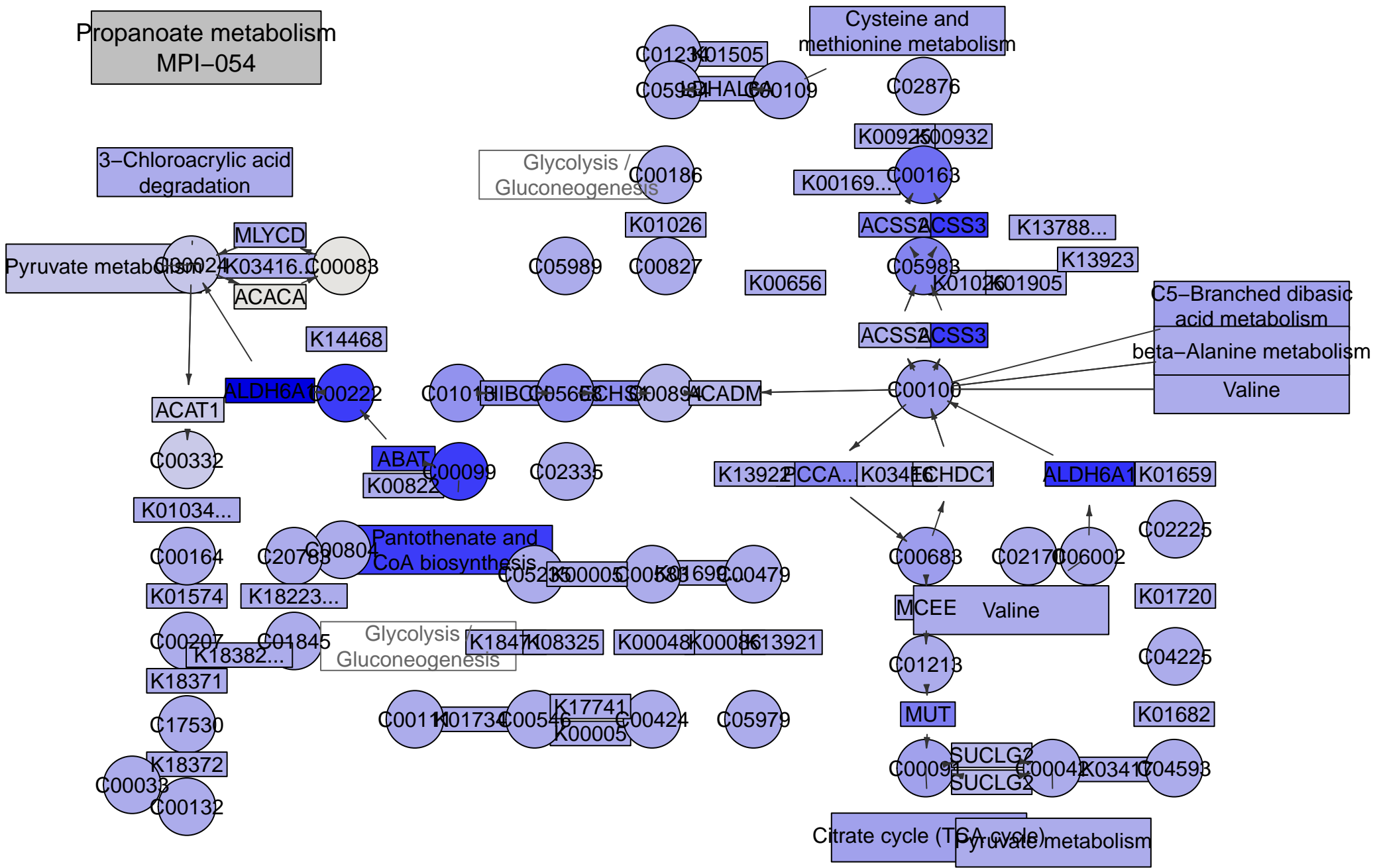


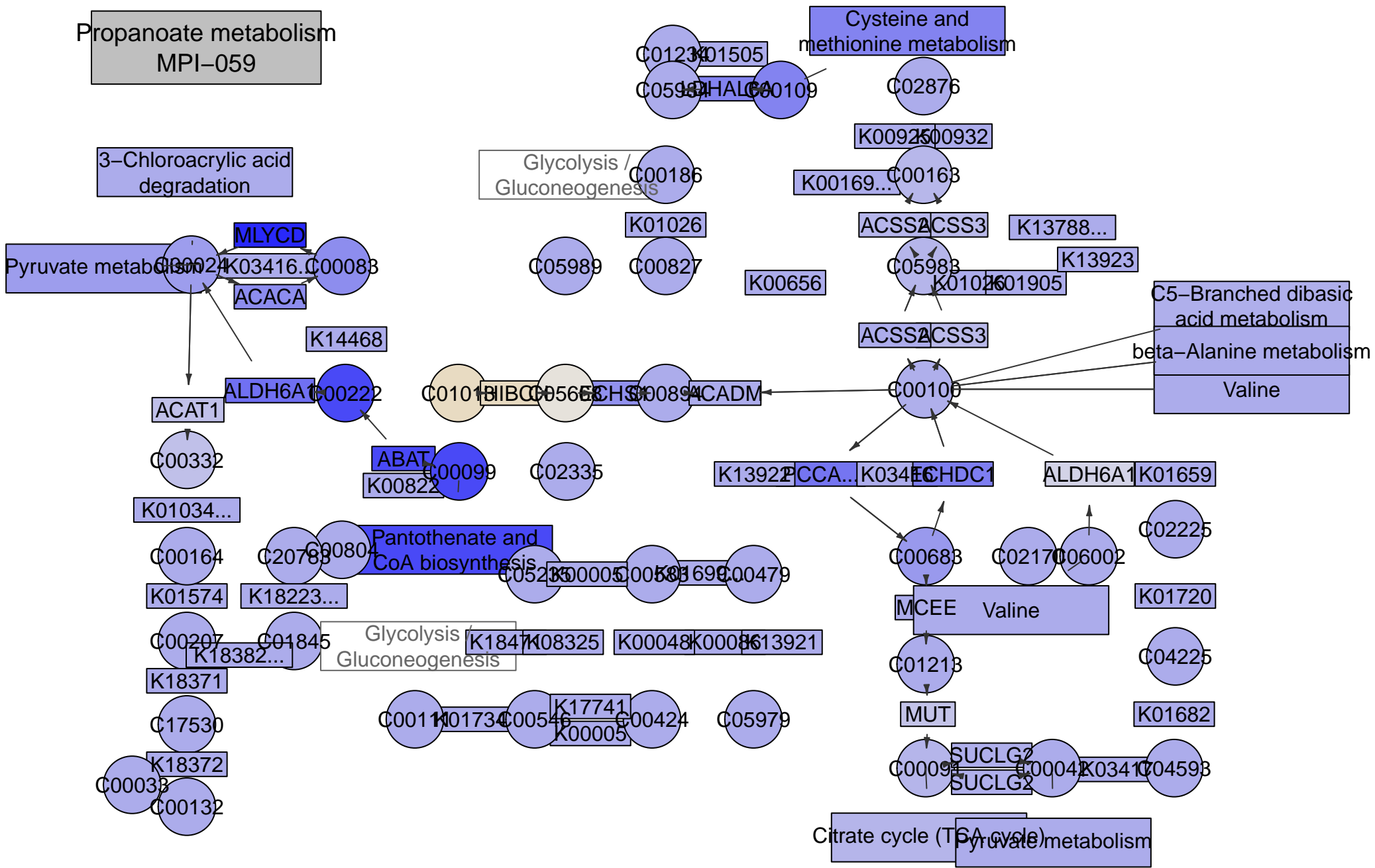


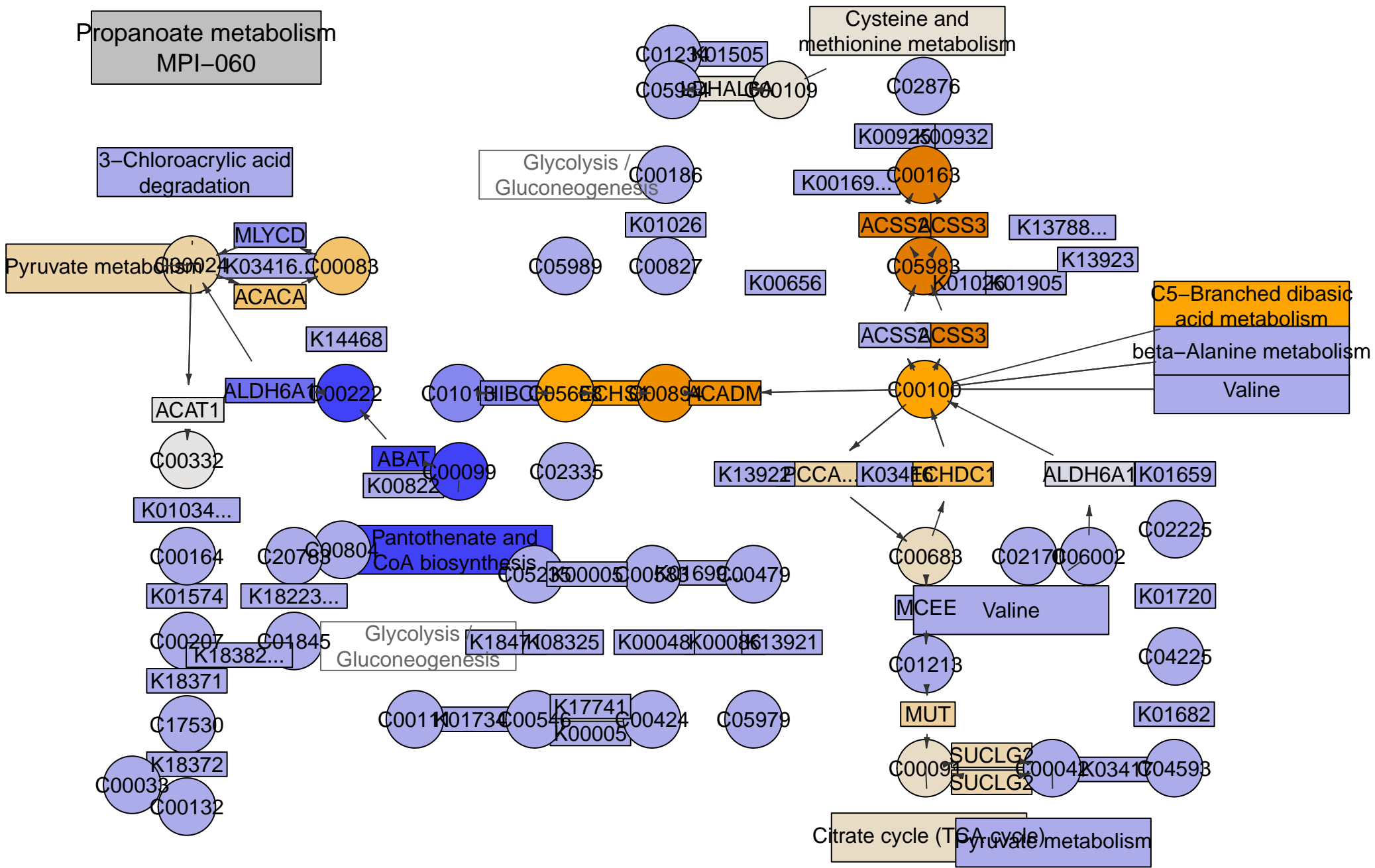


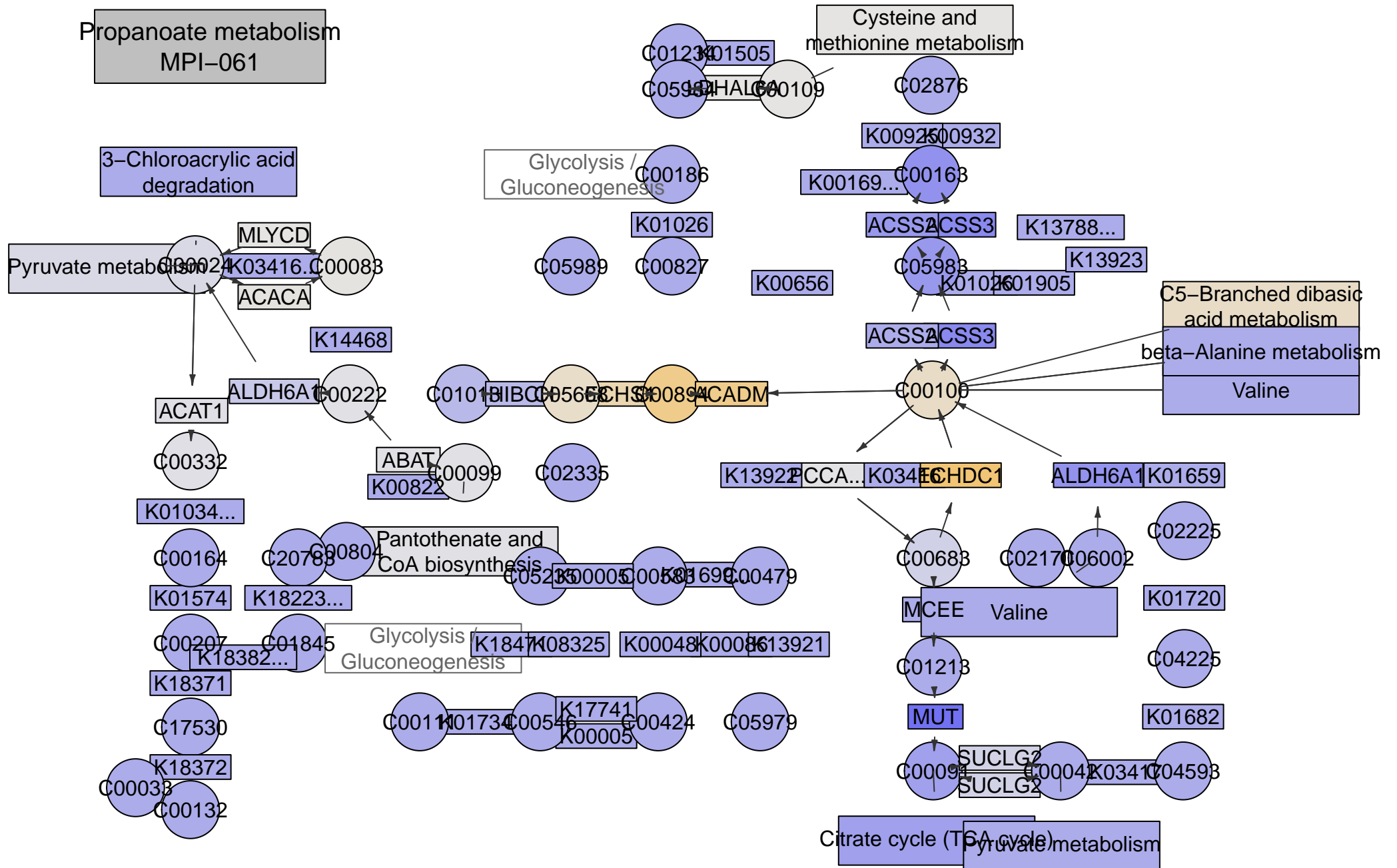


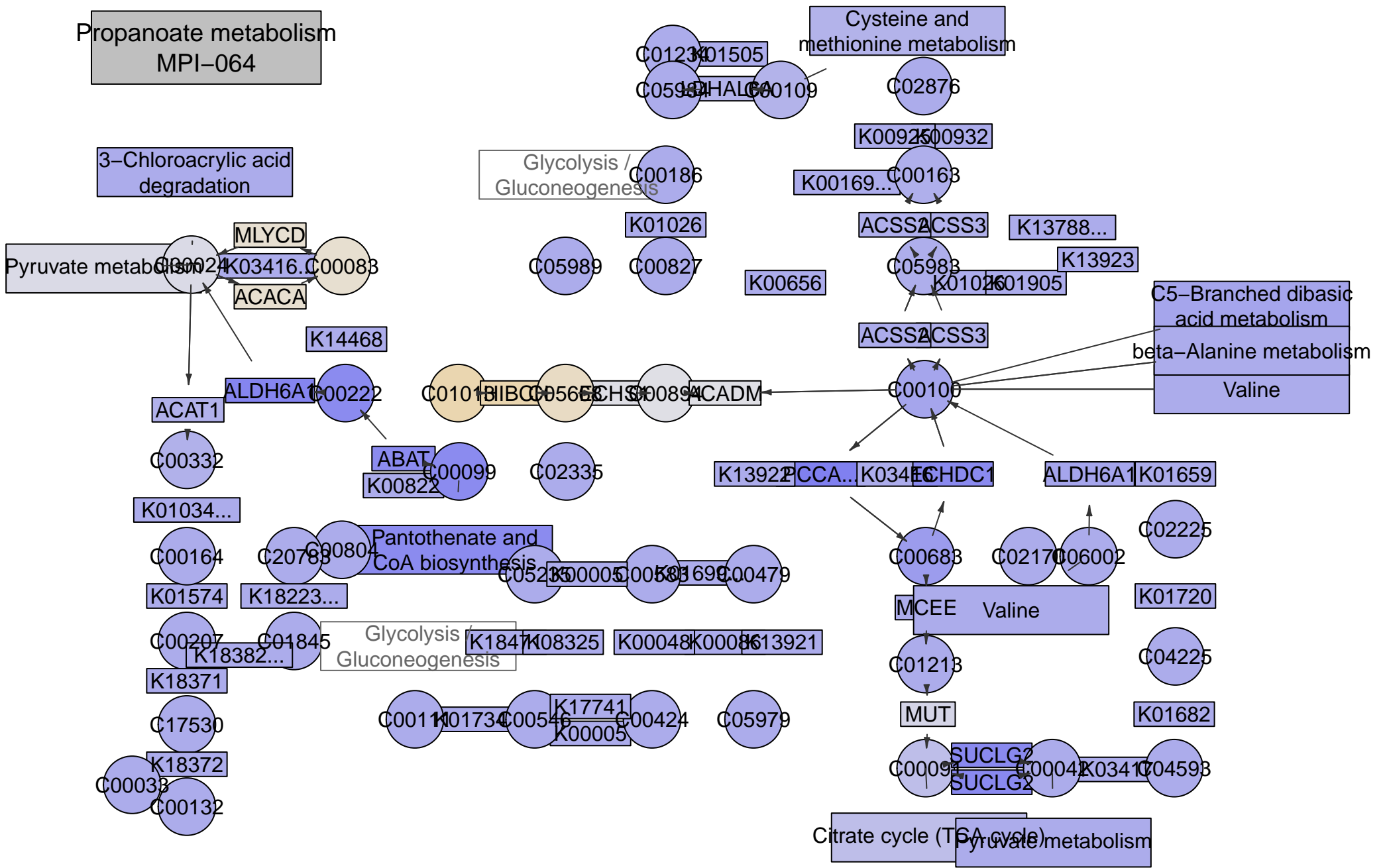


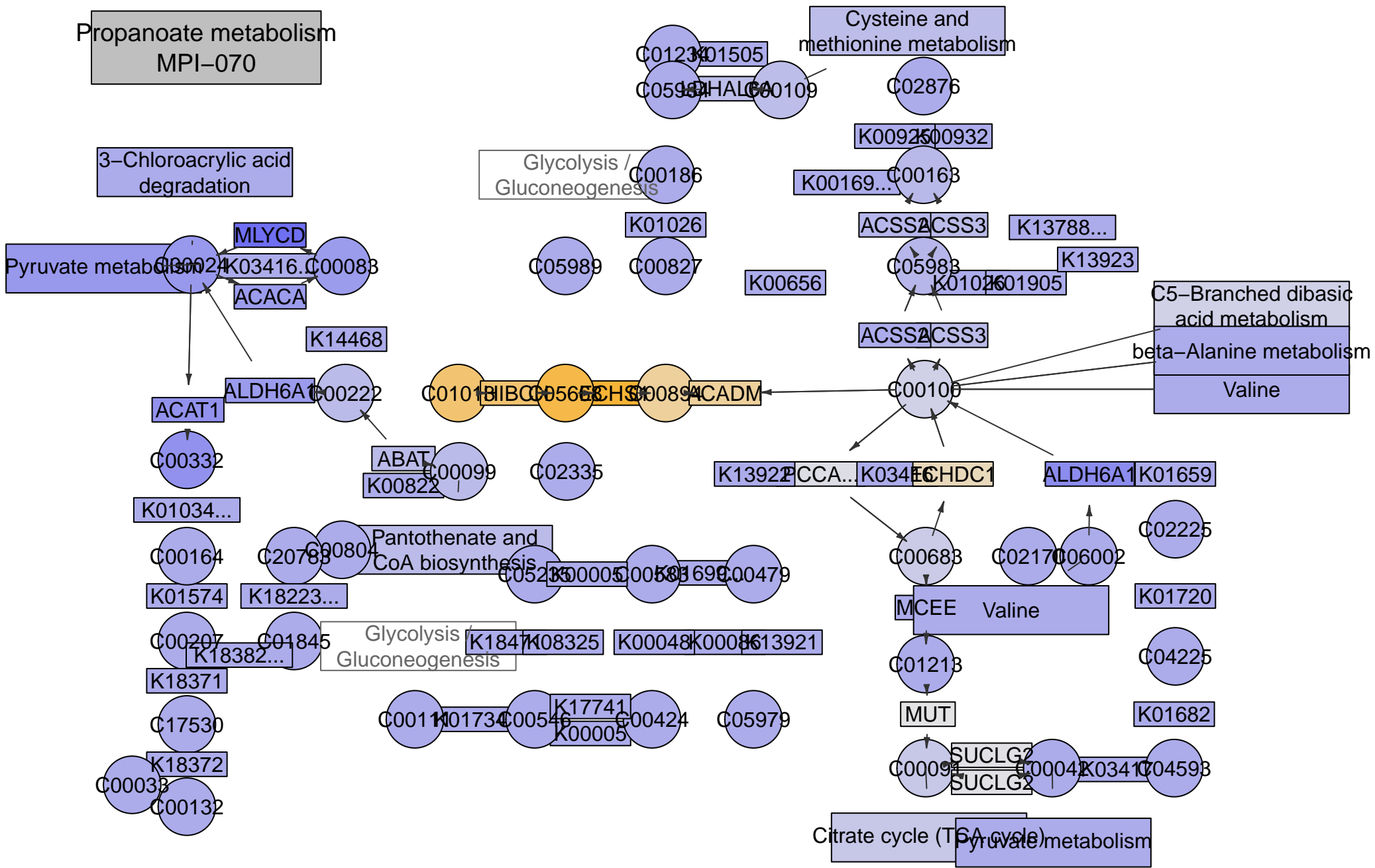


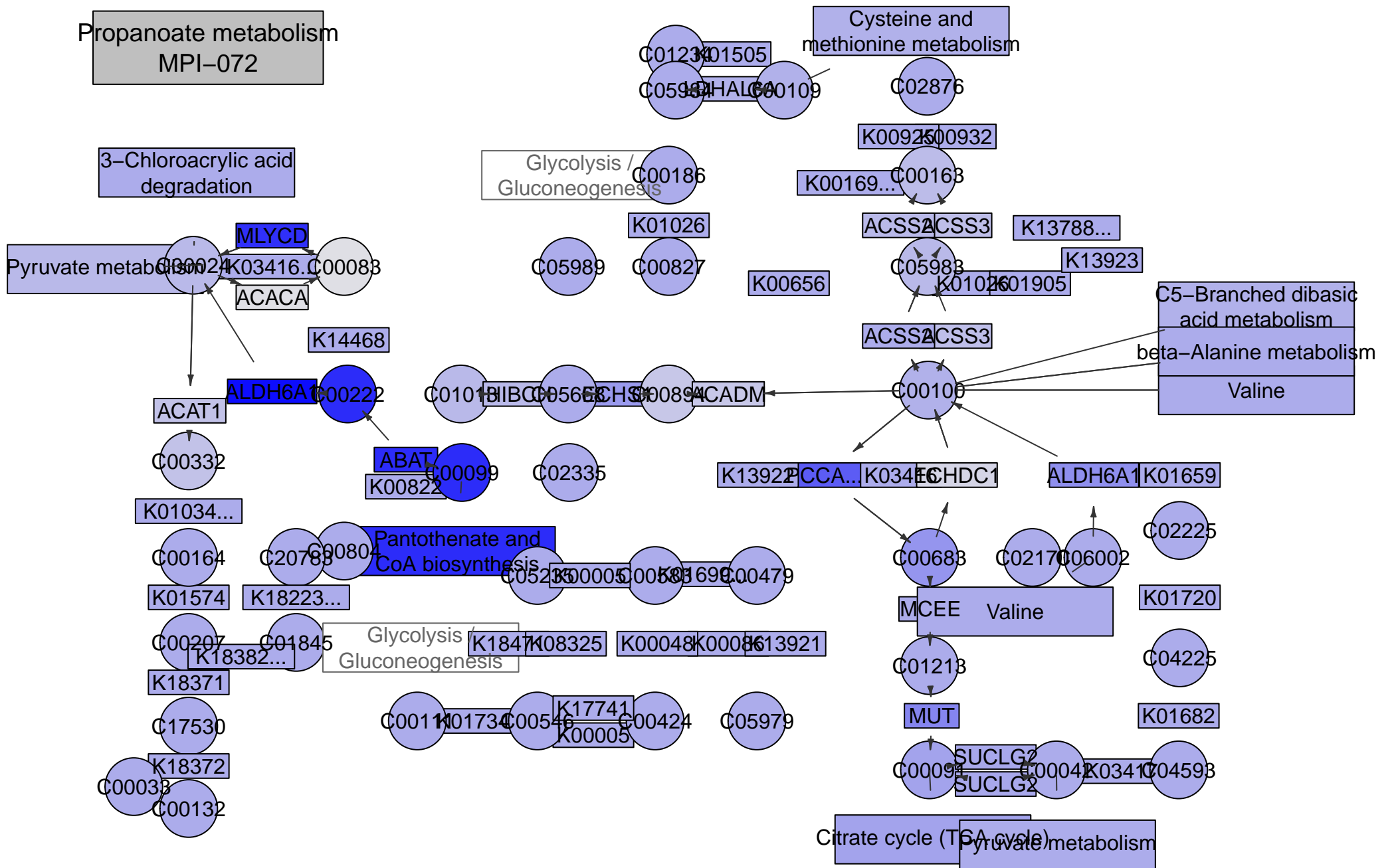


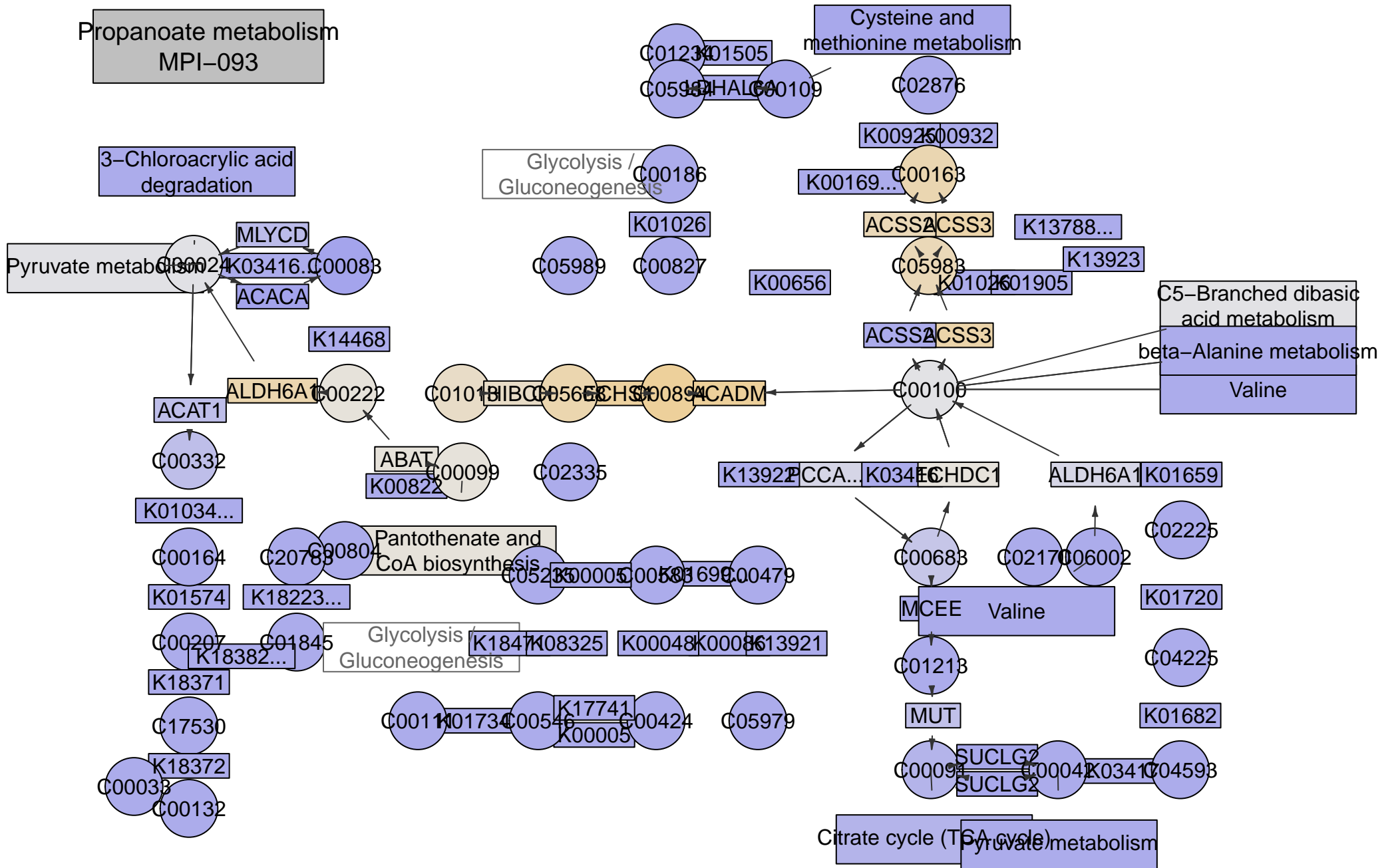


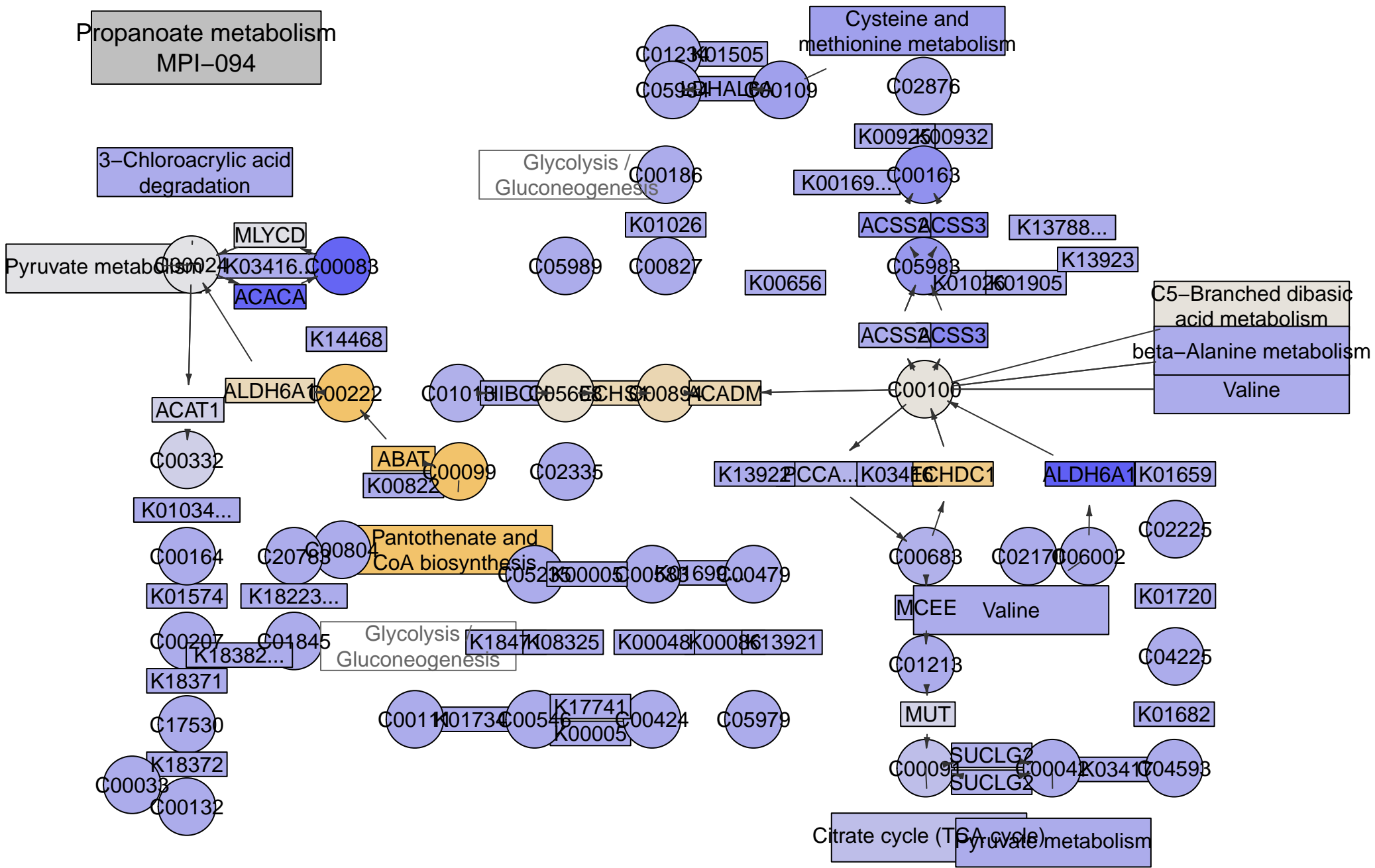


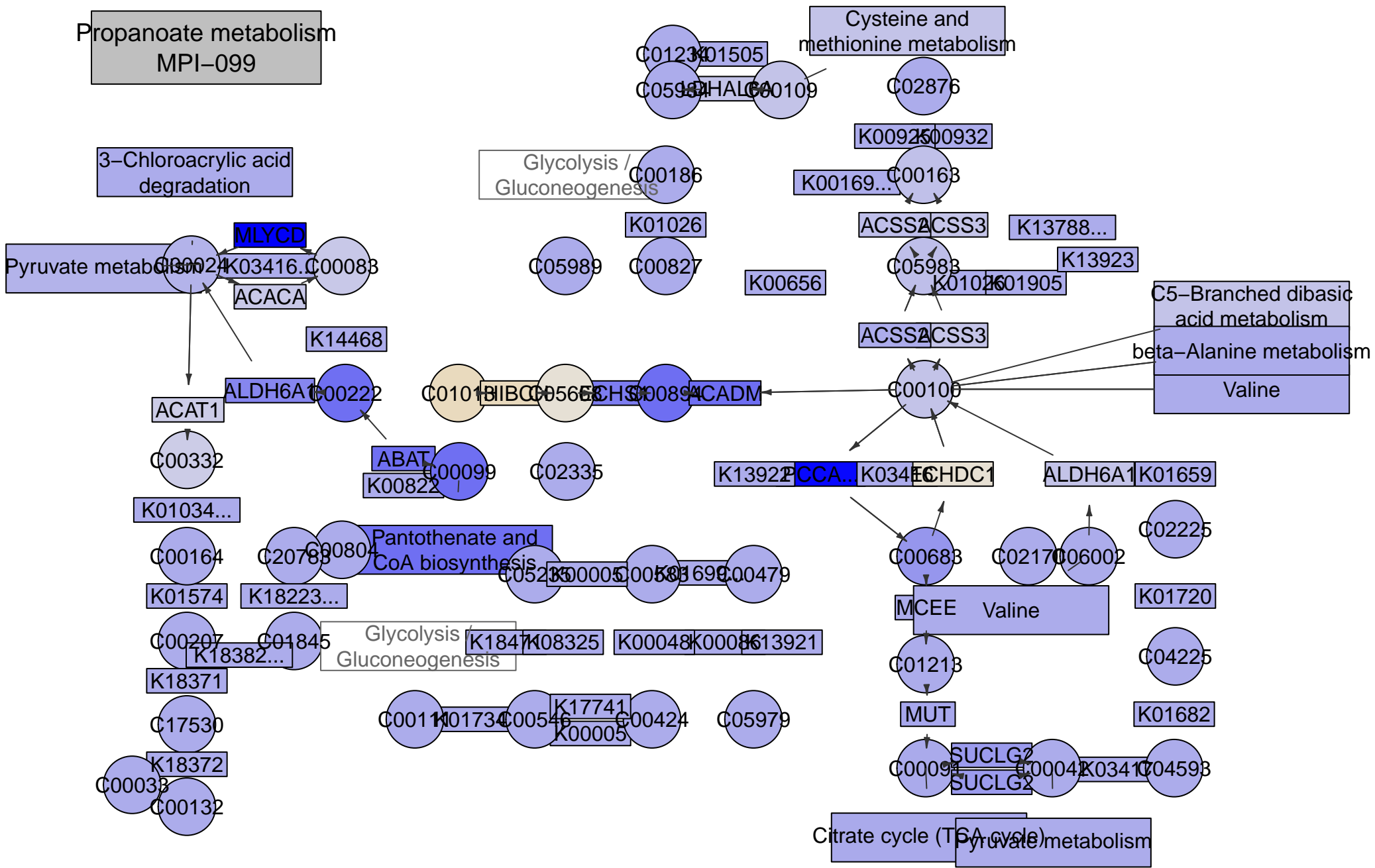


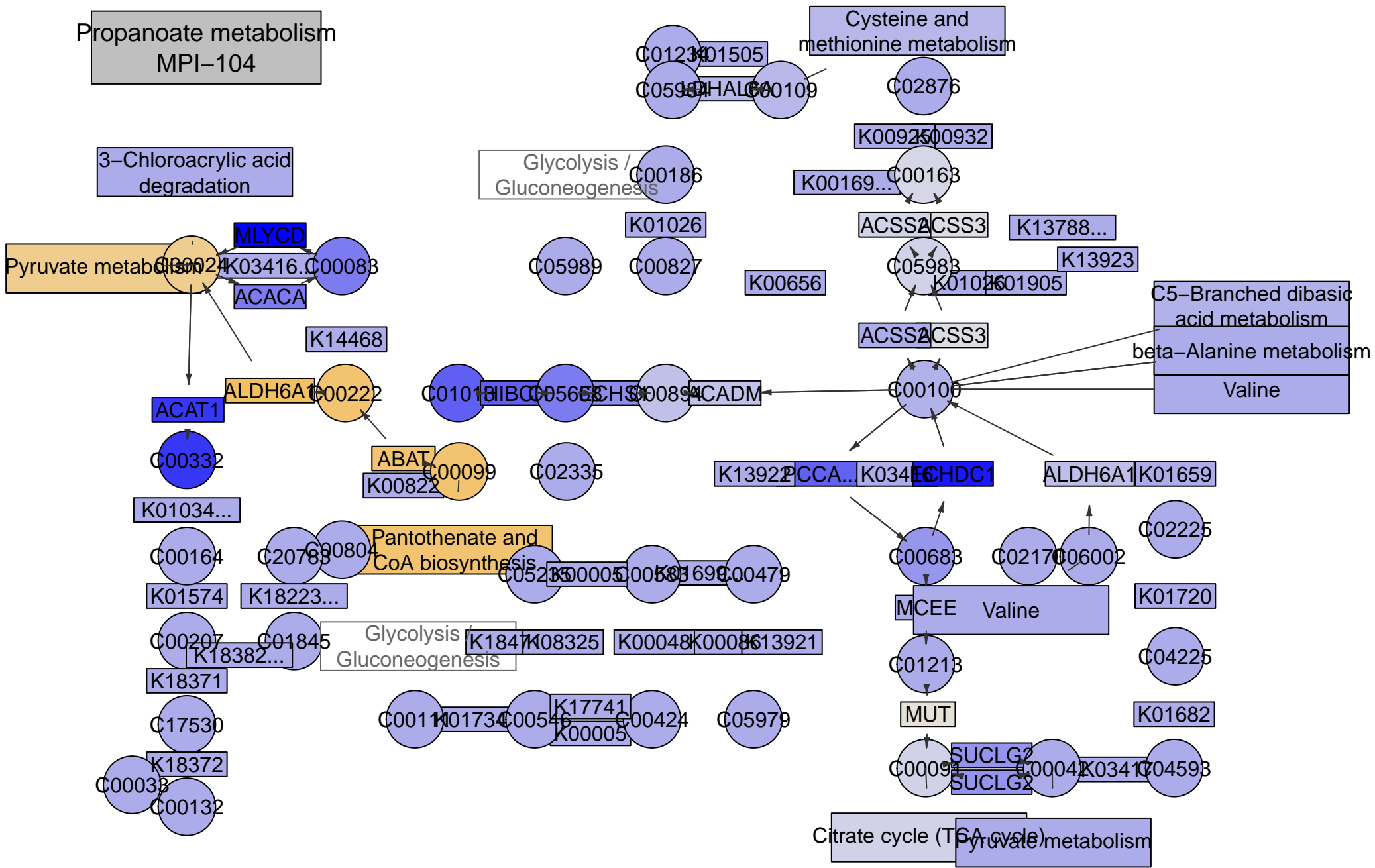


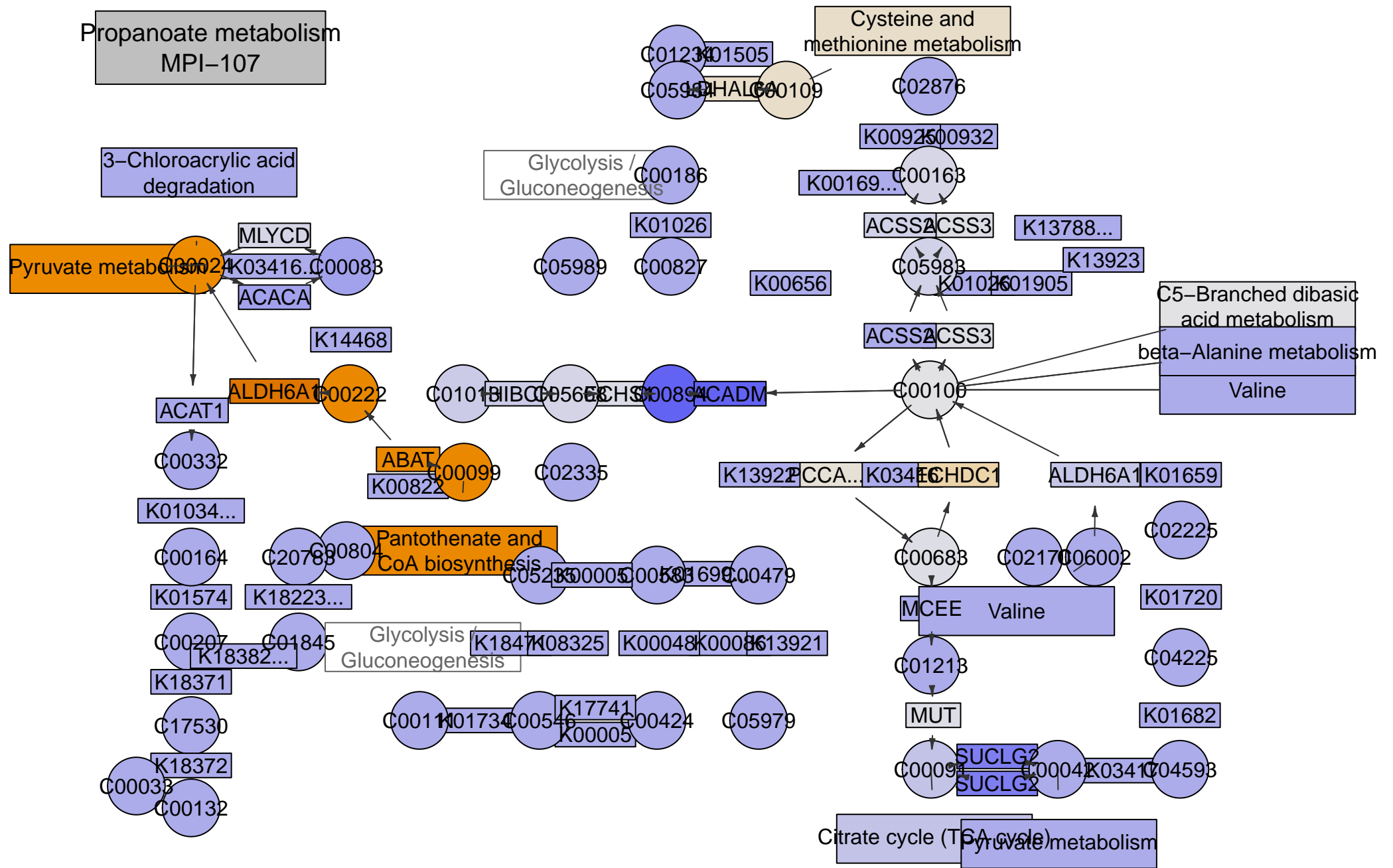


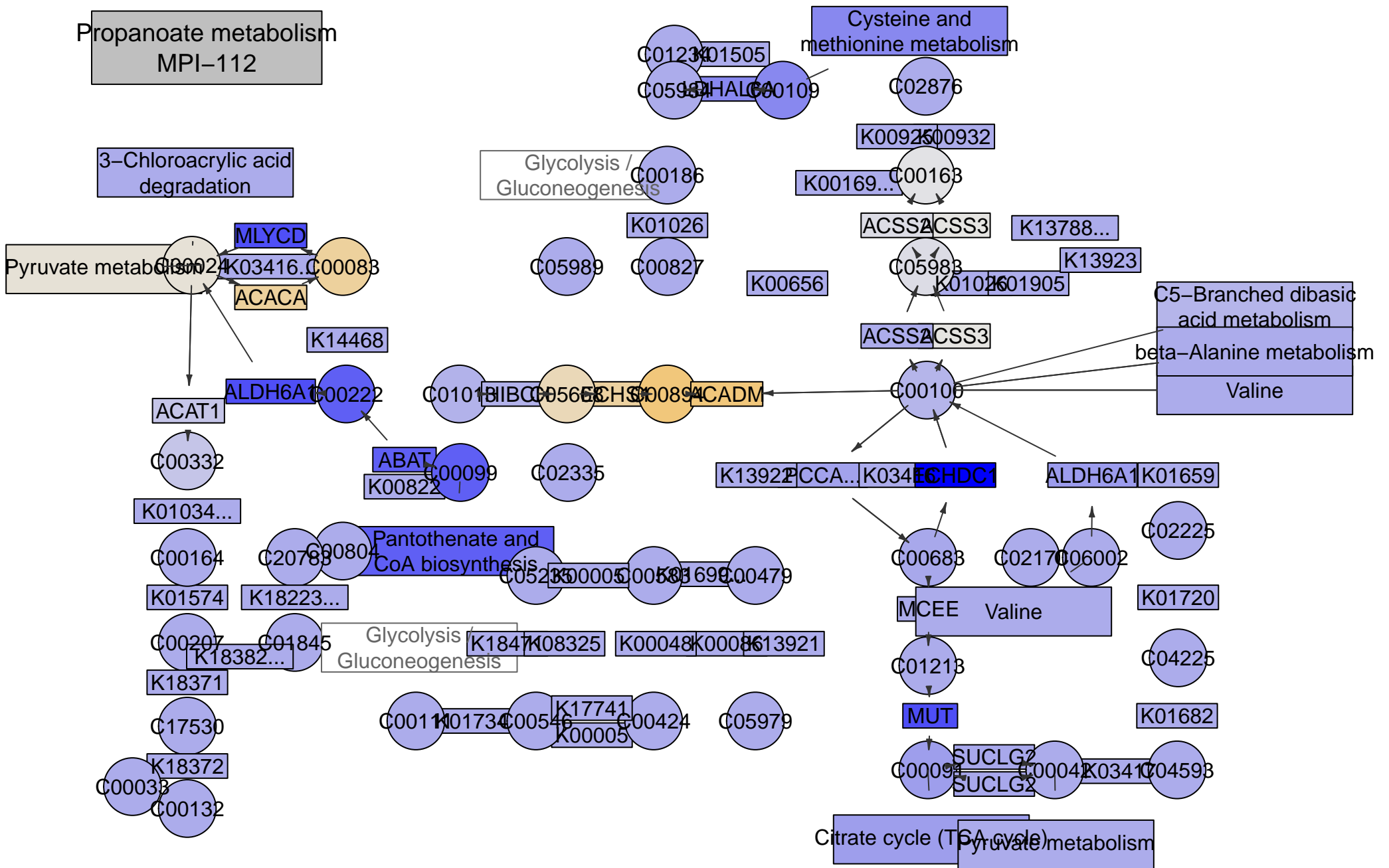












Propanoate metabolism
MPI-116

Cysteine and methionine metabolism

3-Chloroacrylic acid degradation

Glycolysis / Gluconeogenesis

Pyruvate metabolism

K00169...

ACSS2 ACSS3

K13788...

MLYCD

K03416

ACACA

K14468

ACAT1

ALDH6A1

C00332

K01034...

C00164

K01574

C00207

K18382...

K18371

C17530

K18372

C00033

C00132

C05989

C00186

K01026

C00827

C01018

BIBC

C05668

CSH

C00894

ACADM

C00099

ABAT

K00822

C02335

Pantothenate and CoA biosynthesis

C05235

C00005

C00583

C00690

C00479

Glycolysis / Gluconeogenesis

K1847

K08325

K00048

K00036

K13921

C00111

C01734

K17741

K00005

C00424

C05979

K13922

PCCA...

K03416

CHDC1

ALDH6A1

K01659

C00683

MCEE

Valine

C01213

MUT

C00094

SUCLG2

SUCLG2

C02170

C06002

Valine

C04225

K01682

C00041

K03416

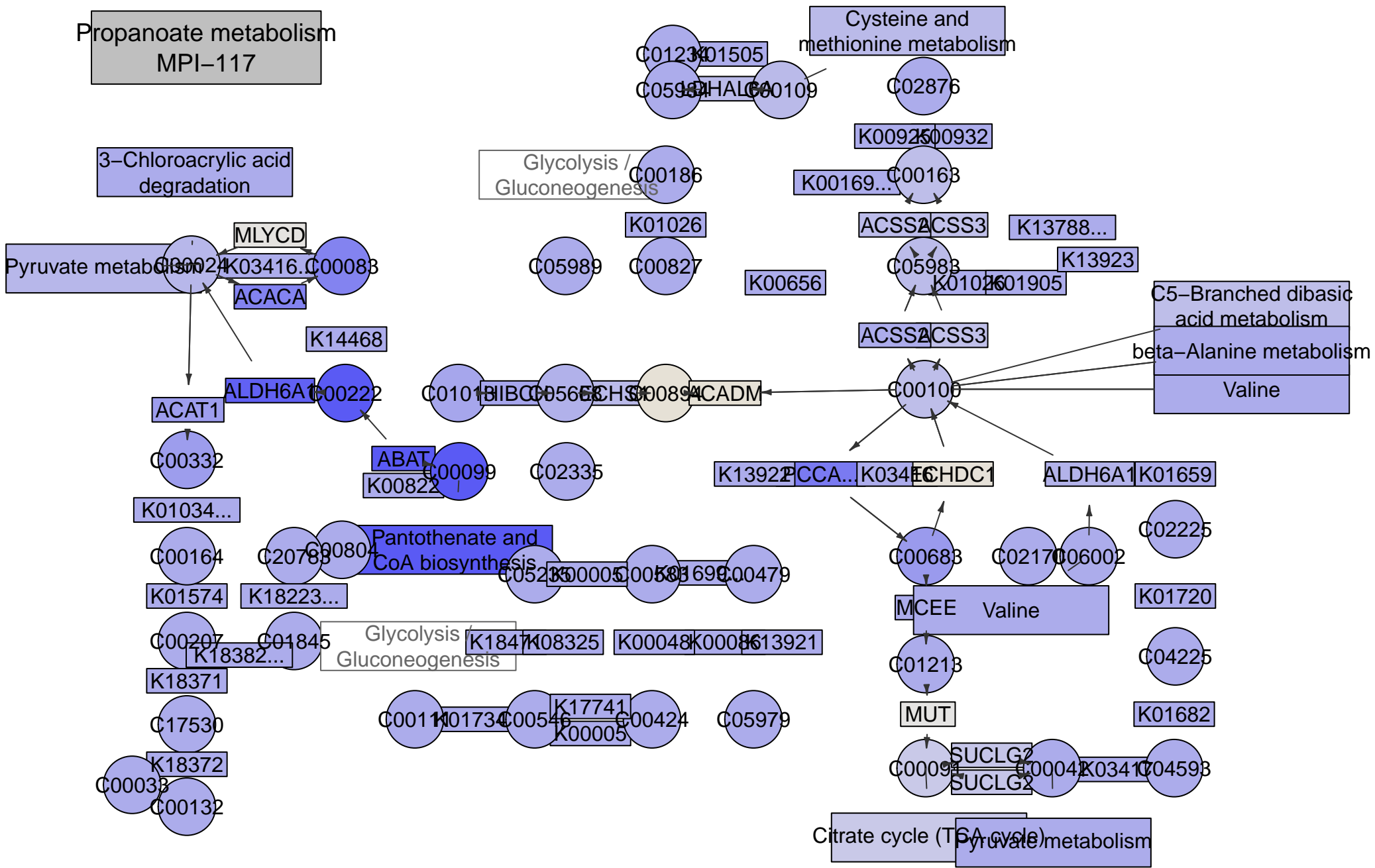
C04593

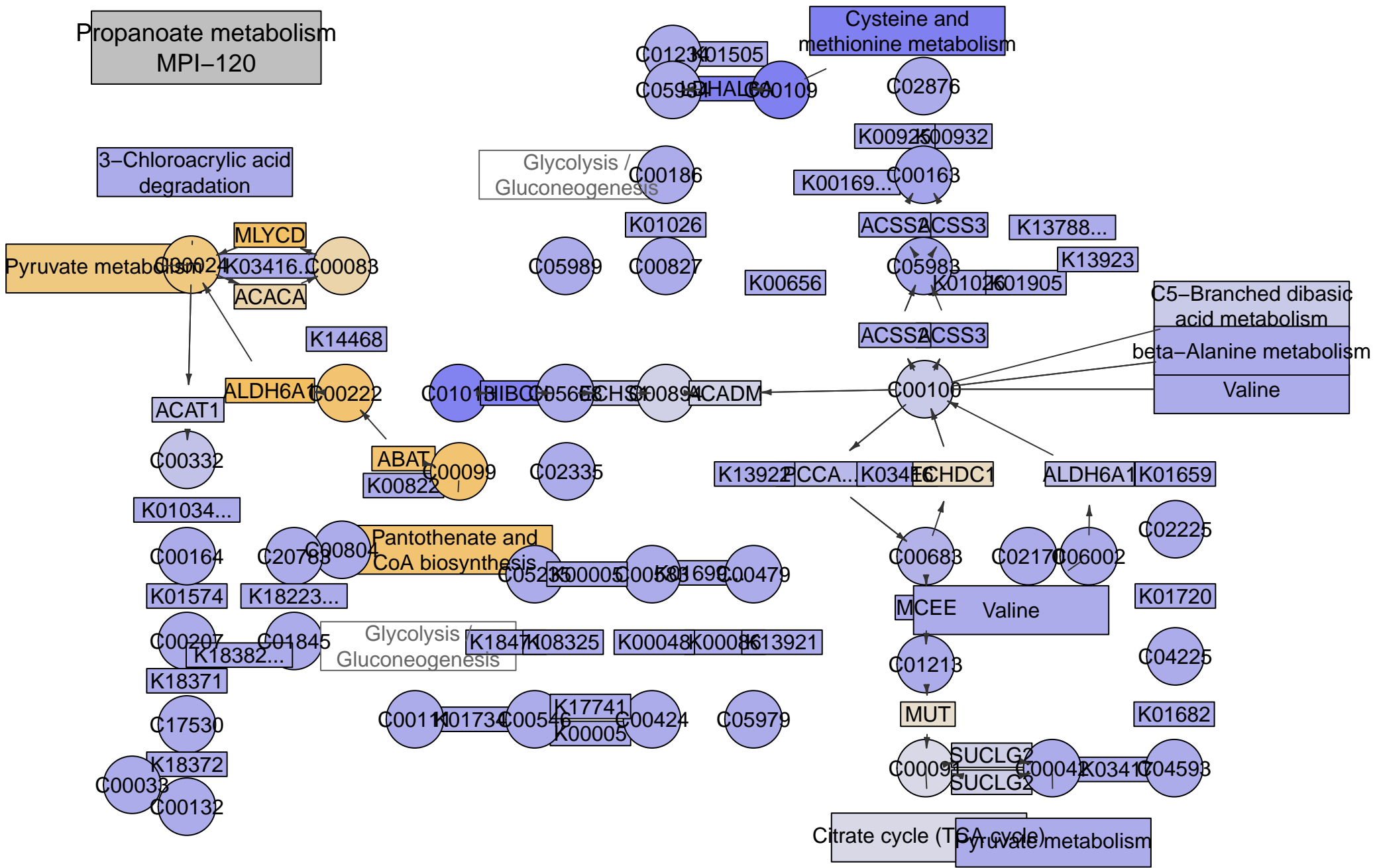
C5-Branched dibasic acid metabolism

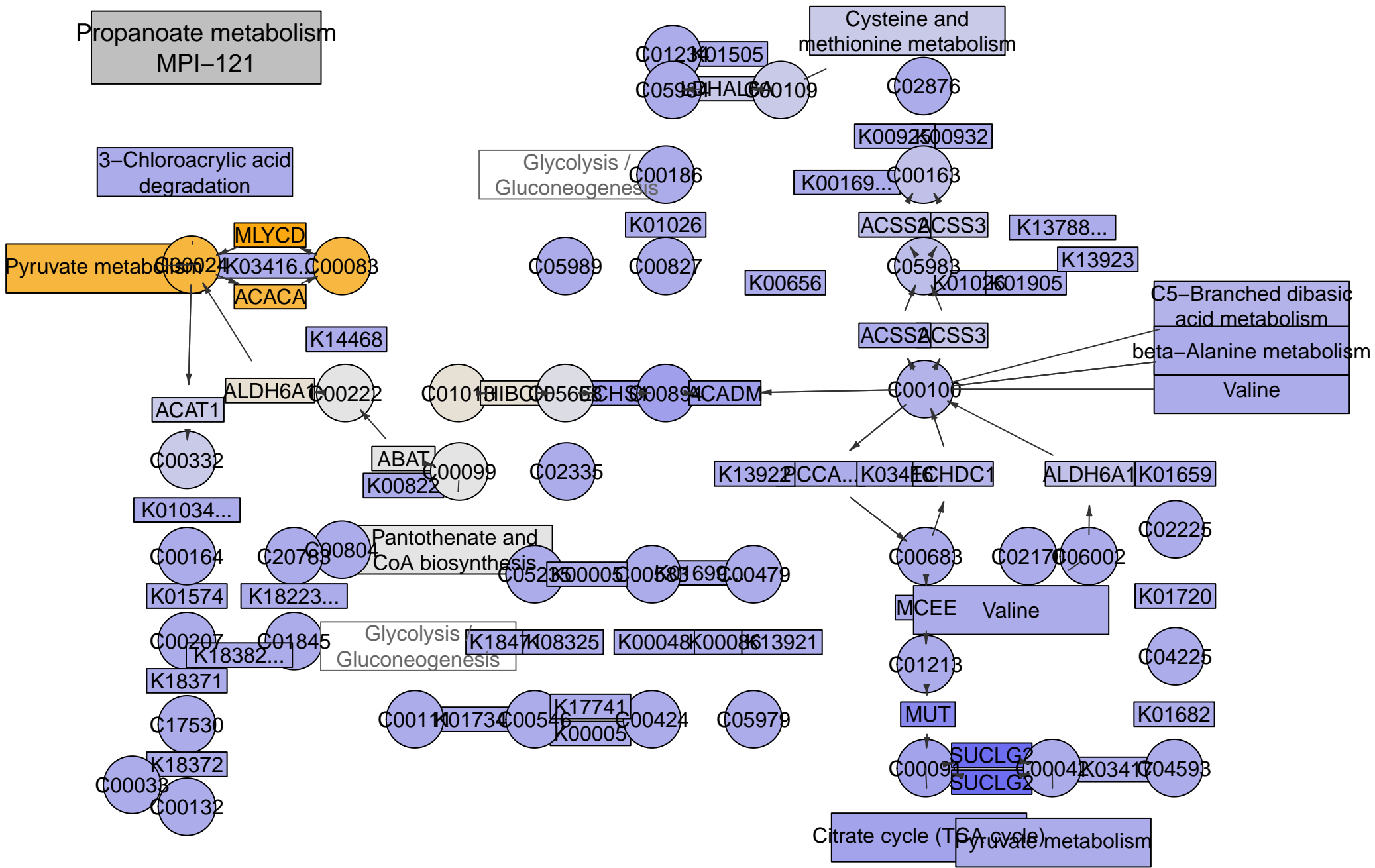
beta-Alanine metabolism

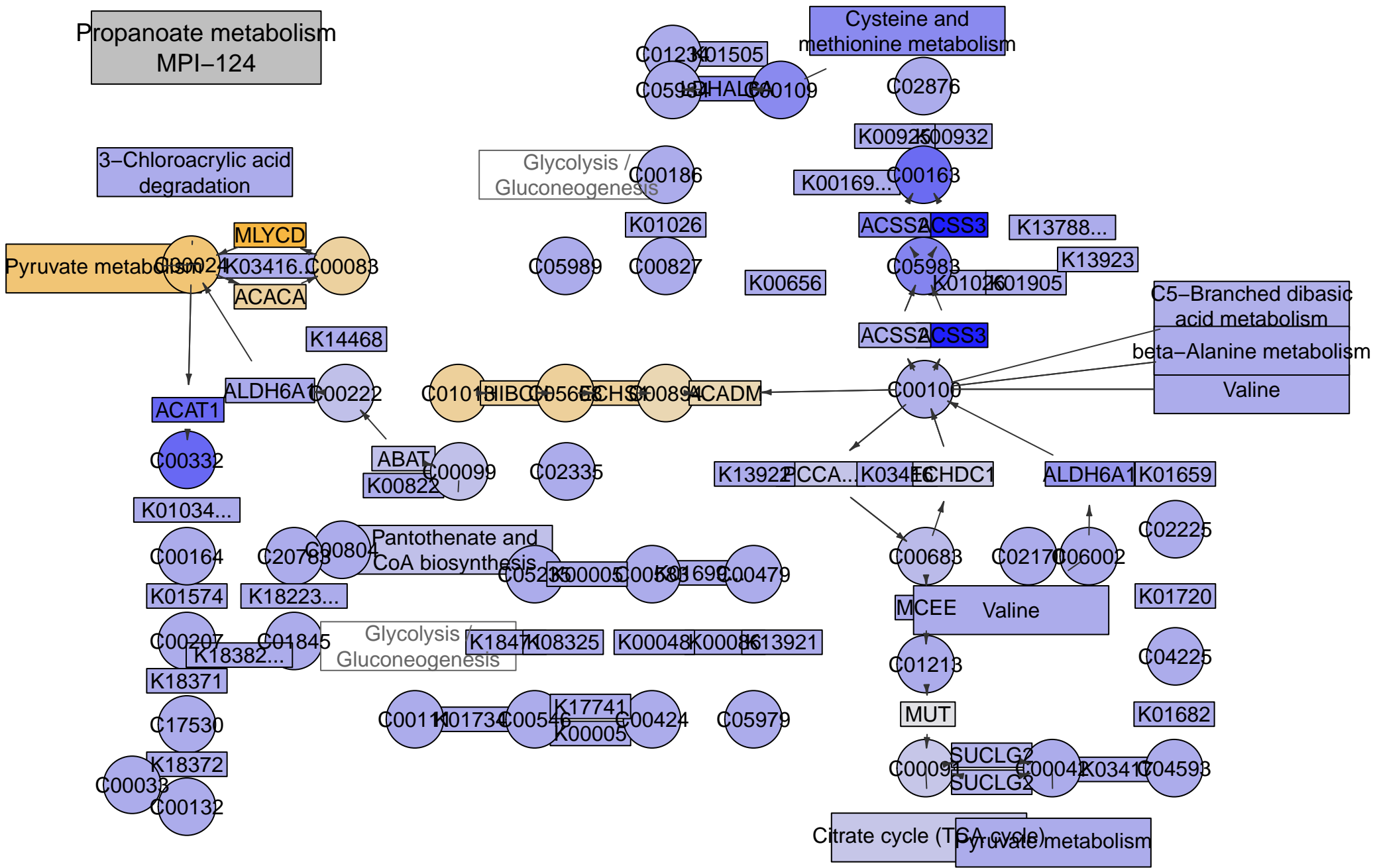
Valine

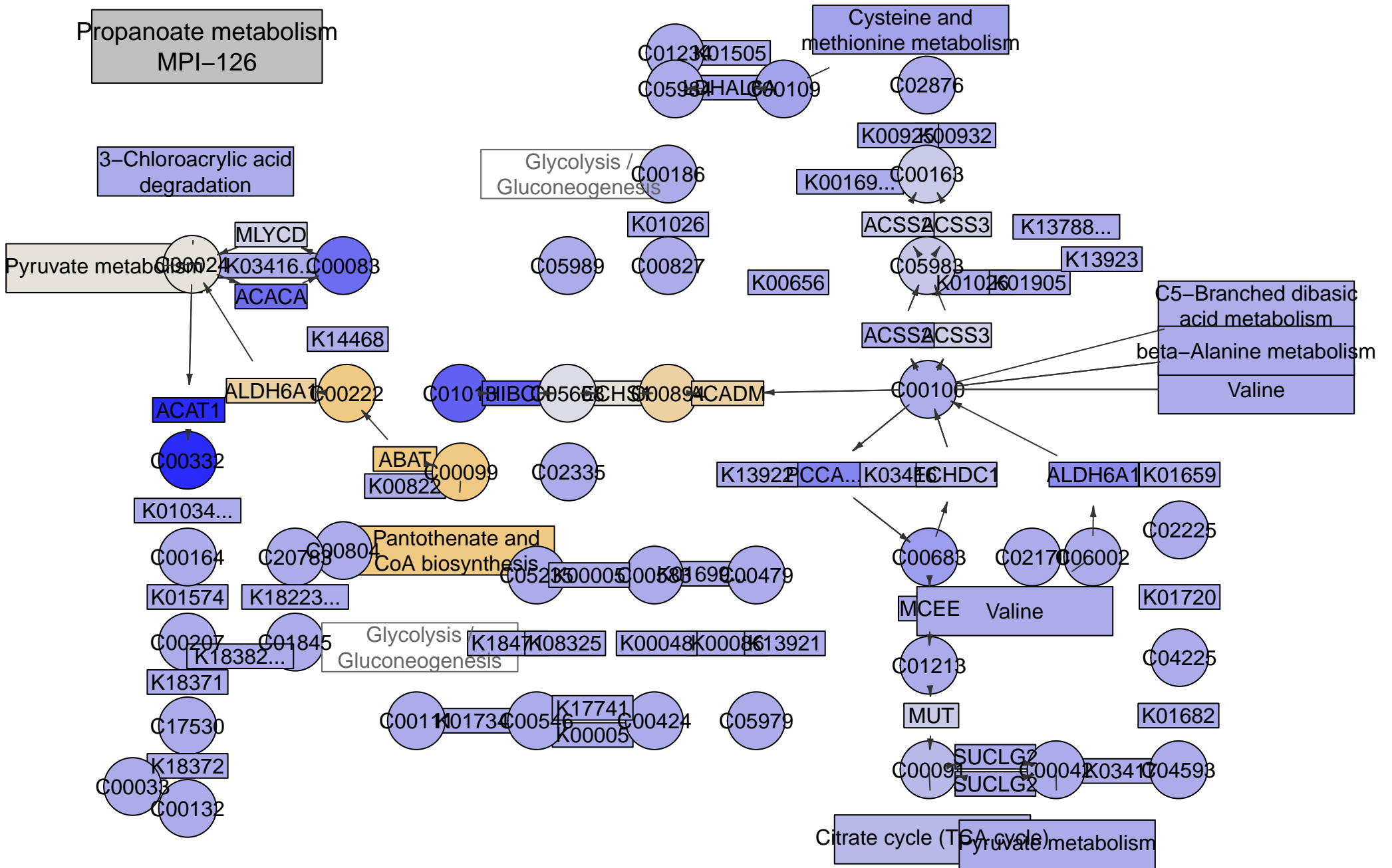
Citrate cycle (TCA cycle) / Pyruvate metabolism

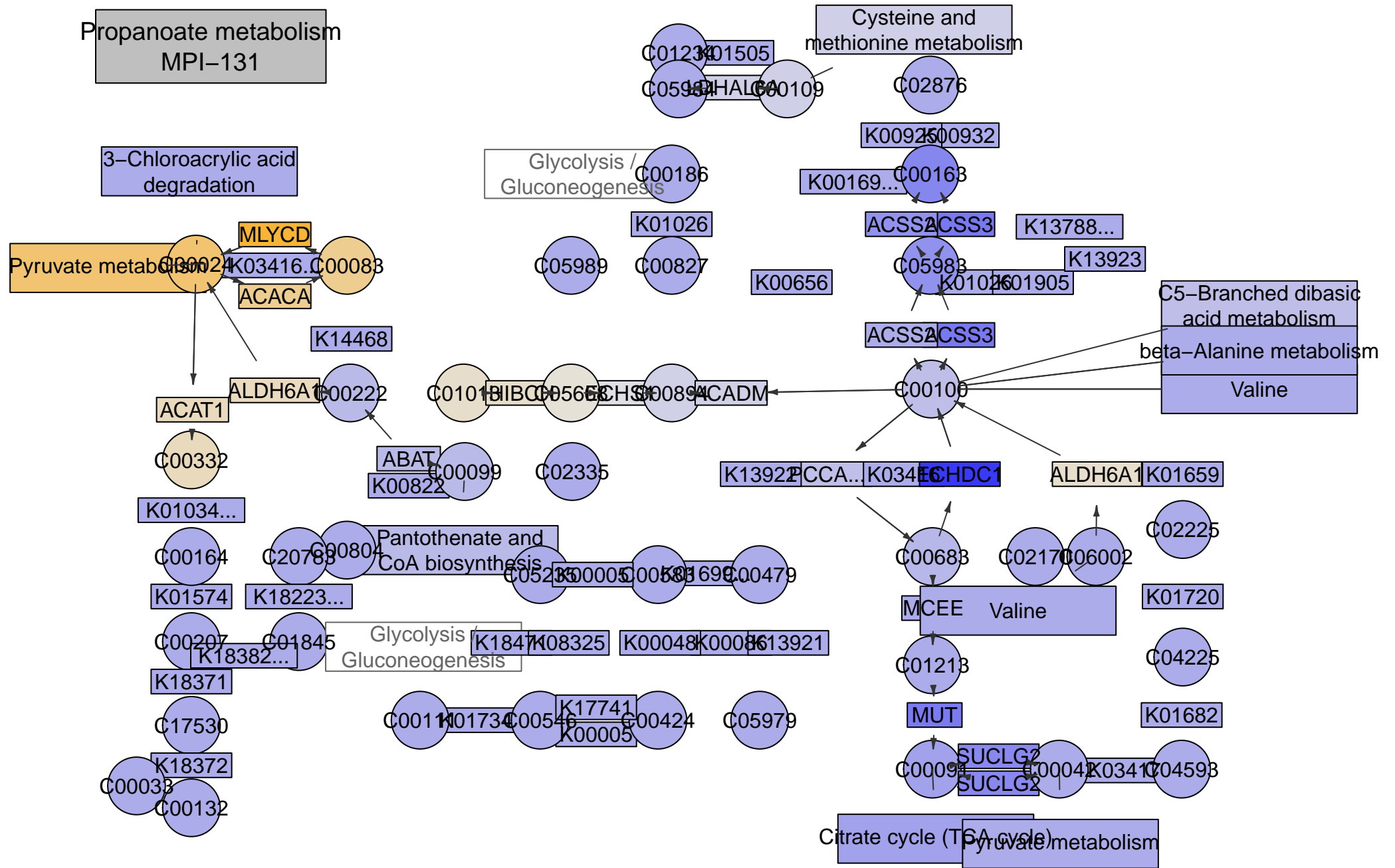


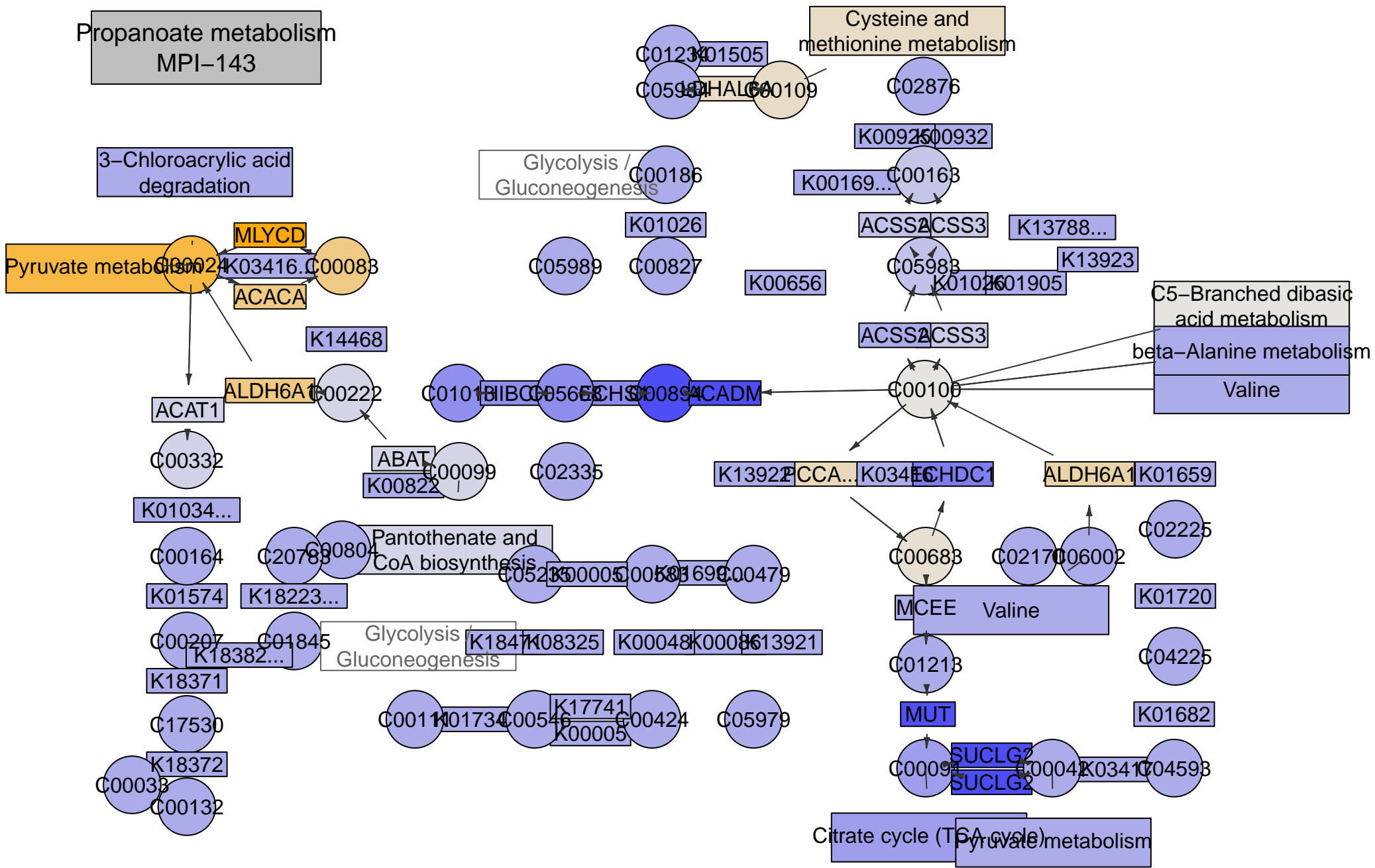


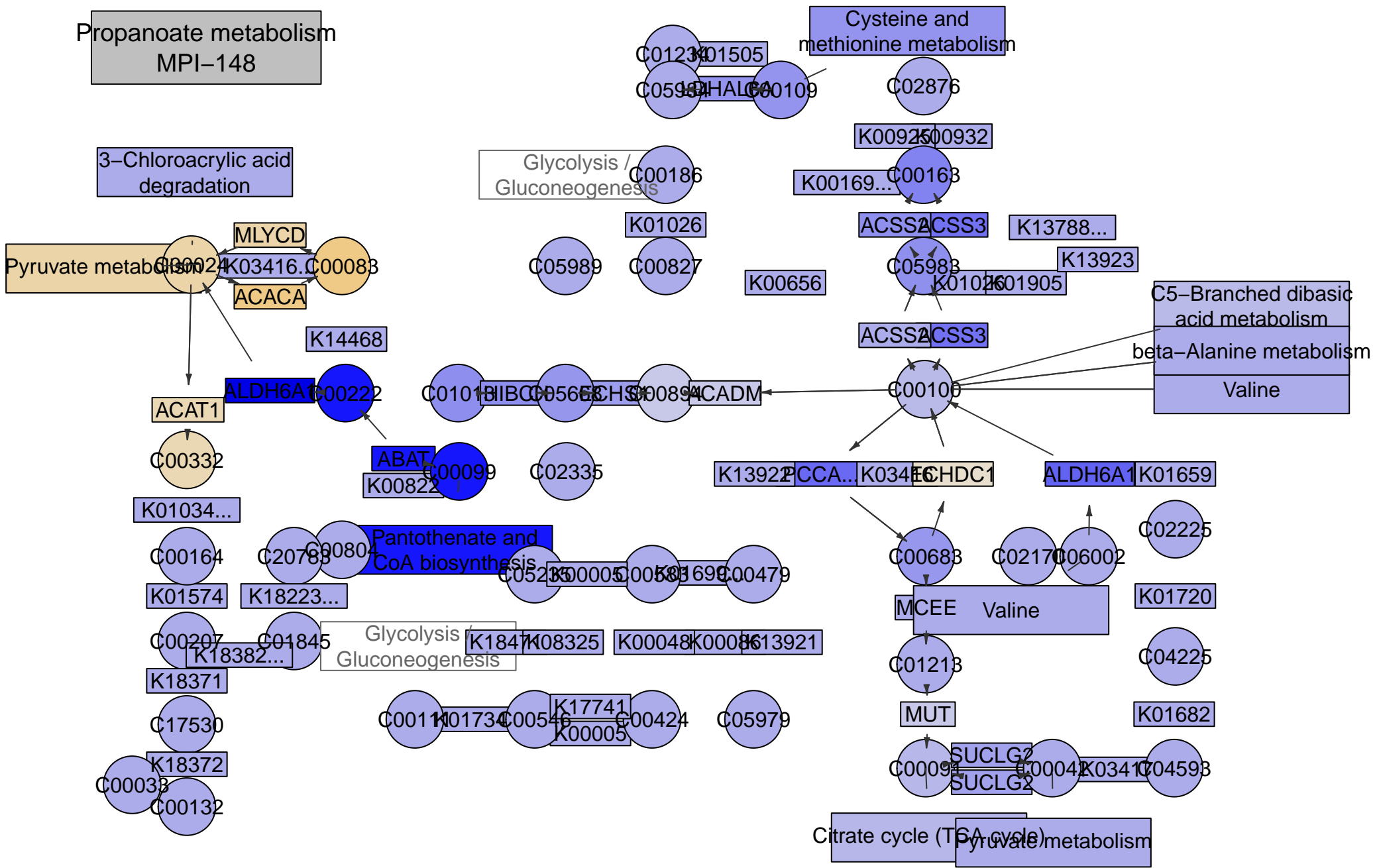


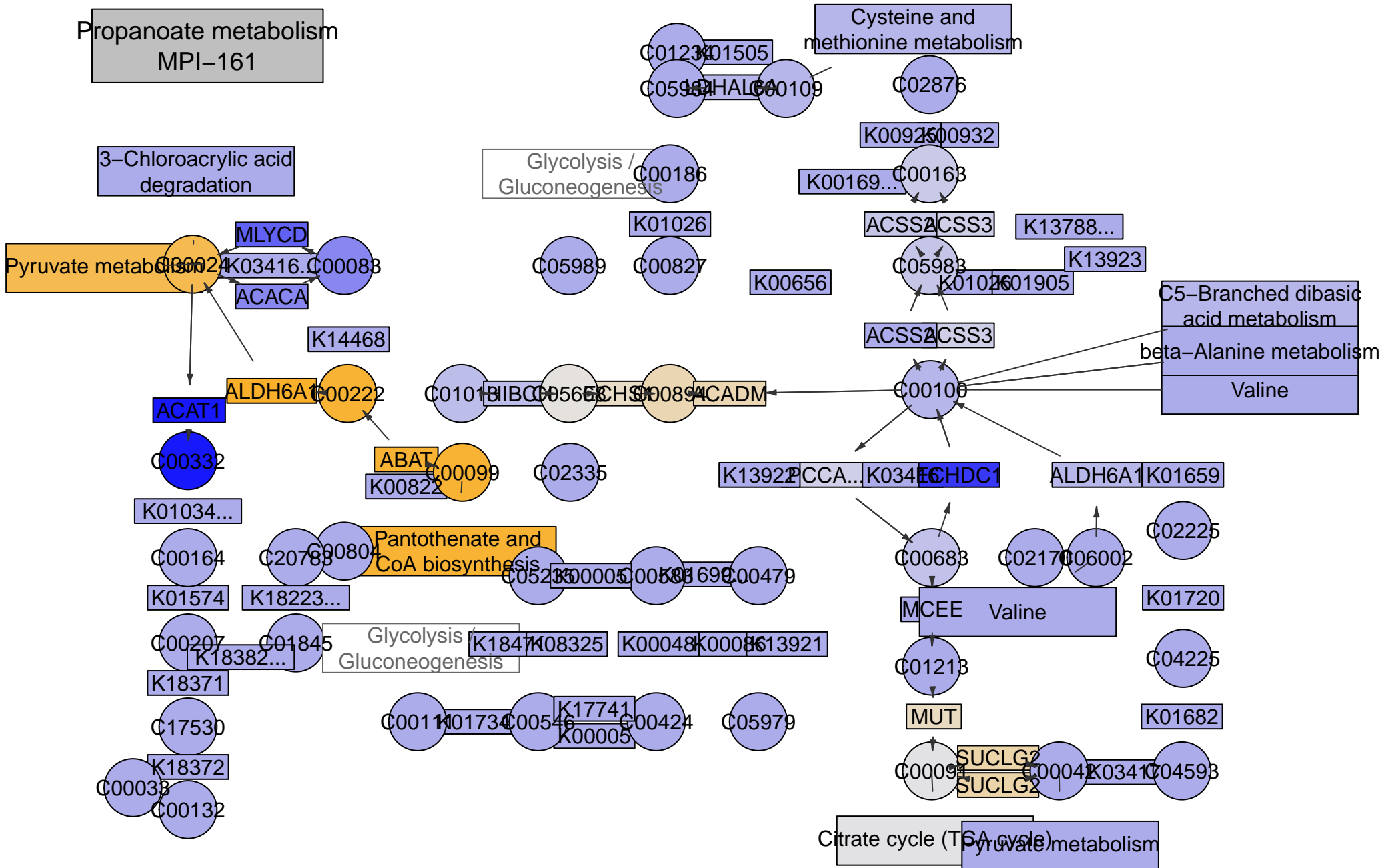


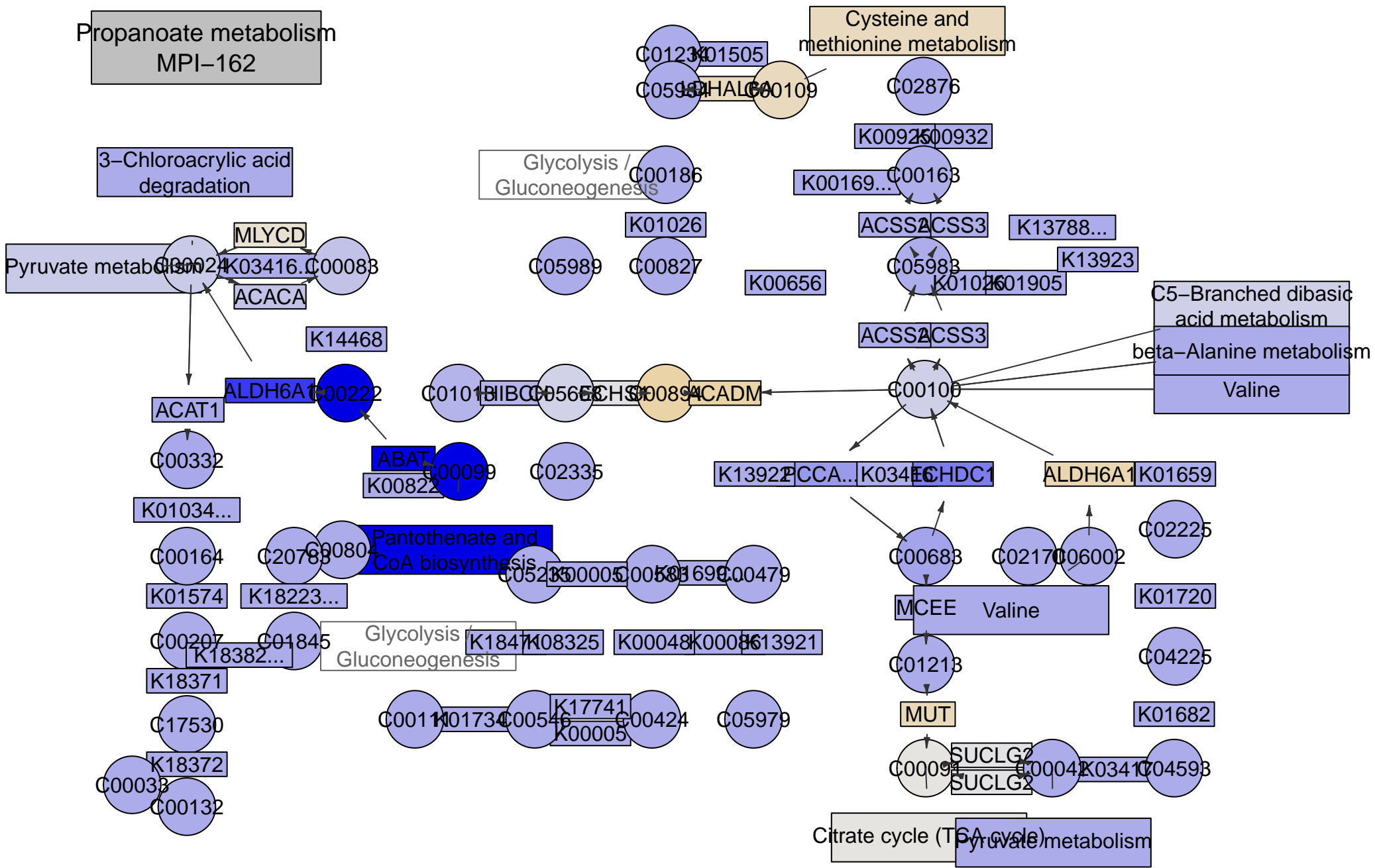


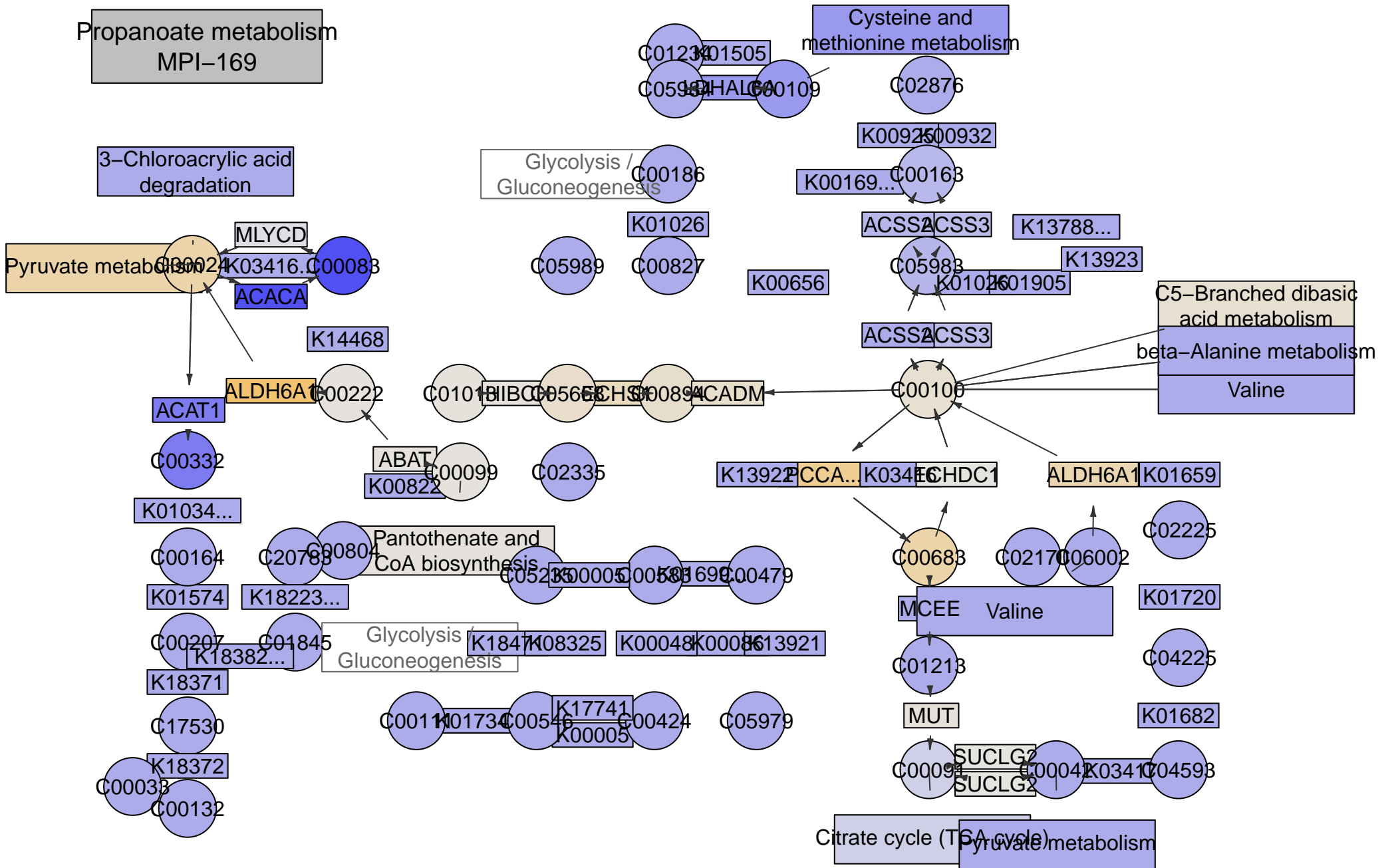


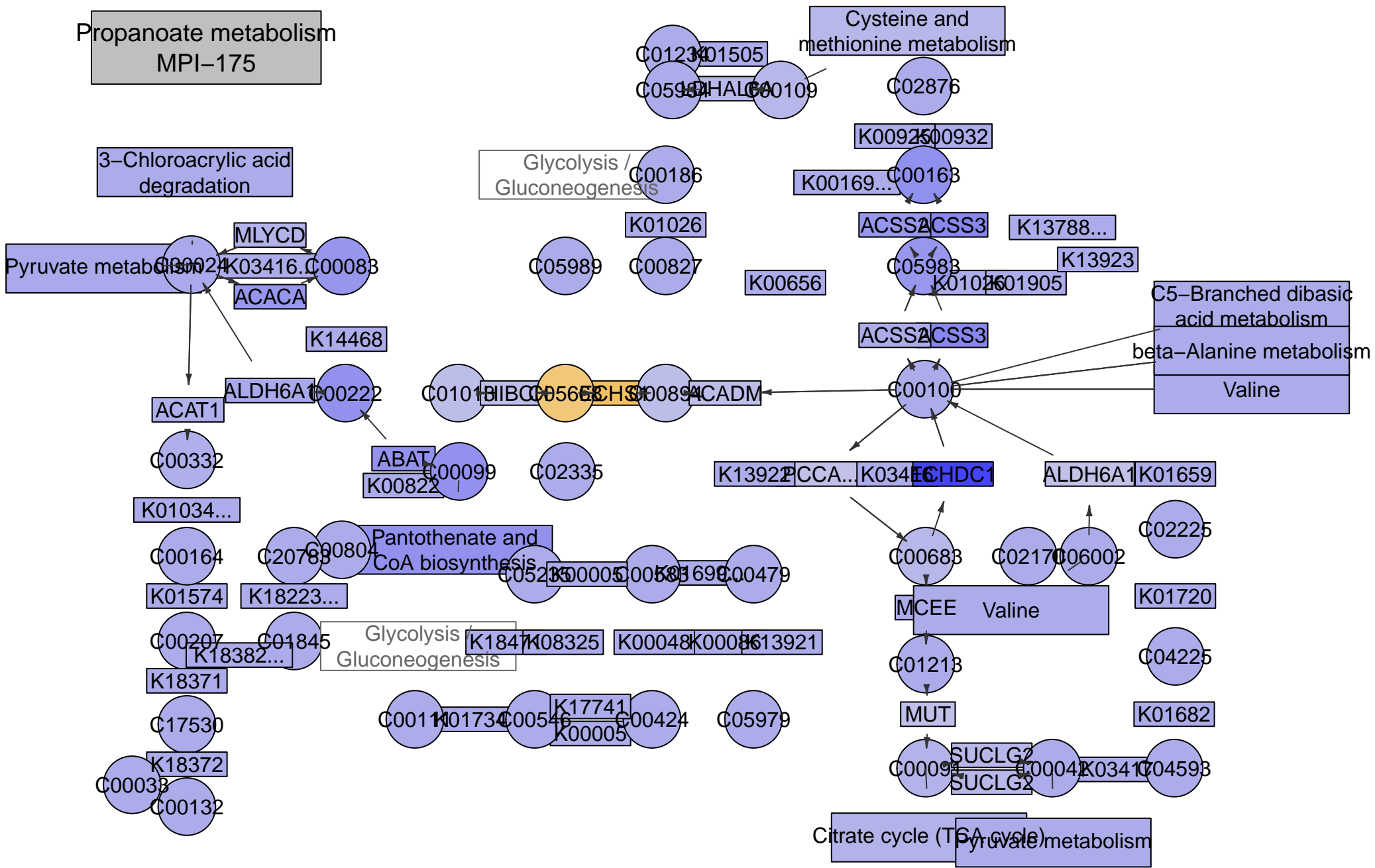


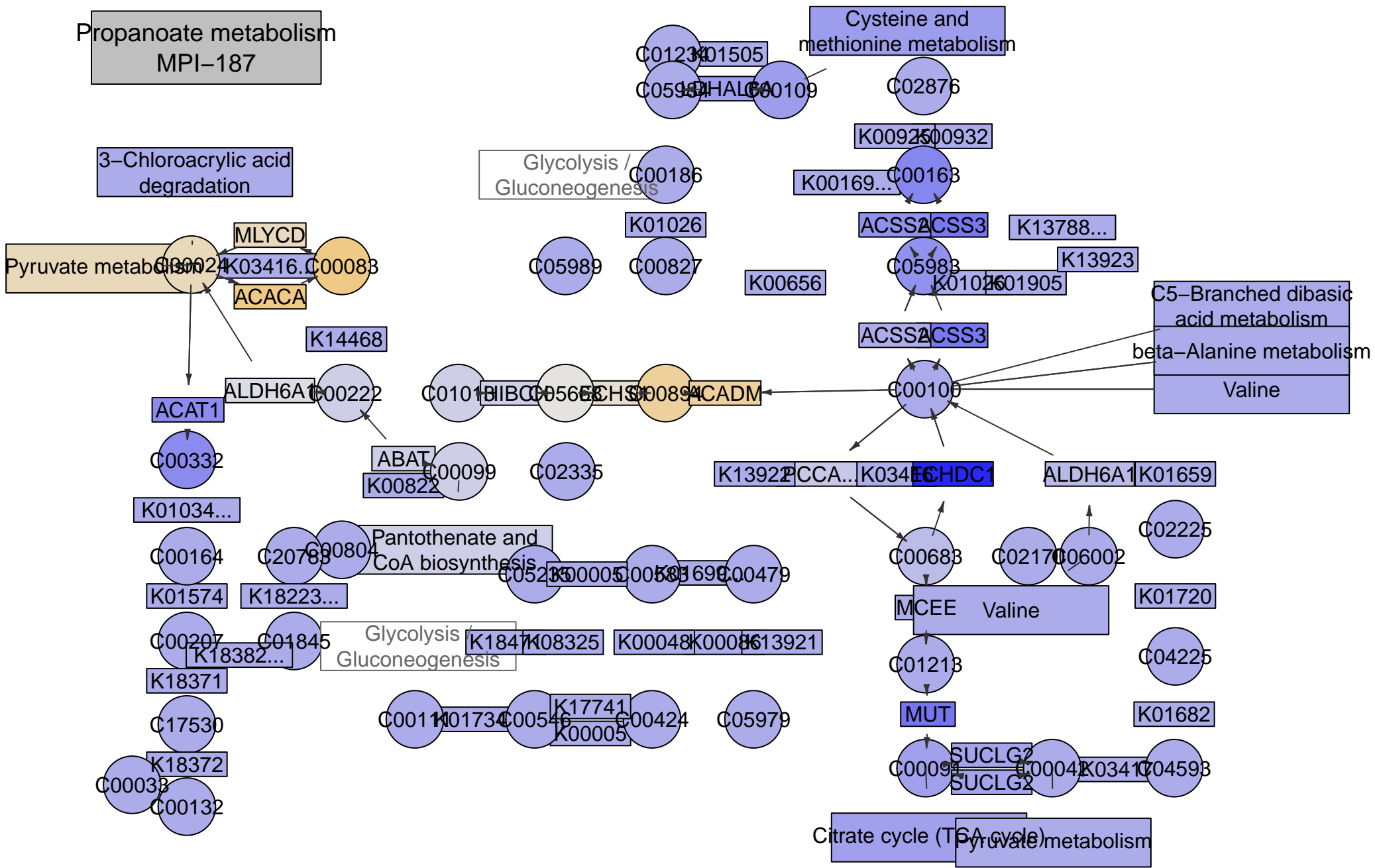


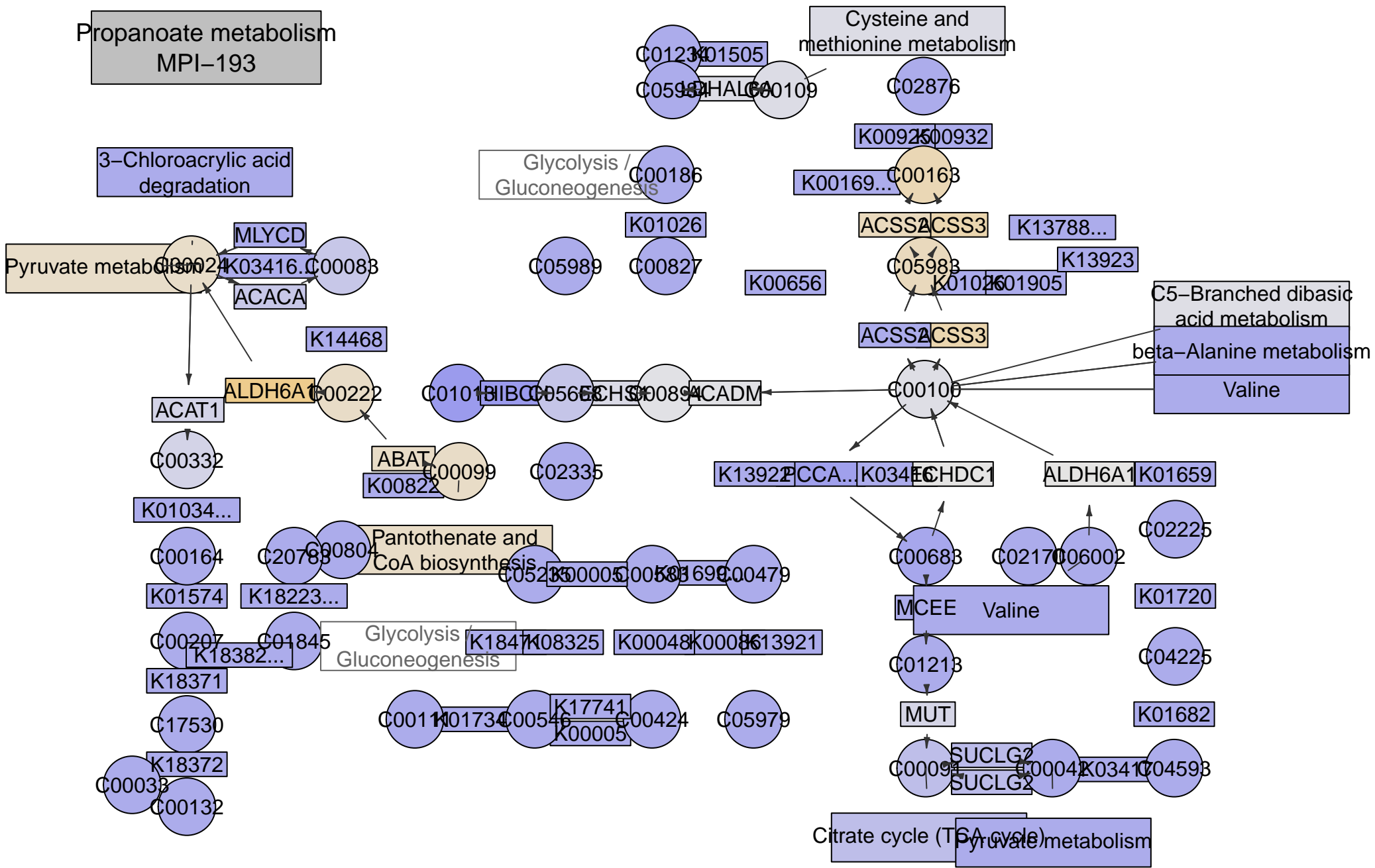












Propanoate metabolism
MPI-193

Cysteine and methionine metabolism

3-Chloroacrylic acid degradation

Glycolysis / Gluconeogenesis

Pyruvate metabolism

C5-Branched dibasic acid metabolism

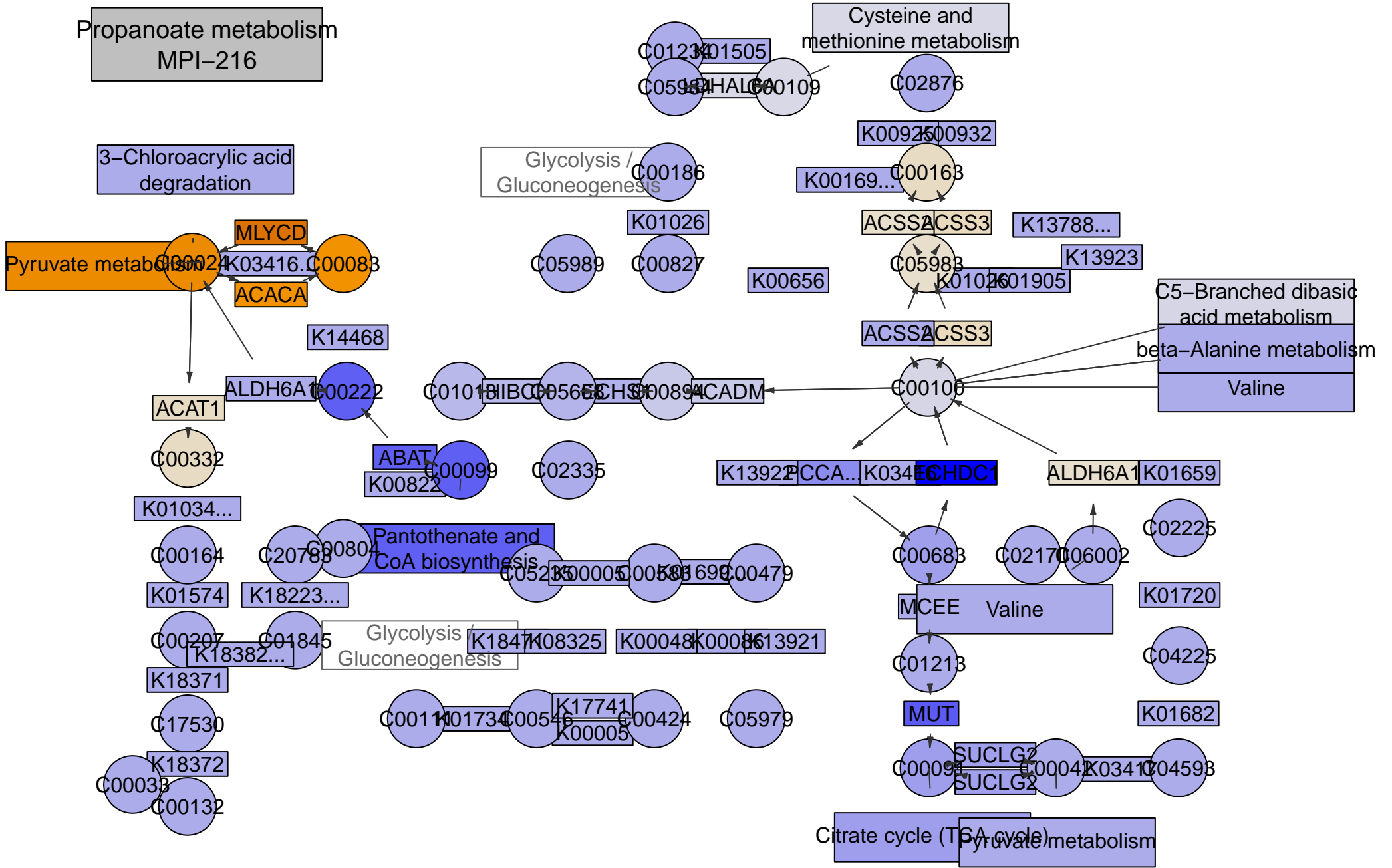
beta-Alanine metabolism

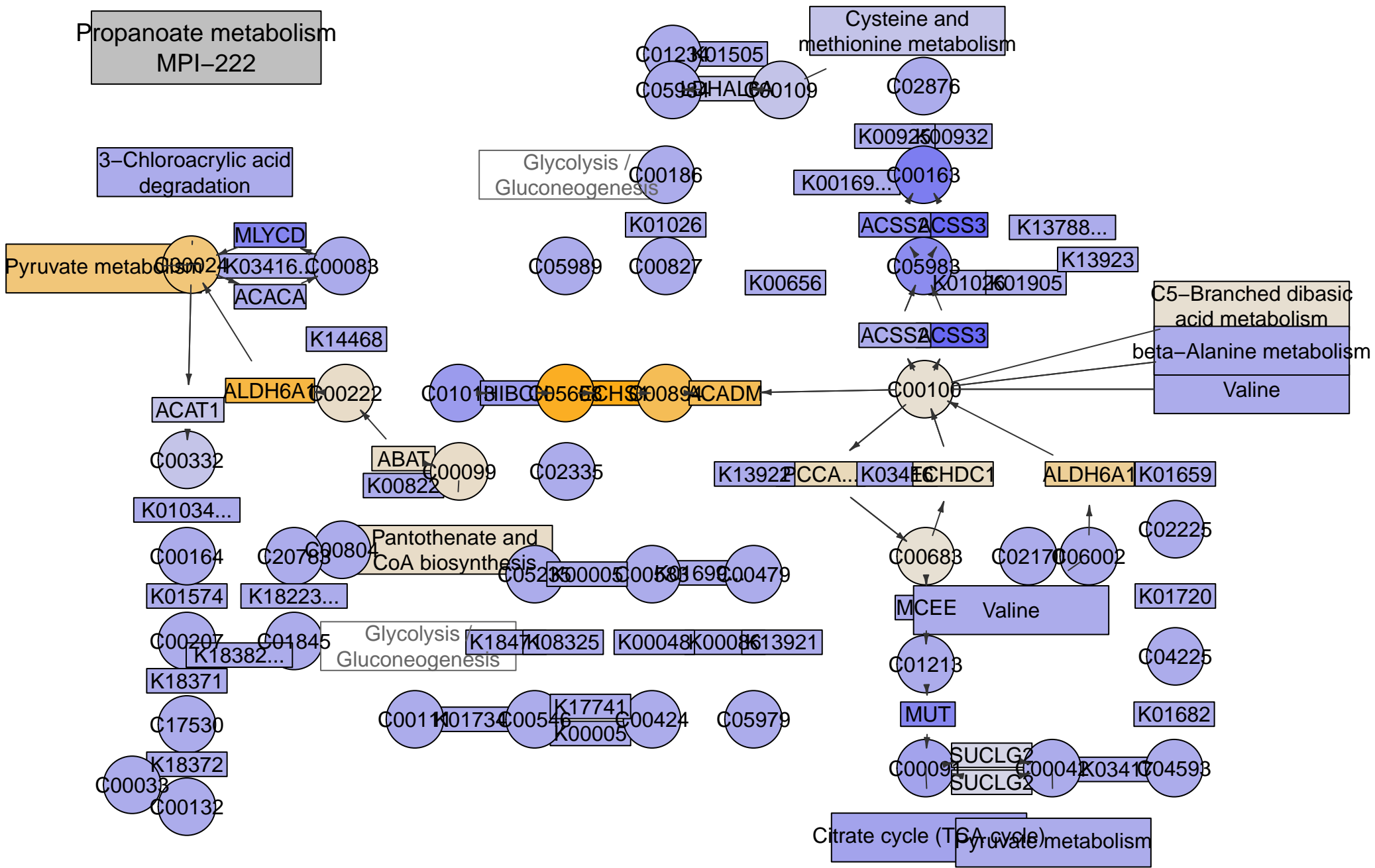
Valine

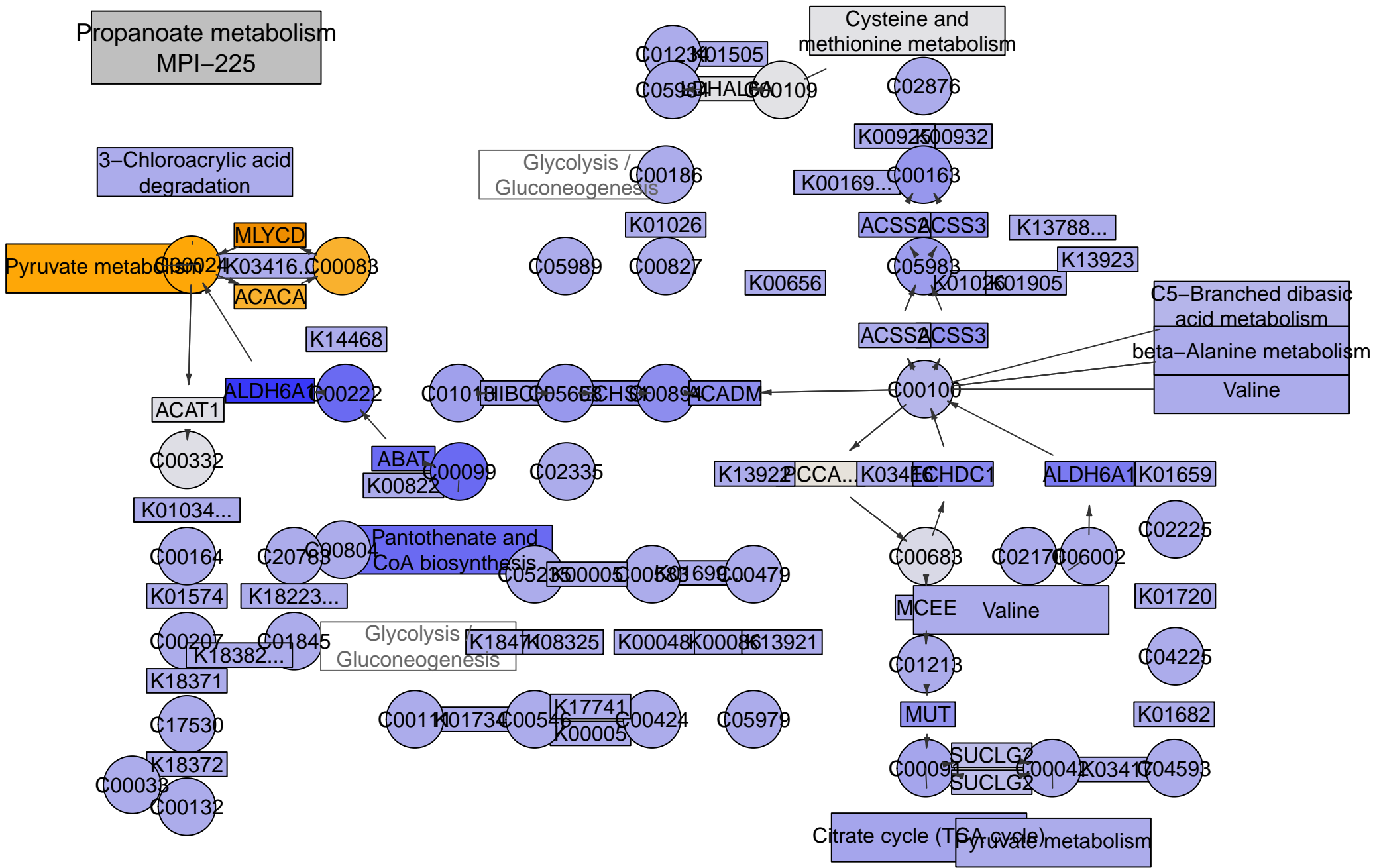
Pantothenate and CoA biosynthesis

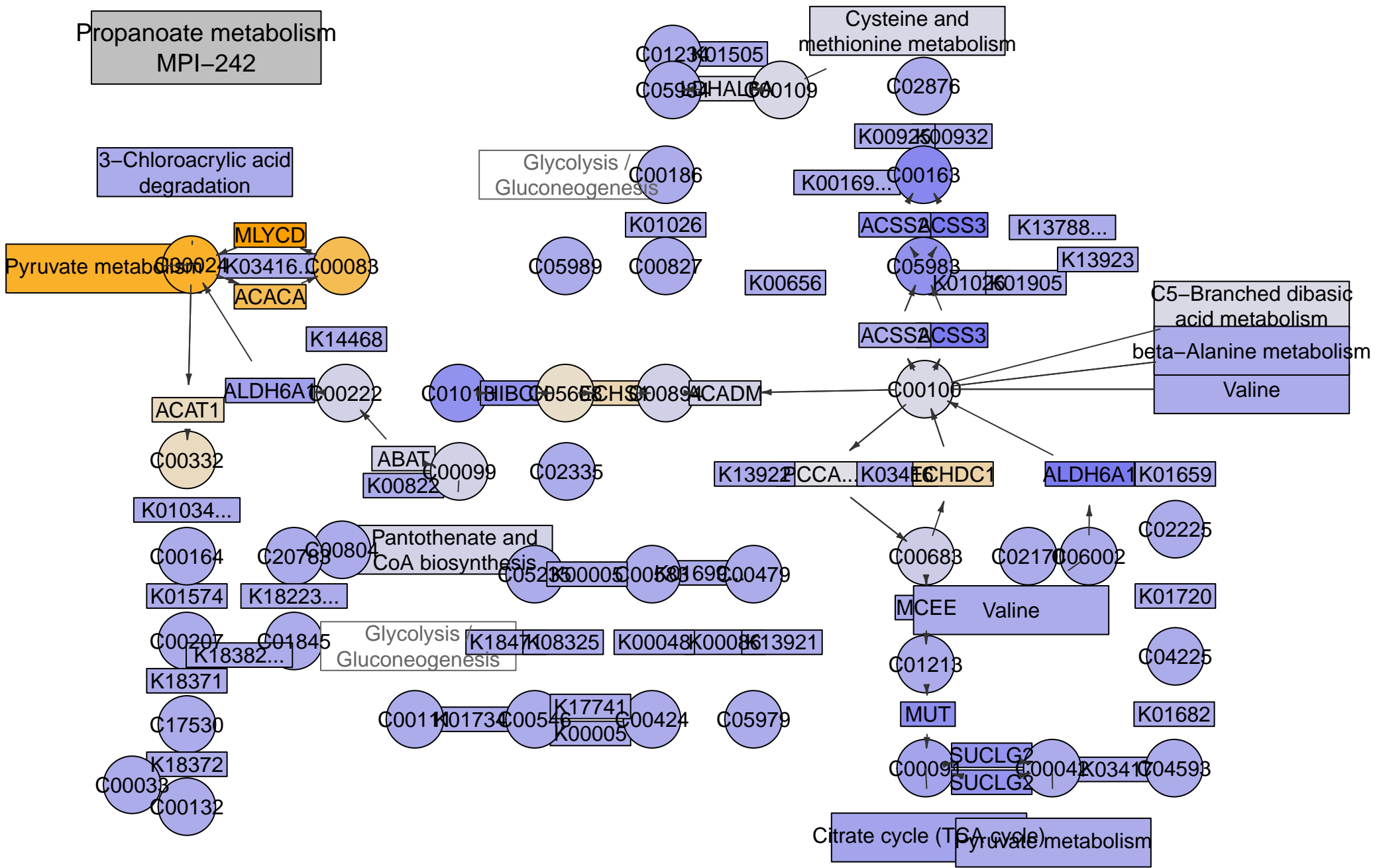
Glycolysis / Gluconeogenesis

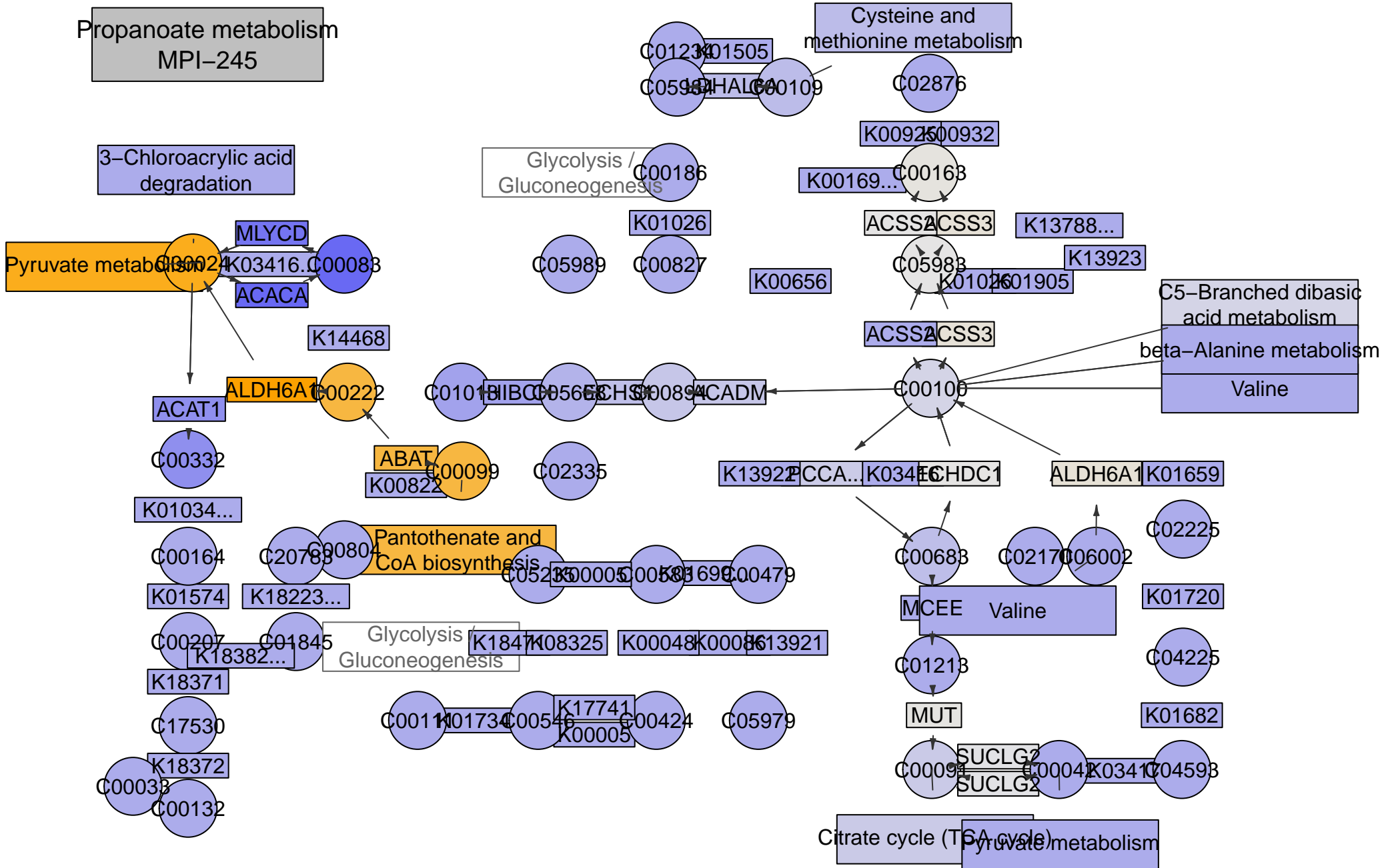
Citrate cycle (TCA cycle)
Pyruvate metabolism

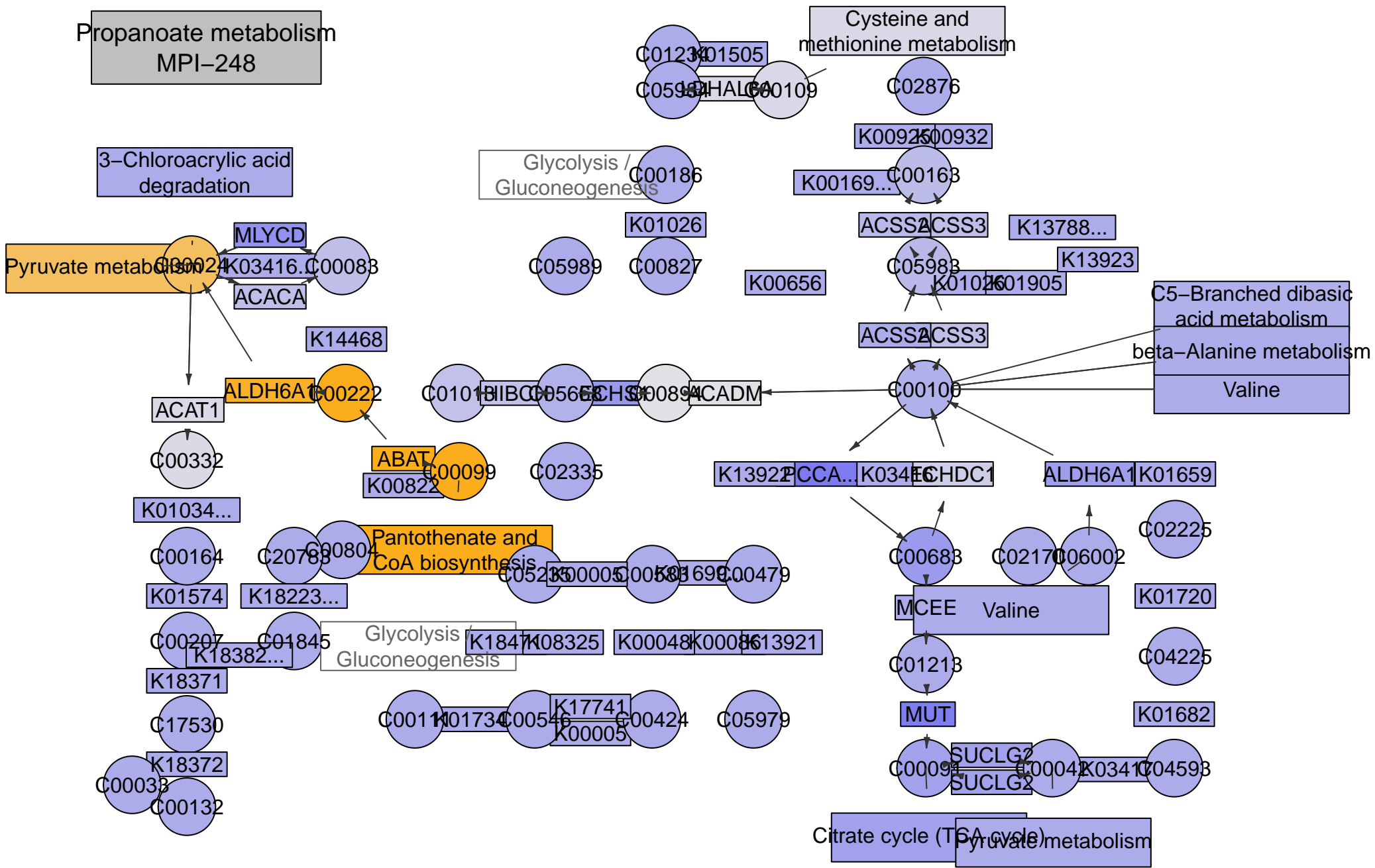


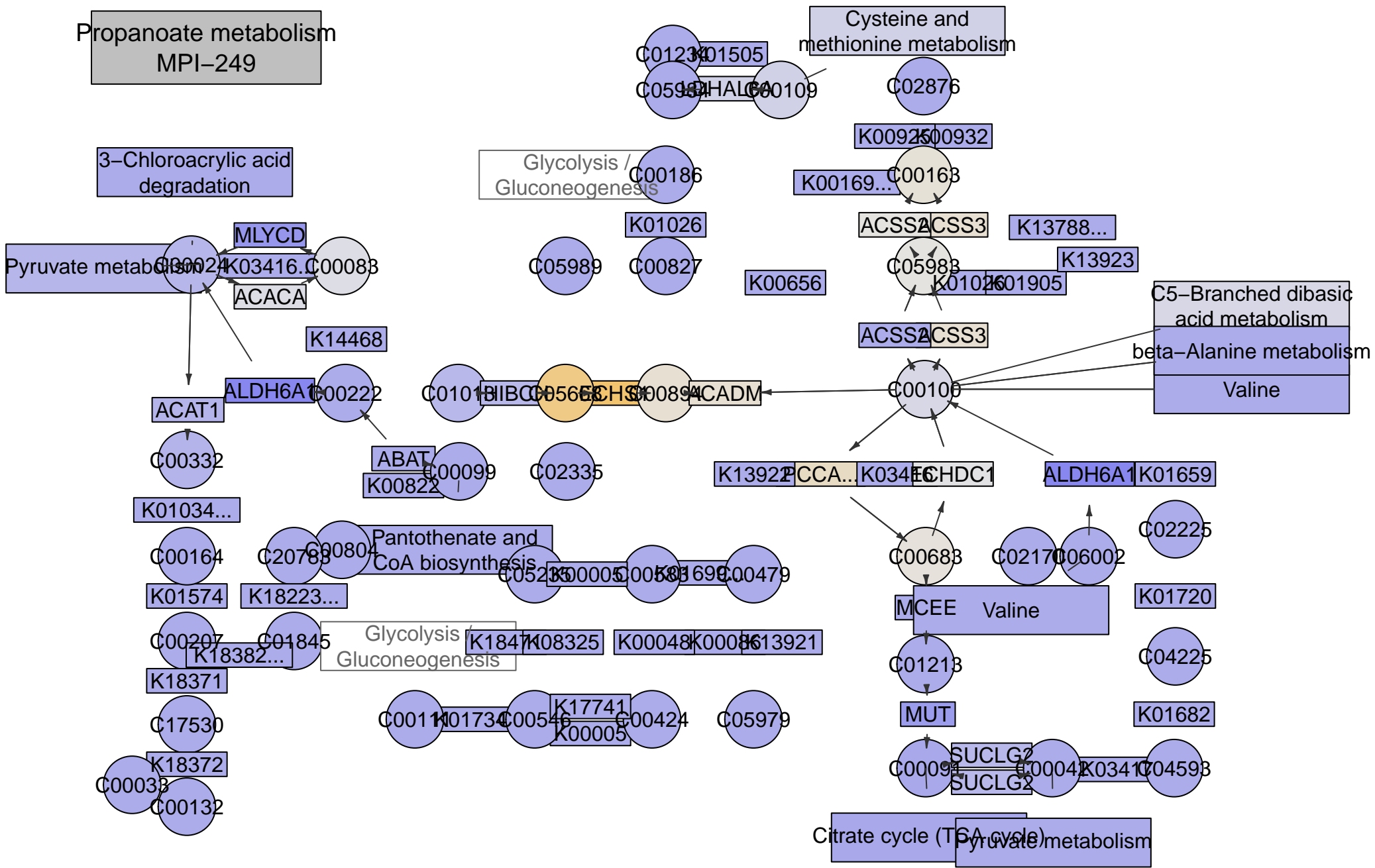


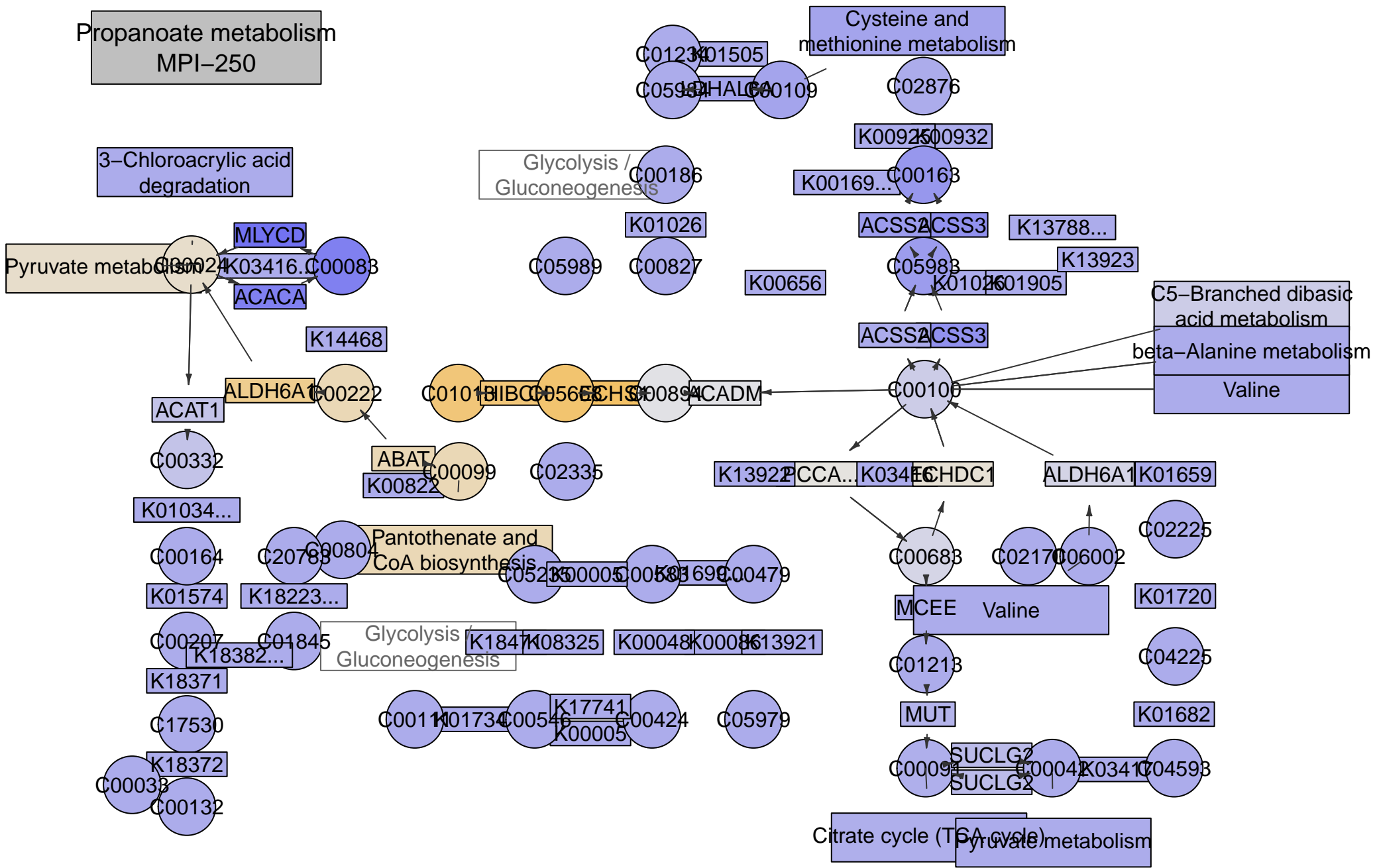


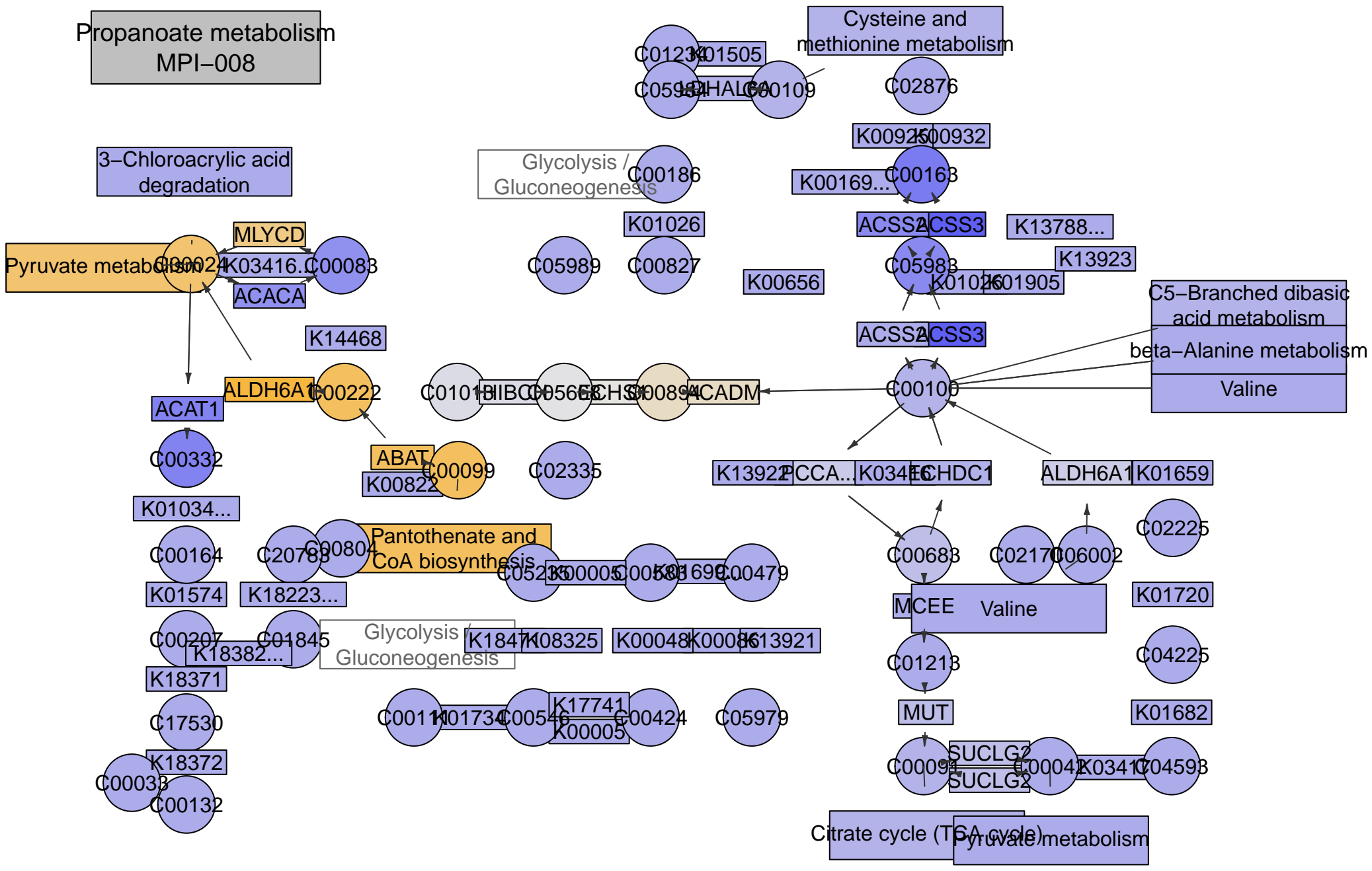


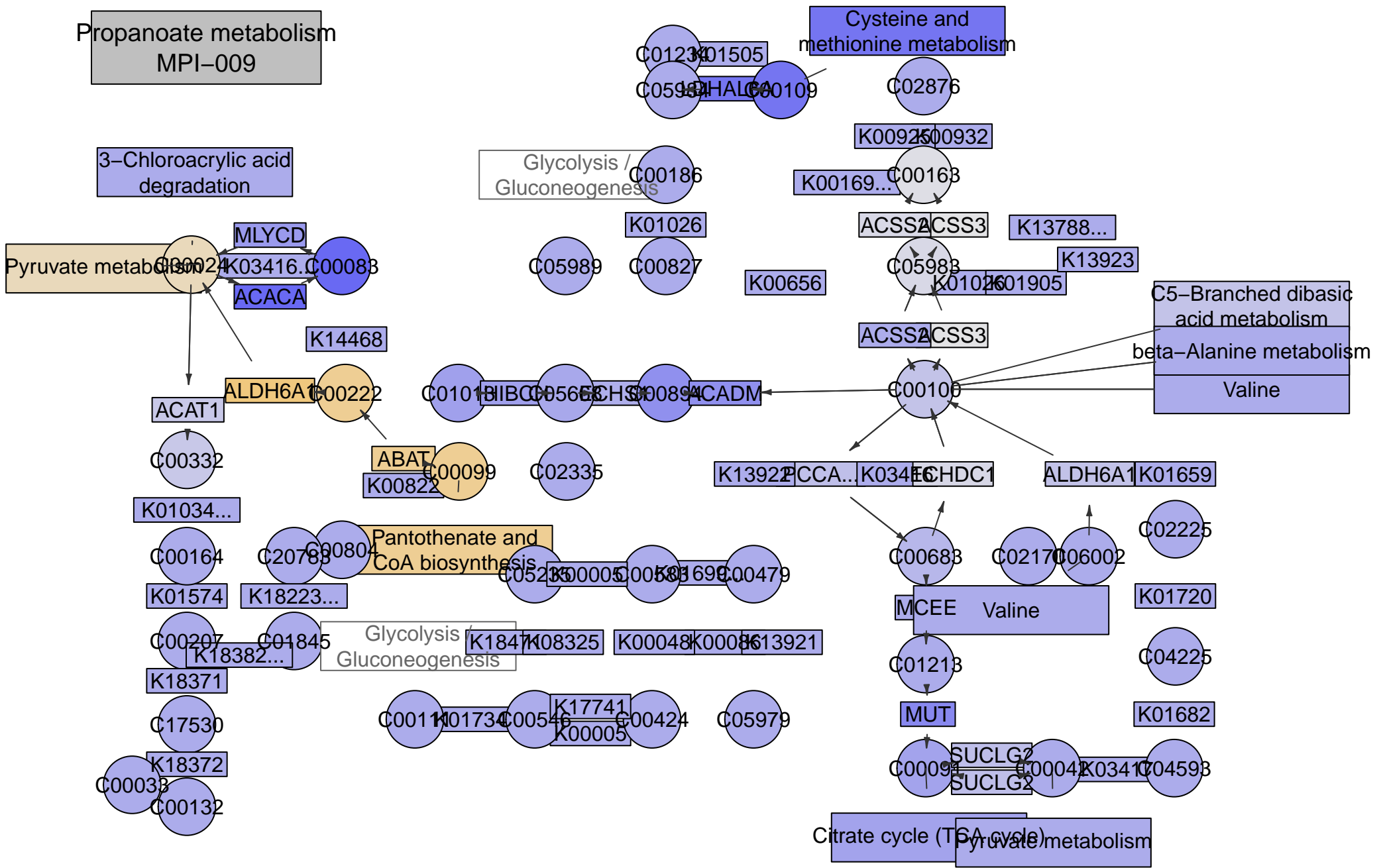


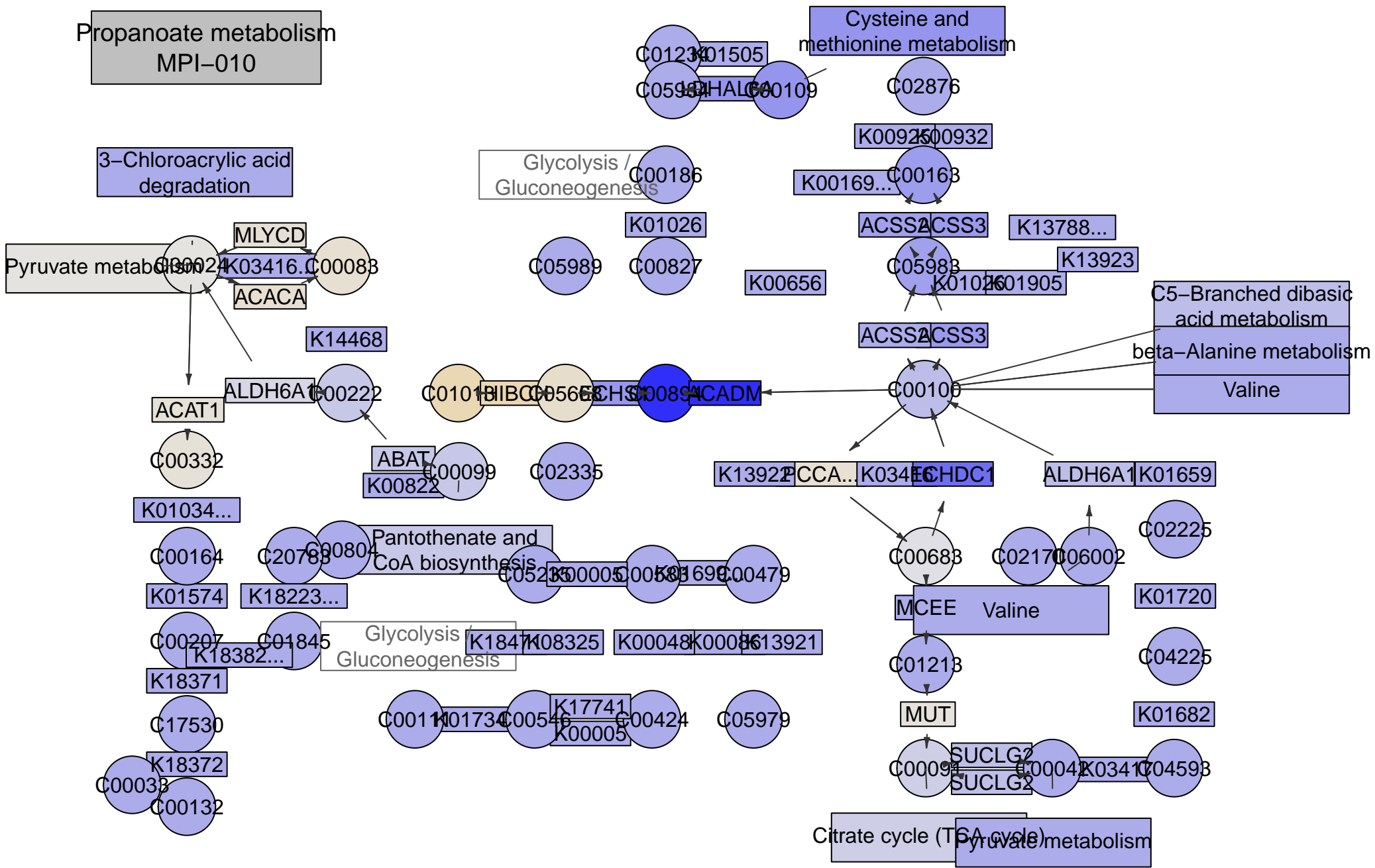


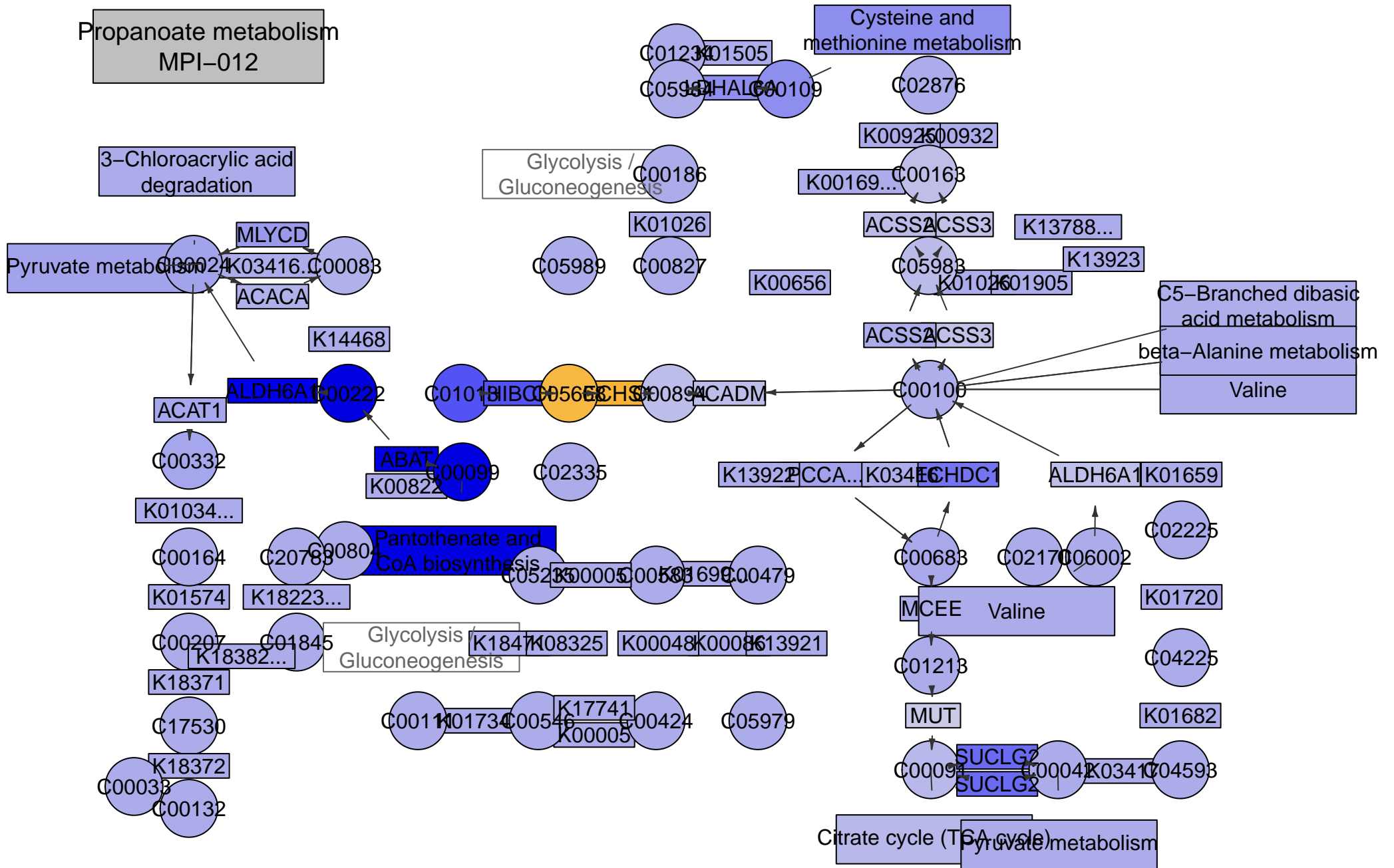


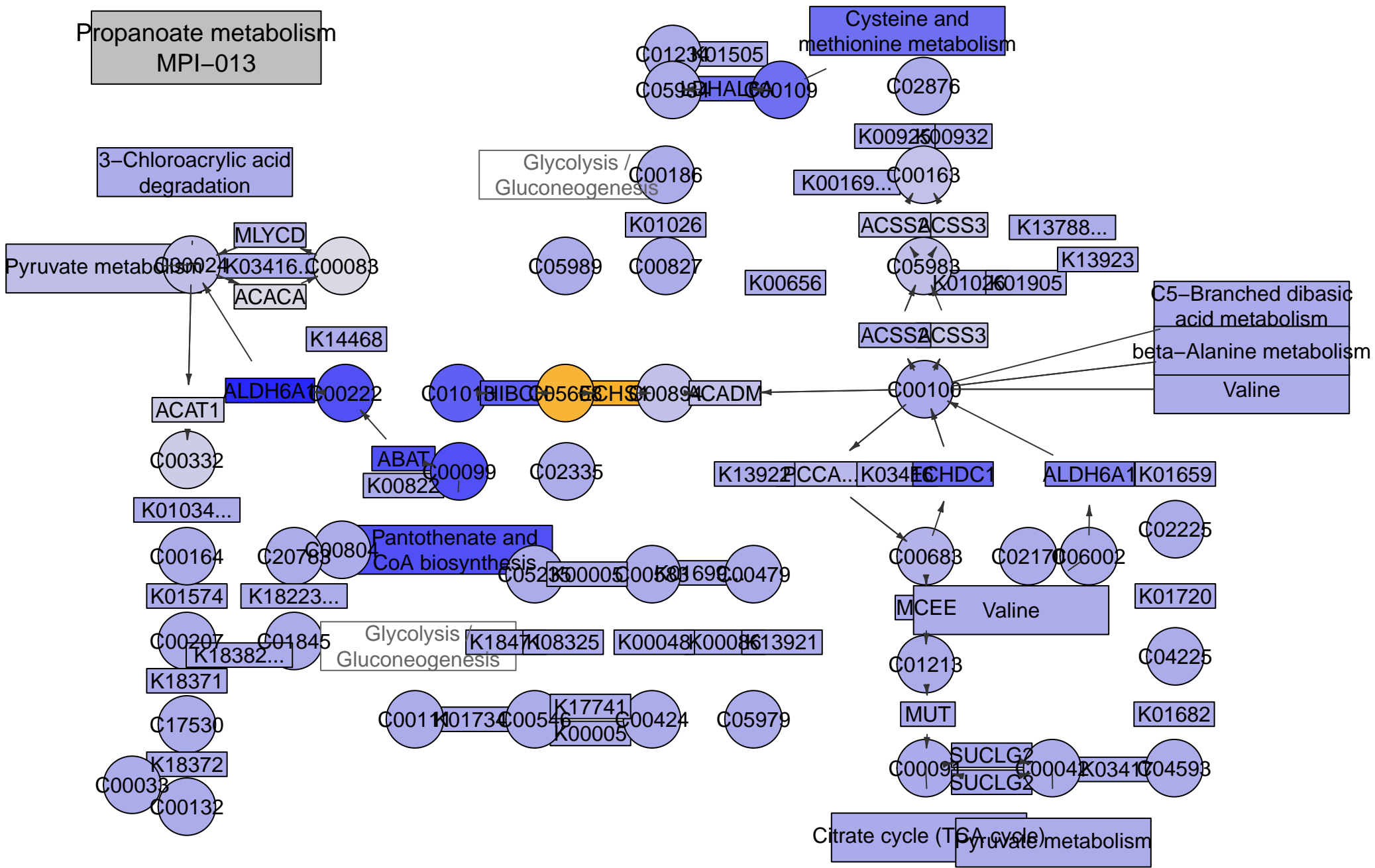


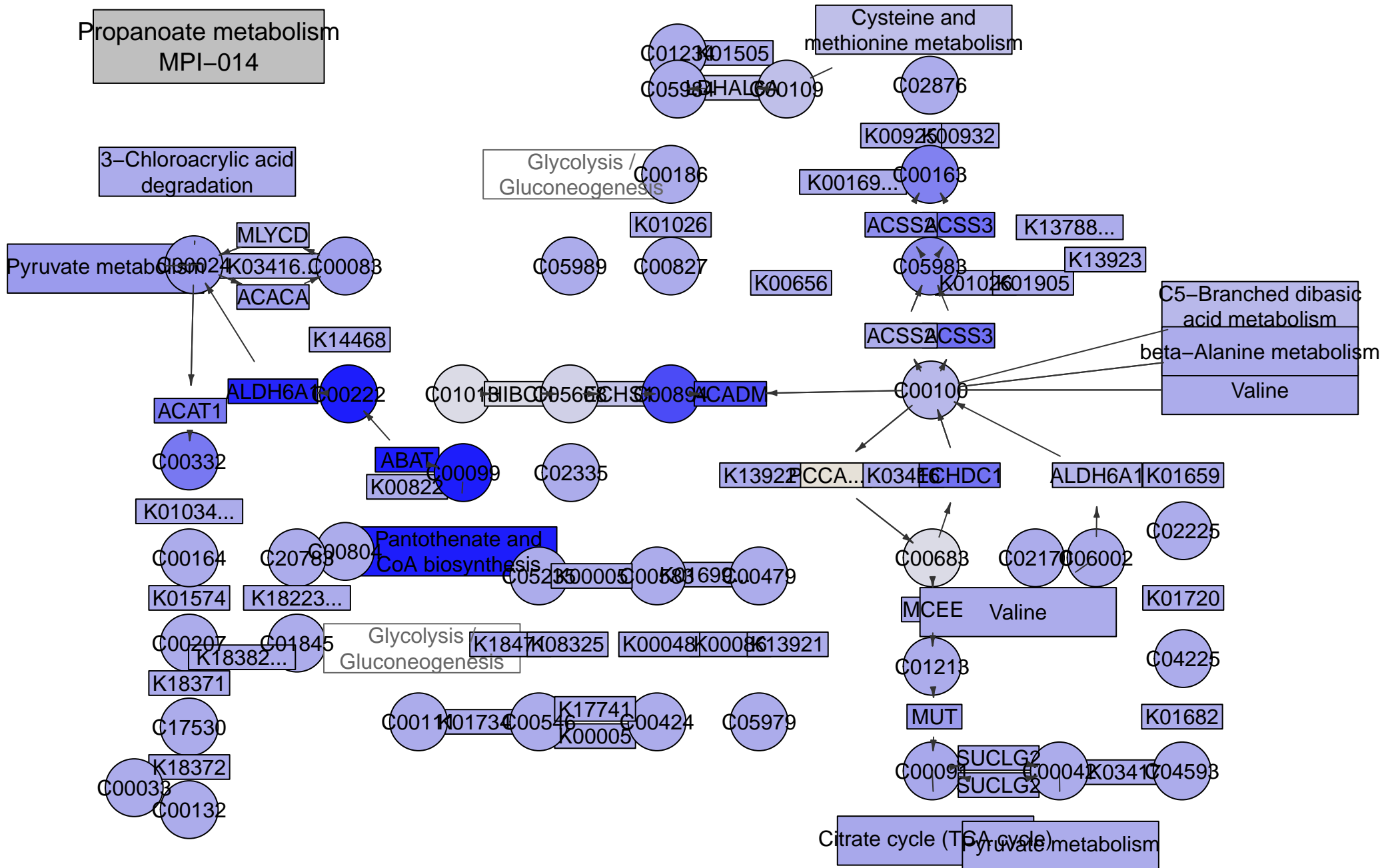


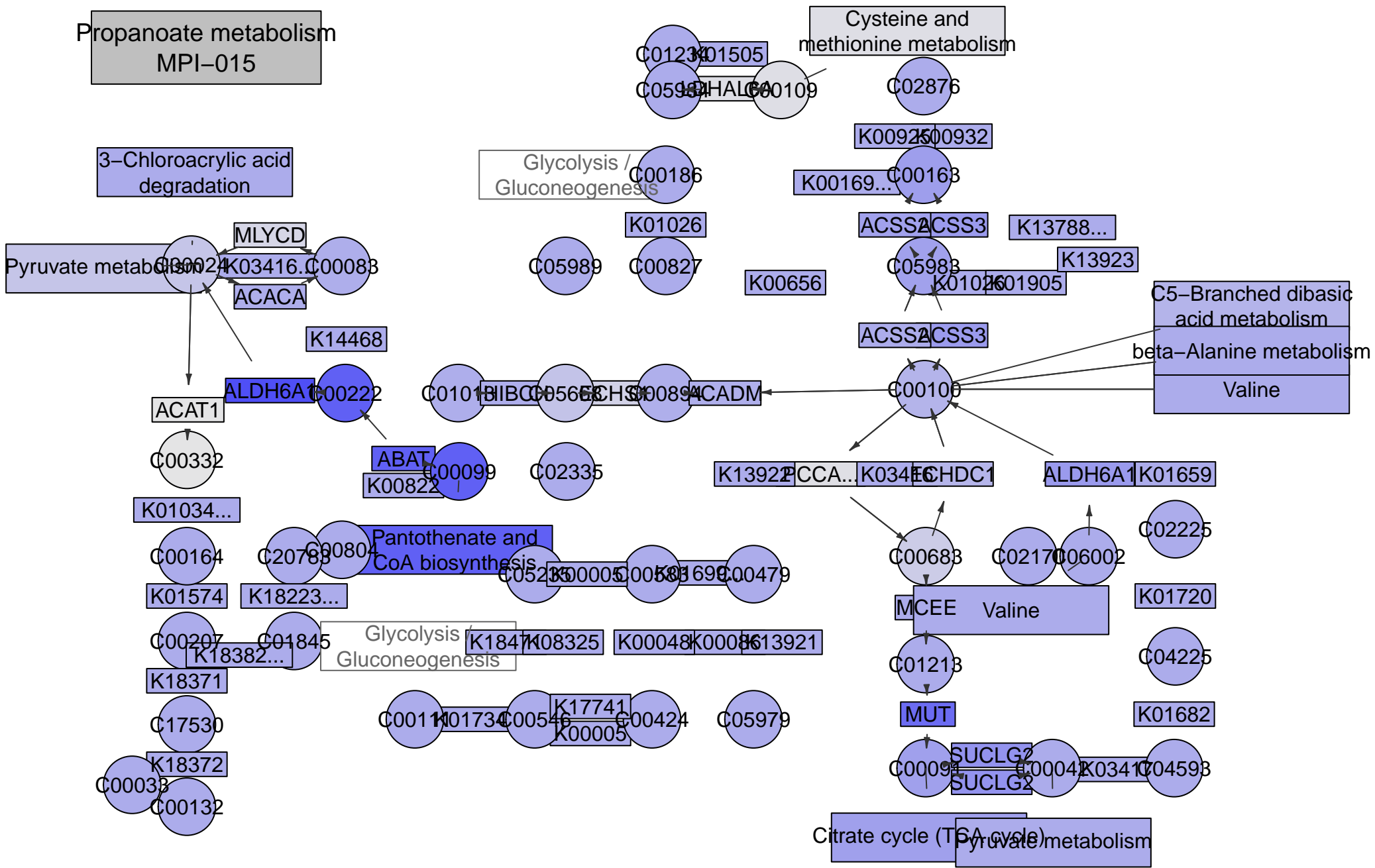


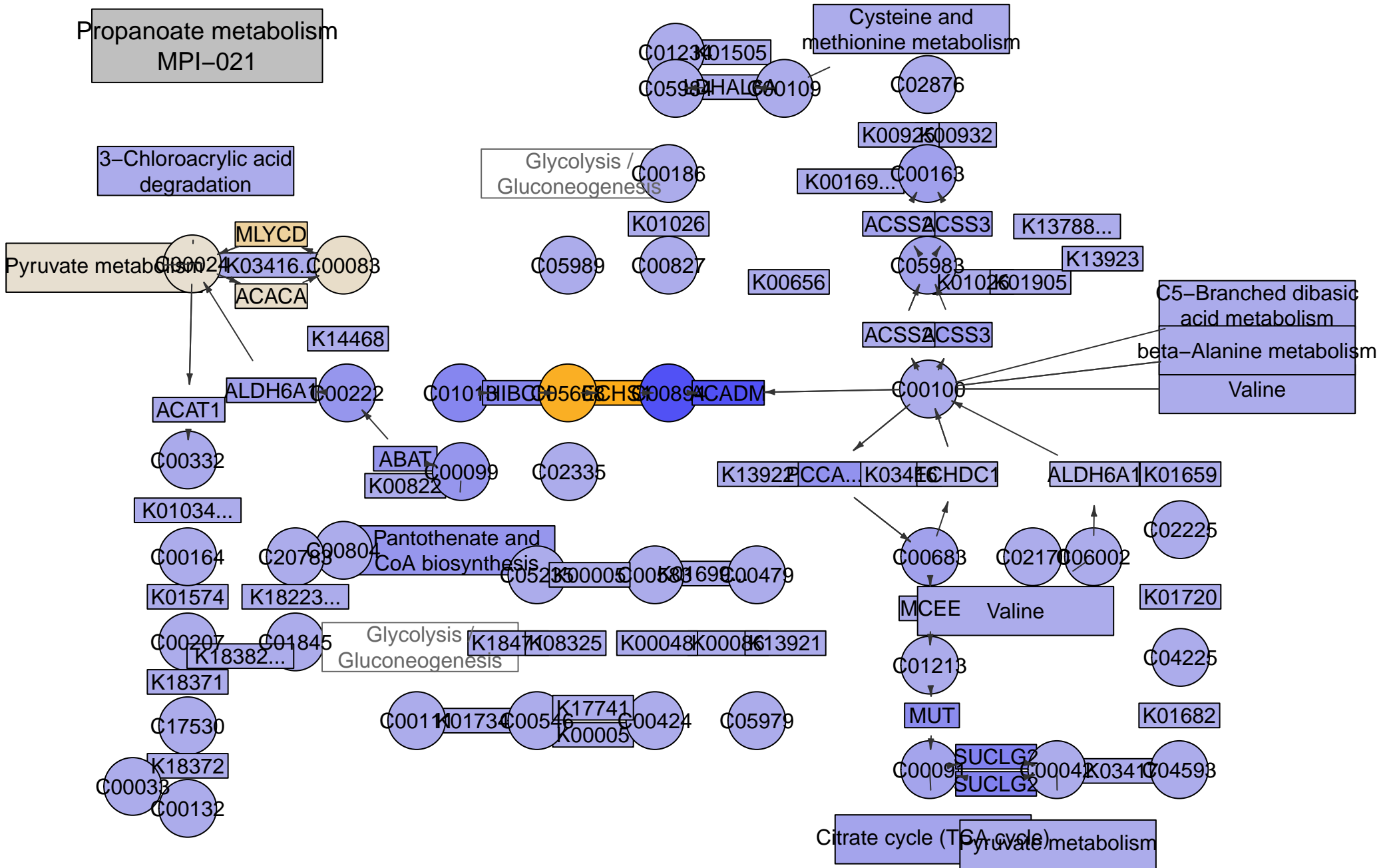


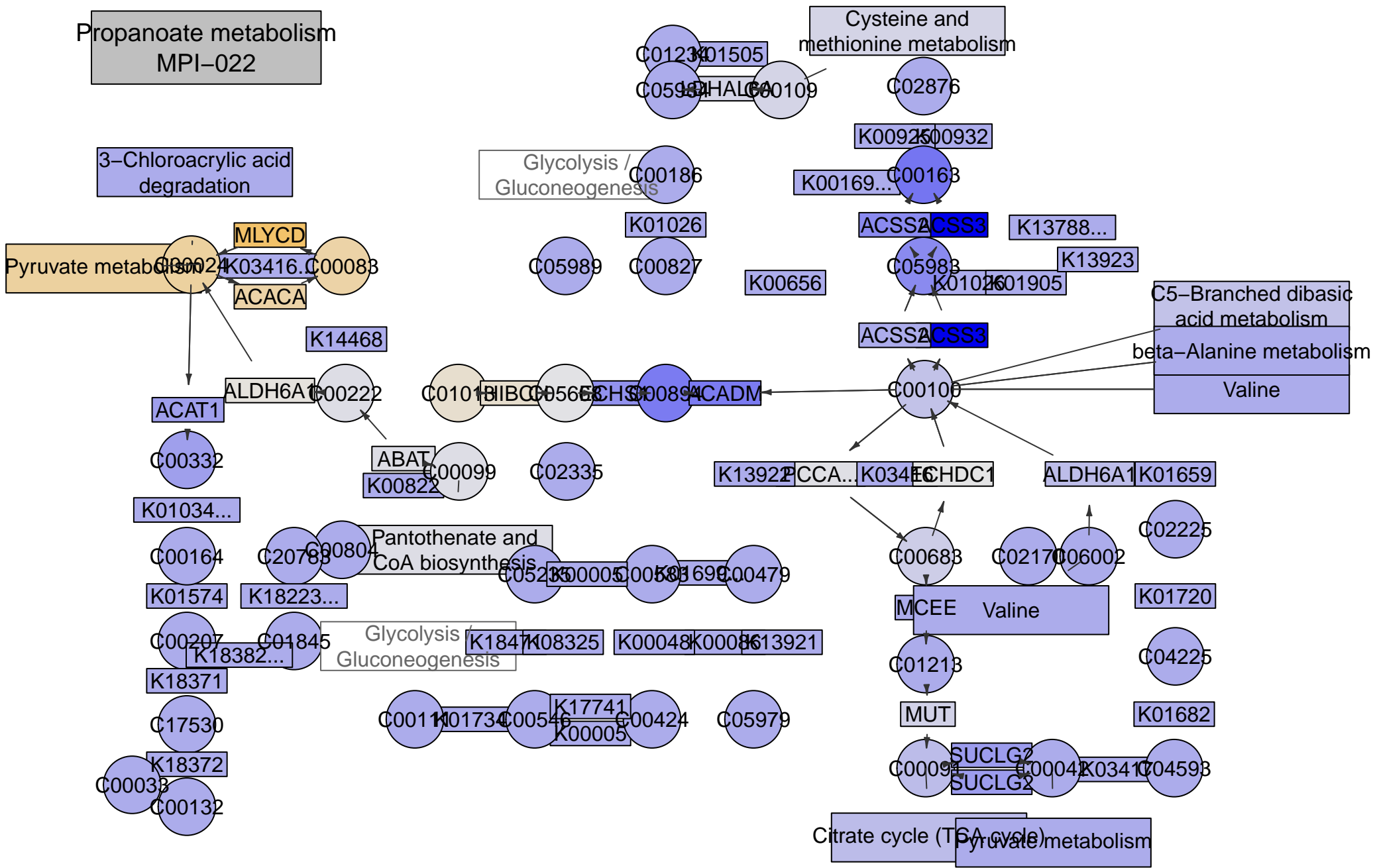


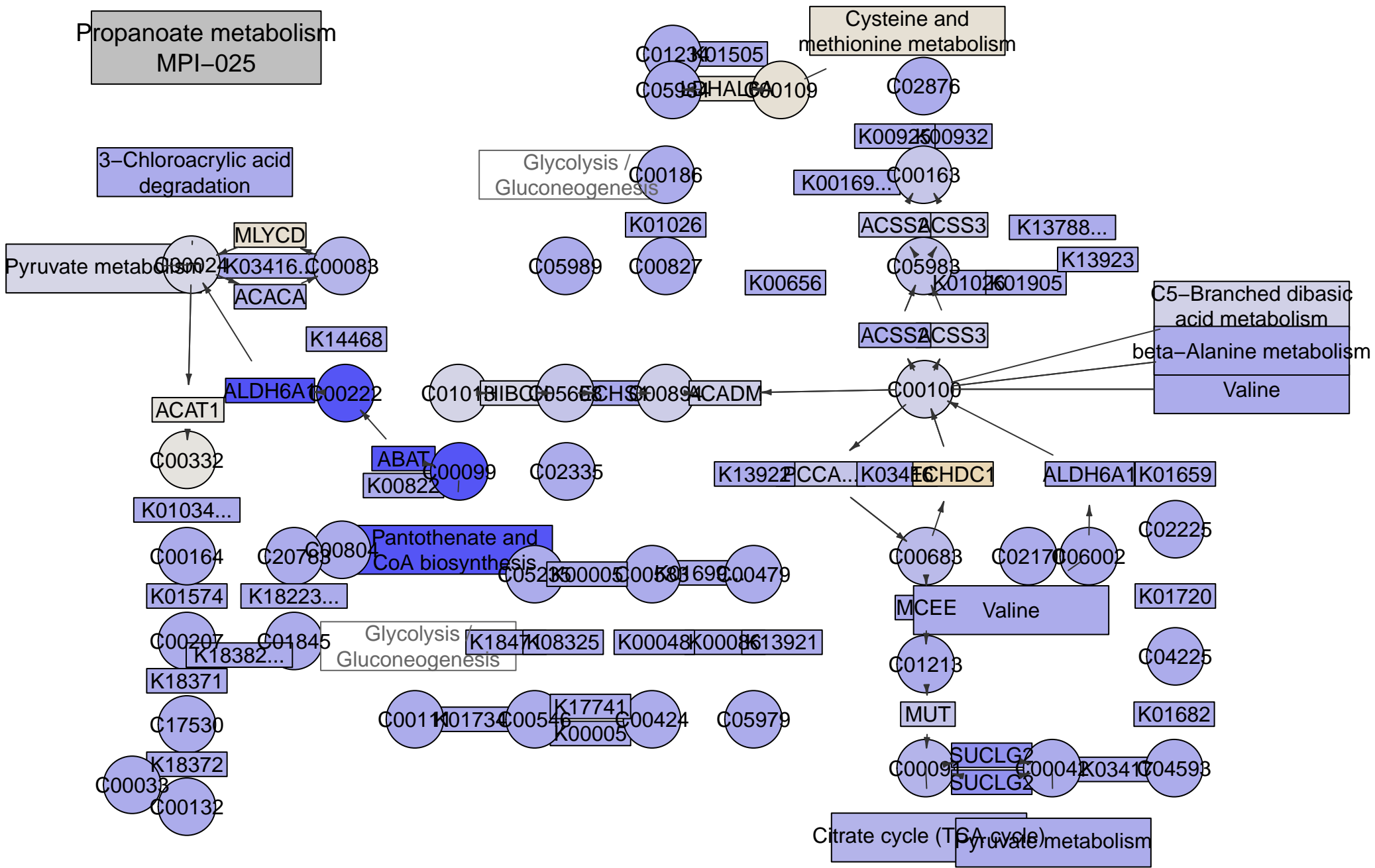


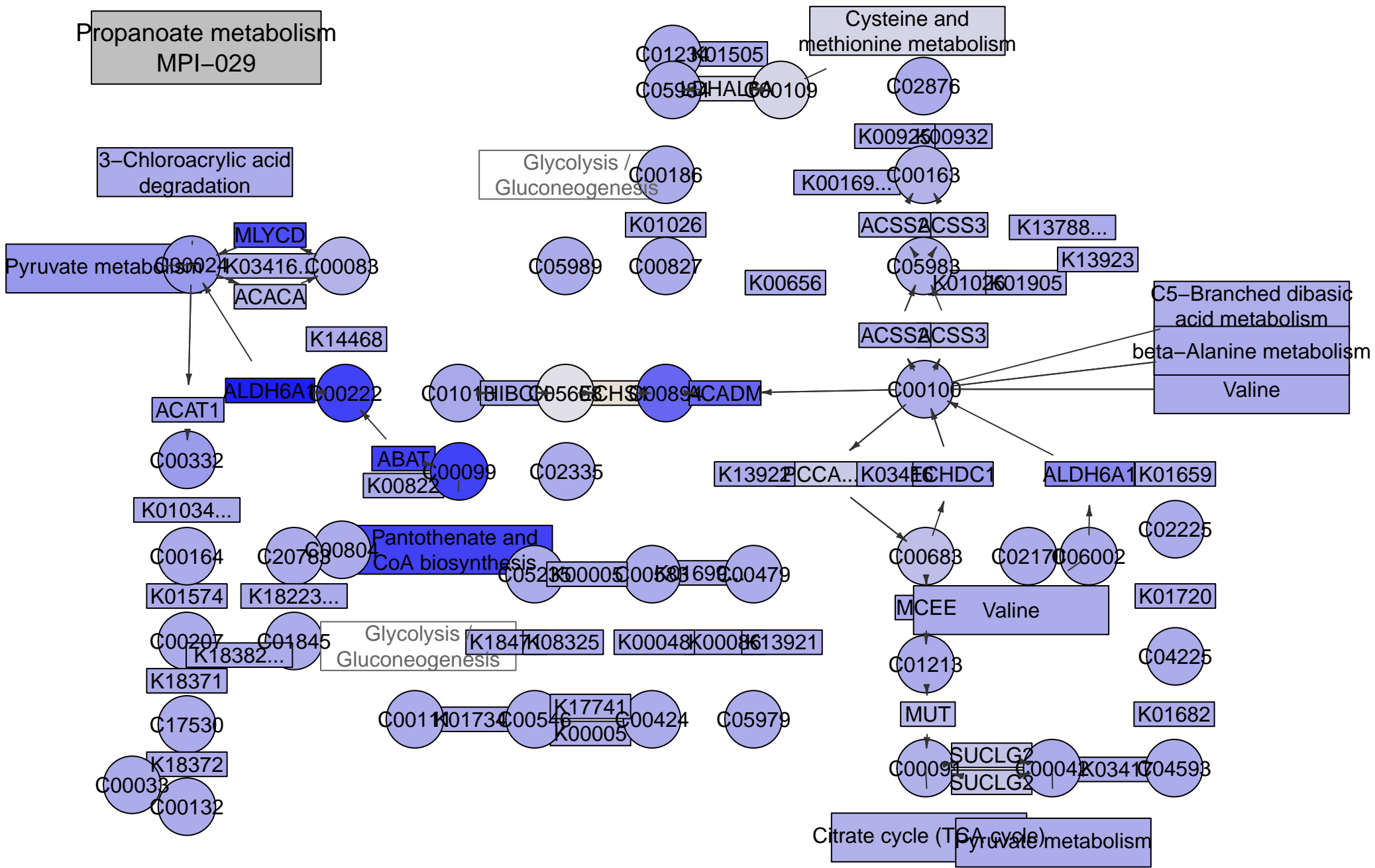


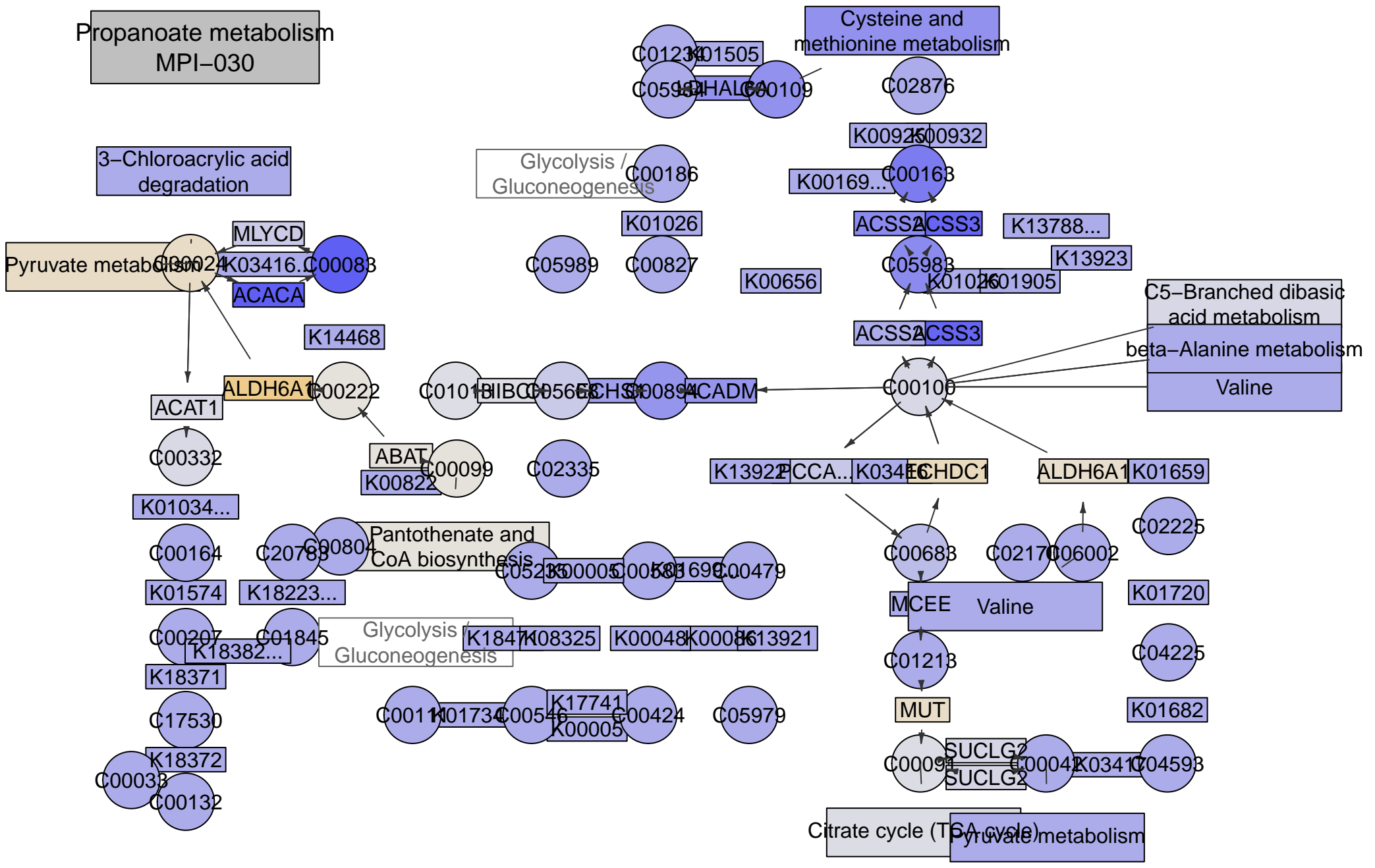


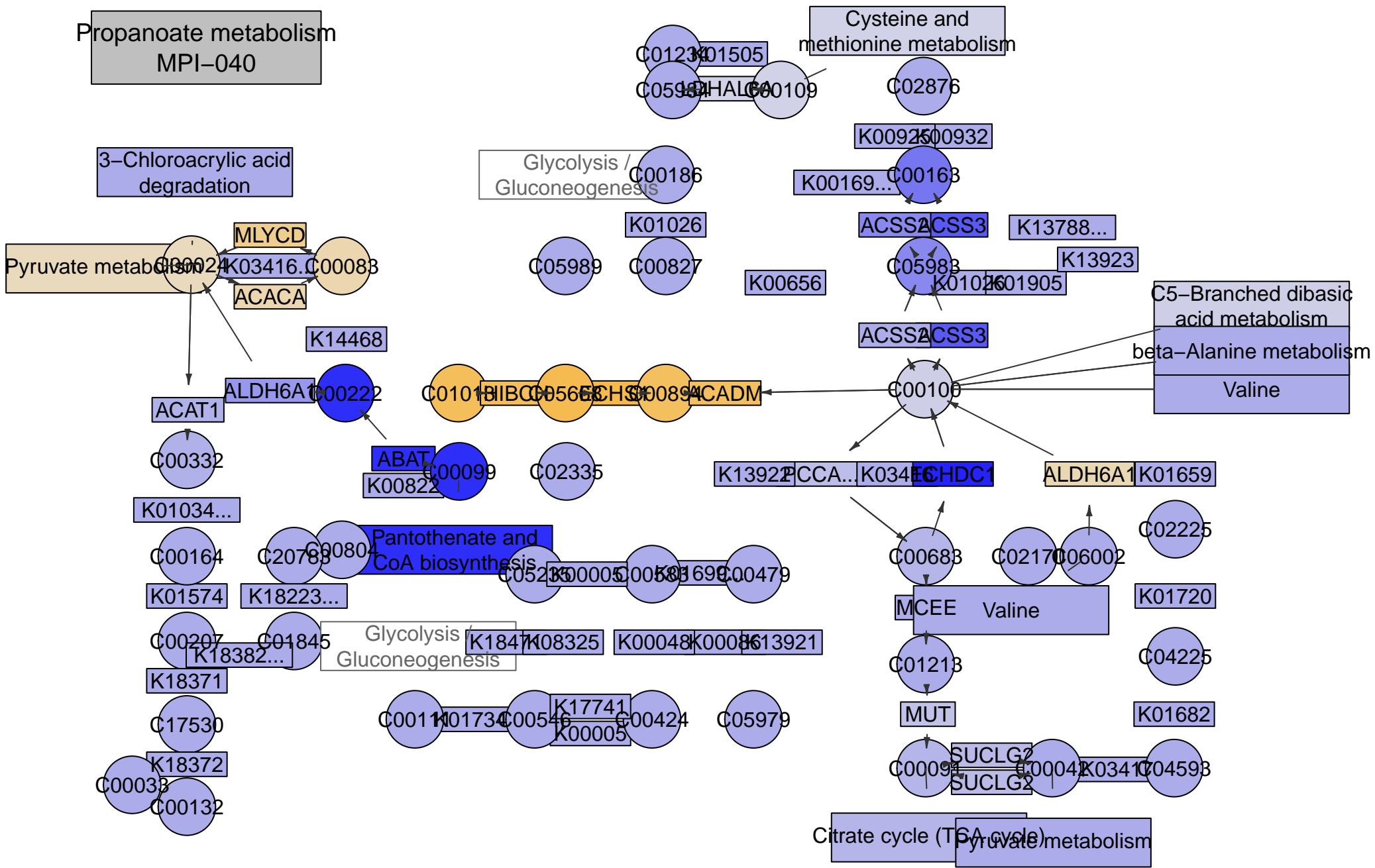


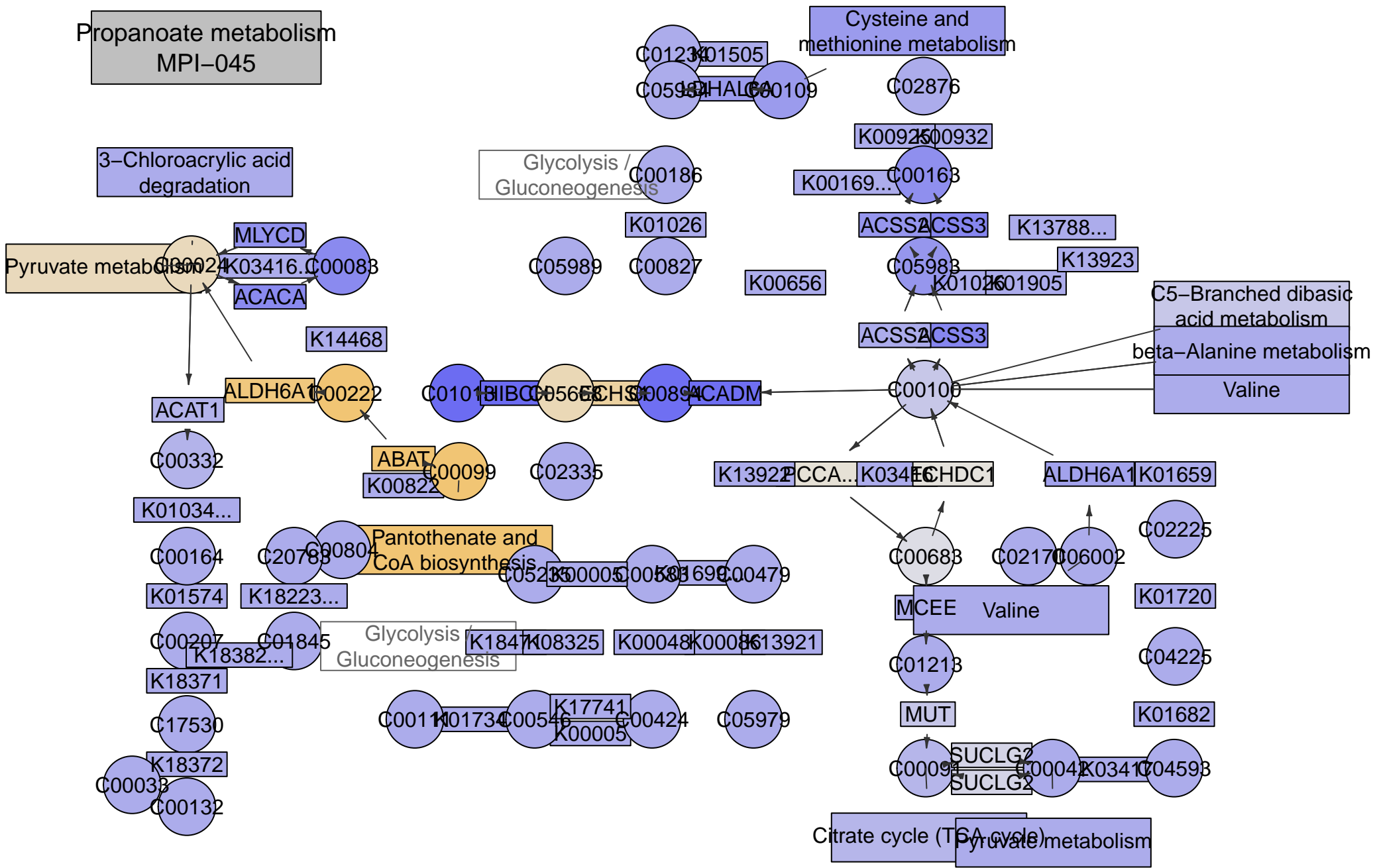


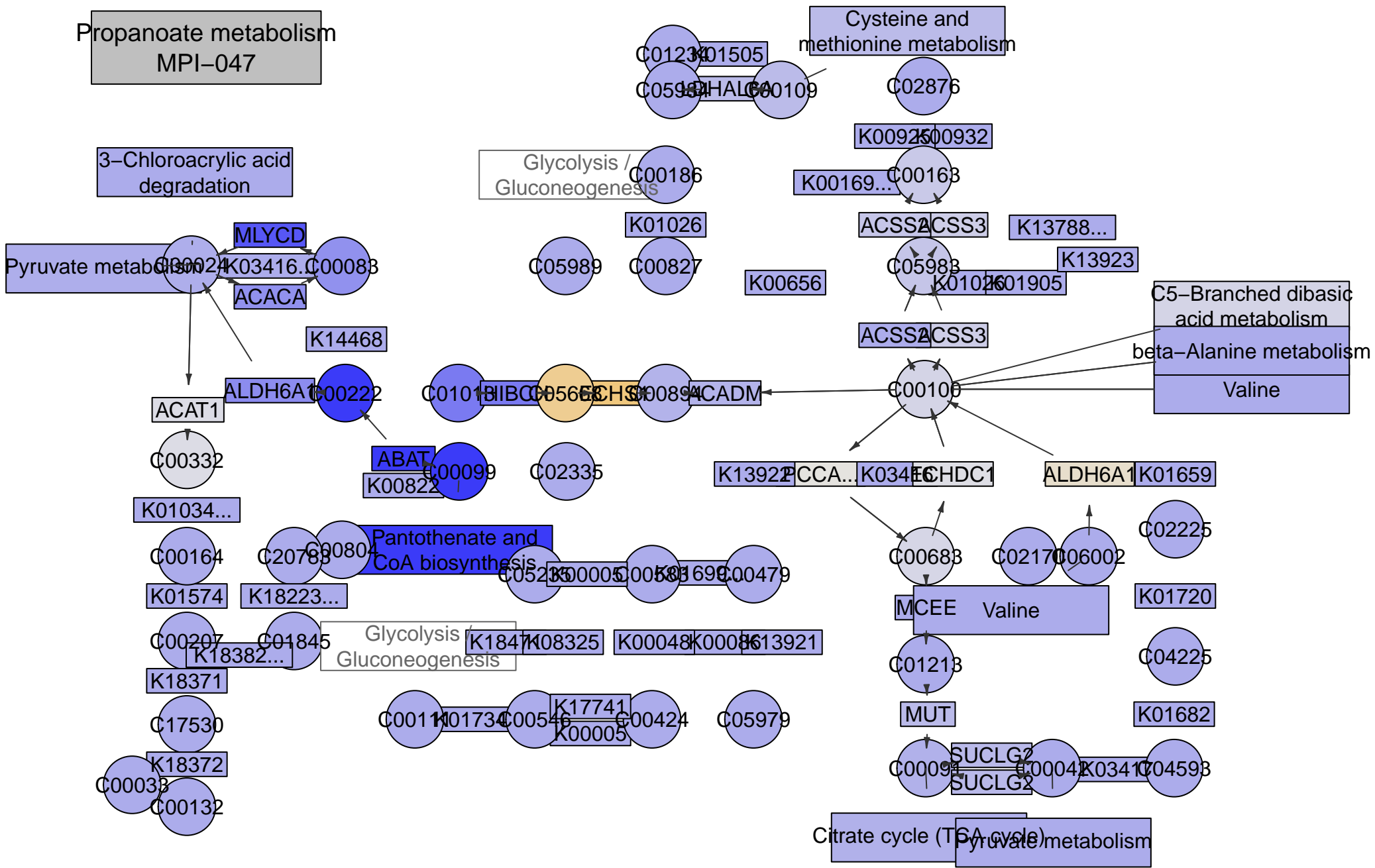


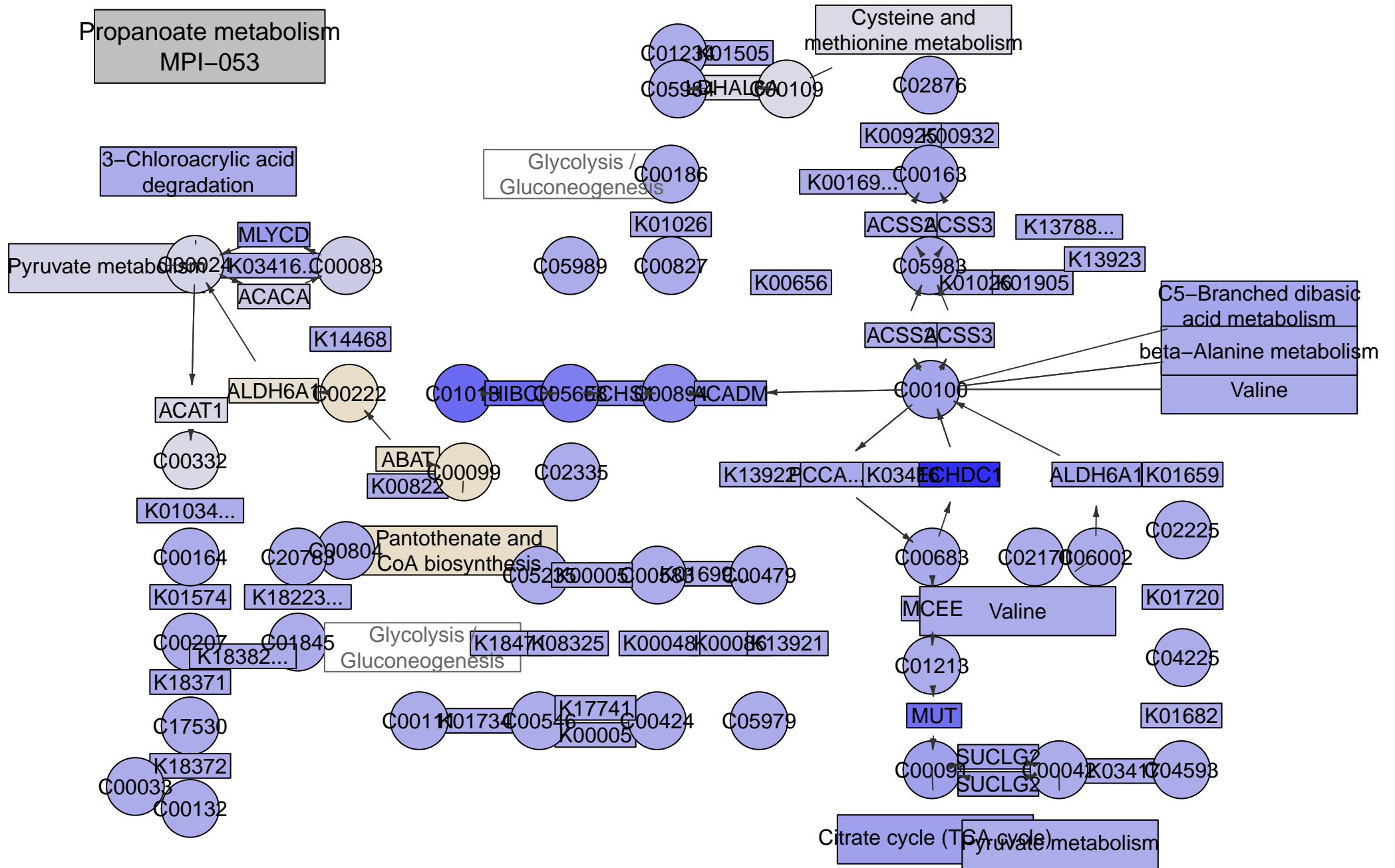


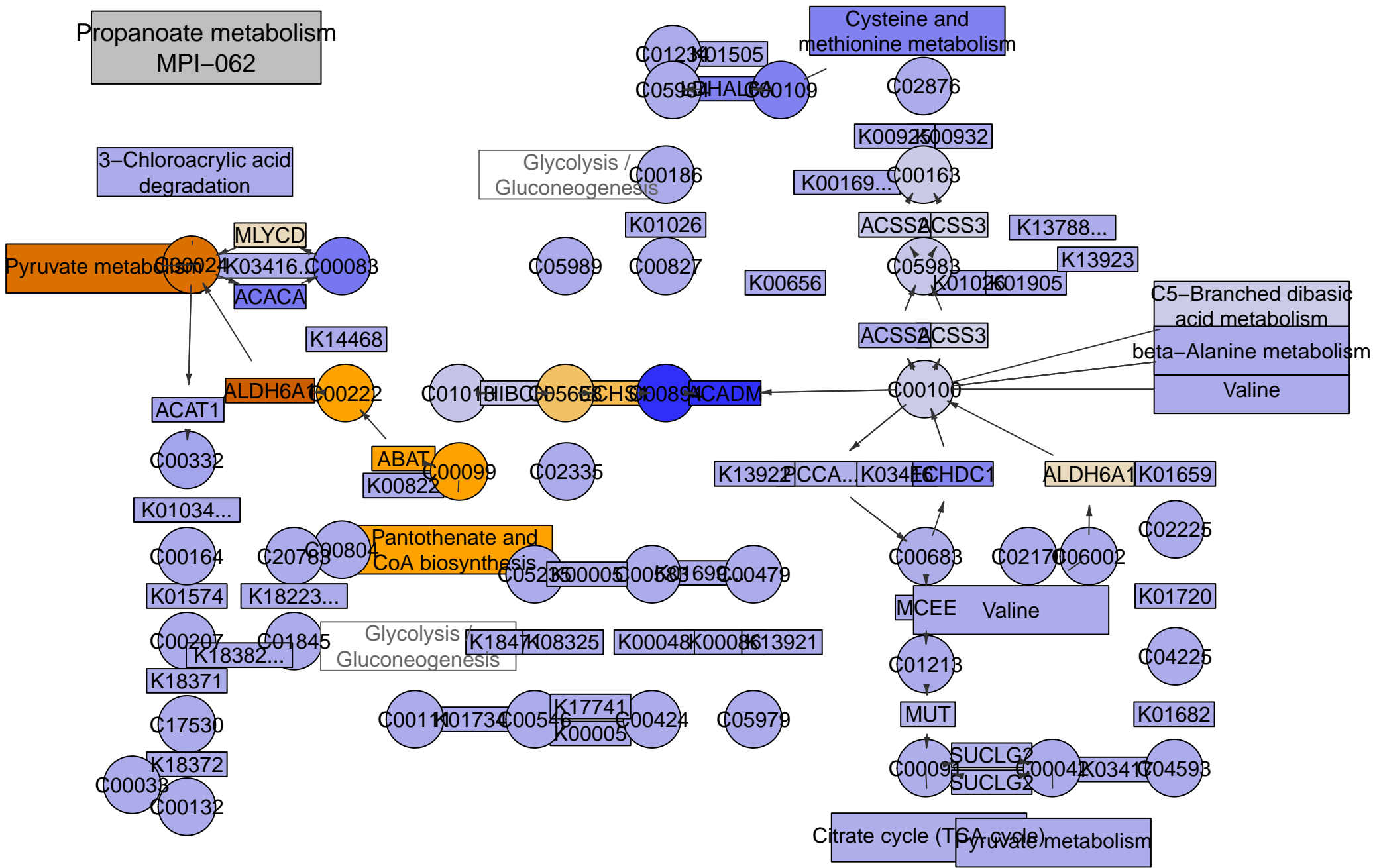


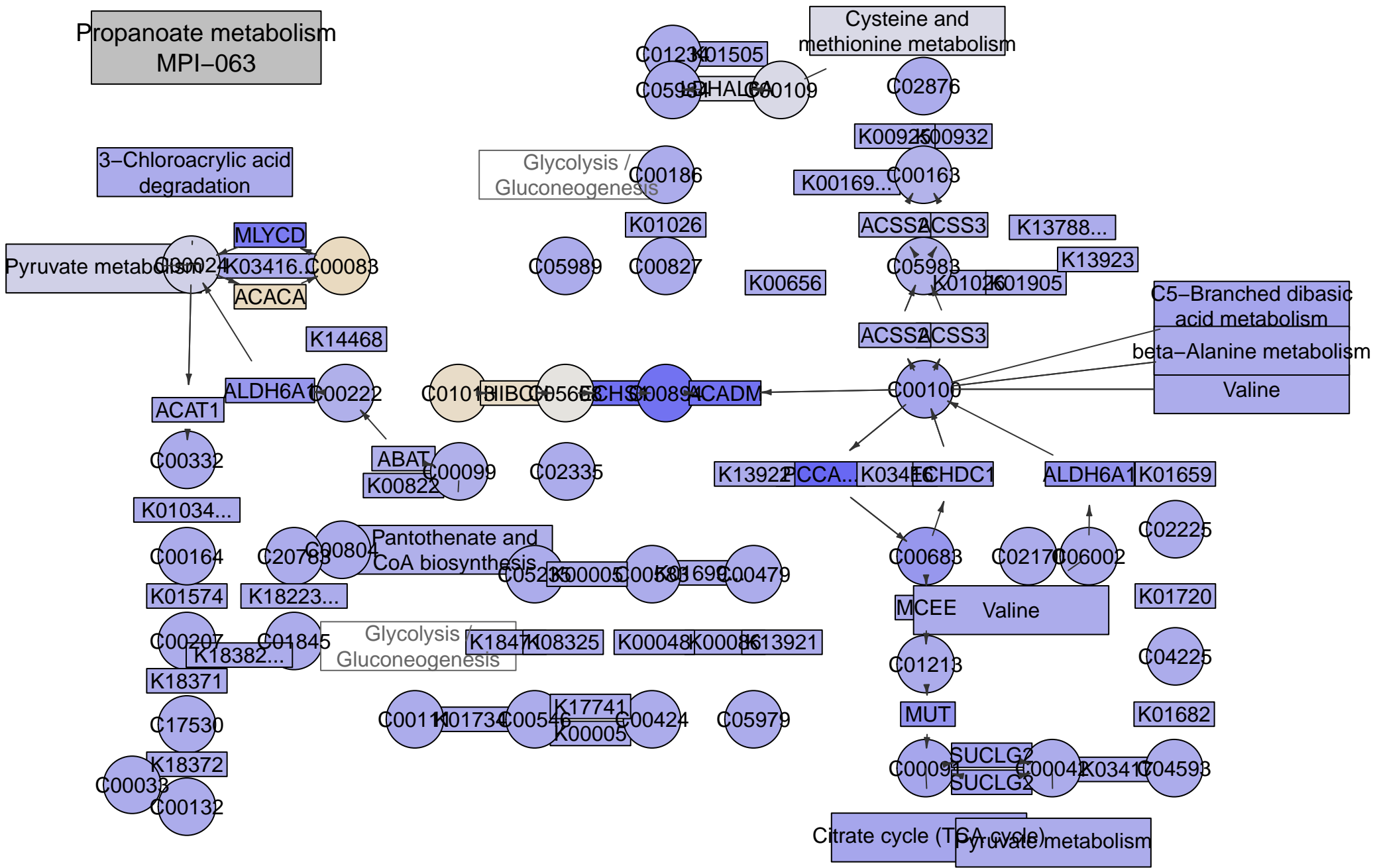


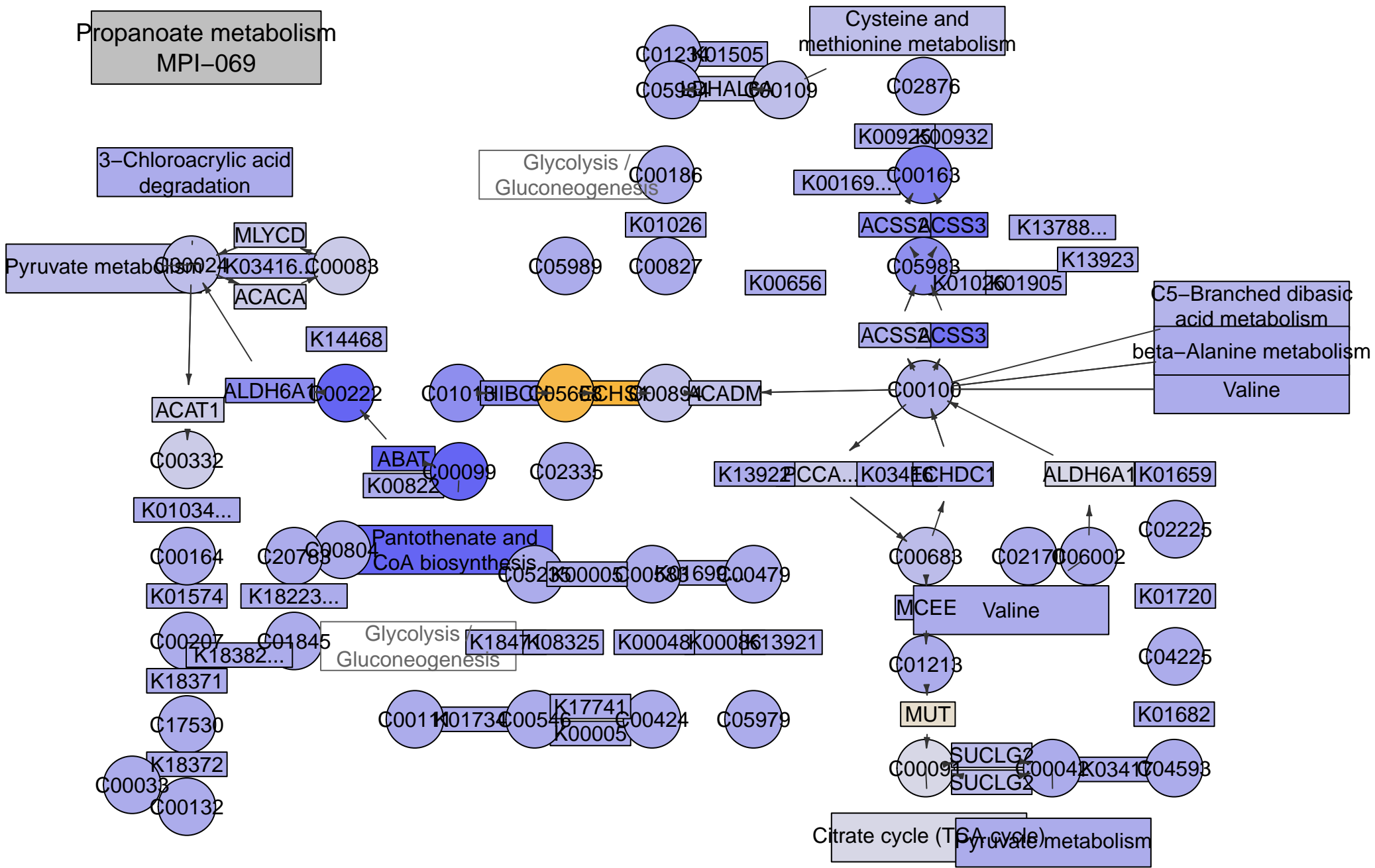


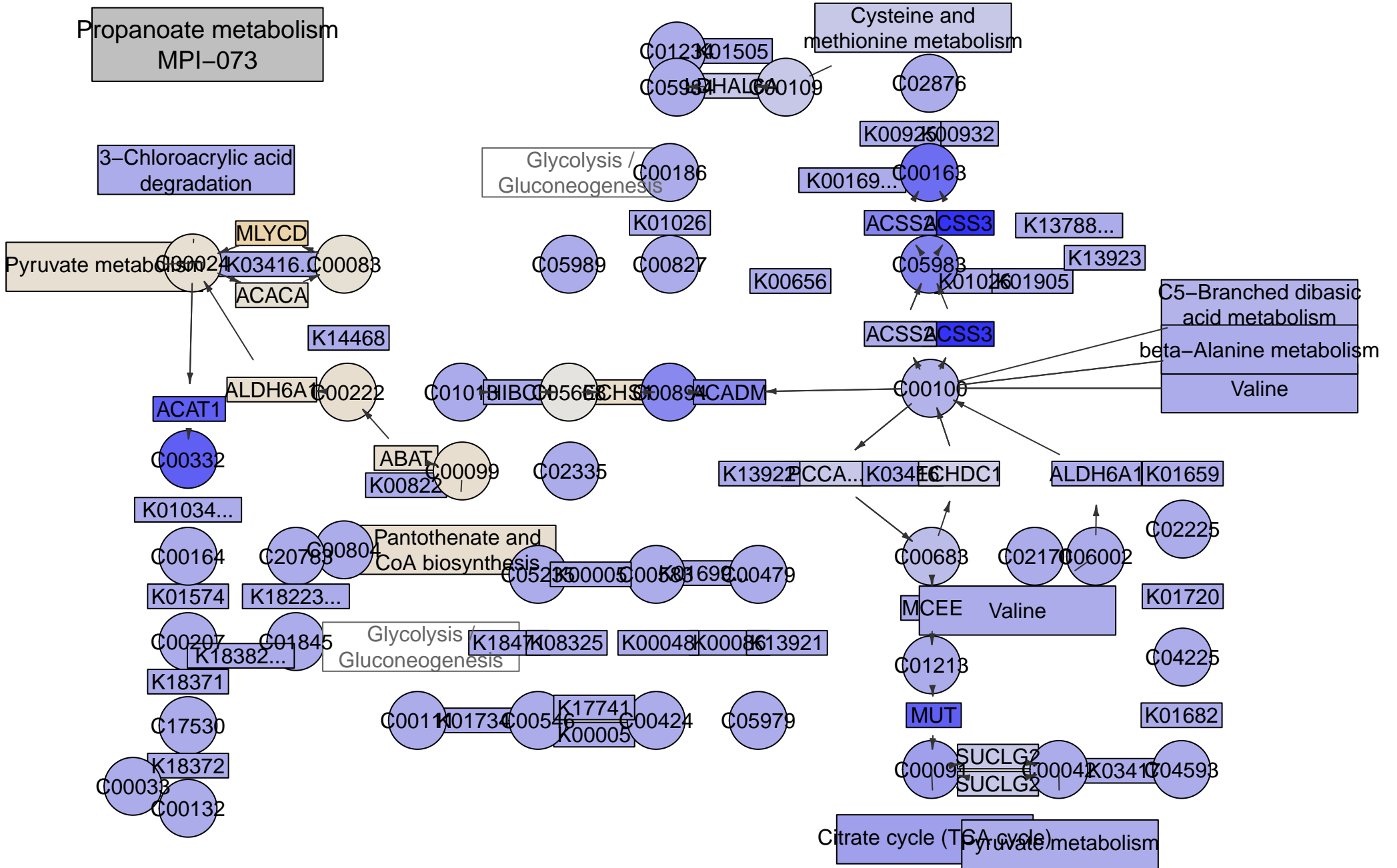


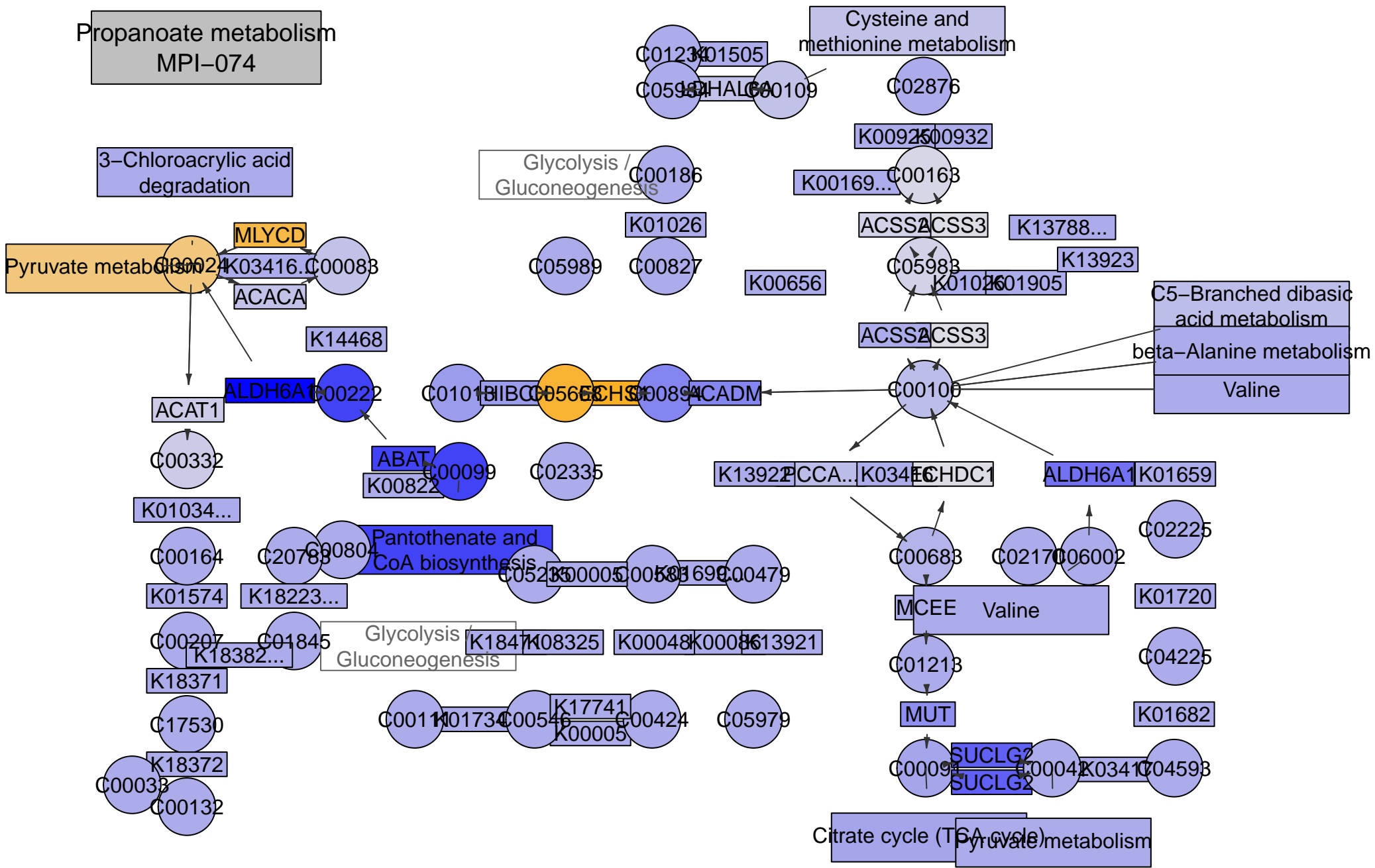


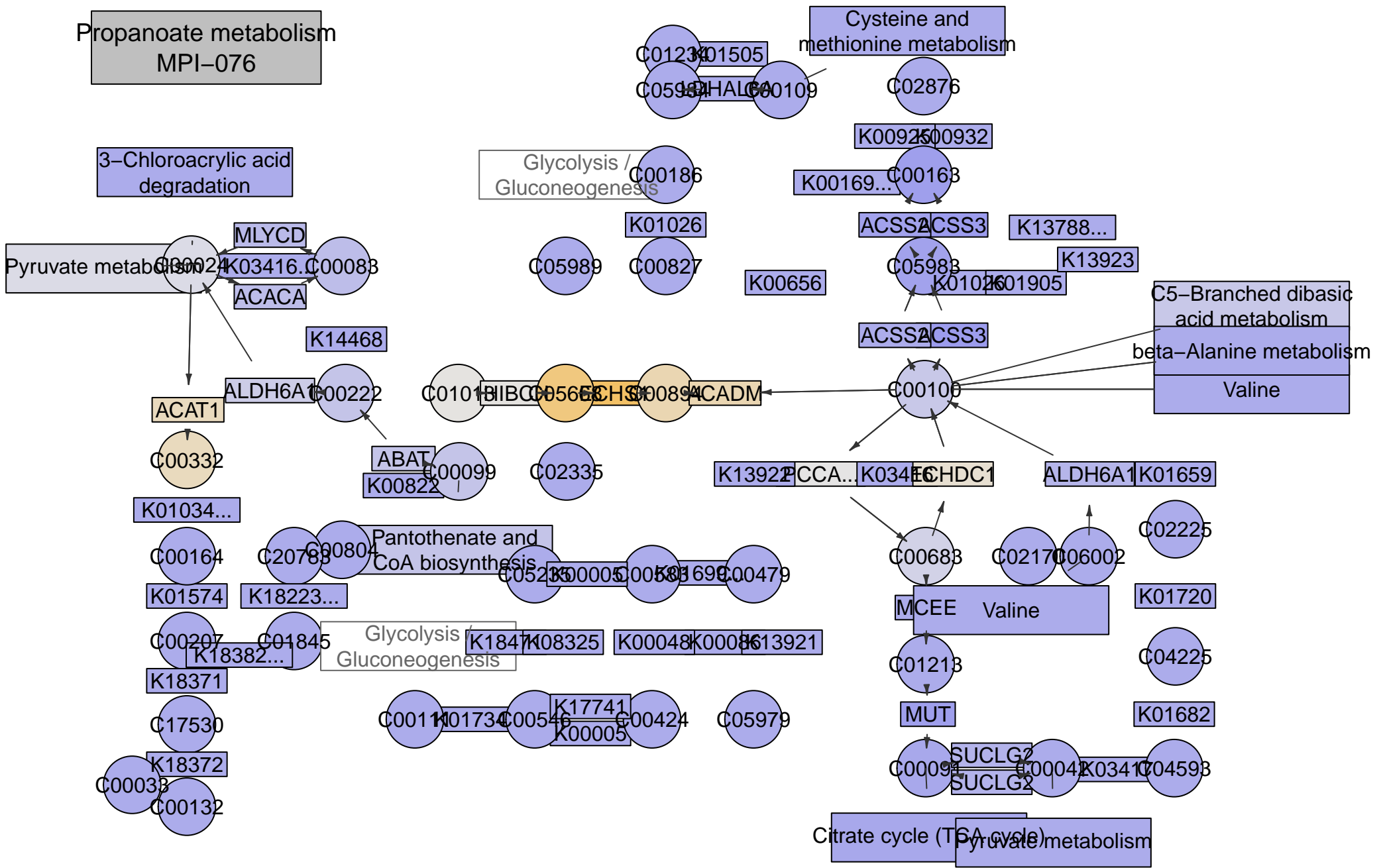


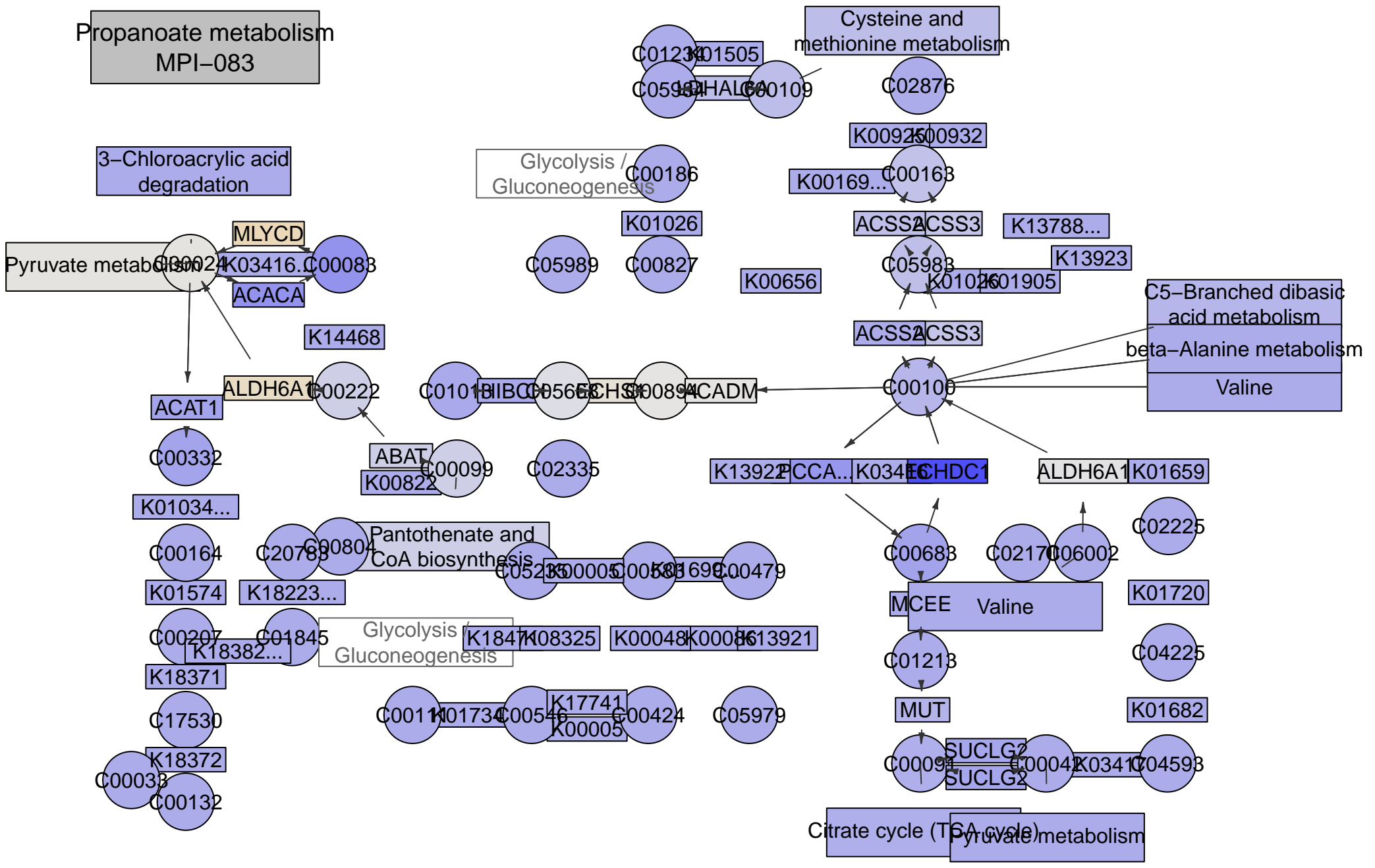


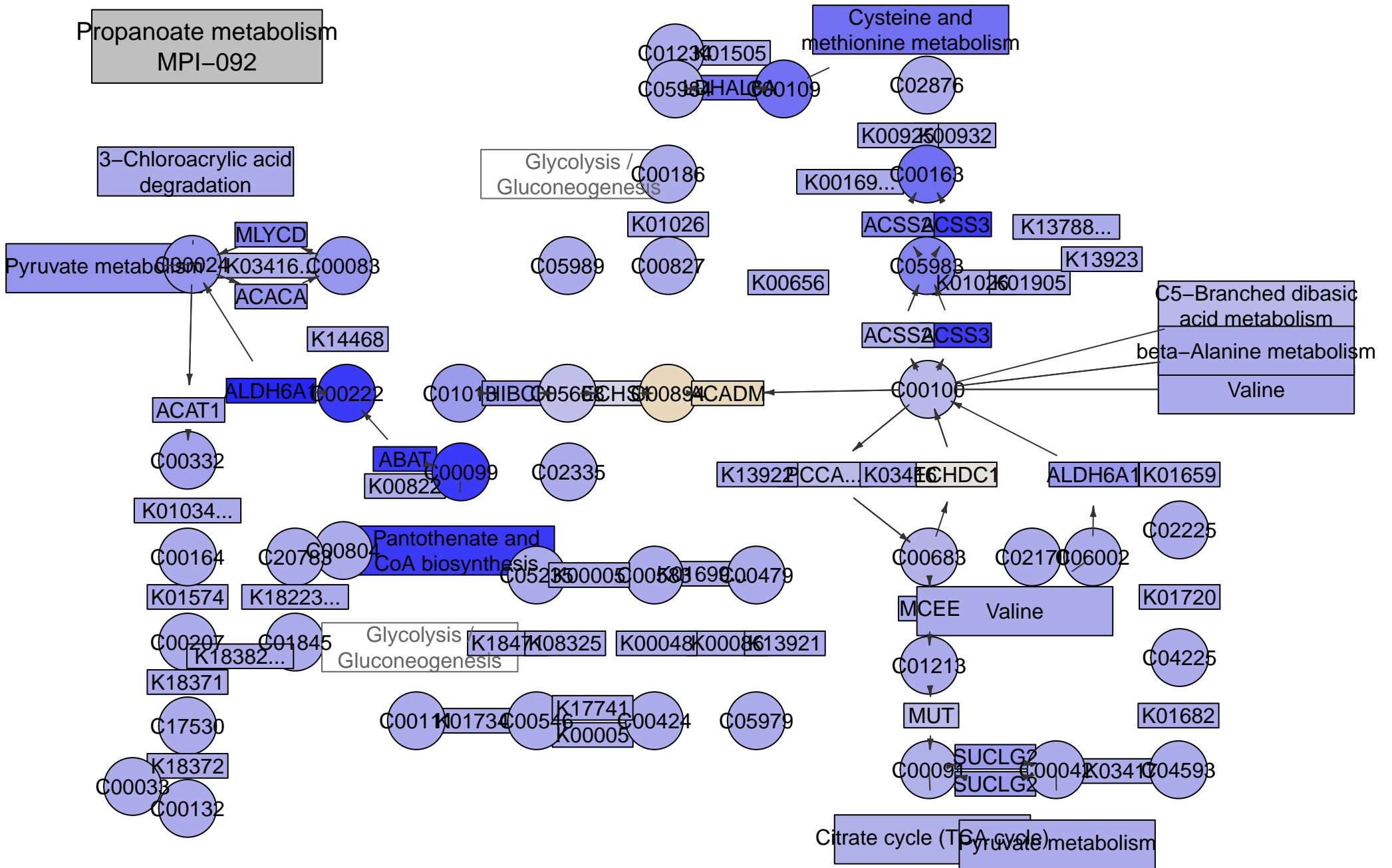


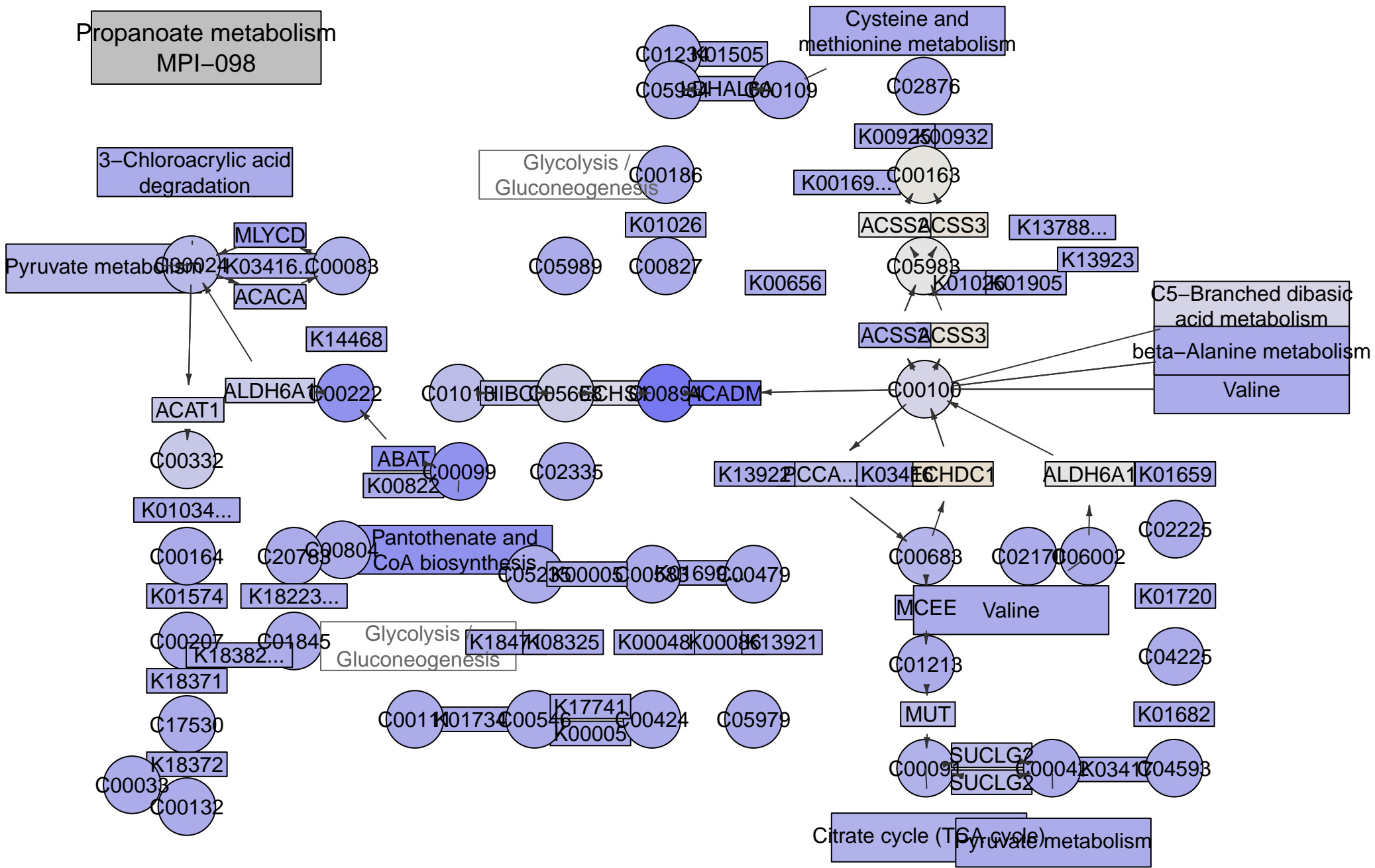


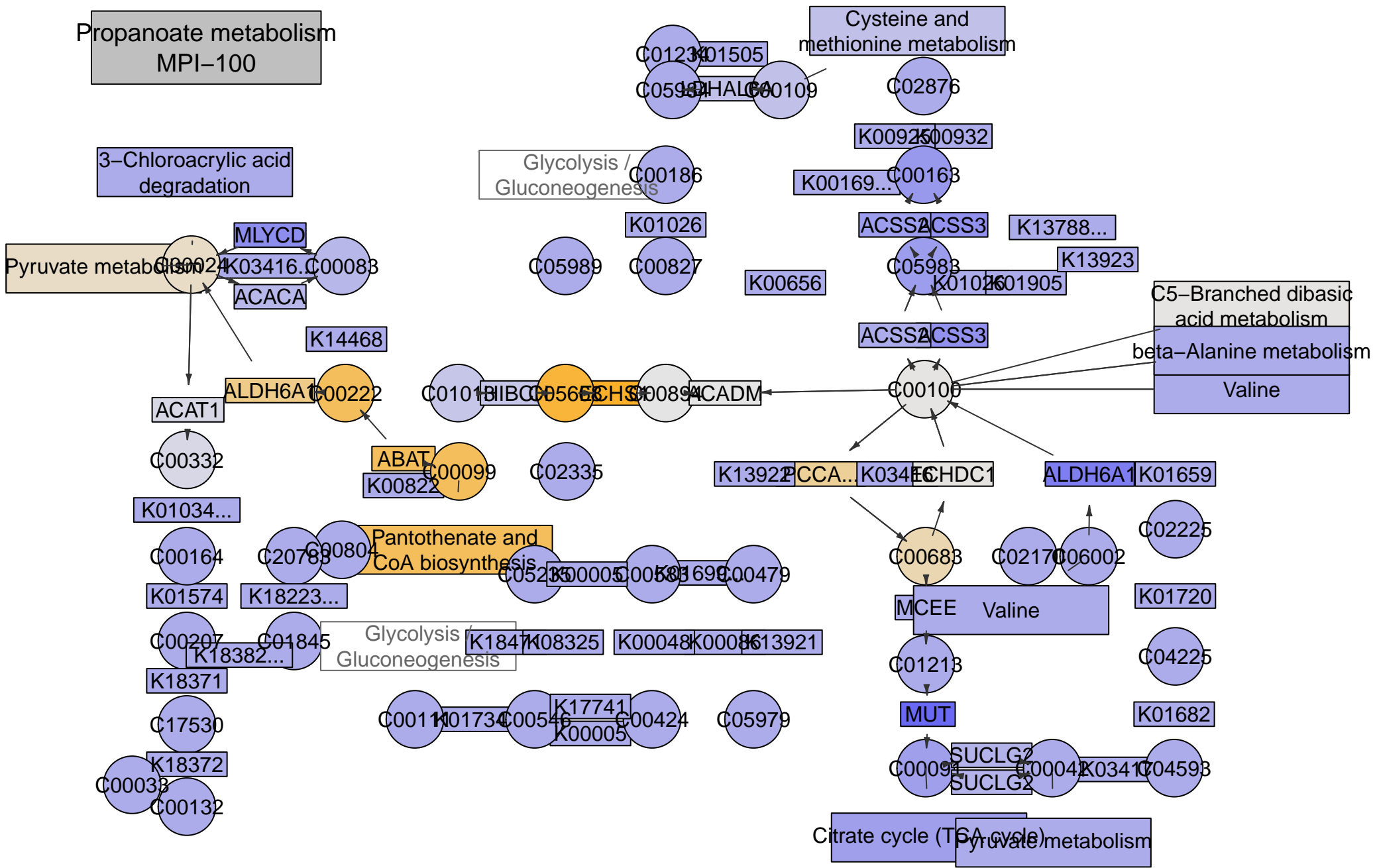












Propanoate metabolism
MPI-105

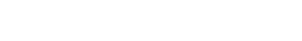
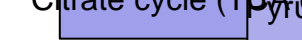
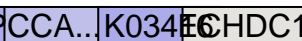
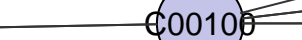
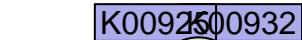
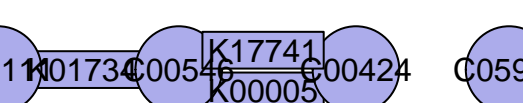
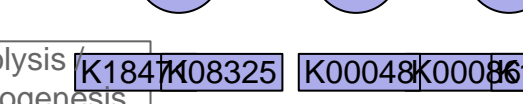
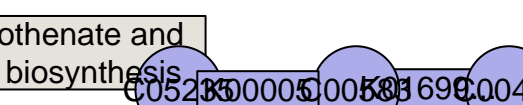
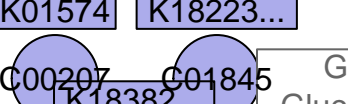
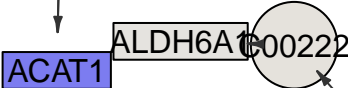
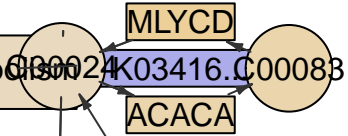
Cysteine and
methionine metabolism

3-Chloroacrylic acid
degradation

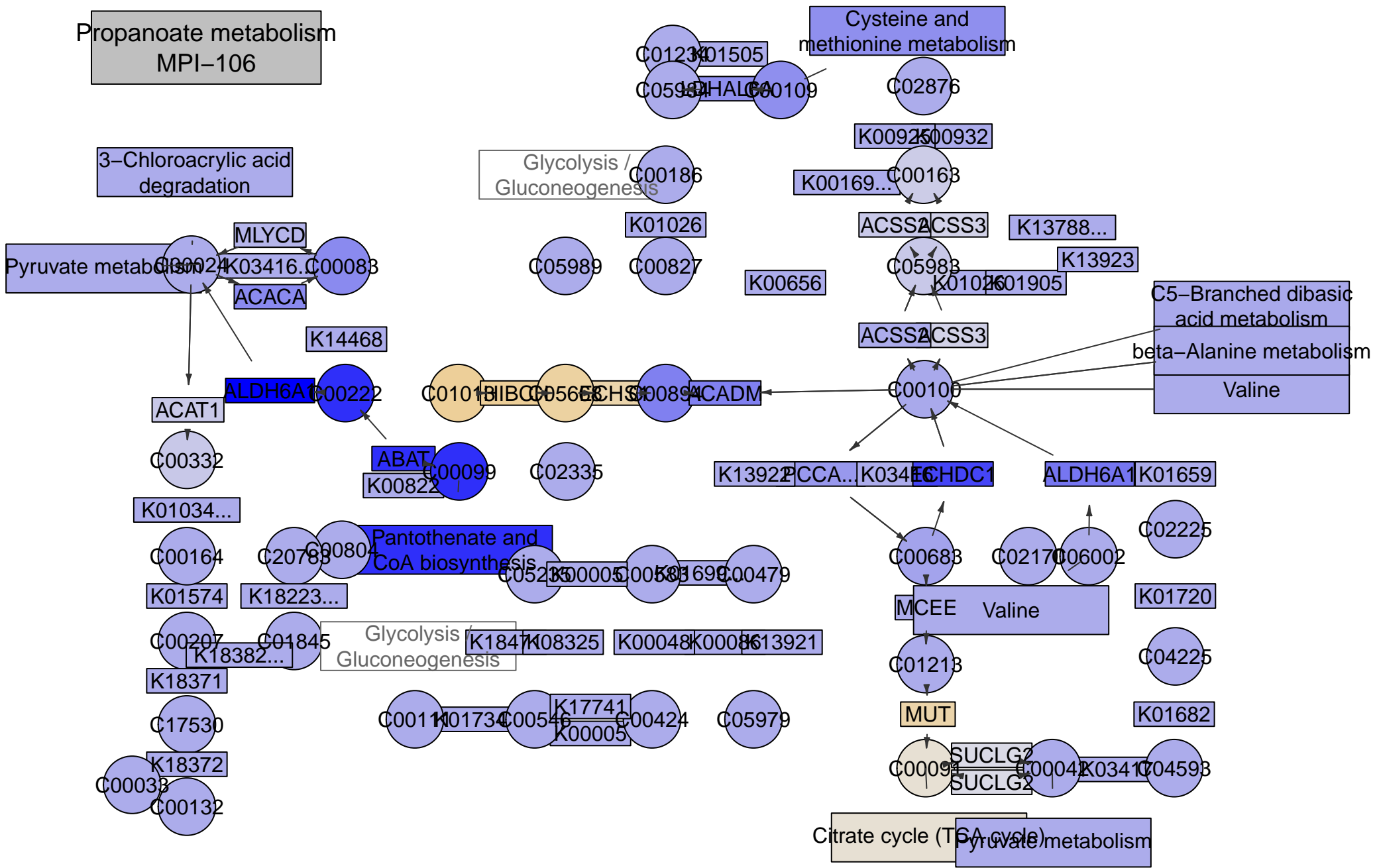
Glycolysis /
Gluconeogenesis

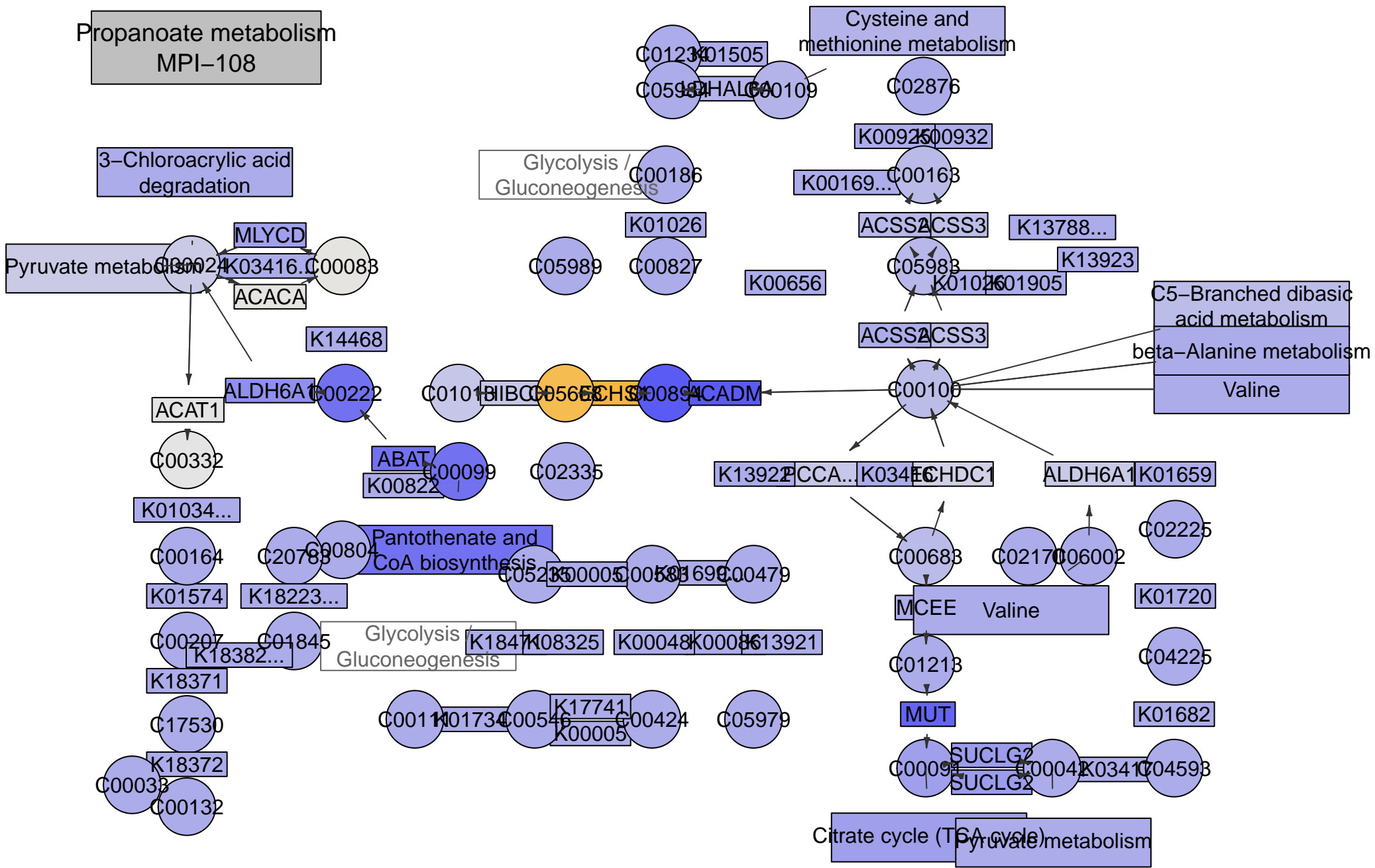
Pyruvate metabolism

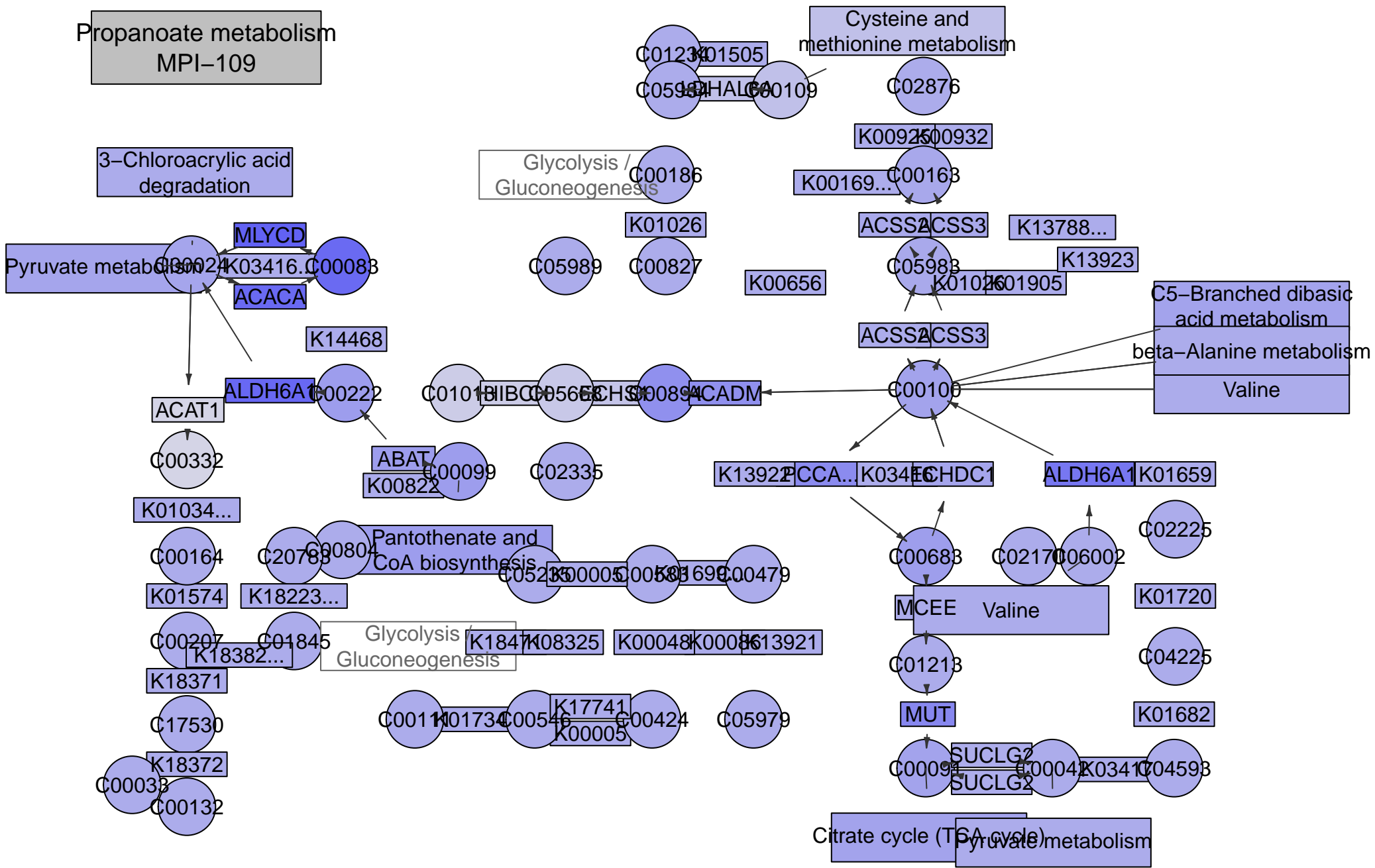
C5-Branched dibasic
acid metabolism
beta-Alanine metabolism
Valine

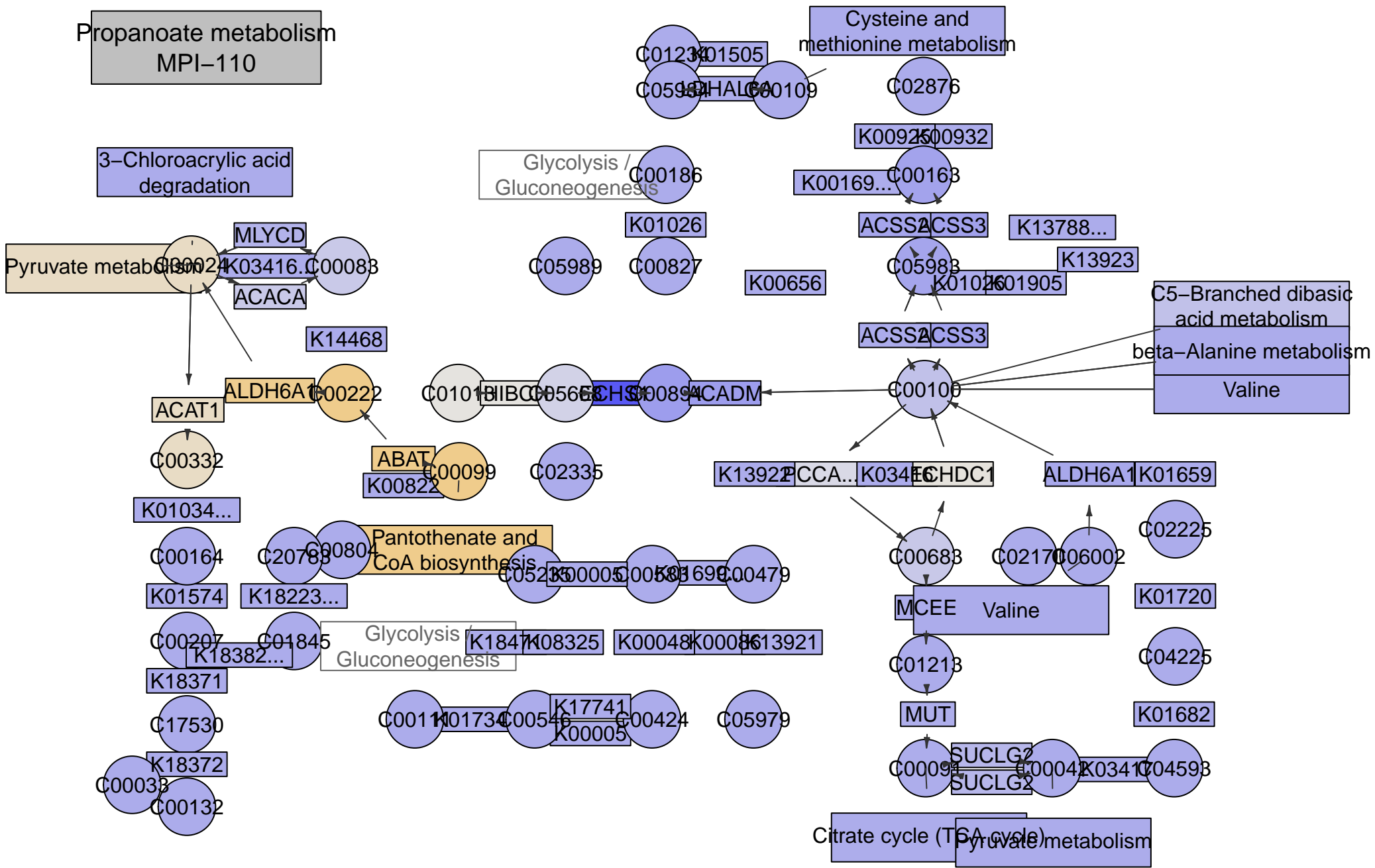


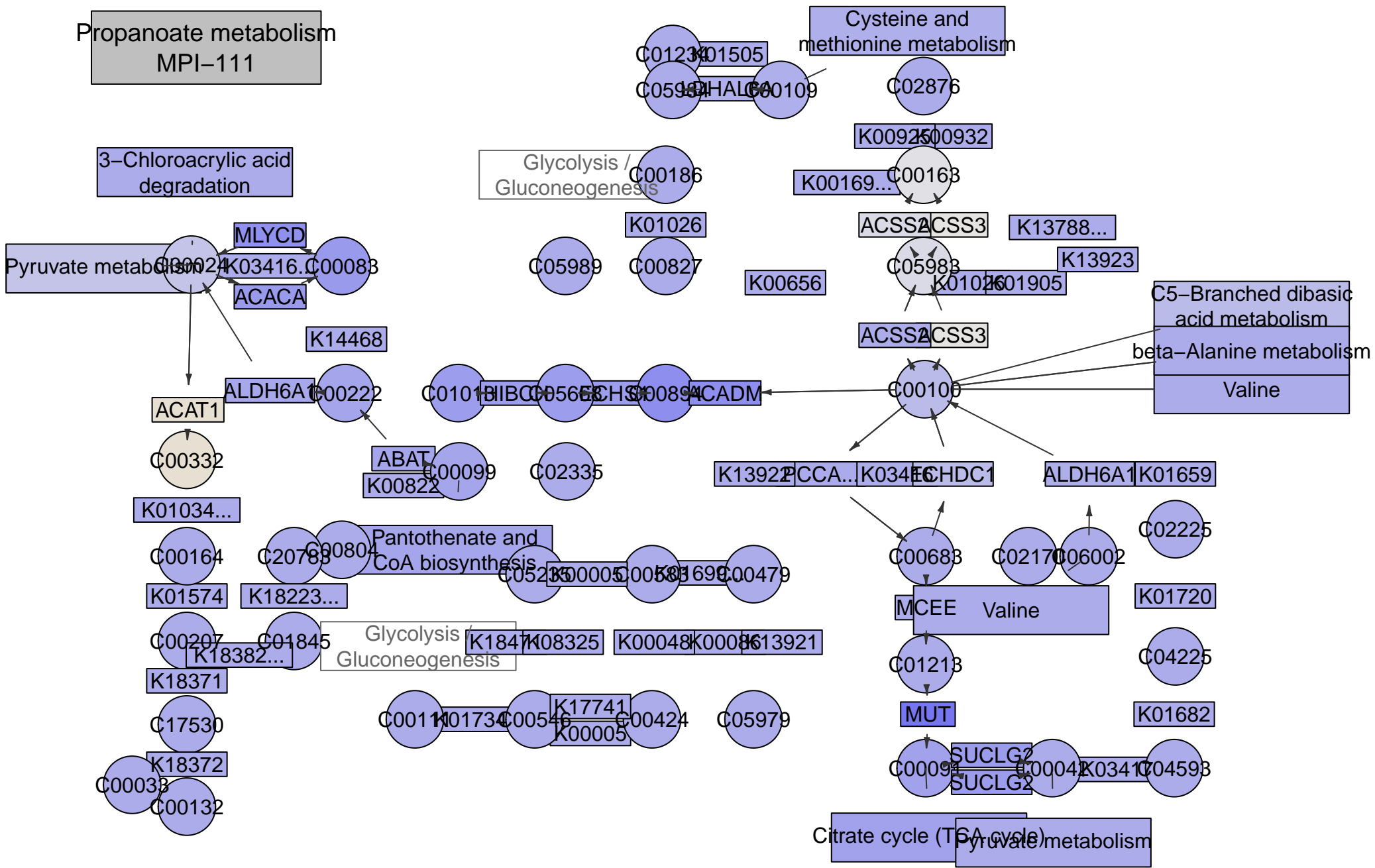
Citrate cycle (TCA cycle)
Pyruvate metabolism

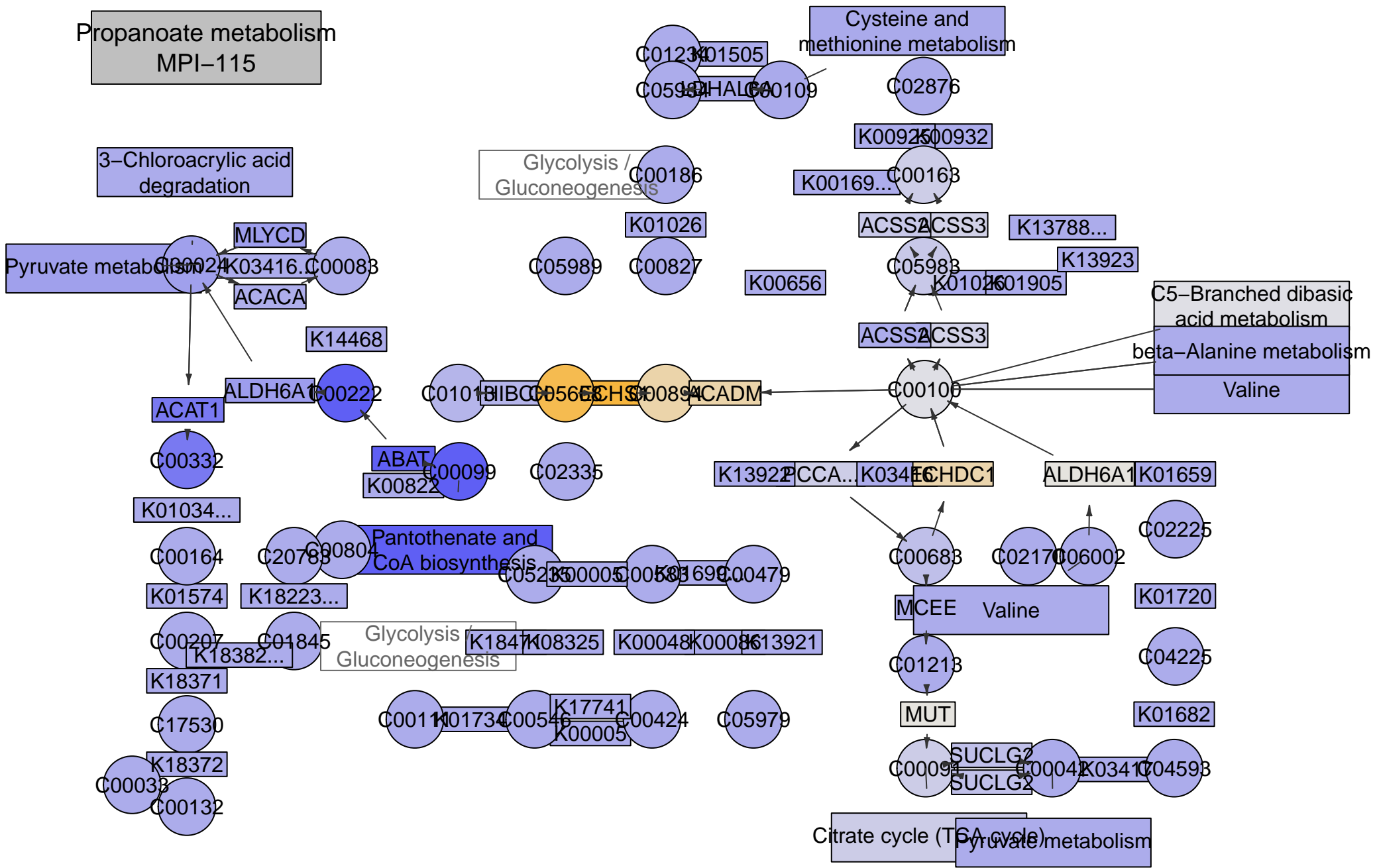


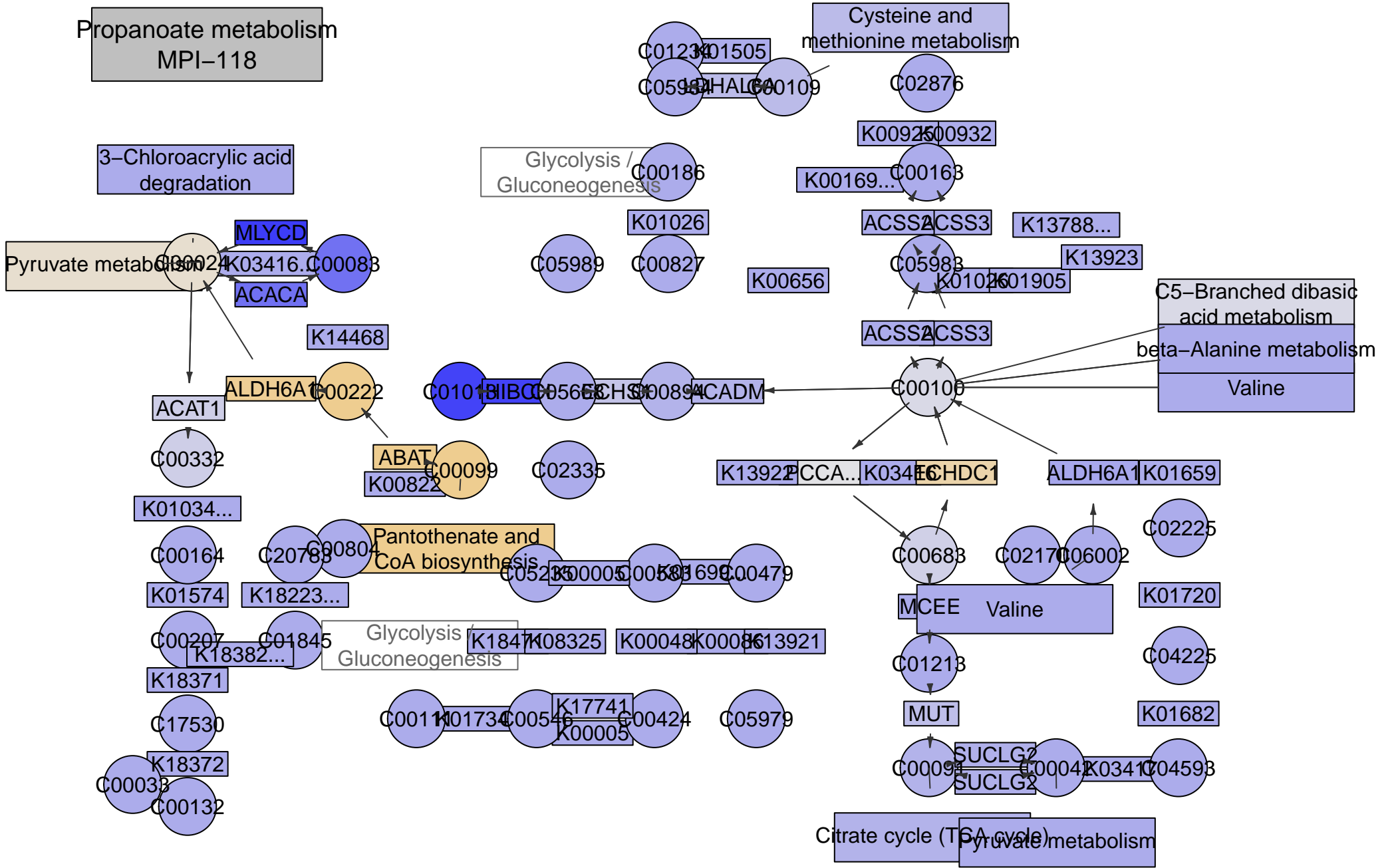


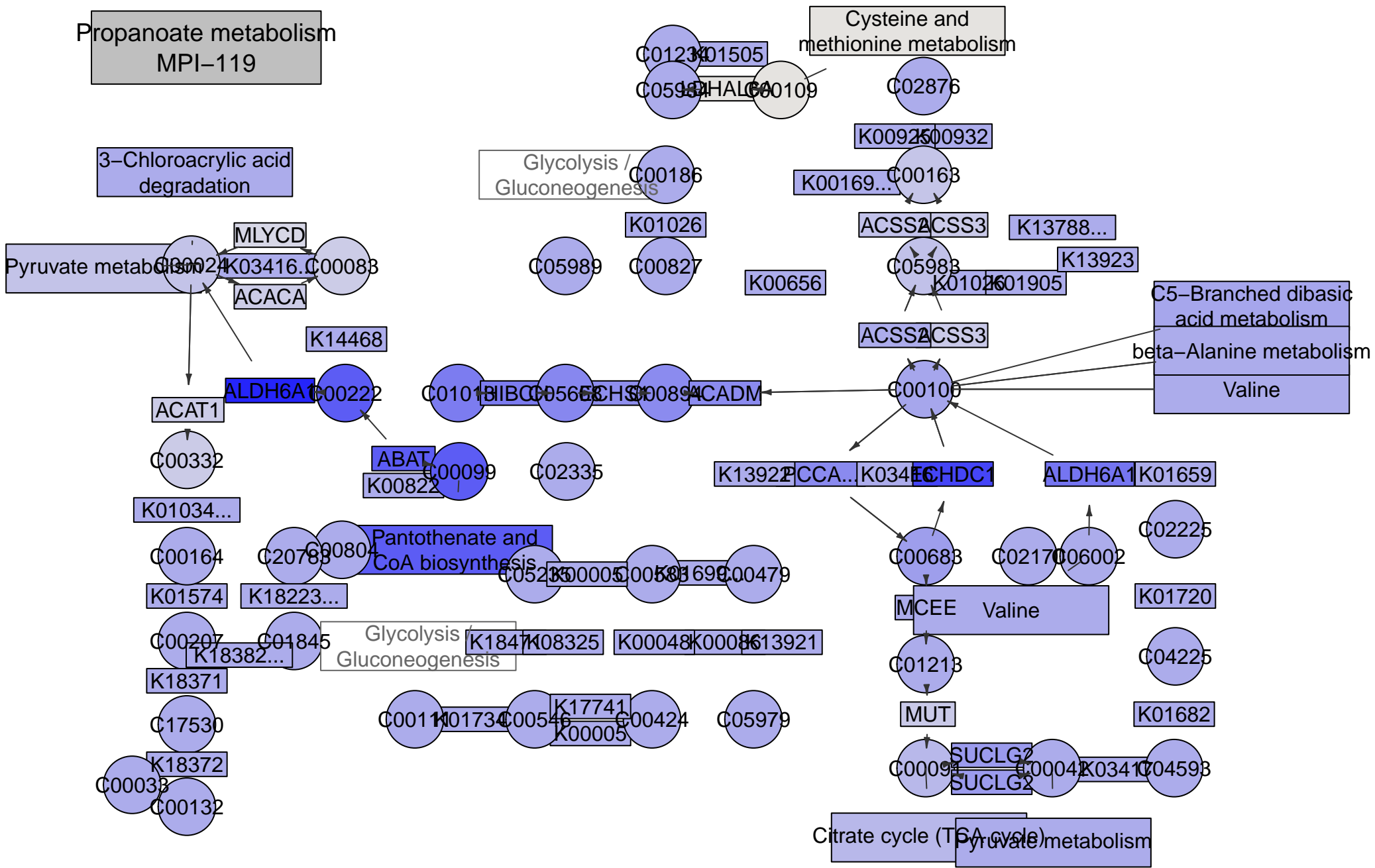


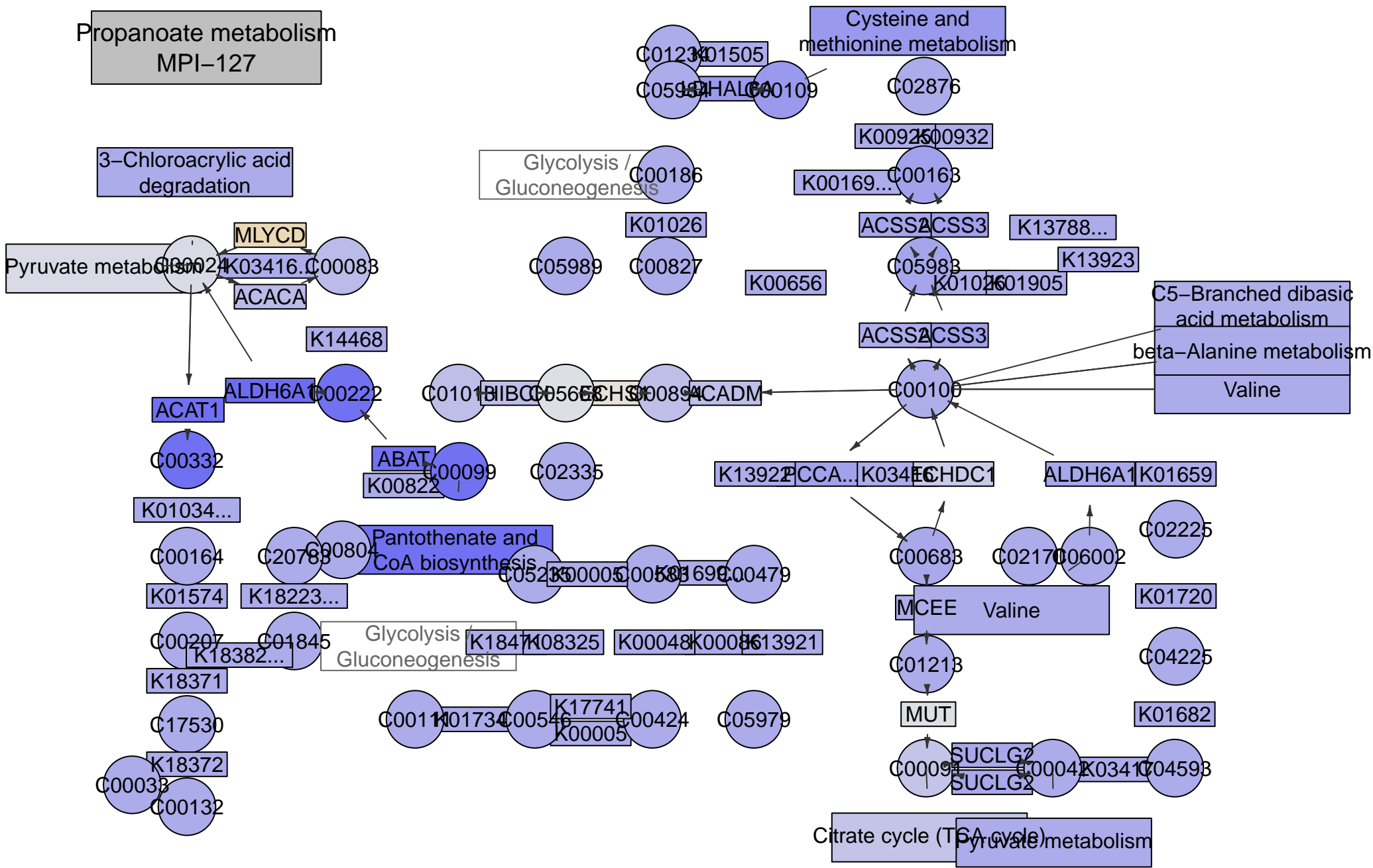


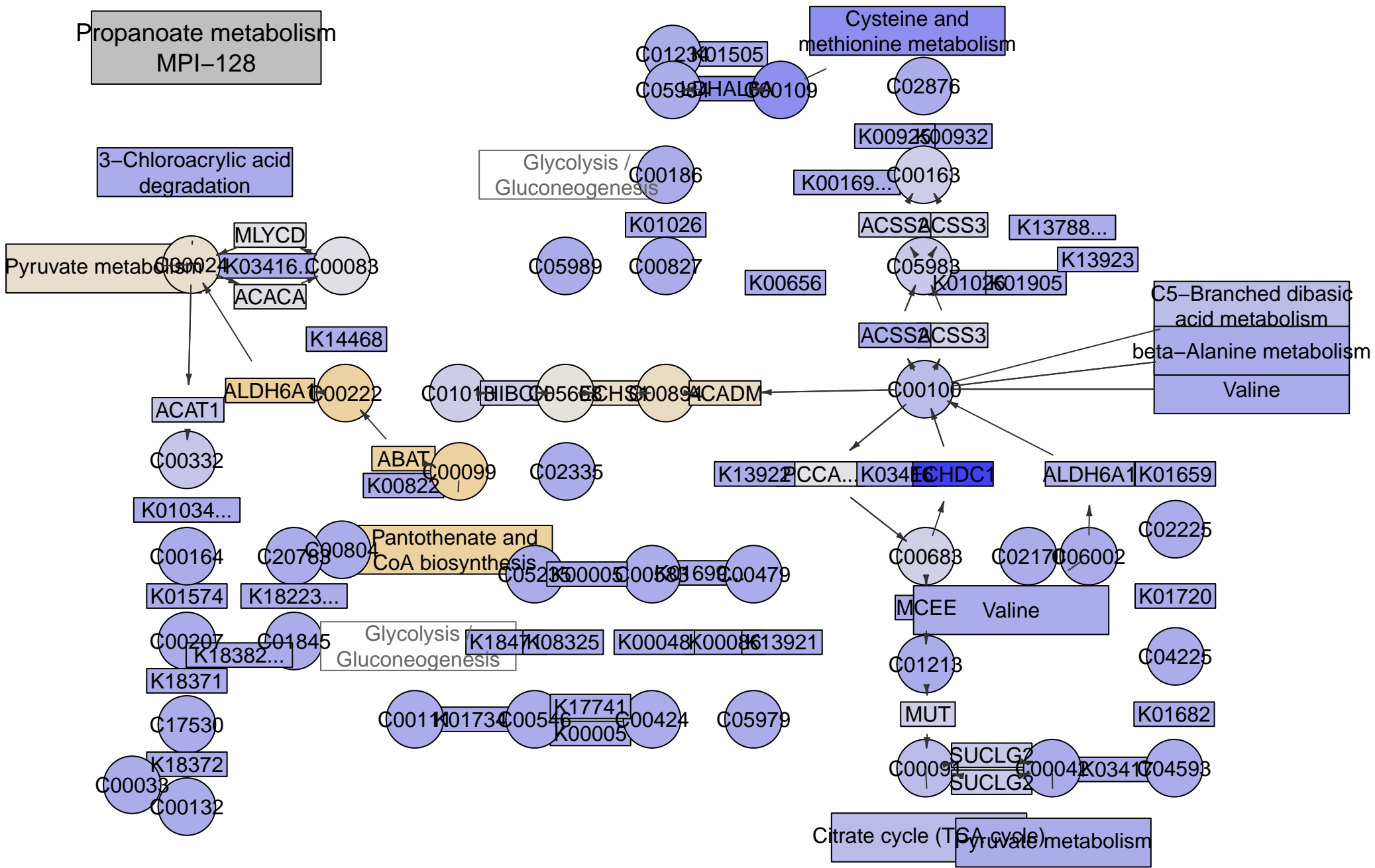


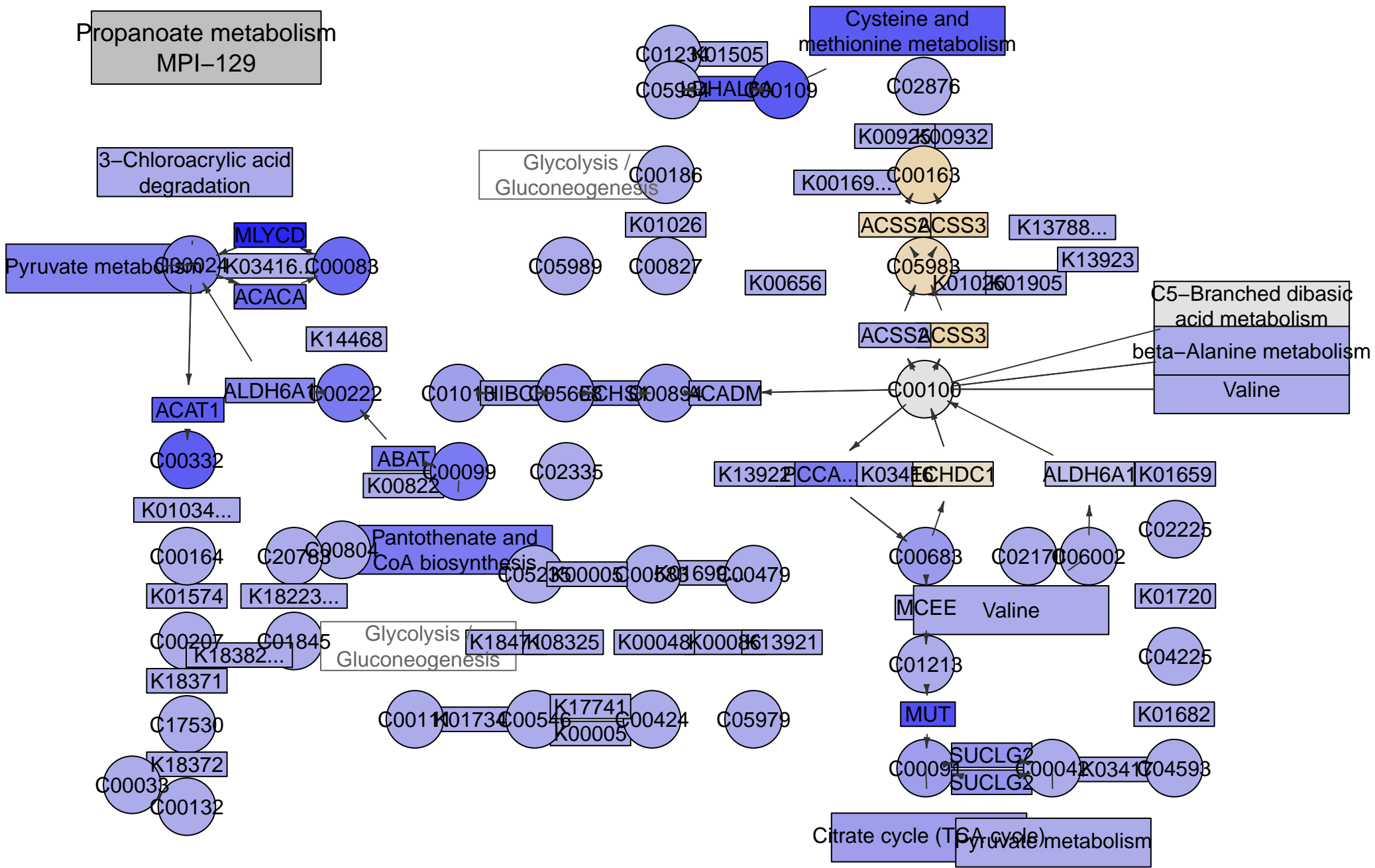


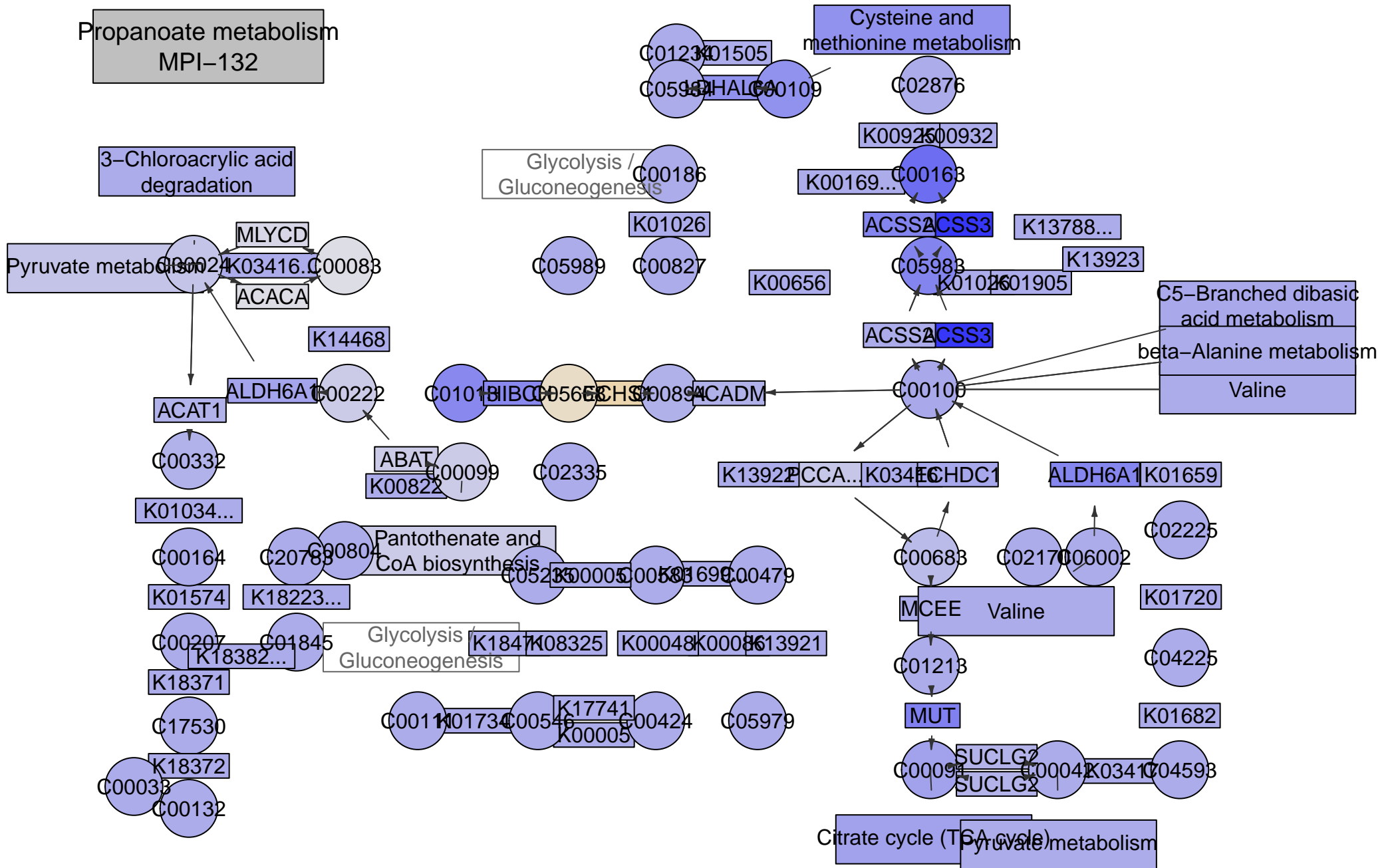


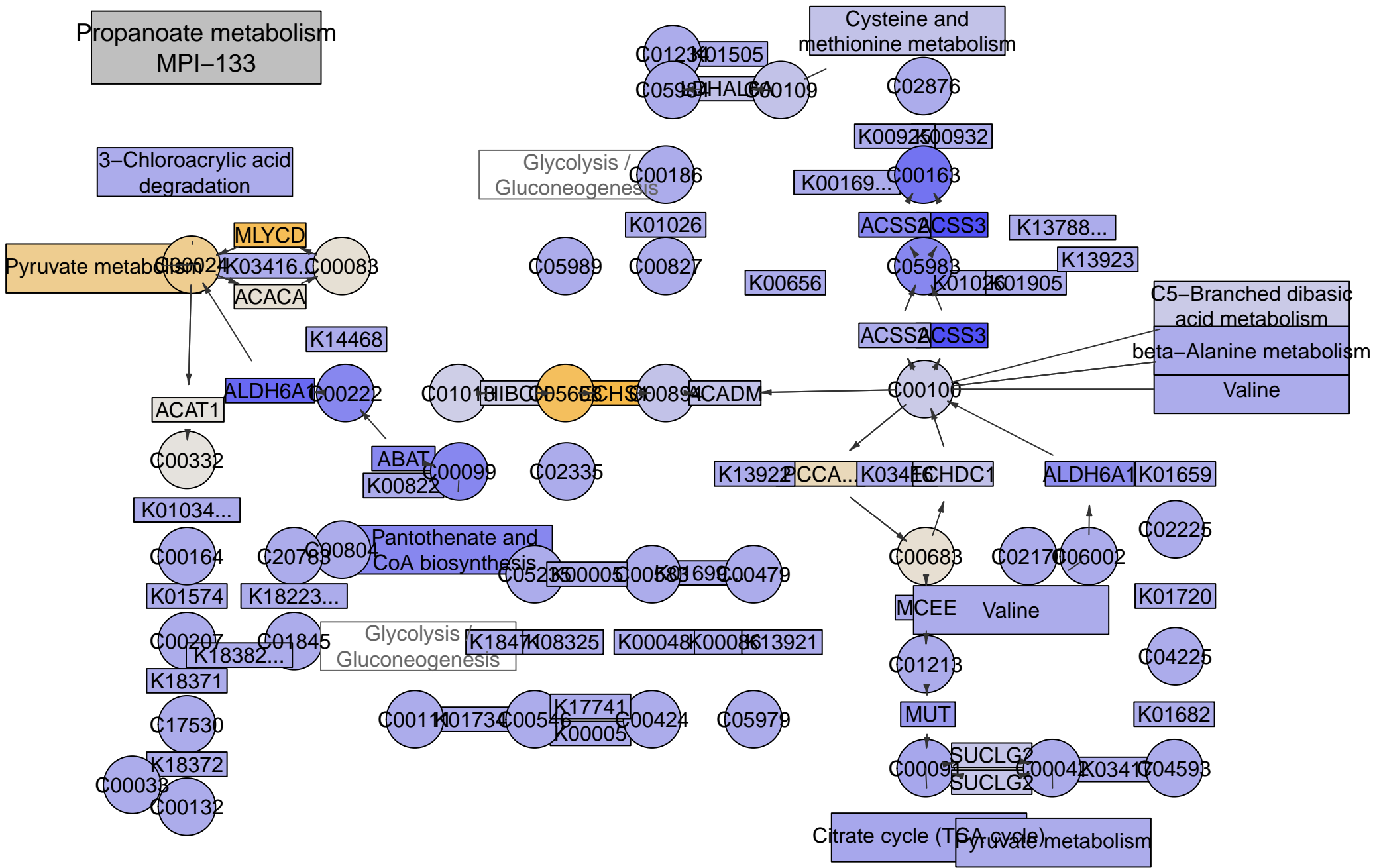


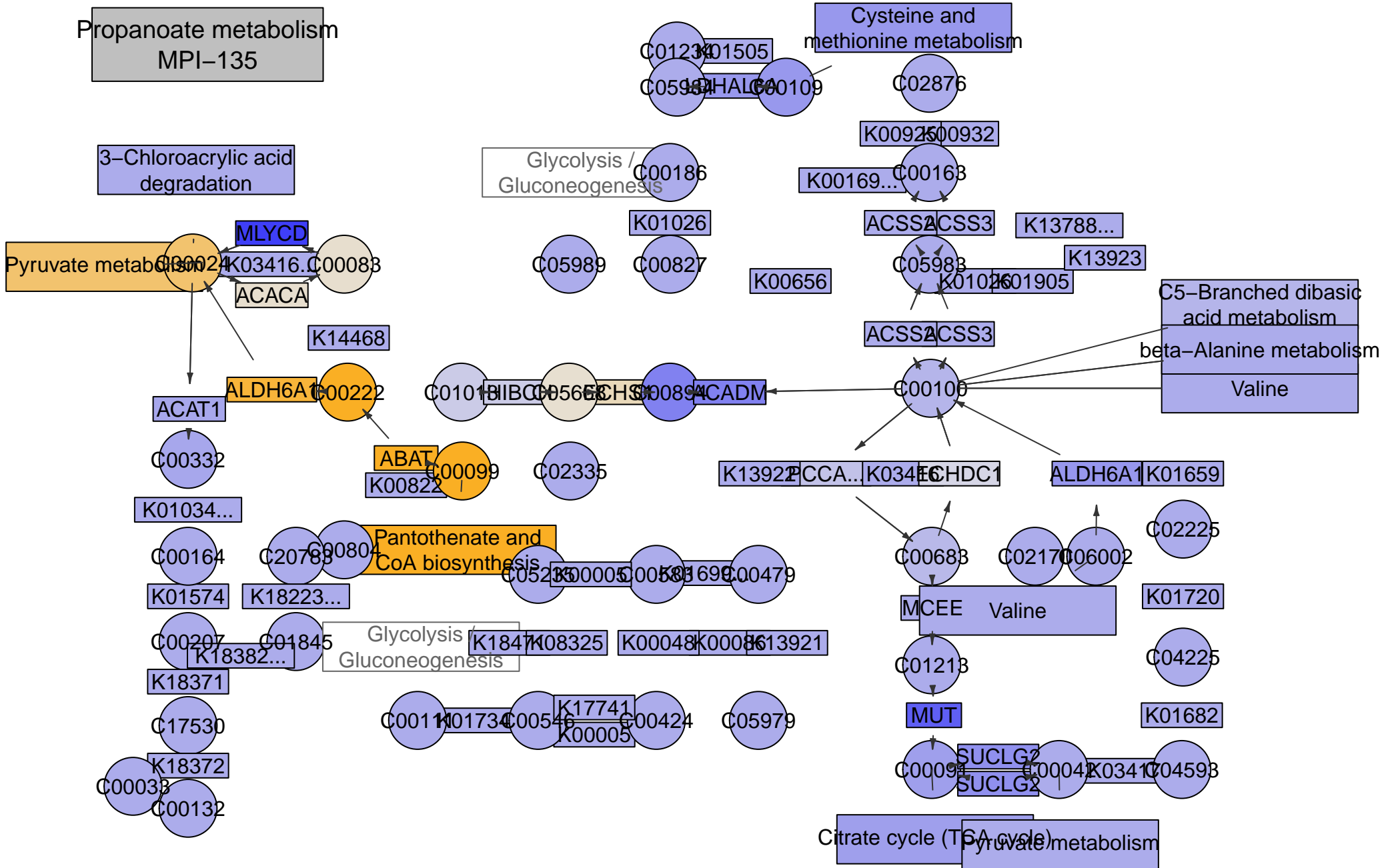


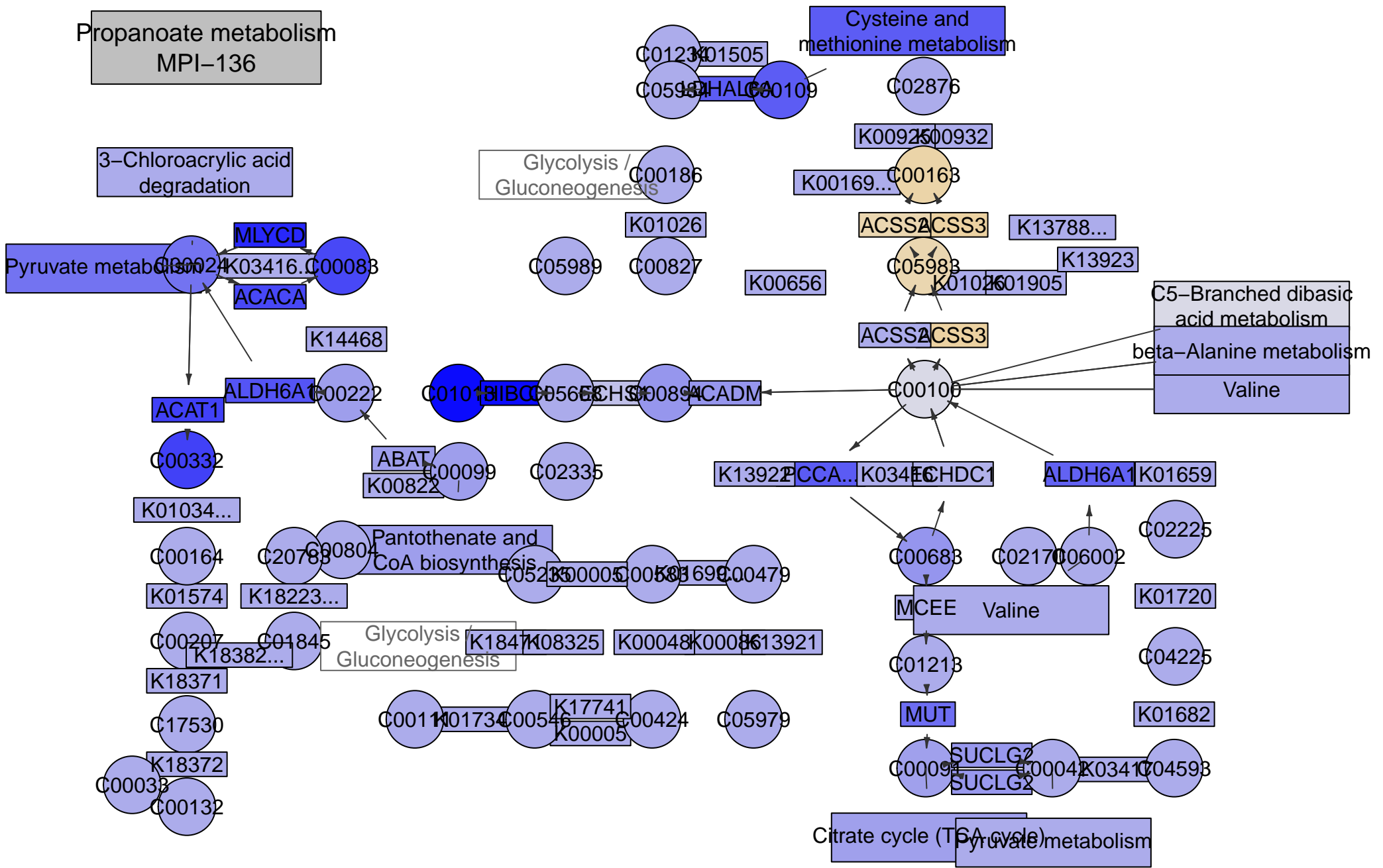












Propanoate metabolism
MPI-141

Cysteine and methionine metabolism

3-Chloroacrylic acid degradation

Glycolysis / Gluconeogenesis

Pyruvate metabolism

K009250
K00169...

MLYCD

C00024
C00123

K03416
C00083

ACACA

C00186

ACSS2
ACSS3

K13788...

K01026

C05989

C00827

K00656

C05983

K13923

ACSS2
ACSS3

C5-Branched dibasic acid metabolism

beta-Alanine metabolism

Valine

ACAT1

ALDH6A1

C00222

C01011
BIBC005658
ESHS00894

ACADM

C00106

C00332

ABAT

C00099

C02335

K13922
PCCA...
K03416
ECHDC1

ALDH6A1
K01659

K01034...

C00164

C20788

C00804

Pantothenate and CoA biosynthesis

C05235
C00005
C00583

C00690

C00479

C00688

C02170

C06002

C02225

K01574

K18223...

MCEE

Valine

K01720

C00207

C01845

Glycolysis / Gluconeogenesis

K18471
K08325

K00048
K00036

K13921

C01213

C04225

K18371

MUT

K01682

C17530

C00111
K01734

C00546

K17741
K00005

C00424

C05979

C00094

SUCLG2
SUCLG2

C00044

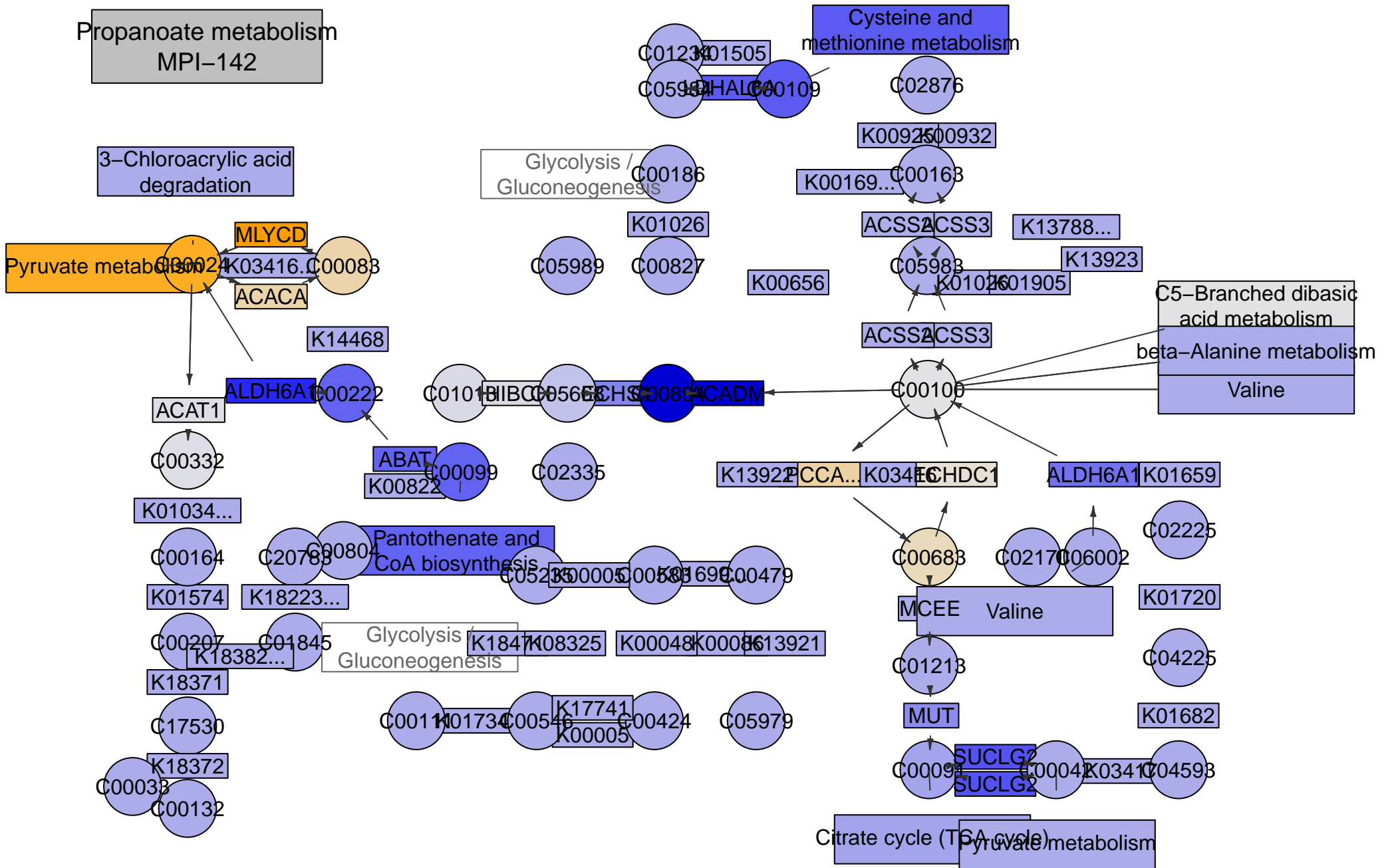
K03416

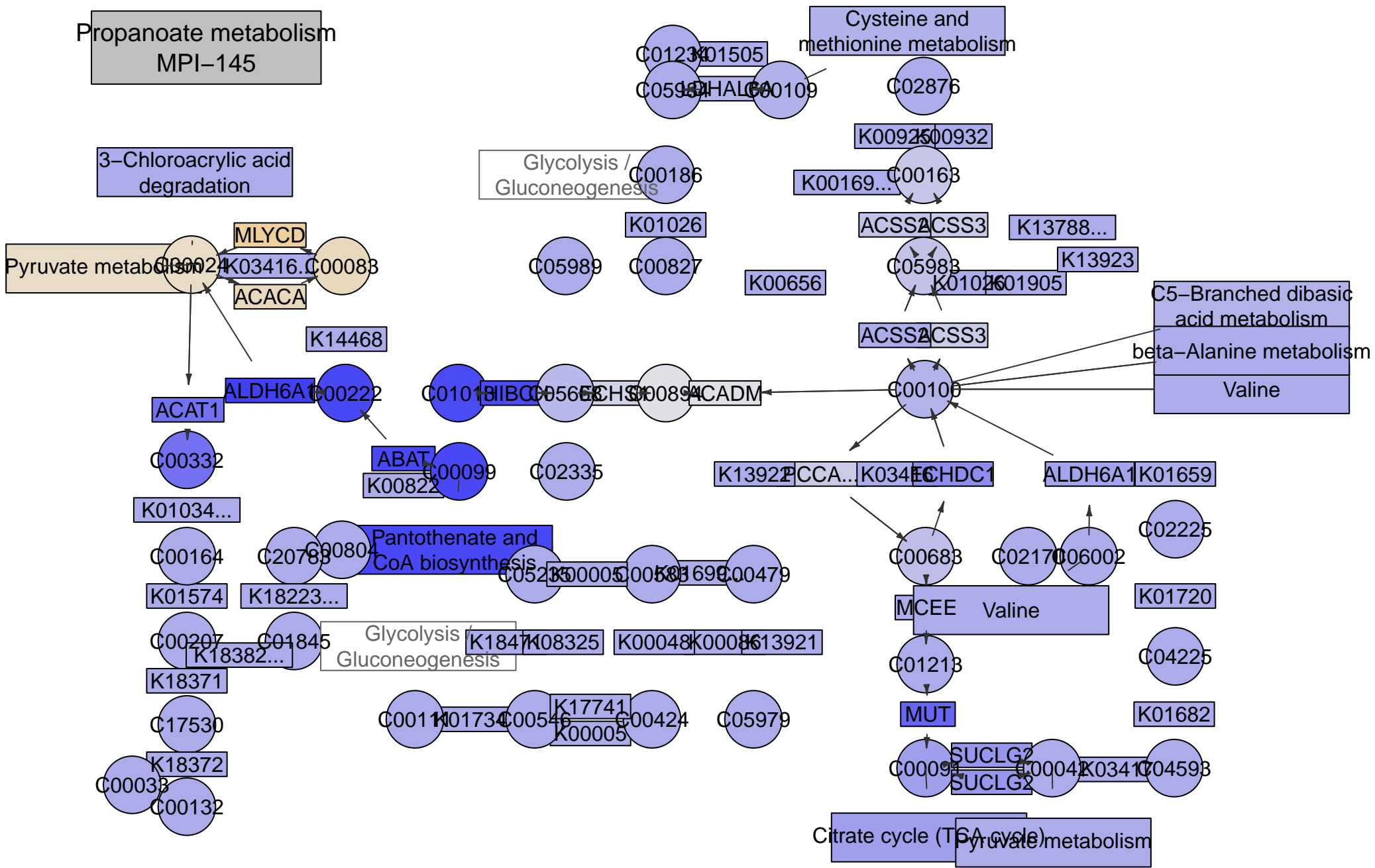
C04593

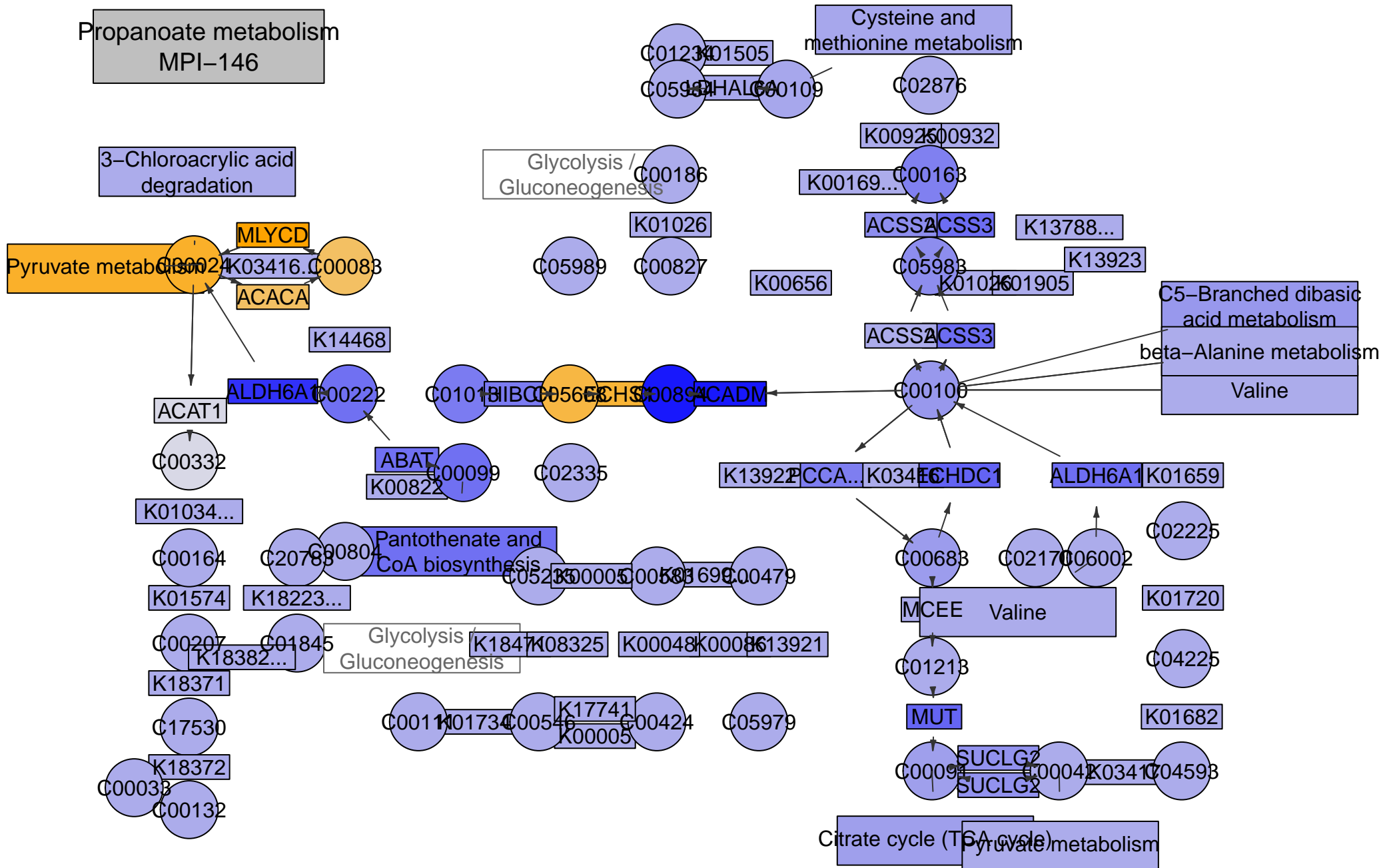
C00033

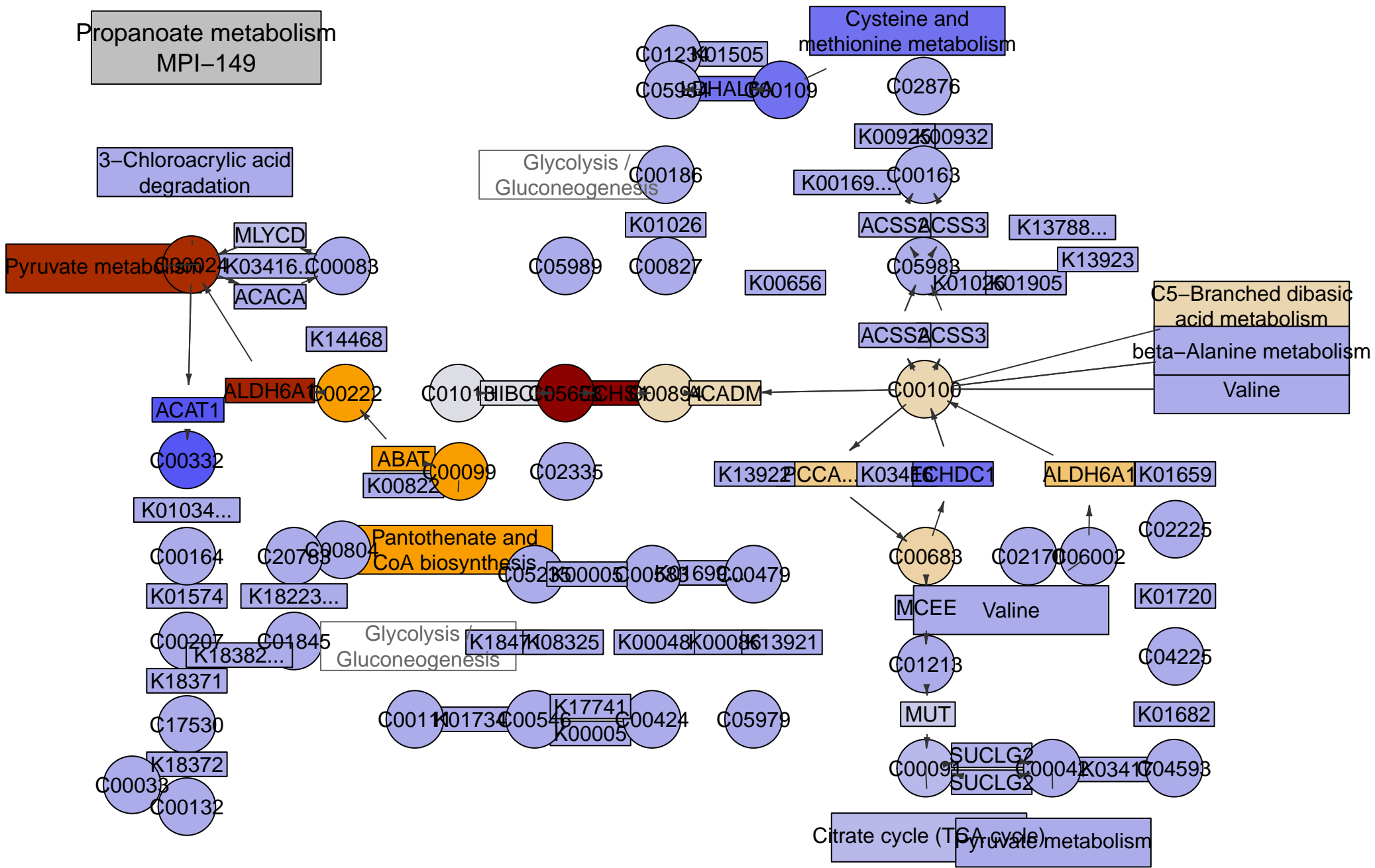
C00132

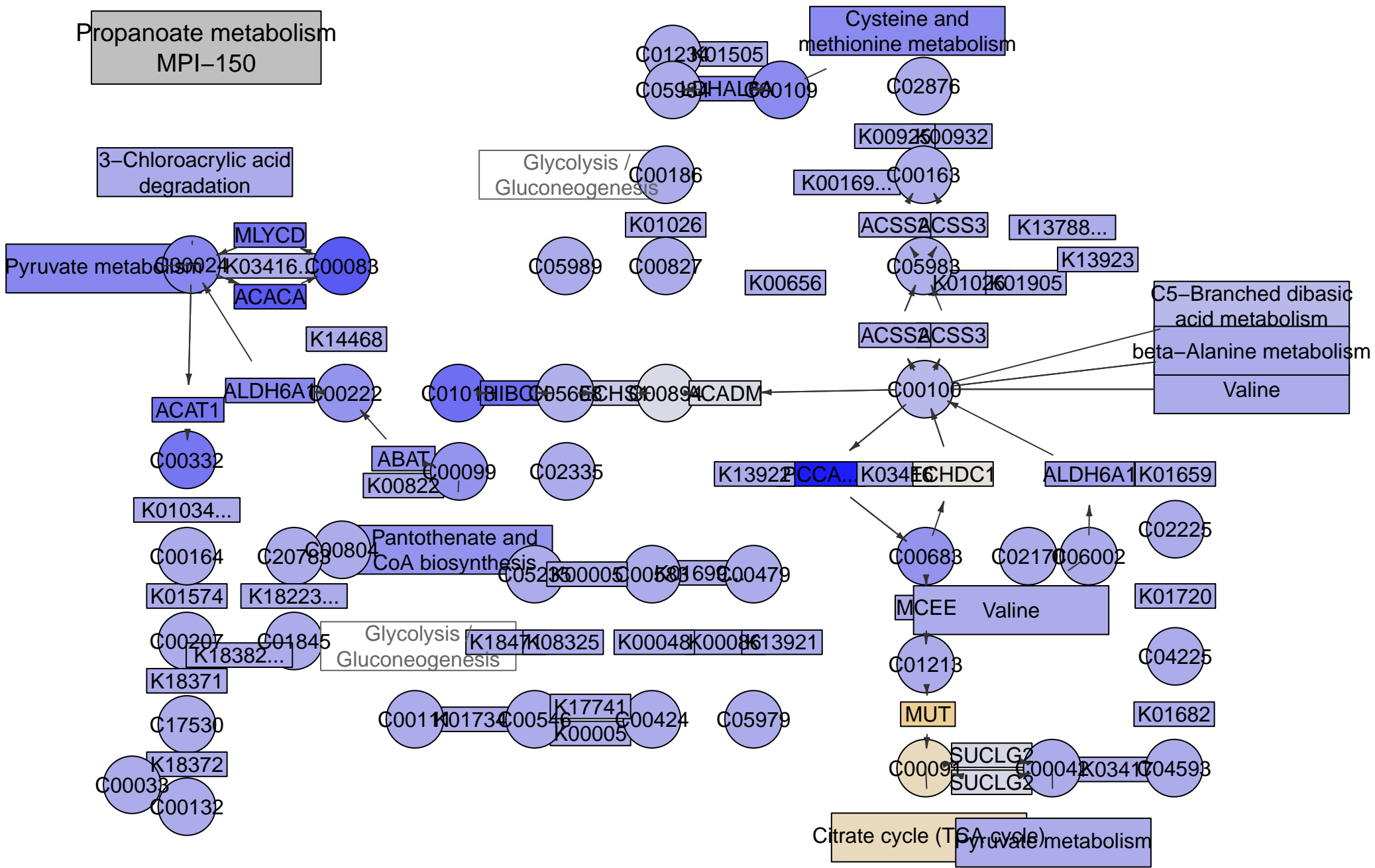
Citrate cycle (TCA cycle) / Pyruvate metabolism

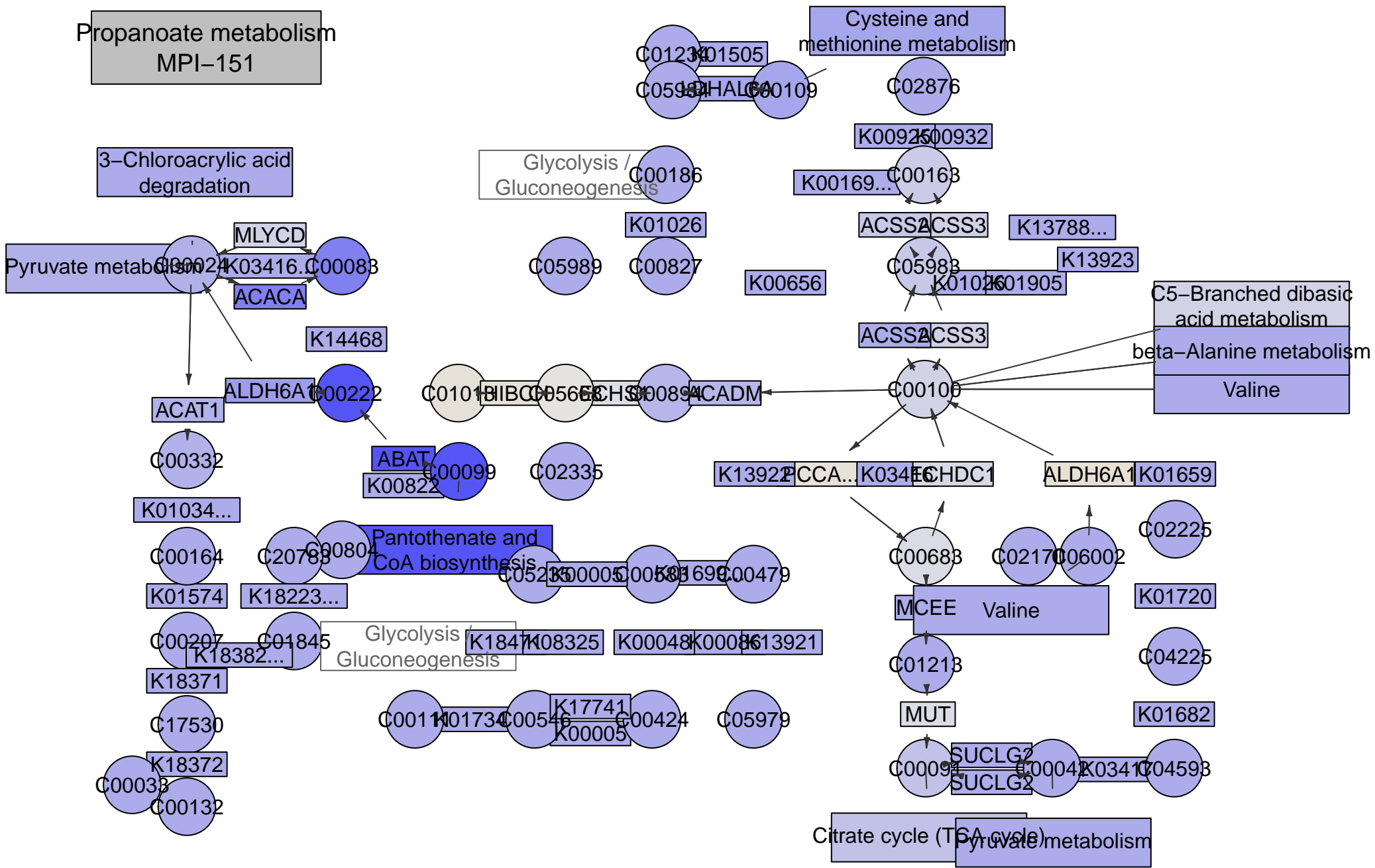


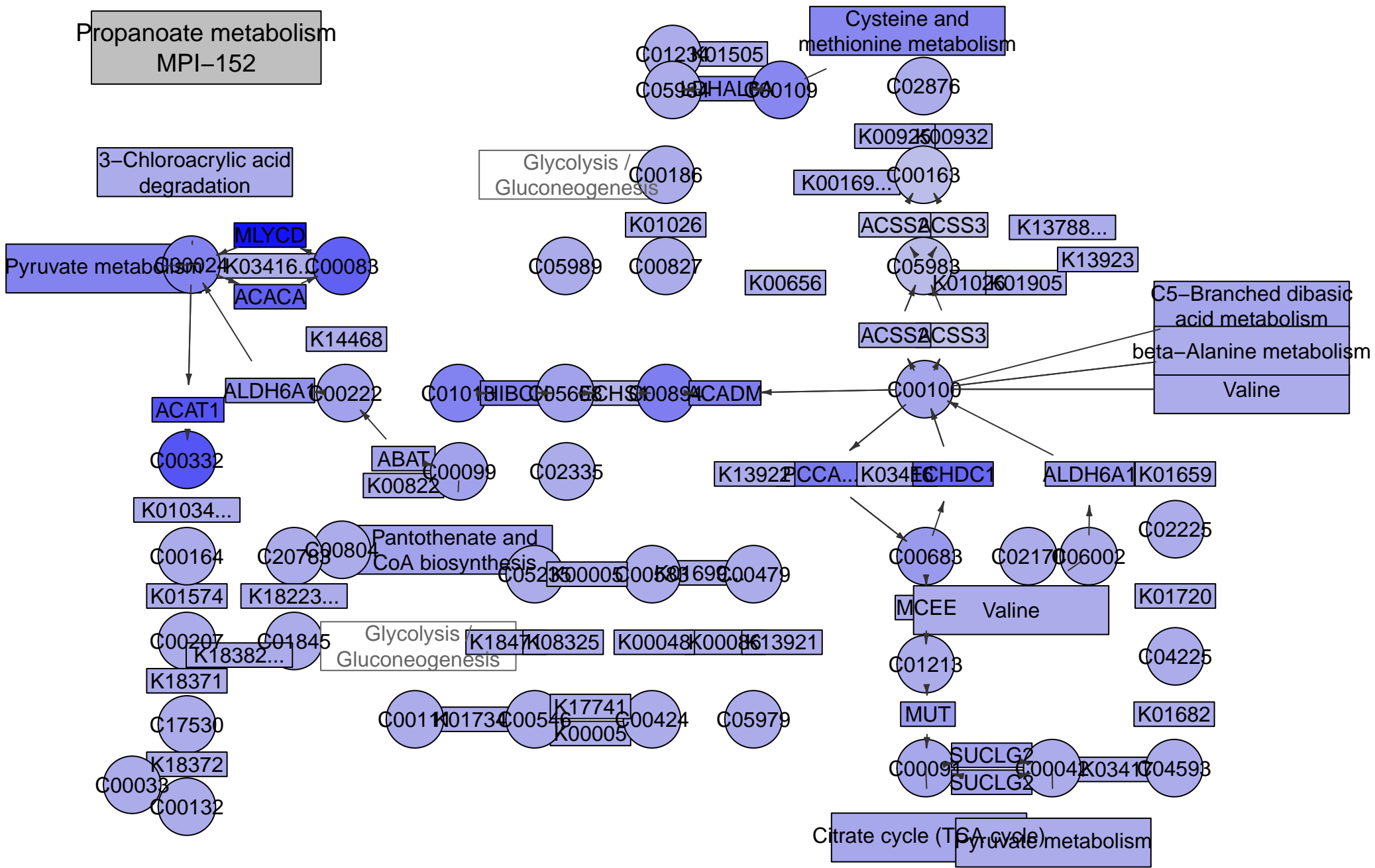


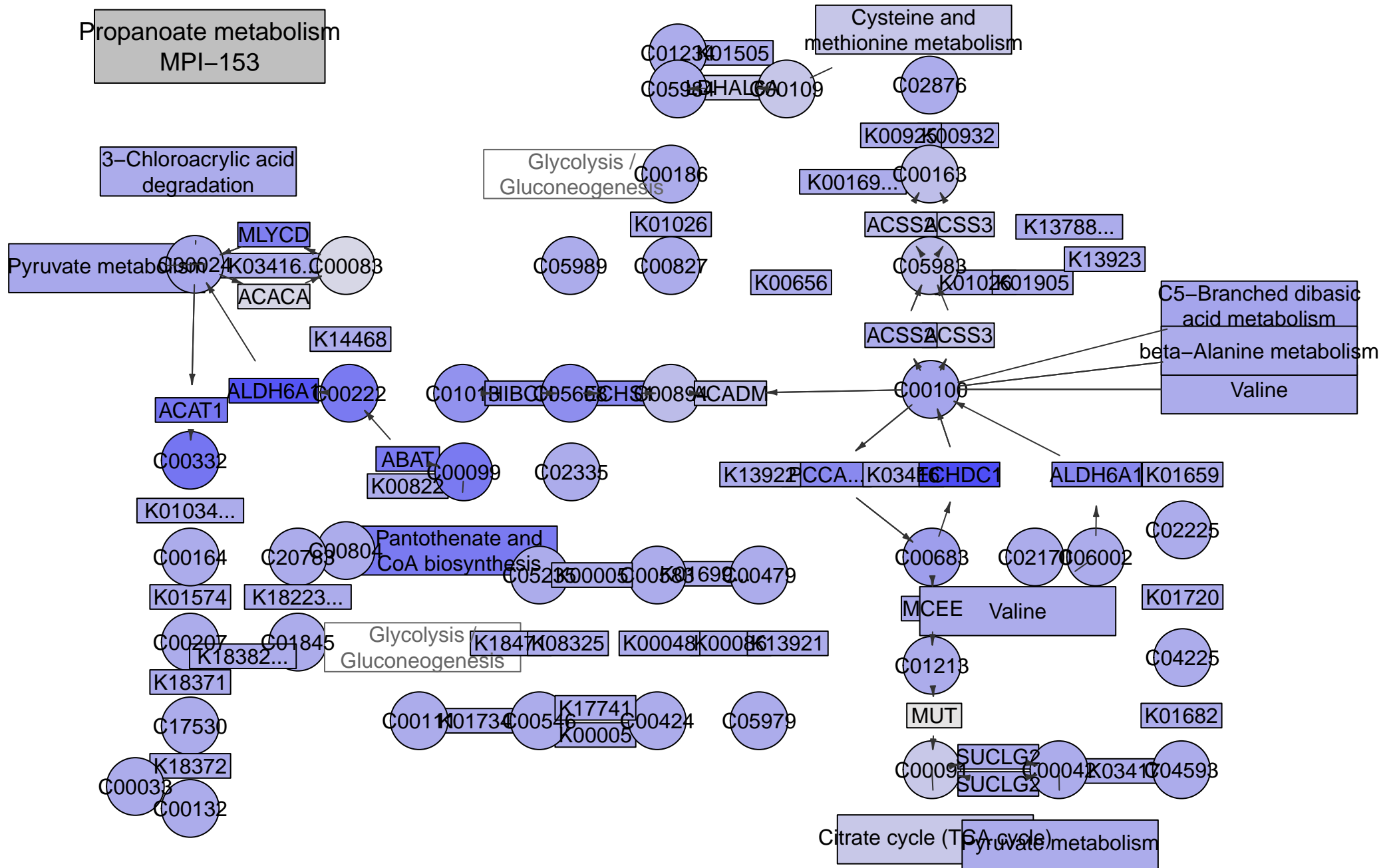


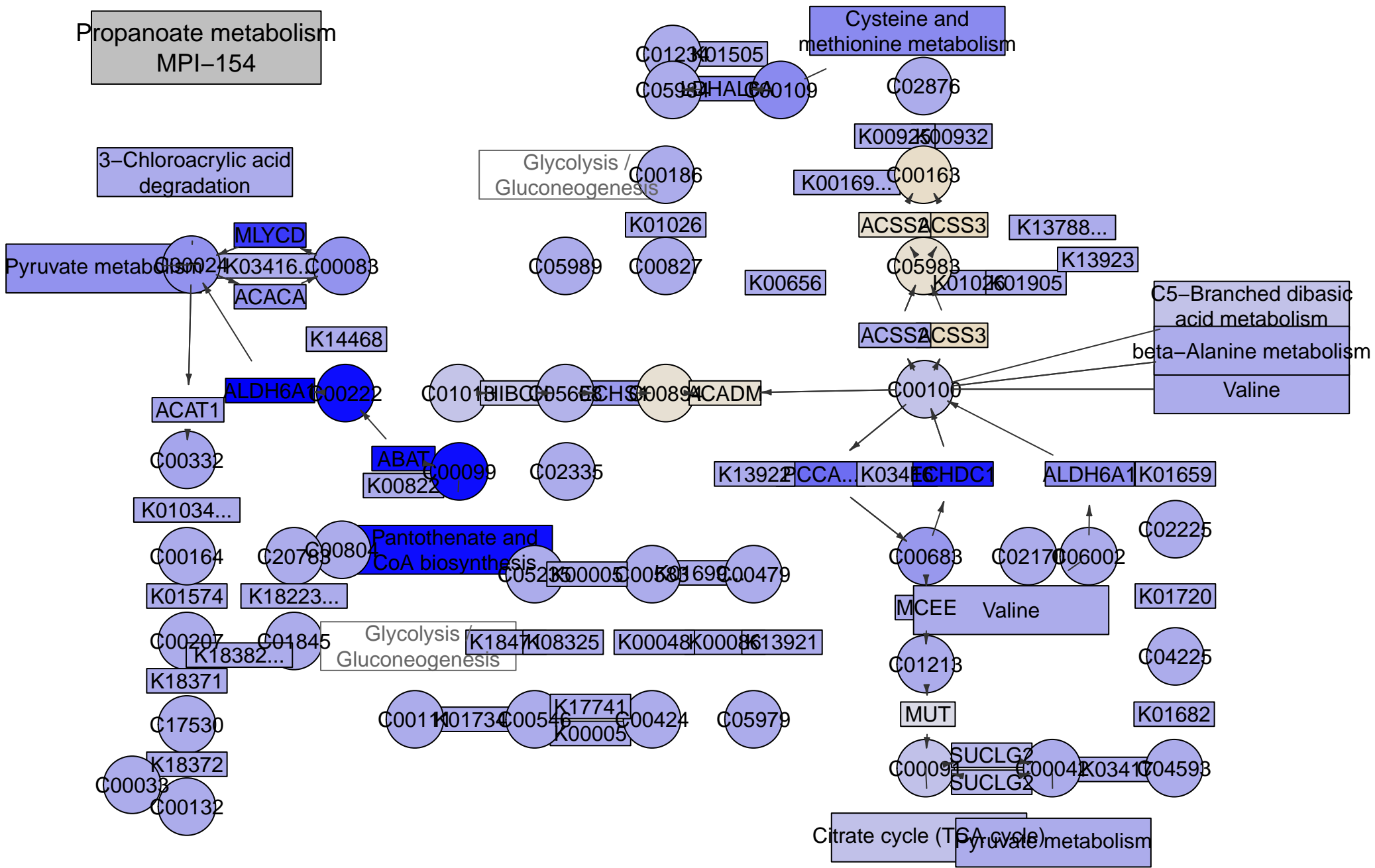


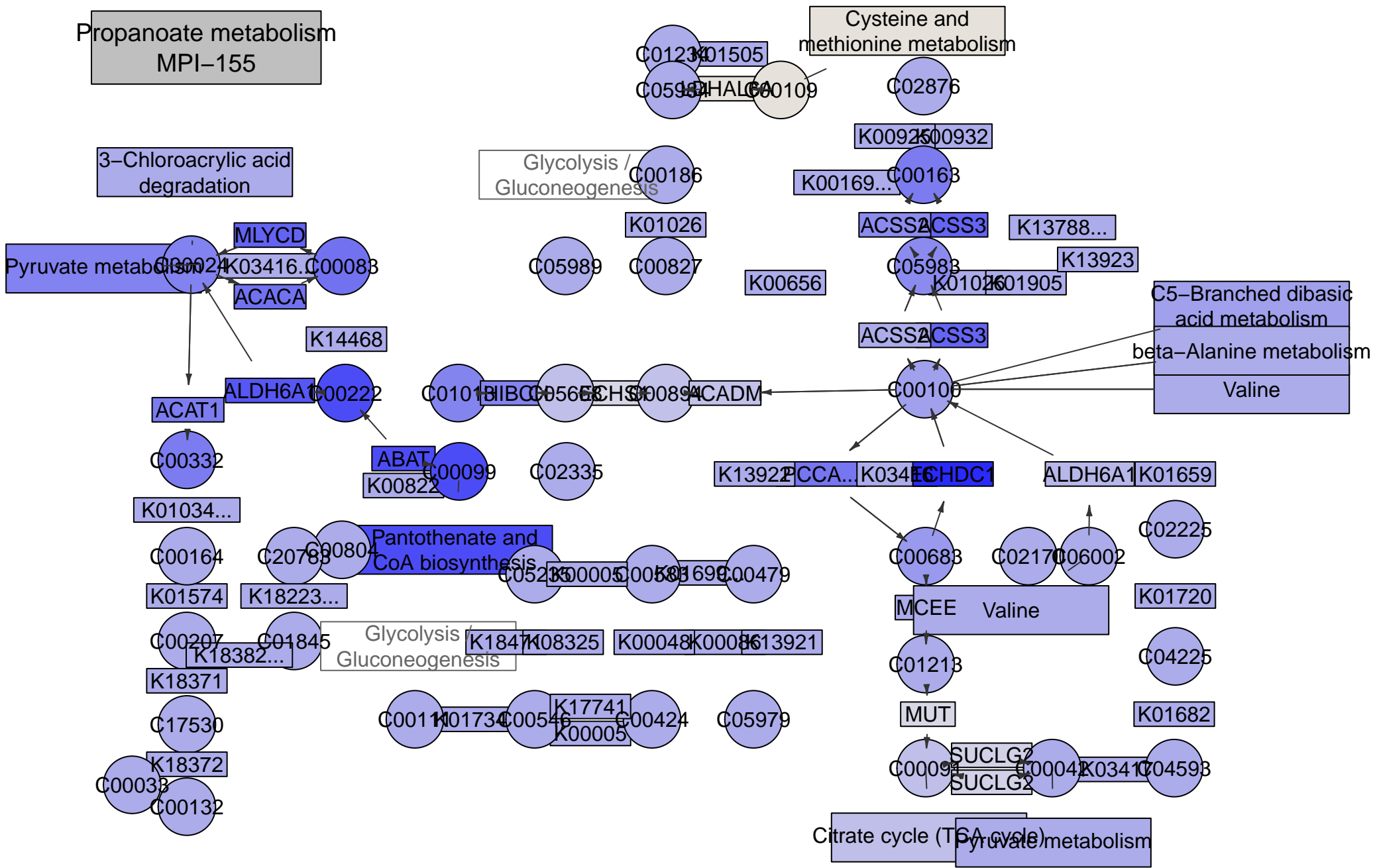


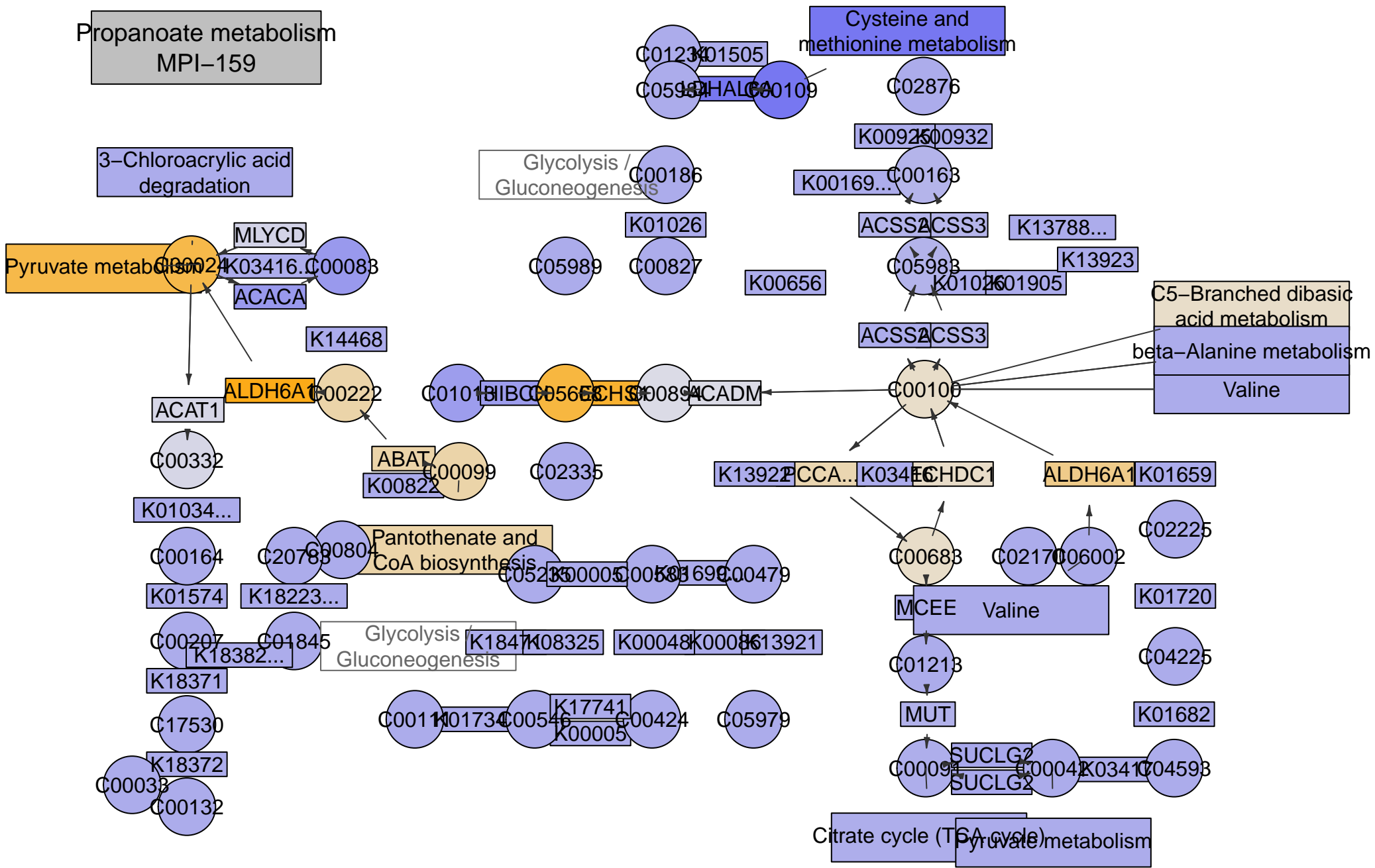












Propanoate metabolism
MPI-159

Cysteine and methionine metabolism

3-Chloroacrylic acid degradation

Glycolysis / Gluconeogenesis

Pyruvate metabolism

C5-Branched dibasic acid metabolism

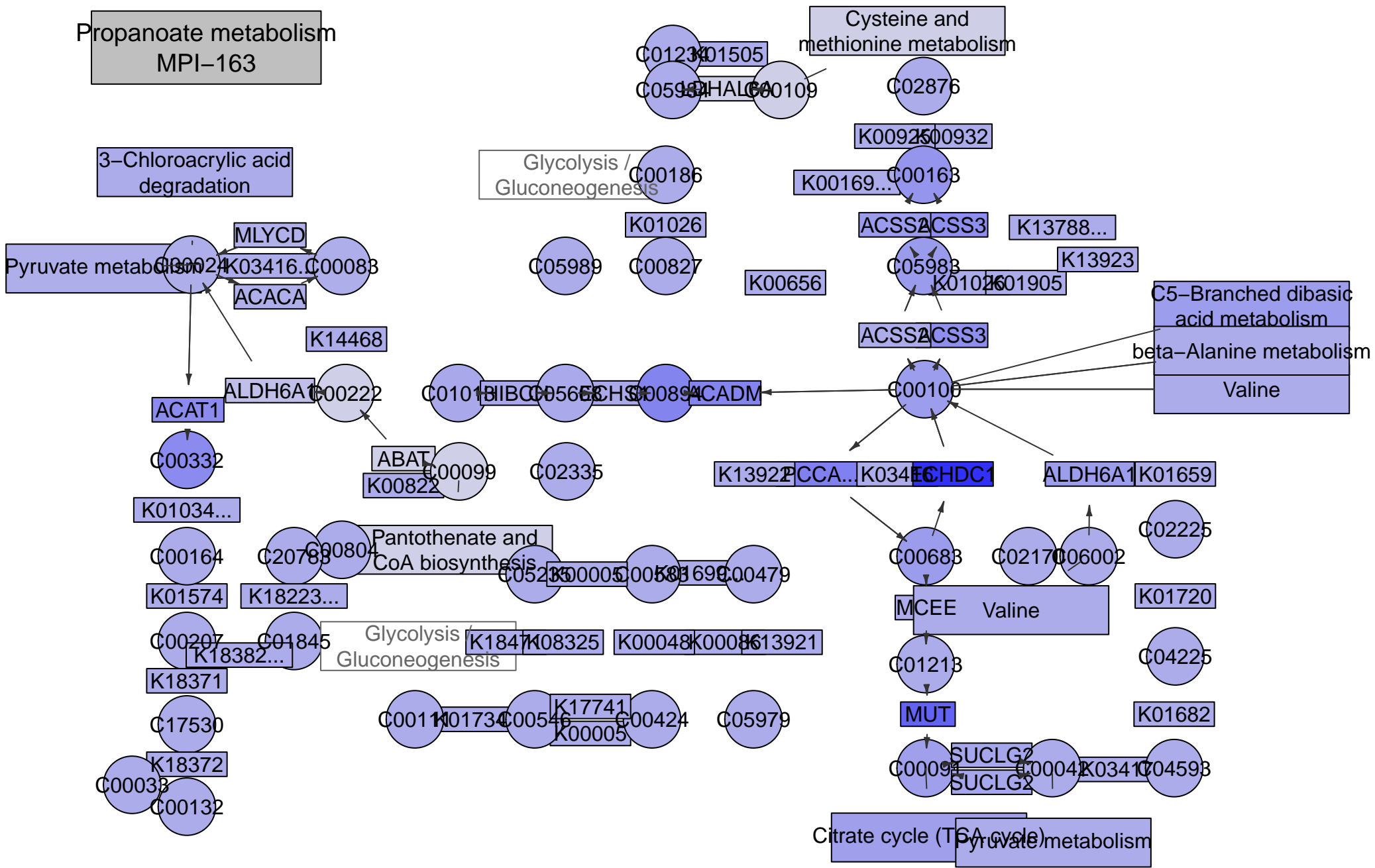
beta-Alanine metabolism

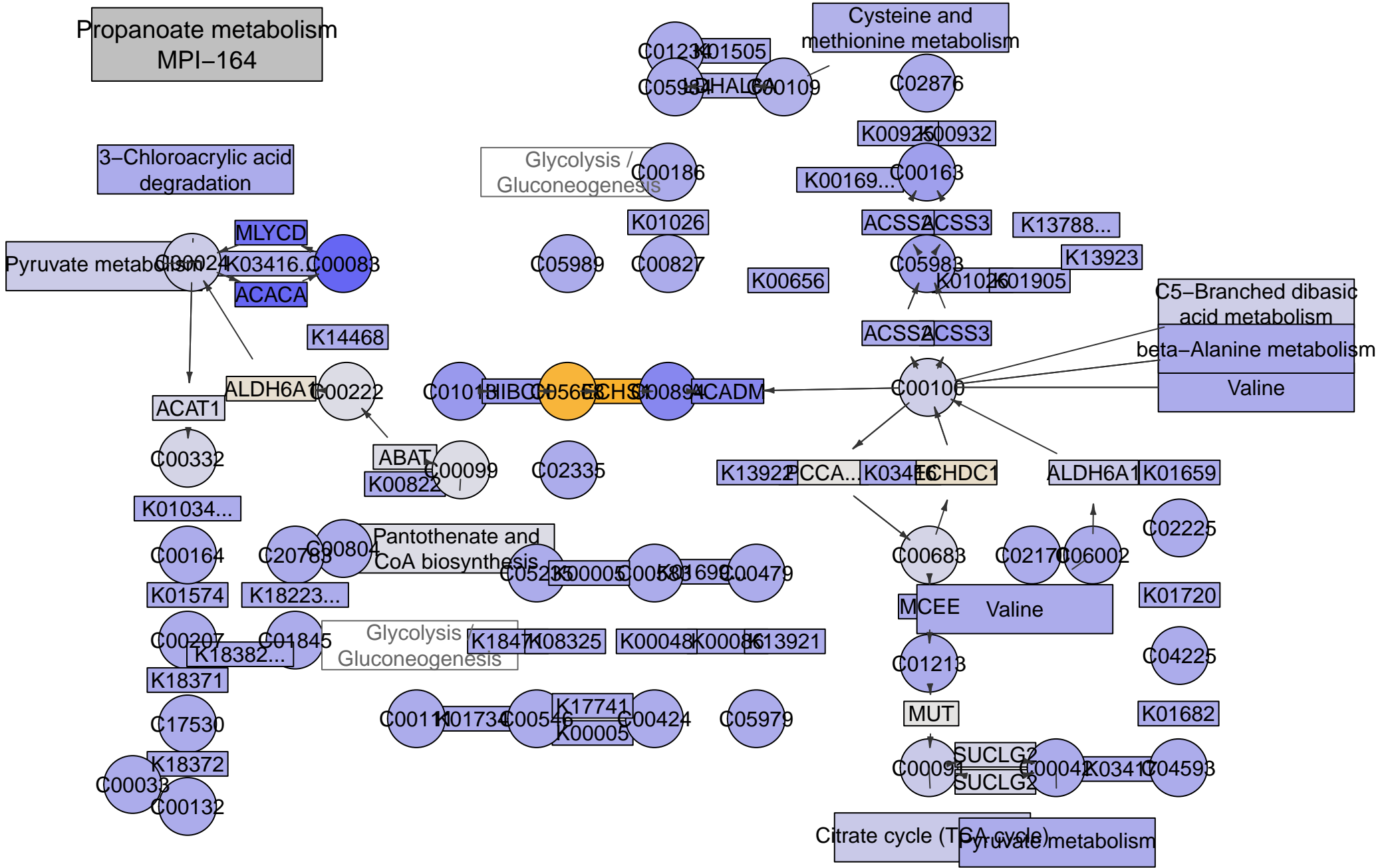
Valine

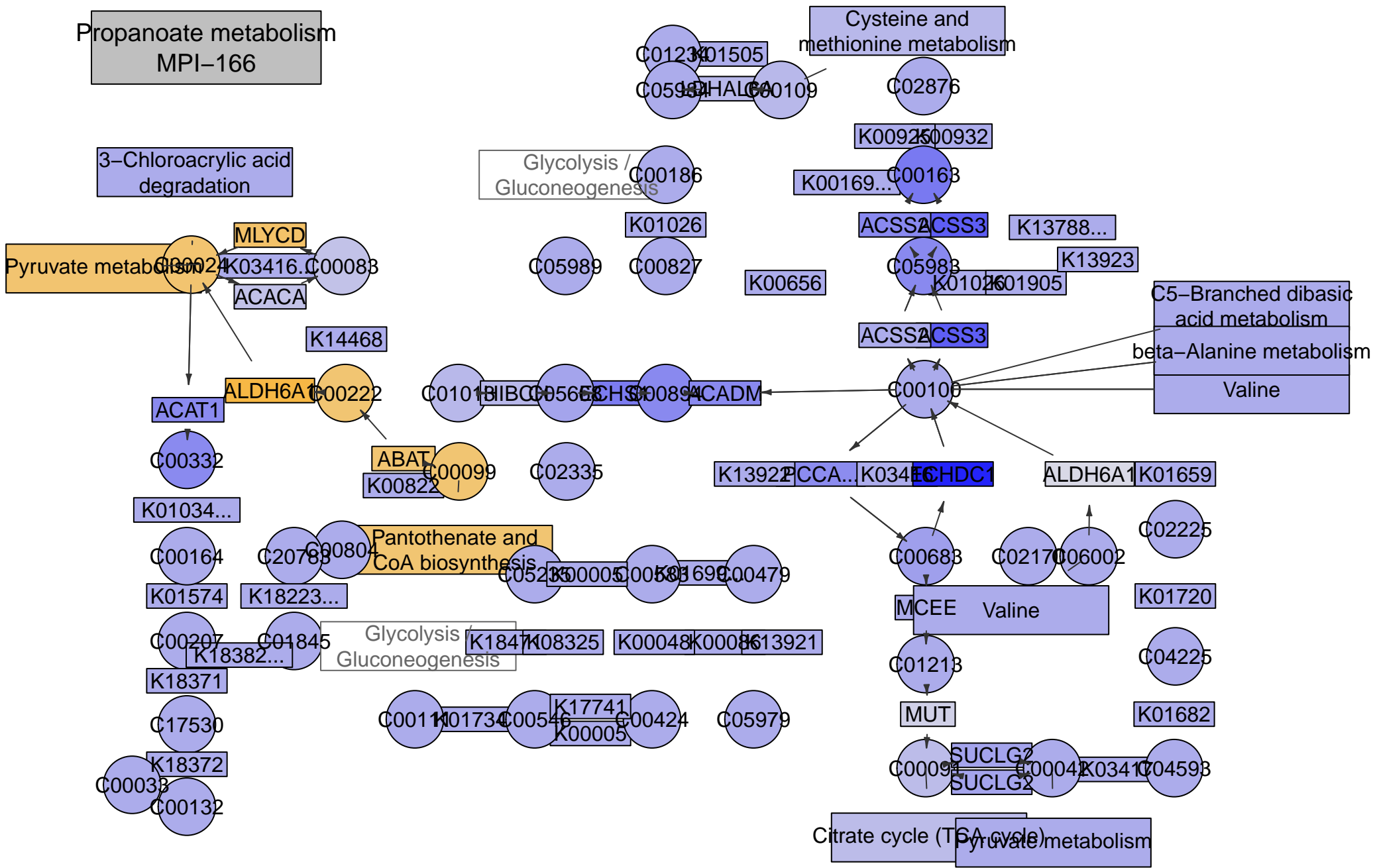
Pantothenate and CoA biosynthesis

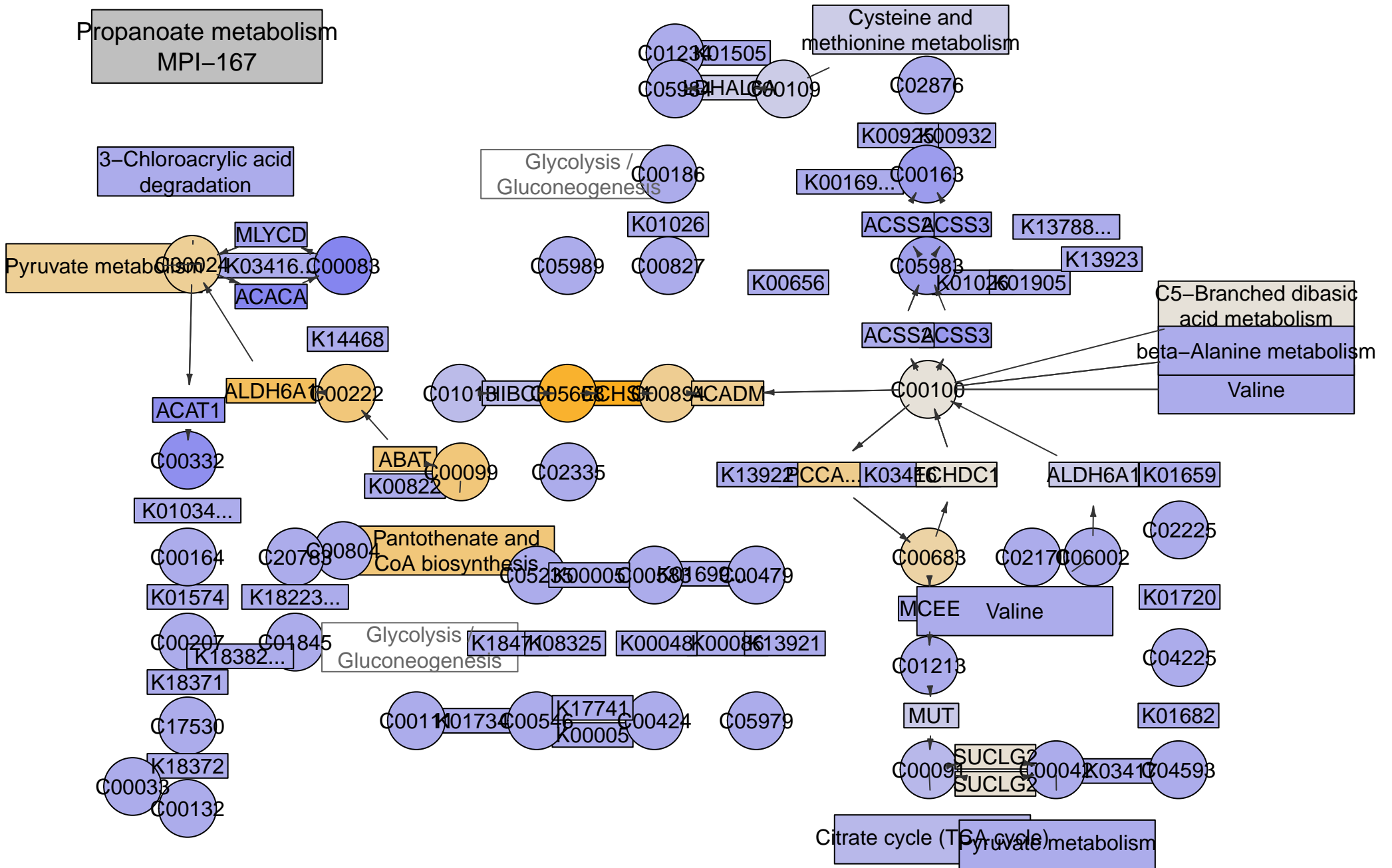
Glycolysis / Gluconeogenesis

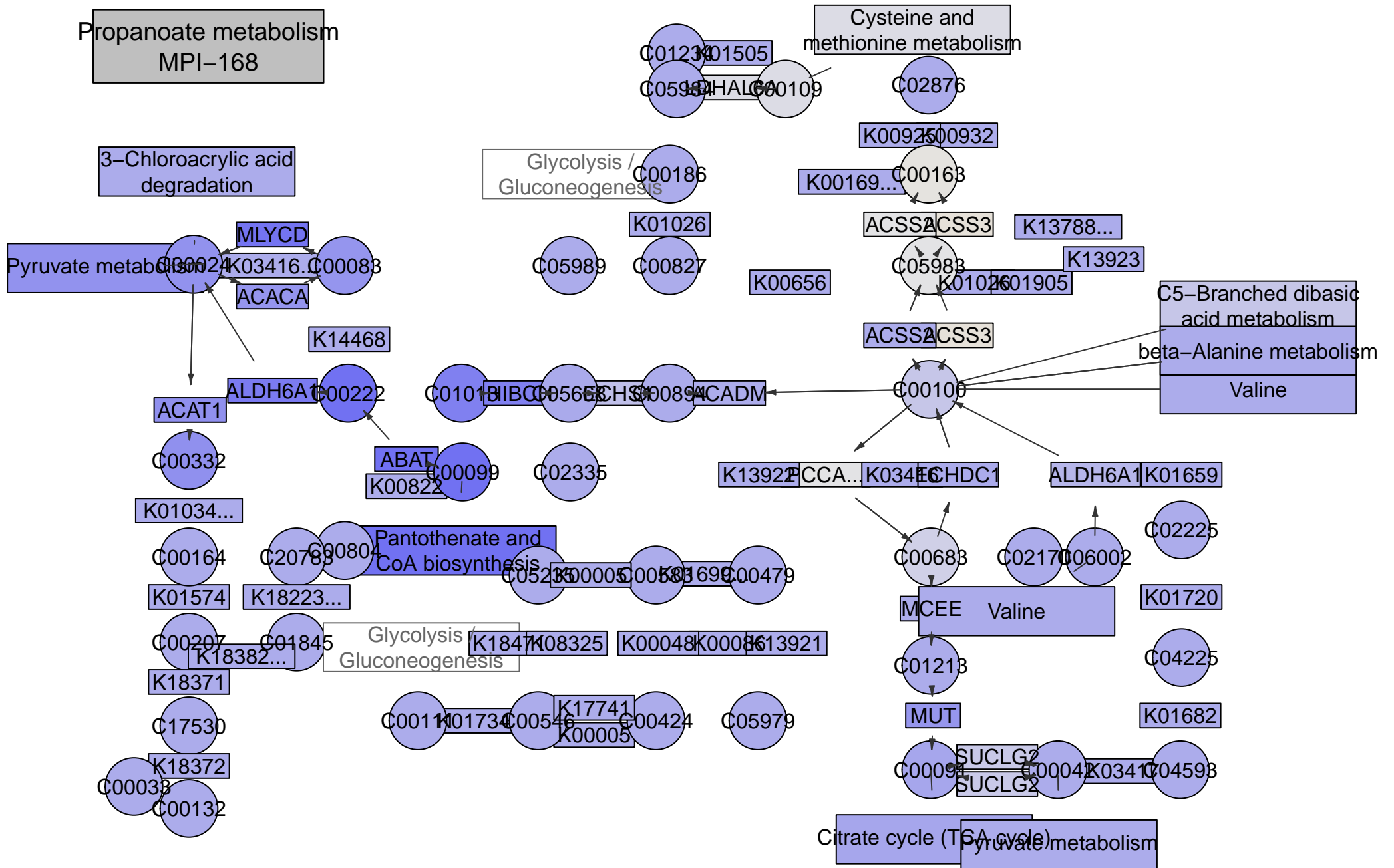
Citrate cycle (TCA cycle)
Pyruvate metabolism

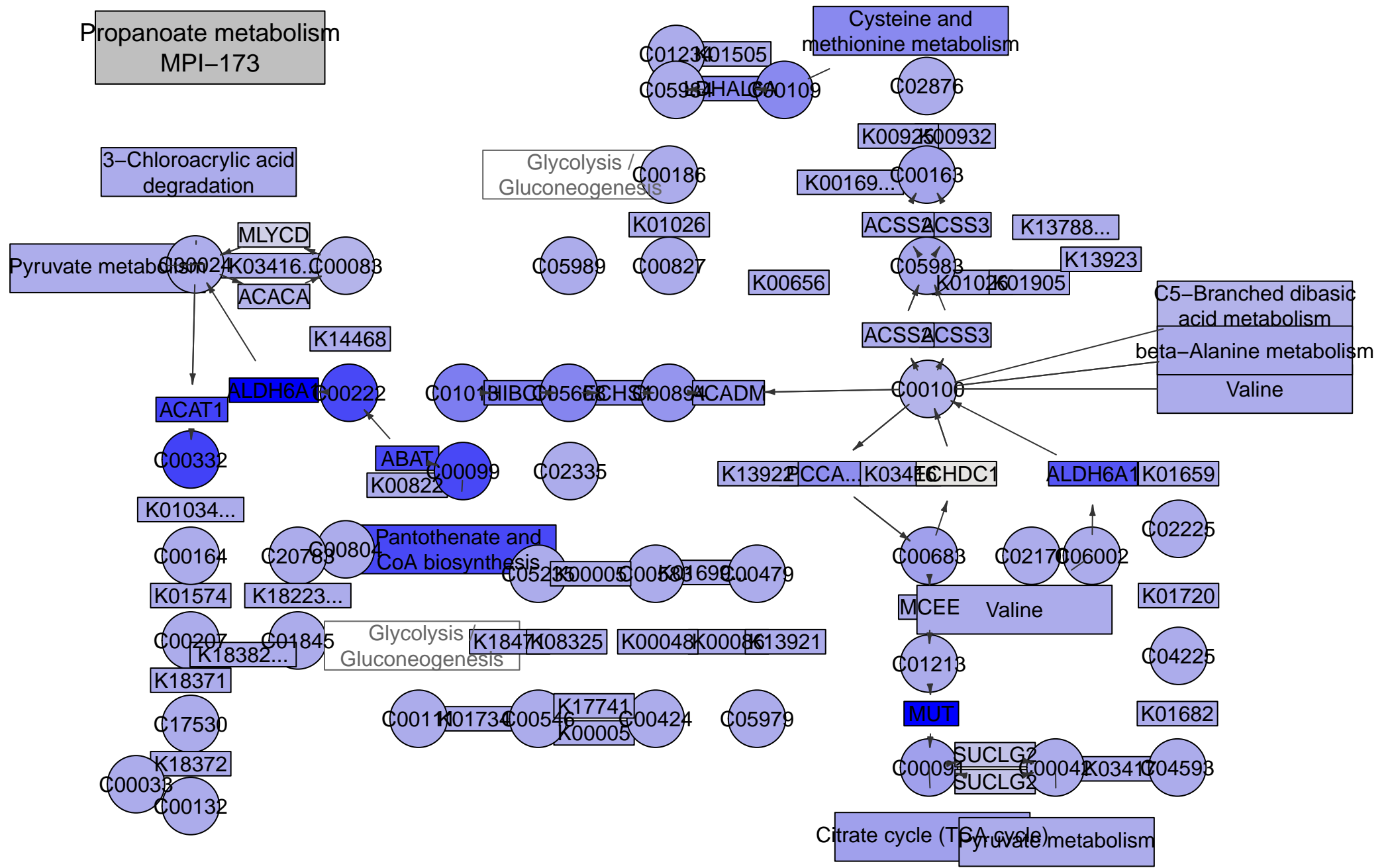


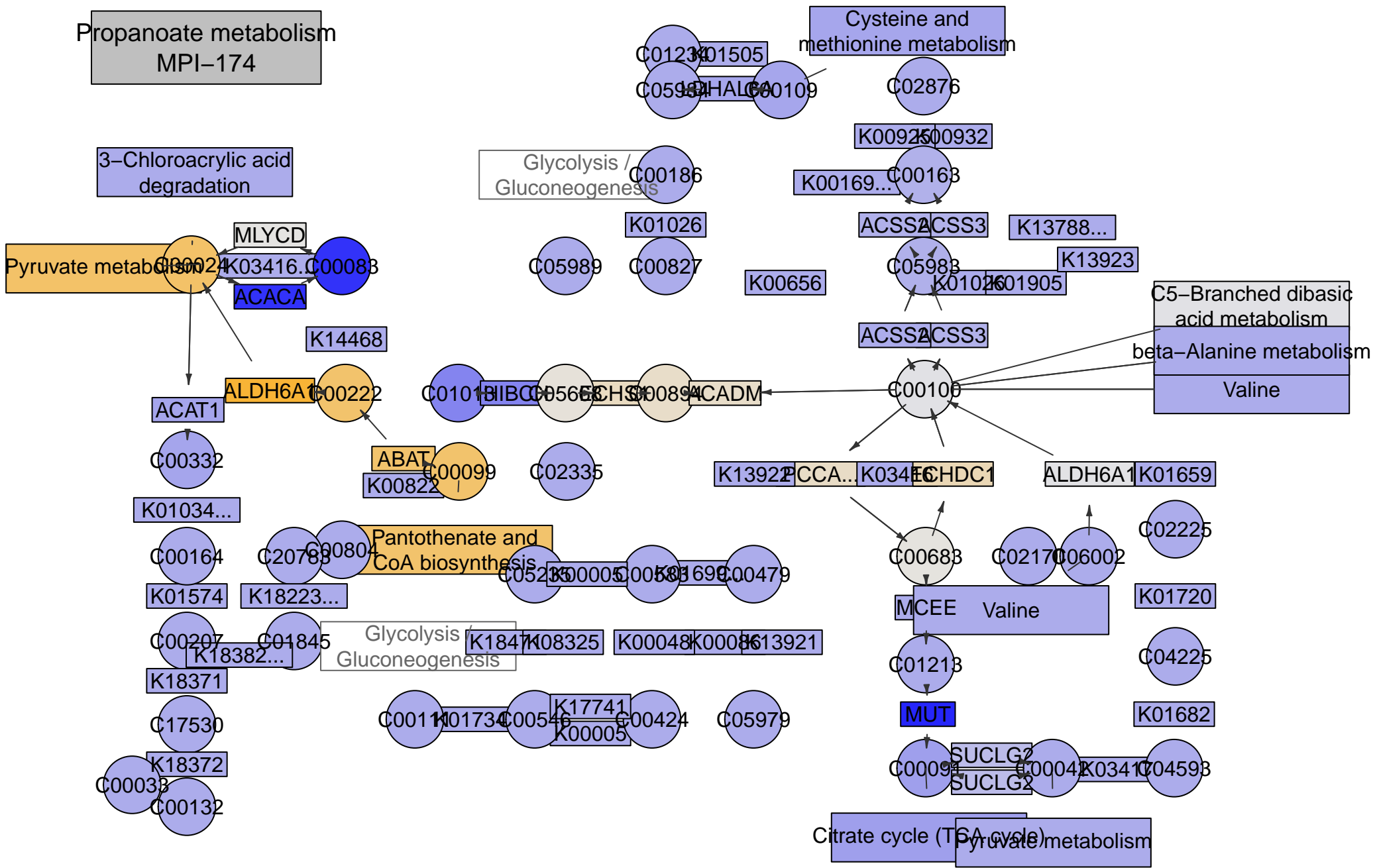


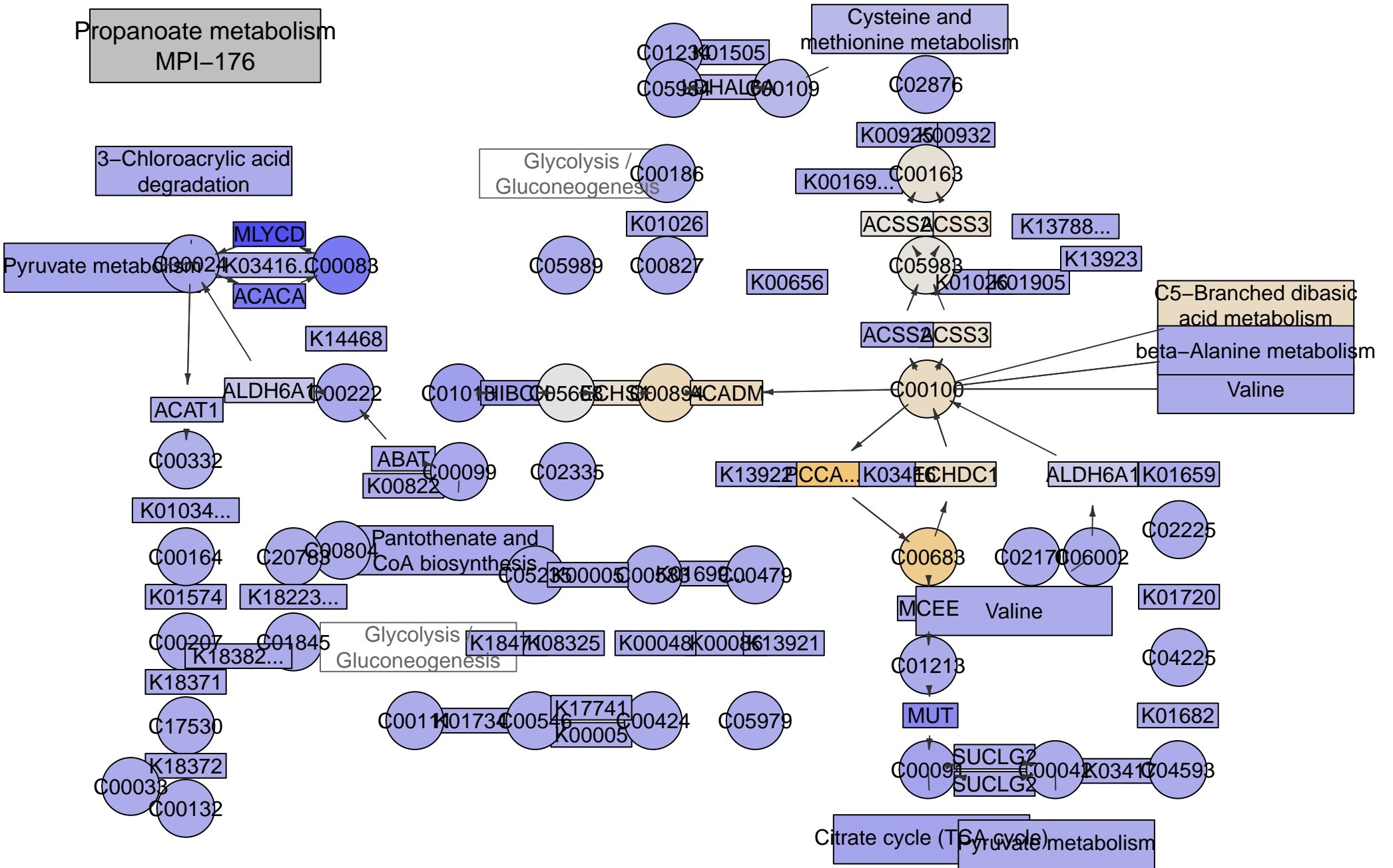


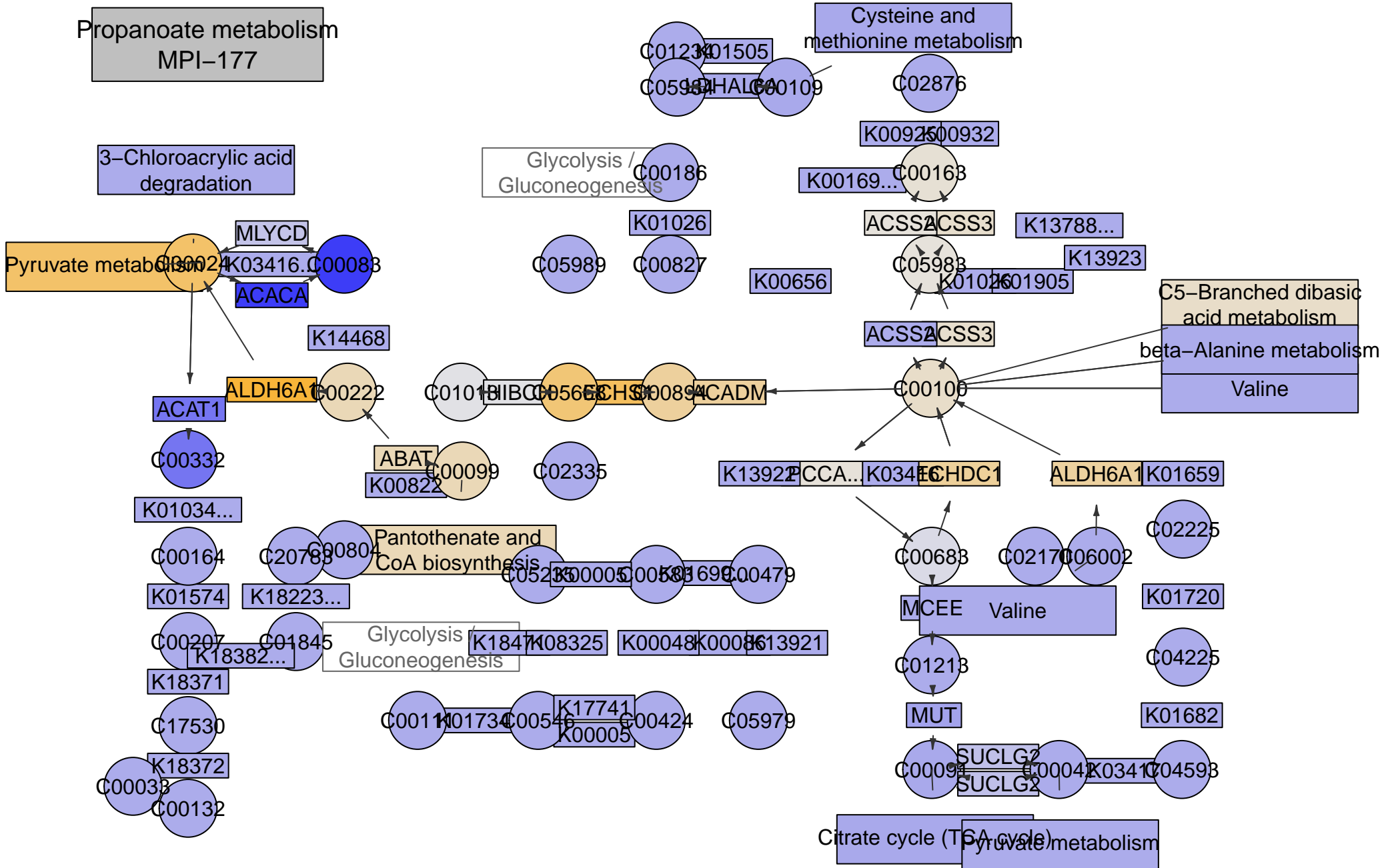












Propanoate metabolism
MPI-178

Cysteine and
methionine metabolism

3-Chloroacrylic acid
degradation

Glycolysis /
Gluconeogenesis

Pyruvate metabolism

MLYCD
K03416
C00083
ACACA

K01026
C05989
C00827

K00925
K00169...
C00163

ACSS2
ACSS3

K13788...

K14468

ALDH6A1
C00222

C01018
C00565
C00894
ACADM

ACSS2
ACSS3

C5-Branched dibasic
acid metabolism
beta-Alanine metabolism
Valine

ACAT1

C00332

ABAT
C00099

C02335

K13922
K03416
ECHDC1

ALDH6A1
K01659

K01034...

C00164

C20783

Pantothenate and
CoA biosynthesis

C05235
C00005
C00583
C00690
C00479

C00683

C02170

C06002

C02225

K01574

K18223...

MCEE

Valine

K01720

C00207

C01845

Glycolysis /
Gluconeogenesis

K18471
K08325

K00048
K00086
K13921

C01213

C04225

K18371

C17530

C00111

C01734

C00546

C00424

C05979

MUT

K01682

K18372

C00033

C00132

C00111

C01734

C00546

C00424

C05979

C00094

SUCLG2

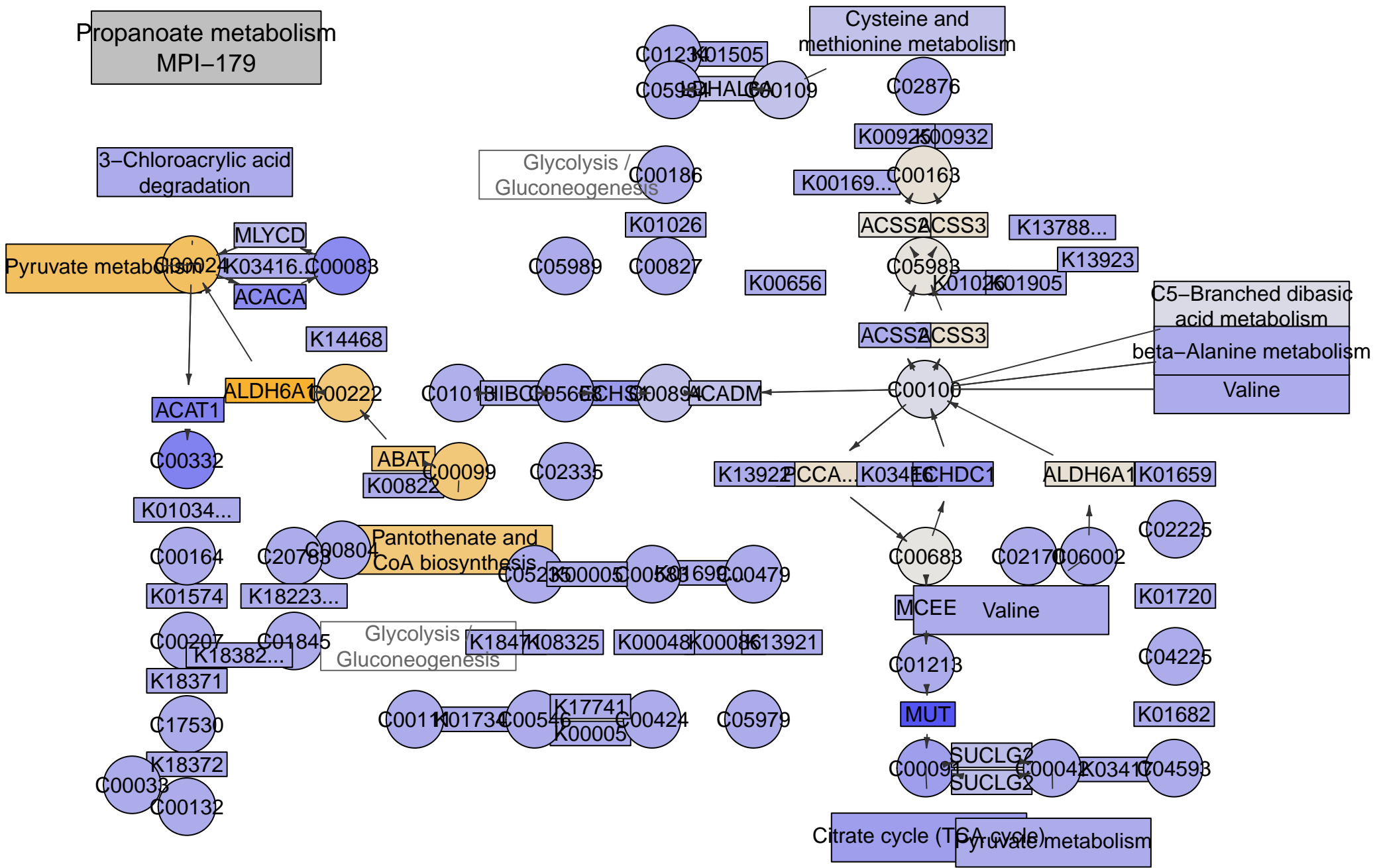
SUCLG2

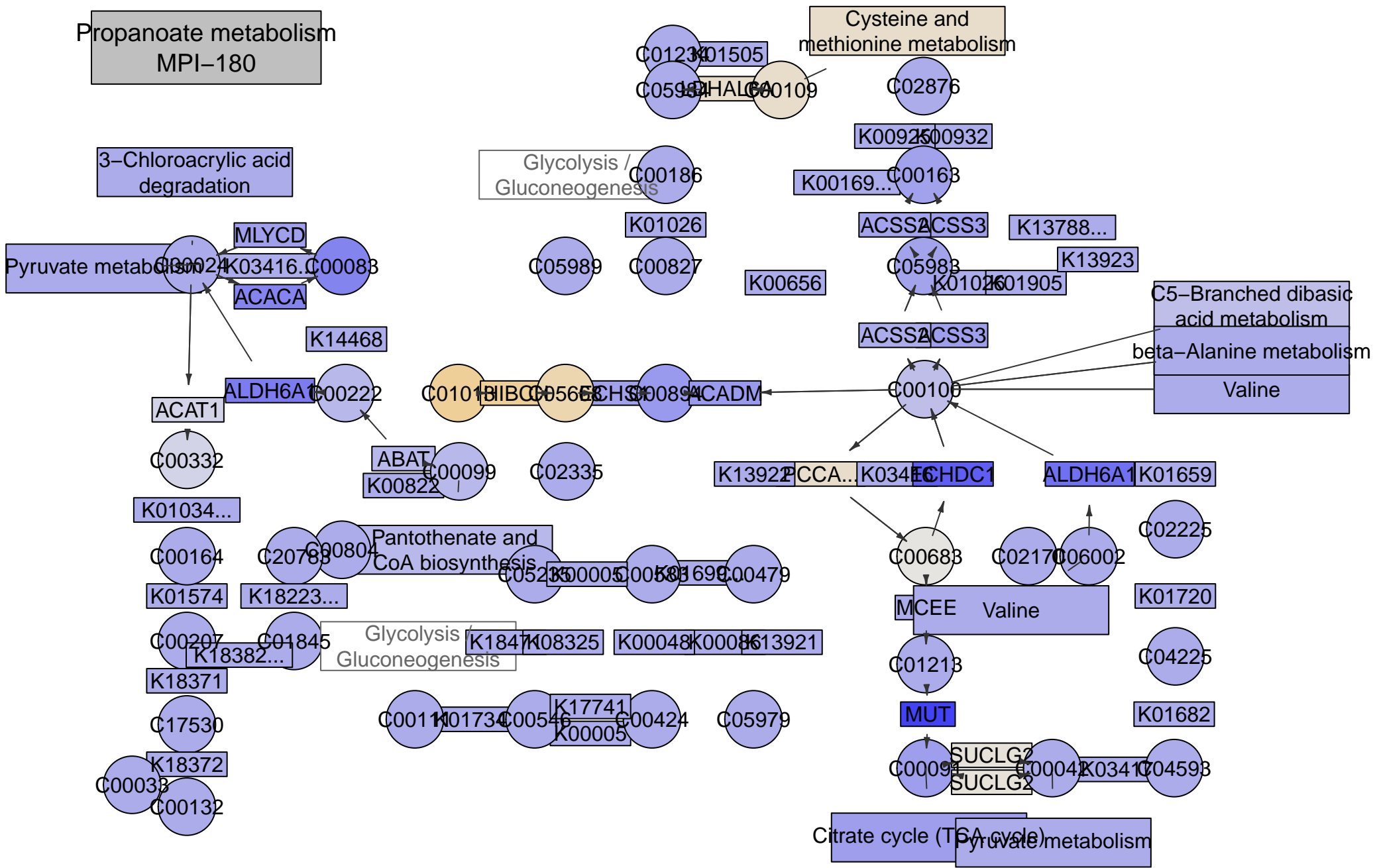
C00041

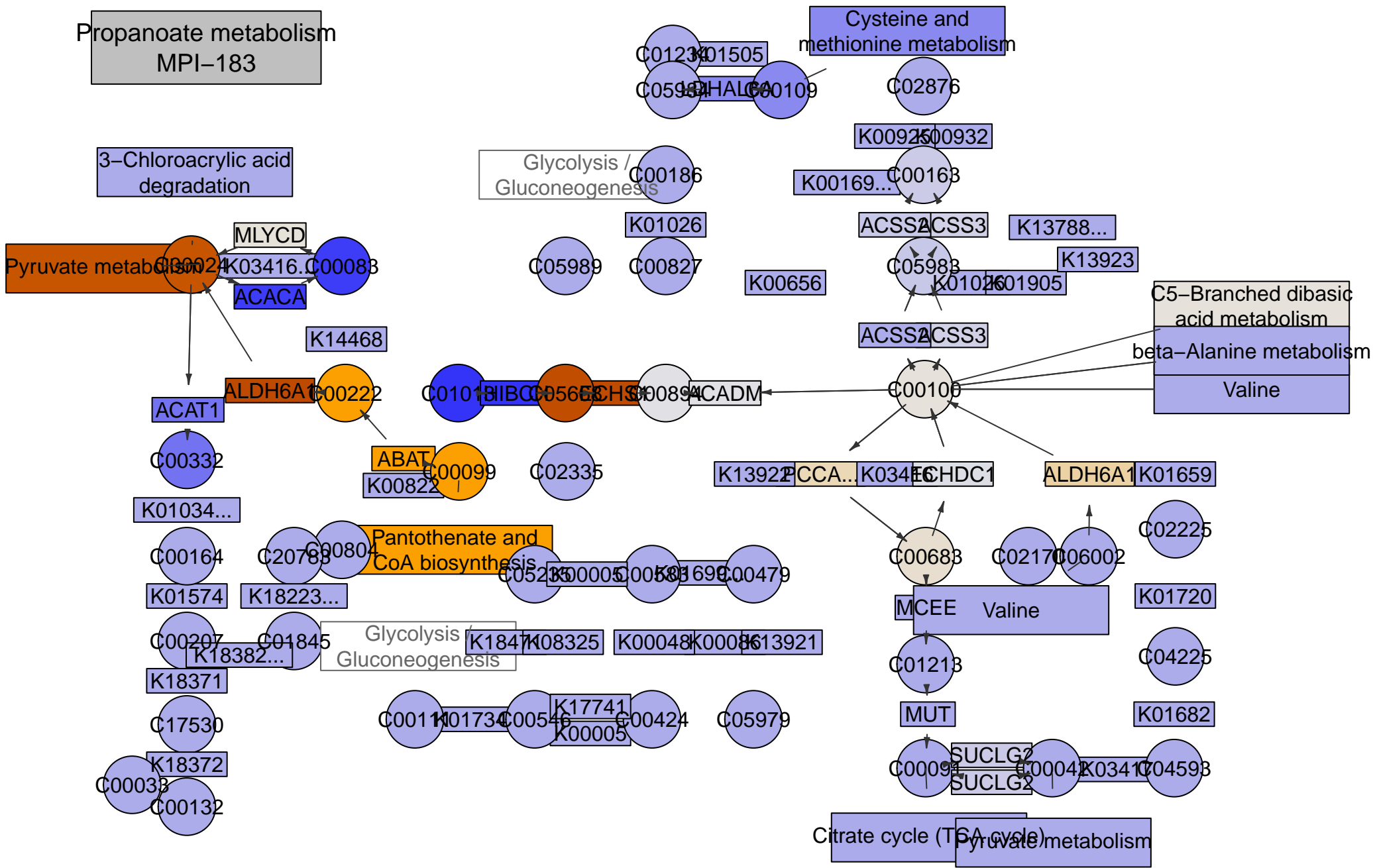
K03416

C04593

Citrate cycle (TCA cycle)
pyruvate metabolism







Propanoate metabolism
MPI-184

Cysteine and
methionine metabolism

3-Chloroacrylic acid
degradation

Glycolysis /
Gluconeogenesis

K00169...

Pyruvate metabolism

C5-Branched dibasic
acid metabolism
beta-Alanine metabolism
Valine

K01034...

Pantothenate and
CoA biosynthesis

Glycolysis /
Gluconeogenesis

Citrate cycle (TCA cycle)
pyruvate metabolism

