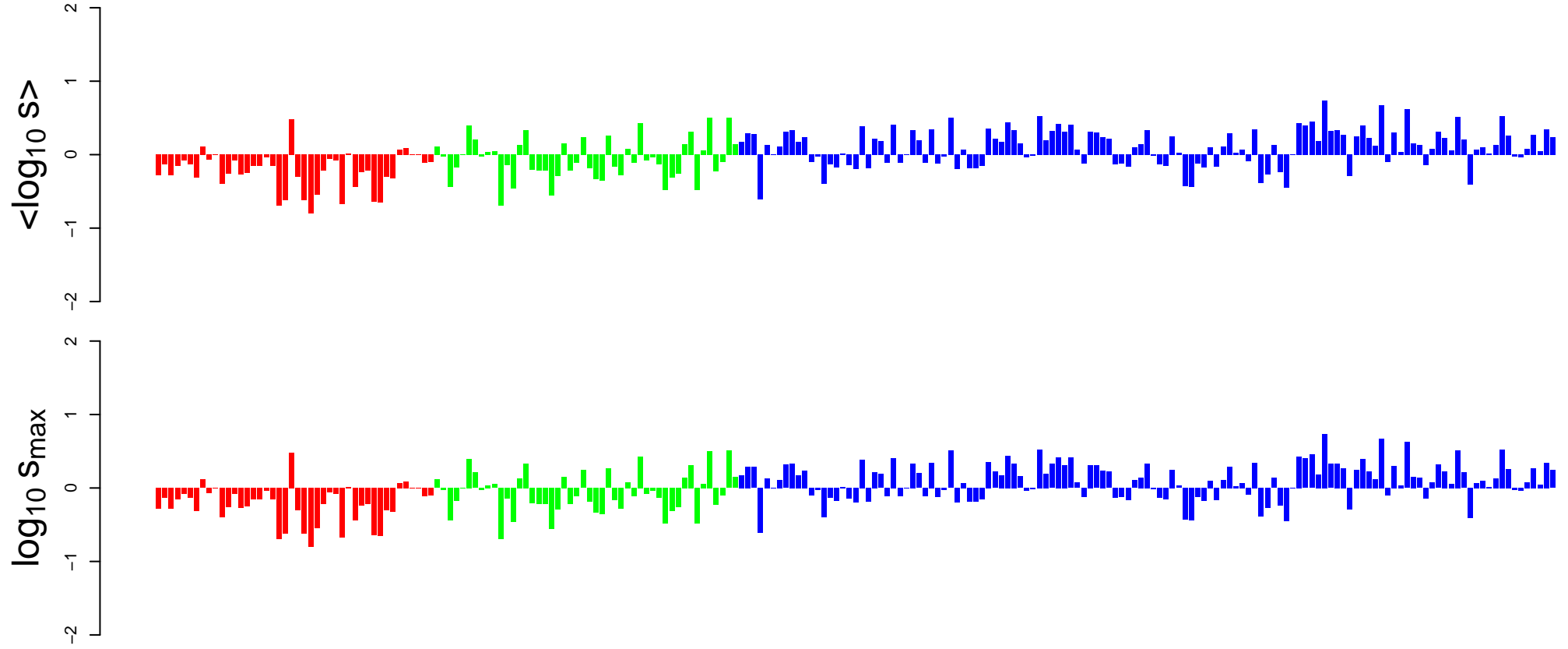
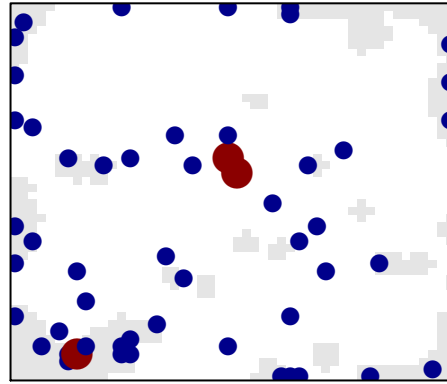


Glycerolipid metabolism

all genes



Glycerolipid metabolism
(genes with data)

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118

K06119
C00029

C13508

C06037
C04872

GLA
K09480

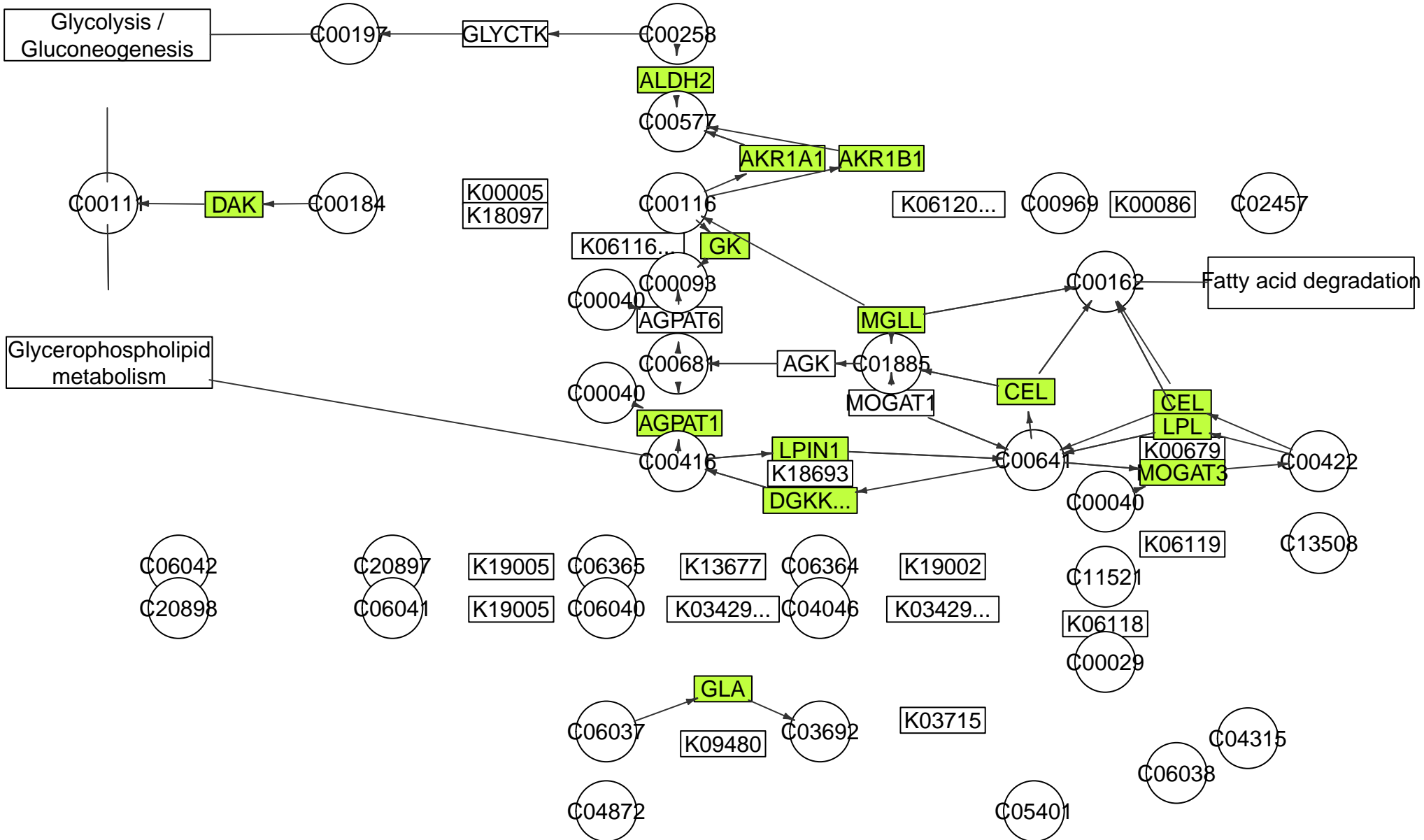
C03692

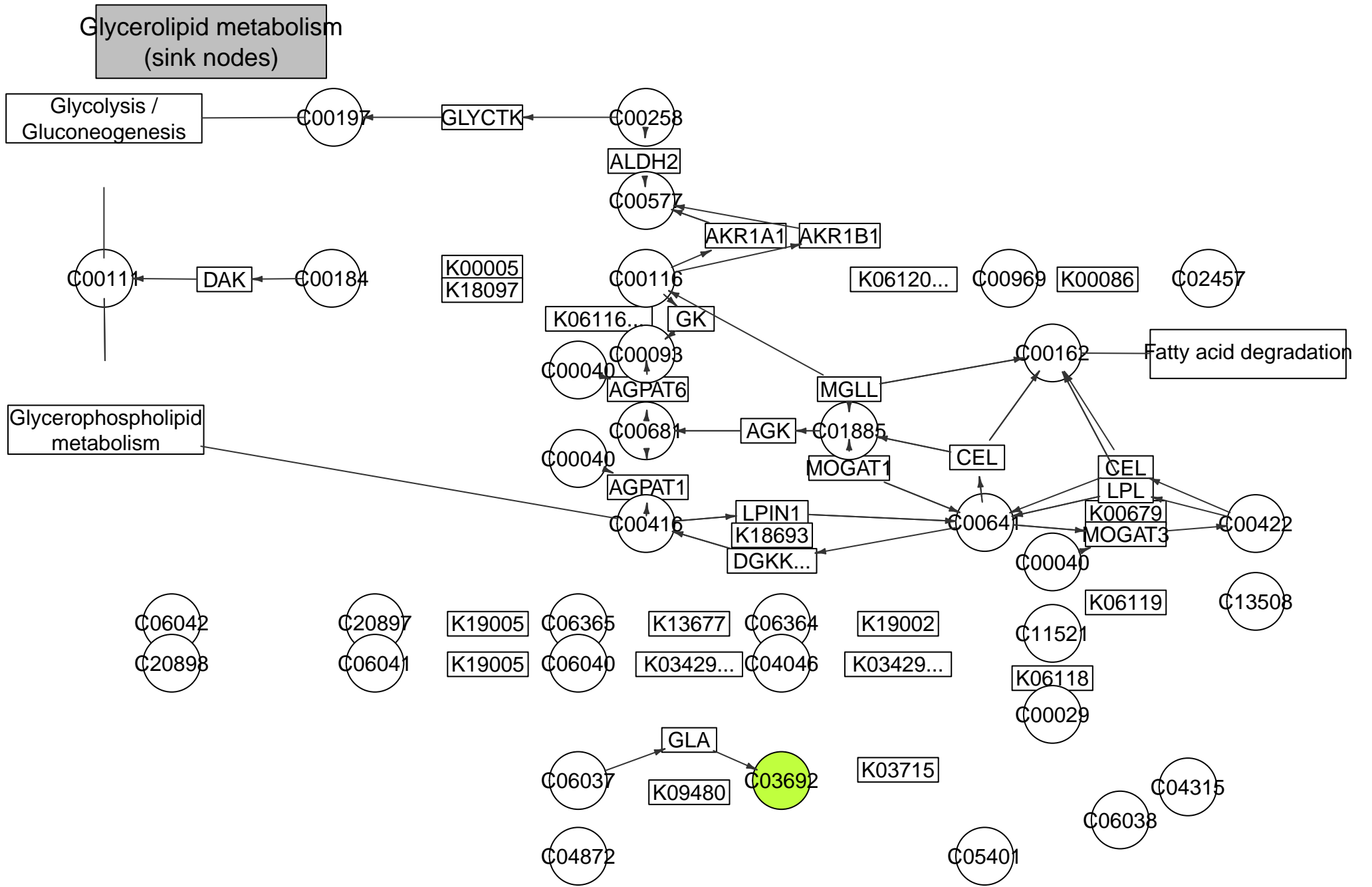
K03715

C05401

C06038

C04315





Glycerolipid metabolism
MPI-001

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

C11521

K06118

K06119

C00029

C13508

C06037

C04872

GLA

K09480

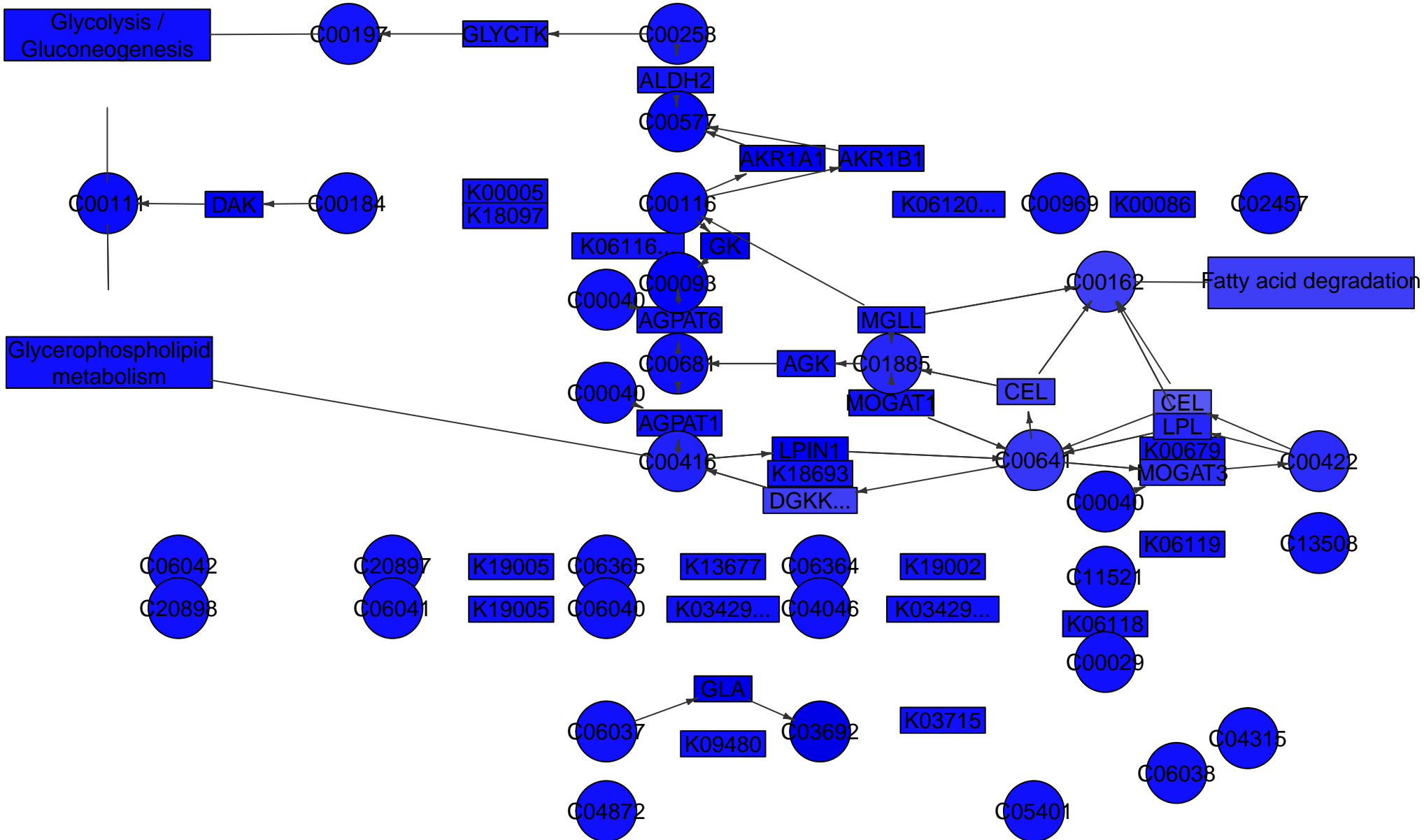
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-002

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

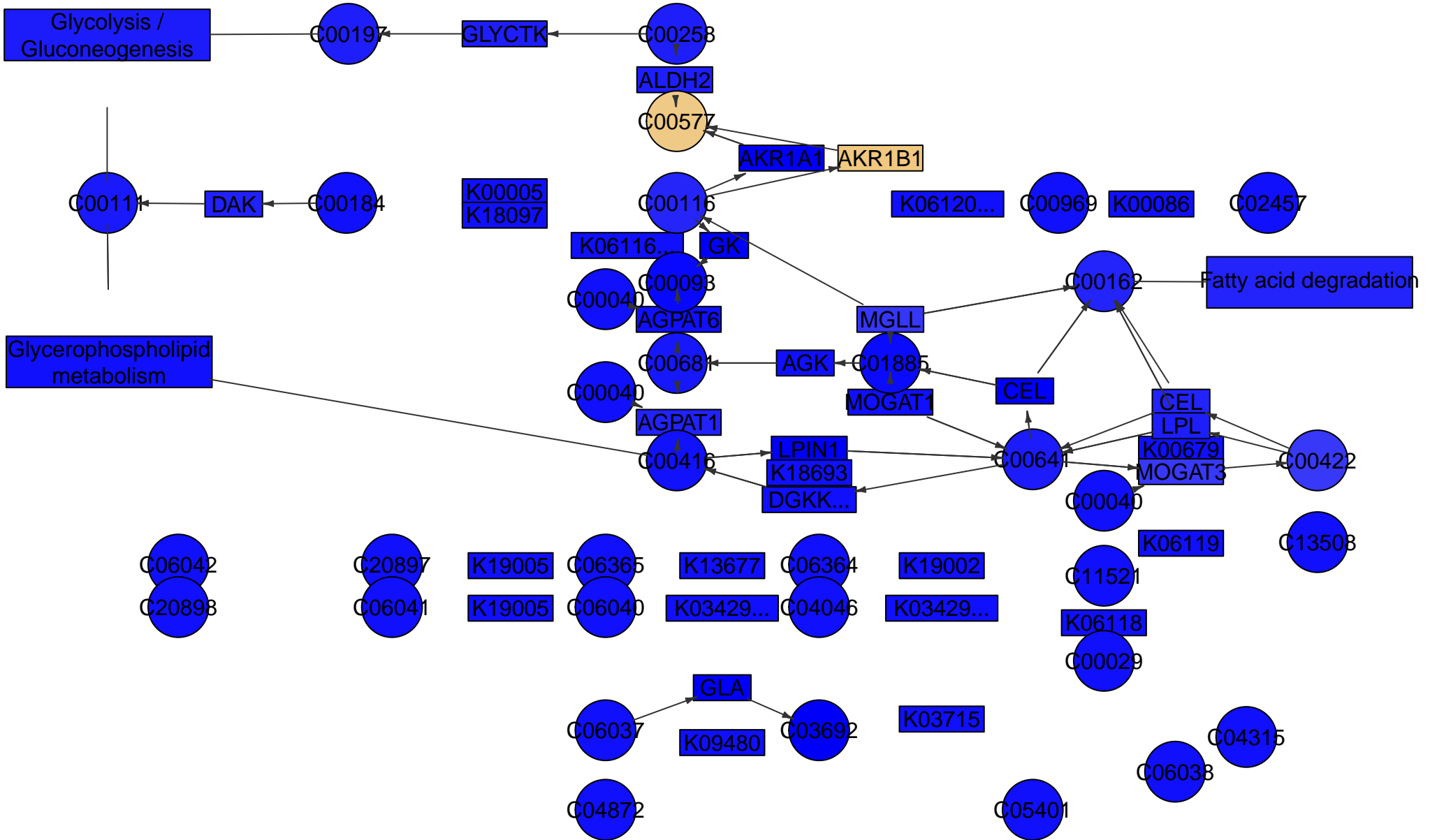
K19002

K03429...

K06119

K06118

C13508



Glycerolipid metabolism
MPI-003

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C06037
C04872

GLA
K09480

C03692

K03715

C05401

C06038

C04315

C00197

GLYCTK

C00258

ALDH2

C00577

AKR1A1

AKR1B1

C00116

K06116...

GK

K06120...

C00969

K00086

C02457

C00040
C00098

AGPAT6

MGLL

C00162

Fatty acid degradation

C00040
C00681

AGPAT1

AGK

MOGAT1

CEL

CEL
LPL

C00040
C00416

LPIN1
K18693

DGKK...

C00641

K00679
MOGAT3

C00422

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C06037
C04872

GLA
K09480

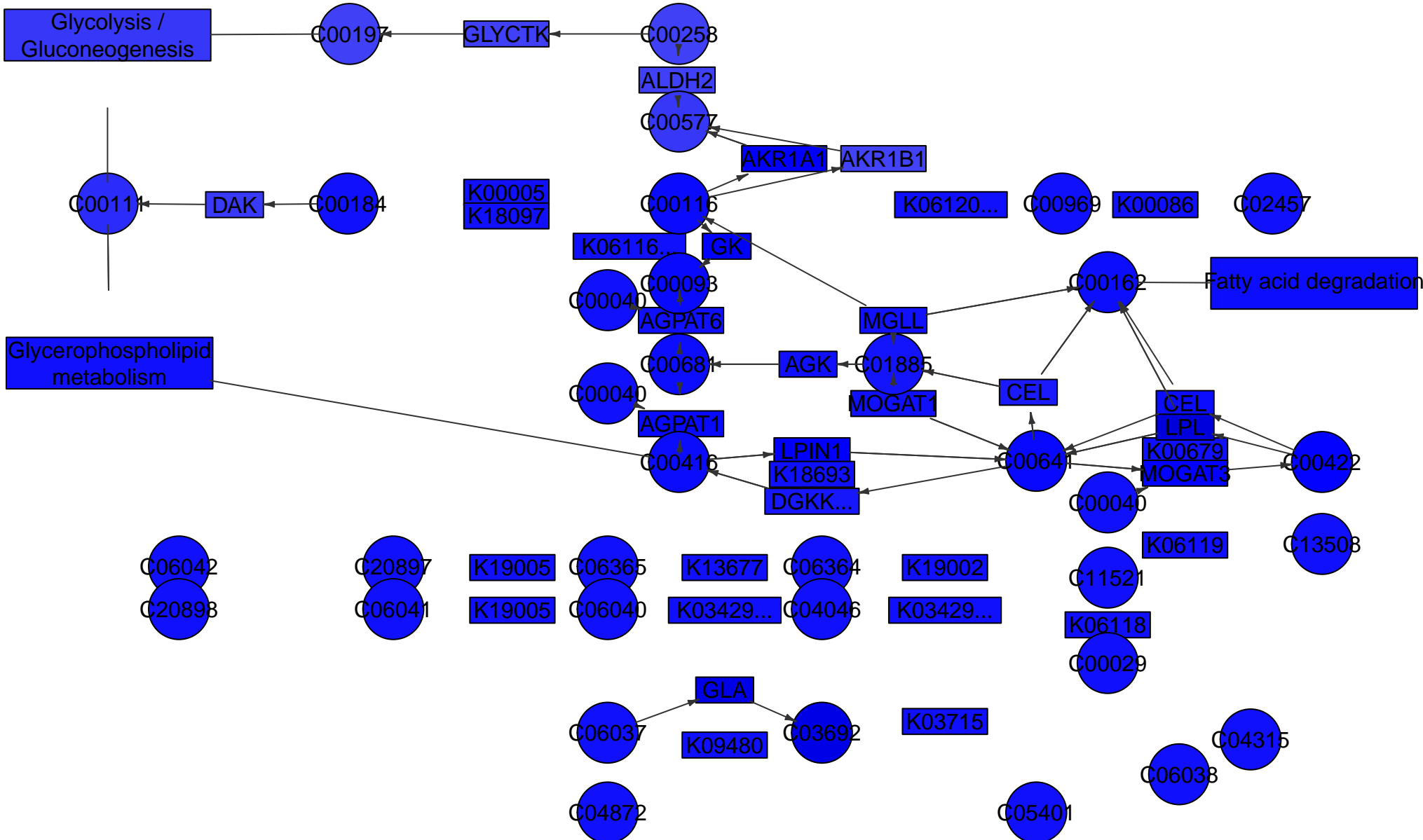
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-005

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C00040
C06038

C13508

C06037
C04872

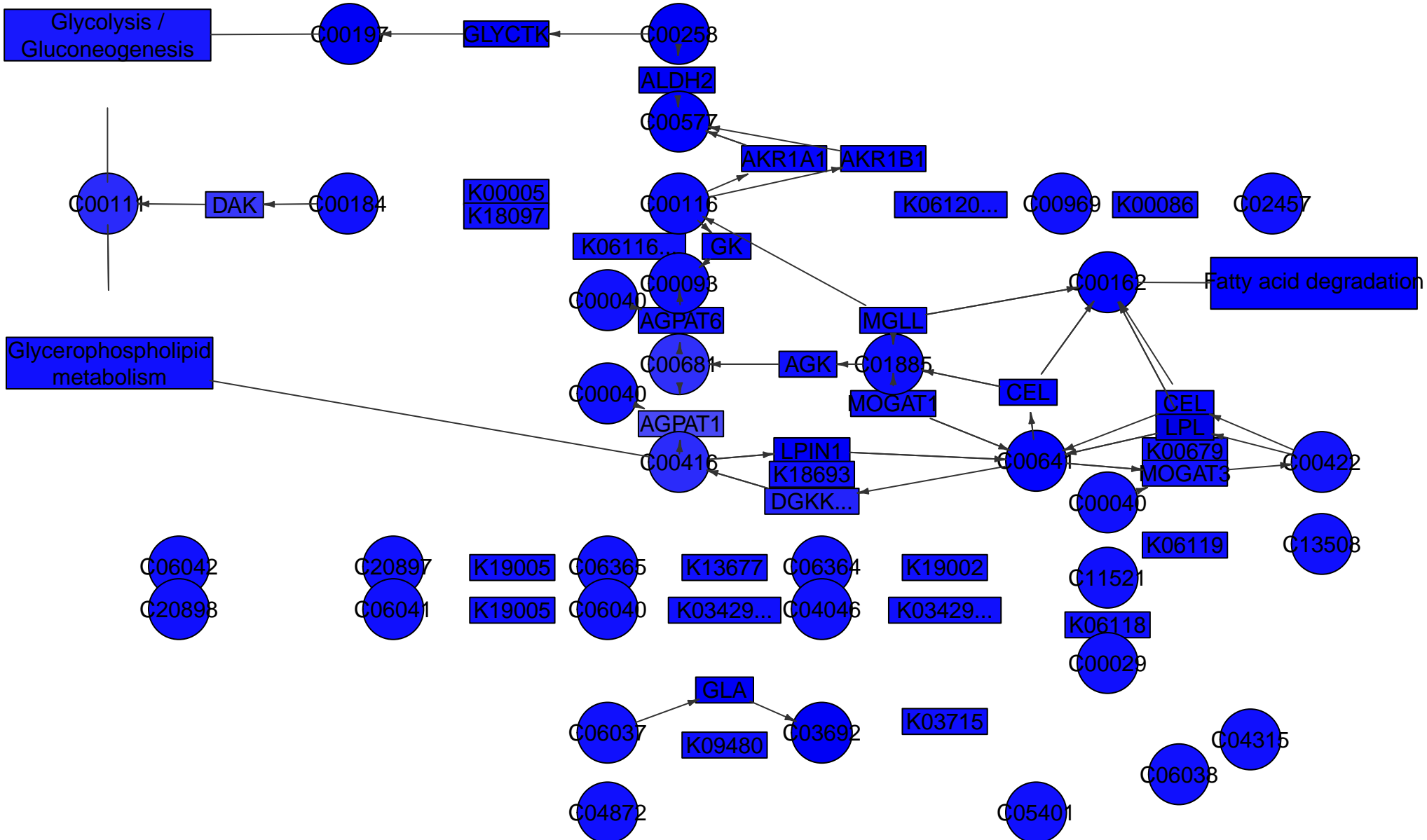
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-016

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C00040
C11521
C00029

K06119
K06118
C06038

C13508

C04315

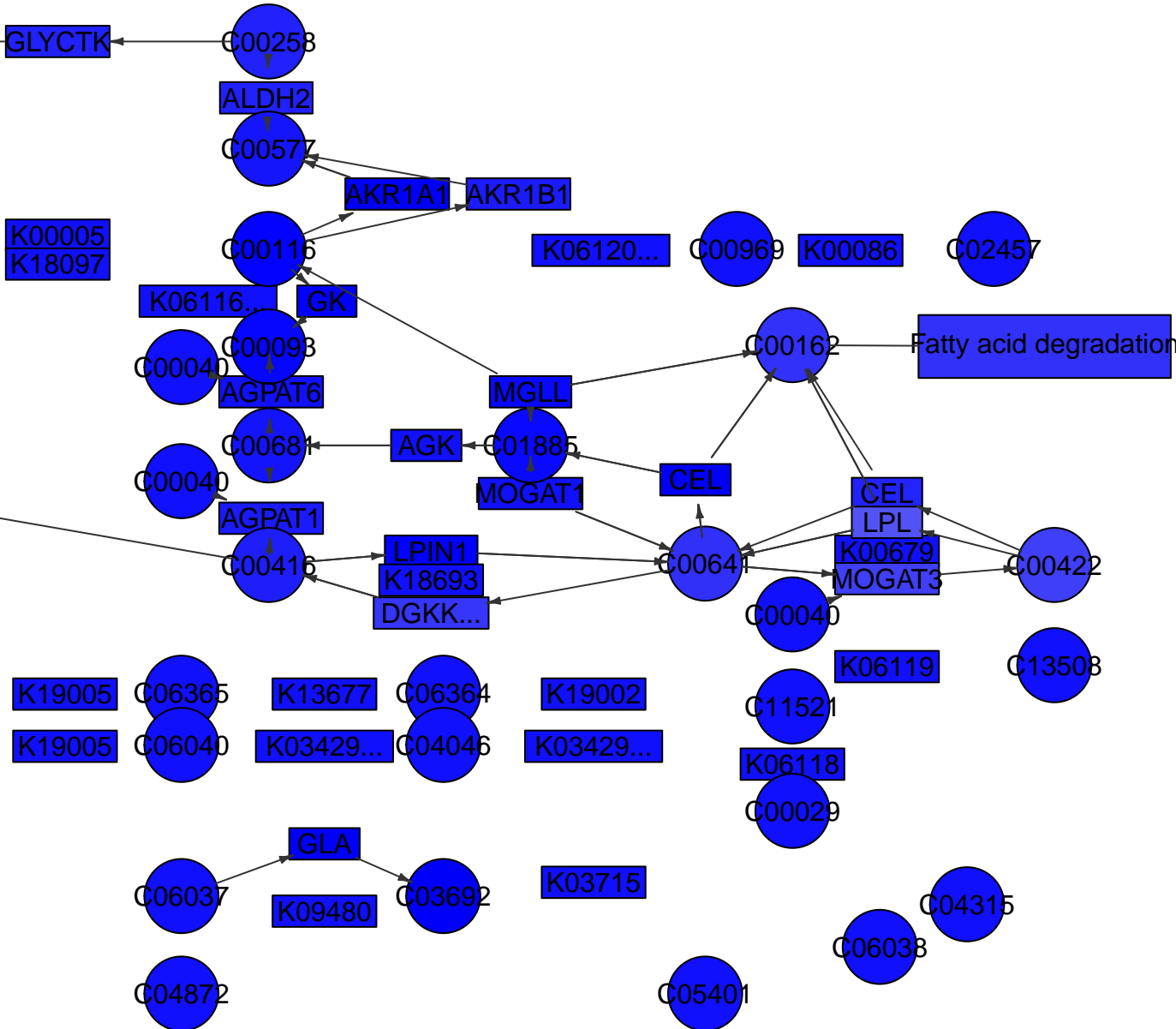
C06037
C04872

GLA
K09480

C03692

K03715

C05401



Glycerolipid metabolism
MPI-017

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

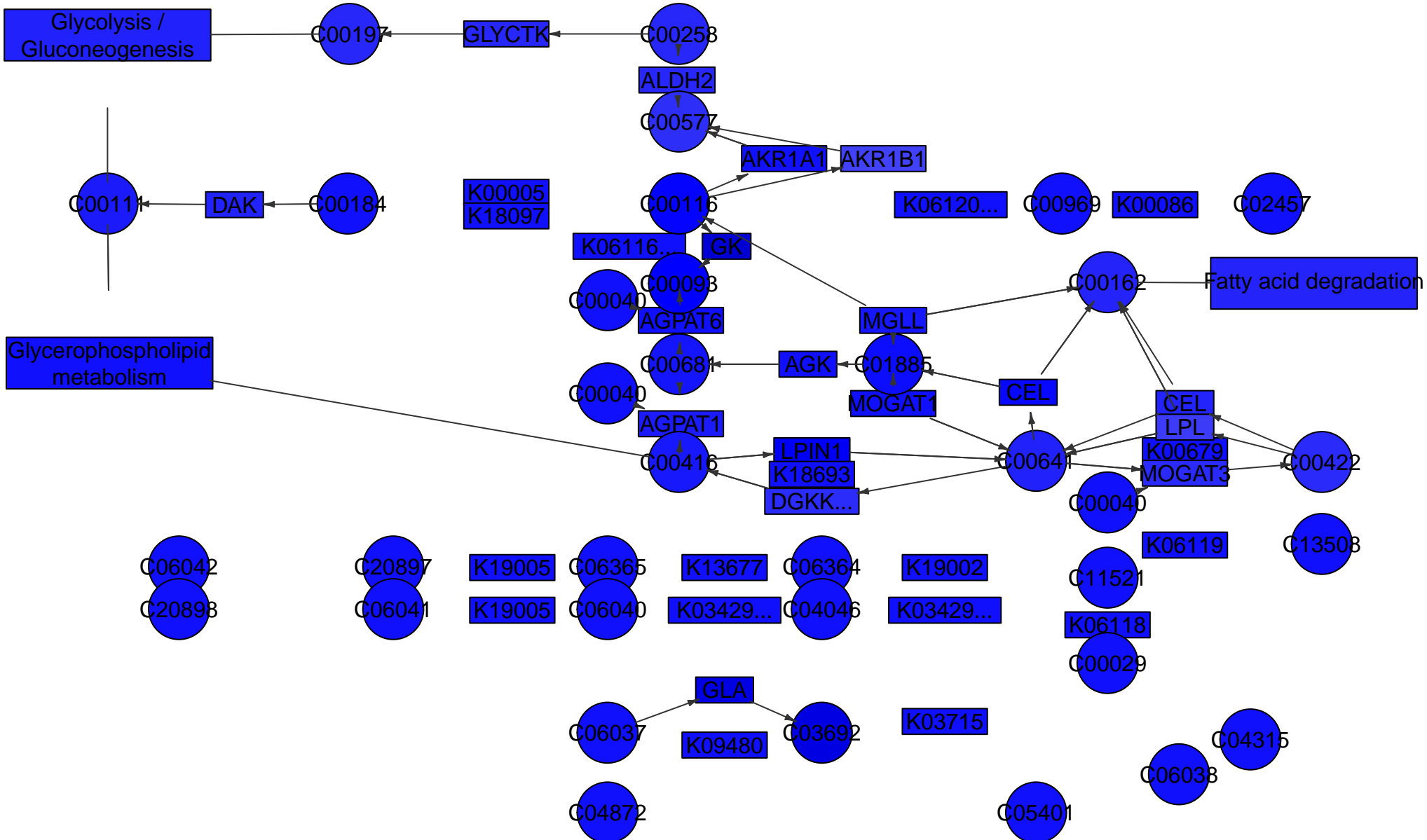
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-027

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C00040
C06038

C13508

C06037
C04872

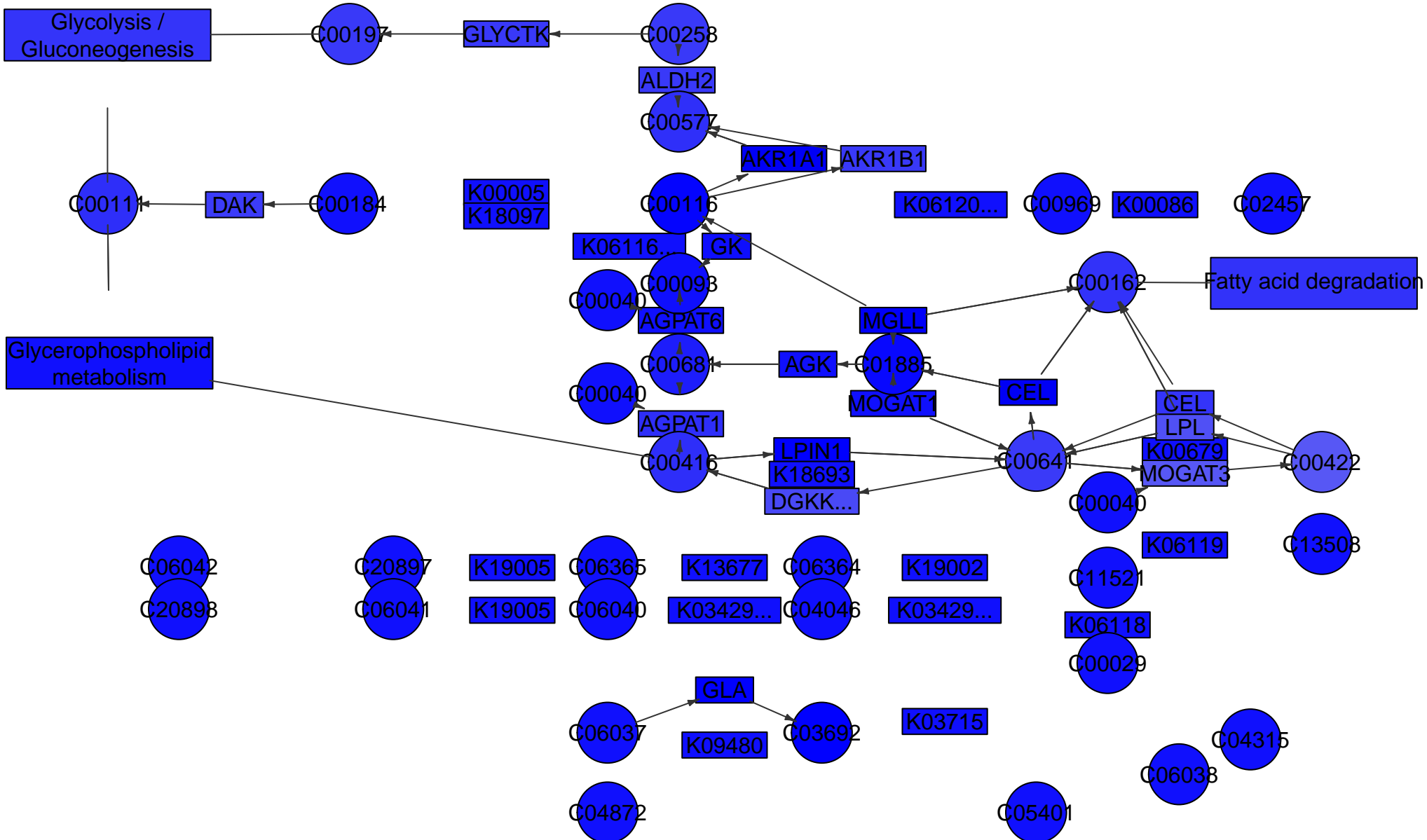
GLA
K09480

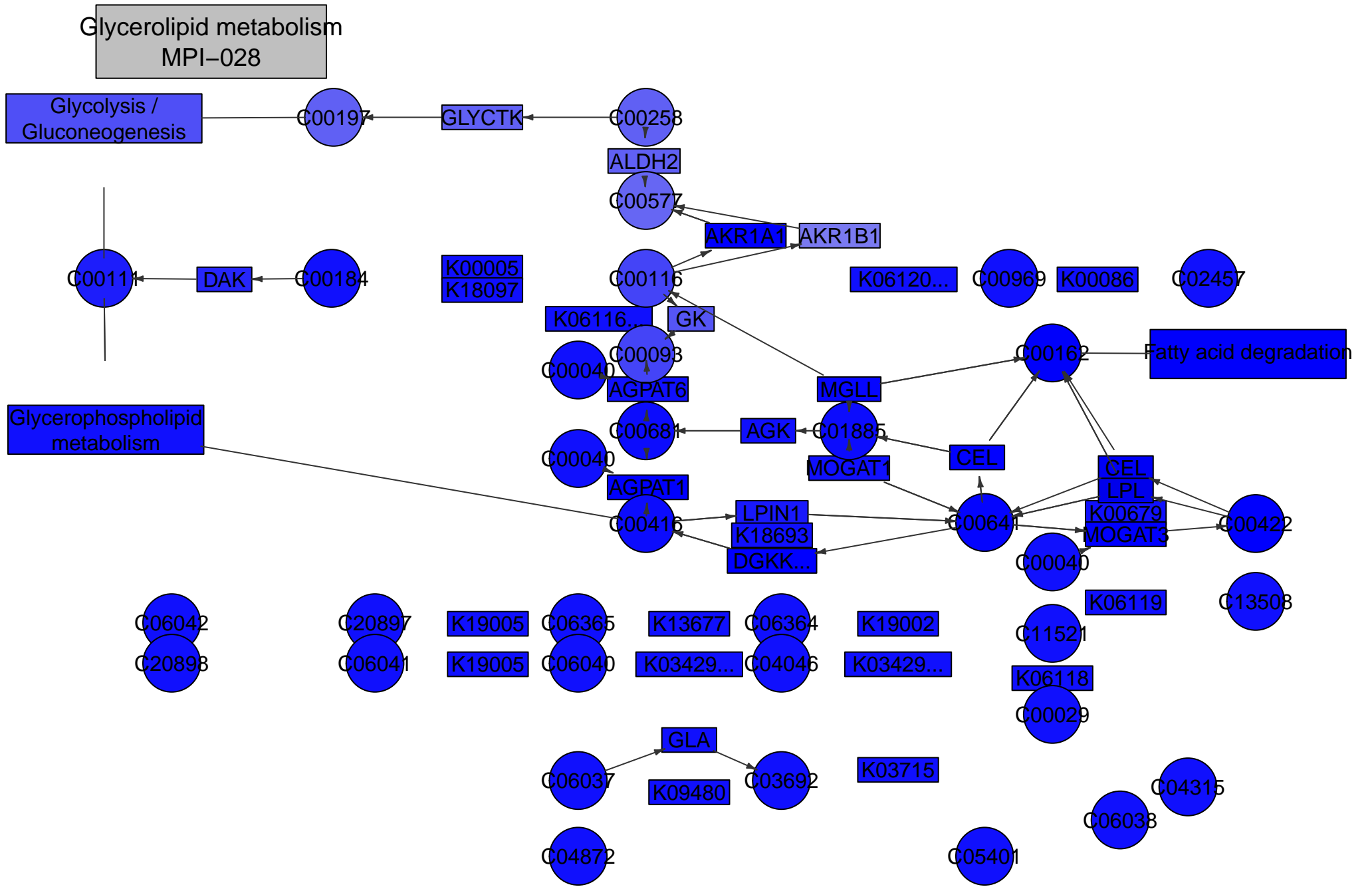
C03692

K03715

C05401

C04315





Glycerolipid metabolism
MPI-033

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C00040
C06038

C13508

C06037
C04872

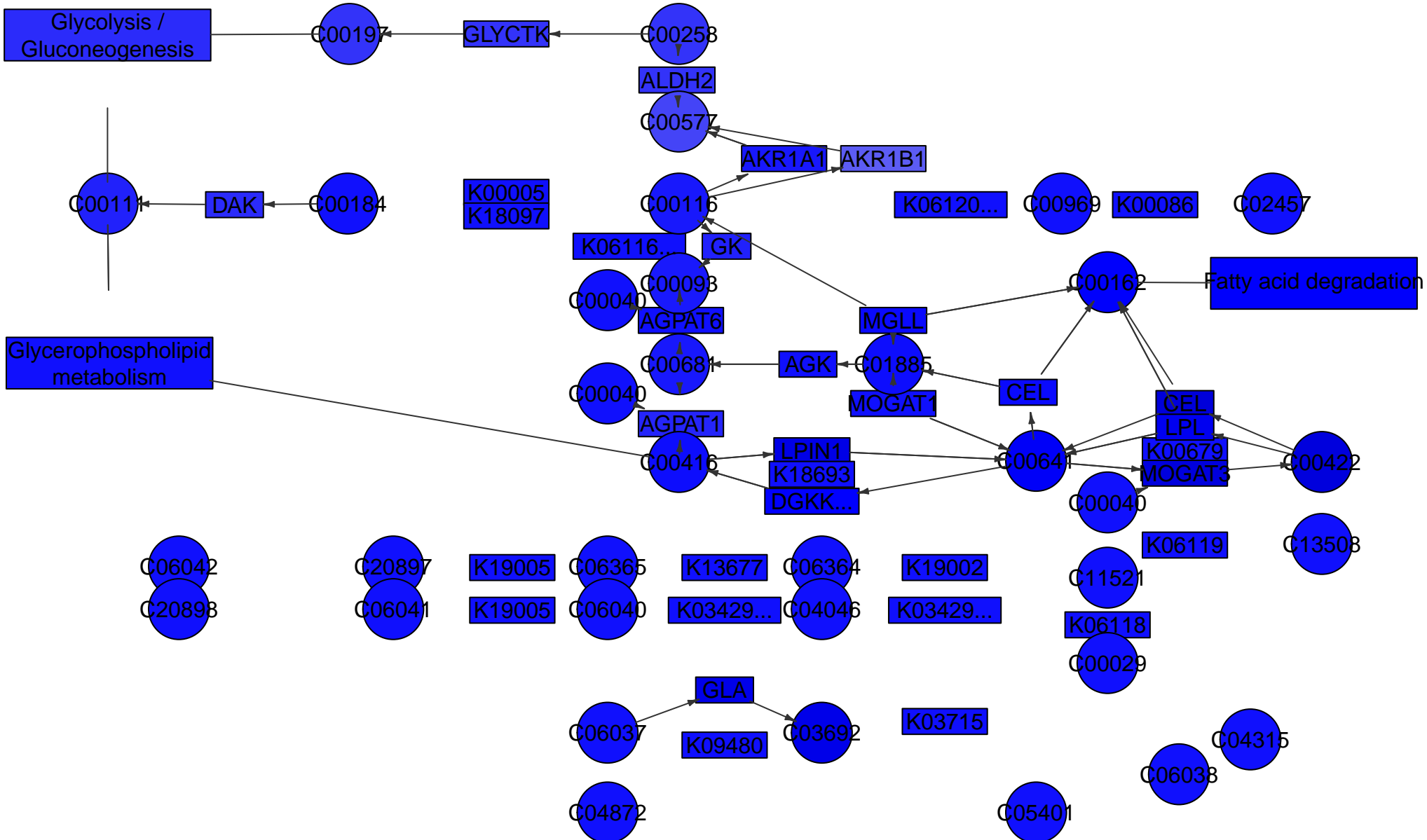
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-034

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C00040
C06038

C13508

C06037
C04872

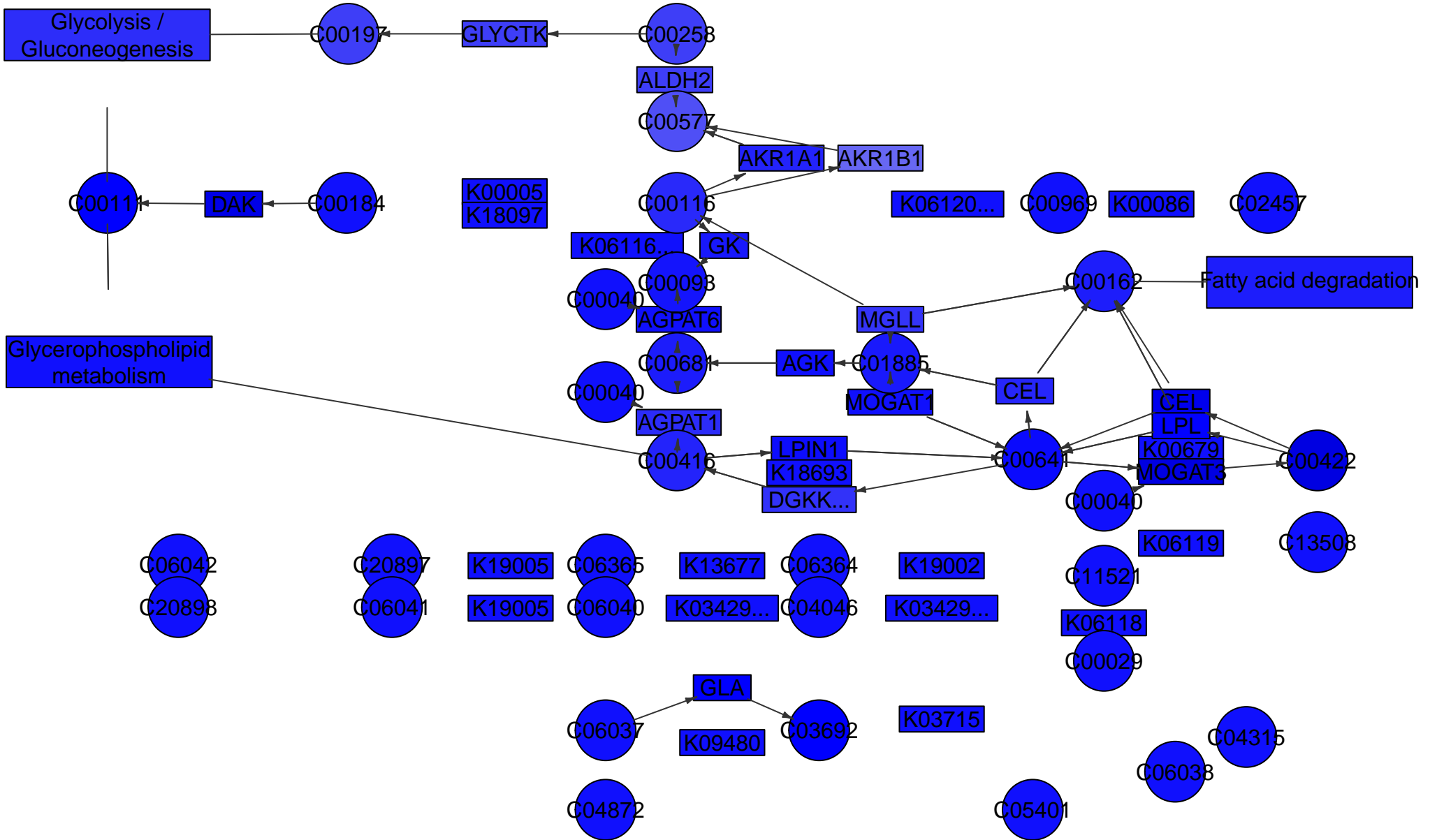
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-043

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

C11521

K06118

K06119

C00029

C13508

C06037

C04872

GLA

K09480

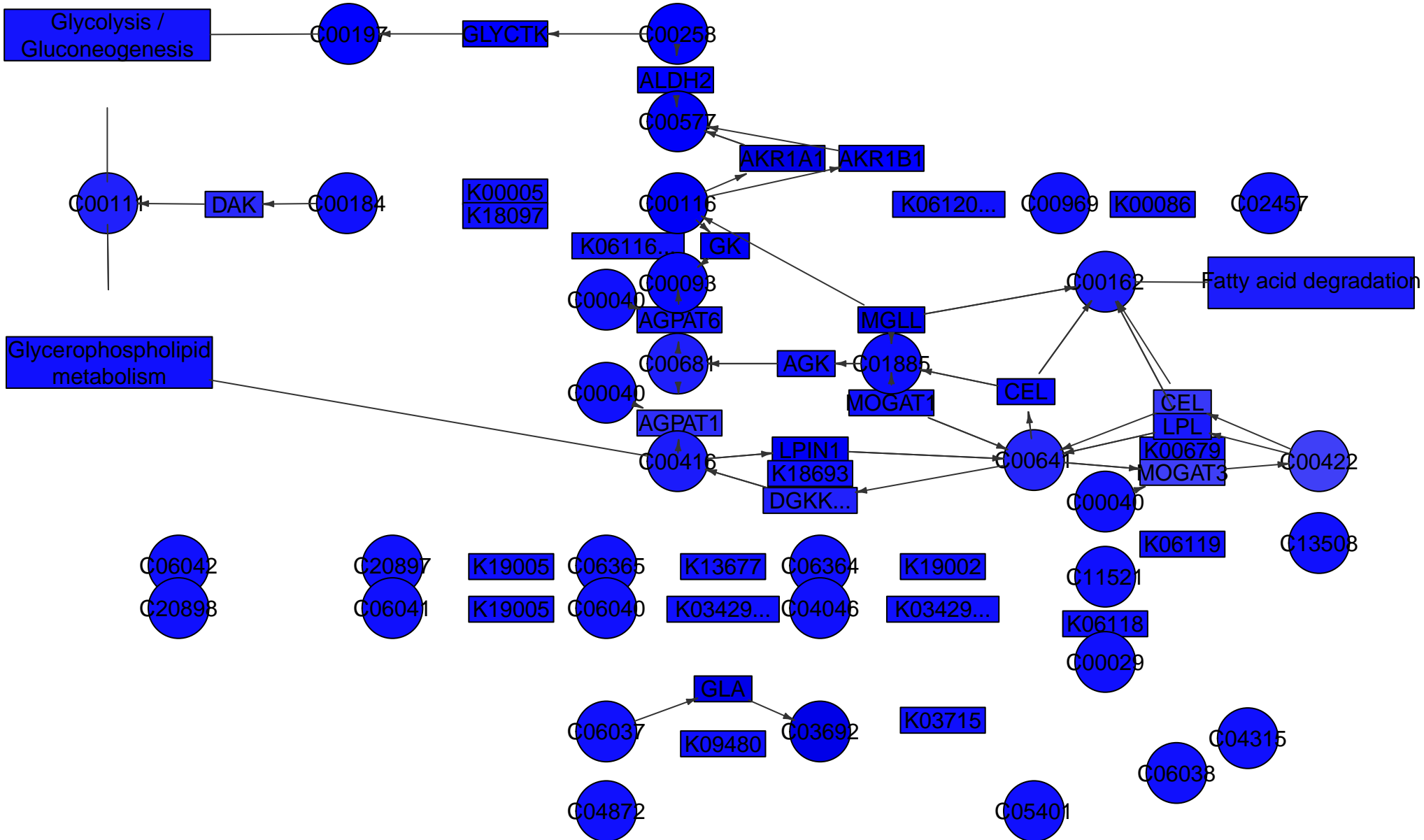
C03692

K03715

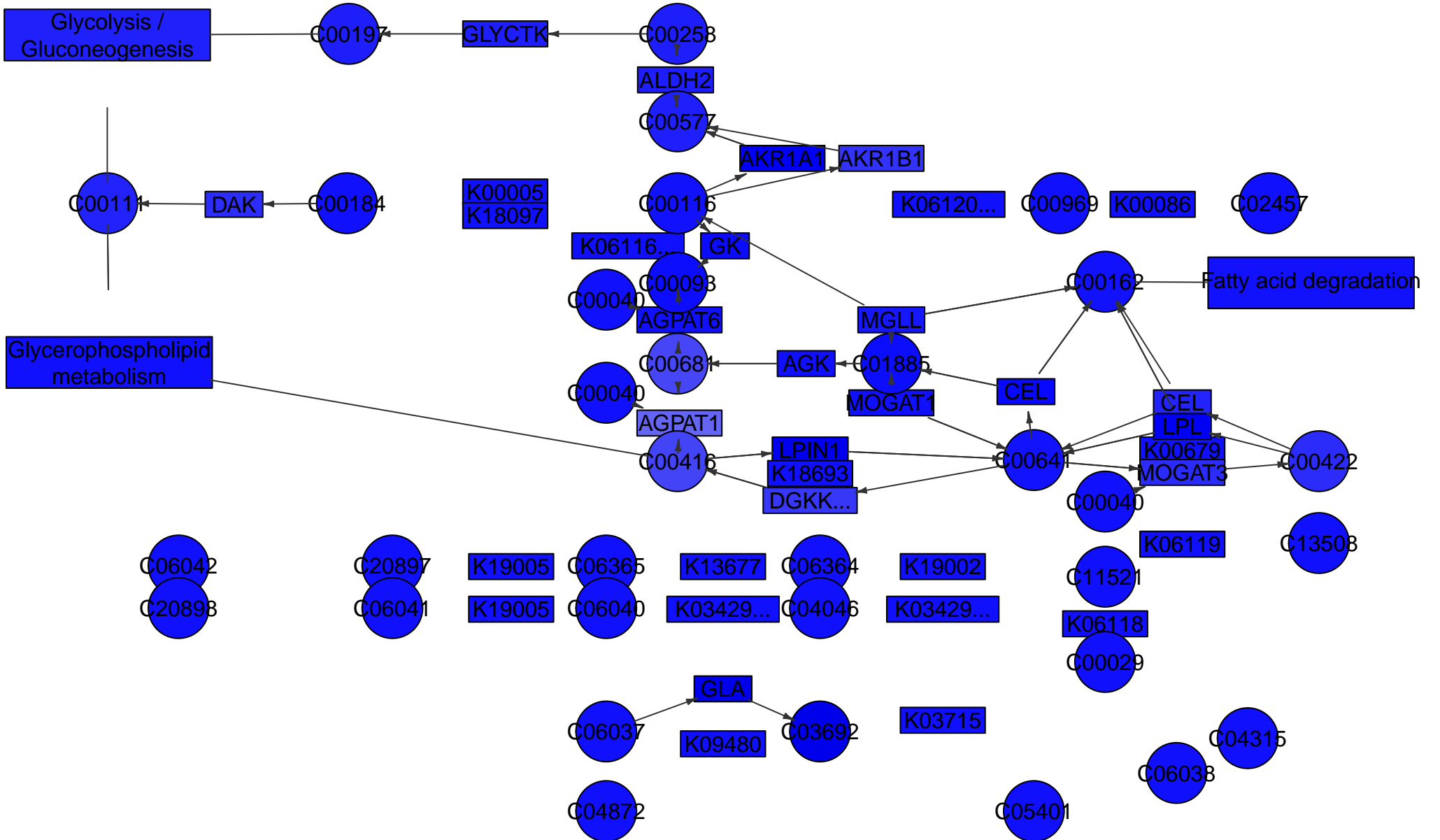
C05401

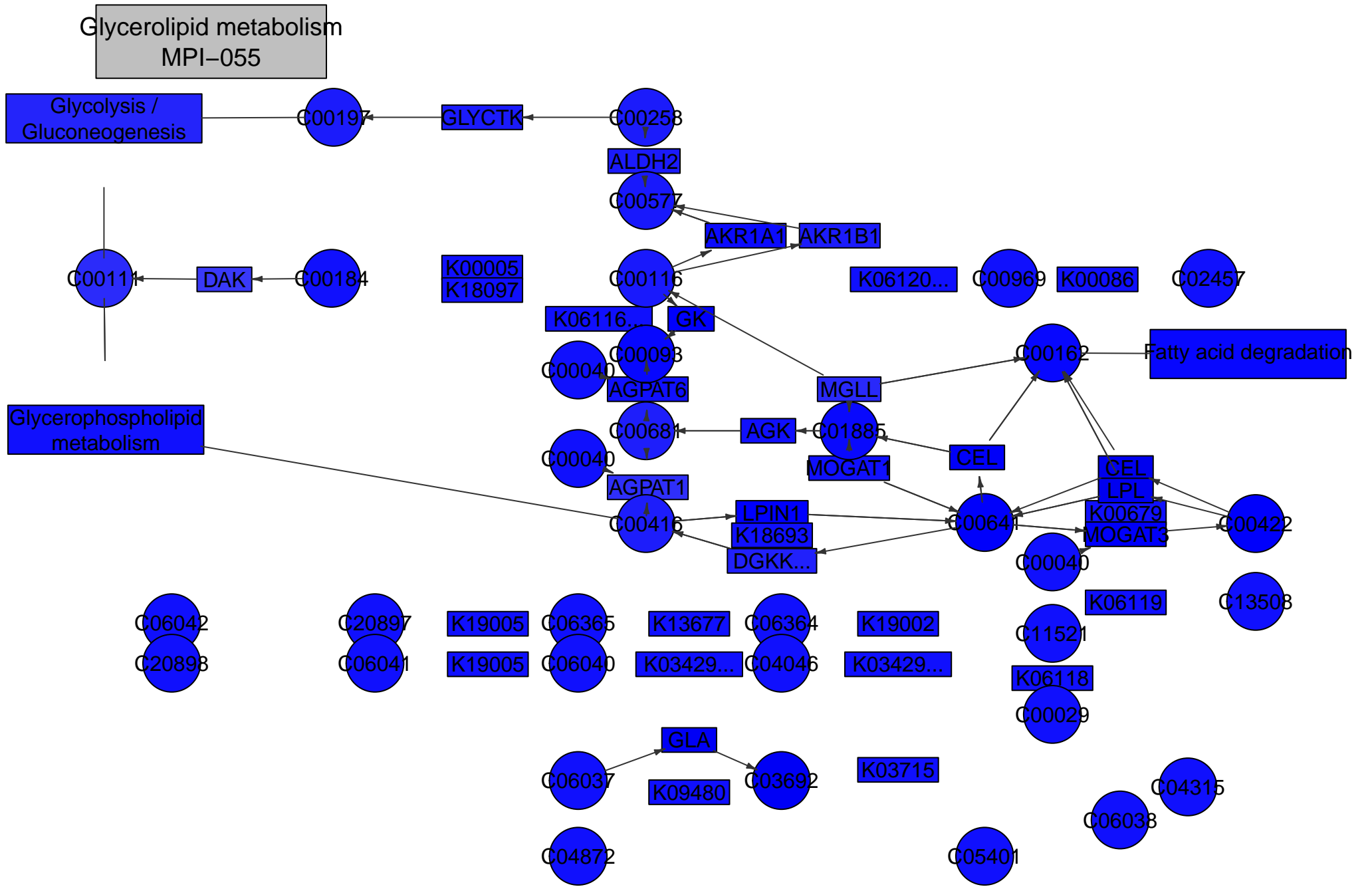
C06038

C04315



Glycerolipid metabolism
MPI-044





Glycerolipid metabolism
MPI-065

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

C11521

K06118

K06119

C00029

C13508

C06037

C04872

GLA

K09480

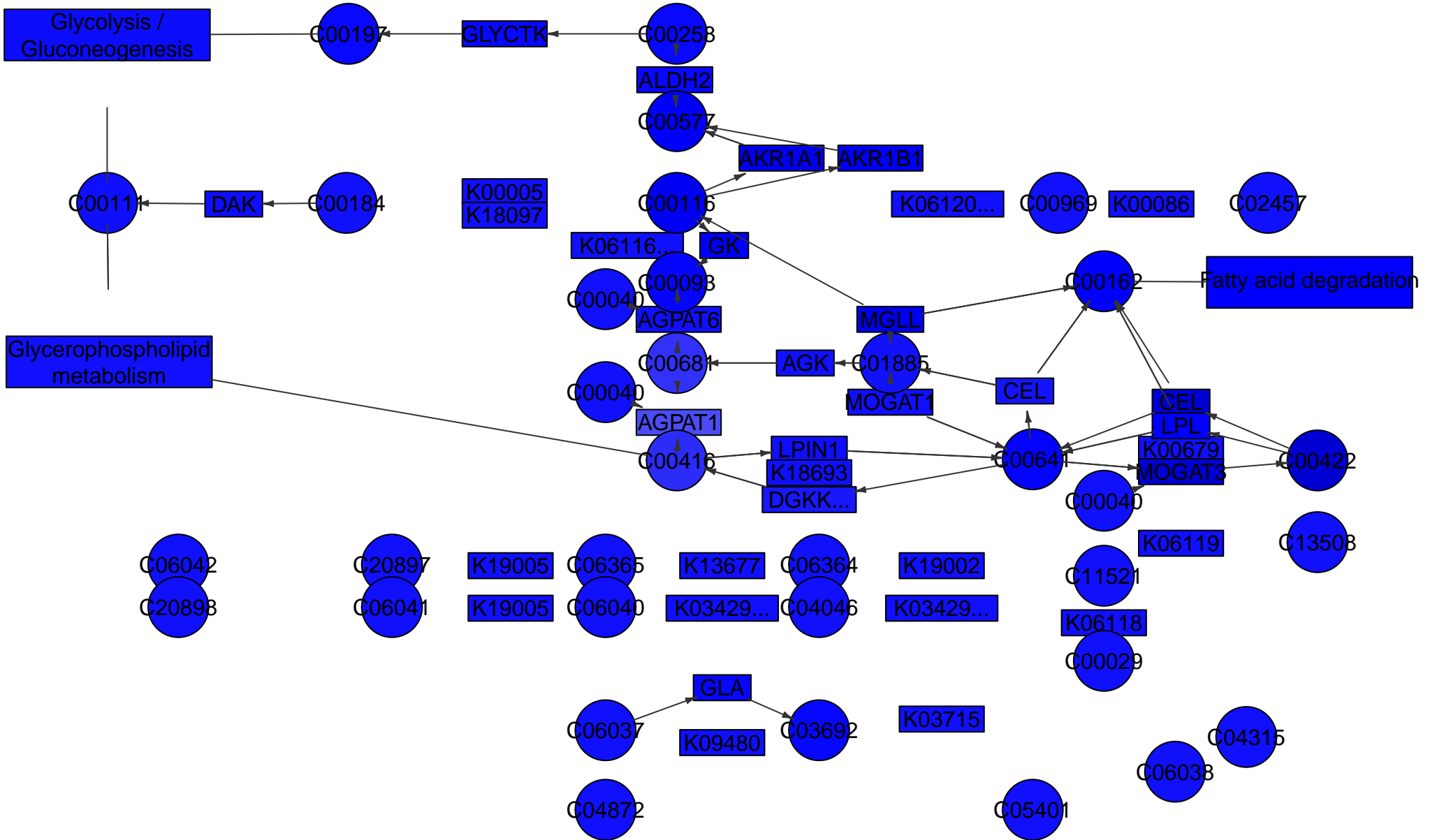
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-071

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C00040
C06038

C13508

C06037
C04872

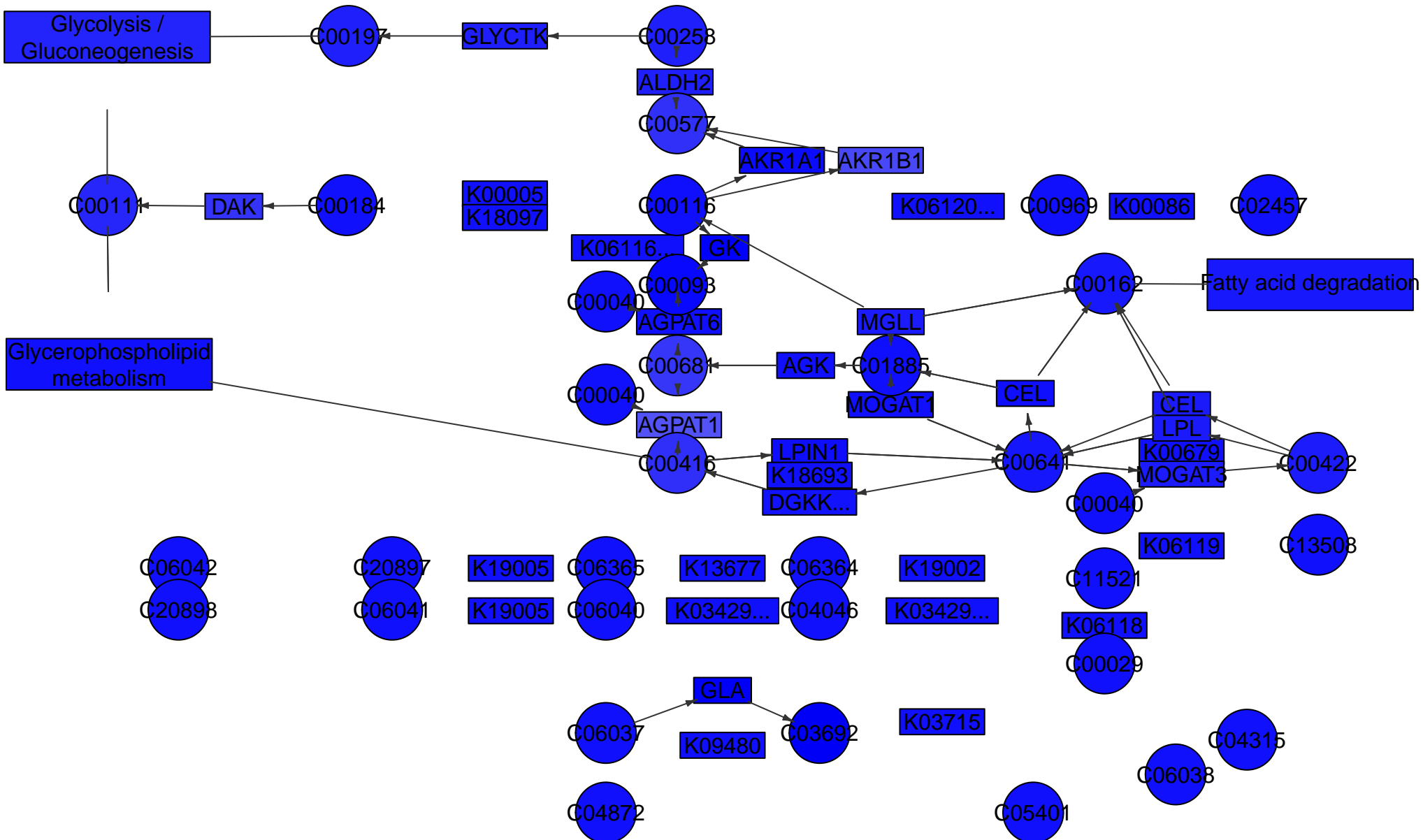
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-075

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

K06119

K06118

C13508

C06037

C04872

GLA

K09480

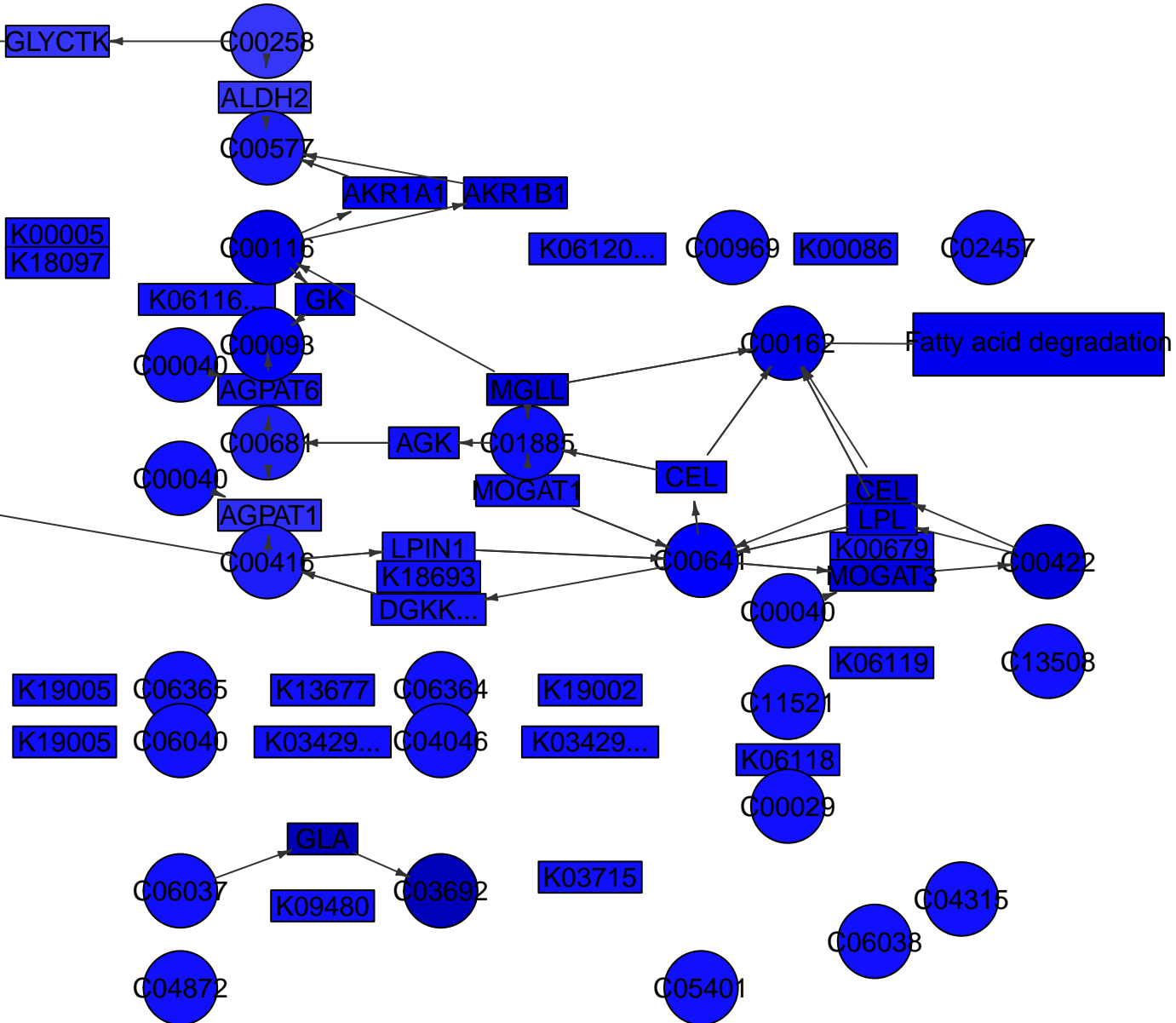
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-077

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119
K06118
C06038

C13508

C06037
C04872

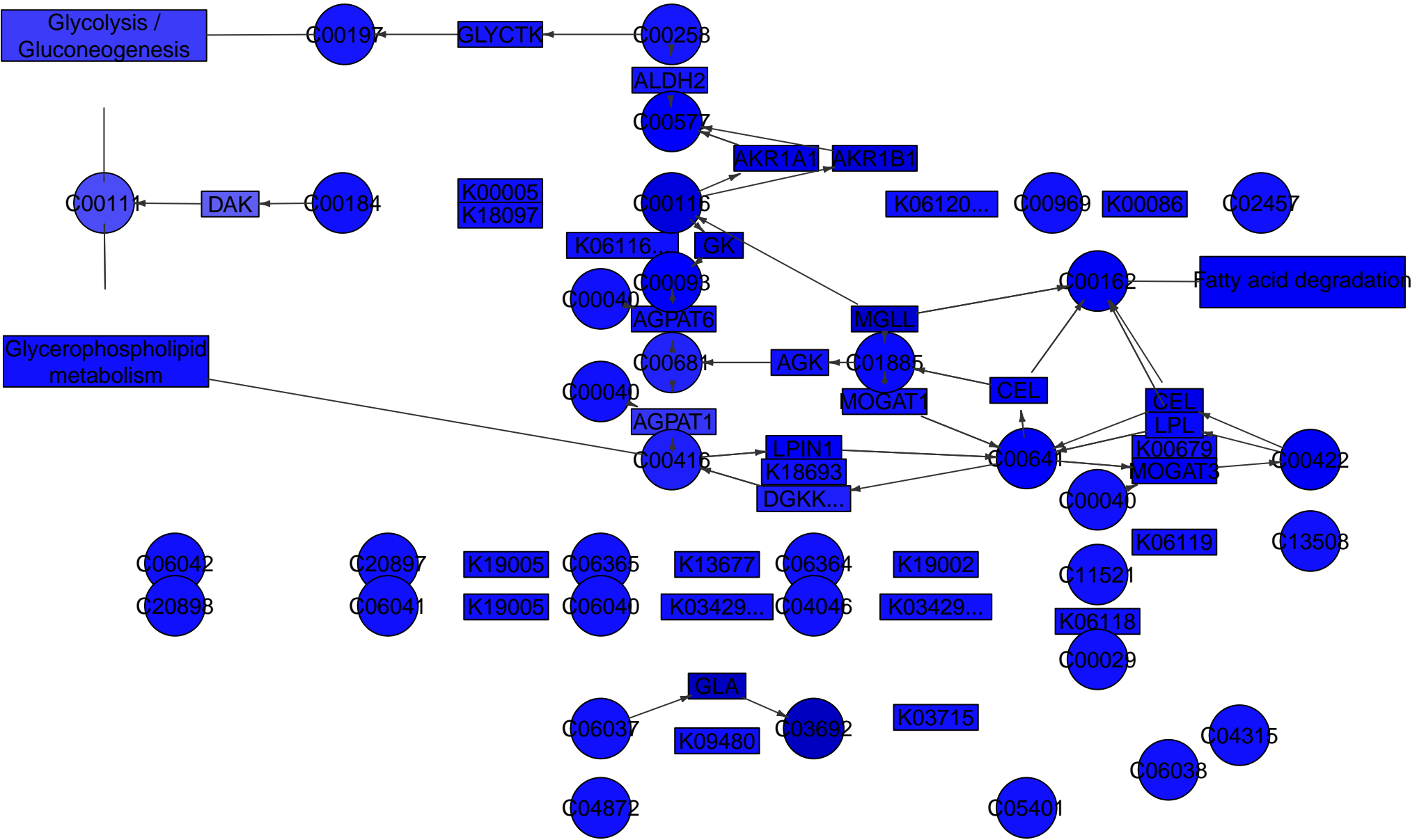
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-078

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

C06037

C04872

GLA

K09480

C03692

K03715

C05401

C06038

C04315

C13508

C11521

K06118

C00029

K06119

K00679

C00040

C00422

C00422

C00040

C00040

C00416

C06042

C20898

C00258

ALDH2

C00577

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00577

AKR1A1

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

AKR1B1

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

K06120...

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00969

C00162

C01885

C00641

C11521

K06118

C00029

C05401

K00086

C00162

C01885

C00641

C11521

K06118

C00029

C05401

C02457

C00162

C01885

C00641

C13508

C00422

C00422

C04315

C06038

K00005
K18097

K06116...

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00098

C00681

C00416

C06365

C06040

C06037

C04872

GK

C00098

C00681

C00416

C06365

C06040

C06037

C04872

AKR1A1

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

AKR1B1

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

AKR1A1

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00577

AKR1A1

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00258

ALDH2

C00577

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00258

C00577

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00258

ALDH2

C00577

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00258

ALDH2

C00577

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00258

ALDH2

C00577

C00115

C00098

C00681

C00416

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C06040

C06037

C04872

C00258

ALDH2

C00577

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00258

ALDH2

C00577

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00258

ALDH2

C00577

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00258

ALDH2

C00577

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00258

ALDH2

C00577

C00115

C00098

C00681

C00416

C06365

C06040

C06037

C04872

C00258

ALDH2

C00577

C00115

C00098

C00681

C00416

C06365

C06040

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C00115

C00098

C00681

C00416

C06365

C06040

C06037

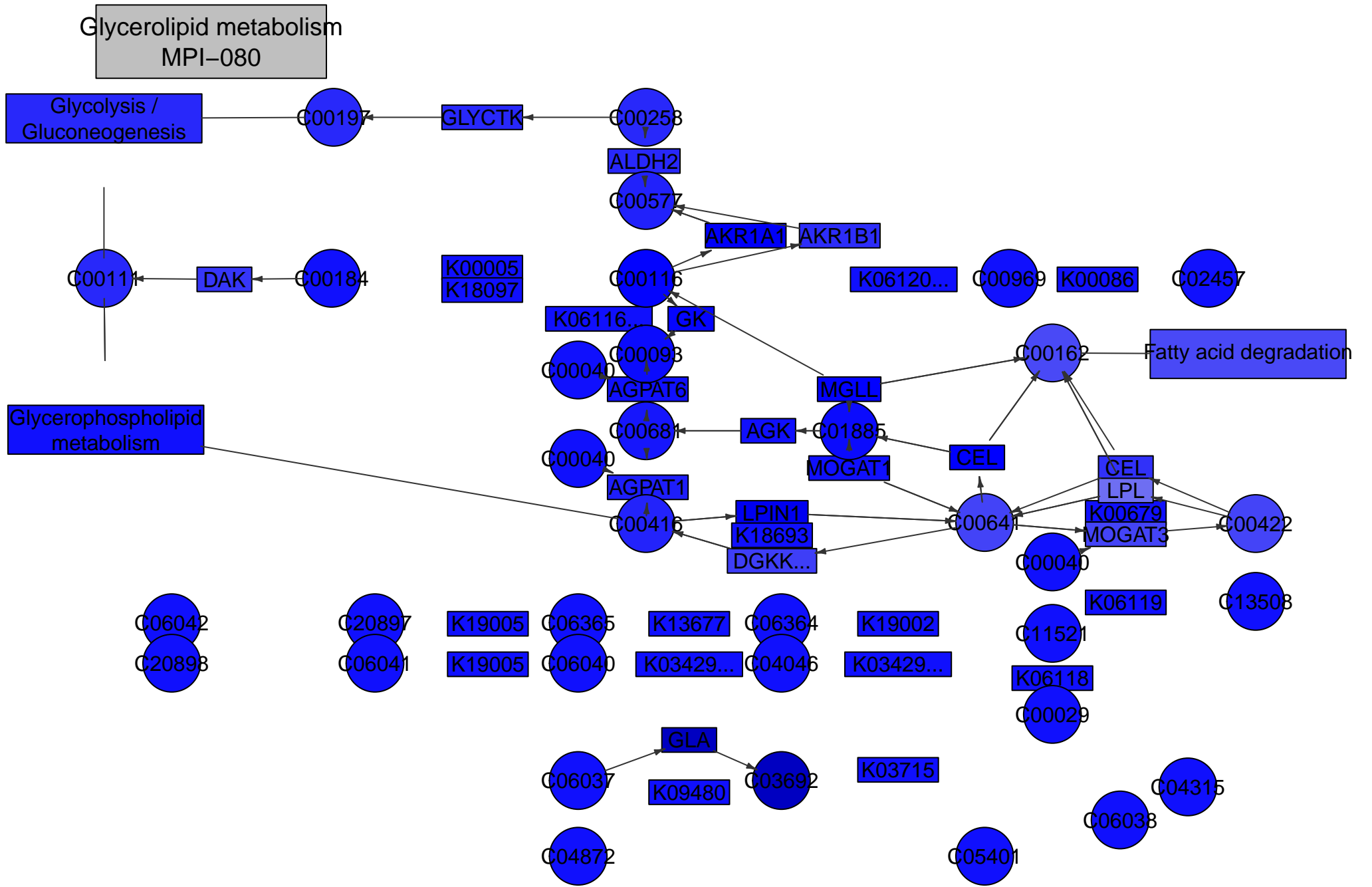
C04872

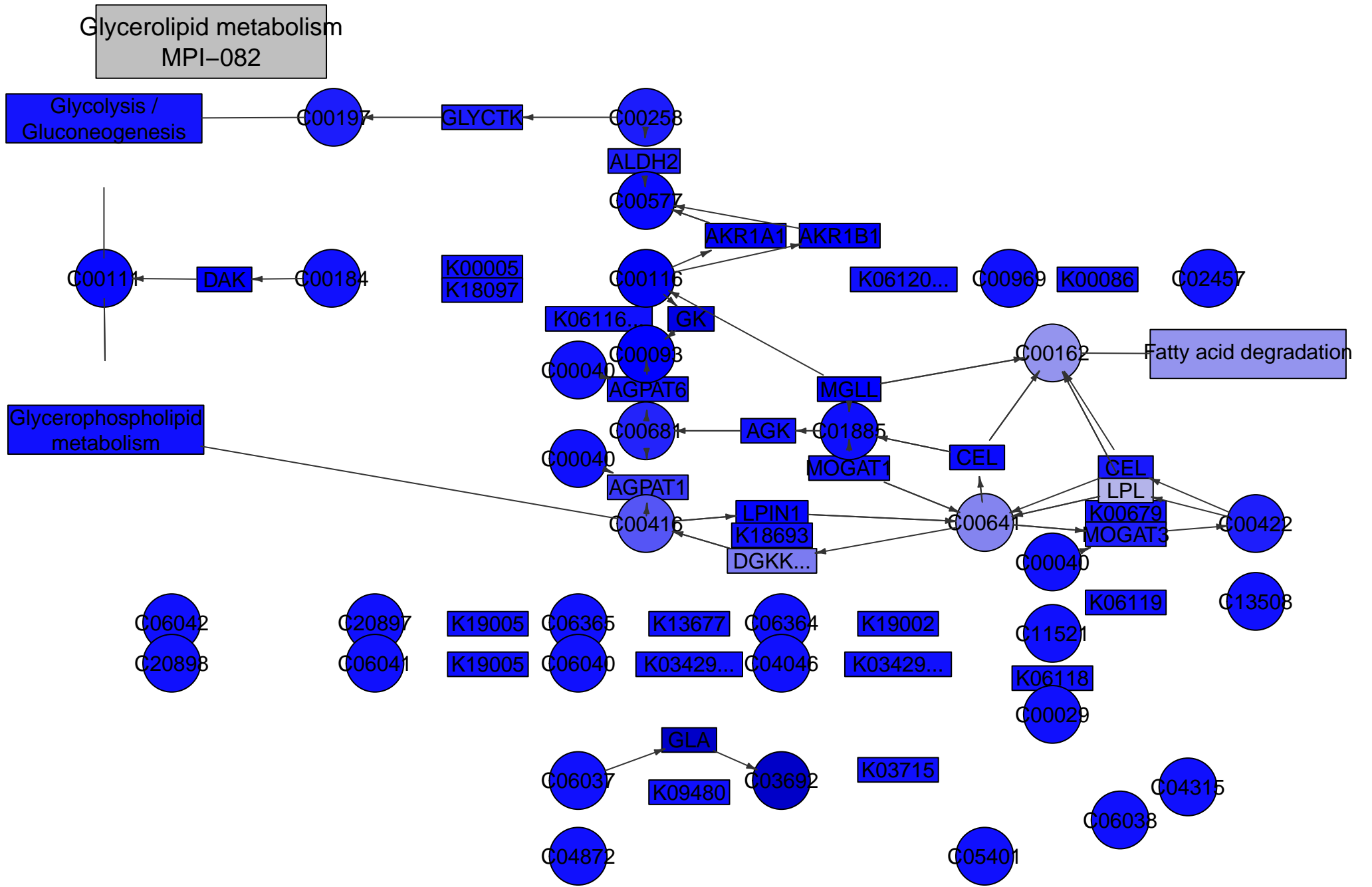
C00258

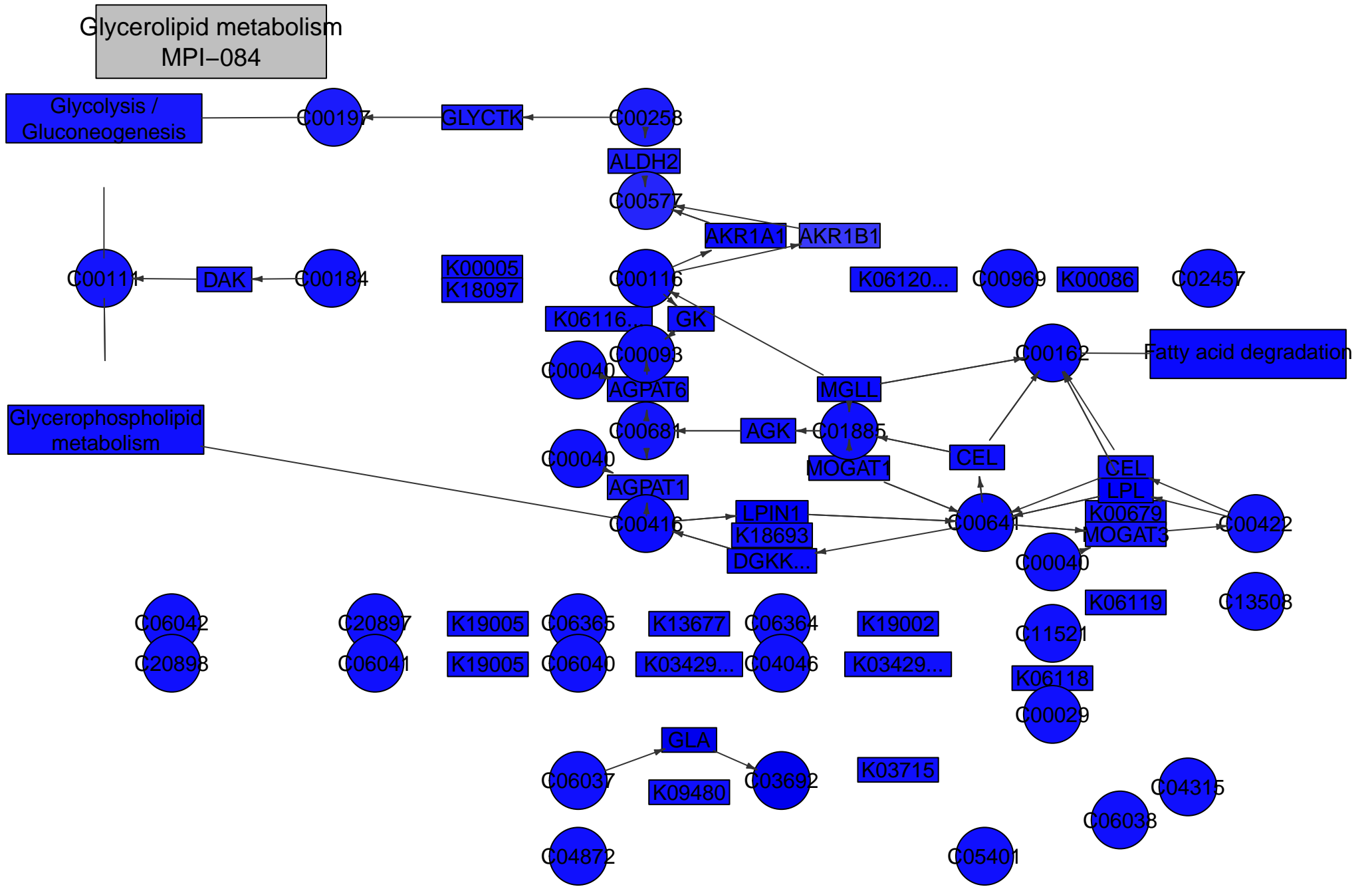
ALDH2

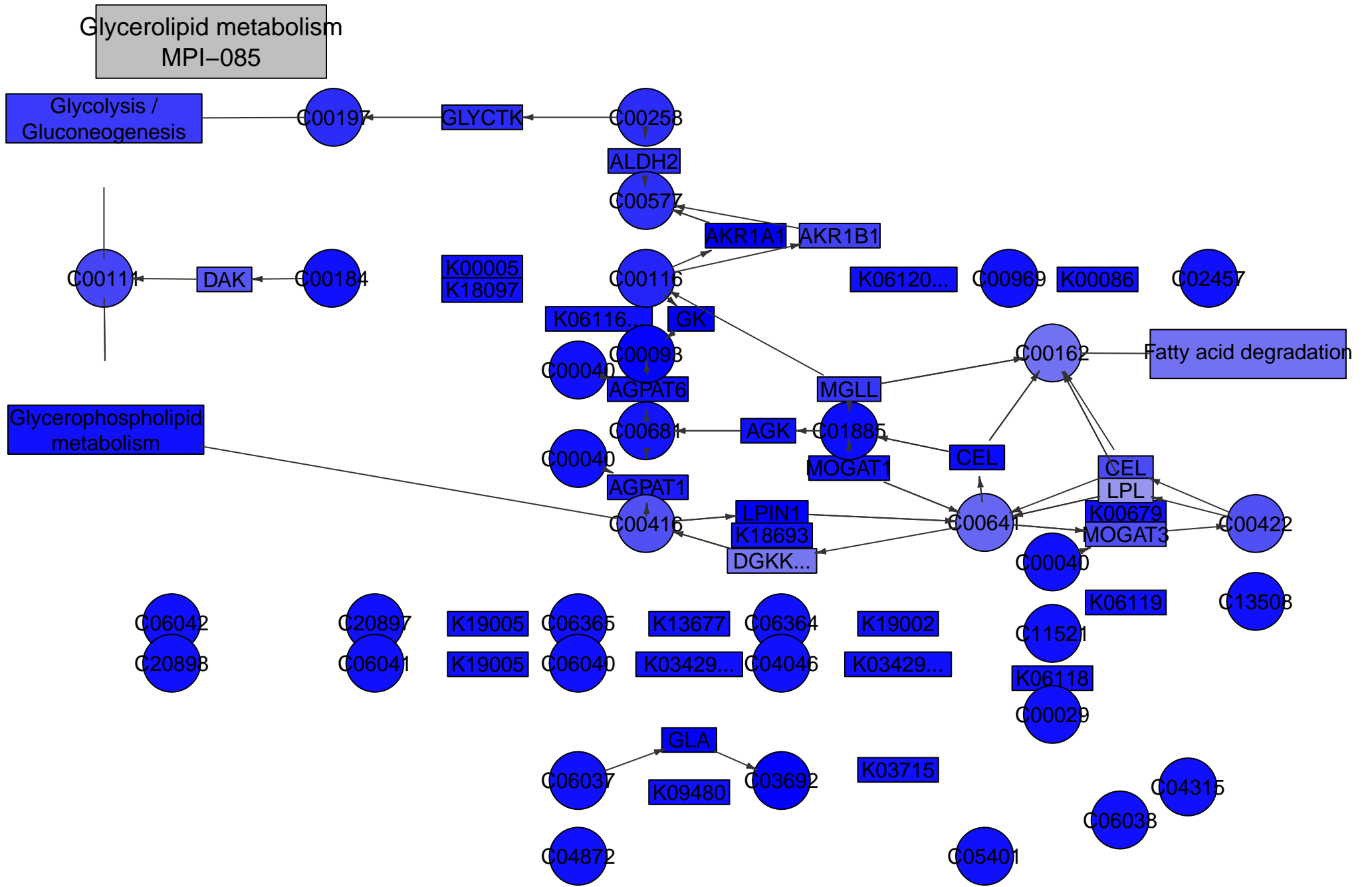
C00577

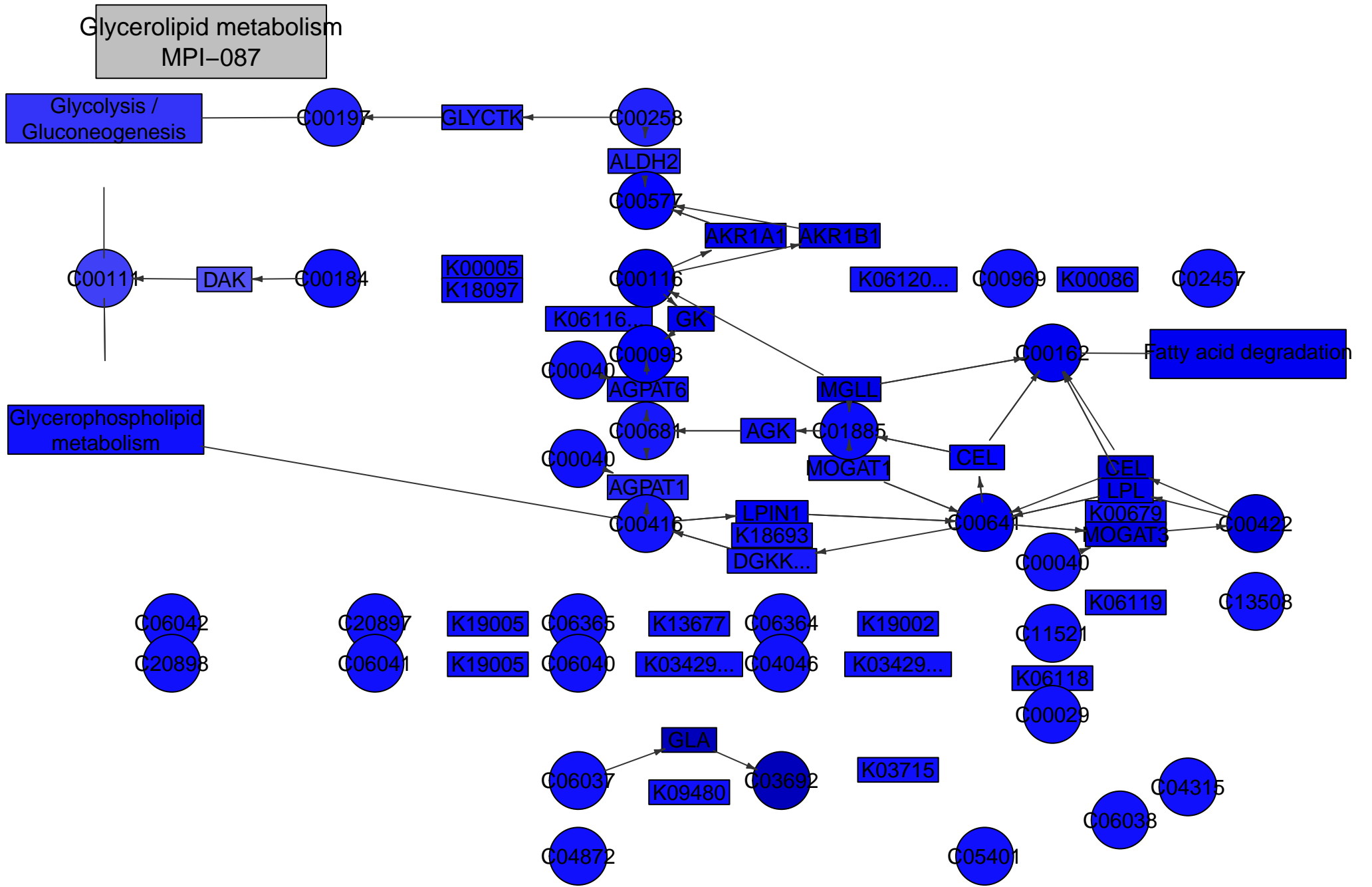
C00115</











Glycerolipid metabolism
MPI-114

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118

K06119
C00029

C13508

C06037
C04872

GLA
K09480

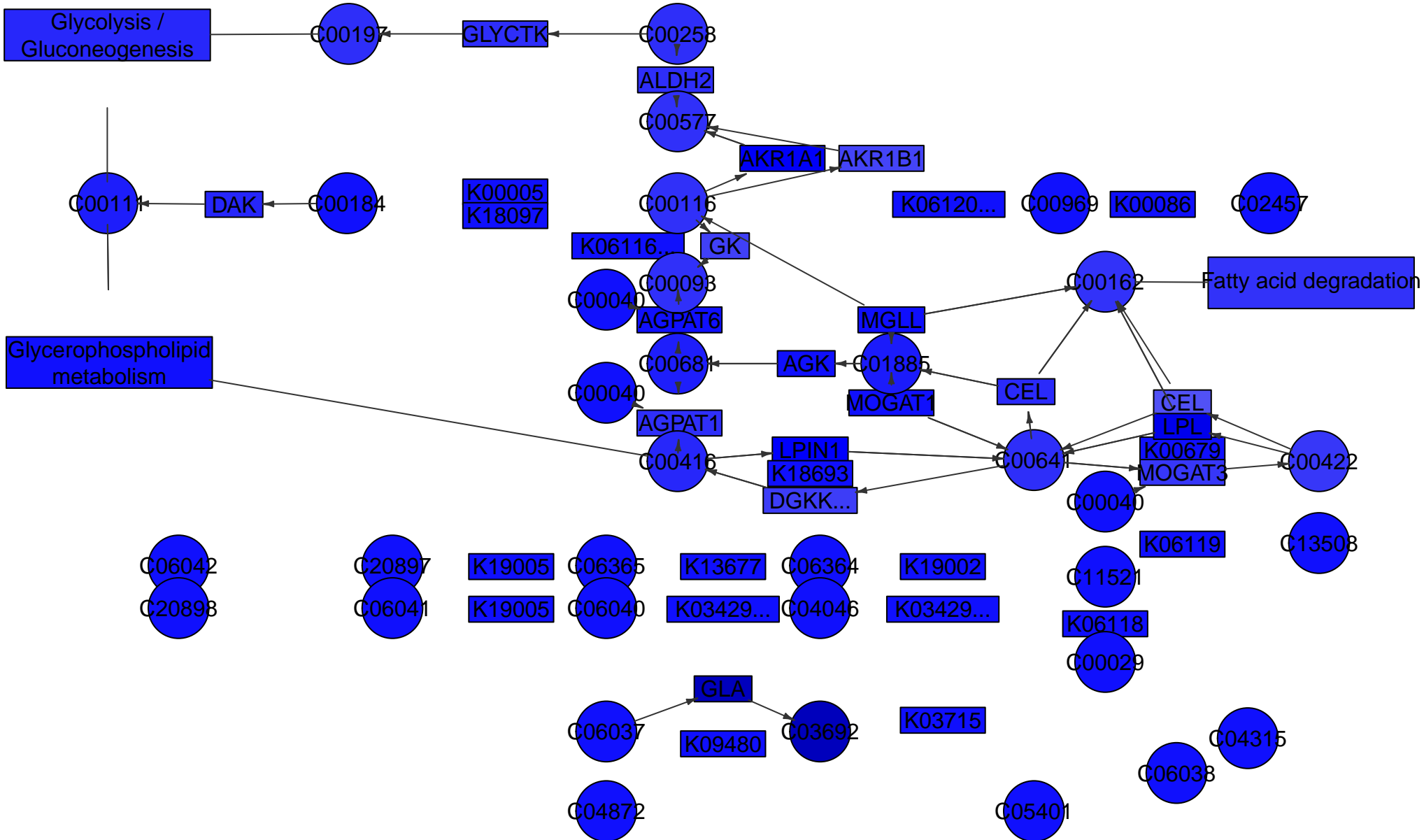
C03692

K03715

C05401

C06038

C04315

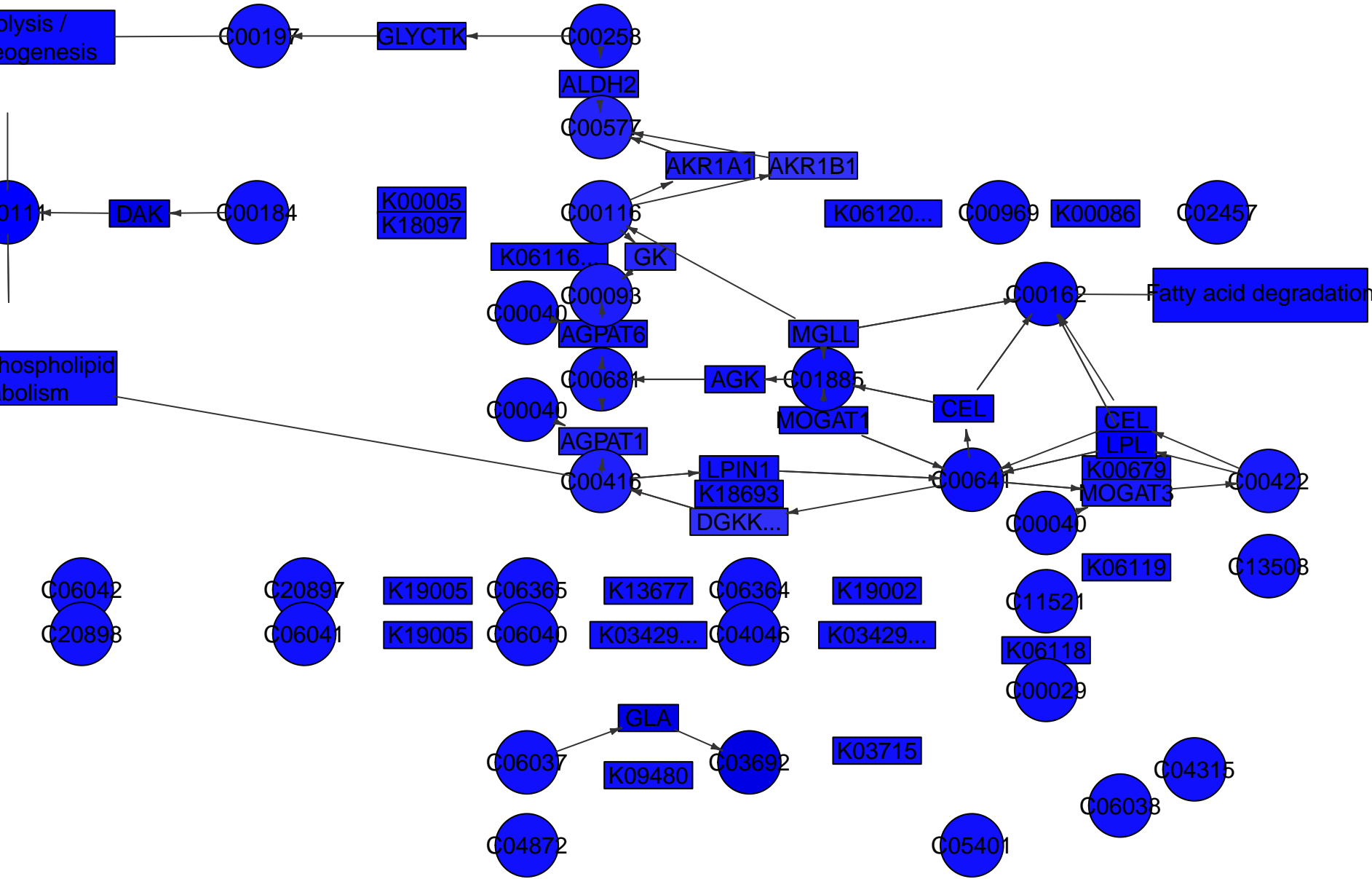


Glycerolipid metabolism
MPI-123

Glycolysis /
Gluconeogenesis

C00111

Glycerophospholipid
metabolism



Glycerolipid metabolism
MPI-139

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C00040
C11521
C00029

K06119

C13508

C06037
C04872

GLA
K09480

C03692

K03715

C05401

C06038

C04315

C00197

GLYCTK

C00258

ALDH2

C00577

AKR1A1

AKR1B1

C00116

K06120...

C00969

K00086

C02457

C00040
C00098

AGPAT6

GK

MGLL

C00162

Fatty acid degradation

C00040
C00681

AGPAT1

AGK

C01885
MOGAT1

CEL

CEL

LPL

Glycerophospholipid
metabolism

C00416

LPIN1
K18693
DGKK...

C00641

K00679
MOGAT3

C00422

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C00040
C11521
C00029

K06119

C13508

C06037
C04872

GLA
K09480

C03692

K03715

C05401

C06038

C04315

Glycerolipid metabolism
MPI-140

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

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C06037
C04872

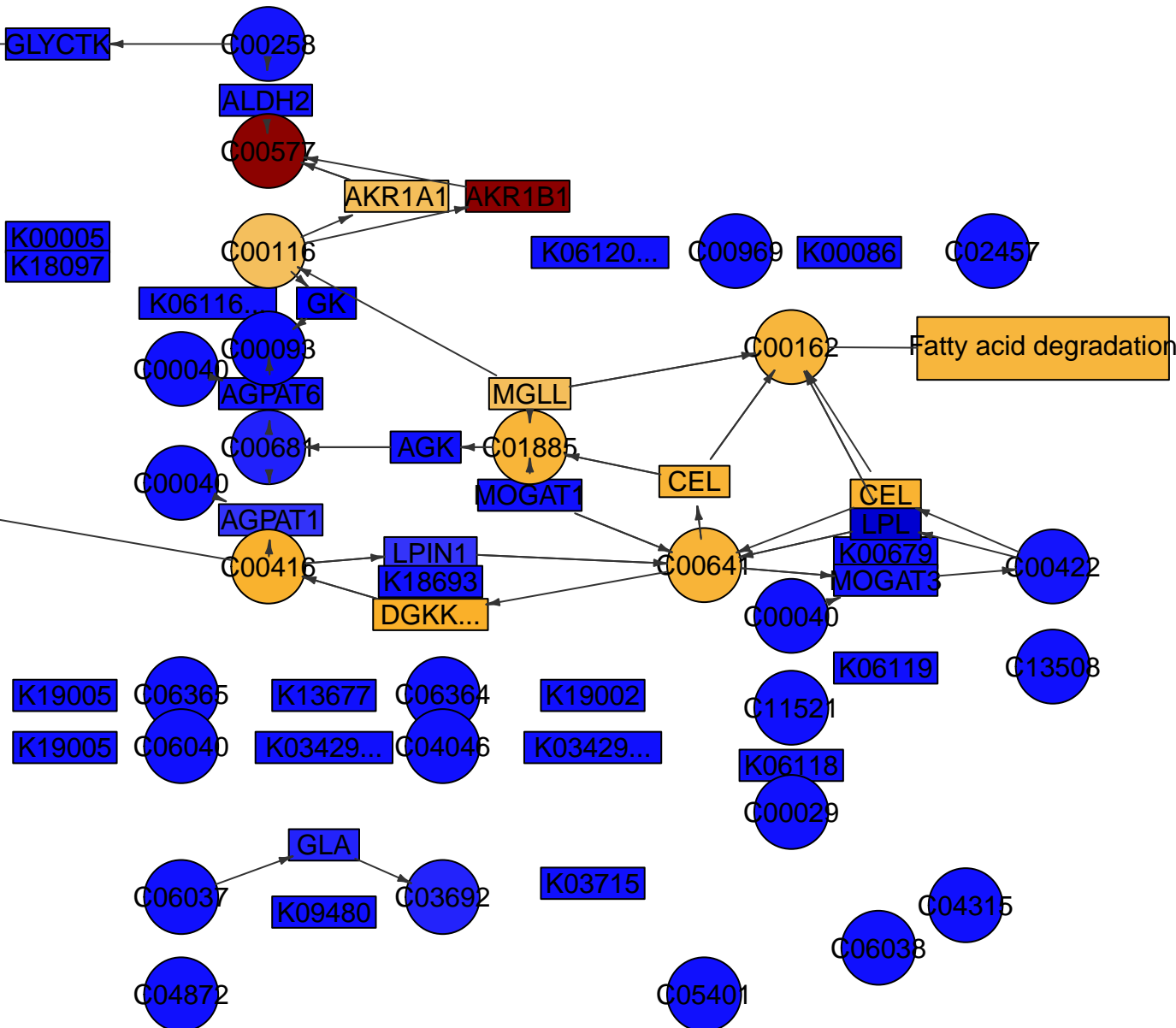
GLA
K09480

C03692

K03715

C05401

C06038
C04315



Glycerolipid metabolism
MPI-144

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
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K03429...

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C04315

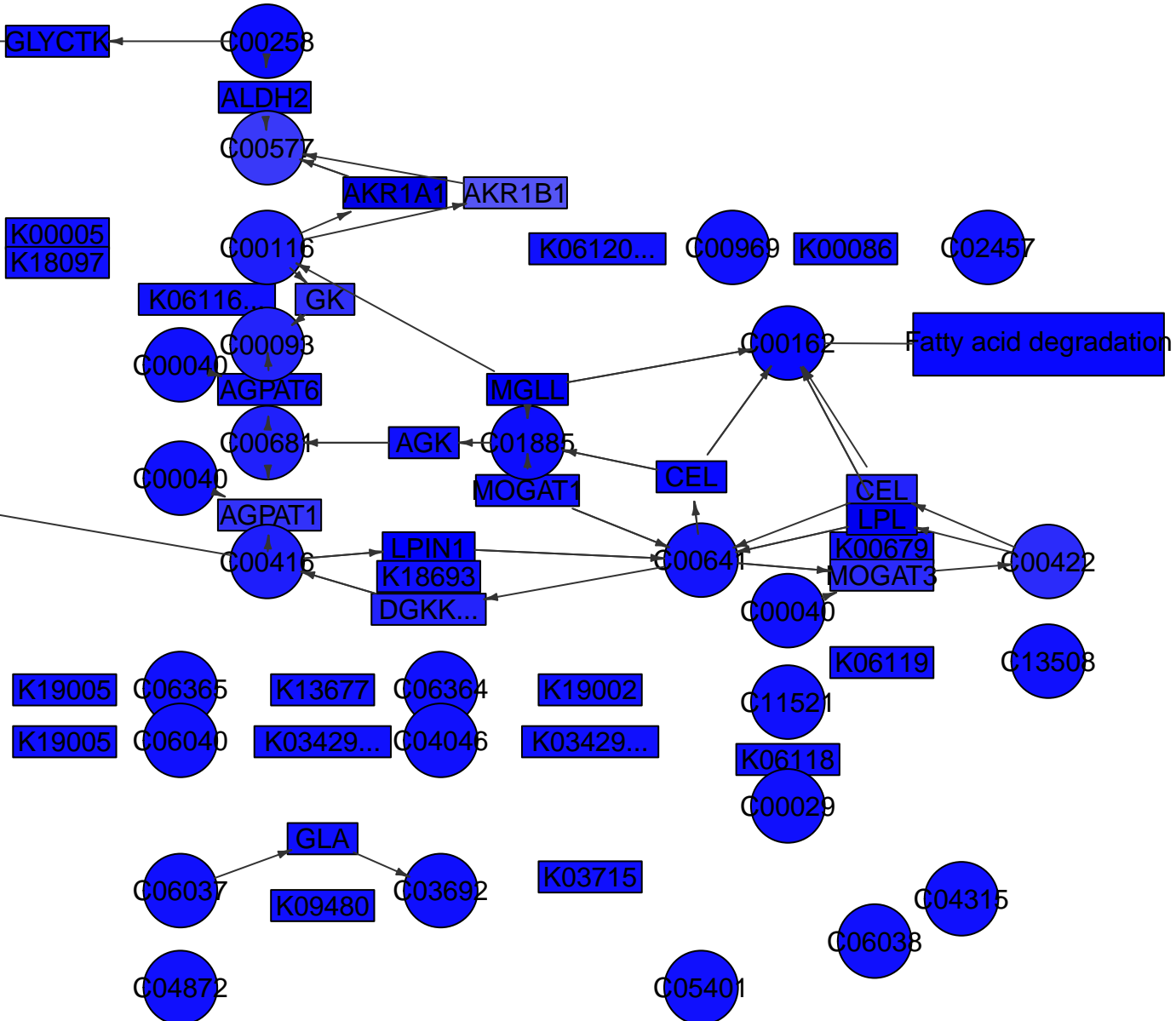
C06037
C04872

GLA
K09480

C03692

K03715

C05401



Glycerolipid metabolism
MPI-147

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

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K06119
K06118

C13508

C06037
C04872

GLA
K09480

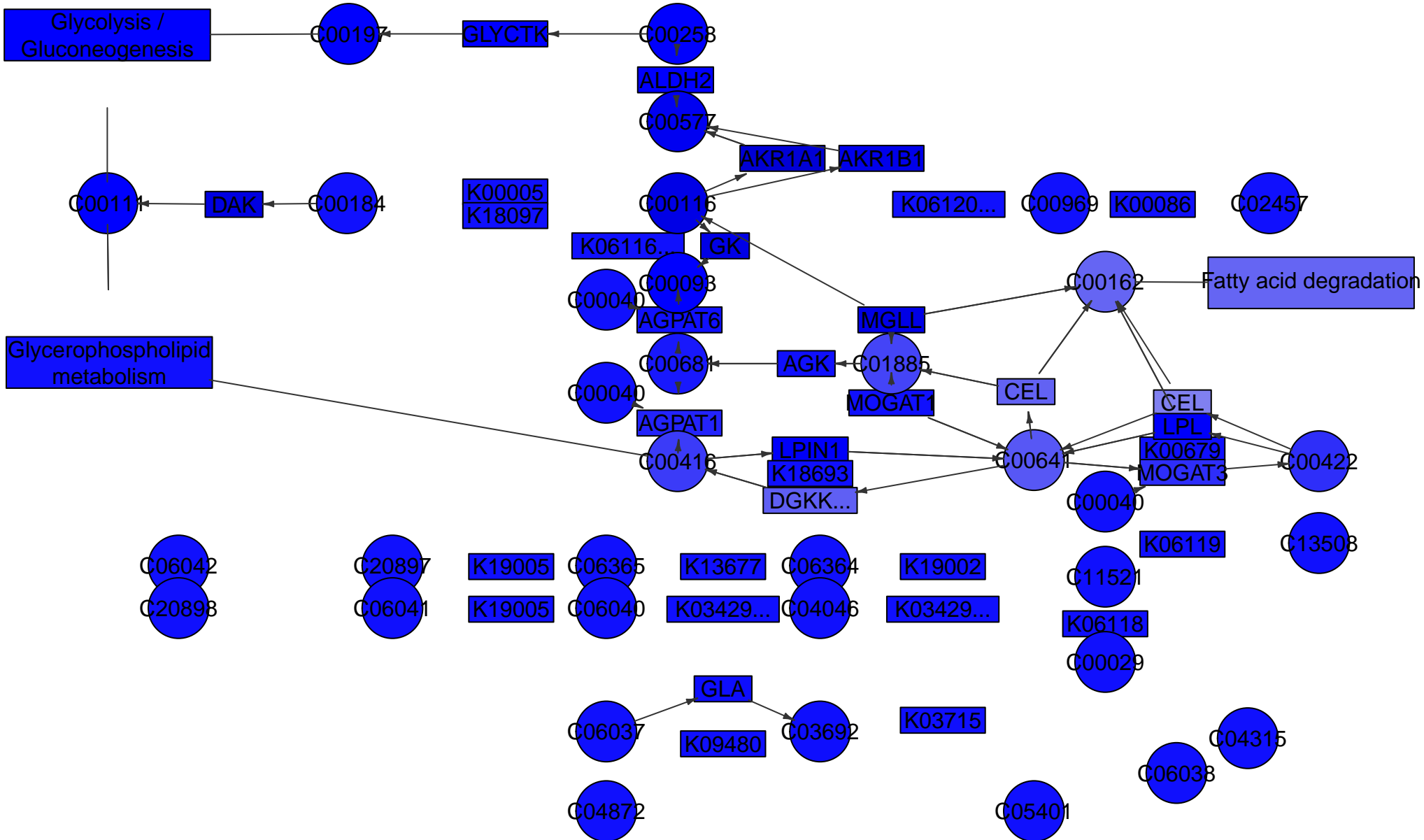
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-171

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
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K19002
K03429...

C11521
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K06119
K06118
C06038

C13508
C04315

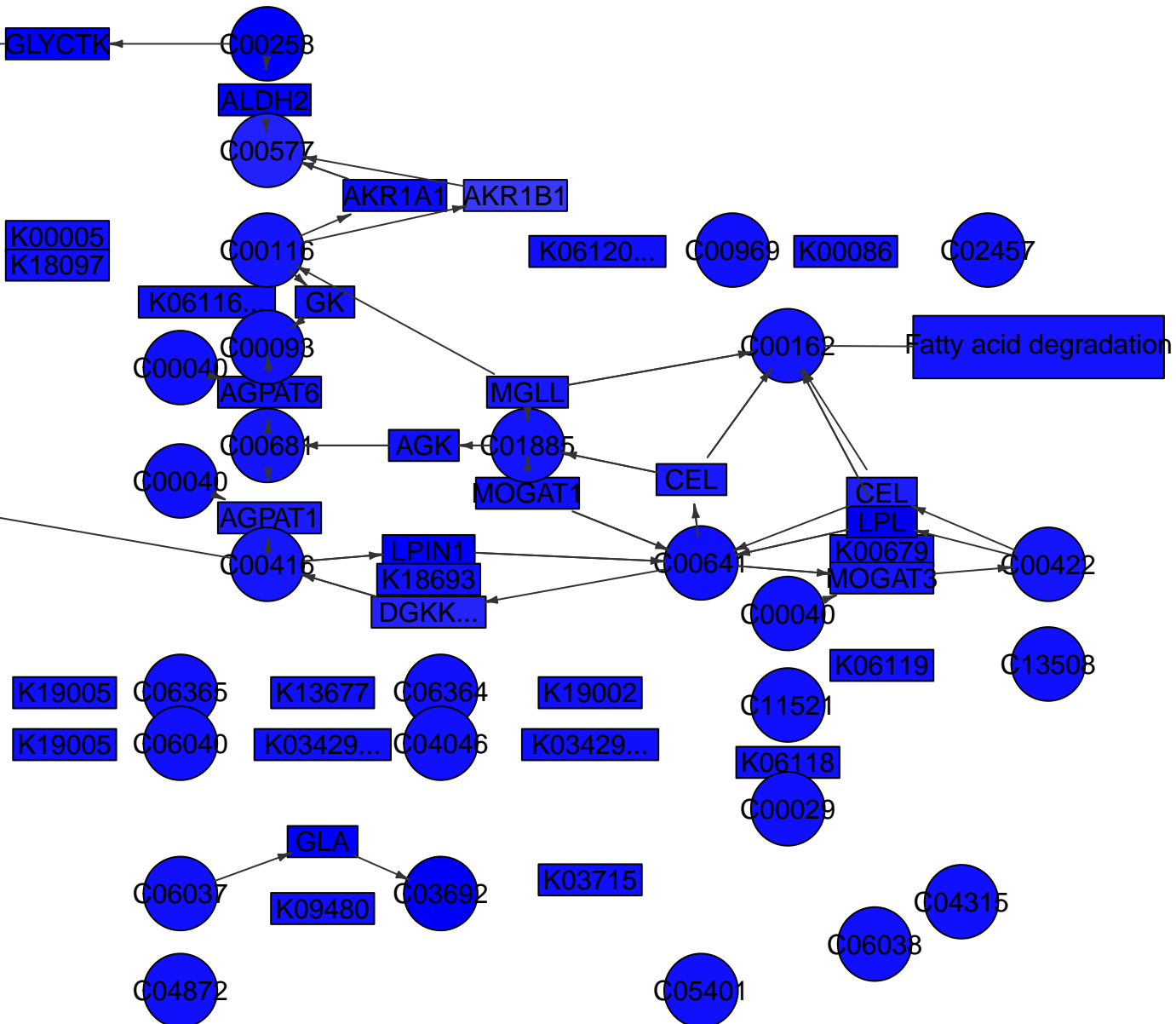
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GLA
K09480

C03692

K03715

C05401



Glycerolipid metabolism
MPI-007

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

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K03429...

C11521
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K06119
C00040
C06038

C13508

C06037
C04872

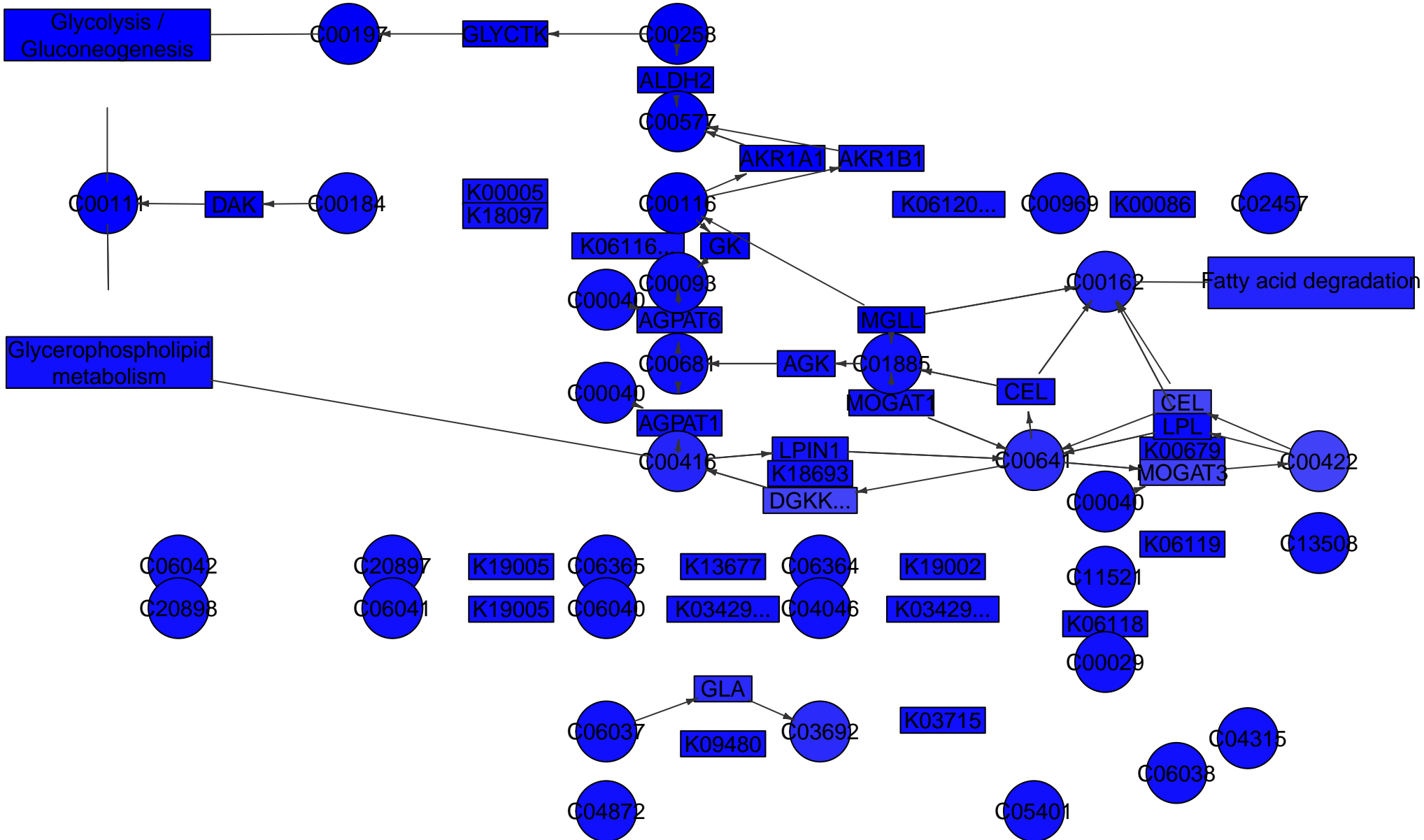
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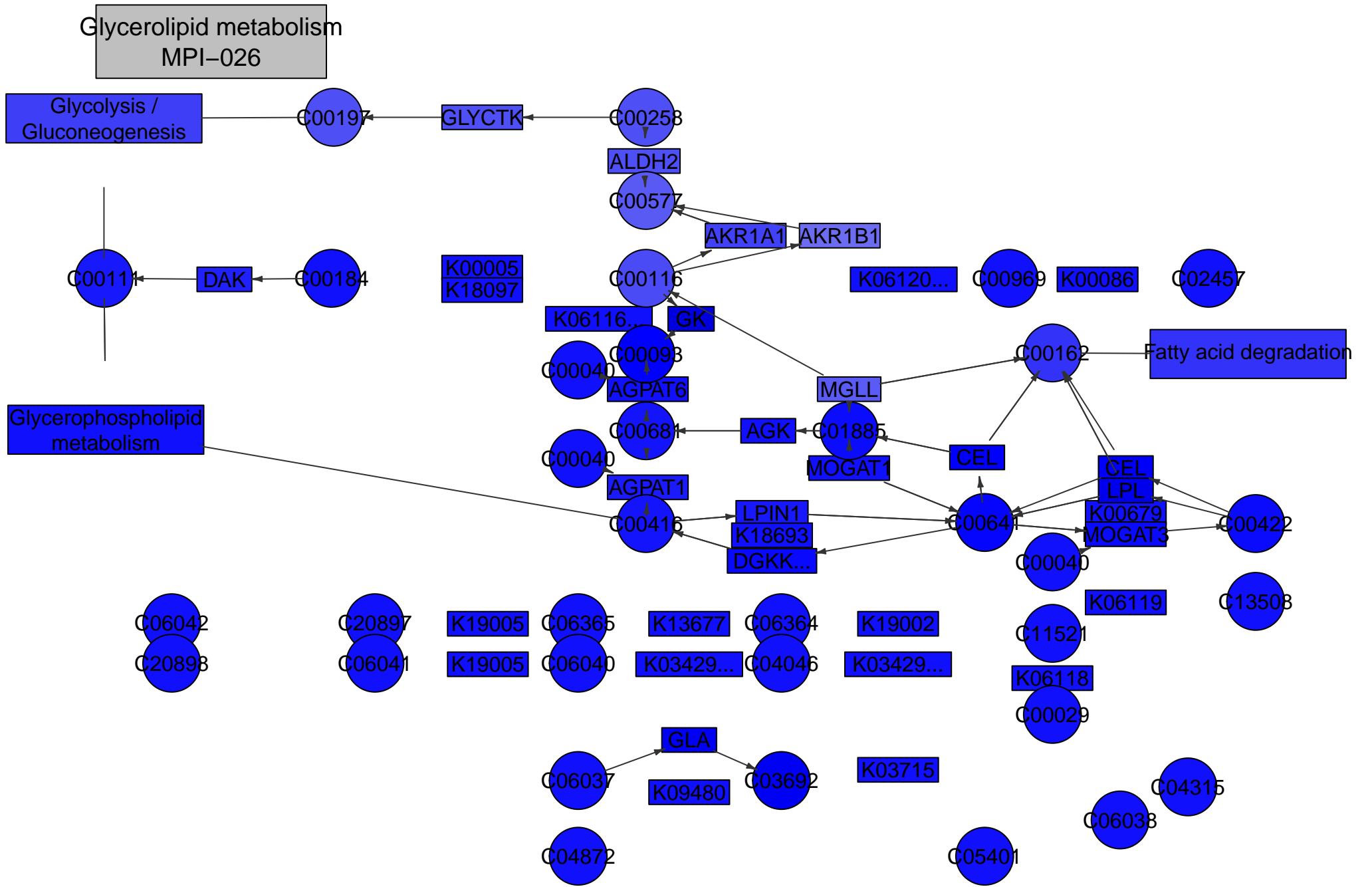
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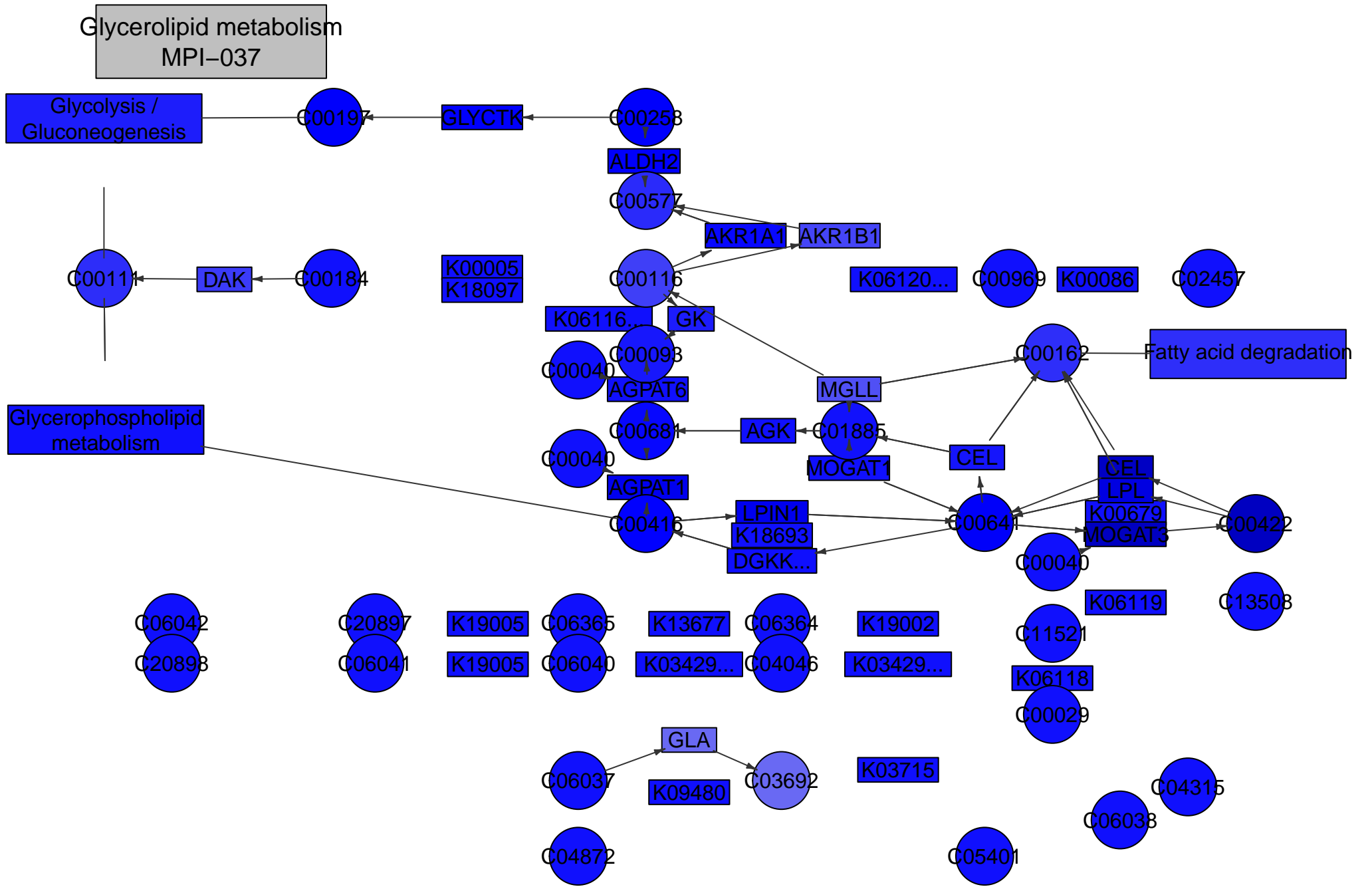
K03715

C05401

C04315







Glycerolipid metabolism
MPI-038

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

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K03429...

C11521
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K06119
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C13508

C06037
C04872

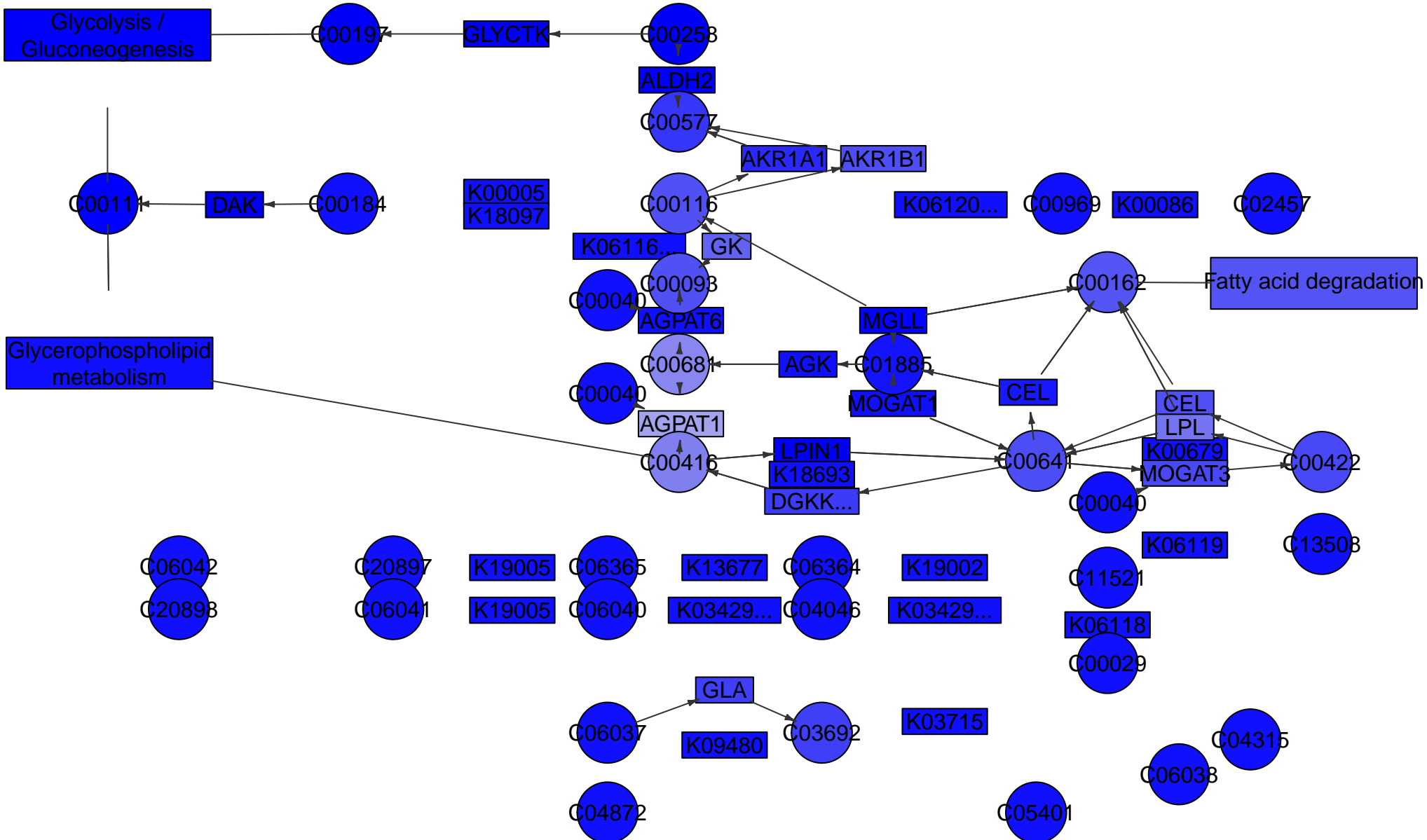
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-041

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

ALDH2

C00577

AKR1A1

AKR1B1

C00116

K06120...

C00969

K00086

C02457

K06116...

GK

C00040

C00093

AGPAT6

MGLL

C00162

Fatty acid degradation

Glycerophospholipid
metabolism

C00040

C00681

C00040

AGPAT1

AGK

C01885

MOGAT1

CEL

CEL

LPL

C00416

LPIN1

K18693

DGKK...

C00641

K00679

MOGAT3

C00422

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

C11521

K06118

C00029

K06119

C13508

GLA

C06037

K09480

C03692

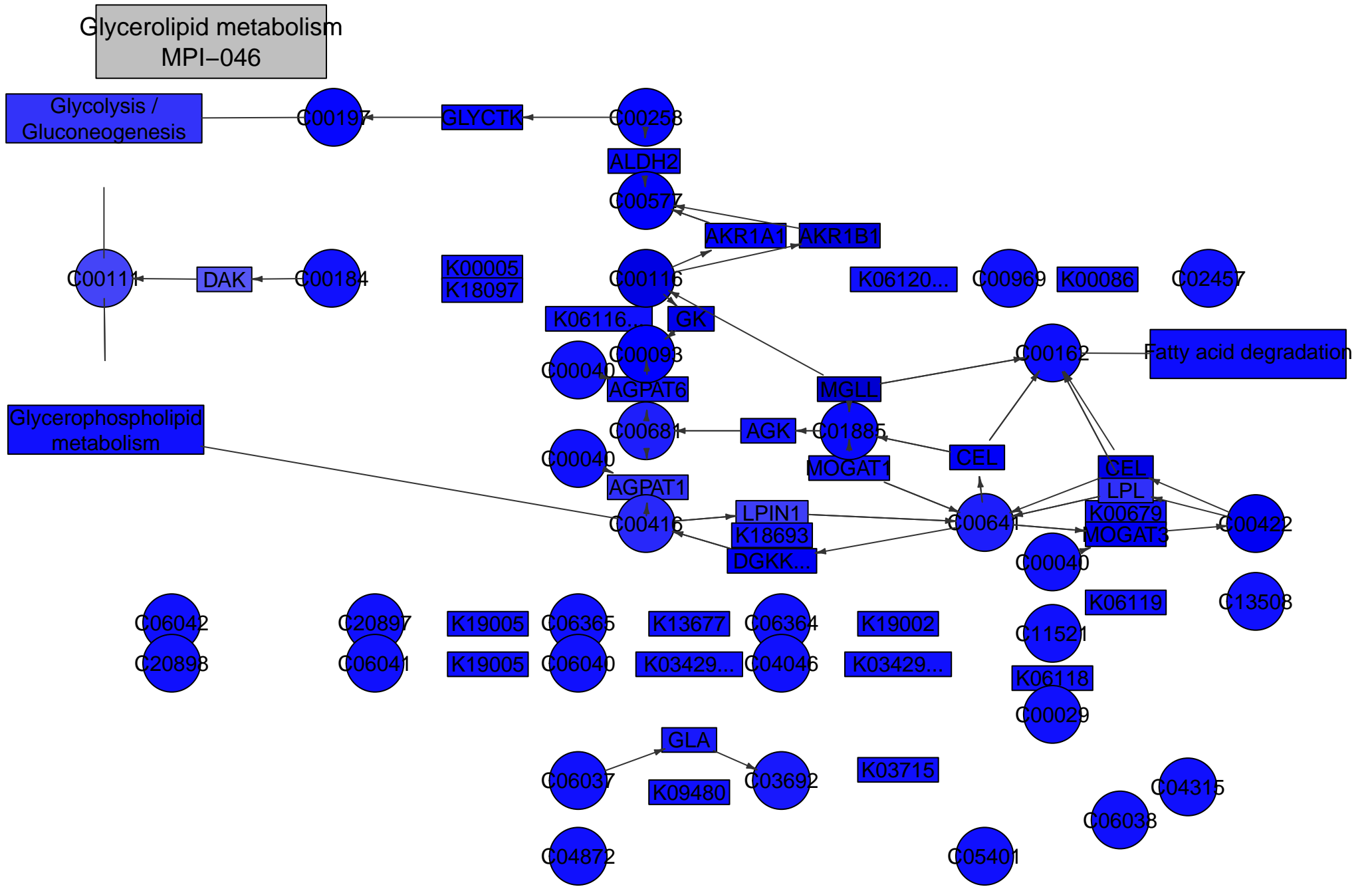
K03715

C04872

C05401

C06038

C04315



Glycerolipid metabolism
MPI-051

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

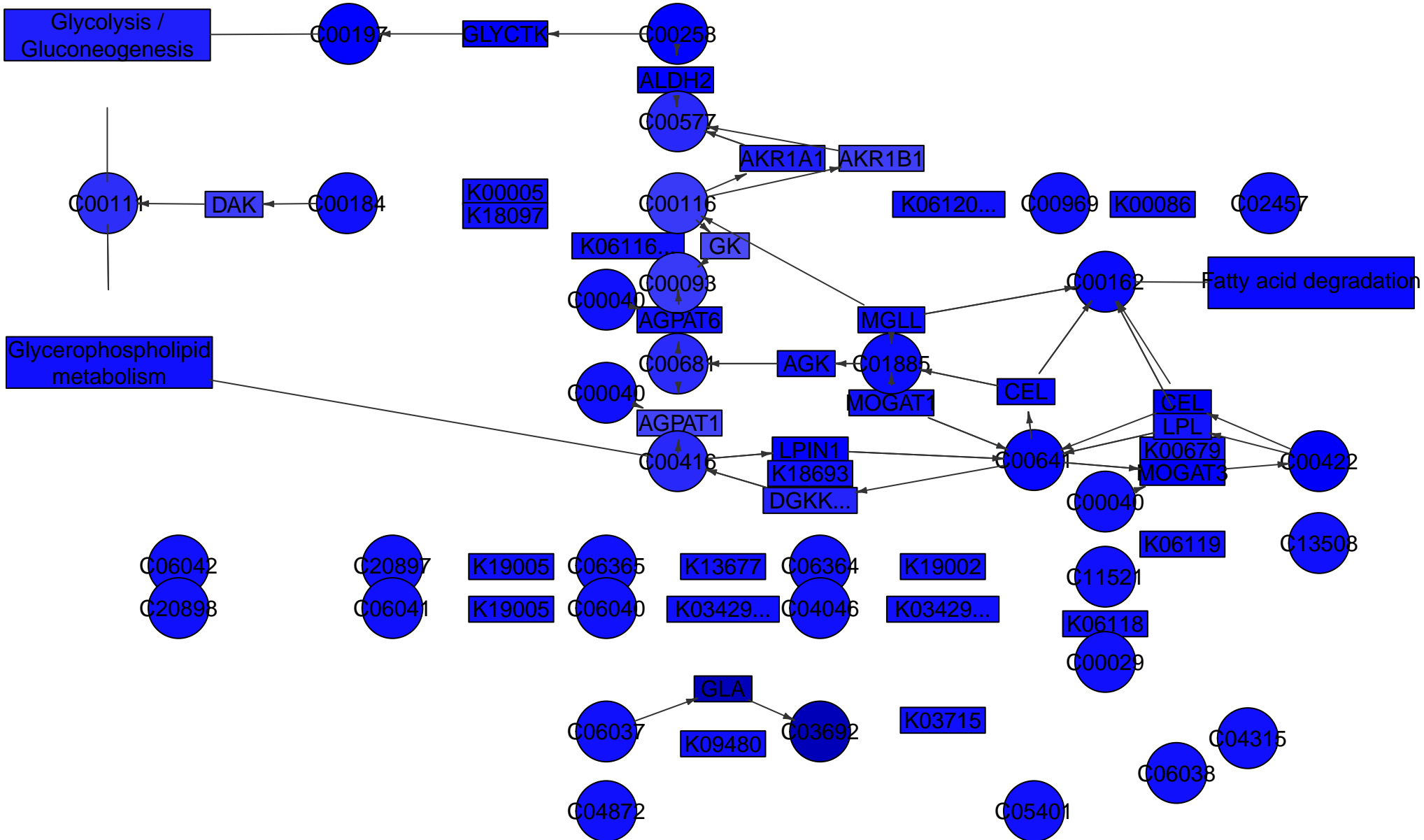
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-060

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

K06119

K06118

C13508

C06037

C04872

GLA

K09480

C03692

K03715

C05401

C06038

C04315

GLYCTK

C00258

ALDH2

C00577

AKR1A1

AKR1B1

C00116

K06120...

C00969

K00086

C02457

K06116...

GK

C00098

C00040

AGPAT6

MGLL

C00162

Fatty acid degradation

C00681

C00040

AGPAT1

AGK

C01885

MOGAT1

CEL

CEL

C00416

LPIN1

K18693

DGKK...

C00641

LPL

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MOGAT3

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C00040

C11521

C00029

C06037

C04872

GLA

K09480

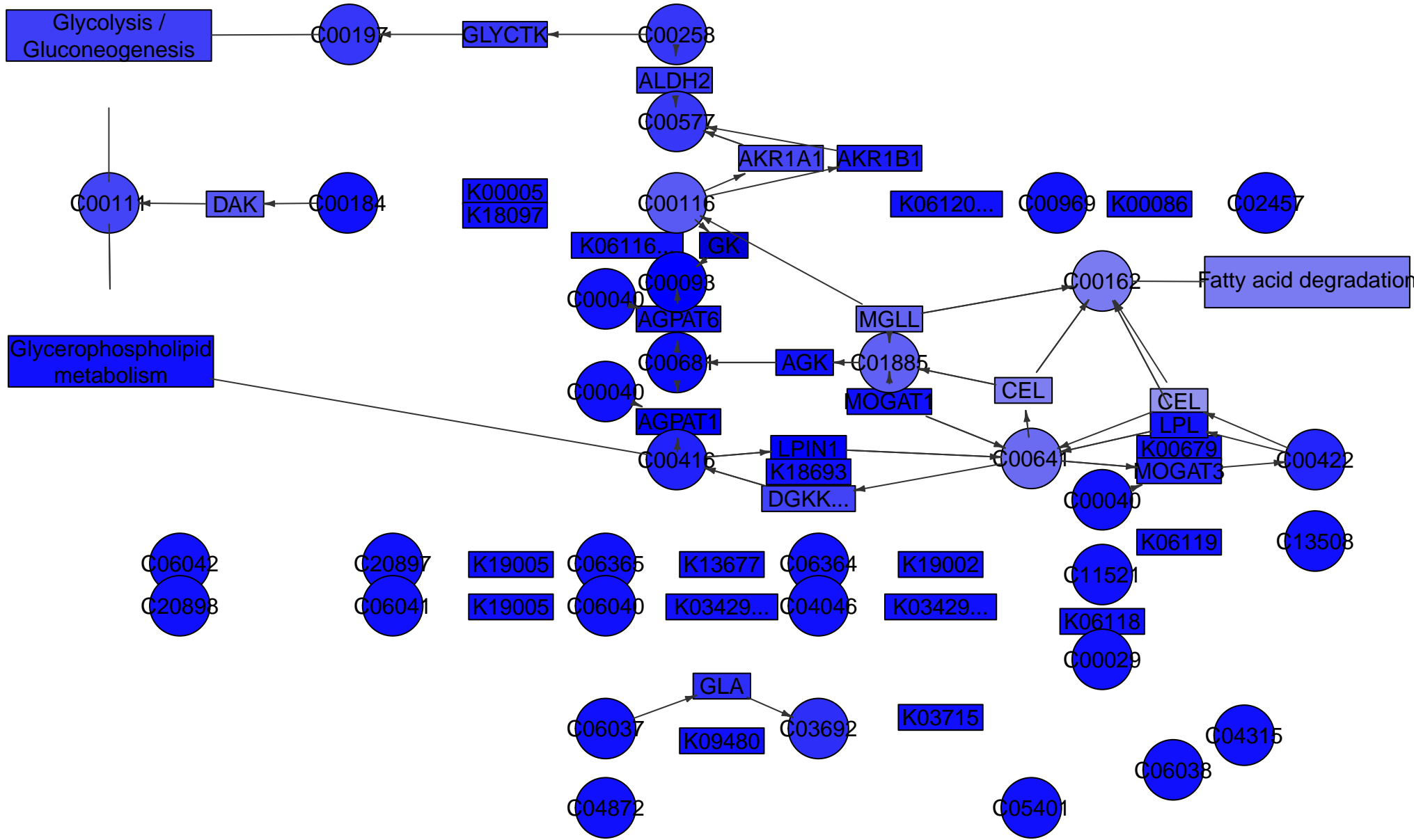
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K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-061

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
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C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

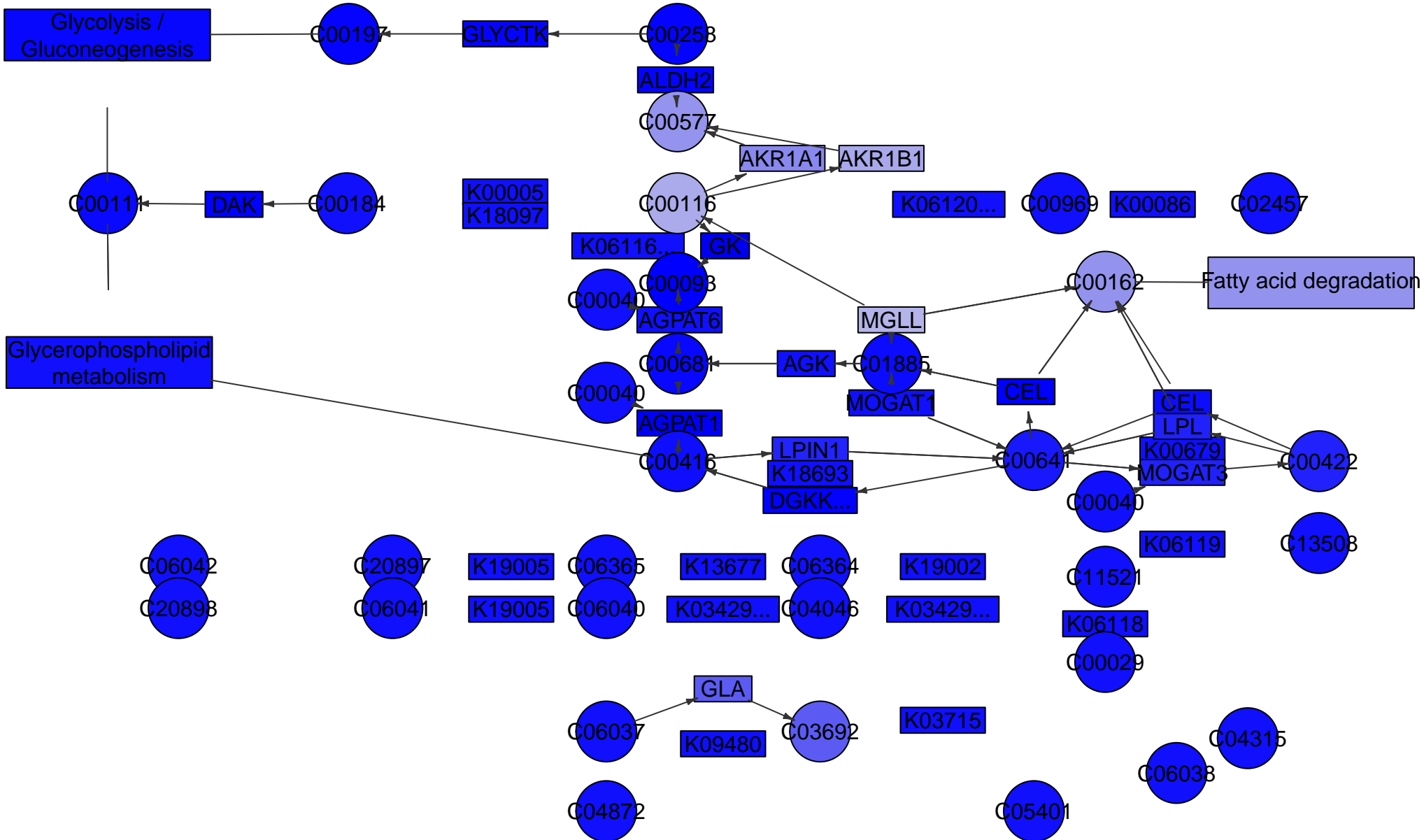
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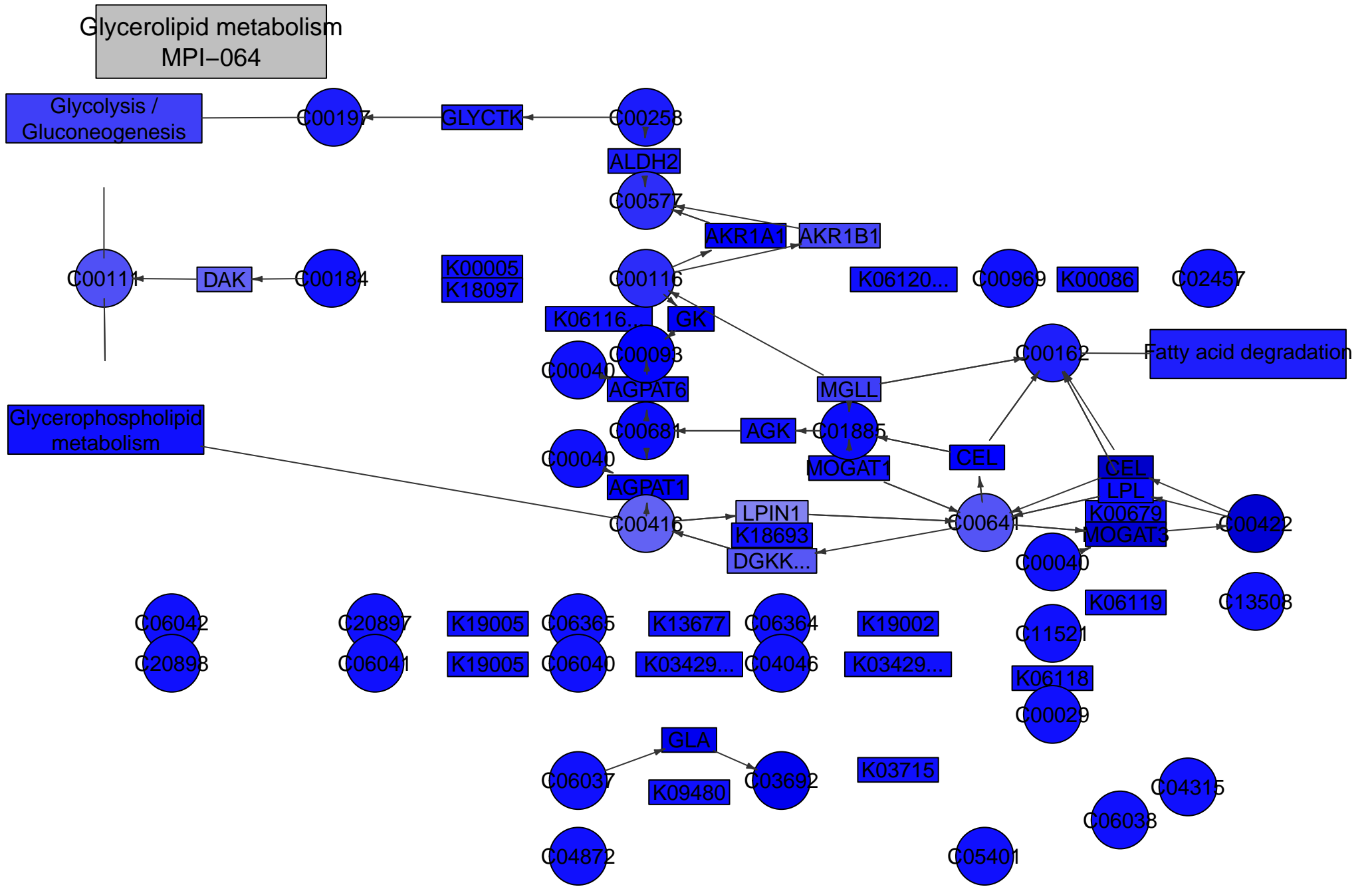
C11521
K06118
C00029

K06119
C00040
C06038

C13508

Fatty acid degradation





Glycerolipid metabolism
MPI-070

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

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K06119

C00029

C13508

C06037

C04872

GLA

K09480

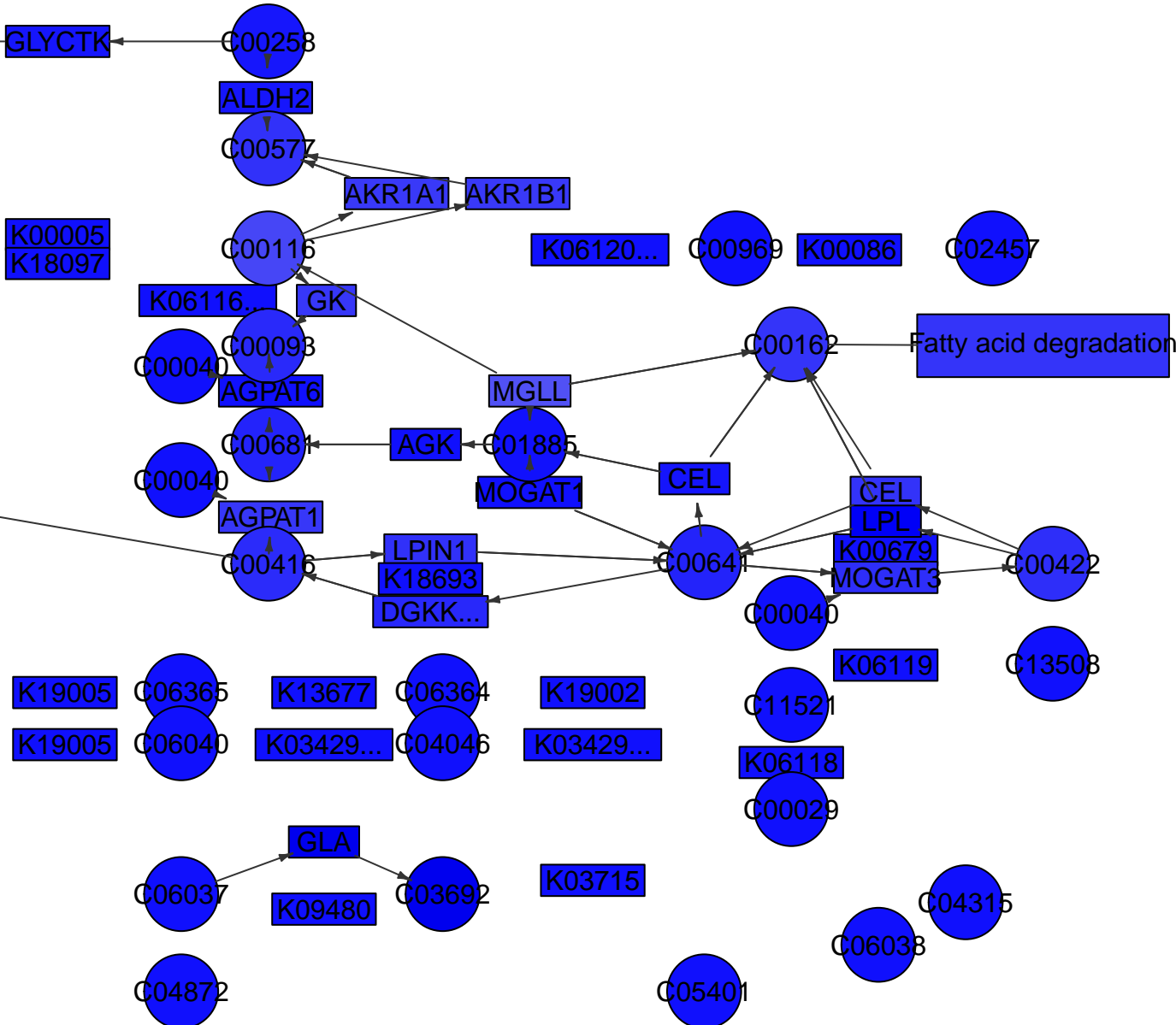
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-099

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

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K06119

C00029

C13508

C06037

C04872

GLA

K09480

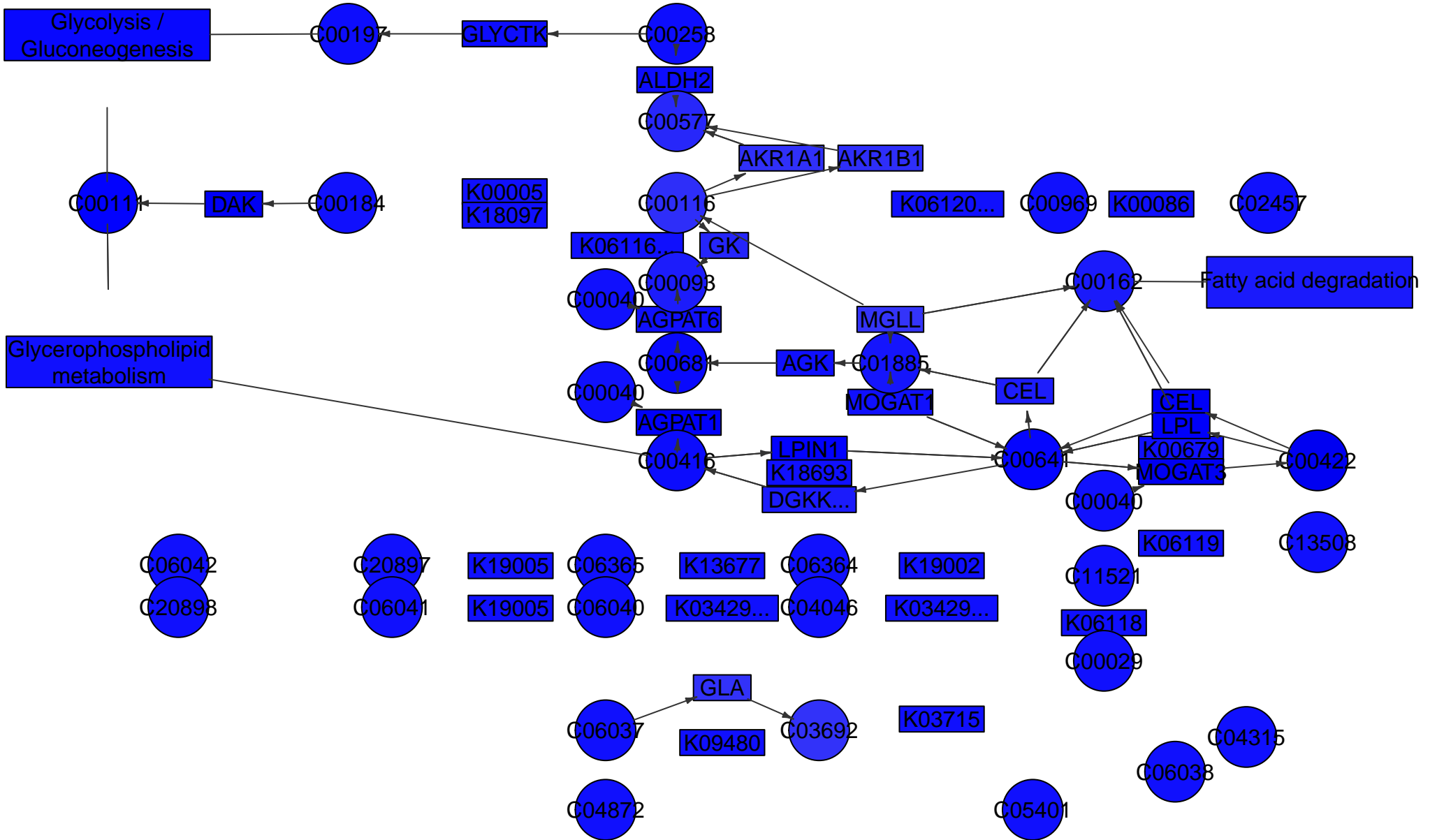
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K03715

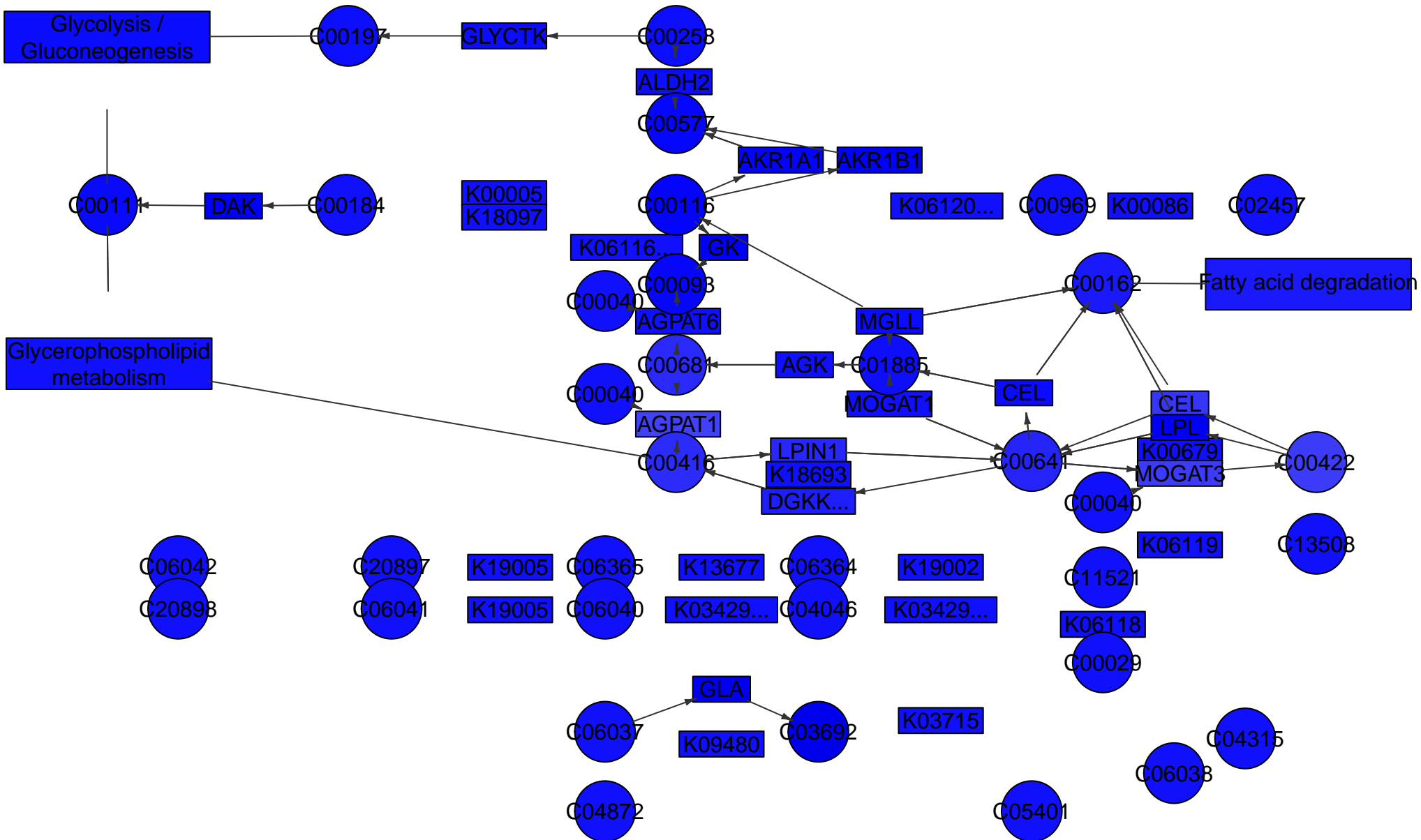
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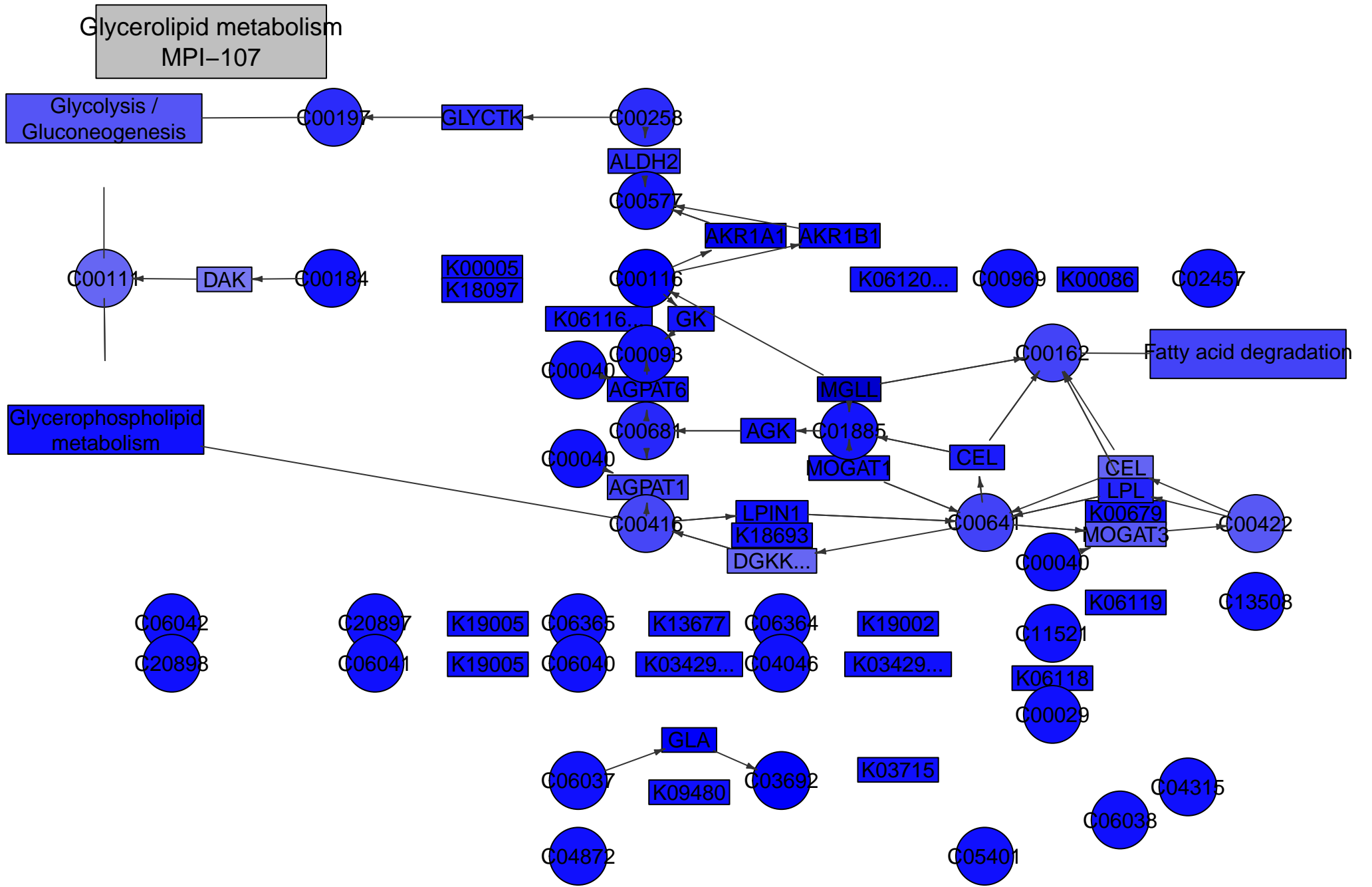
C06038

C04315



Glycerolipid metabolism
MPI-104





Glycerolipid metabolism
MPI-116

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

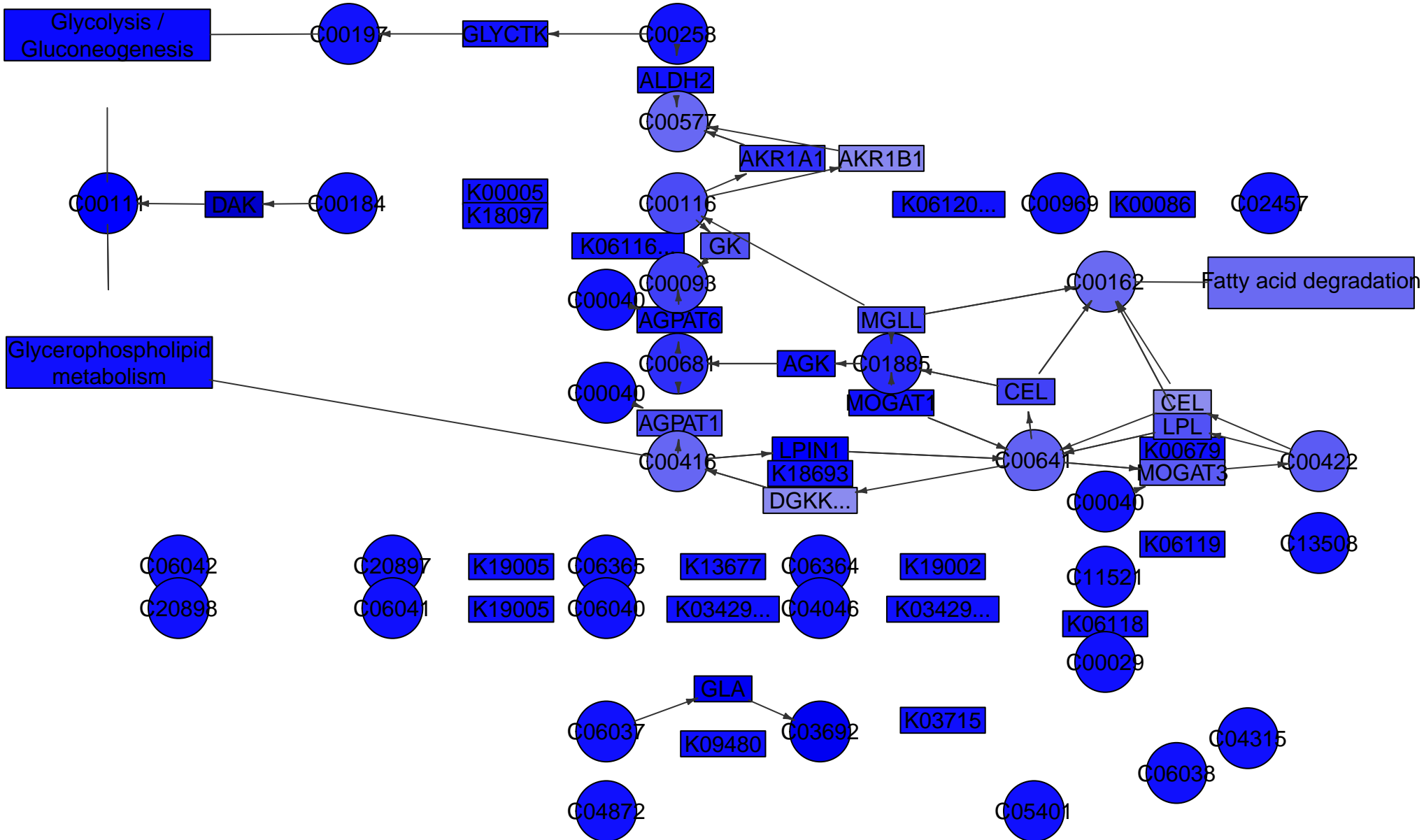
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-117

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

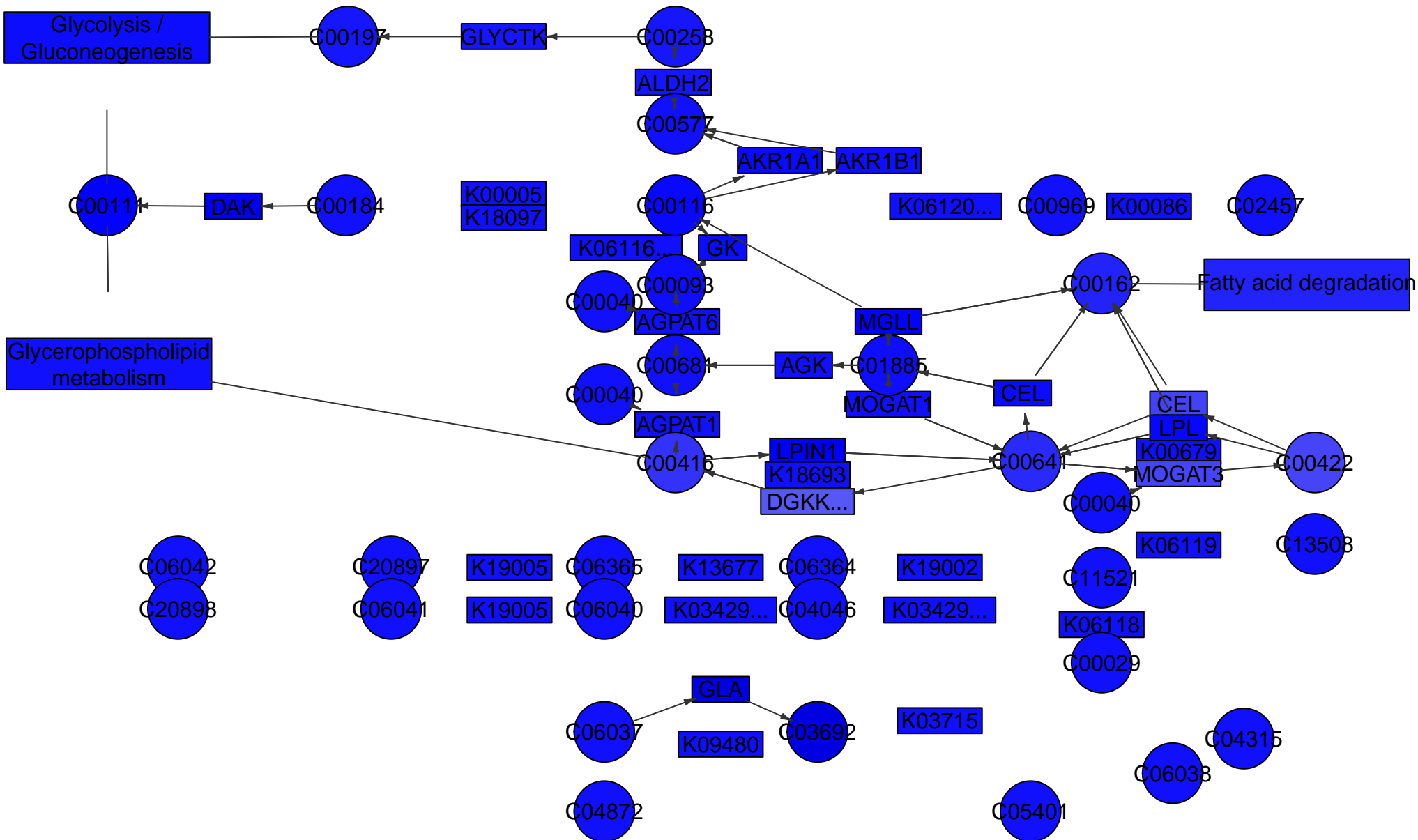
K19002
K03429...

C11521
K06118
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K06119
C00040
C06038

C13508

Fatty acid degradation



Glycerolipid metabolism
MPI-120

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

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K06119

C00029

C13508

C06037

C04872

GLA

K09480

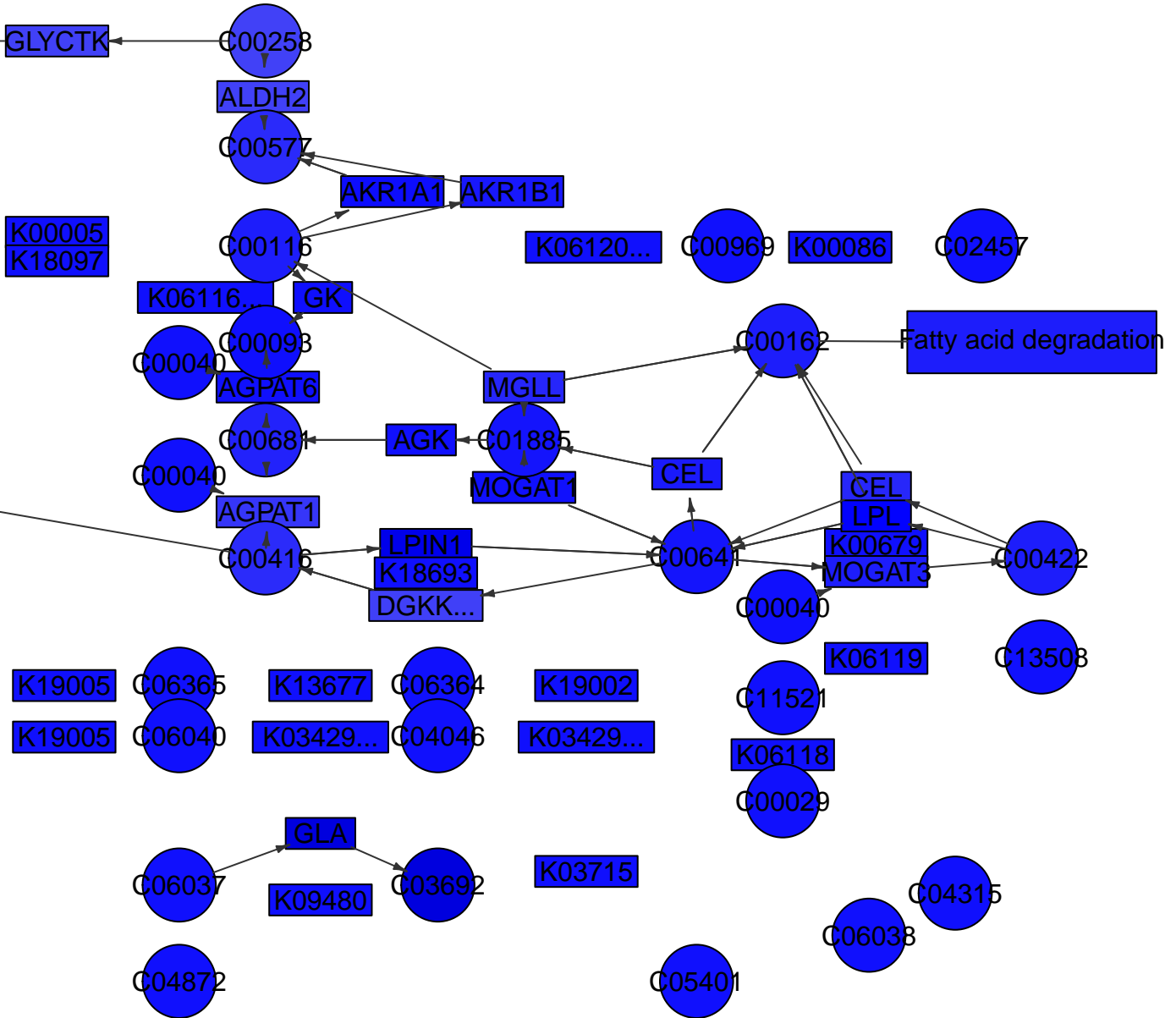
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-121

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

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K06119

C00029

C13508

C06037

C04872

GLA

K09480

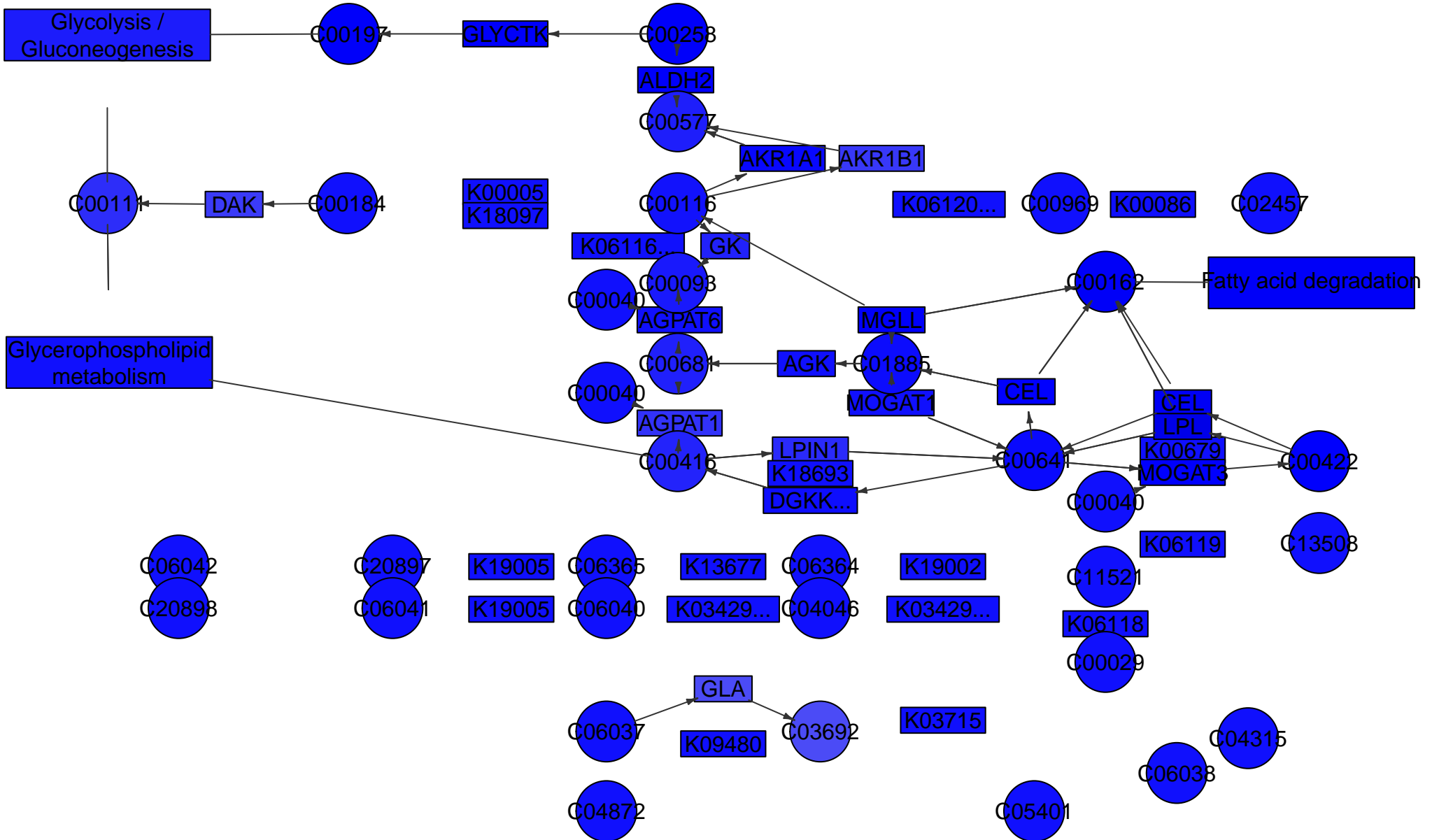
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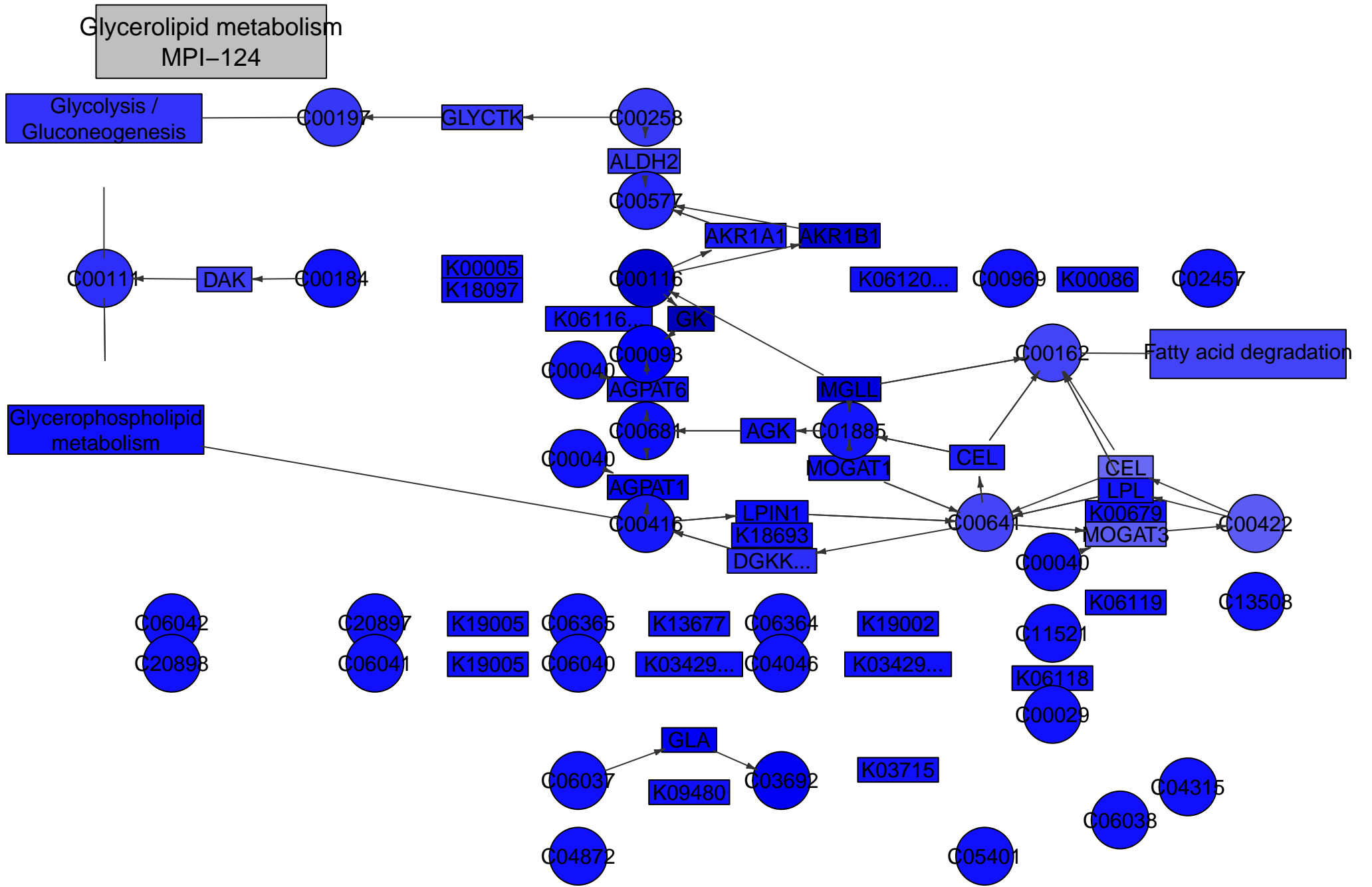
K03715

C05401

C06038

C04315





Glycerolipid metabolism
MPI-131

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

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C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

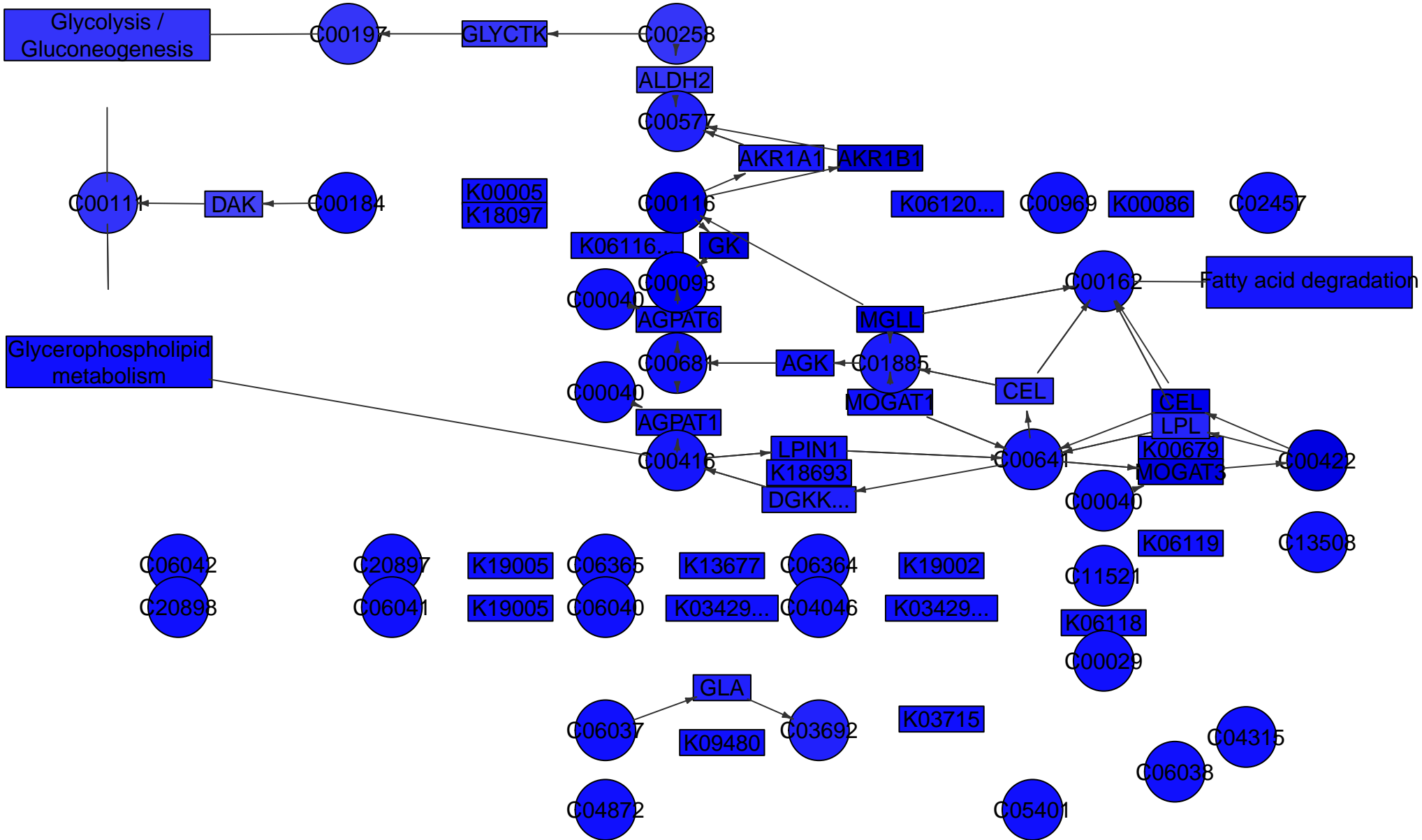
K19002

K03429...

K06119

K06118

C13508



Glycerolipid metabolism
MPI-143

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

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K06119
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C06038

C13508

C06037
C04872

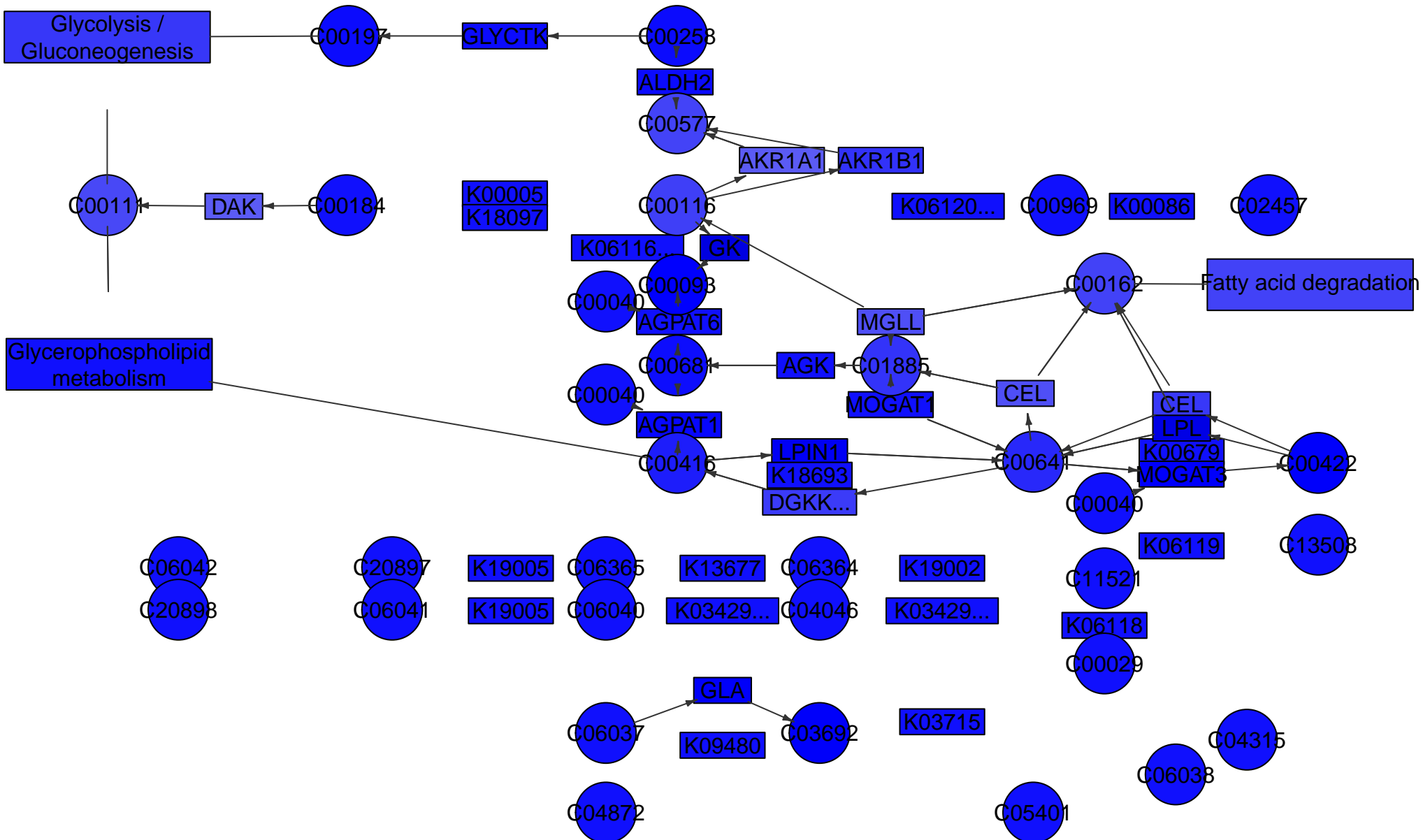
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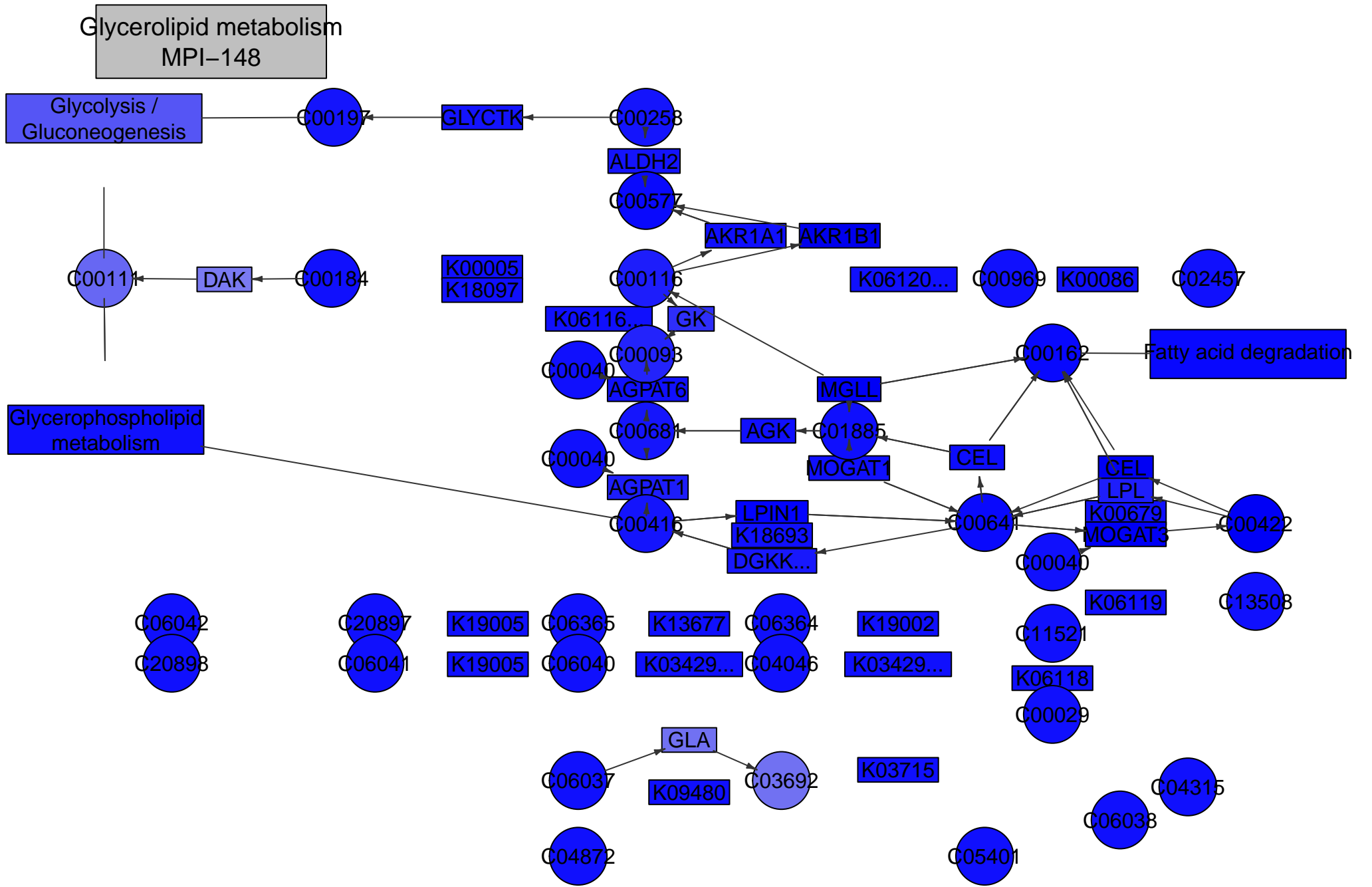
C03692

K03715

C05401

C04315





Glycerolipid metabolism
MPI-161

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

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K06119

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C13508

C06037

C04872

GLA

K09480

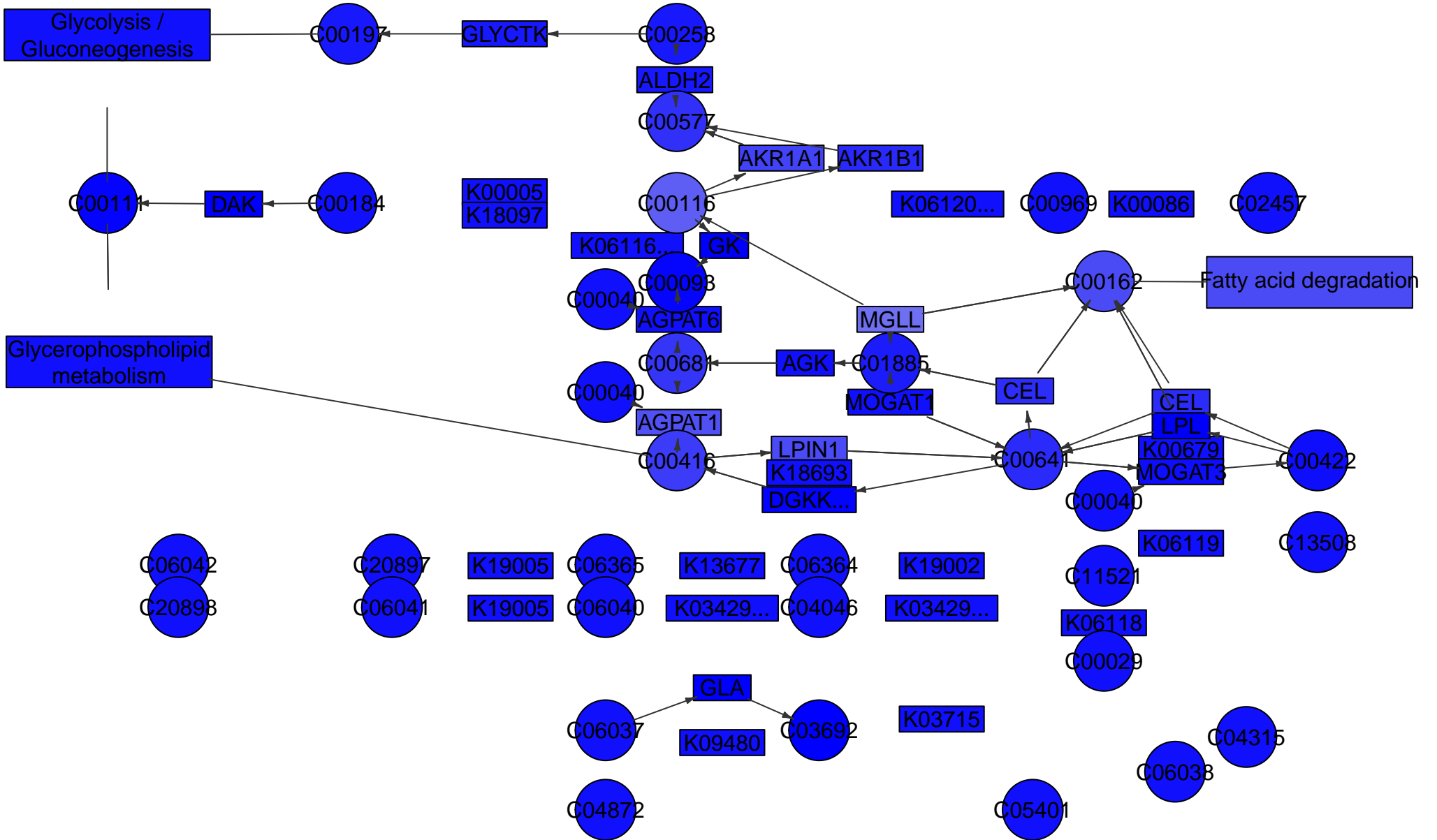
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C05401

C06038

C04315



Glycerolipid metabolism
MPI-162

Glycolysis /
Gluconeogenesis

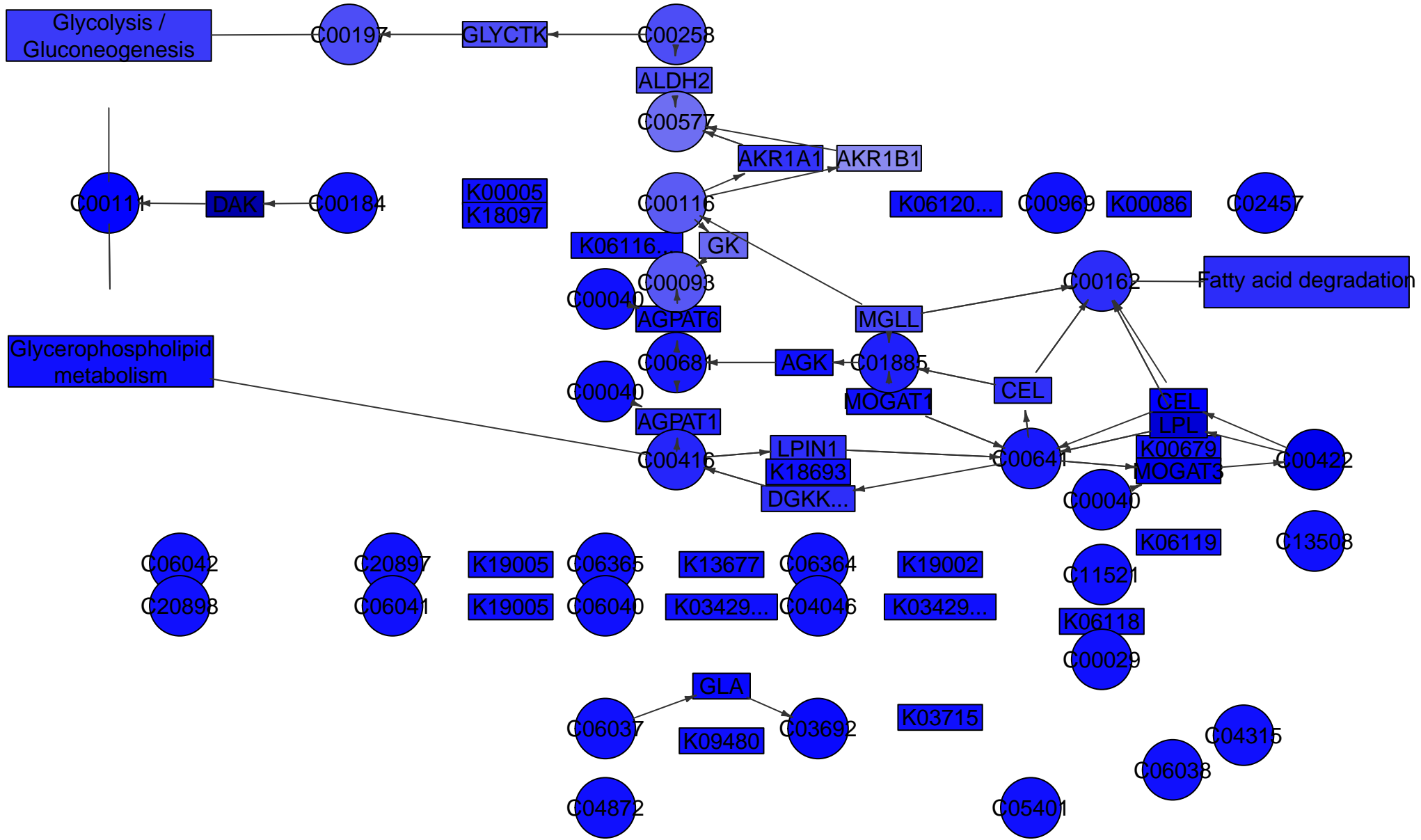
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DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism



Glycerolipid metabolism
MPI-169

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

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K06119
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C13508

C06037
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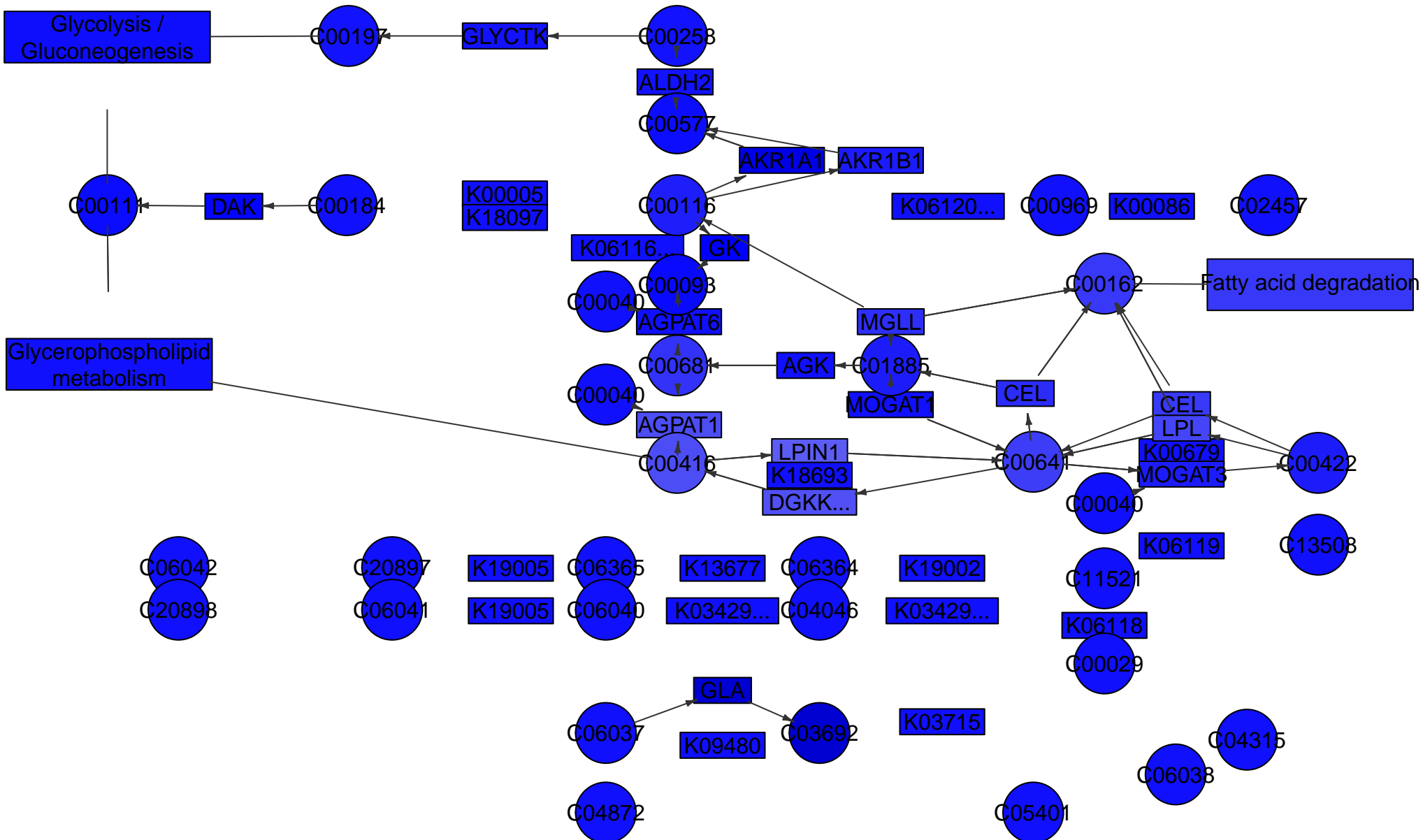
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C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-175

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
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K06119
C13508
C06038

C06037
C04872

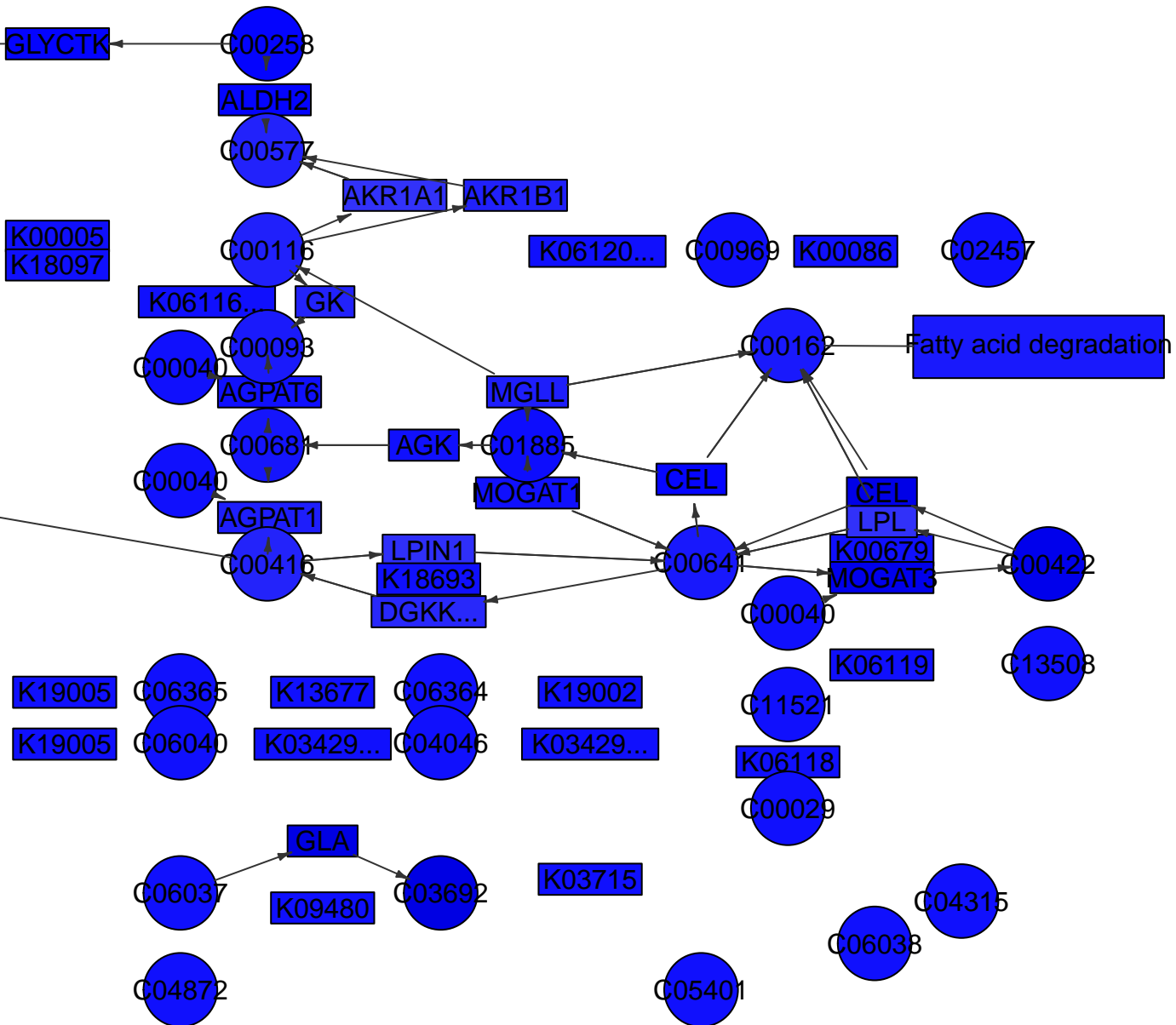
GLA
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C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-187

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

C13508

C06037
C04872

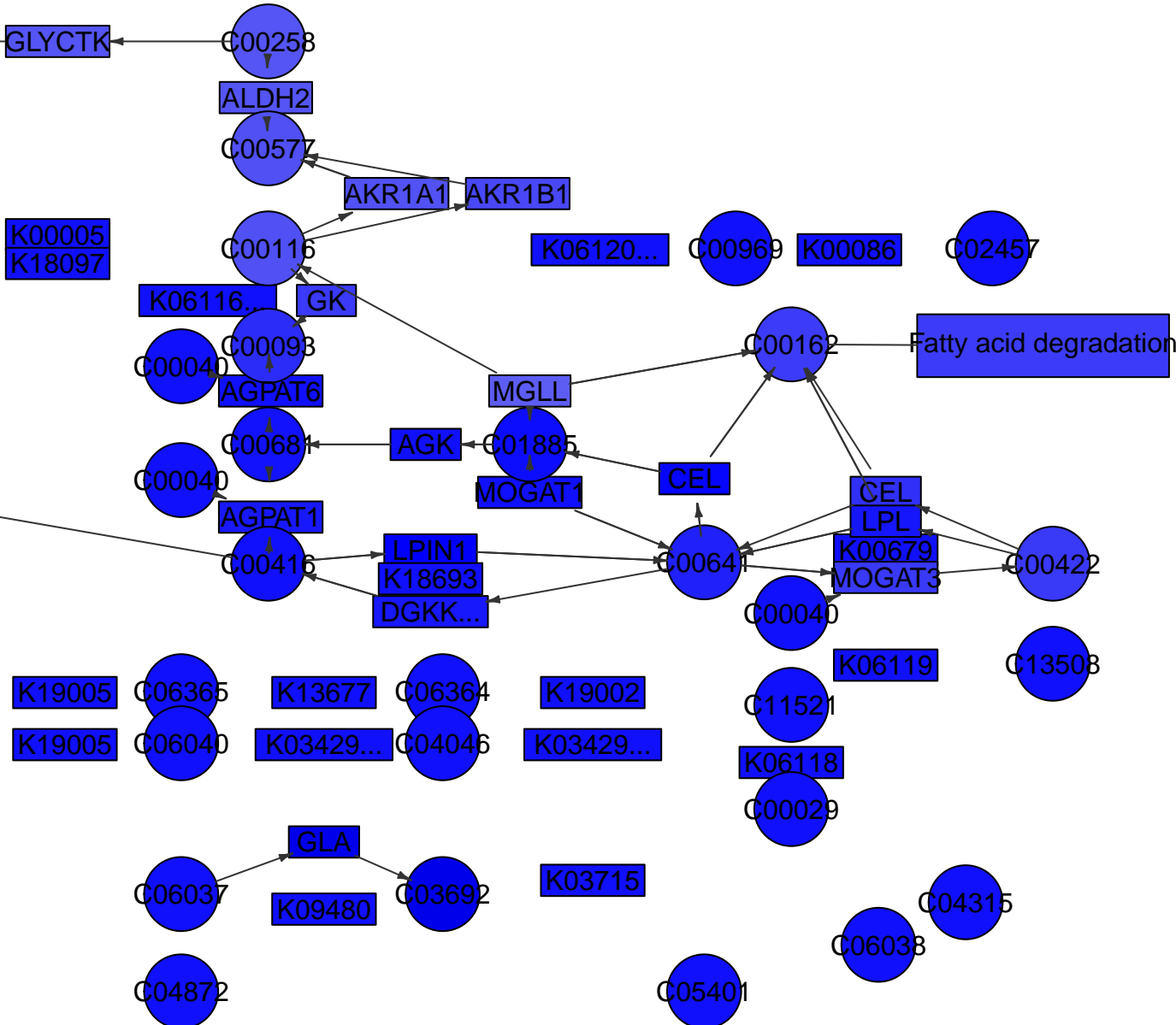
GLA
K09480

C03692

K03715

C05401

C06038
C04315



Glycerolipid metabolism
MPI-193

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C00040
C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

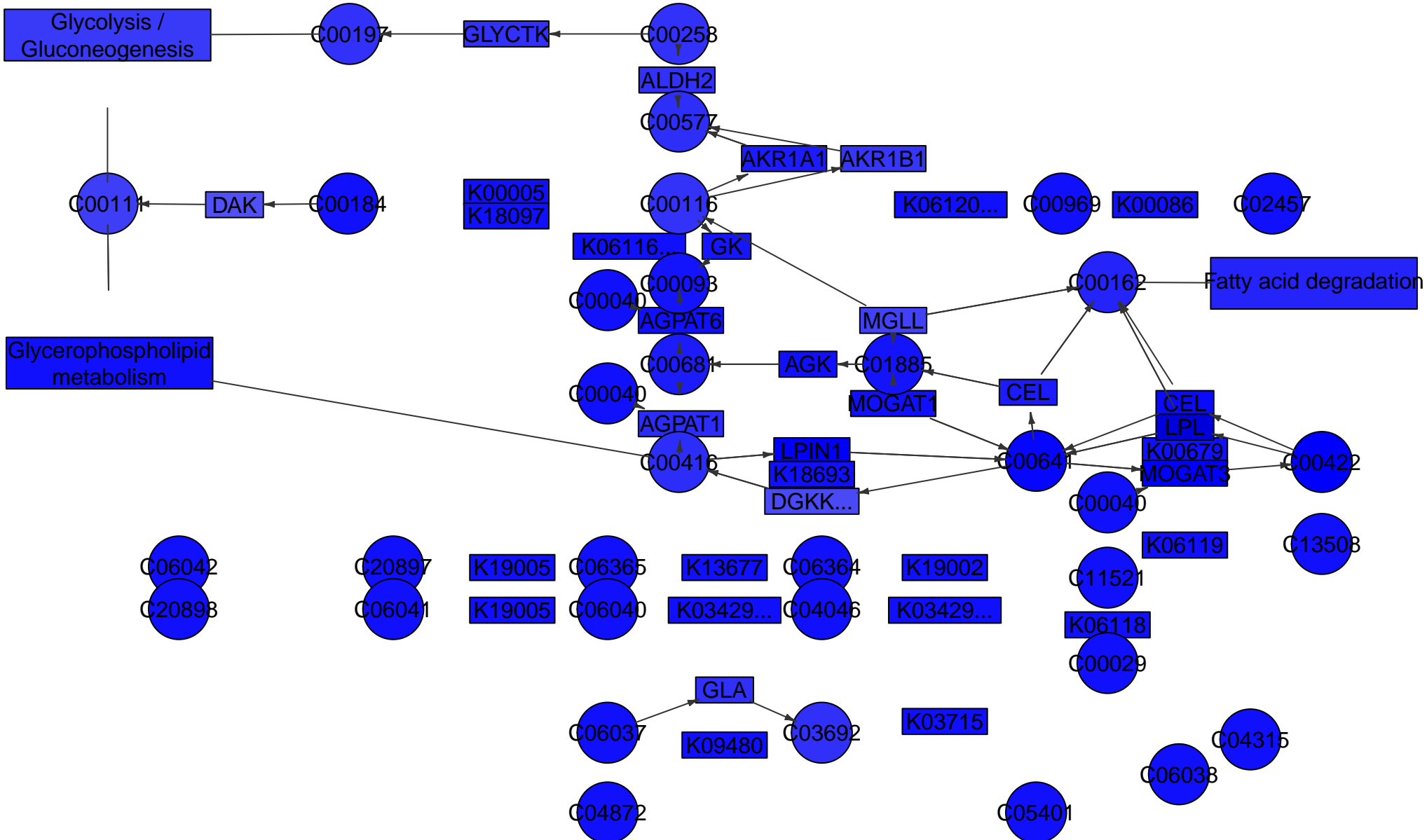
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-216

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C00040
C06038

C13508

C06037
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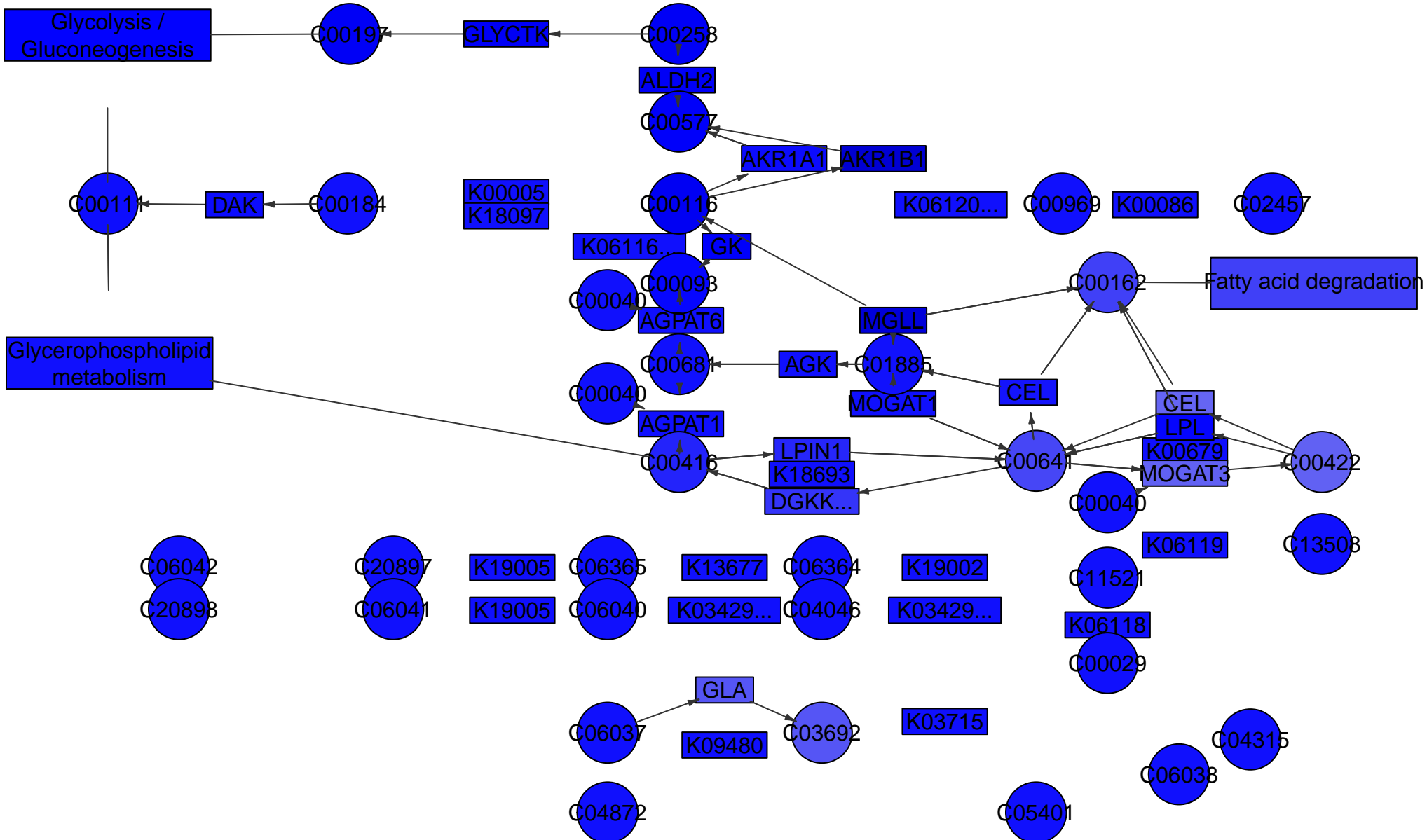
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-222

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

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K06118
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K06119
C00040
C06038

C13508

C06037
C04872

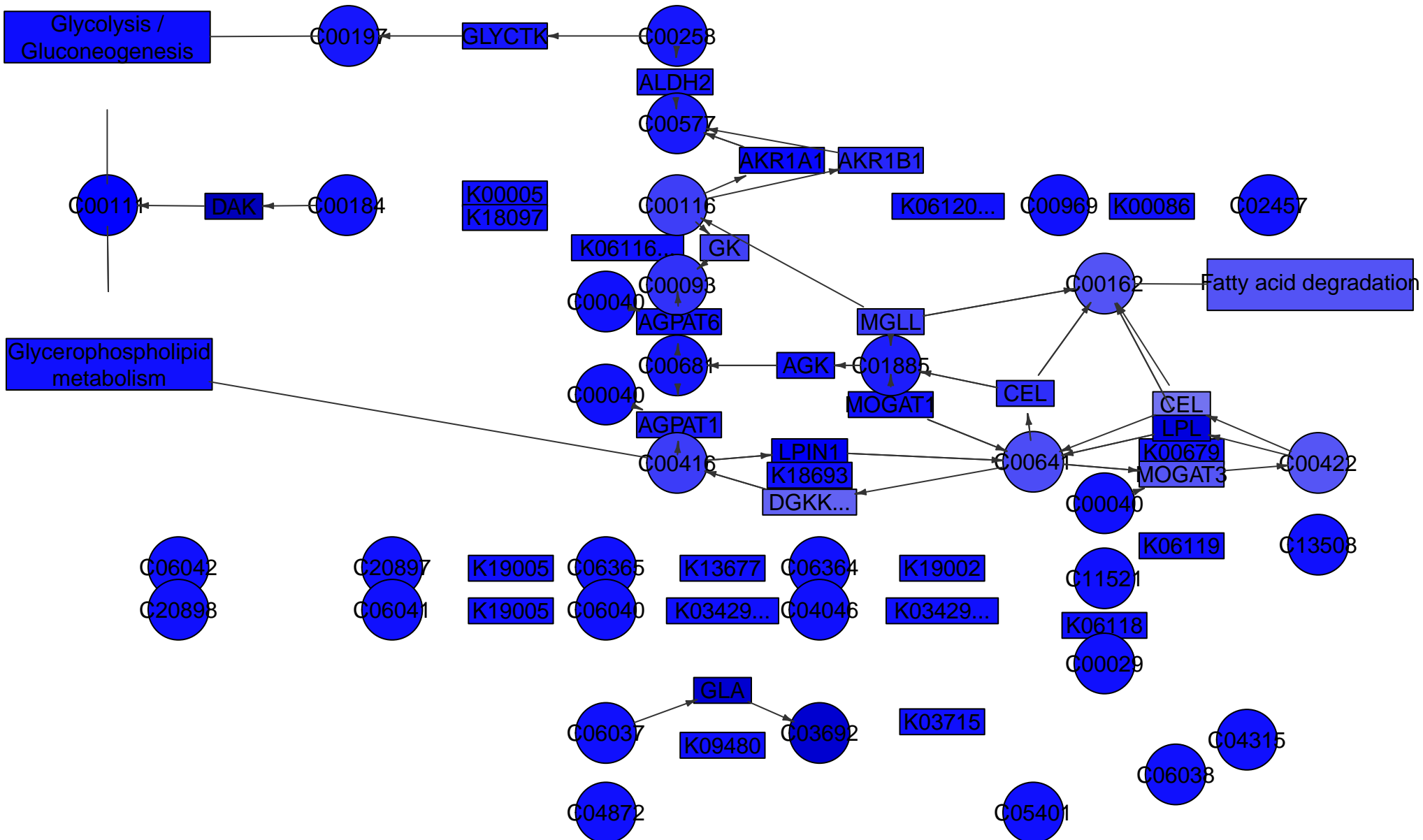
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-225

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

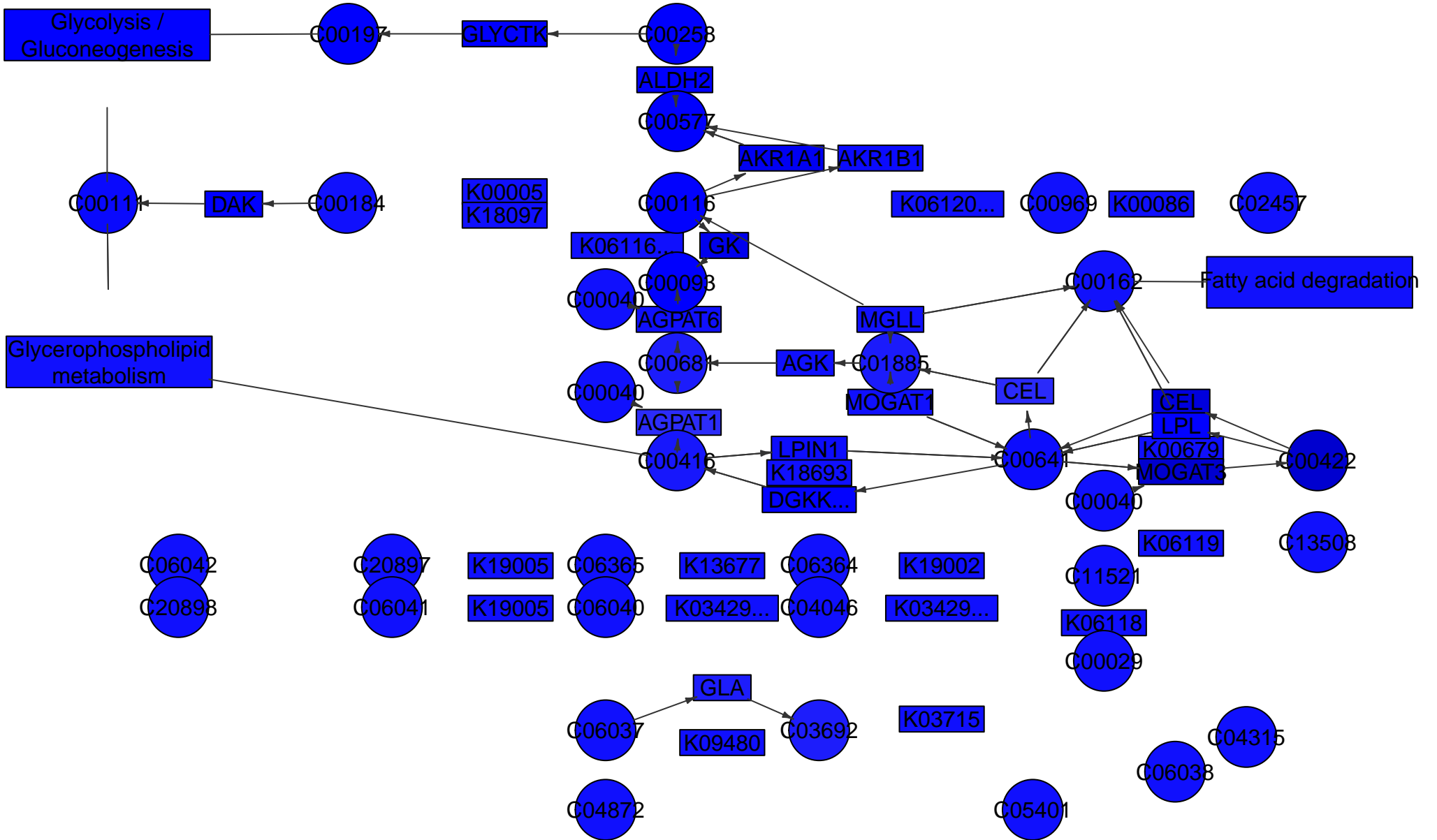
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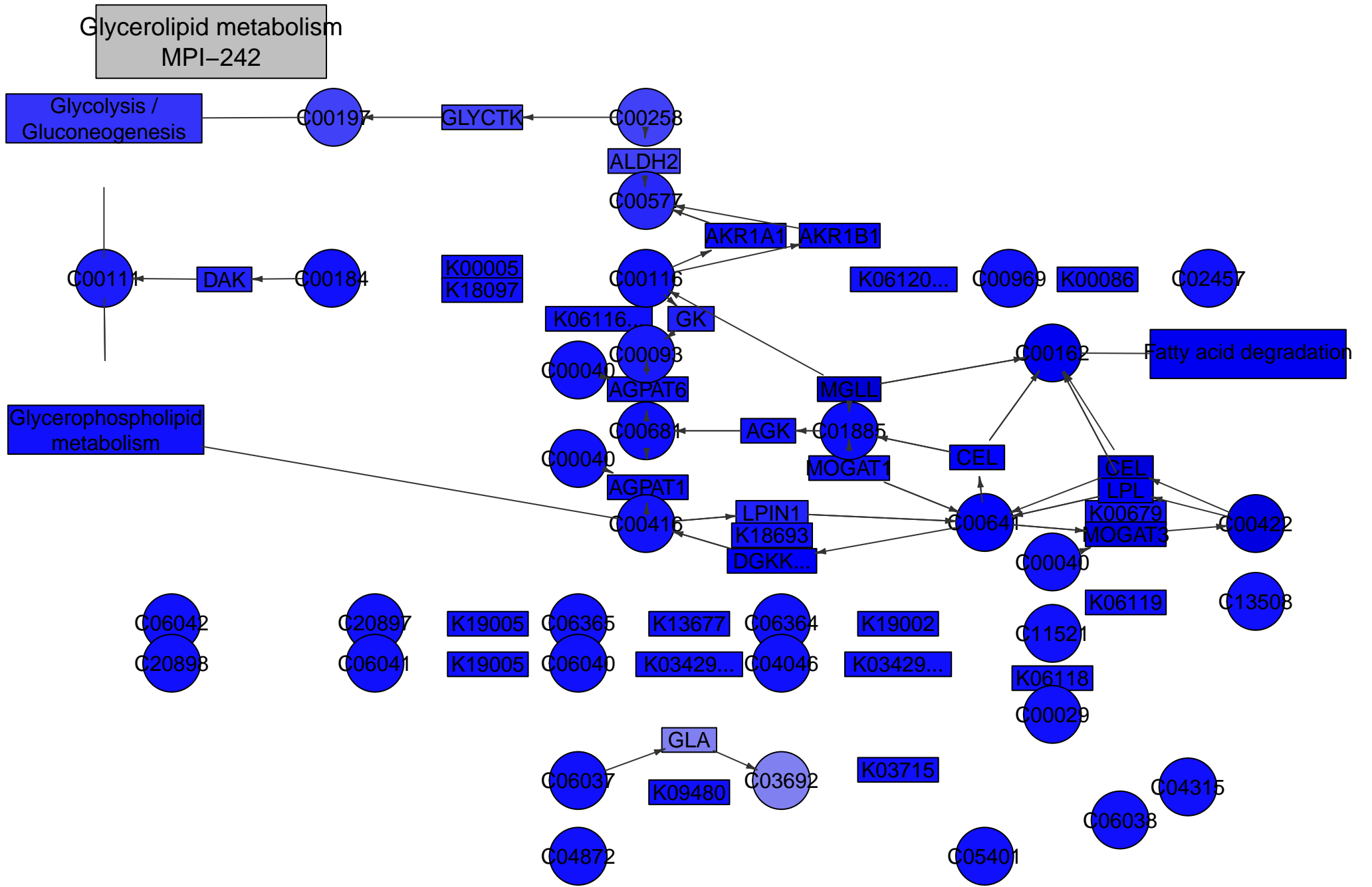
K03715

C05401

C06038

C04315





Glycerolipid metabolism
MPI-245

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

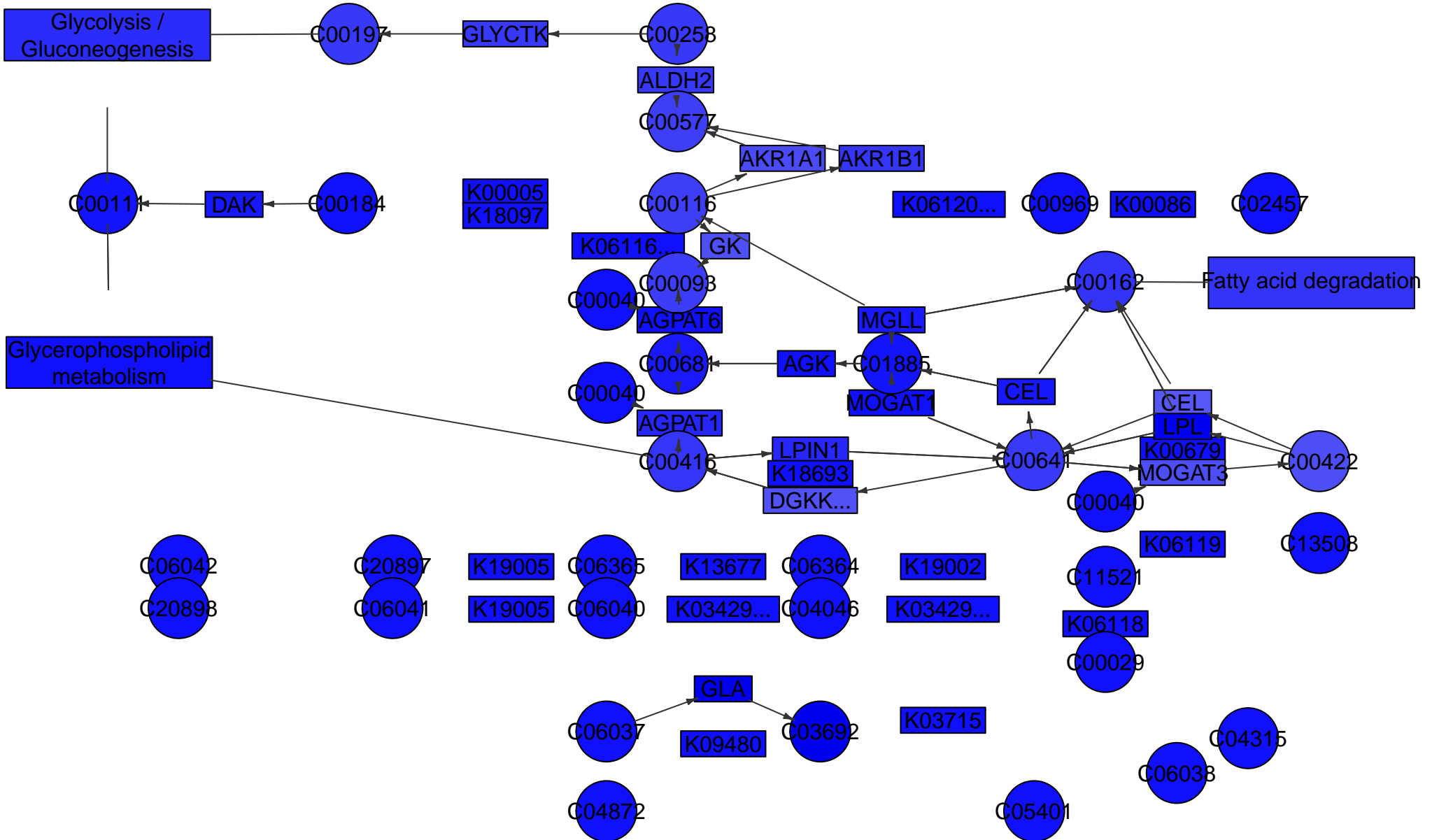
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-248

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

K06119

K06118

C13508

C06037

C04872

GLA

K09480

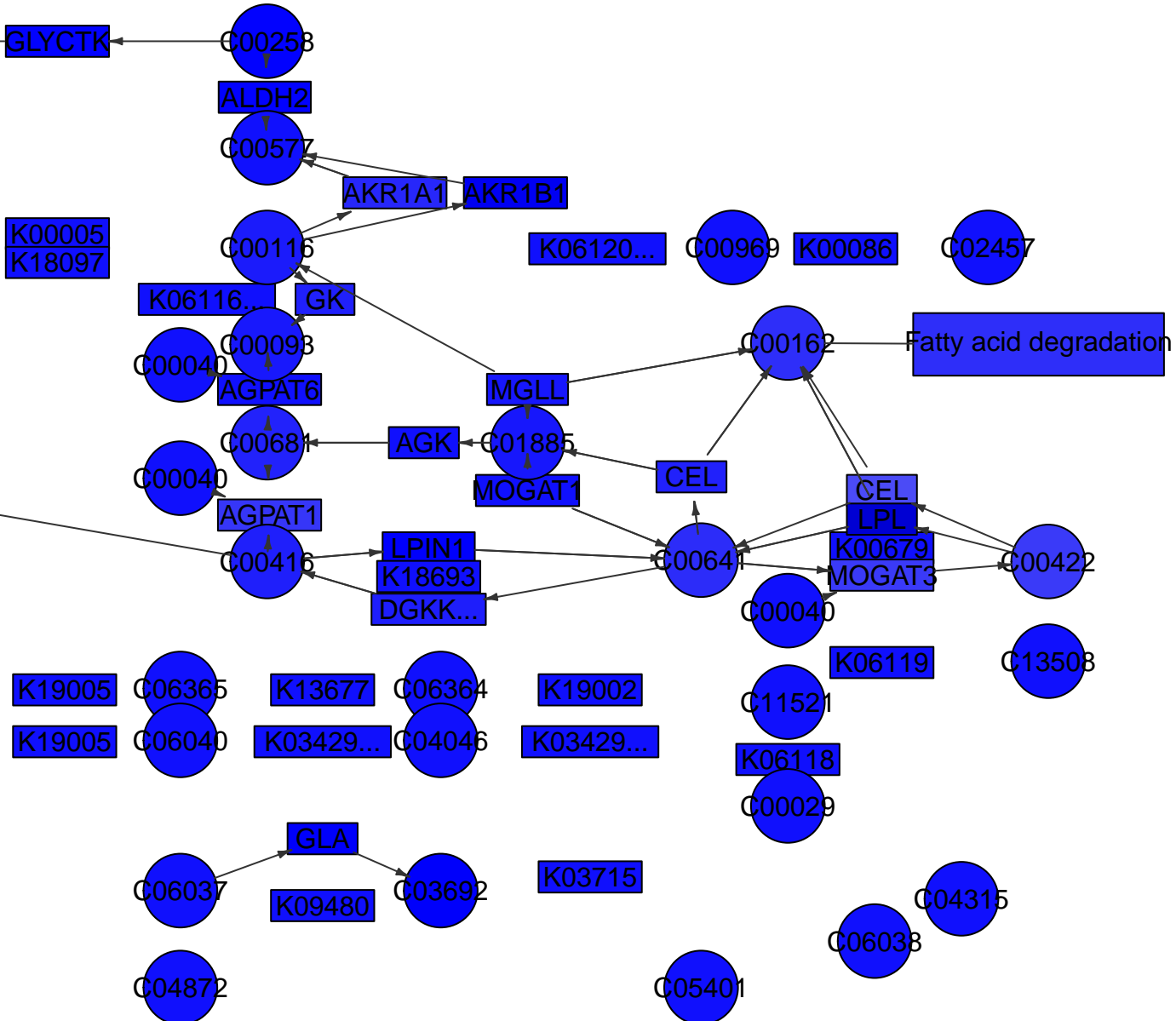
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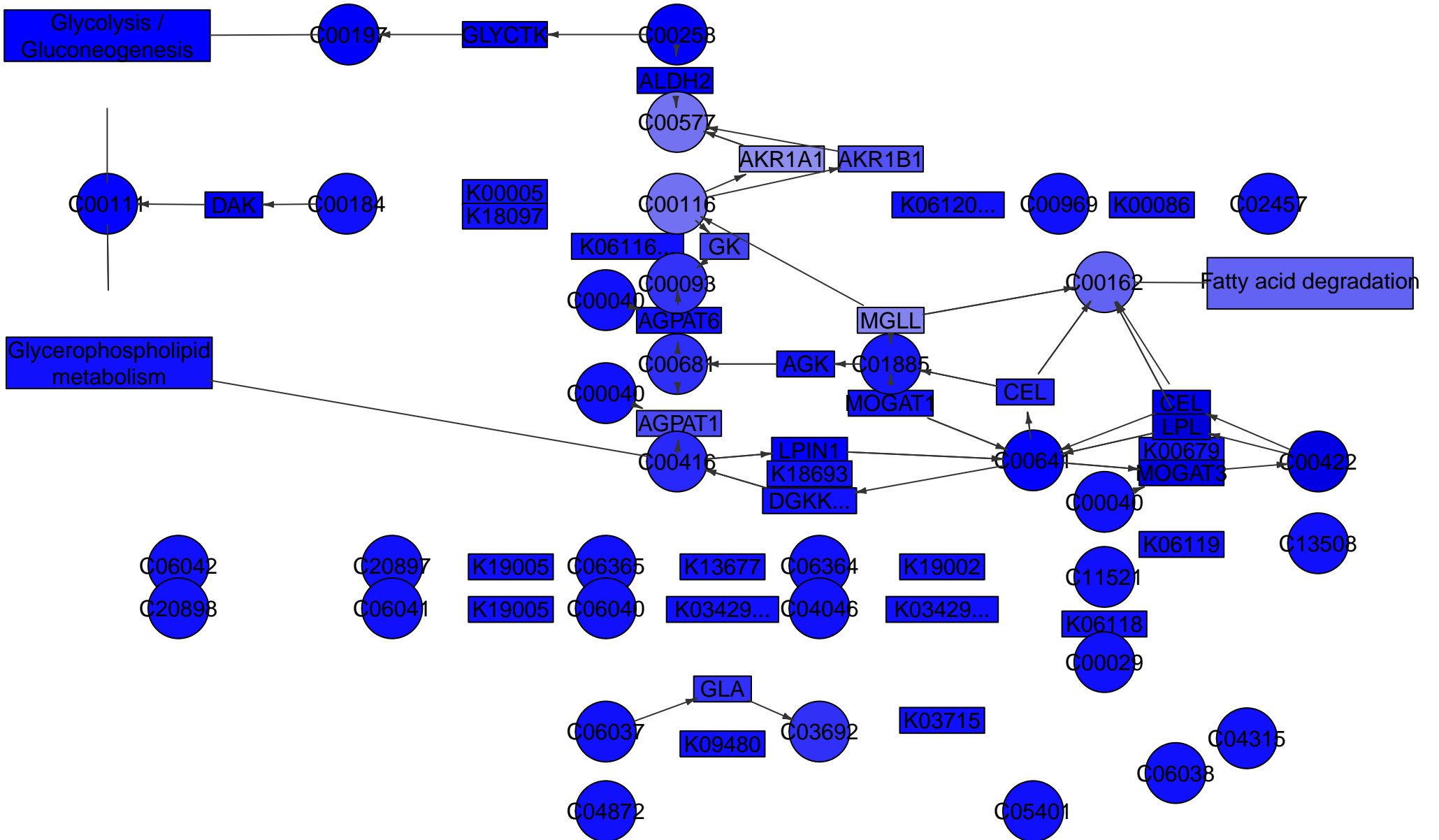
C05401

C06038

C04315



Glycerolipid metabolism
MPI-250



Glycerolipid metabolism
MPI-008

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

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K06119

C00029

C13508

C06037

C04872

GLA

K09480

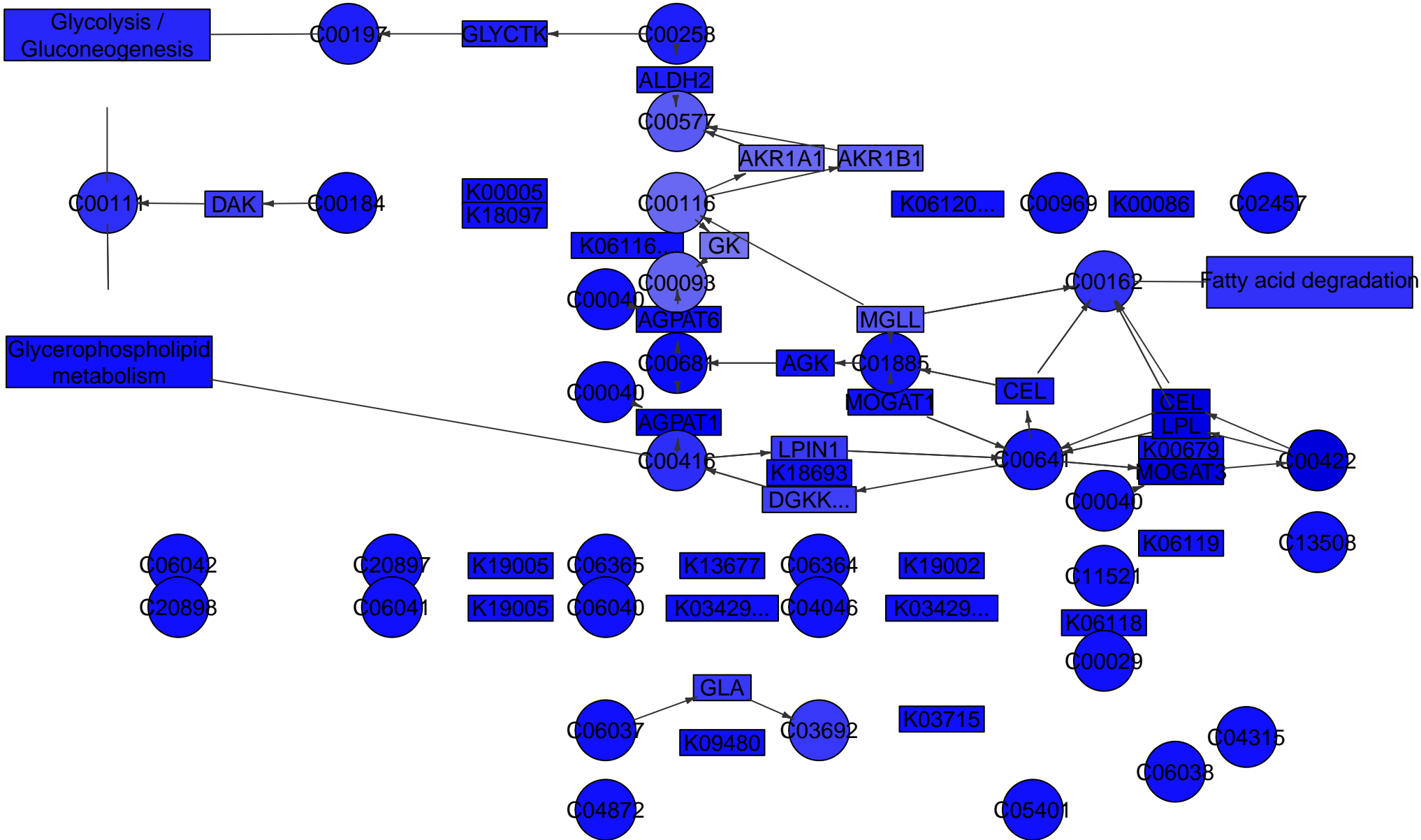
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K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-009

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

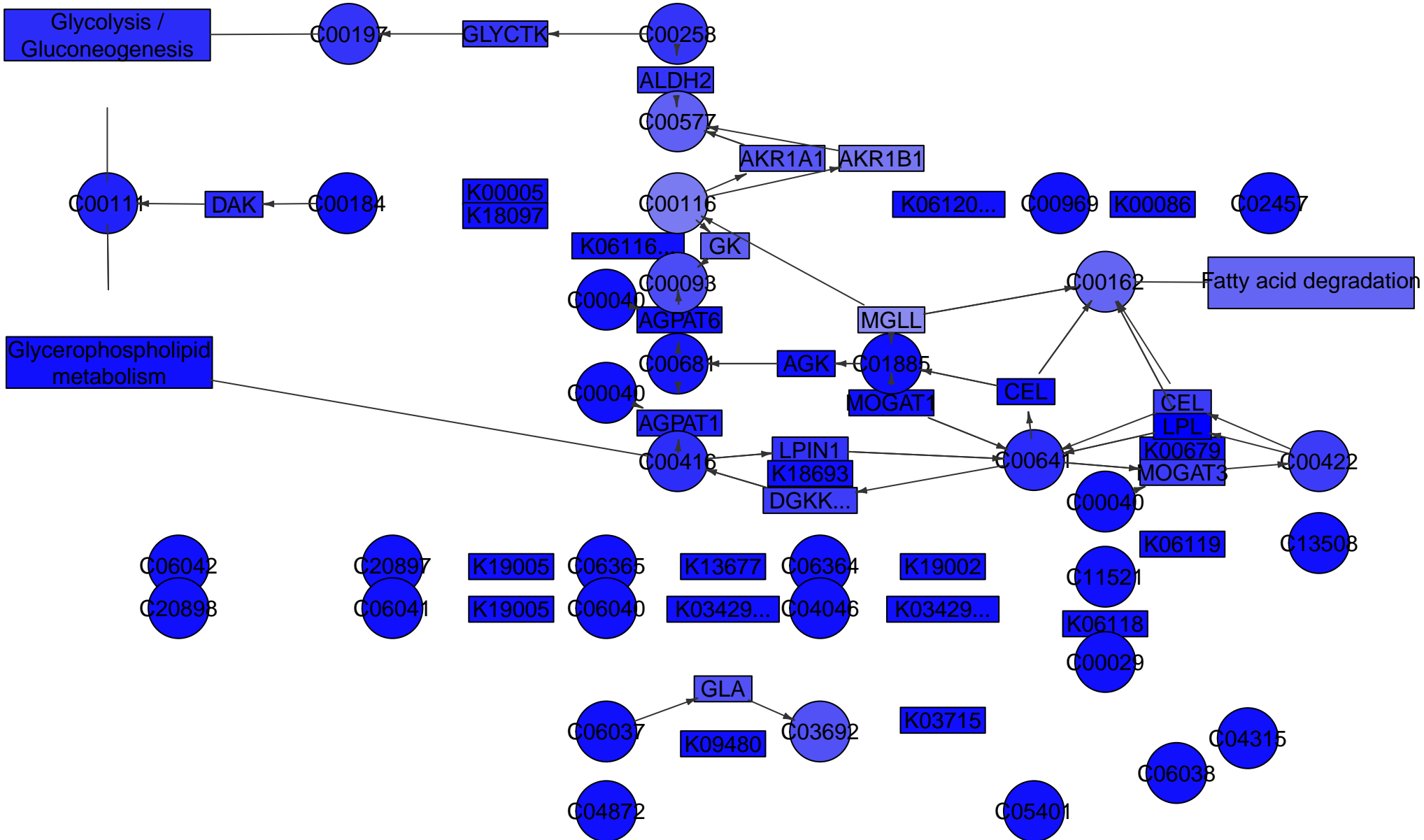
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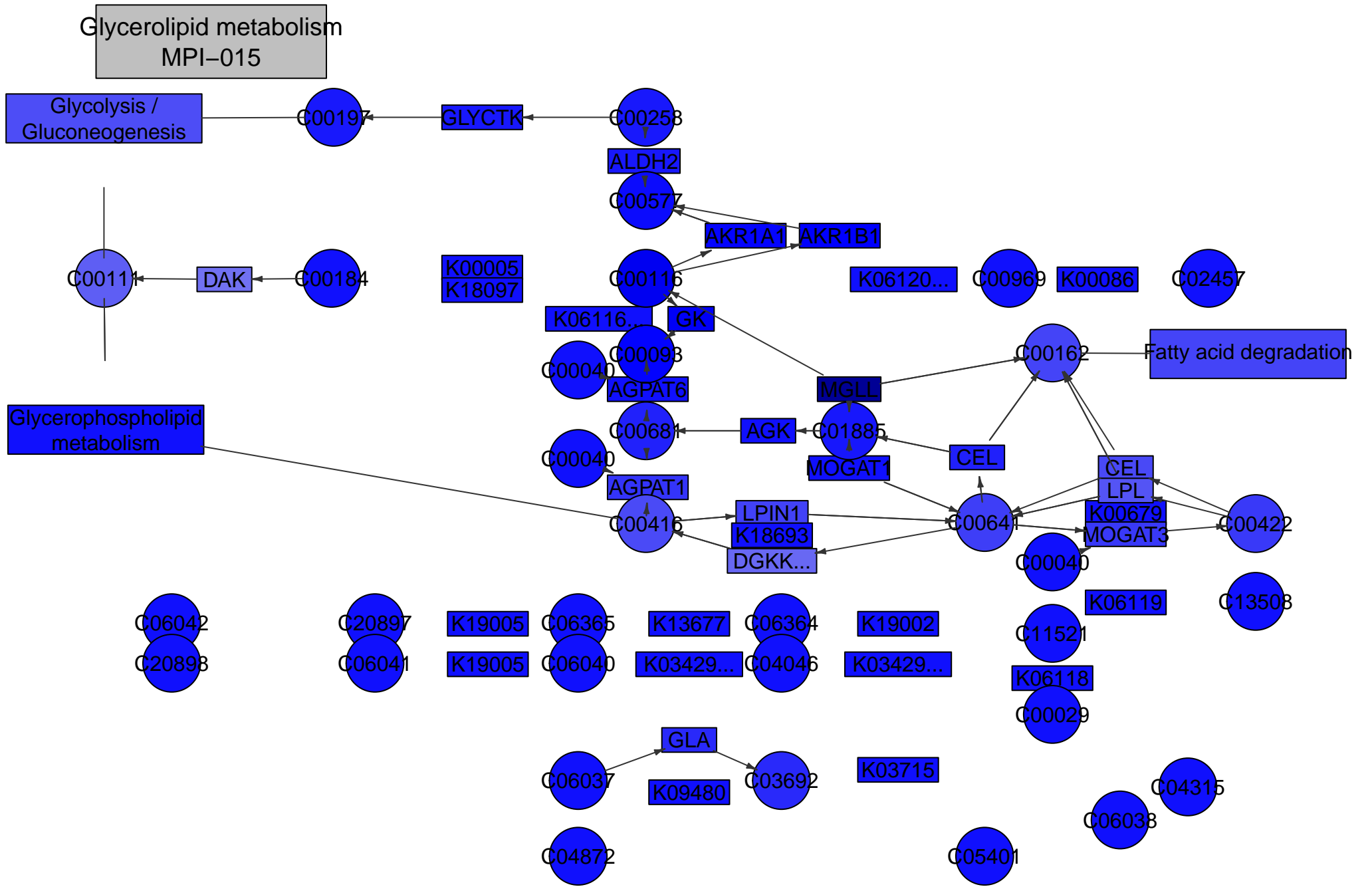
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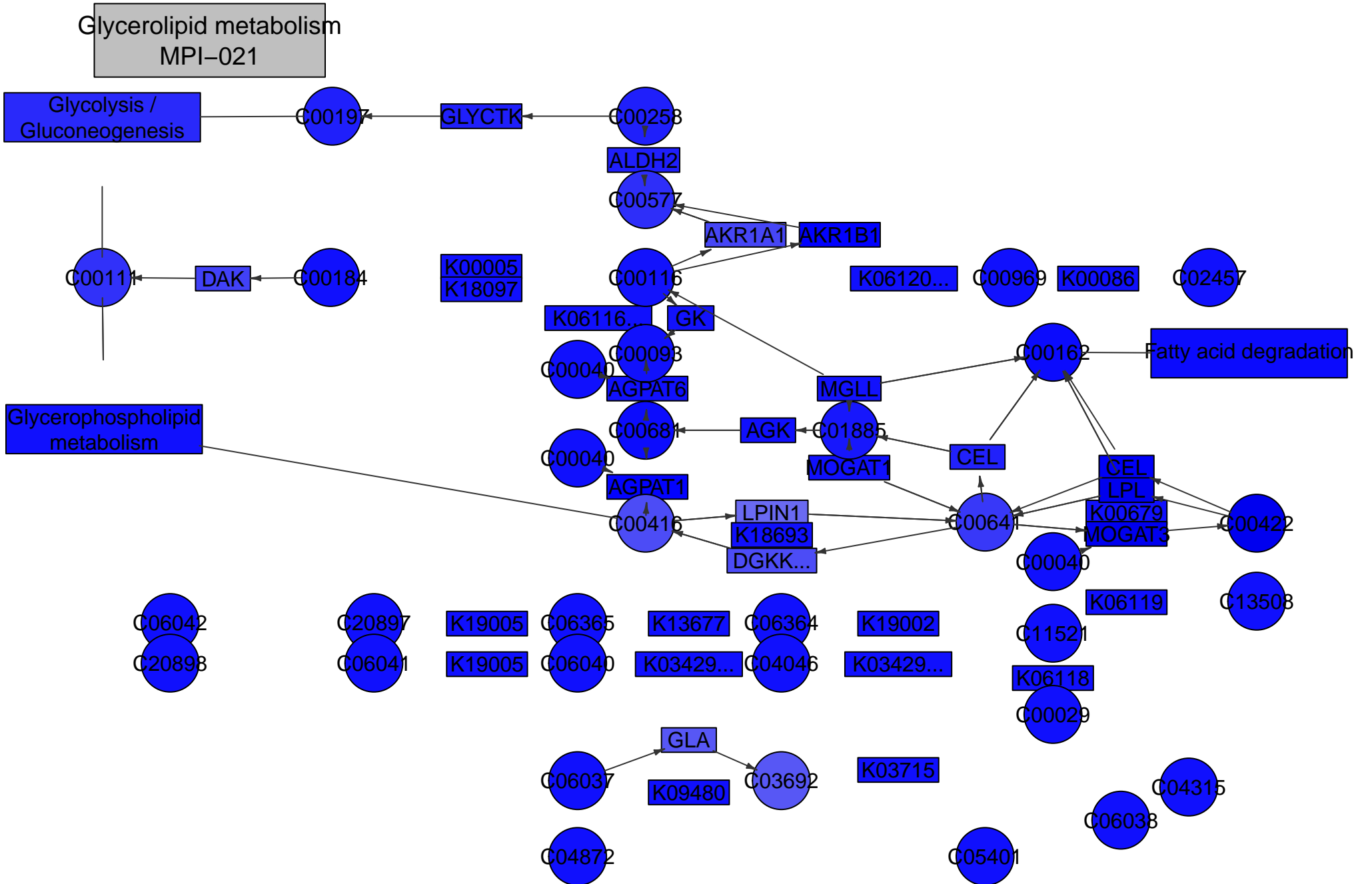
C05401

C06038

C04315







Glycerolipid metabolism
MPI-025

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

C06037

C04872

GLA

K09480

C03692

K03715

C05401

C00258

GLYCTK

ALDH2

C00577

AKR1A1

AKR1B1

C00116

K06116...

GK

C00098

C00040

AGPAT6

C00681

C00040

AGPAT1

C00416

LPIN1

K18693

DGKK...

MGLL

AGK

C01885

MOGAT1

CEL

C00641

CEL

LPL

K00679

MOGAT3

C00422

C00162

Fatty acid degradation

K06120...

C00969

K00086

C02457

C00040

C11521

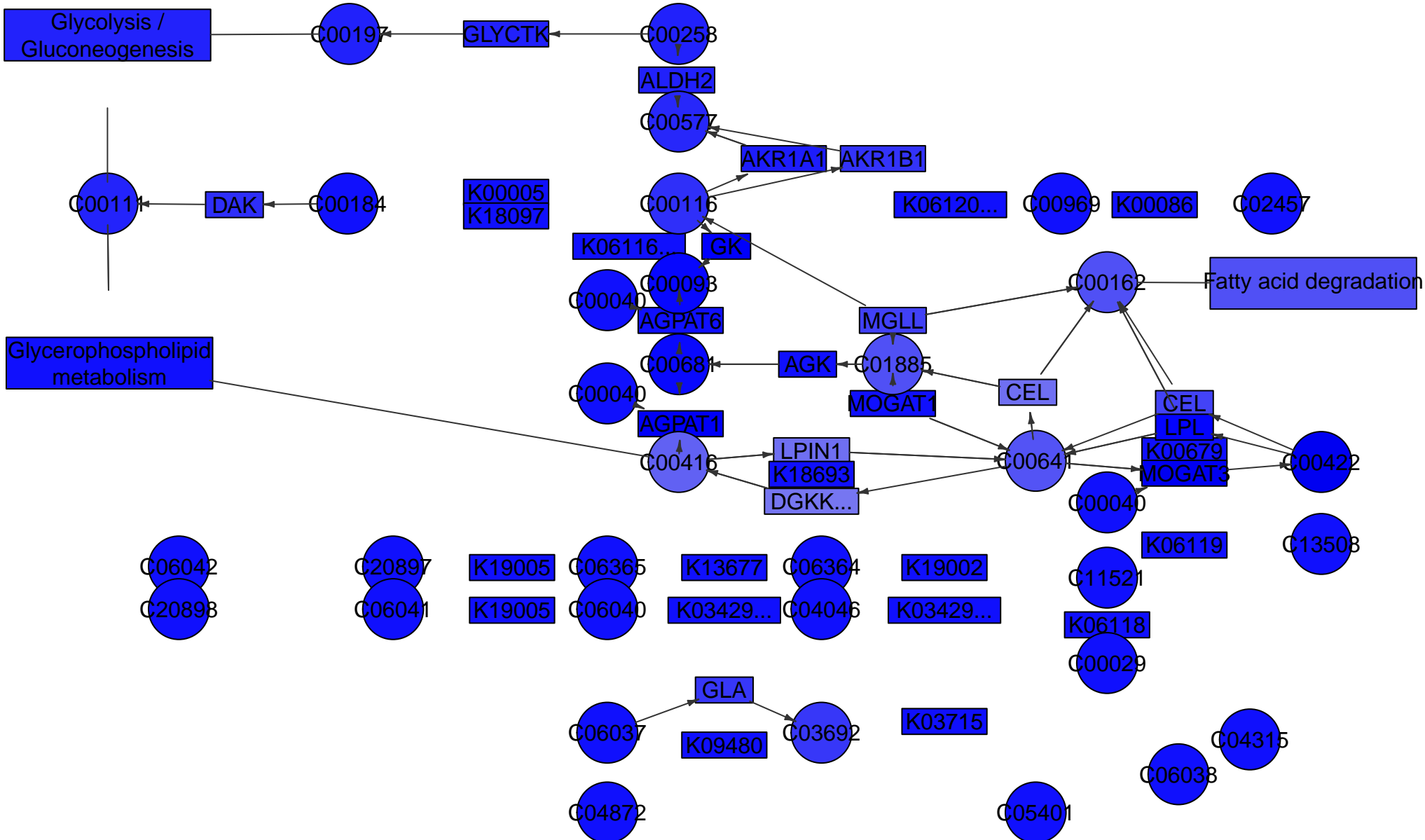
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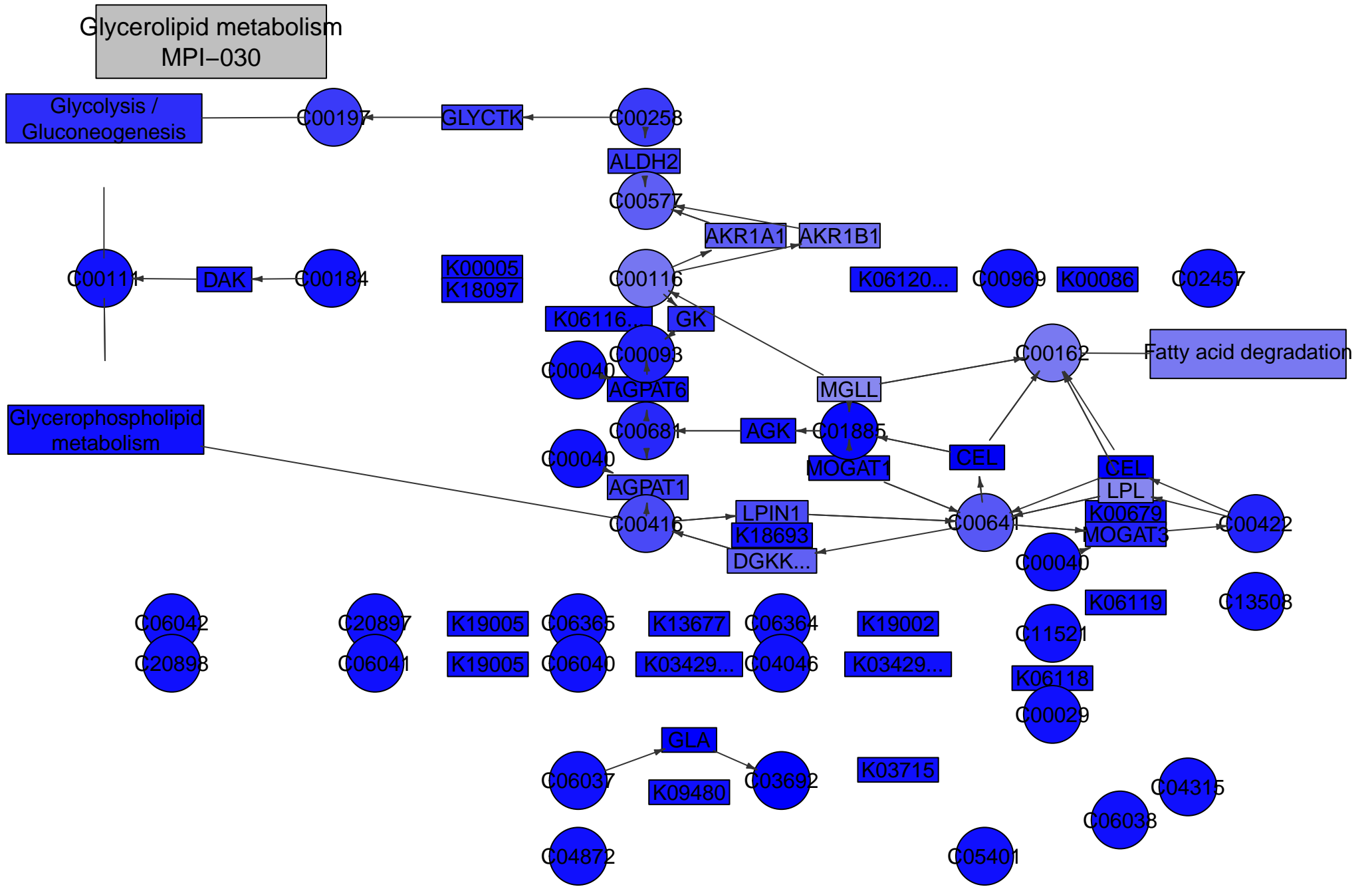
C00029

C06038

C04315

C13508





Glycerolipid metabolism
MPI-040

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

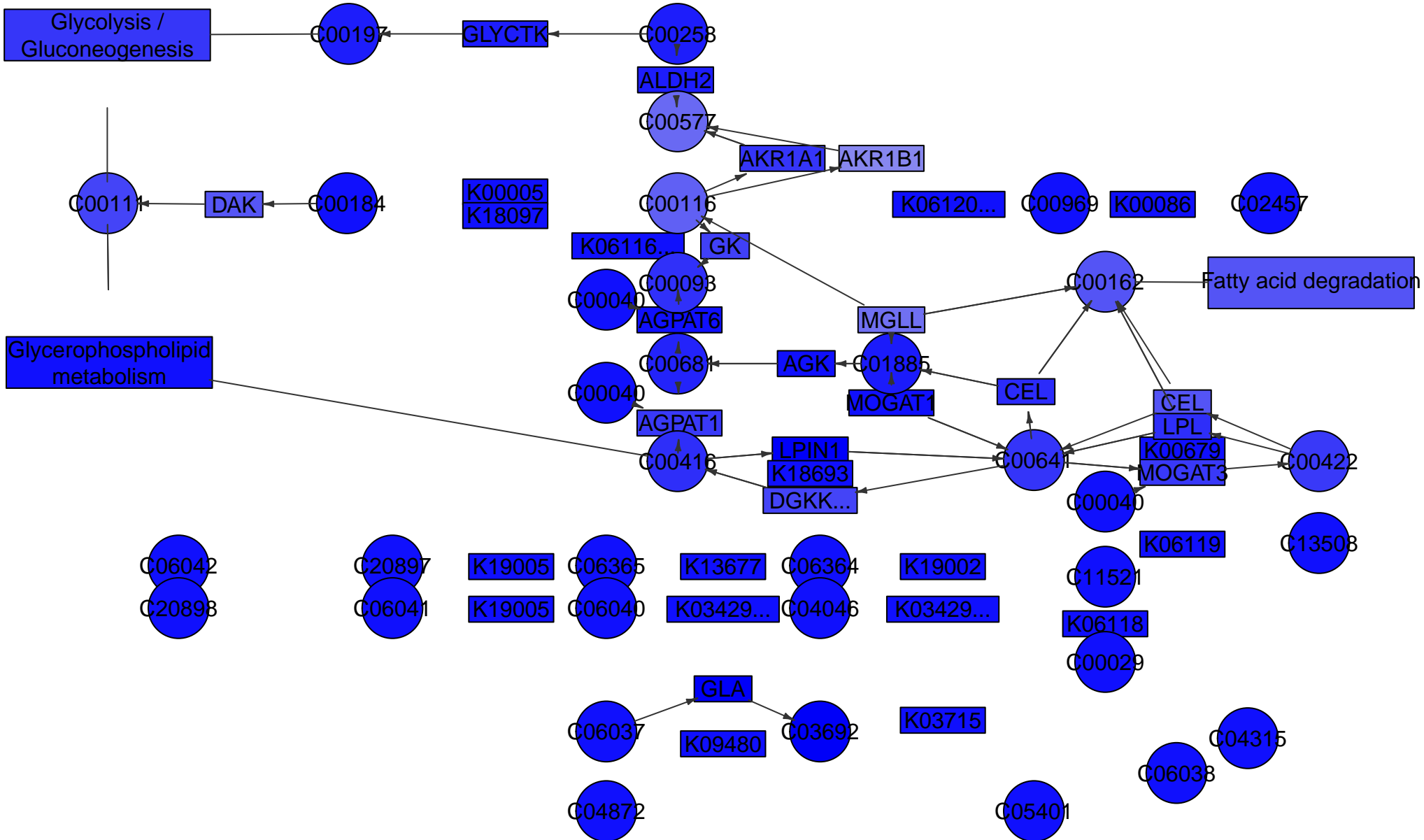
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K03429...

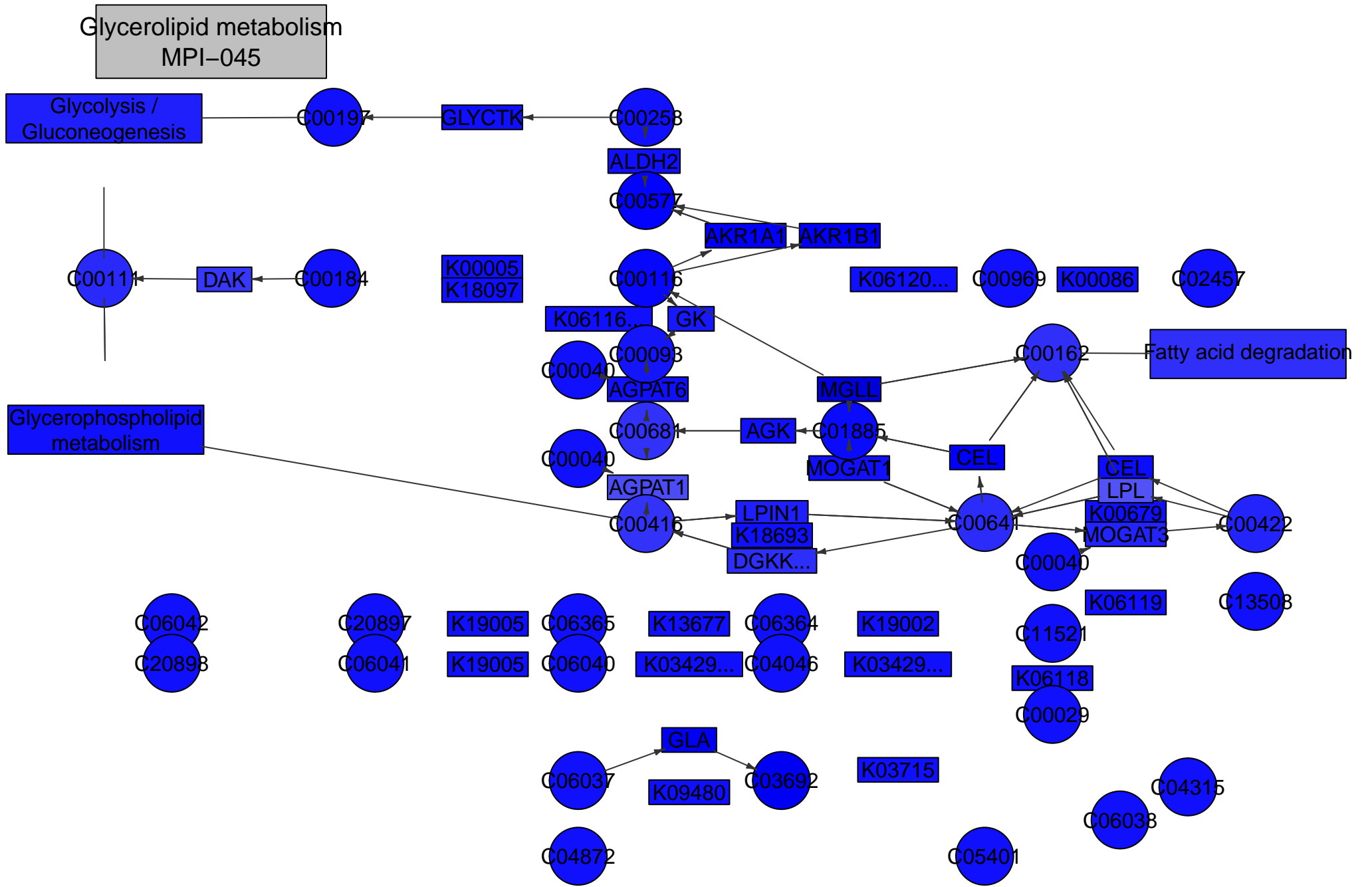
C11521
K06118
C00029

K06119
C00040
C06038

C13508

Fatty acid degradation





Glycerolipid metabolism
MPI-047

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

K06119

K06118

C13508

C06037

C04872

GLA

K09480

C03692

K03715

C05401

C06038

C04315

C00197

GLYCTK

C00258

ALDH2

C00577

AKR1A1

AKR1B1

C00116

K06120...

C00969

K00086

C02457

K06116...

C00098

C00040

AGPAT6

C00681

C00040

AGPAT1

C00416

LPIN1

K18693

DGKK...

MGLL

AGK

MOGAT1

CEL

CEL

LPL

K00679

MOGAT3

C00040

C00029

C00162

C00641

C00040

C00040

C00040

C11521

C00029

Fatty acid degradation

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

Glycerolipid metabolism
MPI-053

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

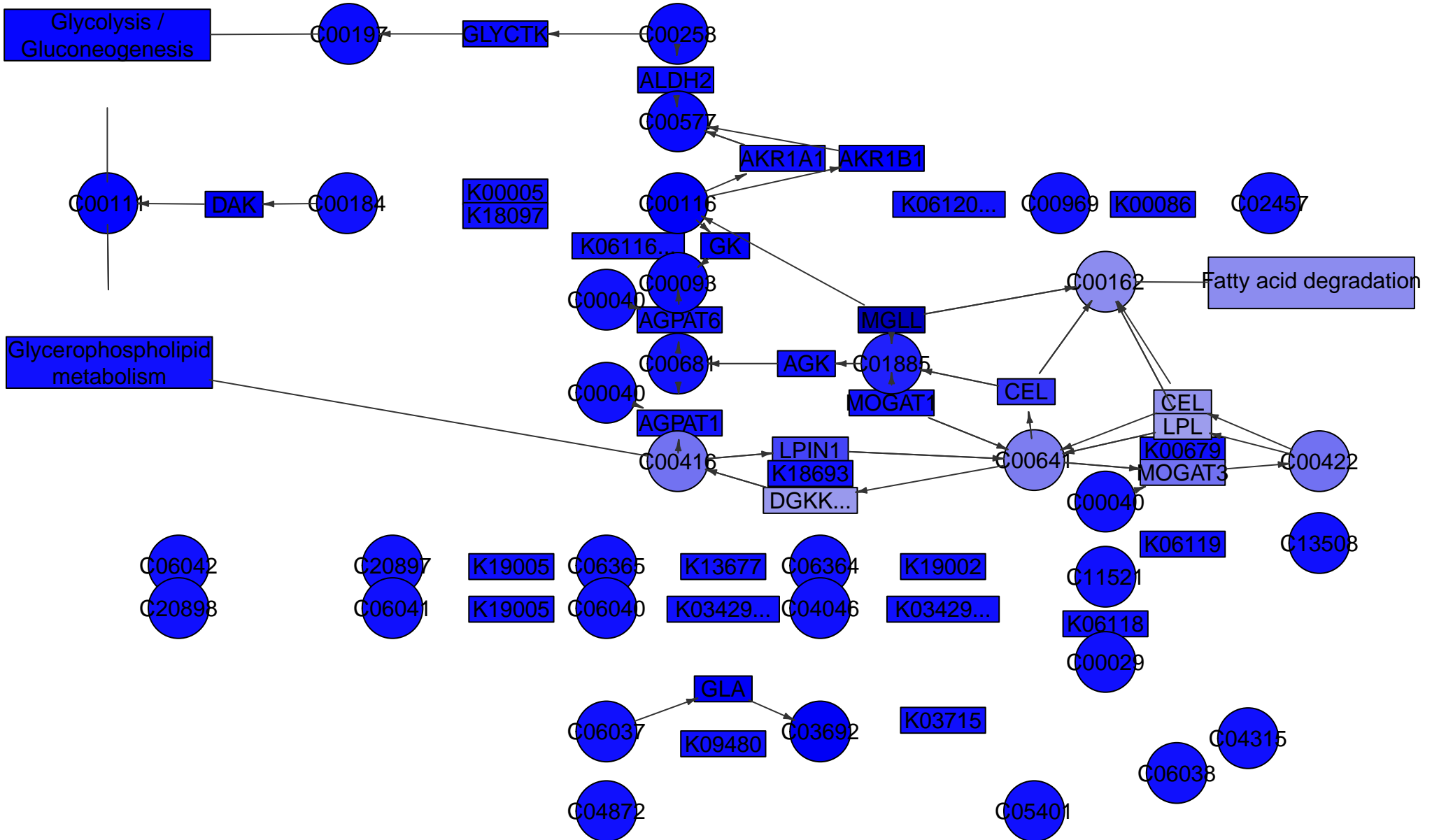
K19002

K03429...

K06119

K06118

C13508



Glycerolipid metabolism
MPI-063

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

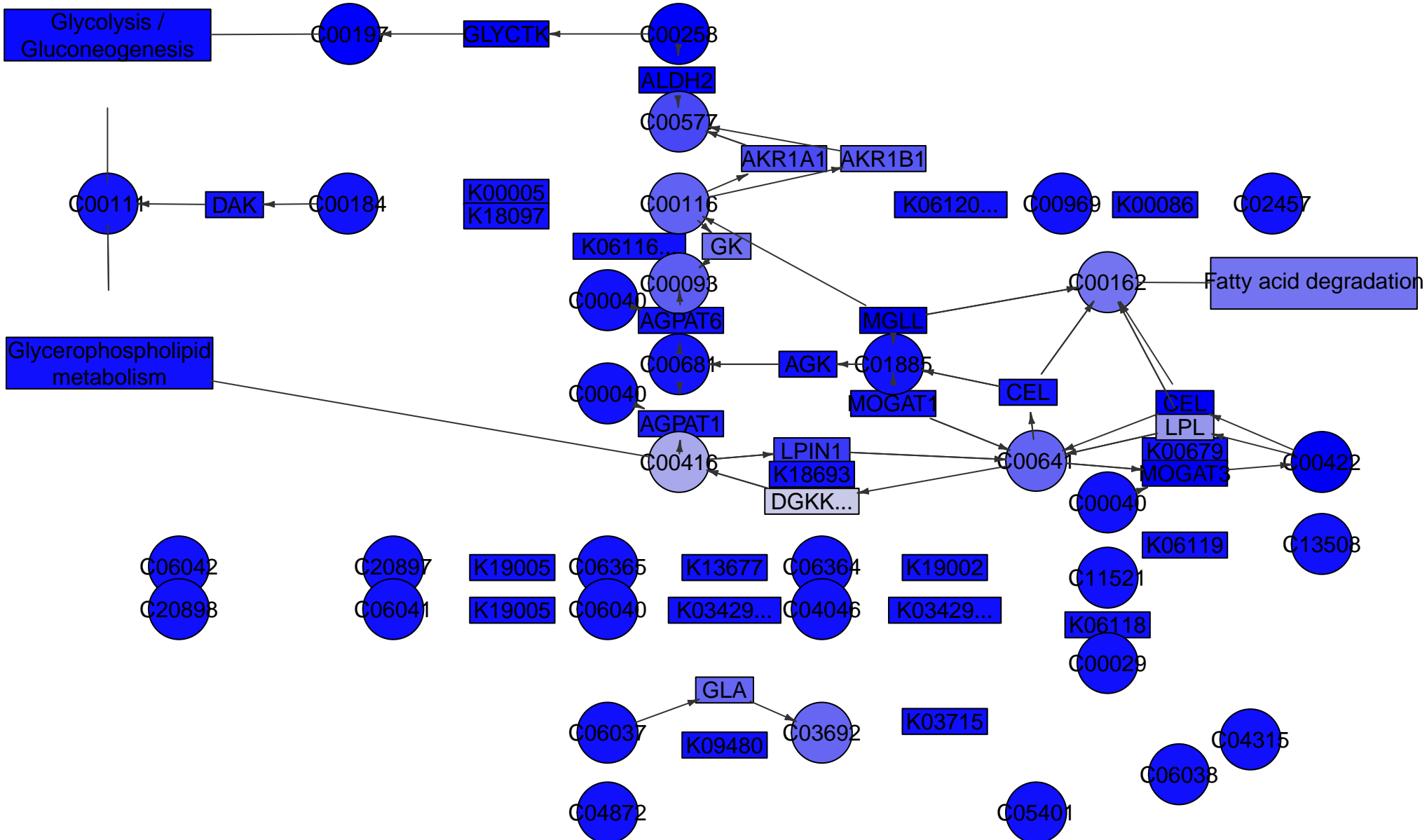
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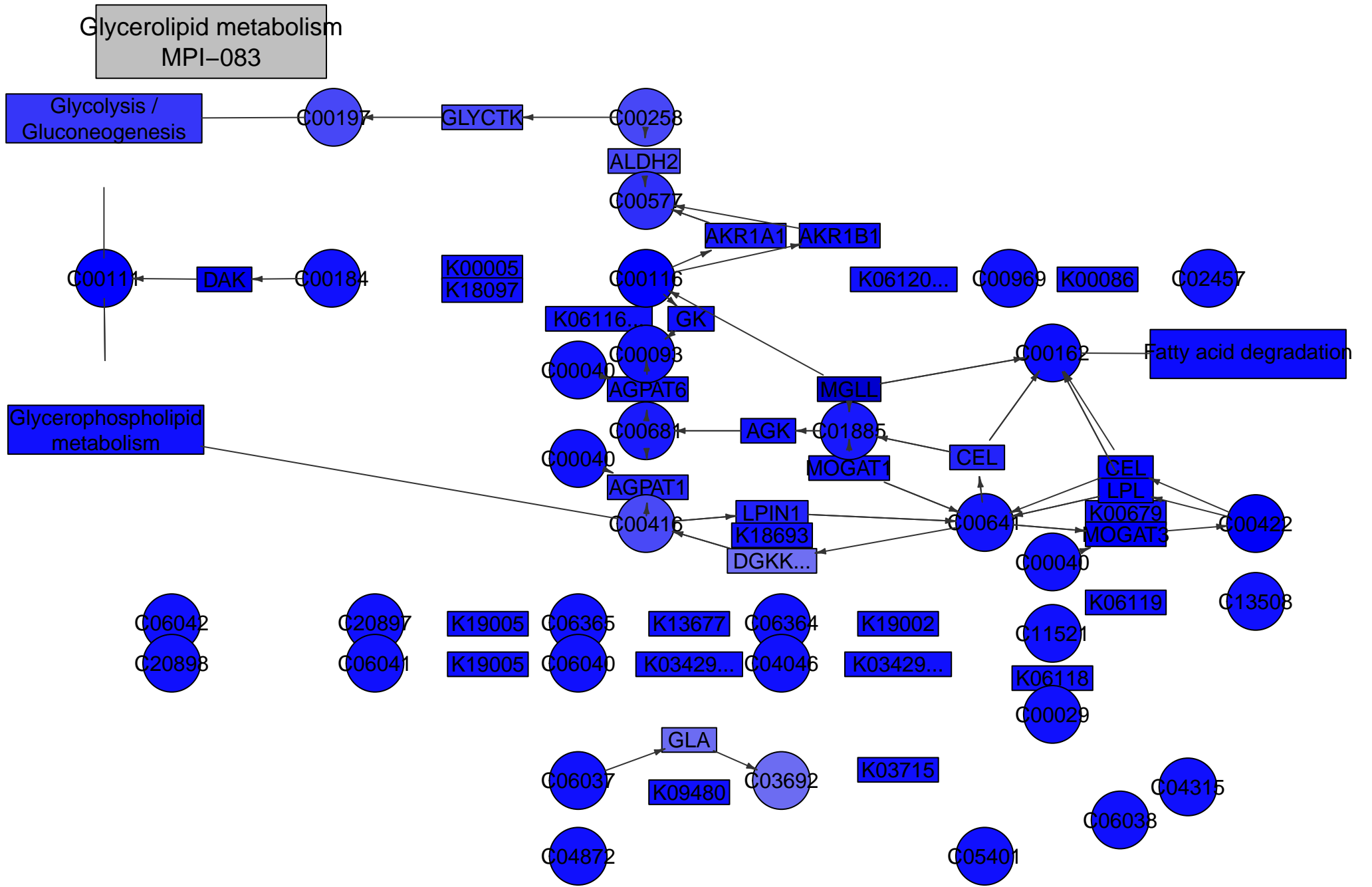
K03715

C05401

C06038

C04315





Glycerolipid metabolism
MPI-088

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

C13508

C06037
C04872

GLA
K09480

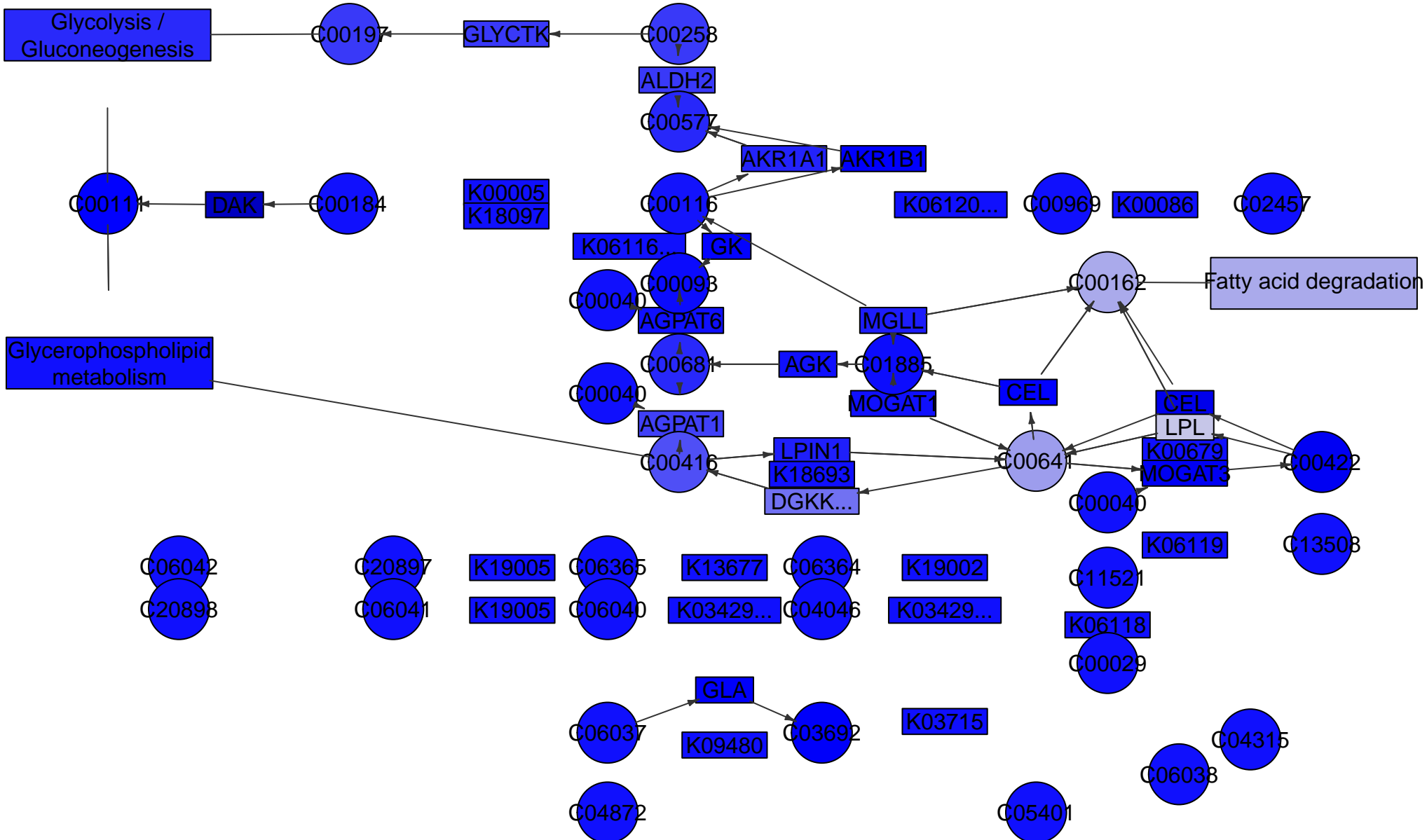
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-100

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C00040
C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

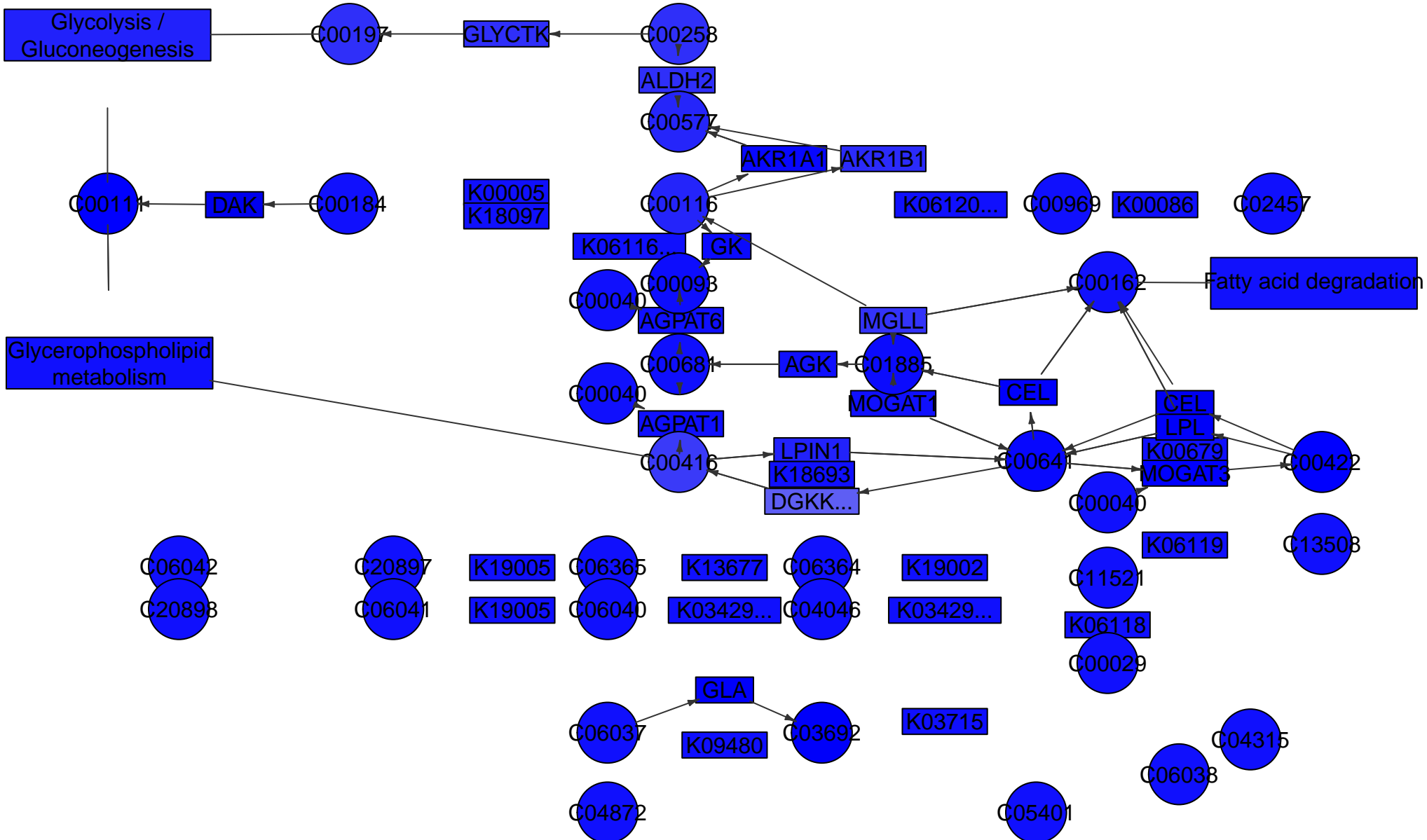
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-105

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

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K06119

K06118

C13508

C06037

C04872

GLA

K09480

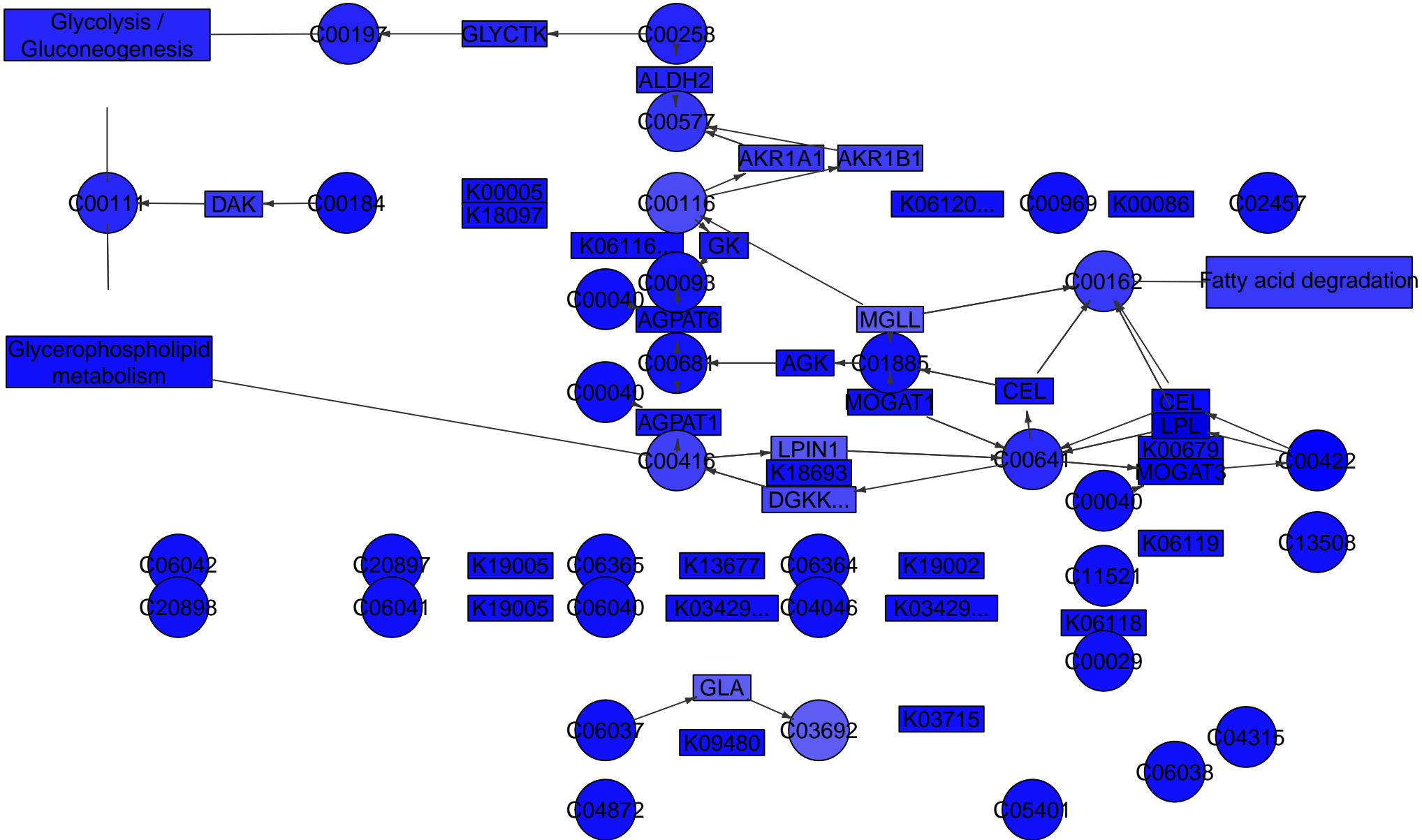
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-108

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

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K06119

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K06118

C00029

C13508

C04315

C06038

C06037

C04872

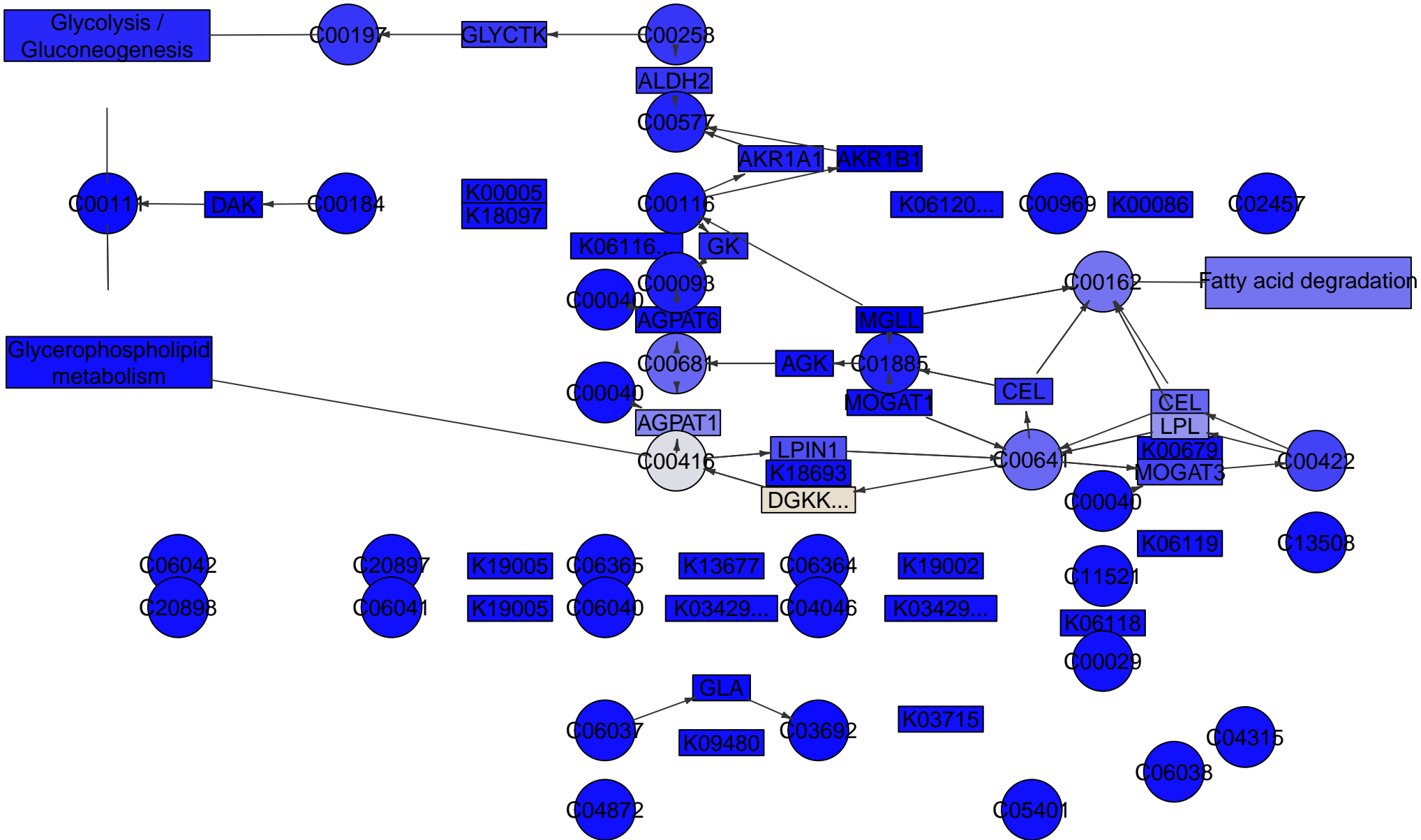
GLA

K09480

C03692

K03715

C05401



Glycerolipid metabolism
MPI-113

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C13508
C06038

C06037
C04872

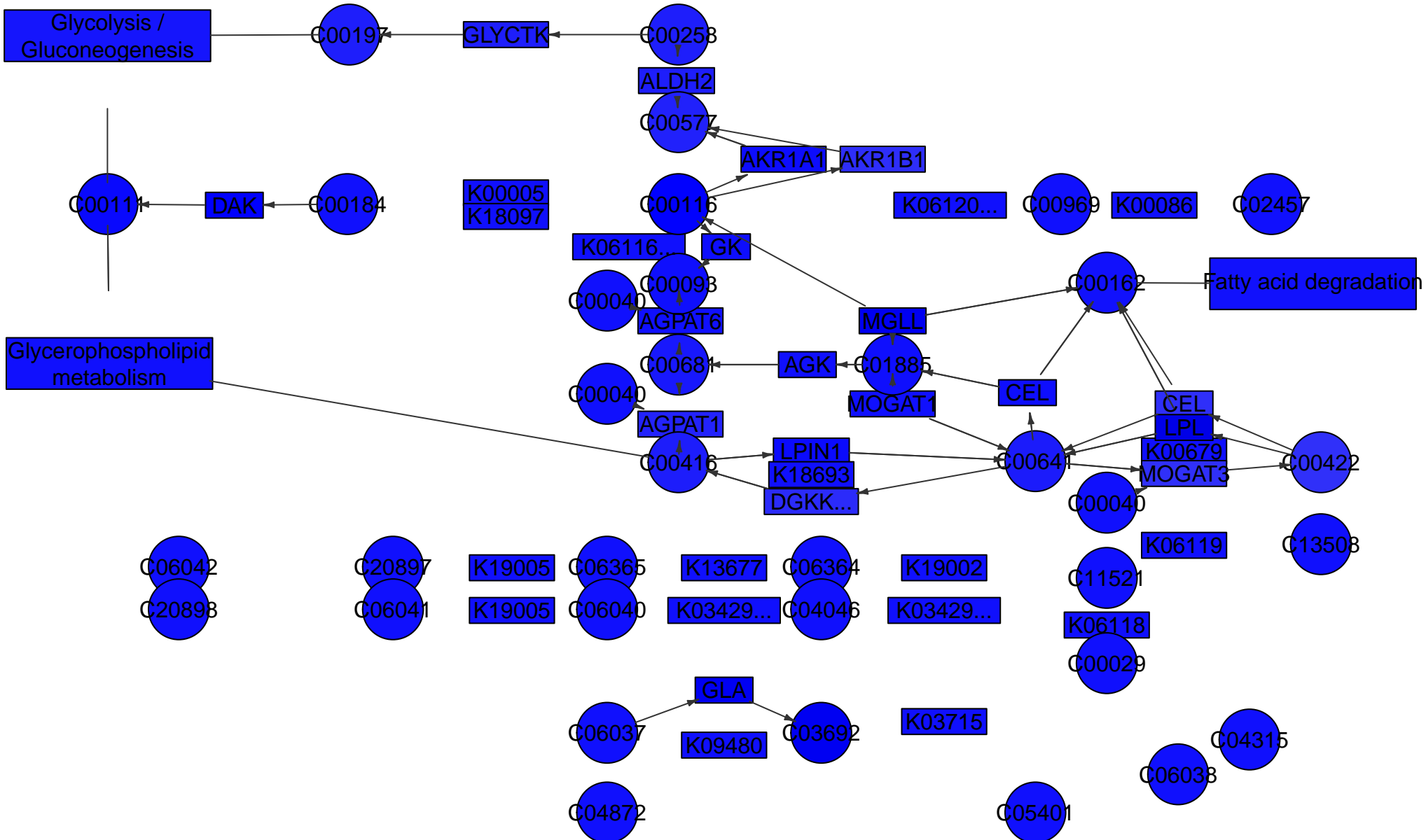
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-115

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

C11521

K06118

C00029

K06119

C00029

C13508

C06037

C04872

GLA

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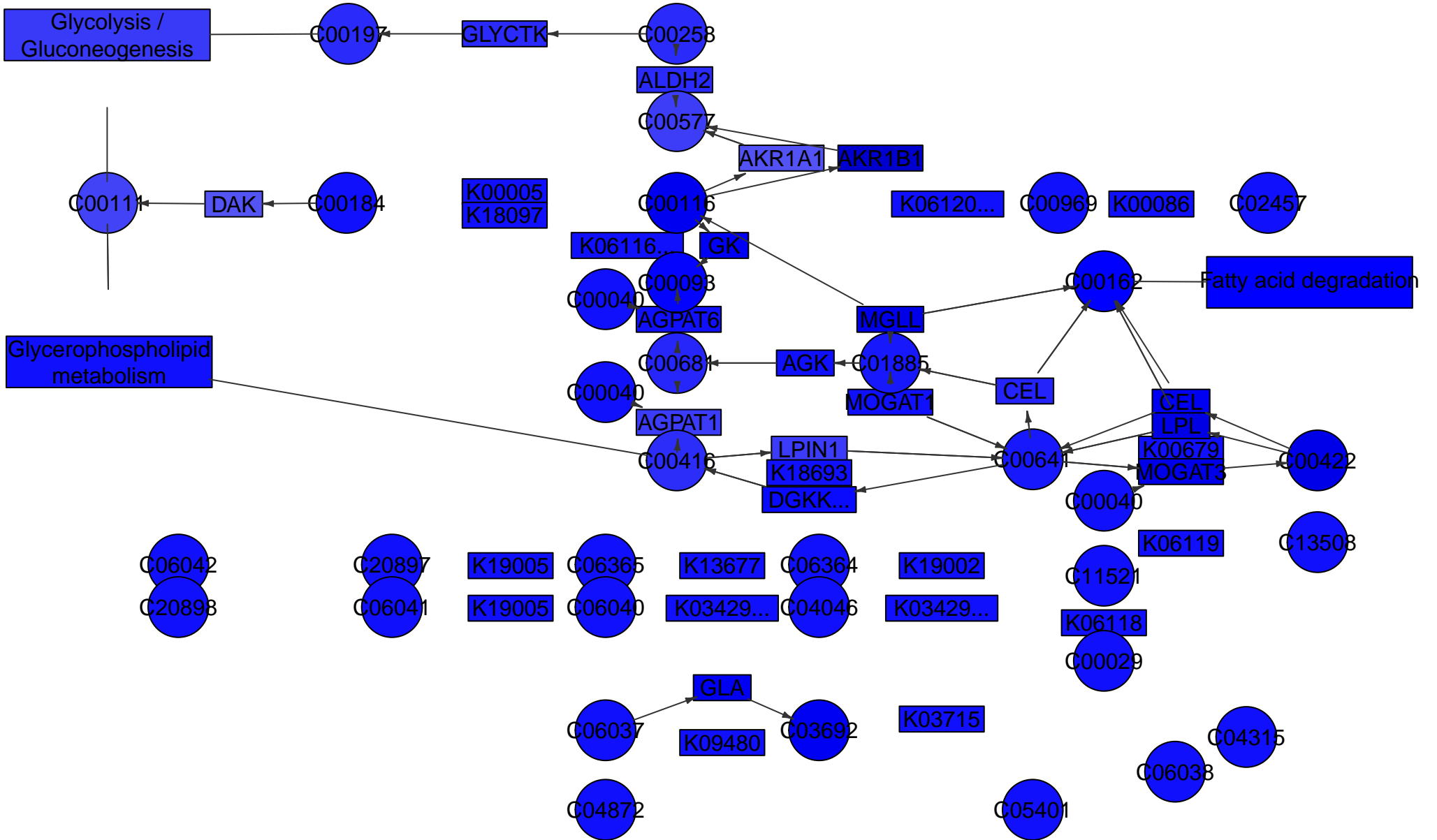
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-118

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C06038

C13508

C06037
C04872

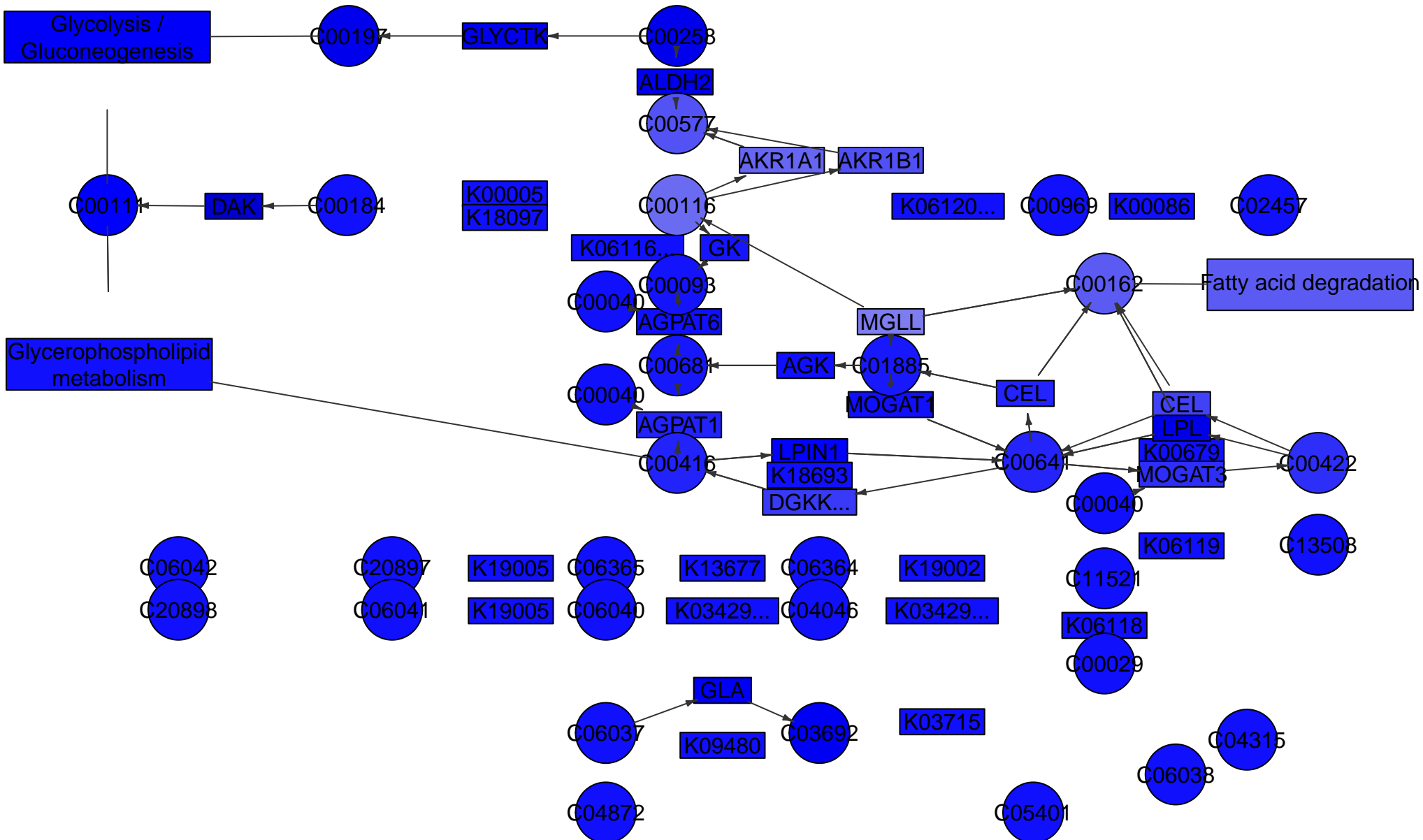
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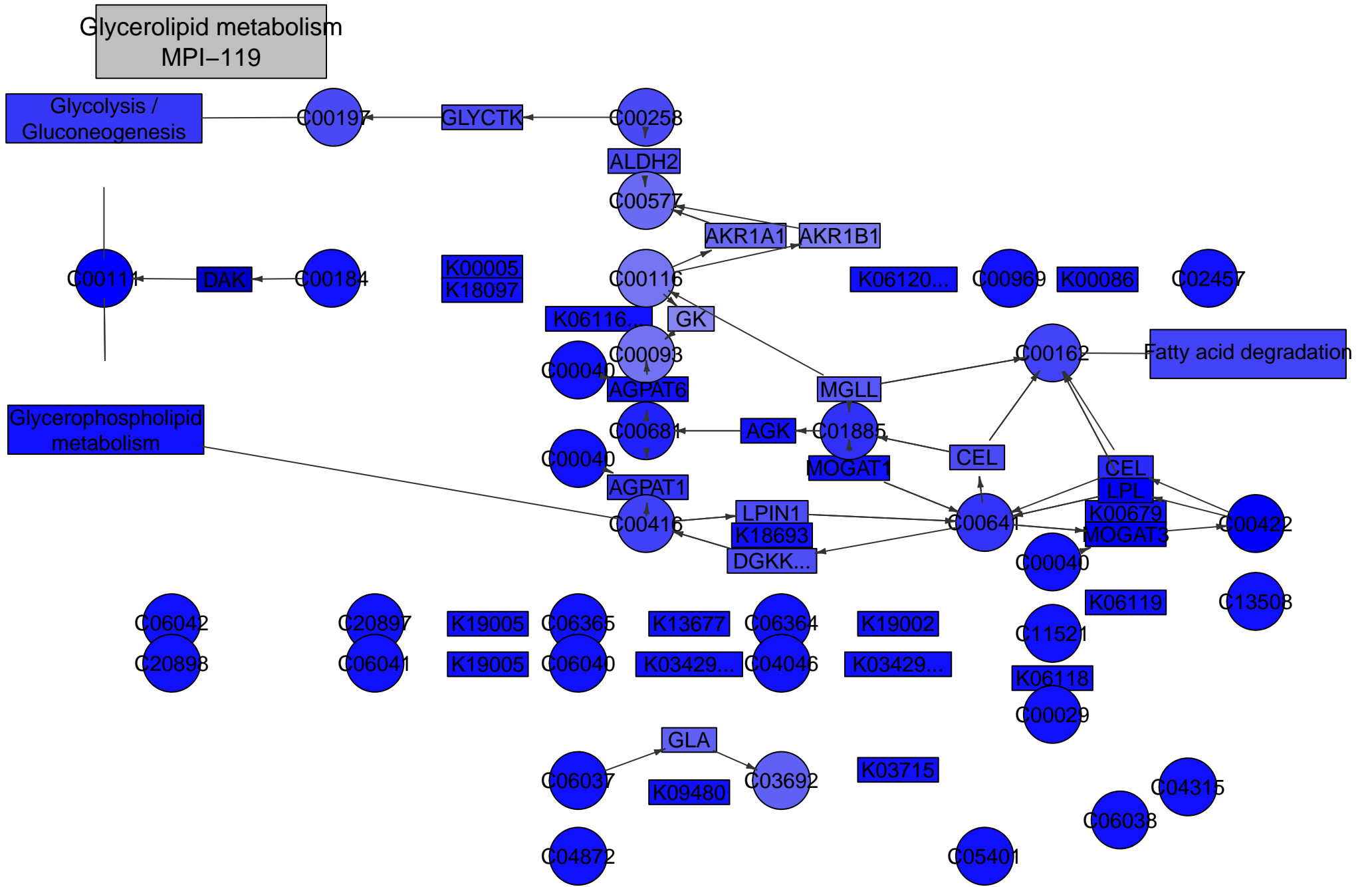
C03692

K03715

C05401

C04315





Glycerolipid metabolism
MPI-122

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C00040
C06038

C13508

C06037
C04872

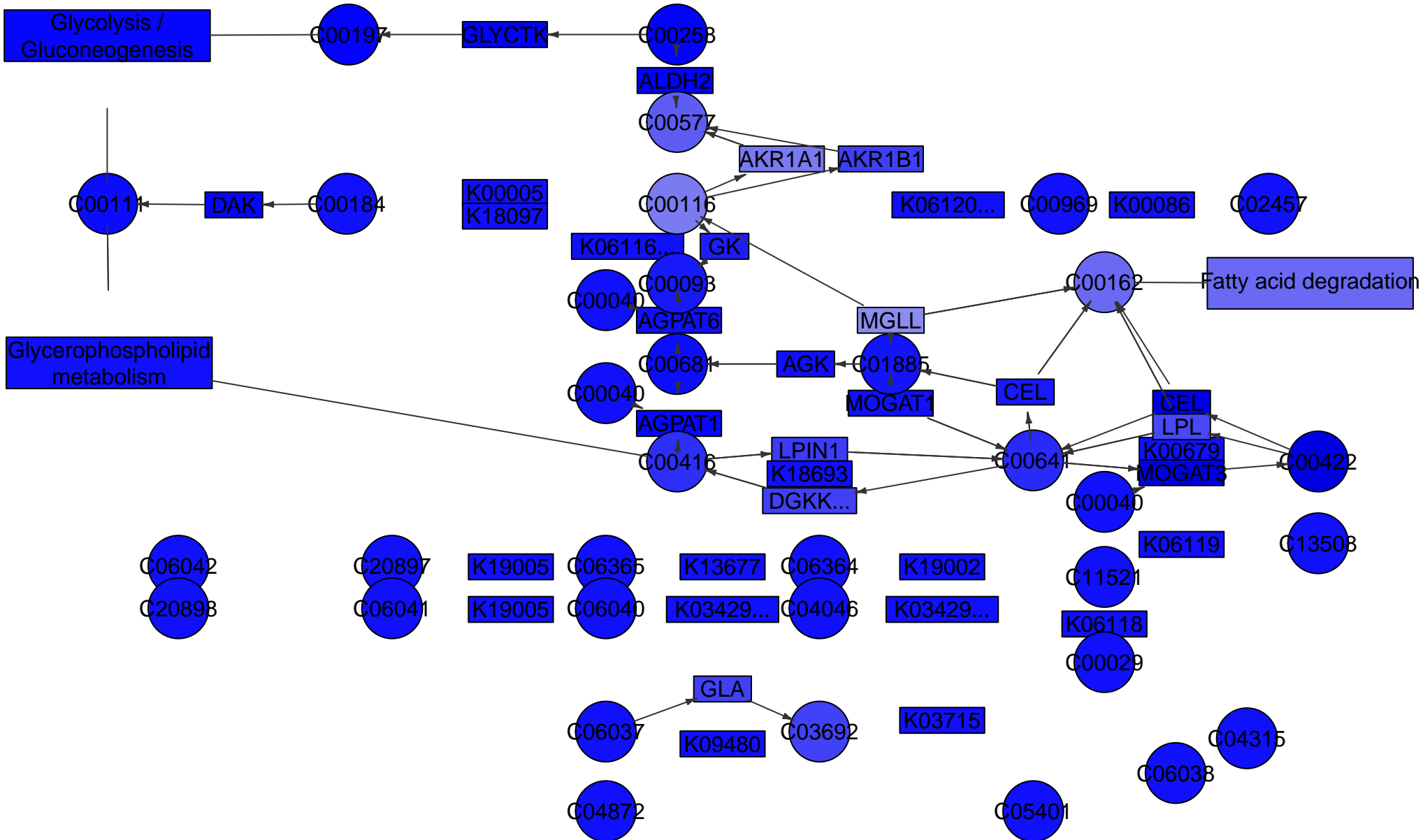
GLA
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C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-127

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

K06116...

GK

K06120...

C00969

K00086

C02457

Glycerophospholipid
metabolism

C00040

C00098
AGPAT6

MGLL

C00162

Fatty acid degradation

C00040

C00681
AGPAT1

AGK

C01885
MOGAT1

CEL

CEL
LPL

K00679
MOGAT3

C00422

C00416

LPIN1
K18693

DGKK...

C00641

C00040

K06119

C13508

C06042

C20897

K19005

C06365

K13677

C06364

K19002

C20898

C06041

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C11521

K06118

C00029

C06037

GLA

K09480

C03692

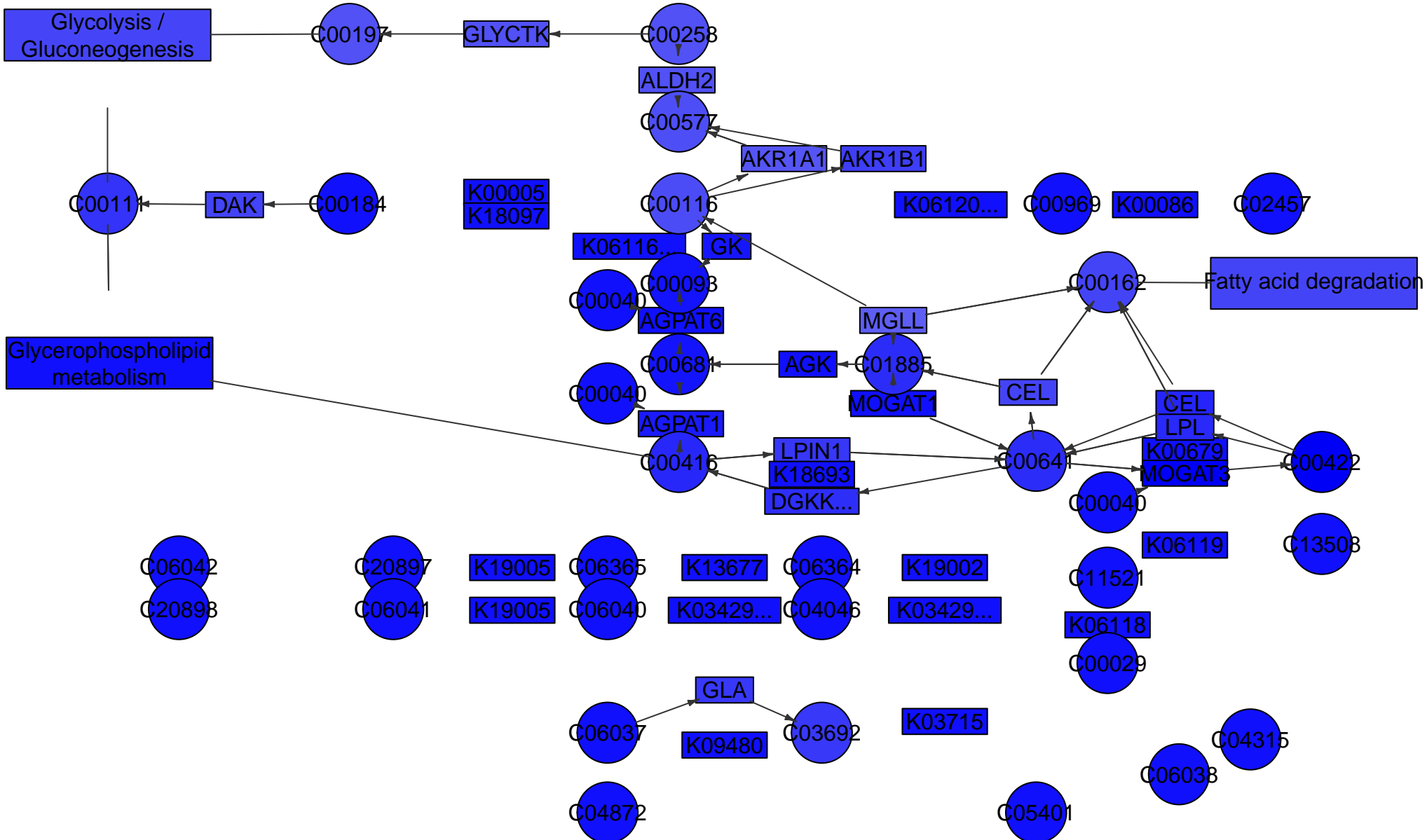
K03715

C04872

C05401

C06038

C04315



Glycerolipid metabolism
MPI-128

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

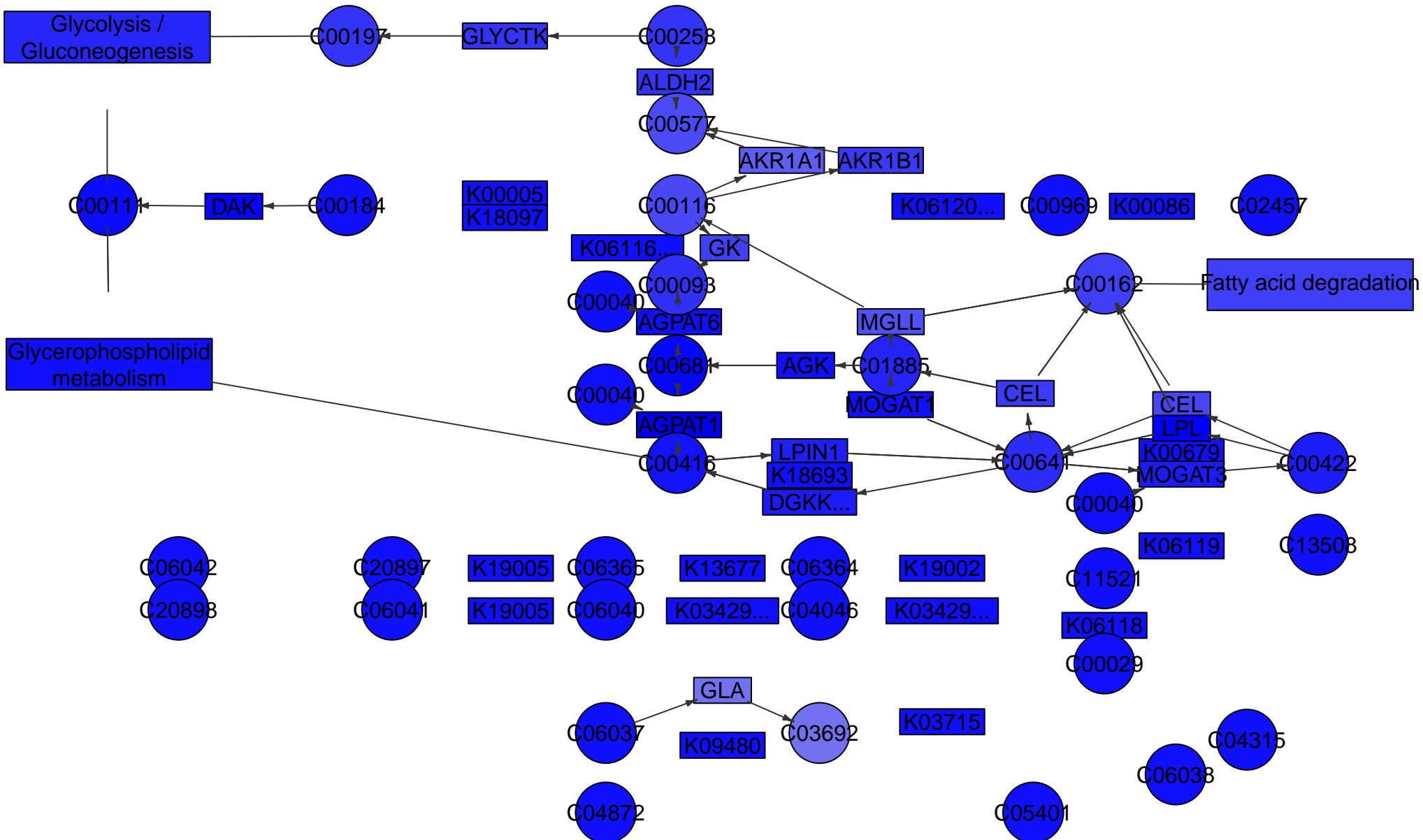
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-129

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C00040
C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

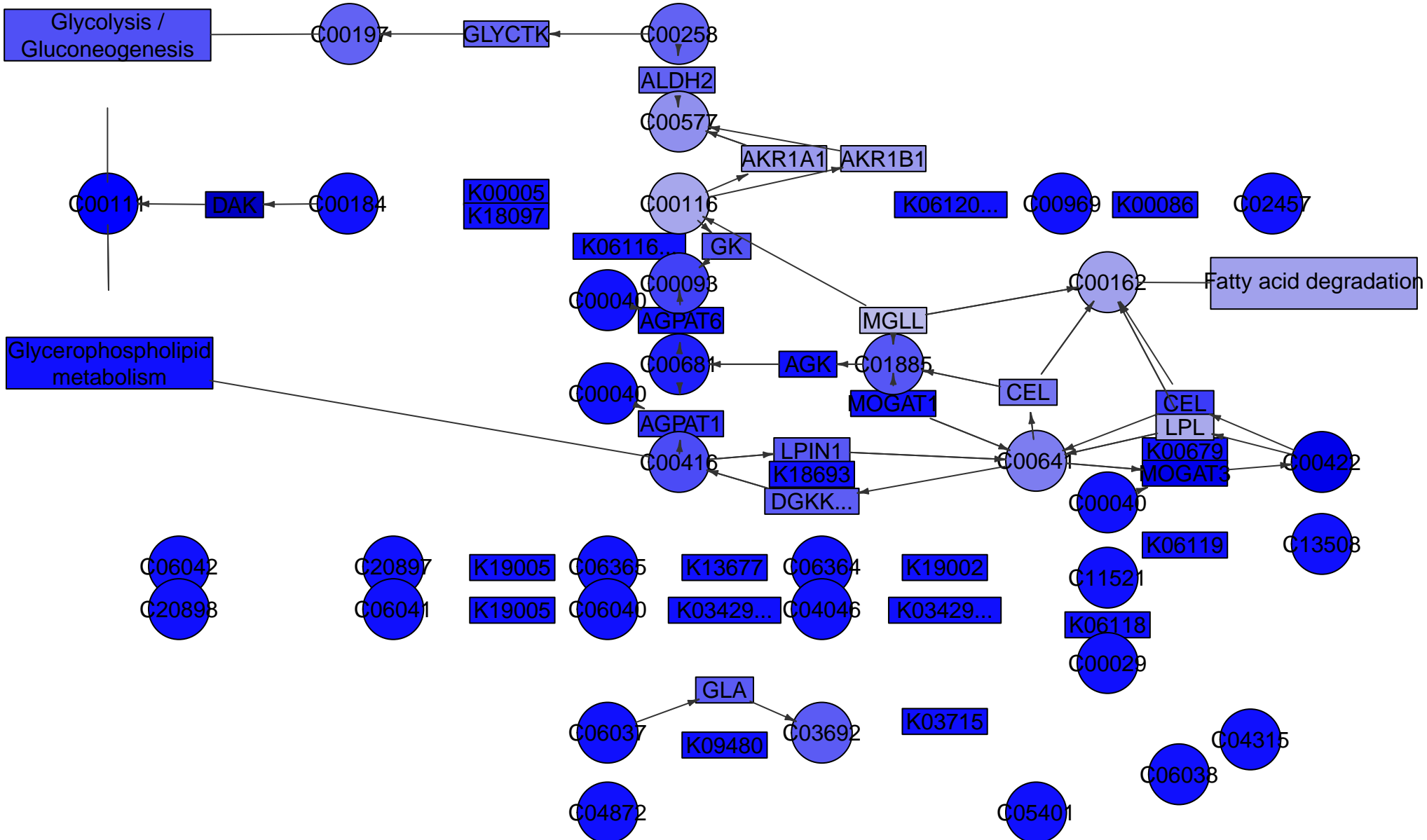
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K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-130

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C00040
C06038

C13508

C06037
C04872

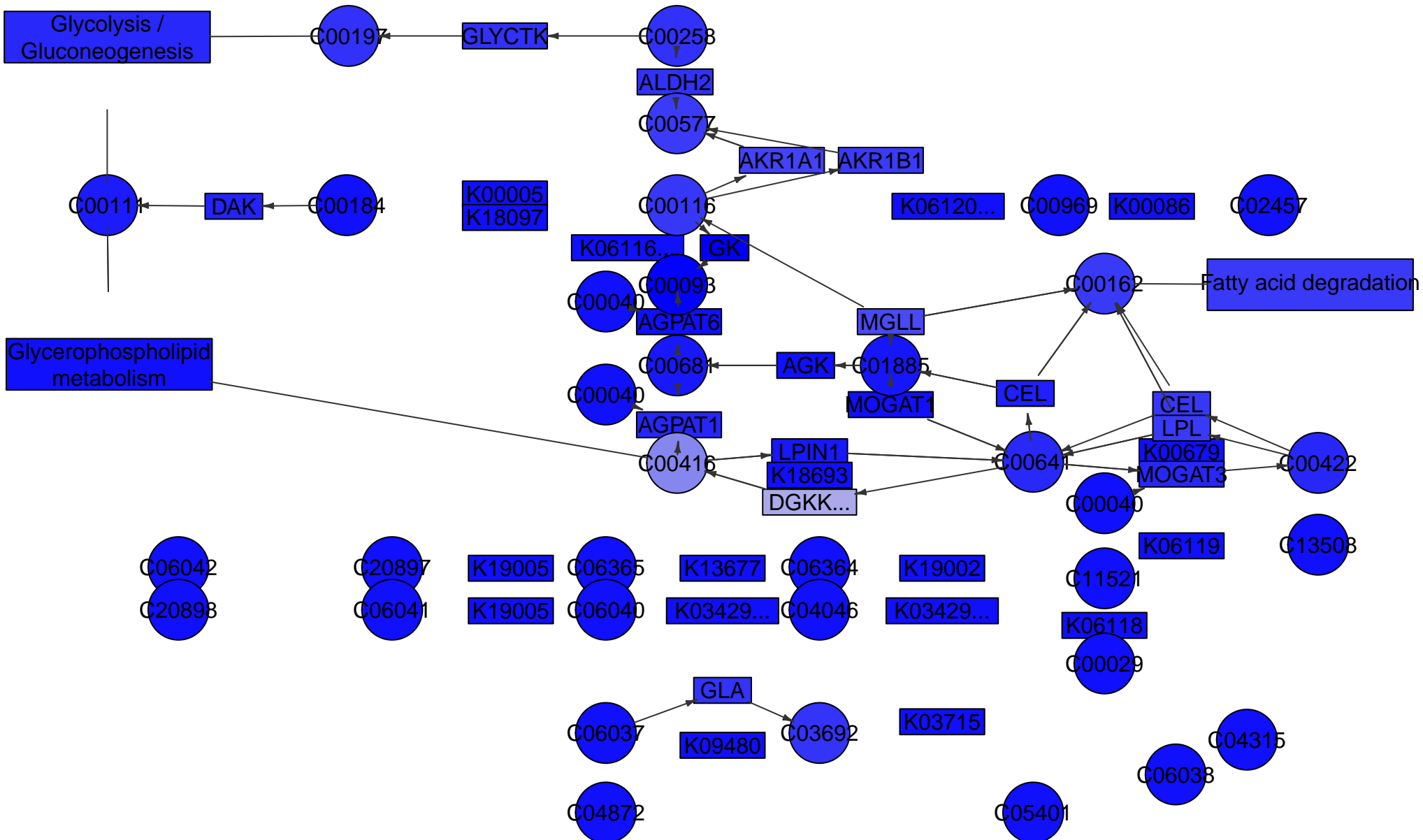
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-132

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C00040
C06038

C13508

C06037
C04872

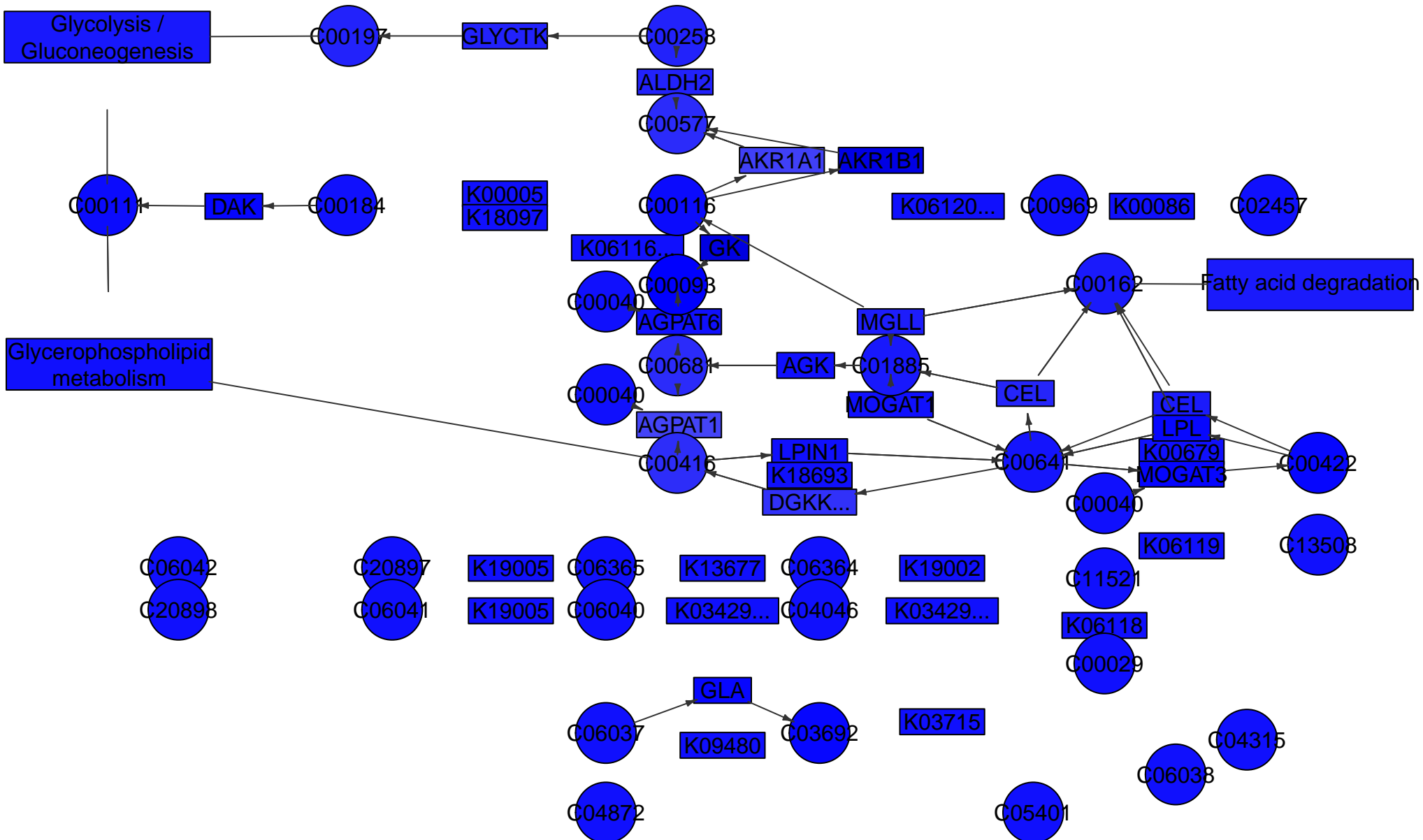
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-133

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

C06038
C04315

K00005
K18097

K06116...

C00040
C00098
AGPAT6

C00040
C00681
AGPAT1

C00416

LPIN1
K18693
DGKK...

C06037
K09480
C03692

C04872

C00258

ALDH2

C00577

C00115

GK

C00098
AGPAT6

C00681
AGPAT1

C00416

C06042
C20898

C20897
C06041

C06037
K09480
C03692

C04872

AKR1A1

AKR1B1

C00115

GK

C00098
AGPAT6

C00681
AGPAT1

C00416

C06042
C20898

C20897
C06041

C06037
K09480
C03692

C04872

K06120...

C00969

K00086

C02457

MGLL

C01885
MOGAT1

C00641

C06042
C20898

C20897
C06041

C06037
K09480
C03692

C04872

CEL

C00641

C00040

C11521
K06118
C00029

C05401

C05401

CEL

LPL
K00679
MOGAT3

C00040

C11521
K06118
C00029

C06038
C04315

C05401

Fatty acid degradation

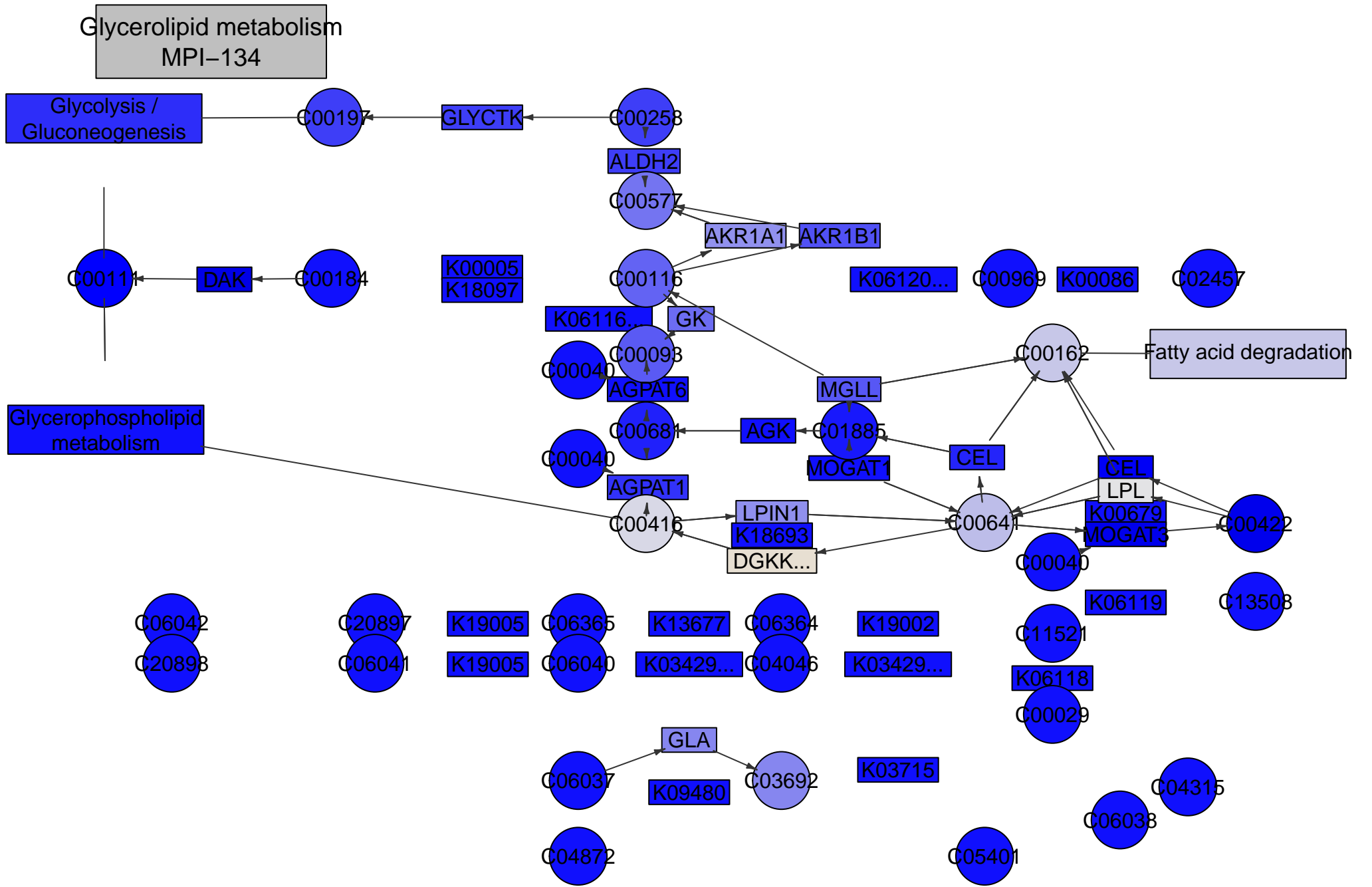
C00422

C13508

C04315

C06038

C05401



Glycerolipid metabolism
MPI-135

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C00040
C06038

C13508

C06037
C04872

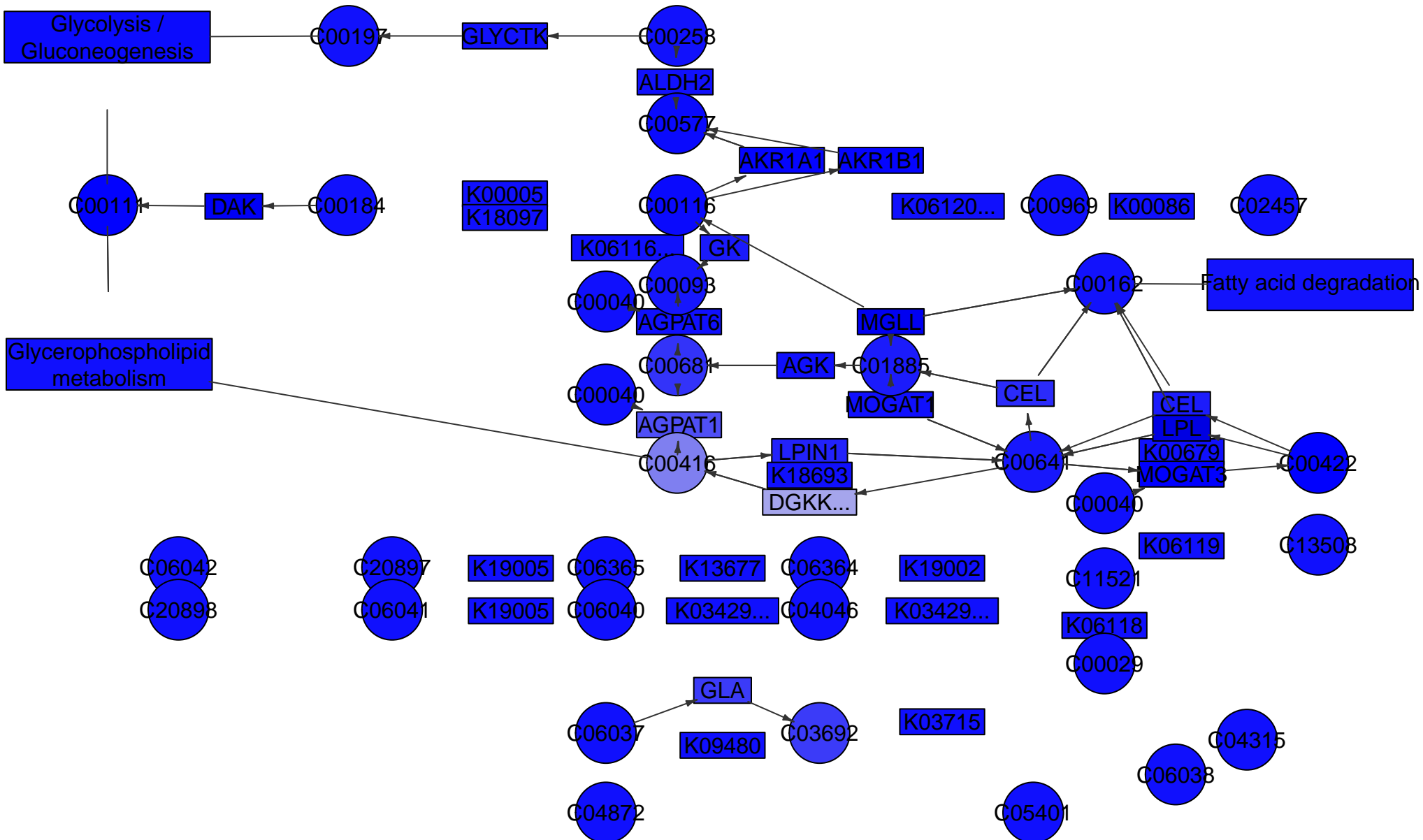
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-136

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

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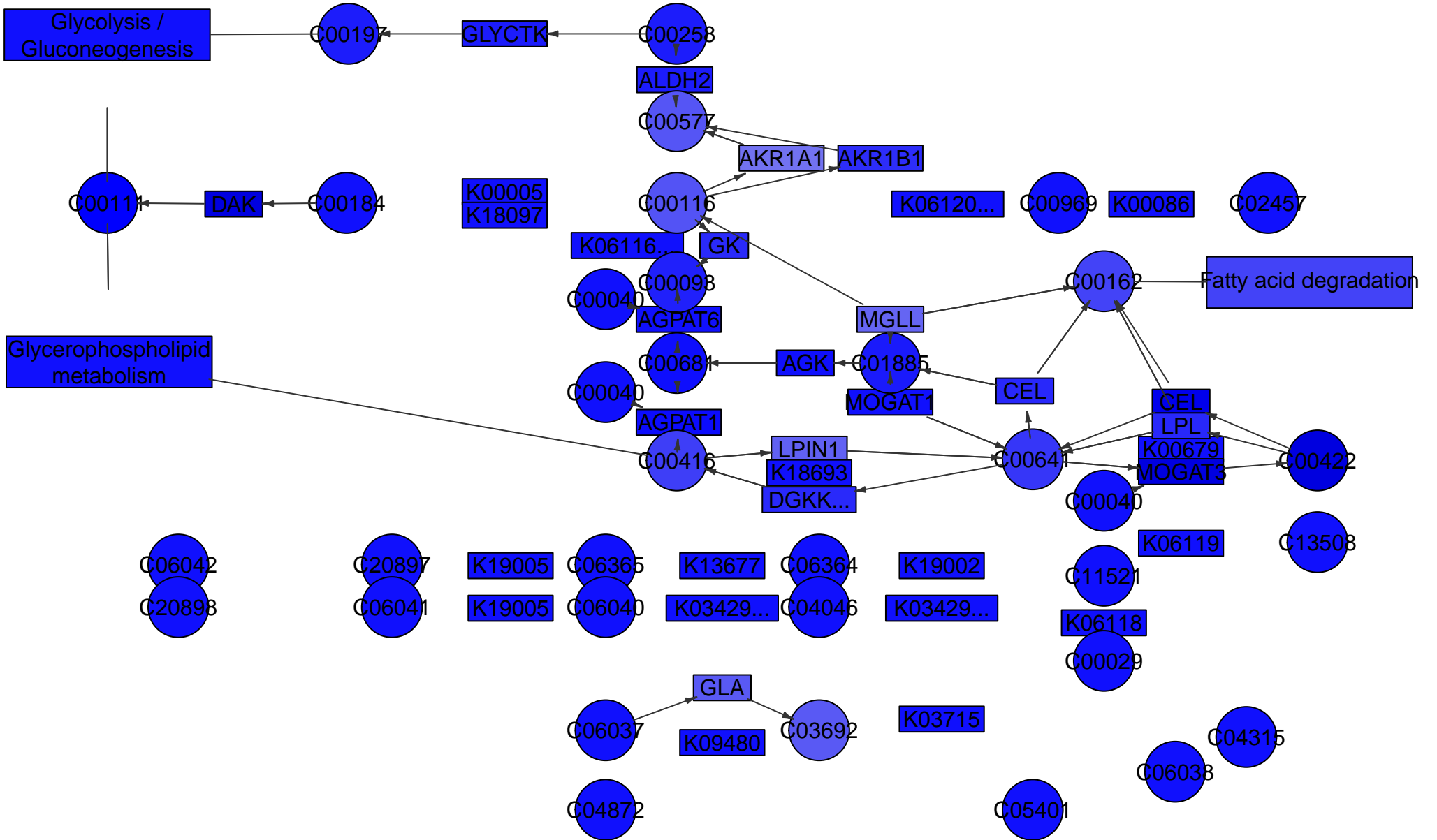
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K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-141

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

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K06118

C13508

C06037
C04872

GLA
K09480

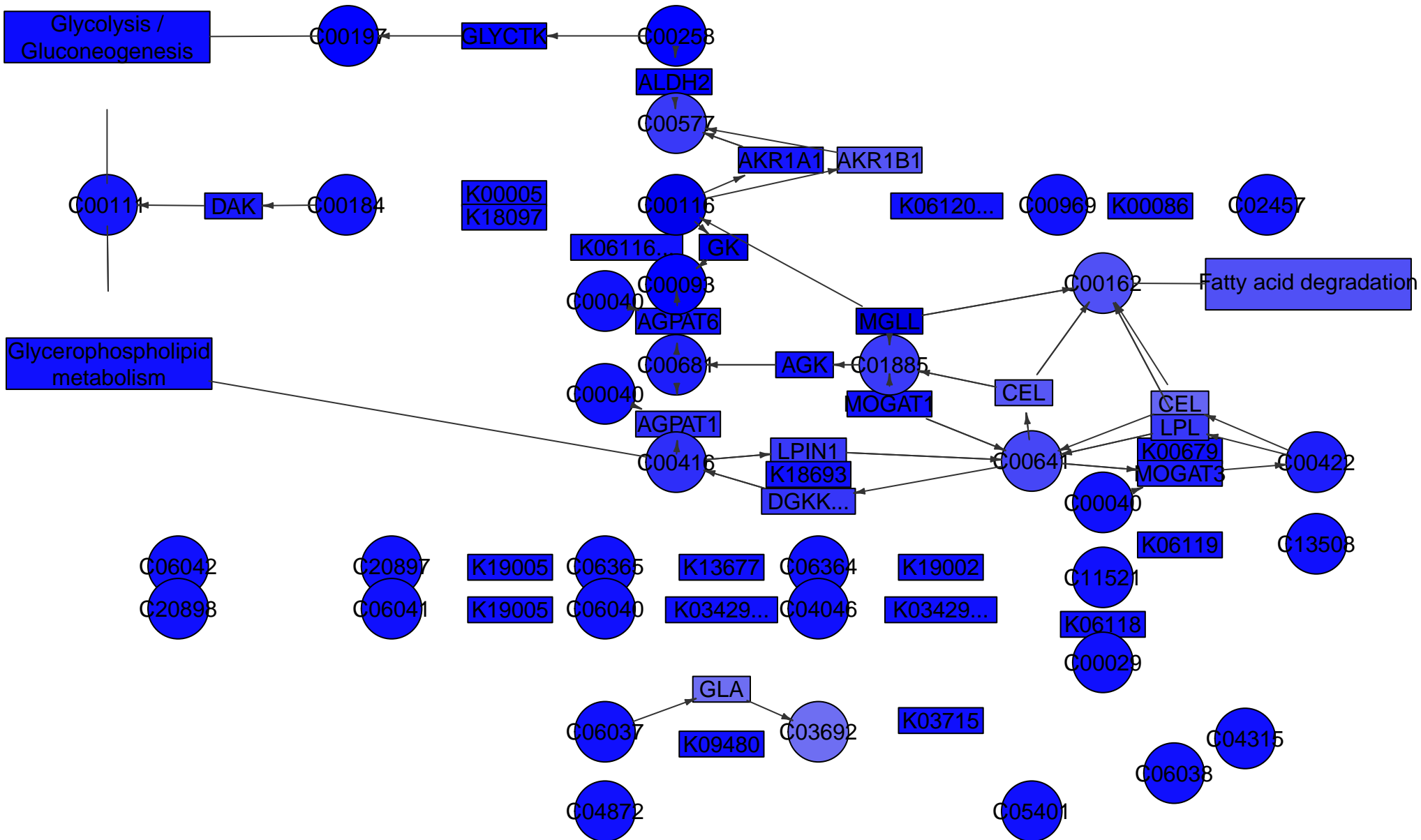
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K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-145

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

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K06119

C00029

C13508

C06037

C04872

GLA

K09480

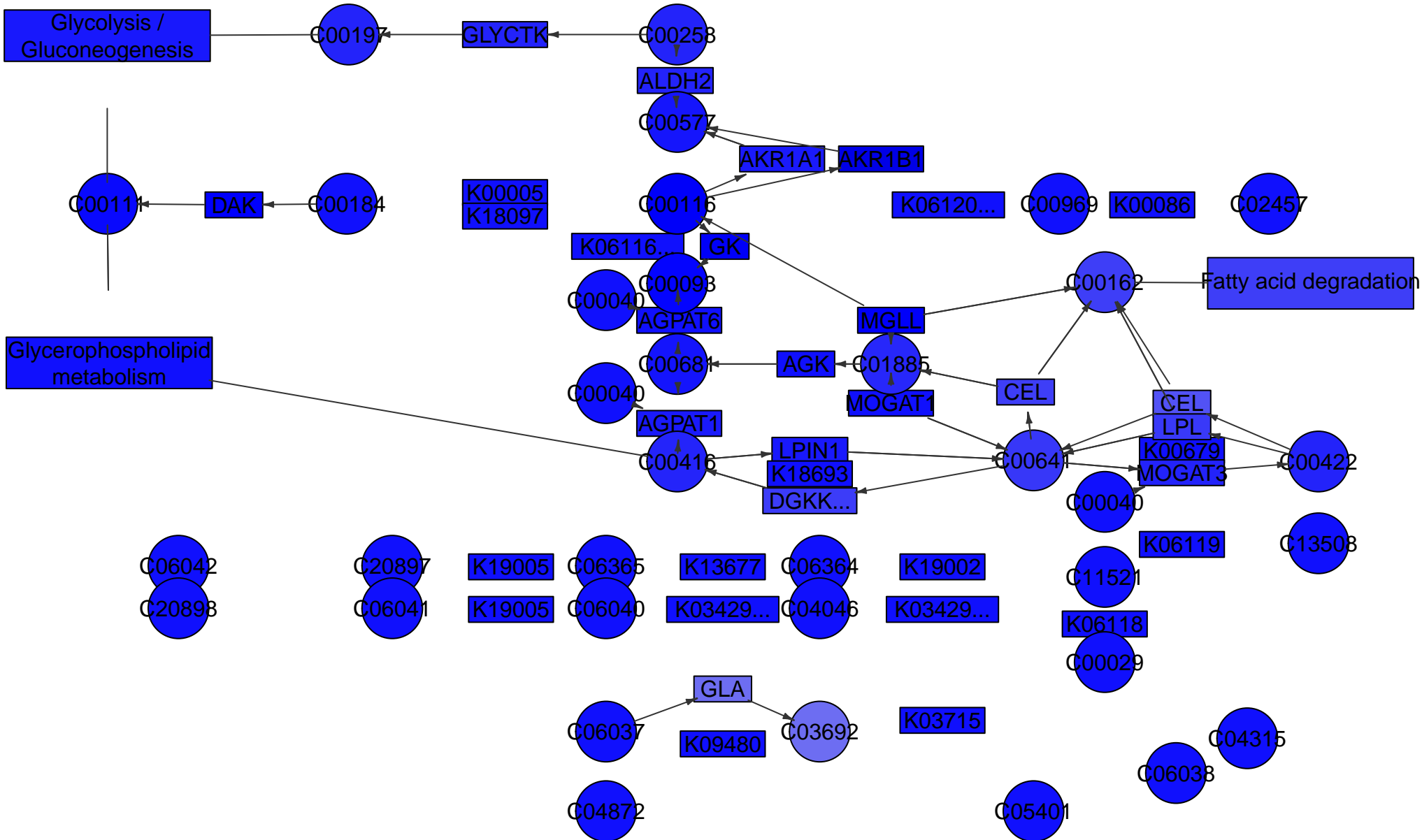
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-149

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
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K03429...

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C13508

C04315

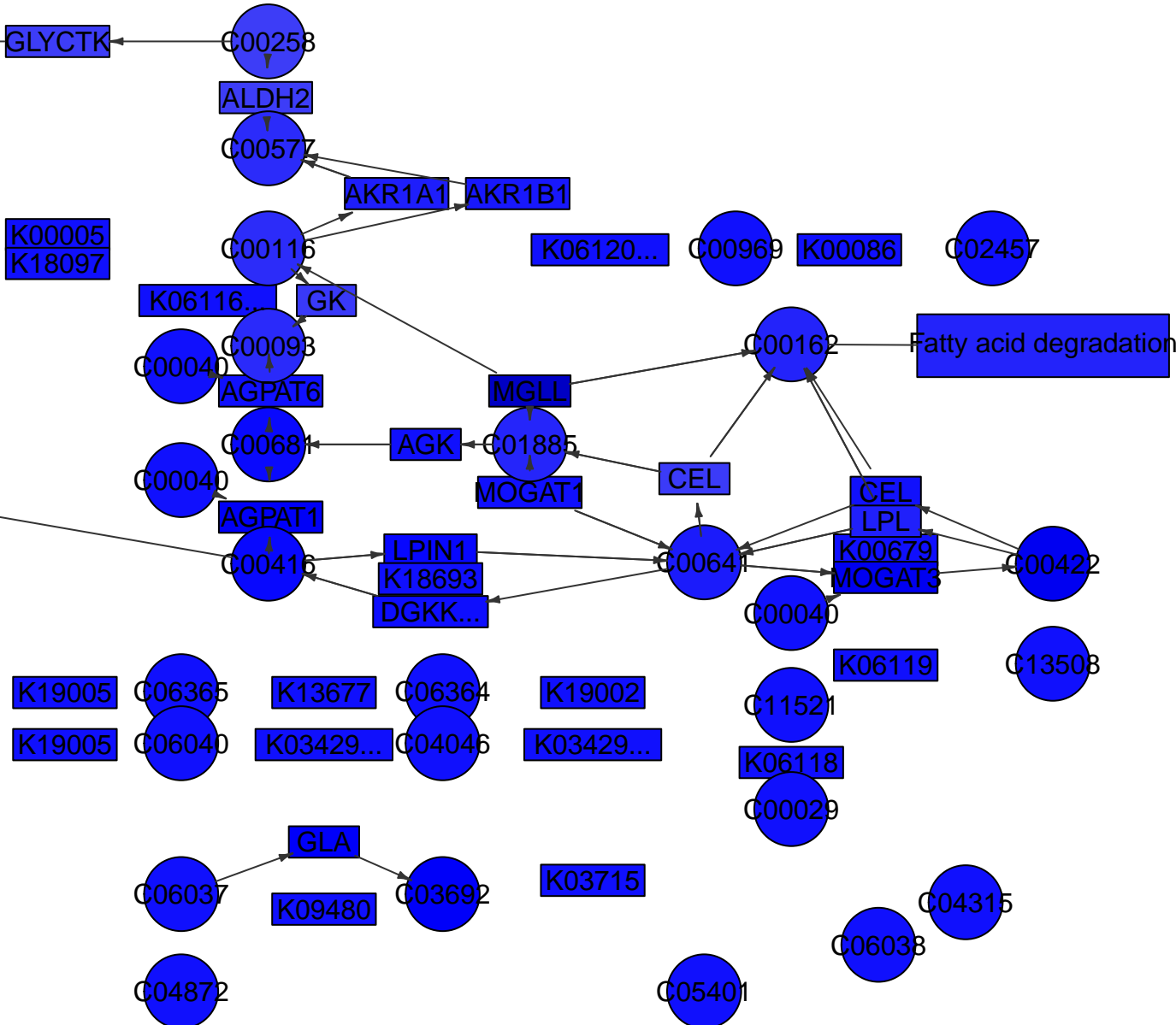
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C04872

GLA
K09480

C03692

K03715

C05401



Glycerolipid metabolism
MPI-150

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

C11521

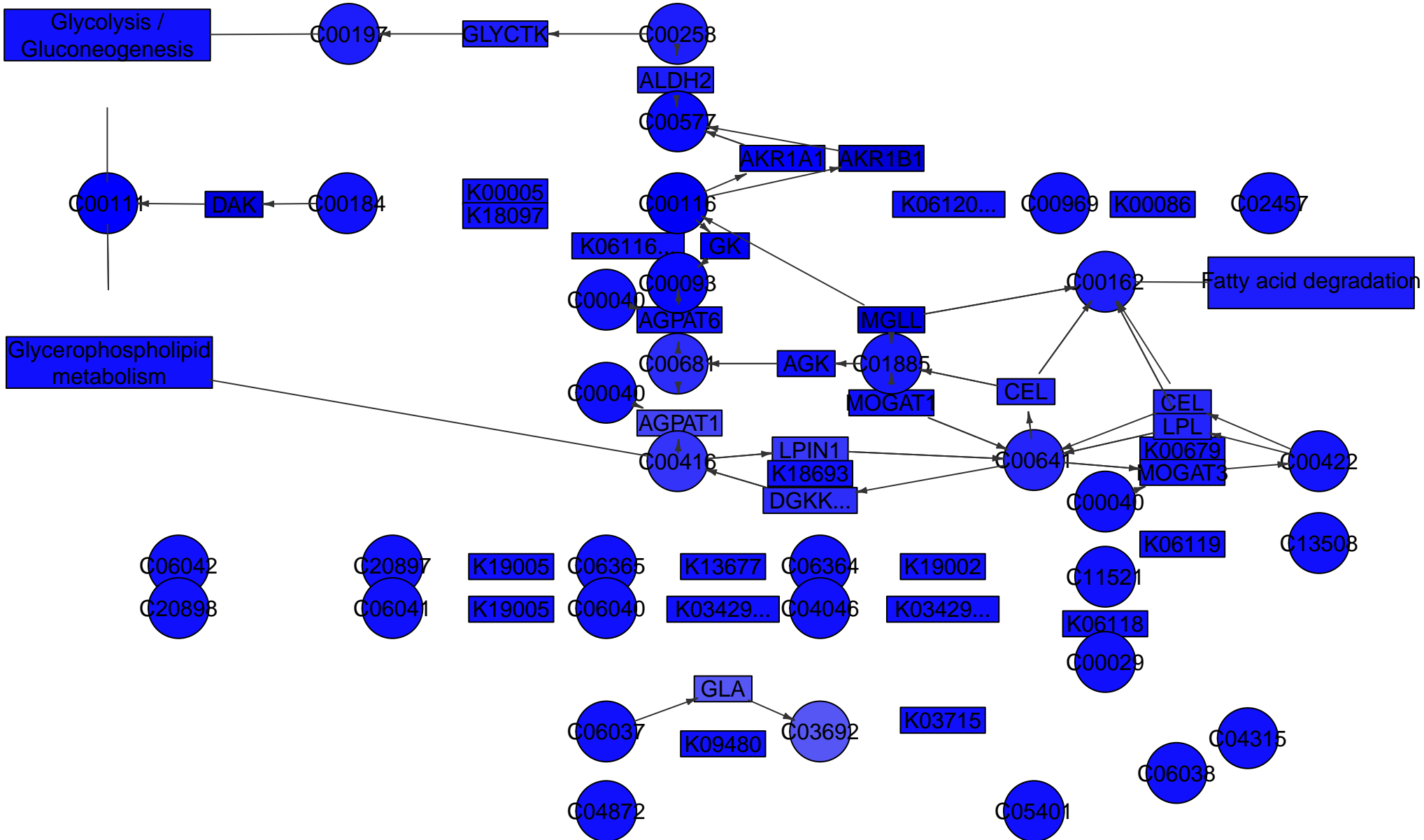
K06118

C00029

C06038

C04315

C13508



Glycerolipid metabolism
MPI-151

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118

K06119
C00029

C13508

C06037
C04872

GLA
K09480

C03692

K03715

C05401

C06038

C04315

C00197

GLYCTK

C00258

ALDH2

C00577

AKR1A1

AKR1B1

C00116

K06116...

GK

K06120...

C00969

K00086

C02457

C00040
C00098

AGPAT6

MGLL

C00162

Fatty acid degradation

C00040
C00681

AGPAT1

AGK

C01885

CEL

CEL

LPL

C00040
C00416

LPIN1

K18693

DGKK...

MOGAT1

C00641

K00679

MOGAT3

C00422

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118

K06119
C00029

C13508

C06037
C04872

GLA
K09480

C03692

K03715

C05401

C06038

C04315

Glycerolipid metabolism
MPI-152

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

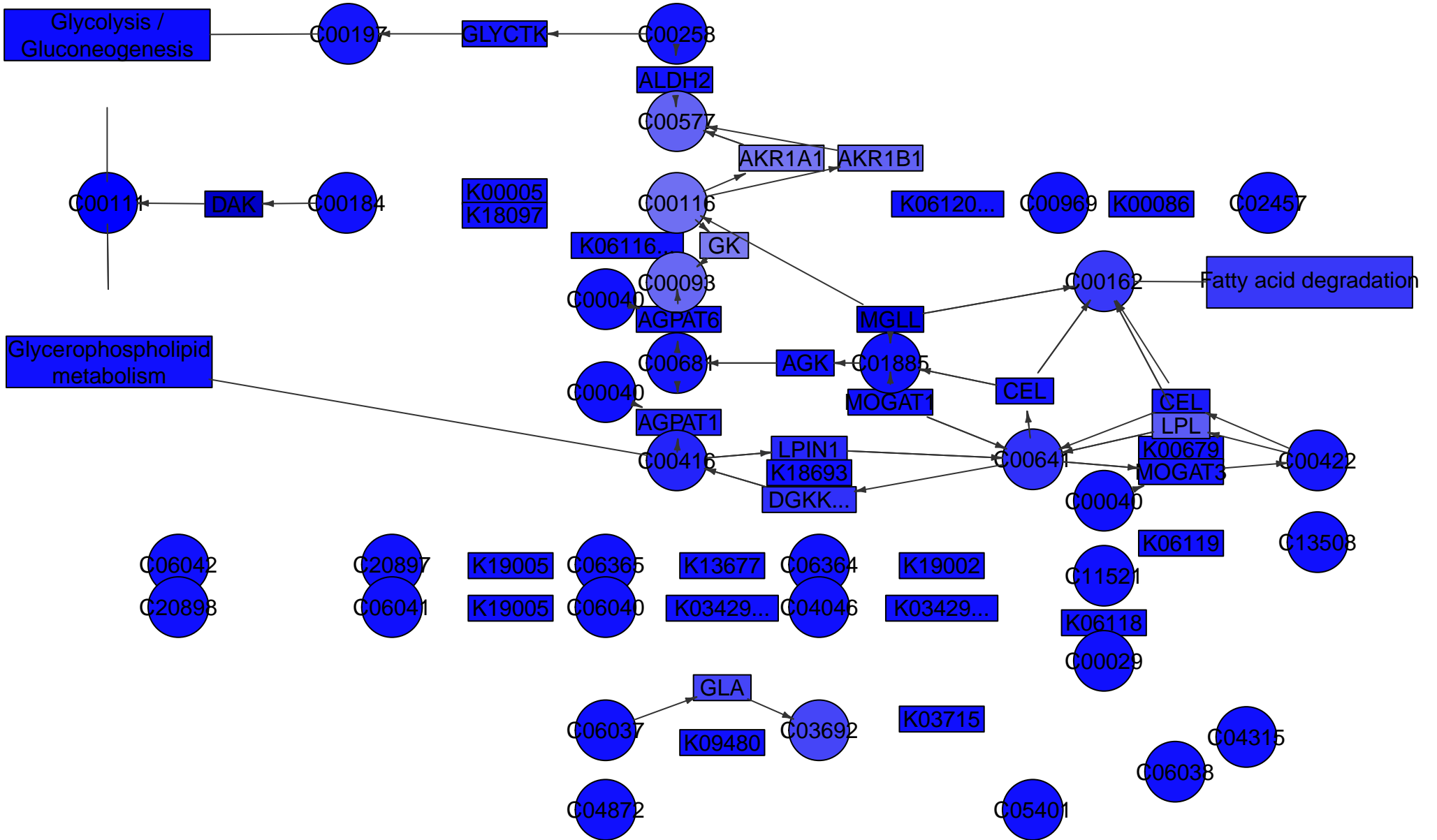
K19002

K03429...

K06119

K06118

C13508



Glycerolipid metabolism
MPI-153

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C00040
C06038

C13508

C06037
C04872

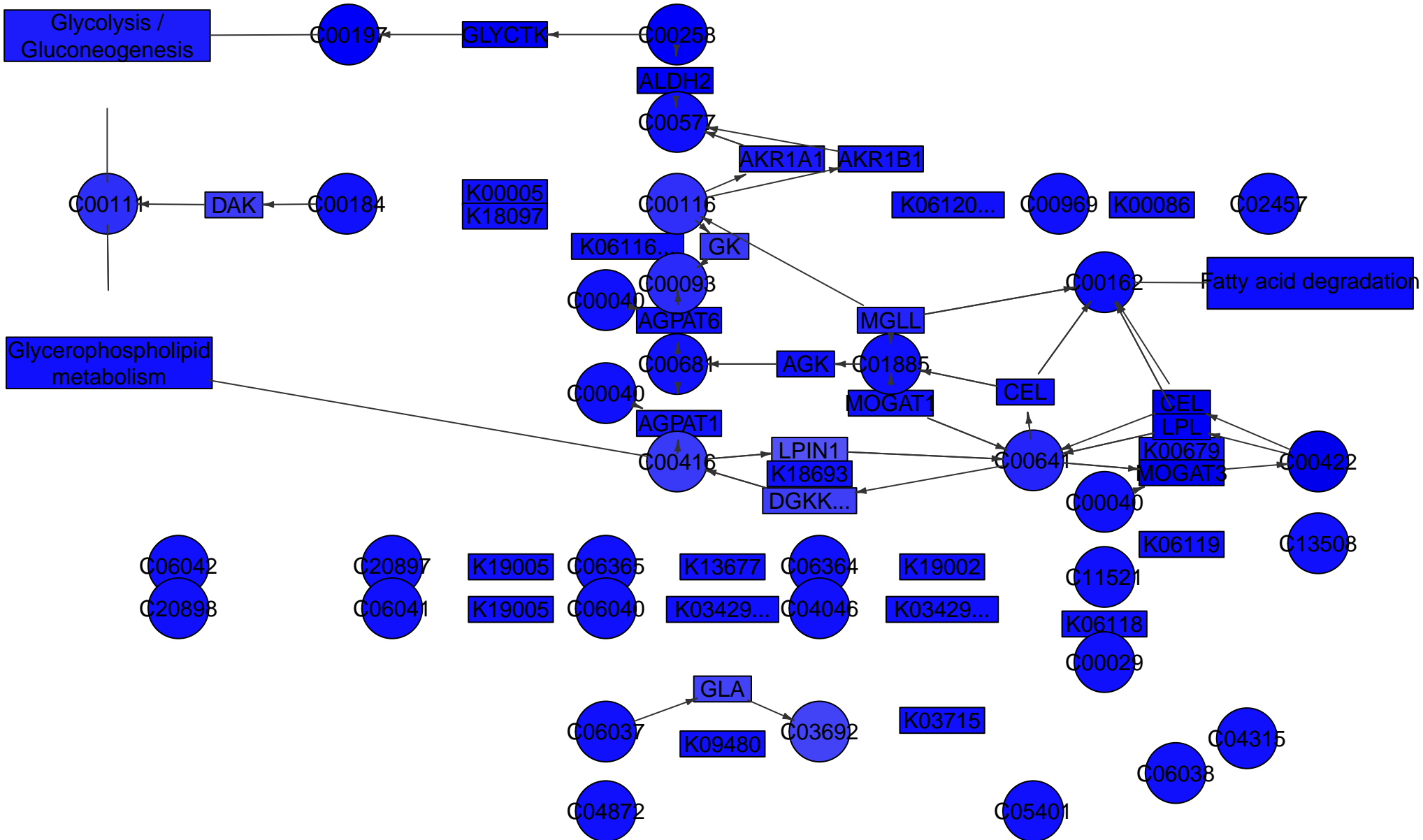
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-154

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C00040
C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

C03692

K03715

C05401

C06038

C04315

C00197

GLYCTK

C00258

ALDH2

C00577

AKR1A1

AKR1B1

C00116

K06120...

C00969

K00086

C02457

C00040
C00098

AGPAT6

GK

MGLL

C00162

Fatty acid degradation

C00040
C00681

AGPAT1

AGK

C01885

MOGAT1

CEL

CEL
LPL

C00416

LPIN1
K18693

DGKK...

C00641

K00679
MOGAT3

C00422

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C00040
C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

C03692

K03715

C05401

C06038

C04315

Glycerolipid metabolism
MPI-155

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

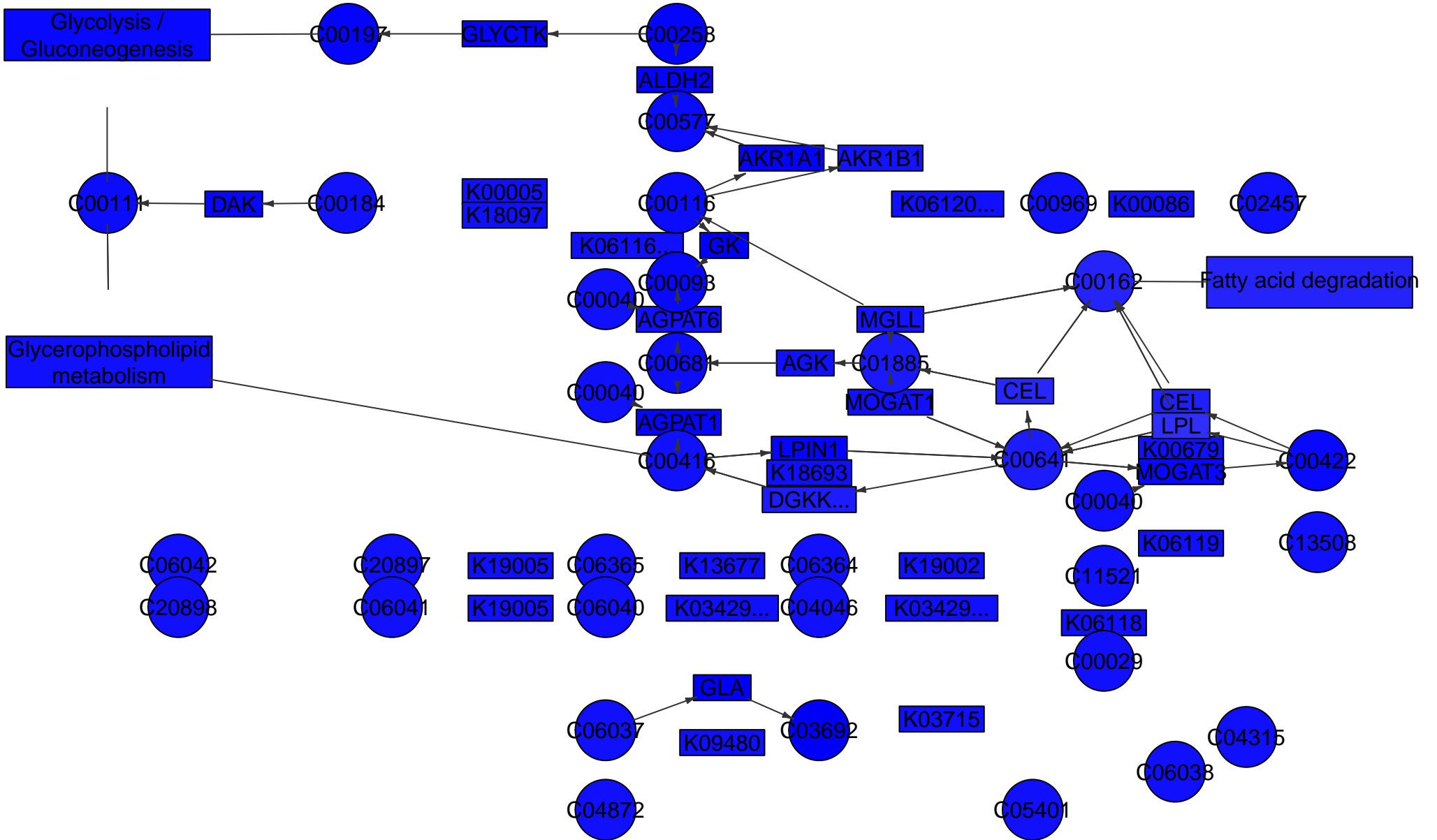
K19002

K03429...

K06119

K06118

C13508



Glycerolipid metabolism
MPI-159

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

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K06119

C00029

C13508

C06037

C04872

GLA

K09480

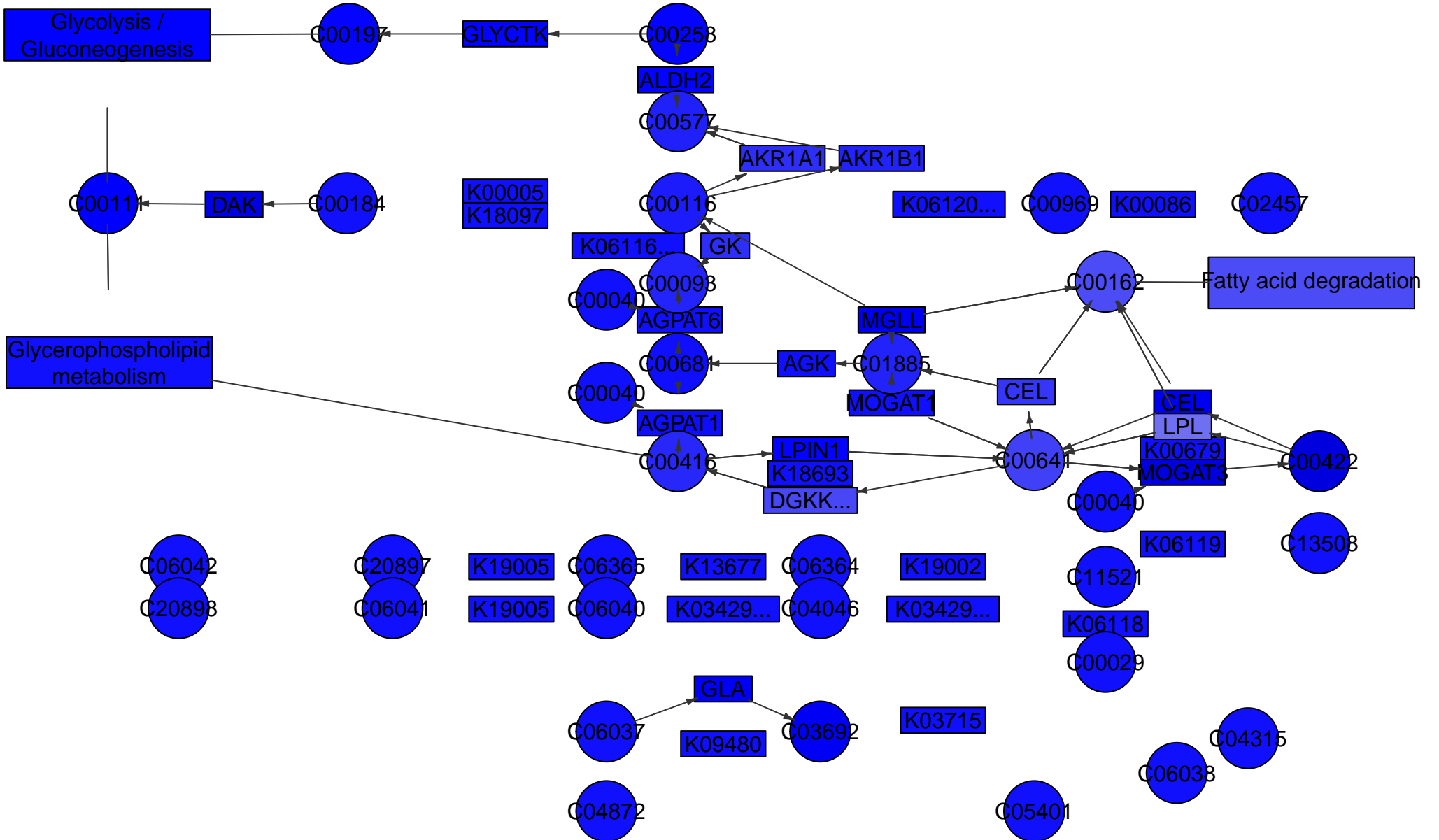
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-163

Glycolysis /
Gluconeogenesis

C00111

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

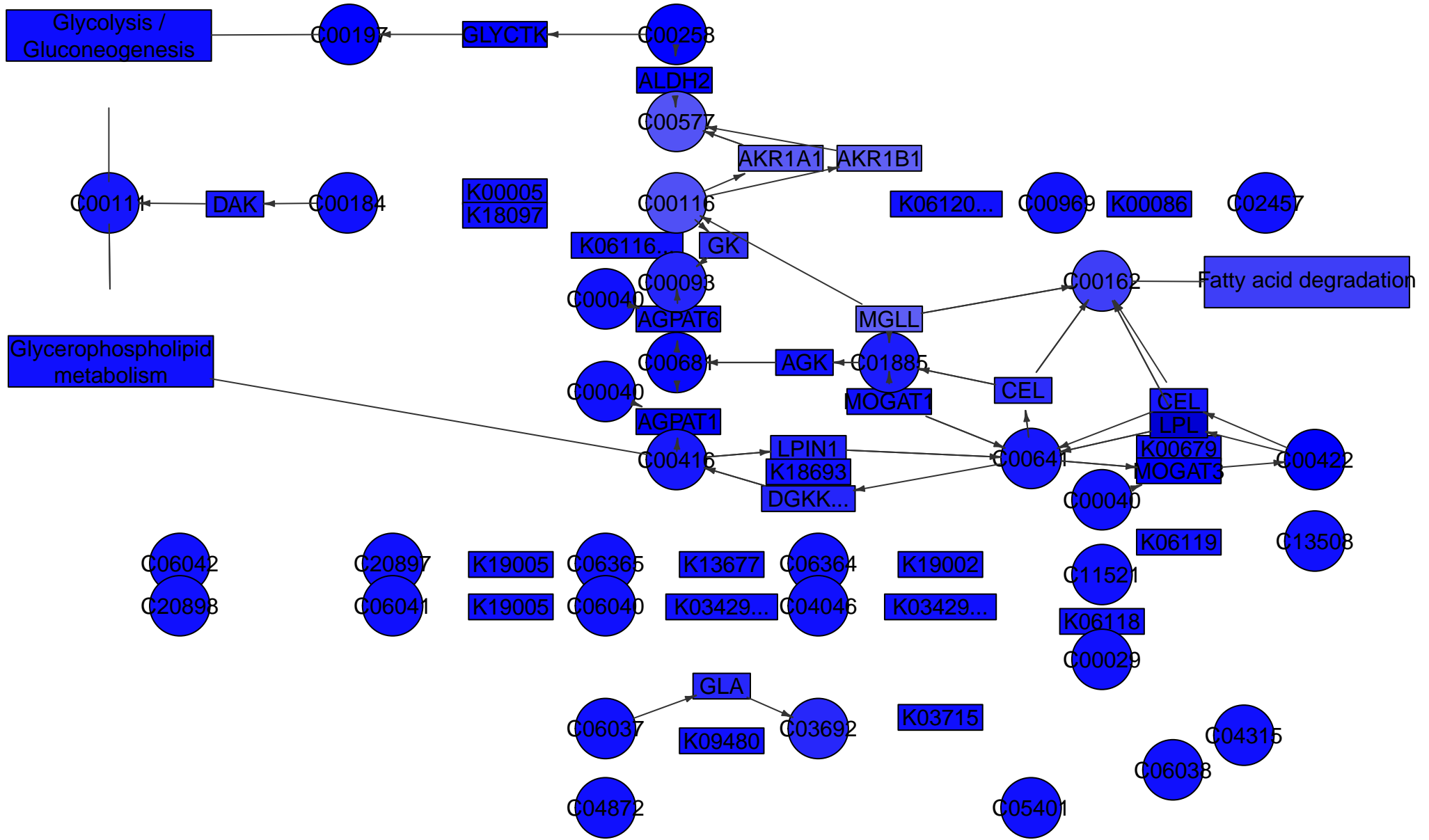
K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118

C13508



Glycerolipid metabolism
MPI-164

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C13508
C06038

C04315

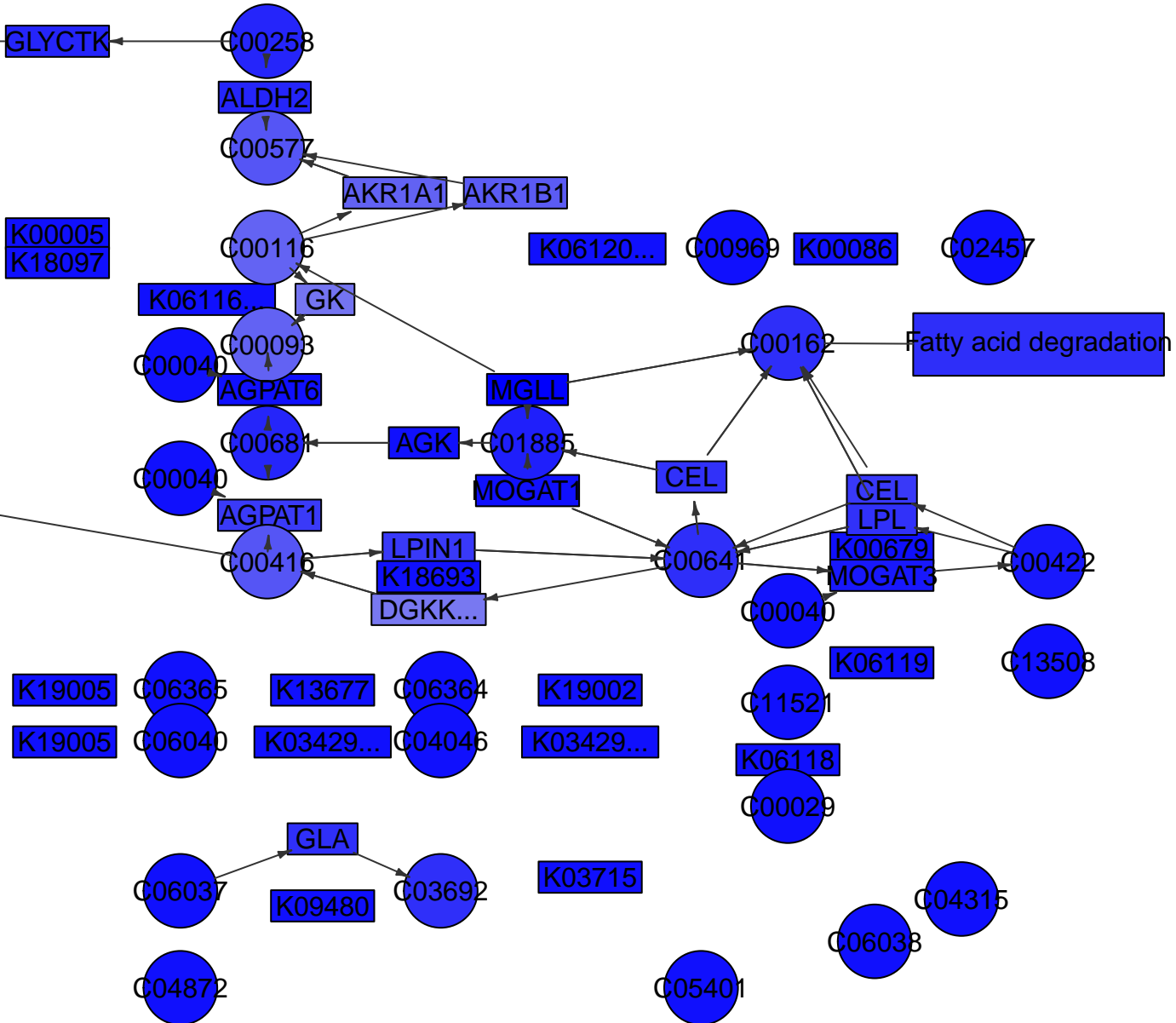
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C04872

GLA
K09480

C03692

K03715

C05401



Glycerolipid metabolism
MPI-166

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

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K06119

C00029

C13508

C06037

C04872

GLA

K09480

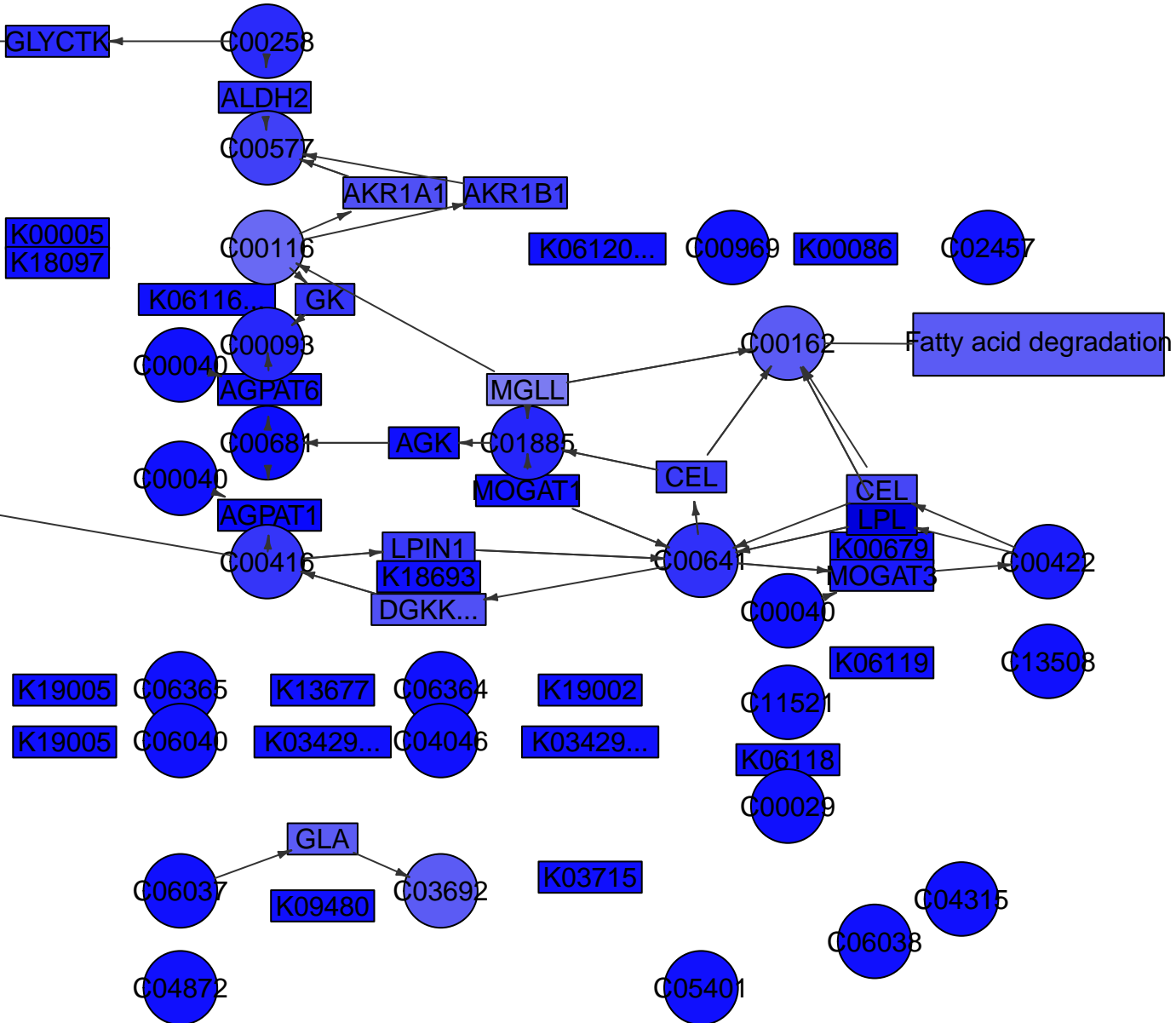
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-167

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

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K06119

C00029

C13508

C06037

C04872

GLA

K09480

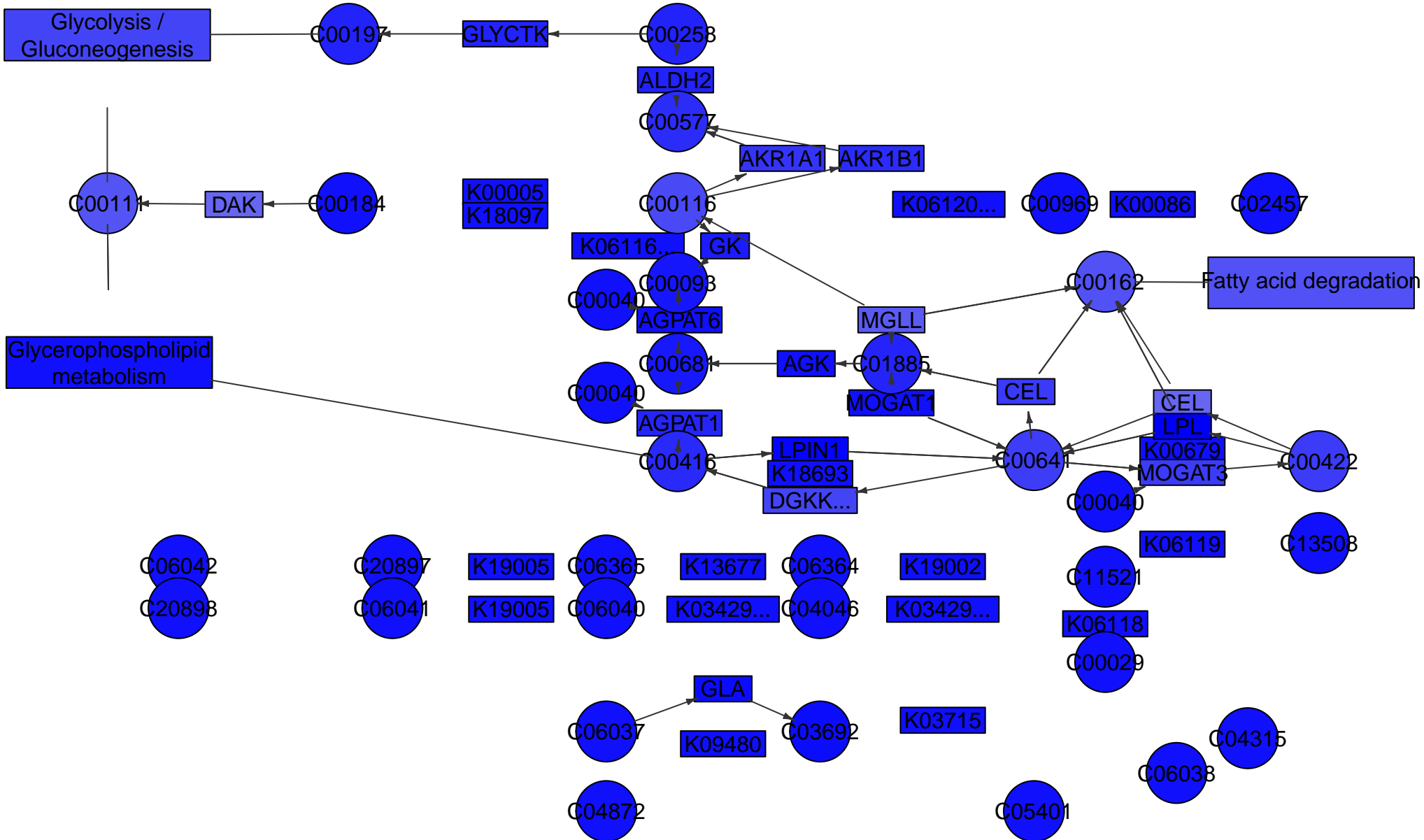
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-173

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

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K06119
C00040
C06038

C13508

C06037
C04872

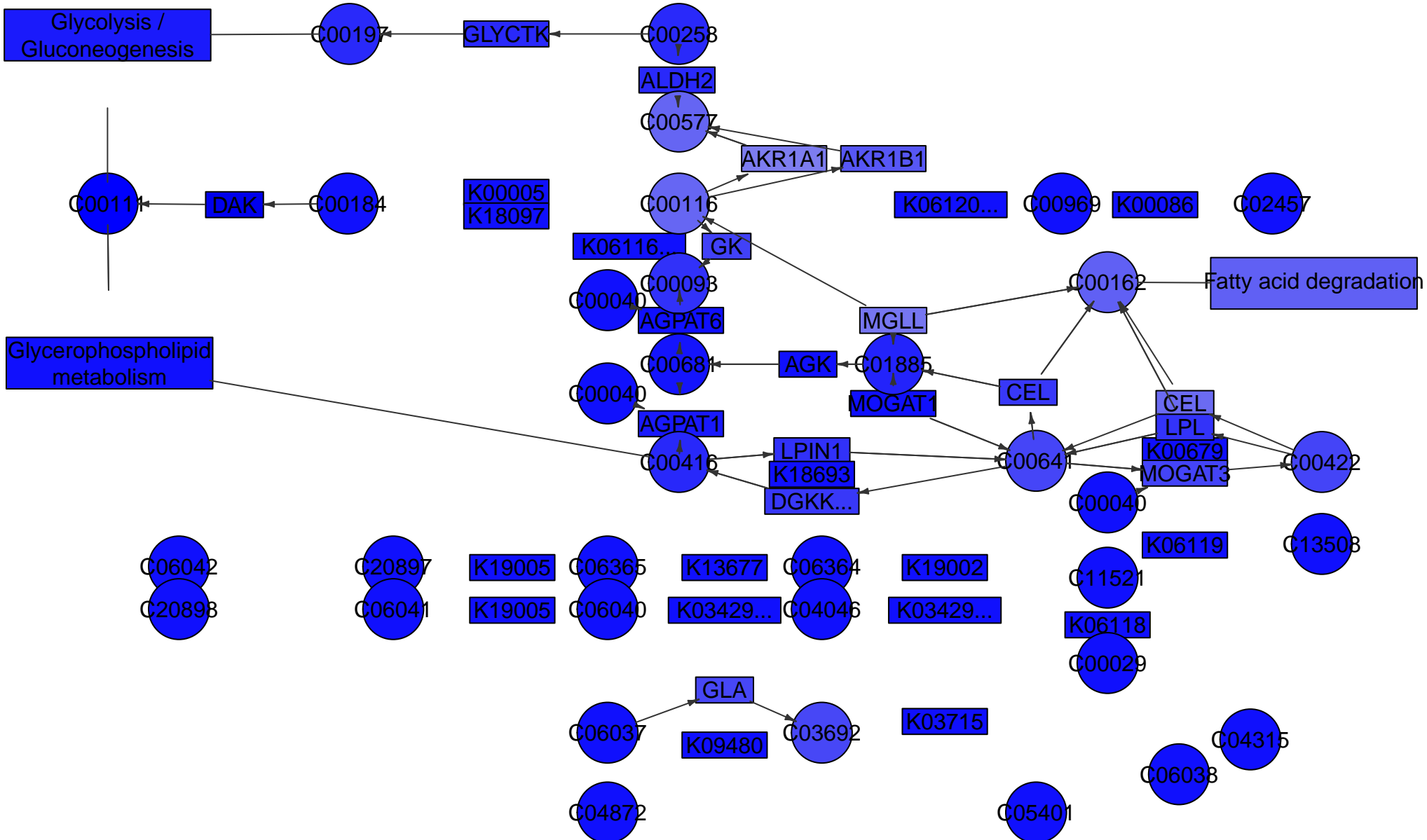
GLA
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C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-174

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

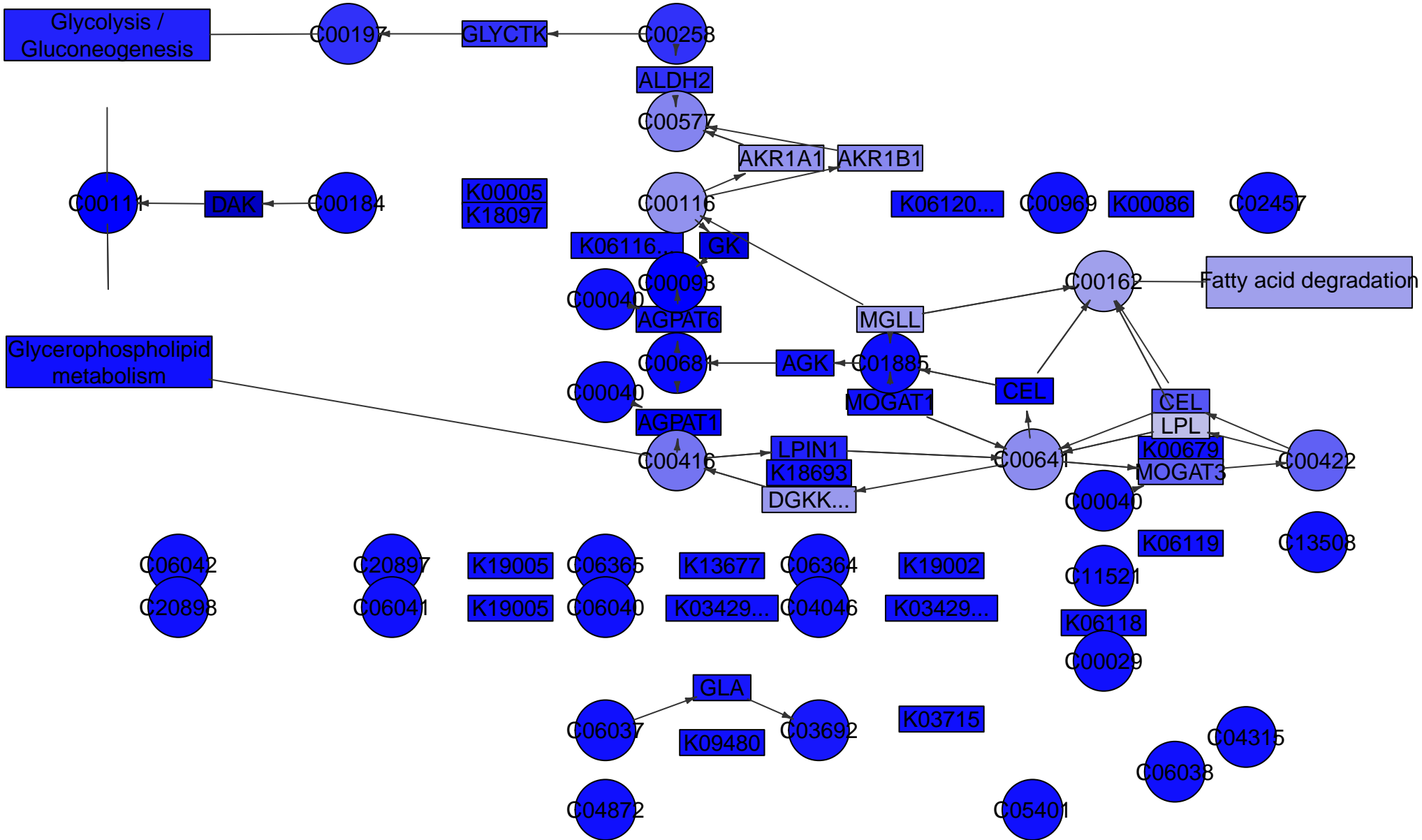
K19002

K03429...

K06119

K06118

C13508



Glycerolipid metabolism
MPI-177

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

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C00029

K06119
C06038

C13508

C06037
C04872

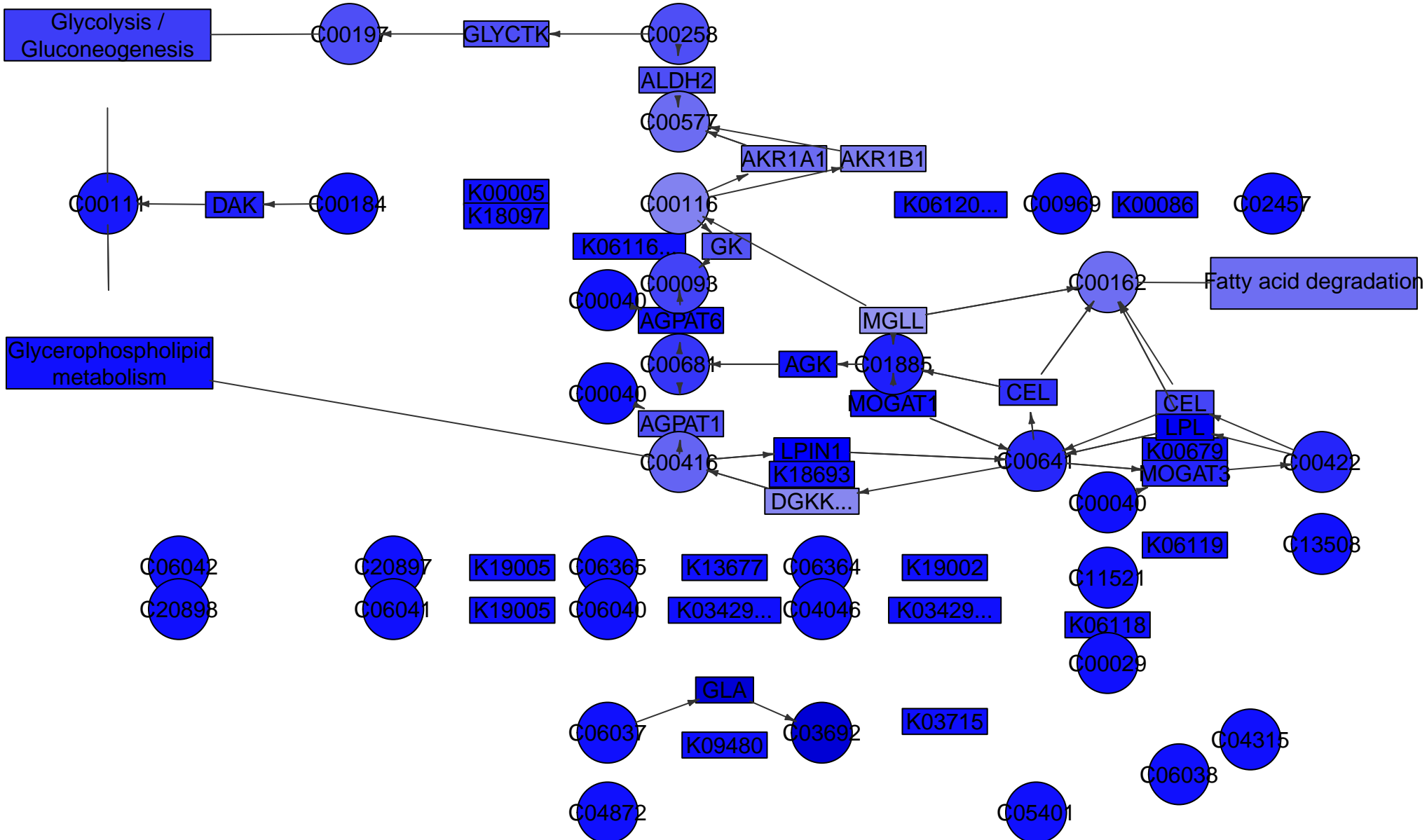
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K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-178

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C13508
C06038

C06037
C04872

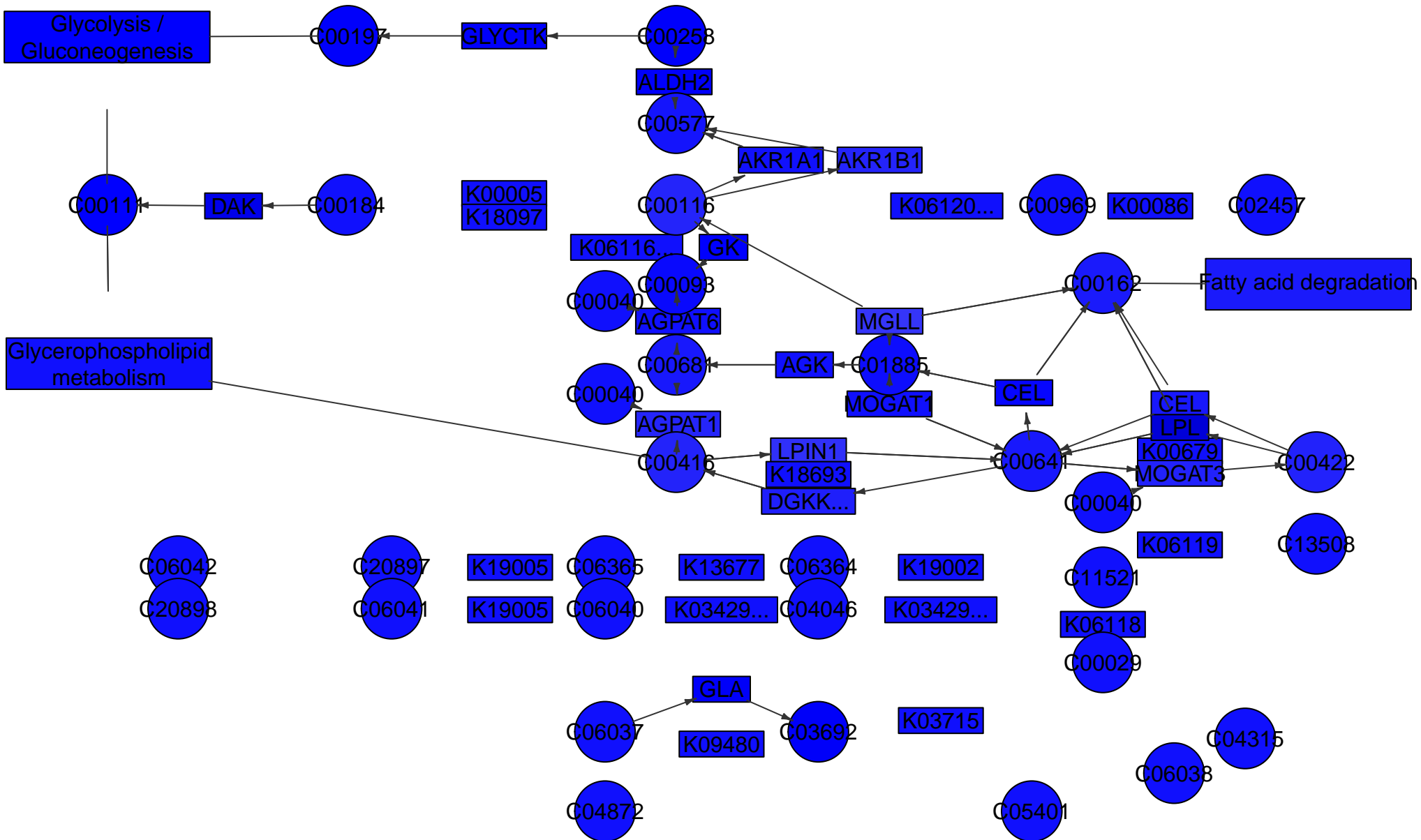
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-179

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

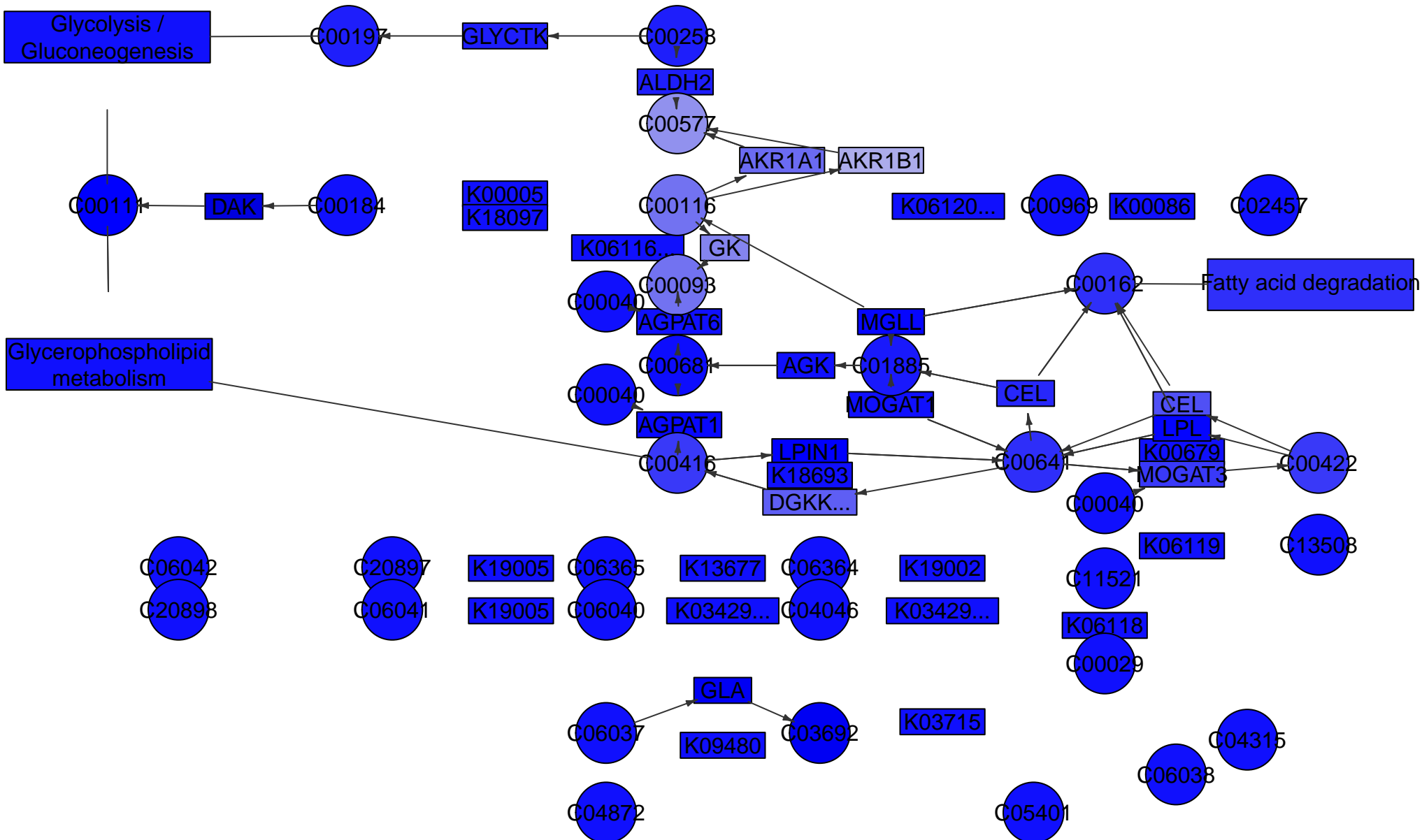
C03692

K03715

C05401

C06038

C04315



Fatty acid degradation

Glycerolipid metabolism
MPI-180

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

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K06119

C00029

C13508

C06037

C04872

GLA

K09480

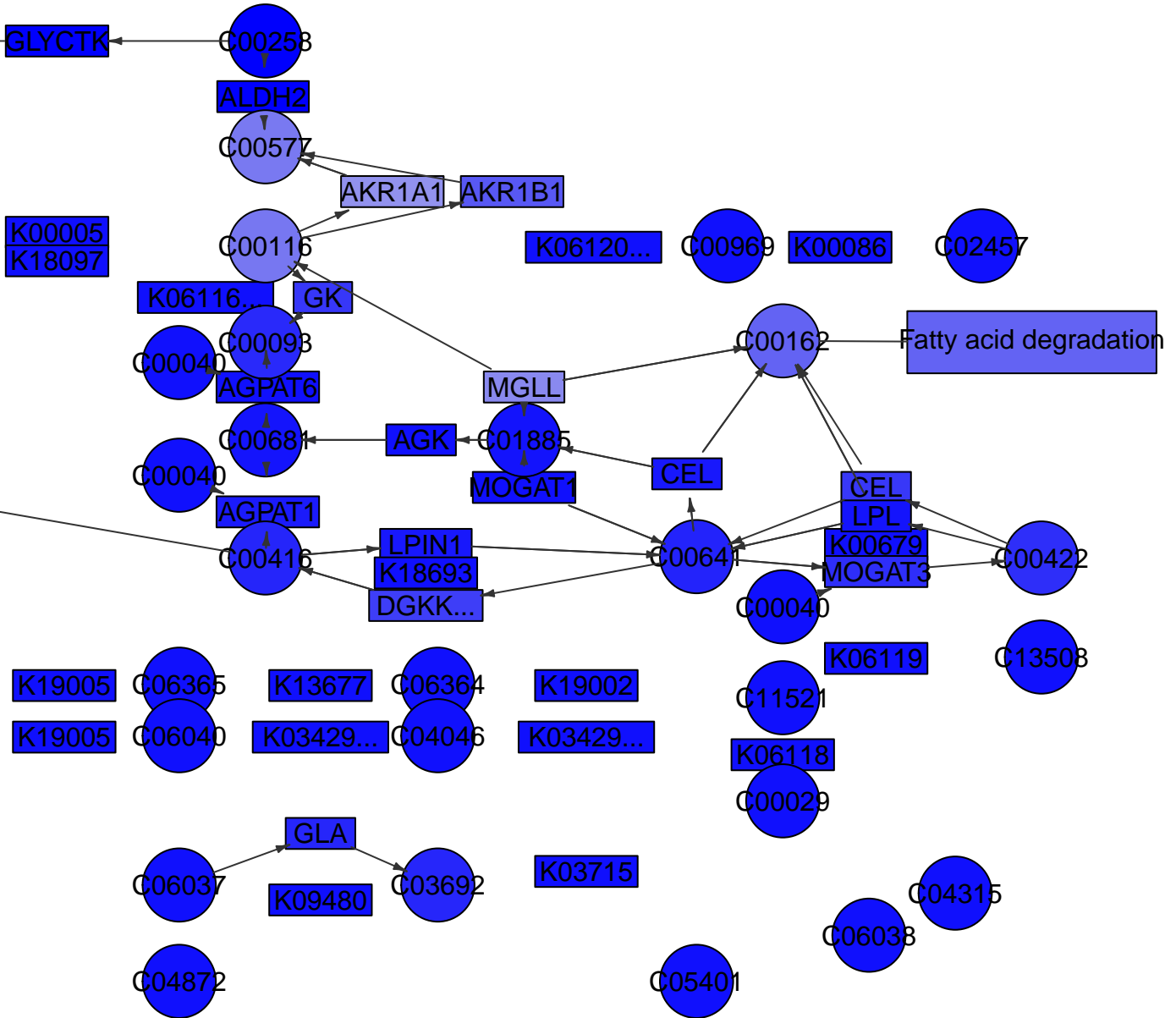
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-182

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

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K06119

C00029

C13508

C06037

C04872

GLA

K09480

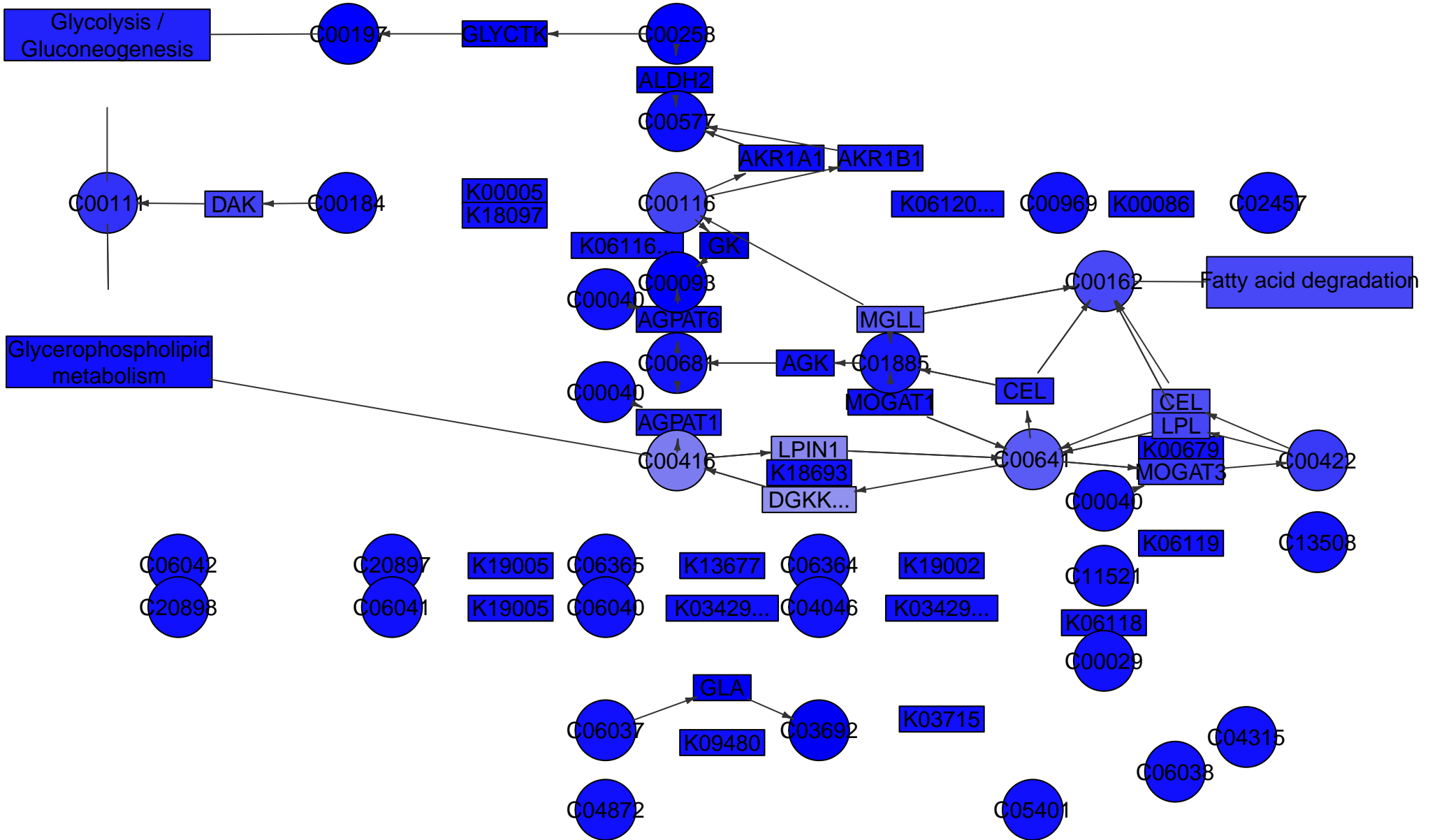
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-183

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

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C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

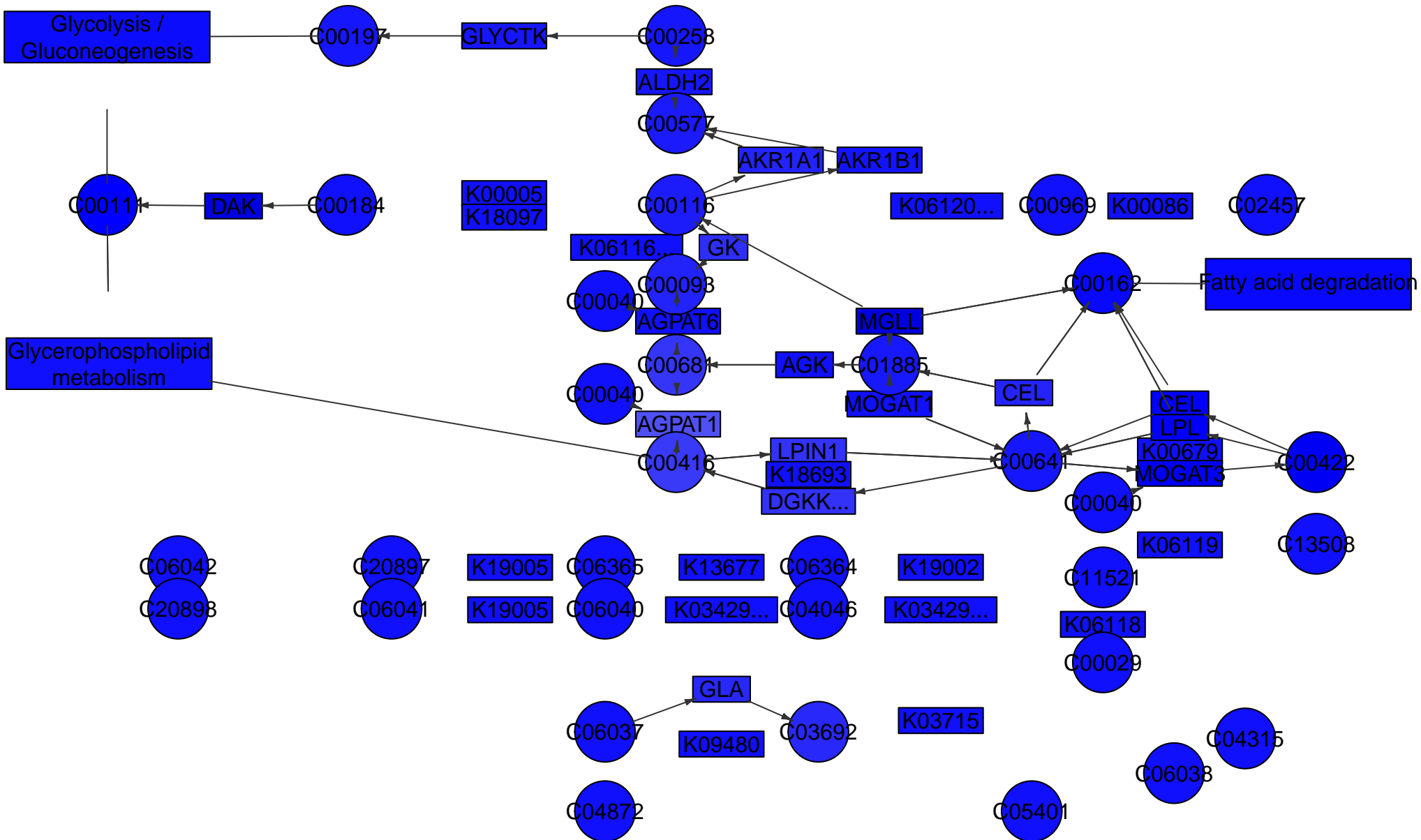
C06364
C04046

K19002
K03429...

C11521
K06118
C00029

C06038
C04315

C13508



Glycerolipid metabolism
MPI-184

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

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K06119

K06118

C13508

C06037

C04872

GLA

K09480

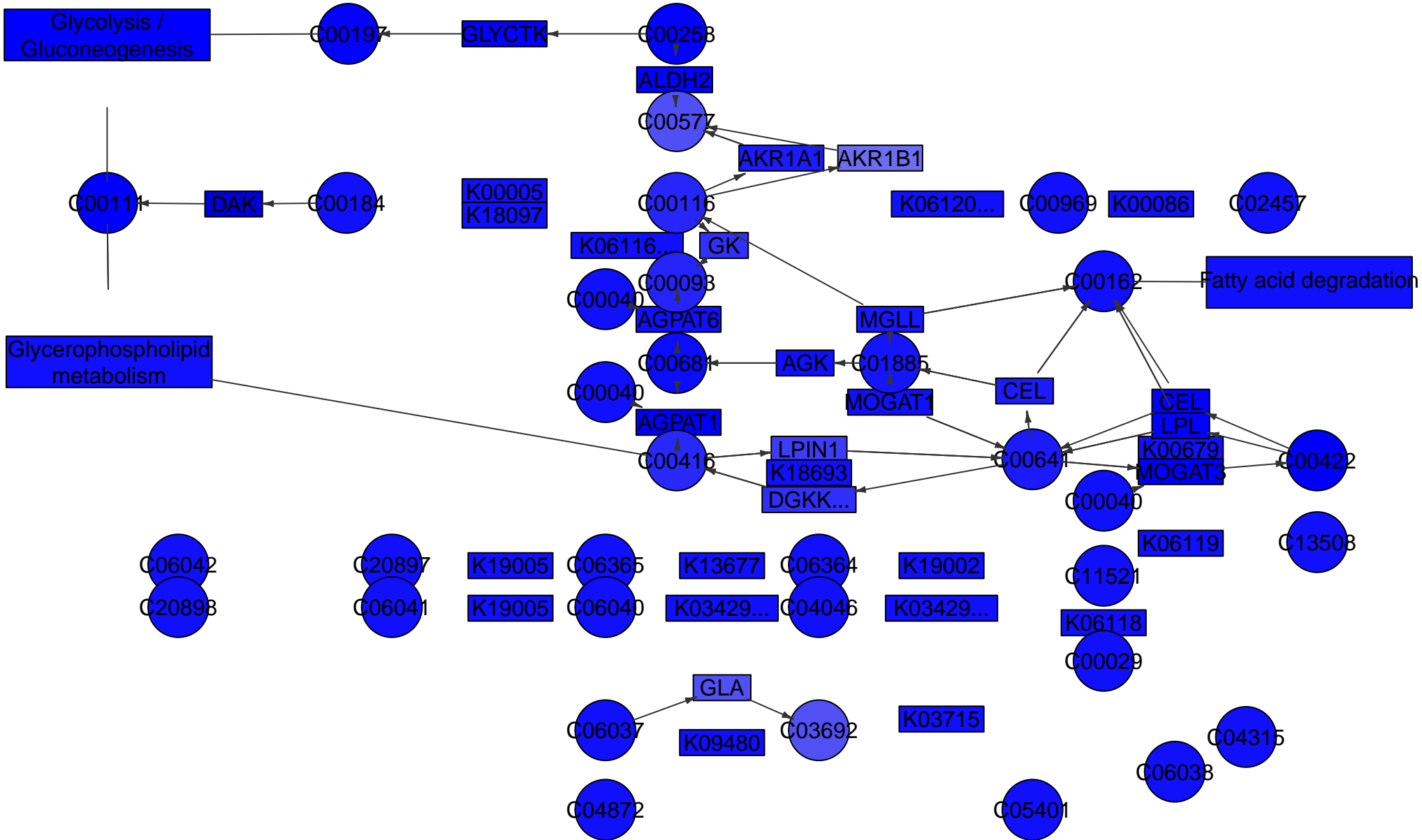
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-185

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

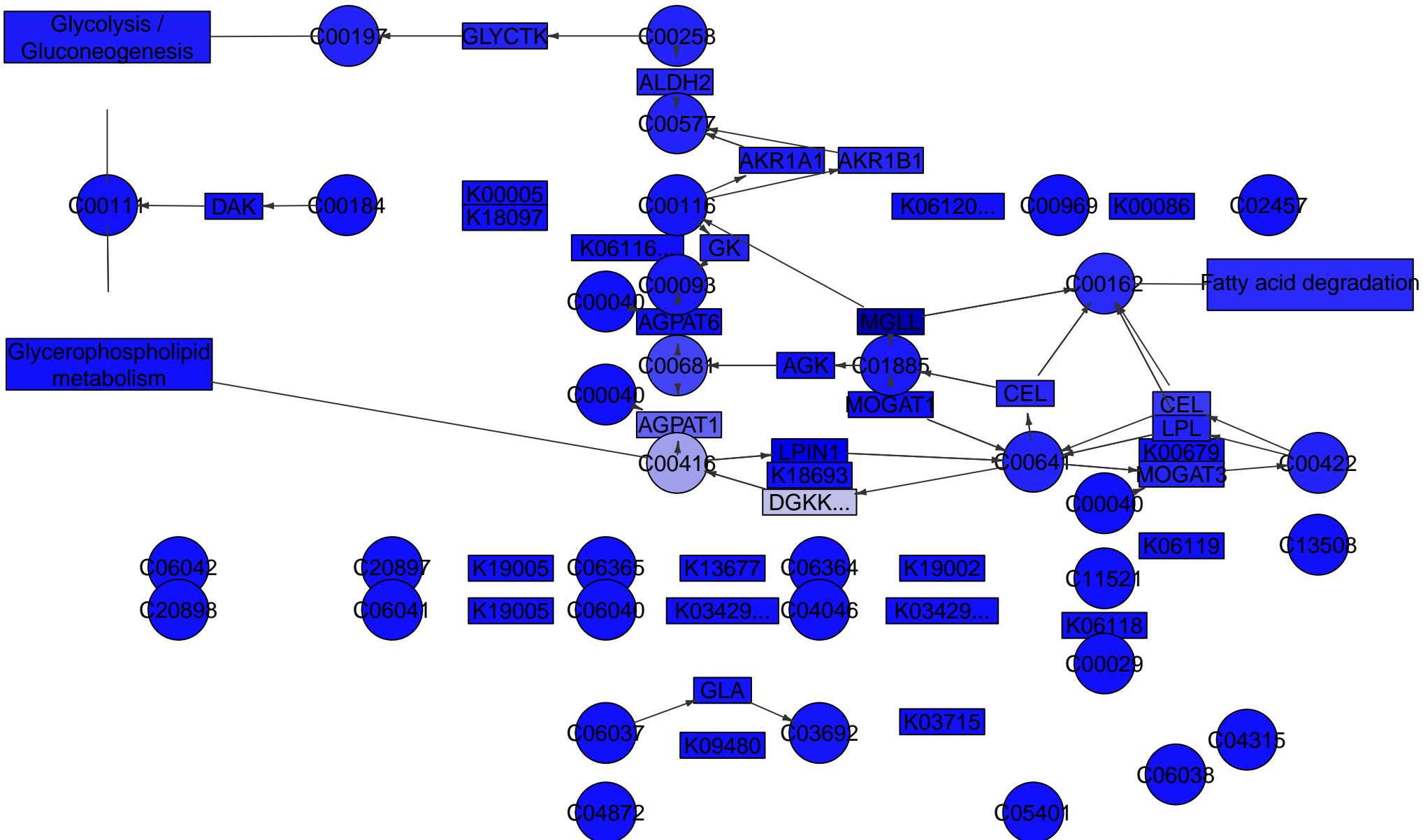
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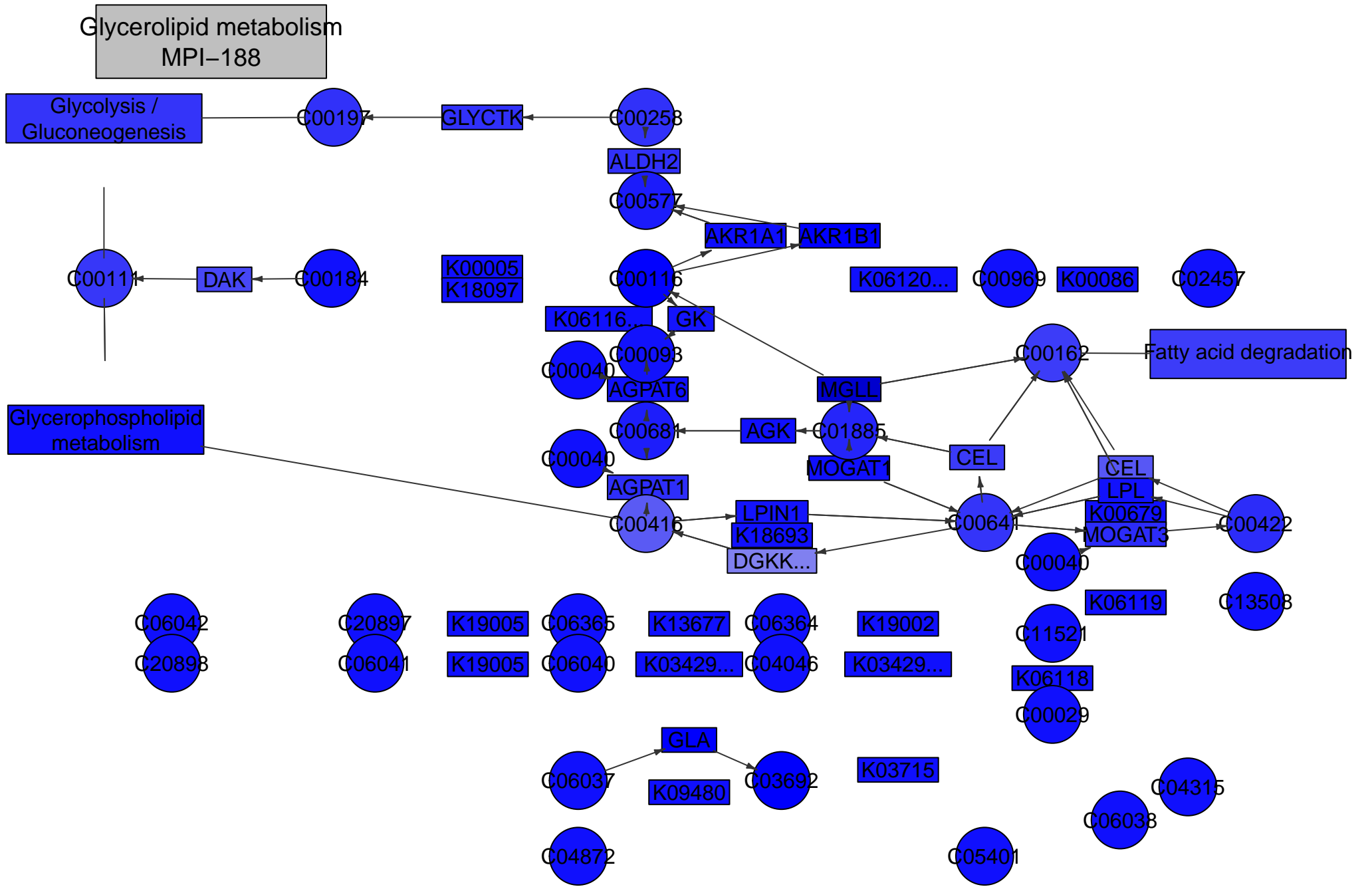
K03715

C05401

C06038

C04315





Glycerolipid metabolism
MPI-191

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

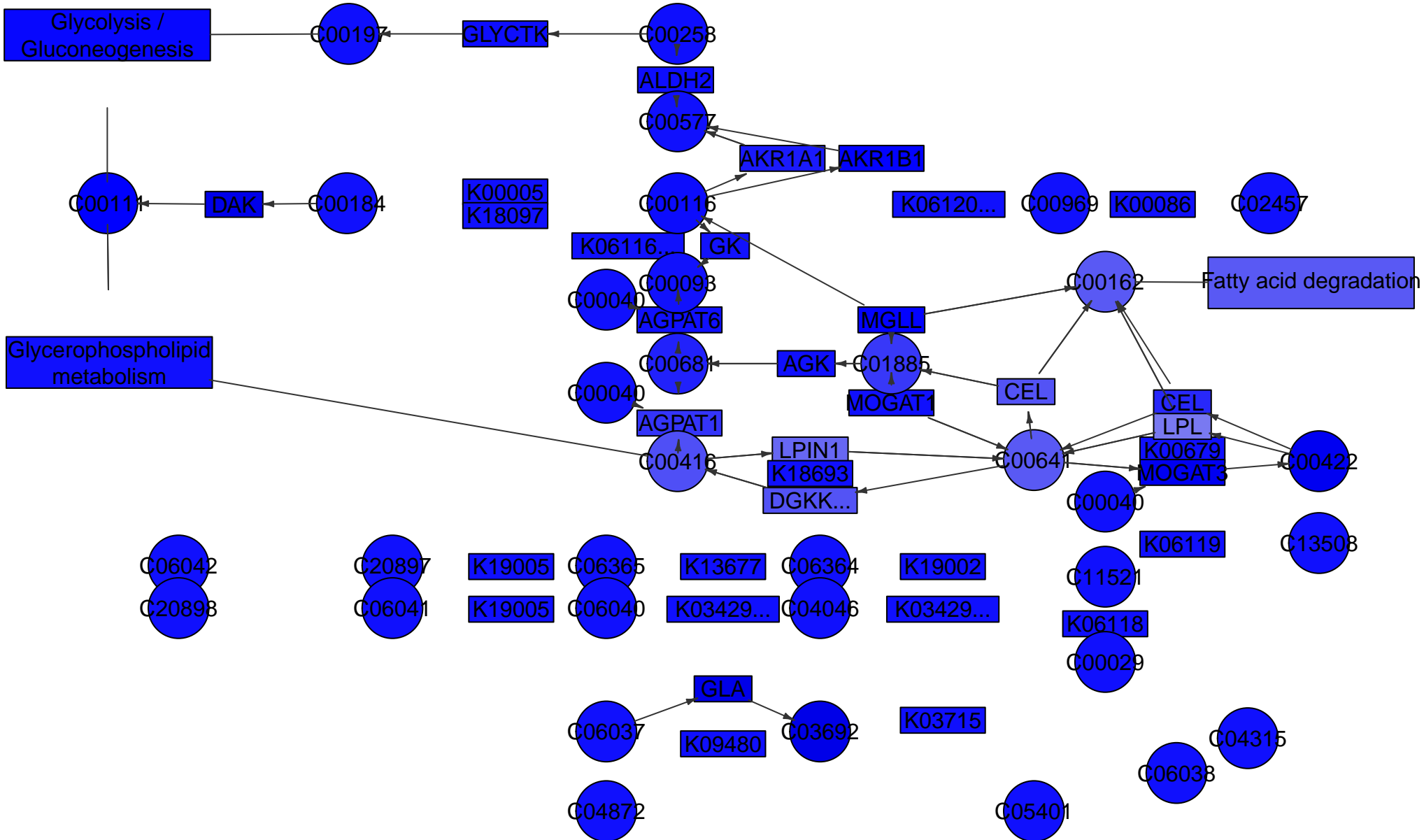
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K03429...

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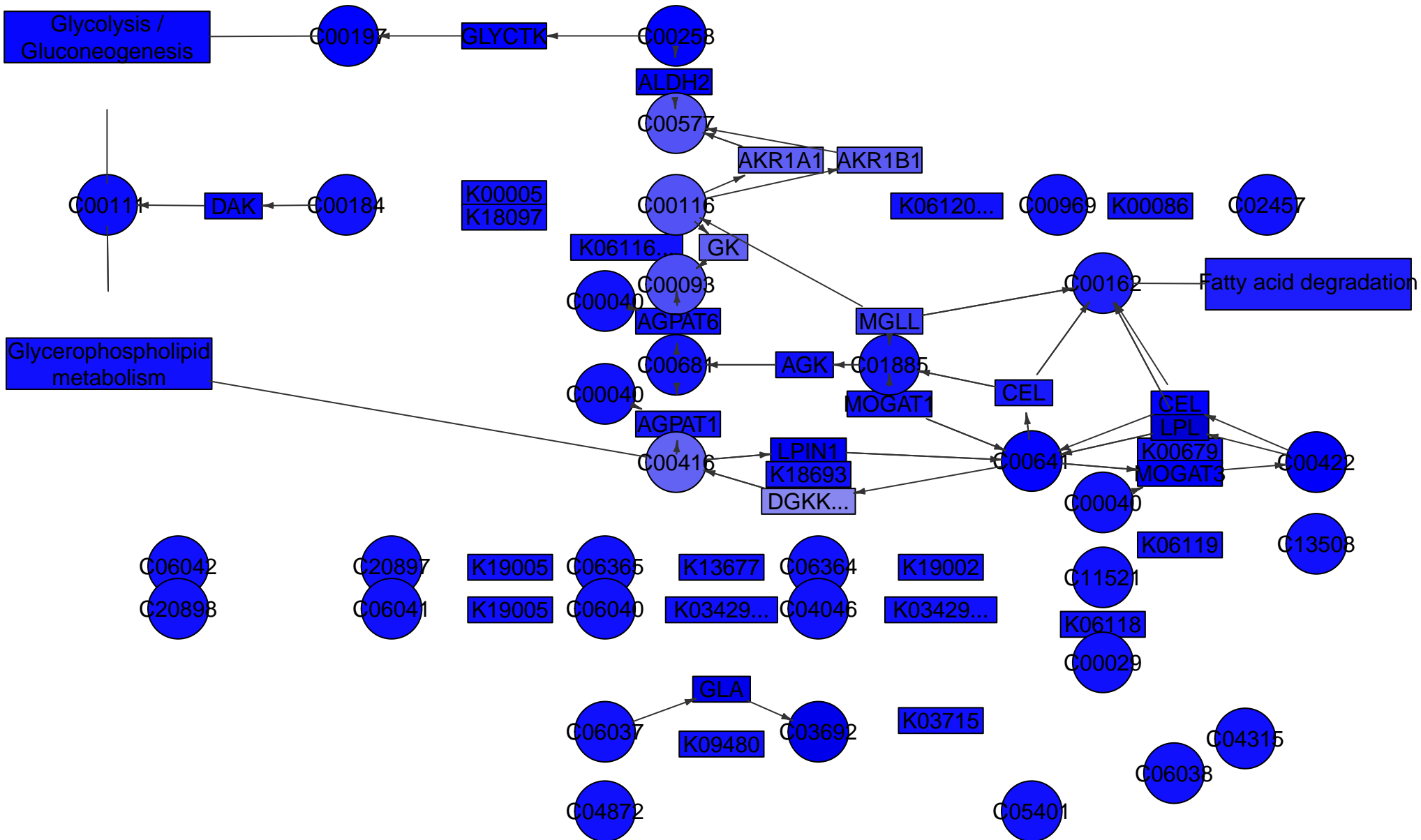
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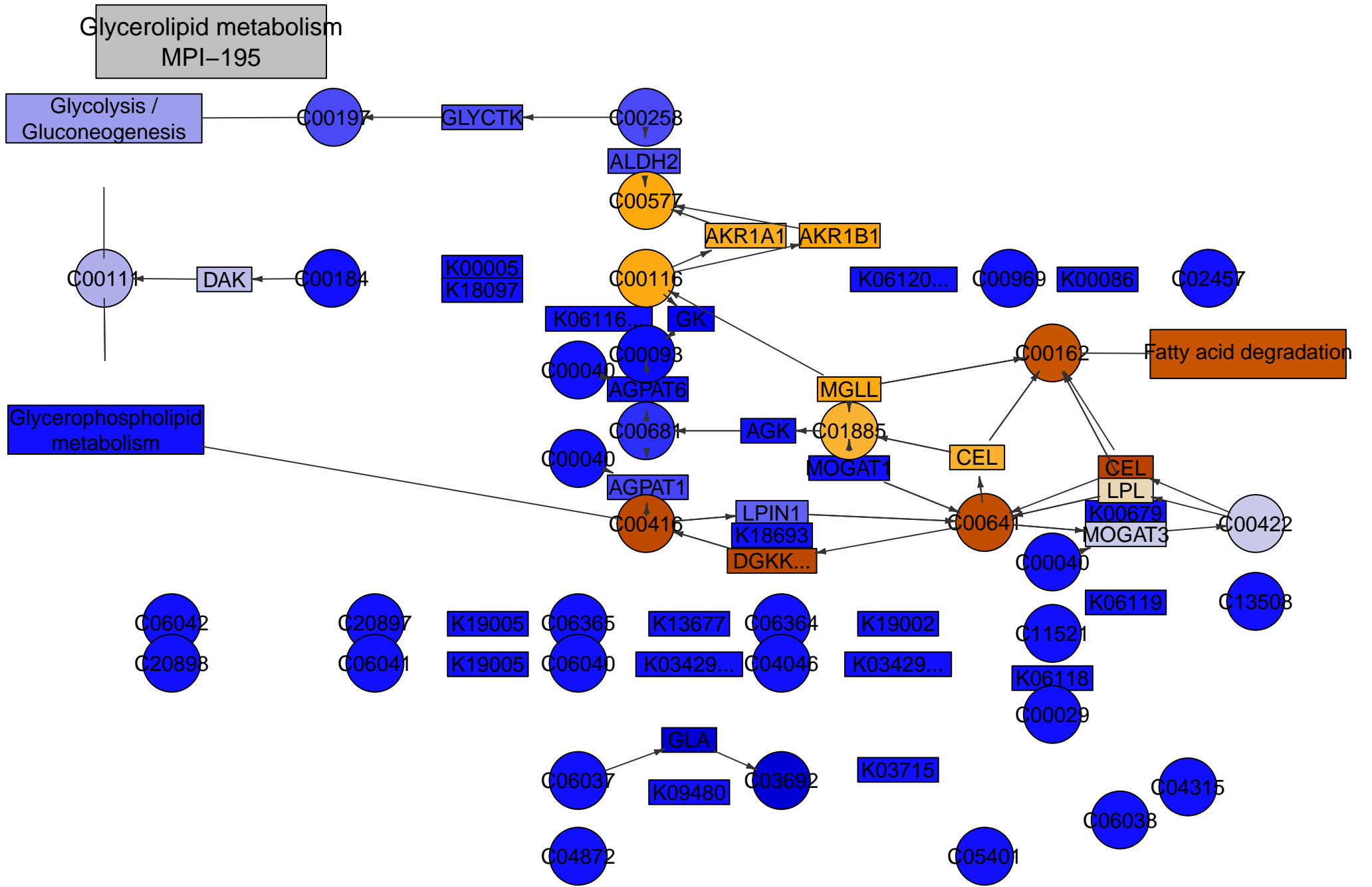
C13508

Fatty acid degradation



Glycerolipid metabolism
MPI-194





Glycerolipid metabolism
MPI-198

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C00040
C11521
C00029

K06119
K06118

C13508

C06037
C04872

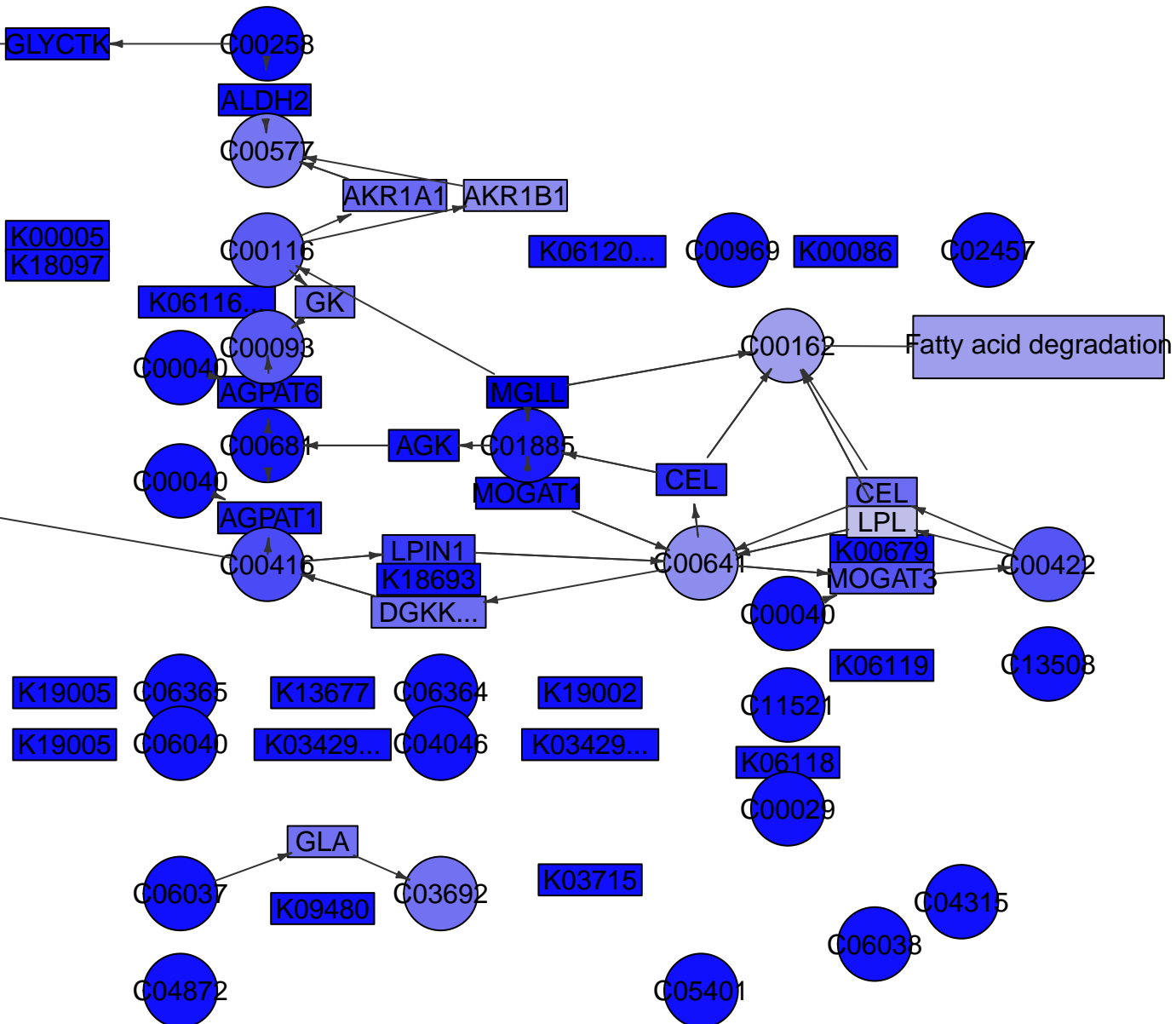
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K09480

C03692

K03715

C05401

C06038
C04315



Glycerolipid metabolism
MPI-199

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

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C06037
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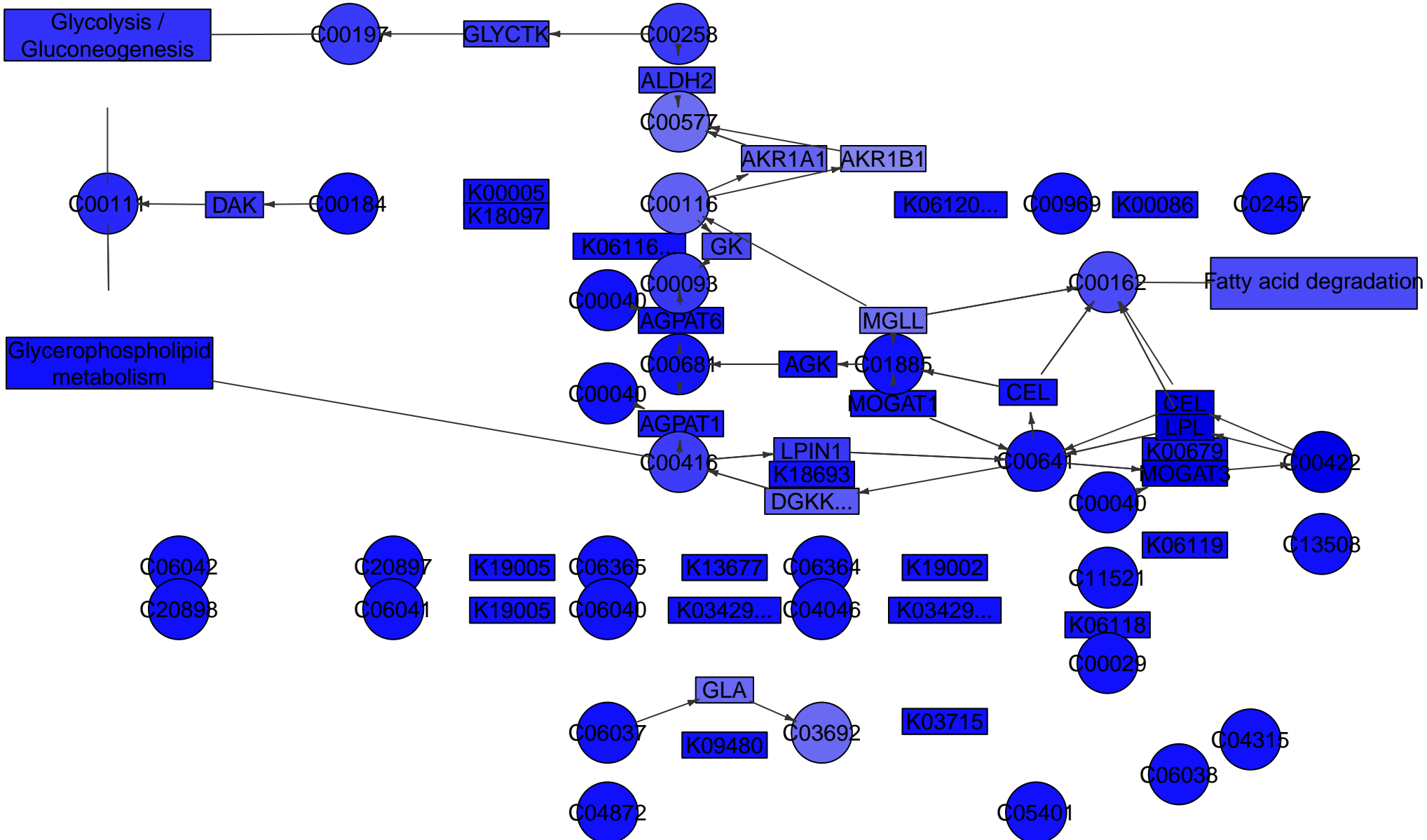
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K09480

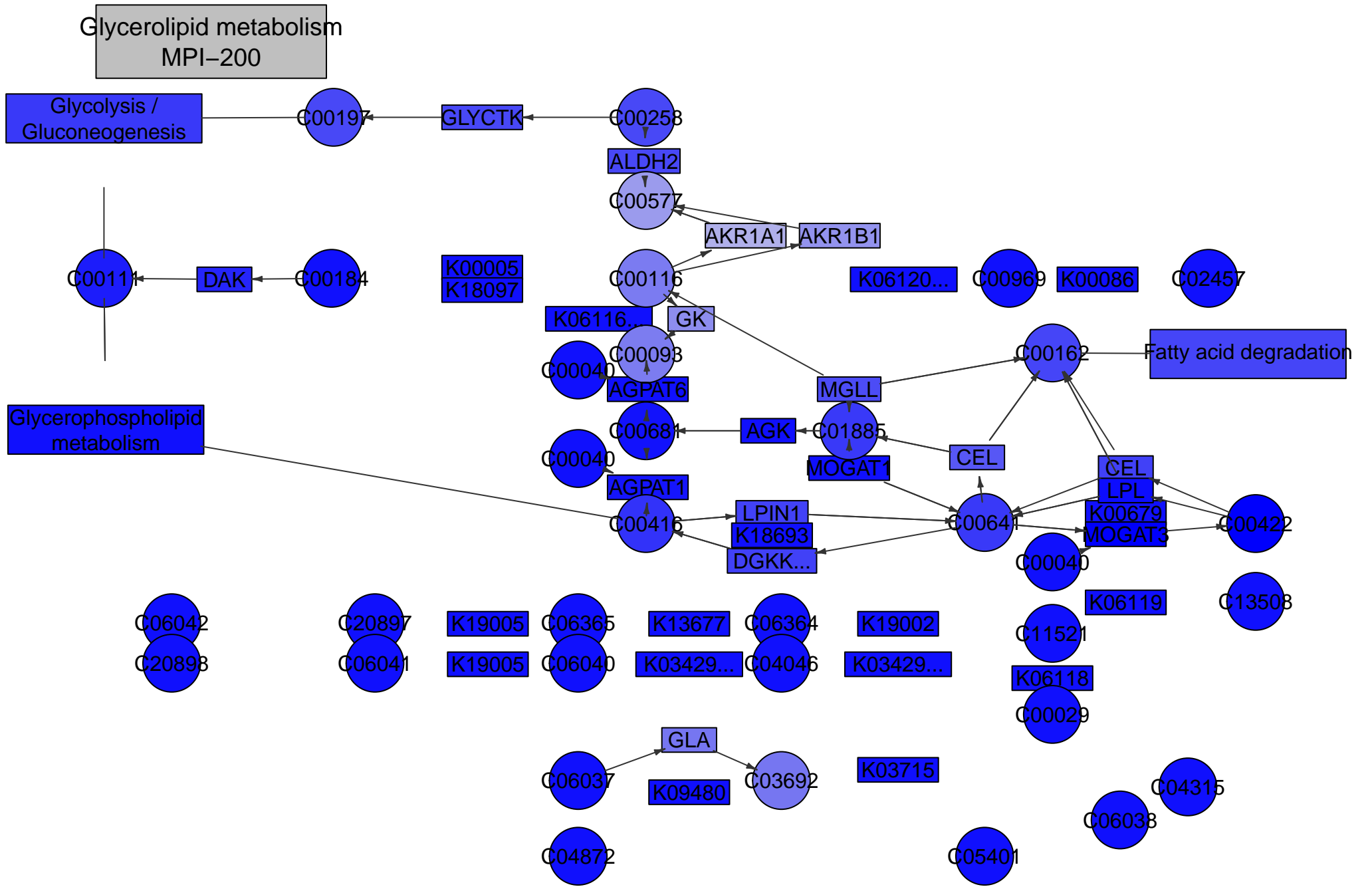
C03692

K03715

C05401

C04315





Glycerolipid metabolism
MPI-201

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

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K06119
K06118

C13508

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GLA
K09480

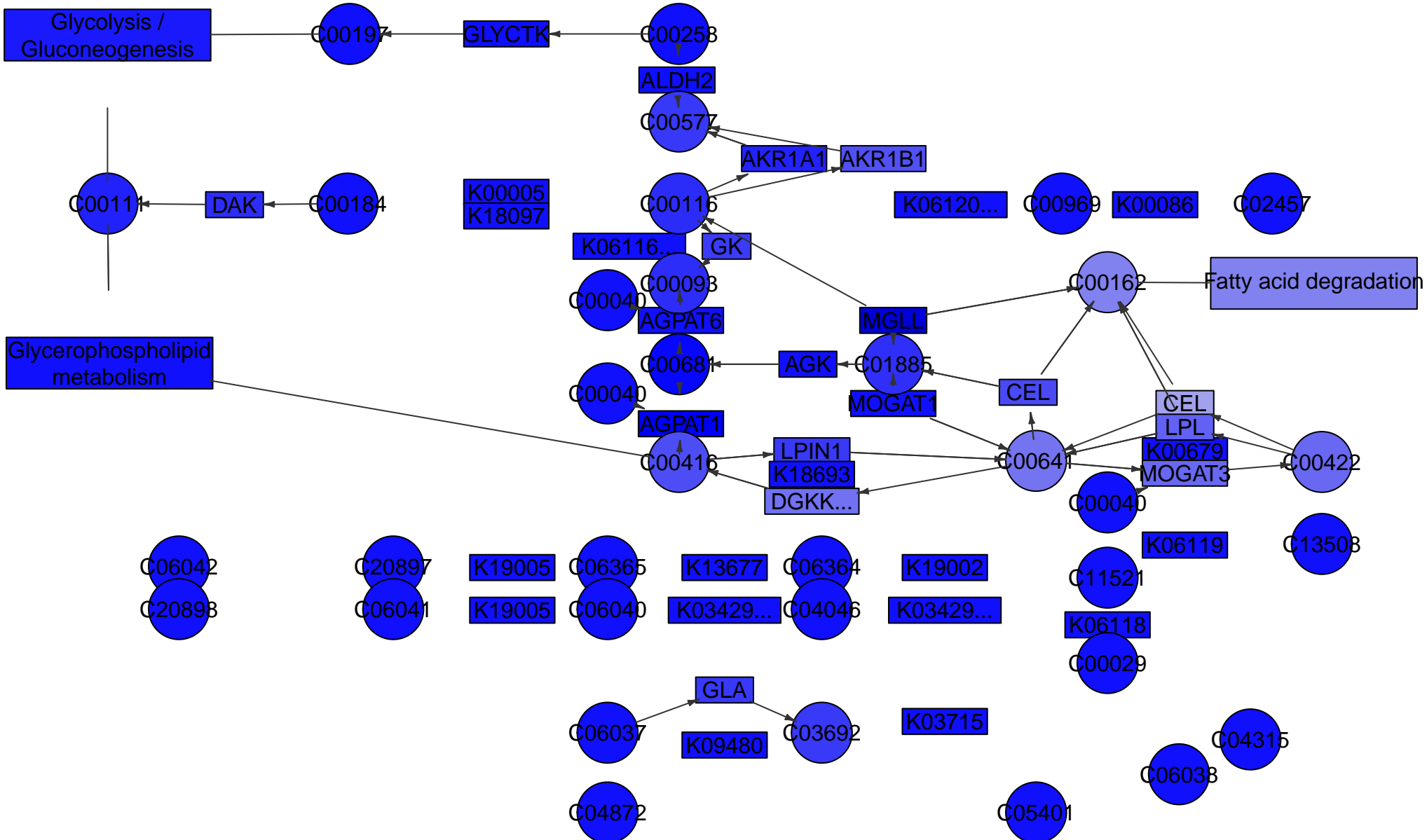
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-202

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

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C00029

K06119

C13508

C06037
C04872

GLA
K09480

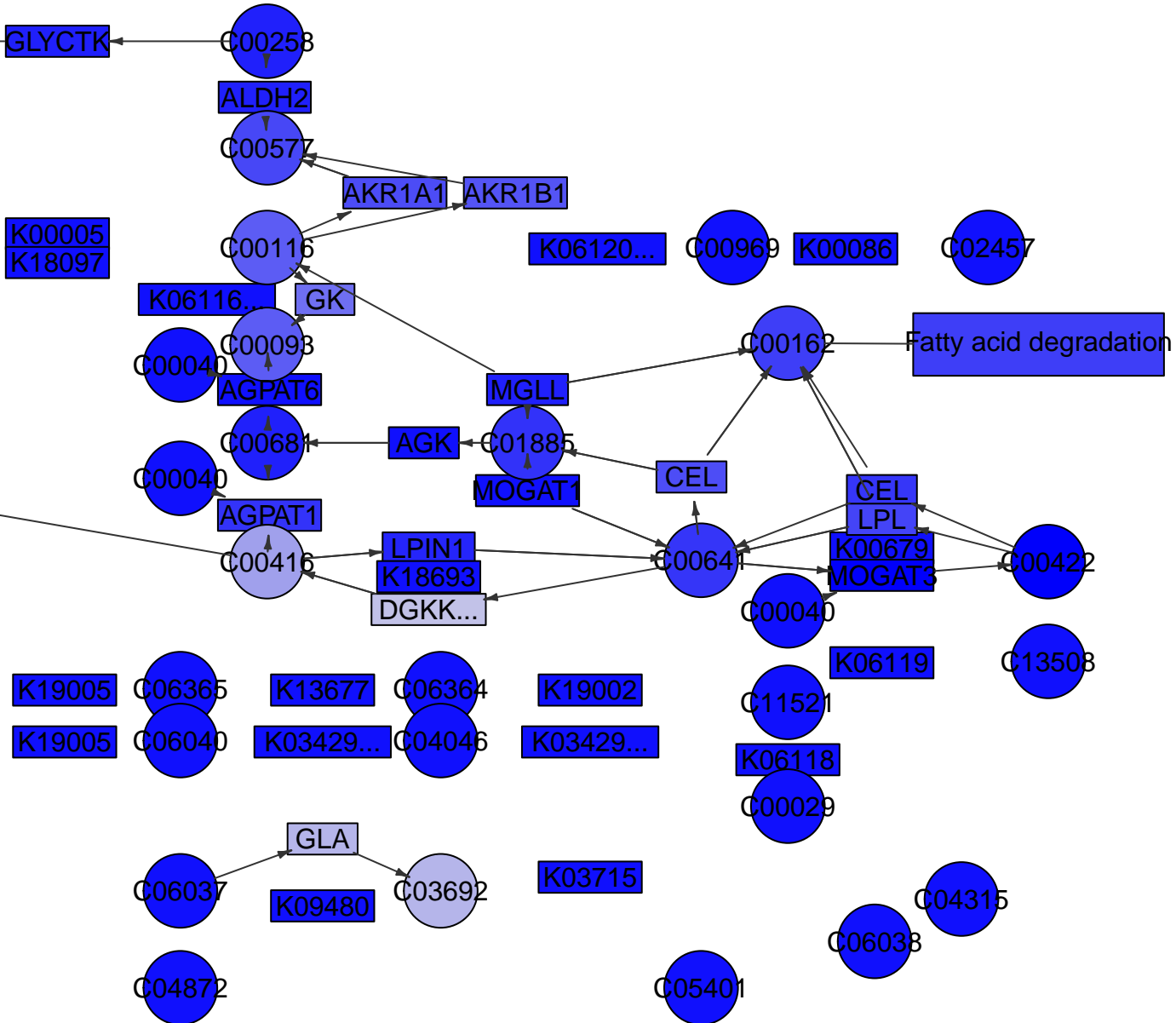
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-203

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118

C13508

C06037
C04872

GLA
K09480

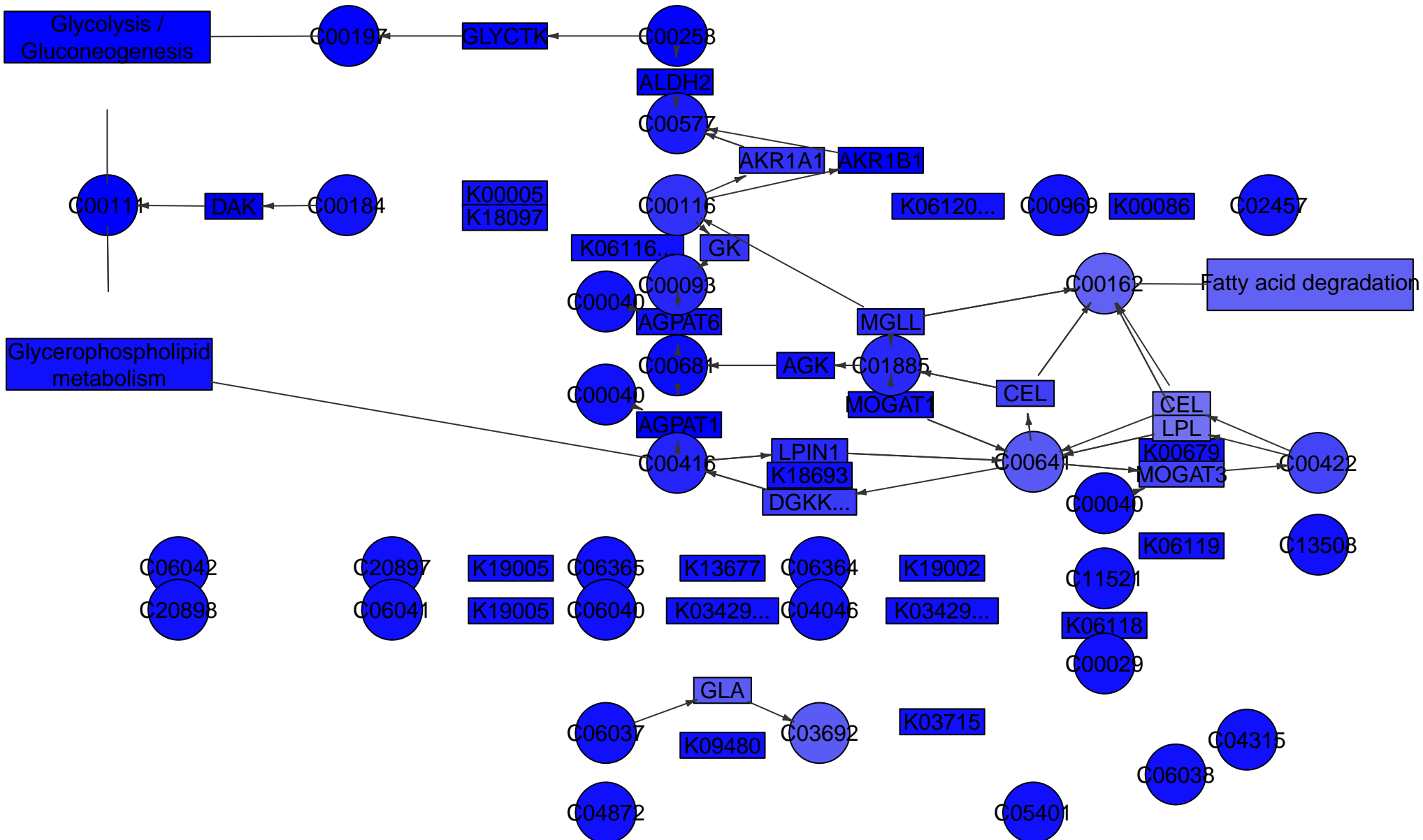
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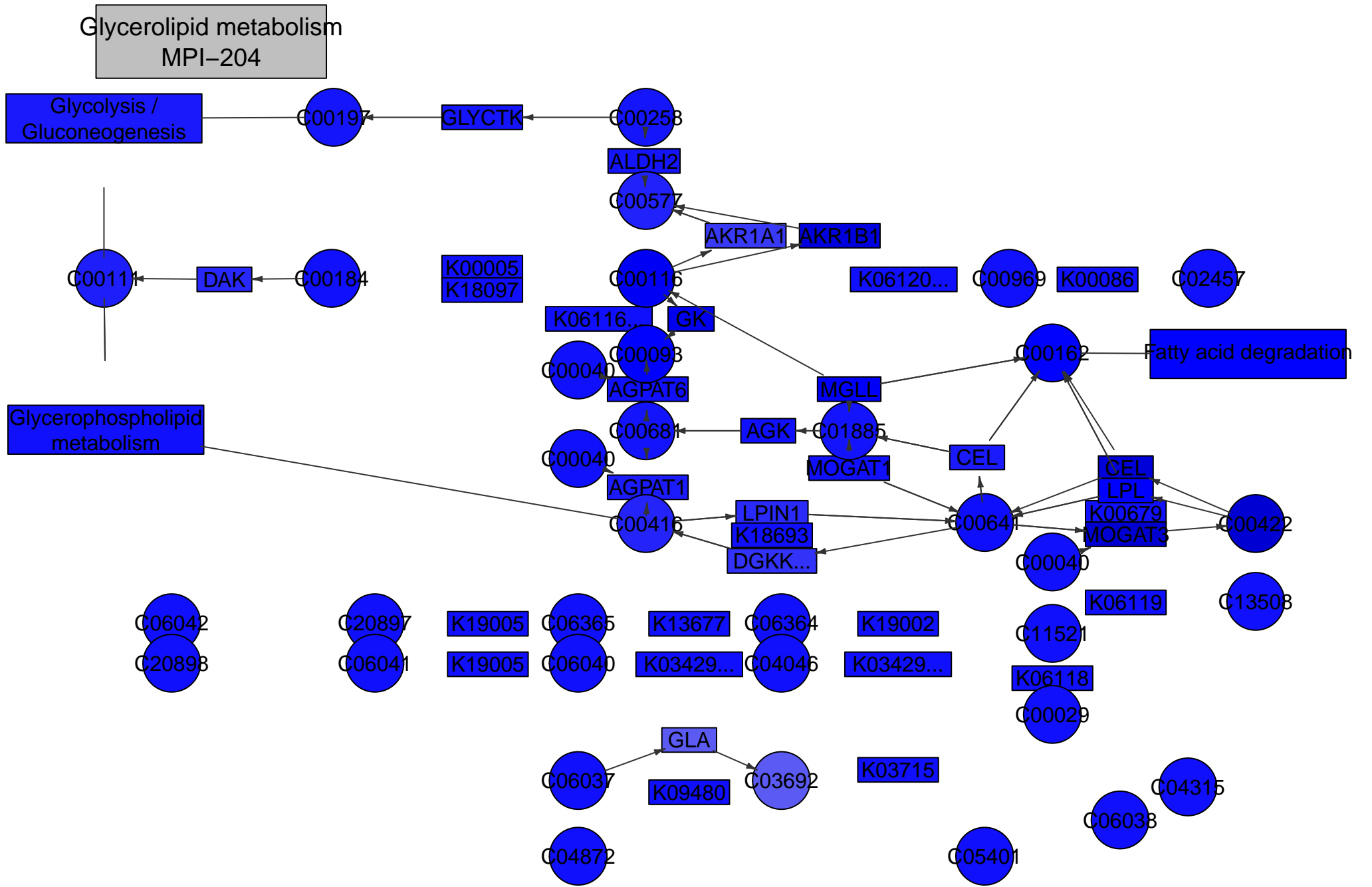
K03715

C05401

C06038

C04315





Glycerolipid metabolism
MPI-205

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

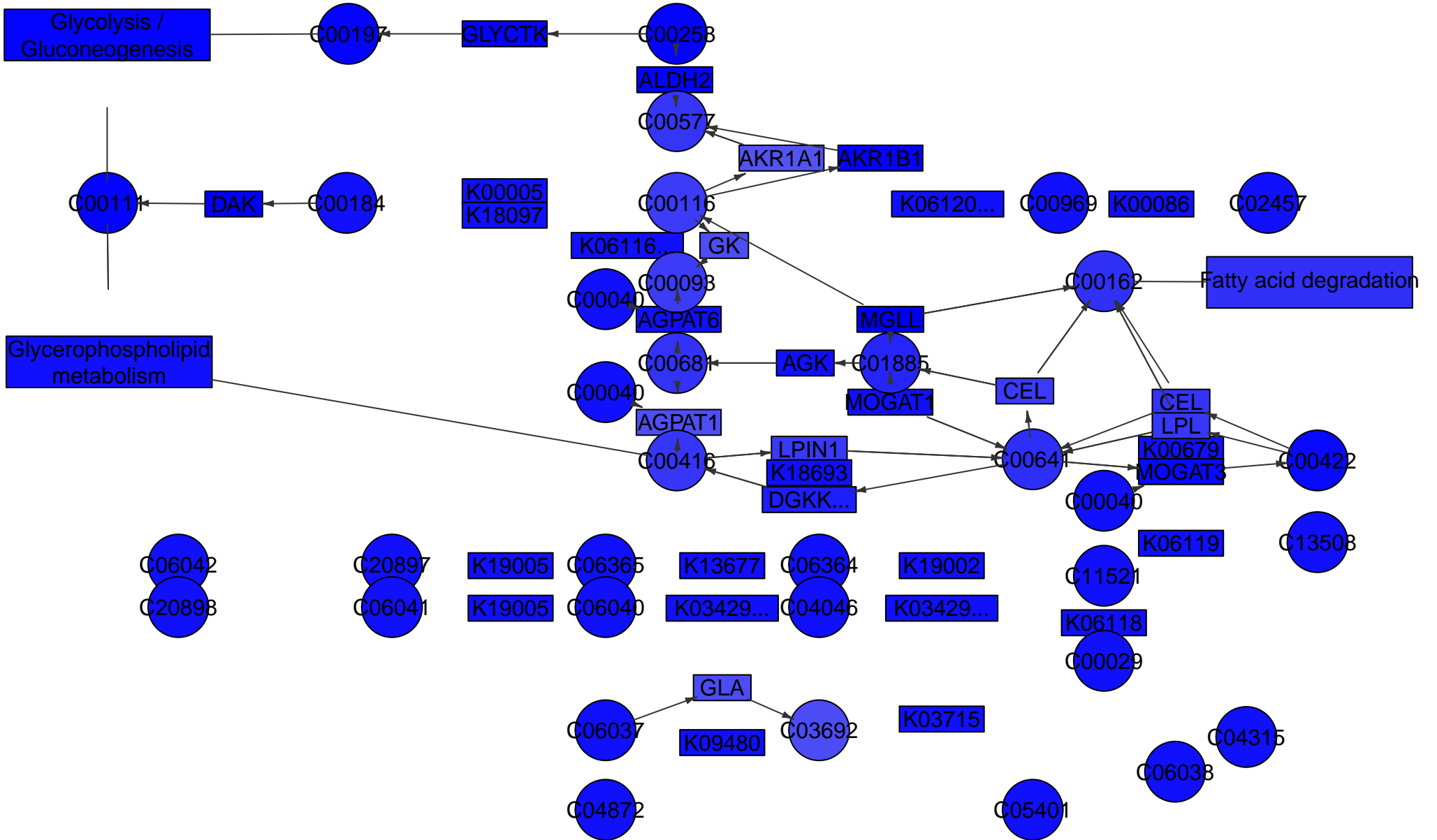
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-206

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
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K06119
K06118

C13508

C06037
C04872

GLA
K09480

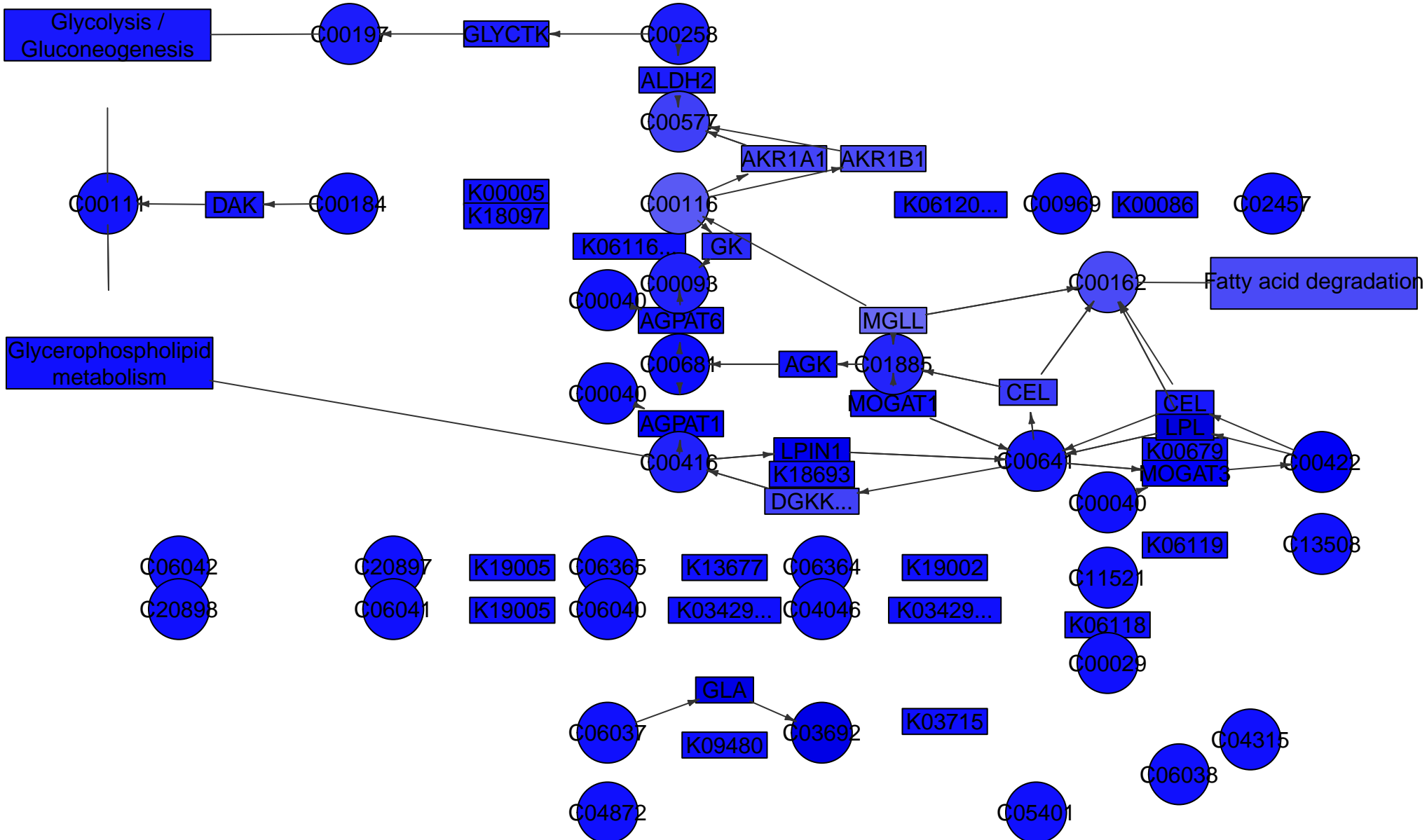
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-207

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C06038

C13508

C06037
C04872

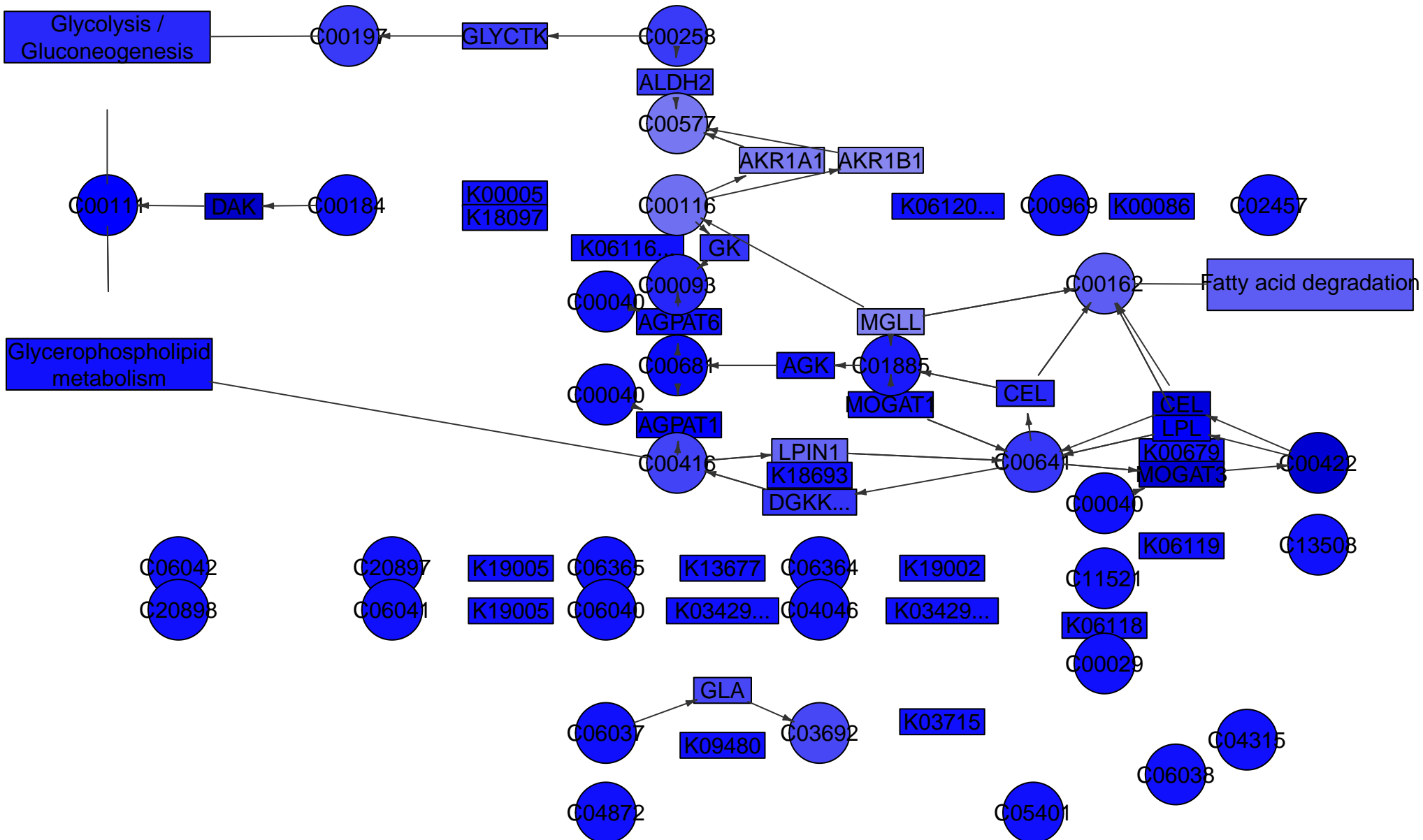
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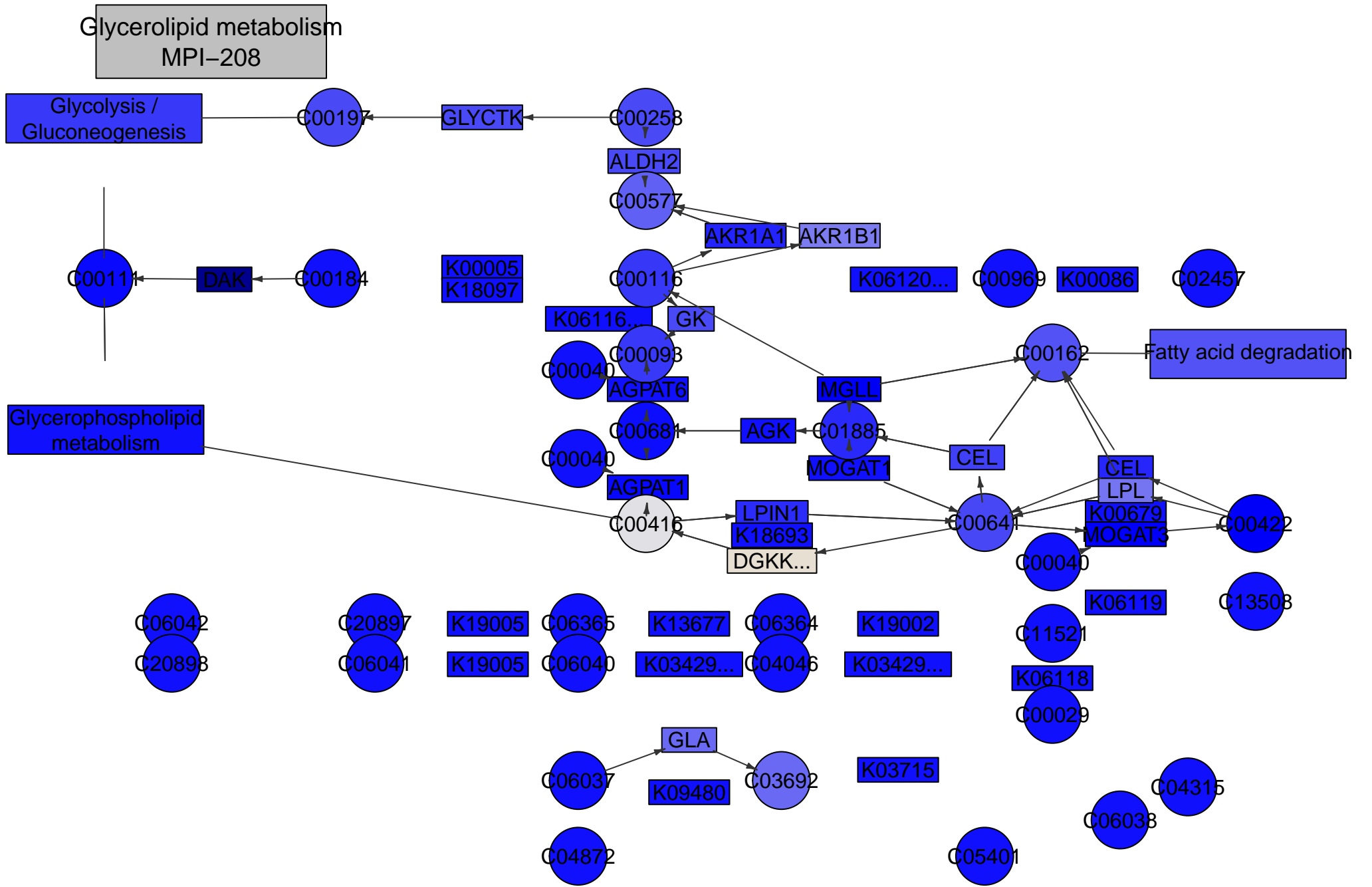
C03692

K03715

C05401

C04315





Glycerolipid metabolism
MPI-209

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

K06116...

C00098

C00040

C00681

C00040

C00416

C06042

C20898

C20897

C06041

C06365

C06040

C06364

C04046

C06037

C04872

C06038

C03692

C05401

C04315

C13508

K00005
K18097

K06116...

C00098

C00040

C00681

C00040

C00416

C06042

C20898

C20897

C06041

C06365

C06040

C06364

C04046

C06037

C04872

C06038

C03692

C05401

C04315

C13508

C00258

ALDH2

C00577

C00115

C00098

C00040

C00681

C00040

C00416

C06042

C20898

C20897

C06041

C06365

C06040

C06364

C04046

C06037

C04872

C06038

C03692

C05401

C04315

C13508

K00005
K18097

K06116...

C00098

C00040

C00681

C00040

C00416

C06042

C20898

C20897

C06041

C06365

C06040

C06364

C04046

C06037

C04872

C06038

C03692

C05401

C04315

C13508

AKR1A1

AKR1B1

GK

MGLL

C01885

MOGAT1

LPIN1

K18693

DGKK...

K13677

K03429...

GLA

K09480

K03715

K06120...

C00969

K00086

C02457

C00162

C00641

C00040

C11521

C00029

C00040

C00040

C00040

C00040

C00040

C00040

C00040

C00040

C00040

C00040

C00040

C00040

C00040

C00040

C00040

C00040

C00040

C00040

Fatty acid degradation

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

C11521

C00029

K06119

C13508

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

C11521

C00029

K06119

C13508

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

C11521

C00029

K06119

C13508

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

C11521

C00029

K06119

C13508

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

C00422

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Glycerophospholipid
metabolism

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C20898

C20897

C06041

K19005

K19005

C06365

C06040

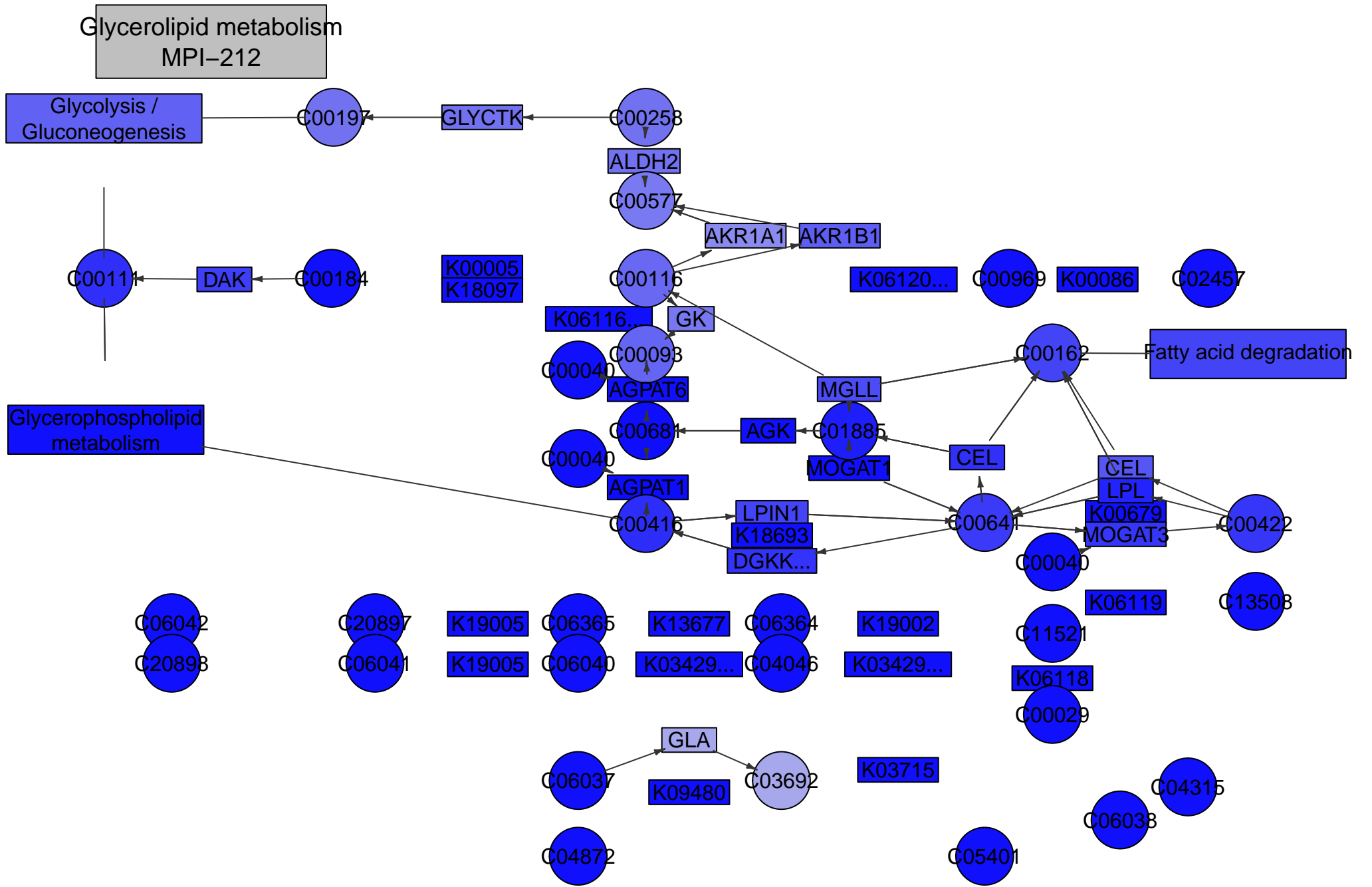
K13677

K03429...

C06364

C04046

K19002



Glycerolipid metabolism
MPI-213

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

ALDH2

C00577

AKR1A1

AKR1B1

C00116

K06120...

C00969

K00086

C02457

K06116...

GK

C00040

C00098

AGPAT6

C00040

C00681

AGPAT1

C00416

C00416

LPIN1

K18693

DGKK...

MGLL

C01885

MOGAT1

CEL

C00641

LPIN1

K18693

DGKK...

C00162

CEL

C00641

CEL

LPL

K00679

MOGAT3

C00040

C11521

K06118

C00029

Fatty acid degradation

C00422

K06119

C13508

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

C00029

C00029

C06037

C04872

GLA

K09480

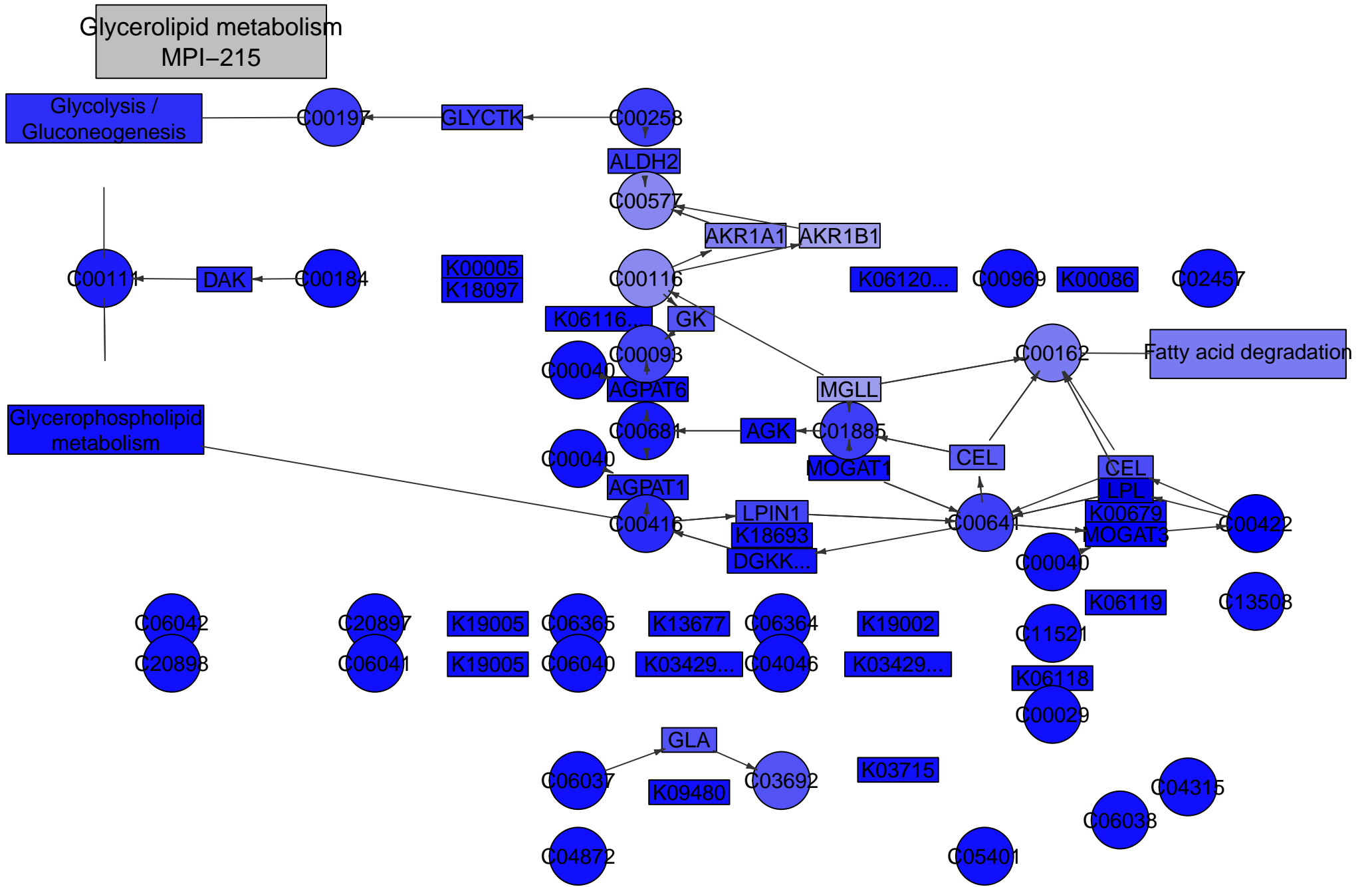
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-219

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119

C13508

C06037
C04872

GLA
K09480

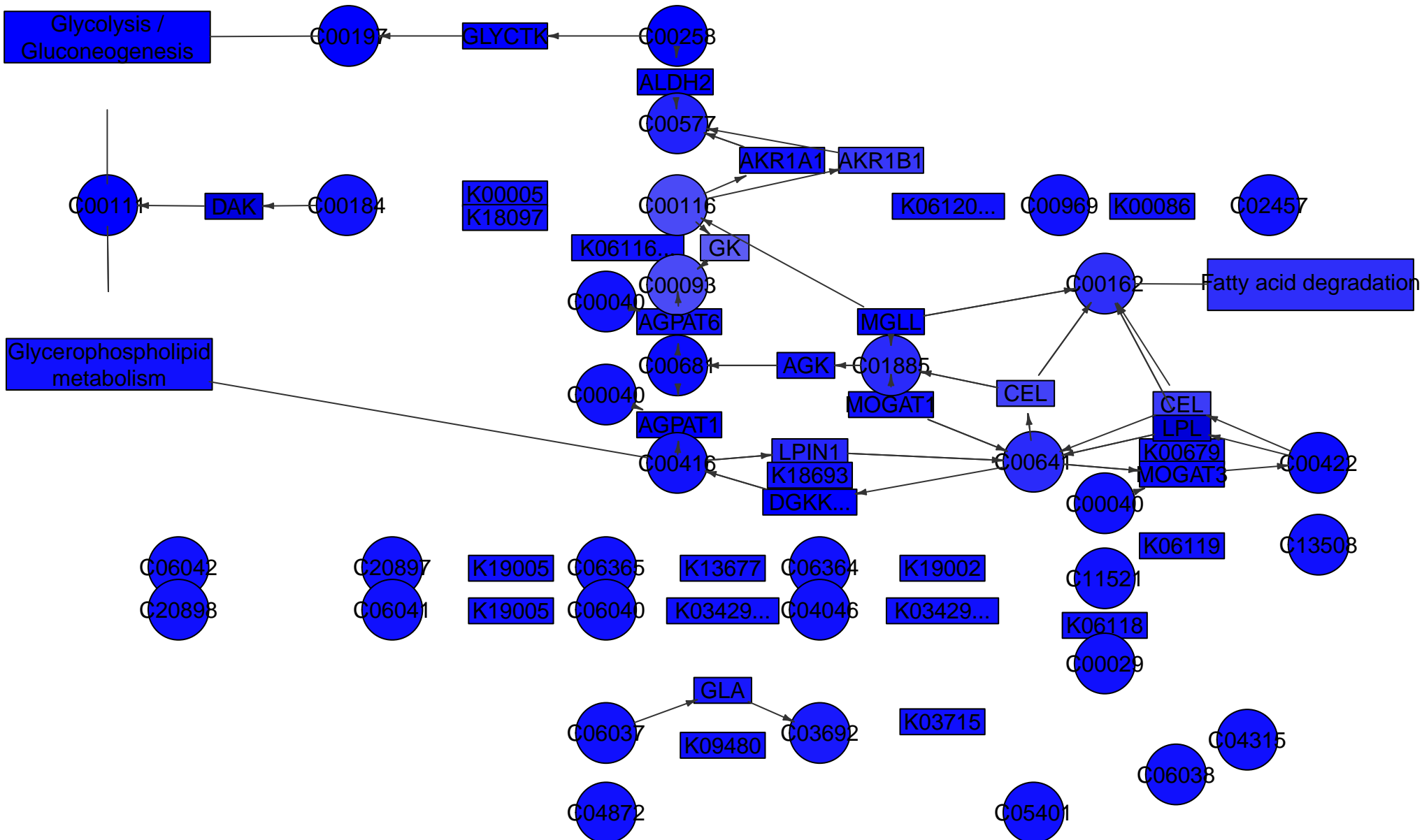
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K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-223a

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

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K06118

C13508

C06037
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GLA
K09480

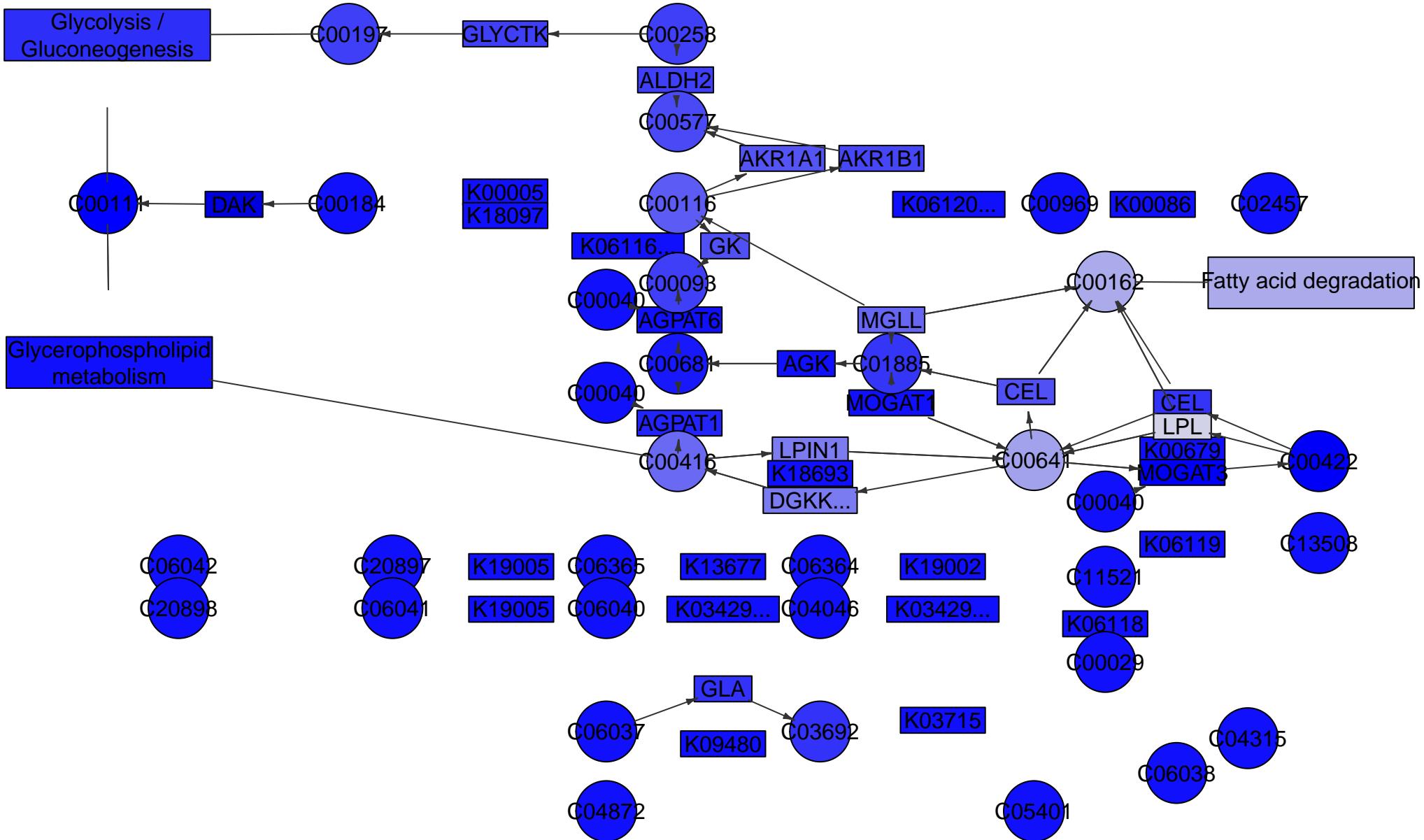
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-224

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
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K19002
K03429...

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K06119

C13508

C06037
C04872

GLA
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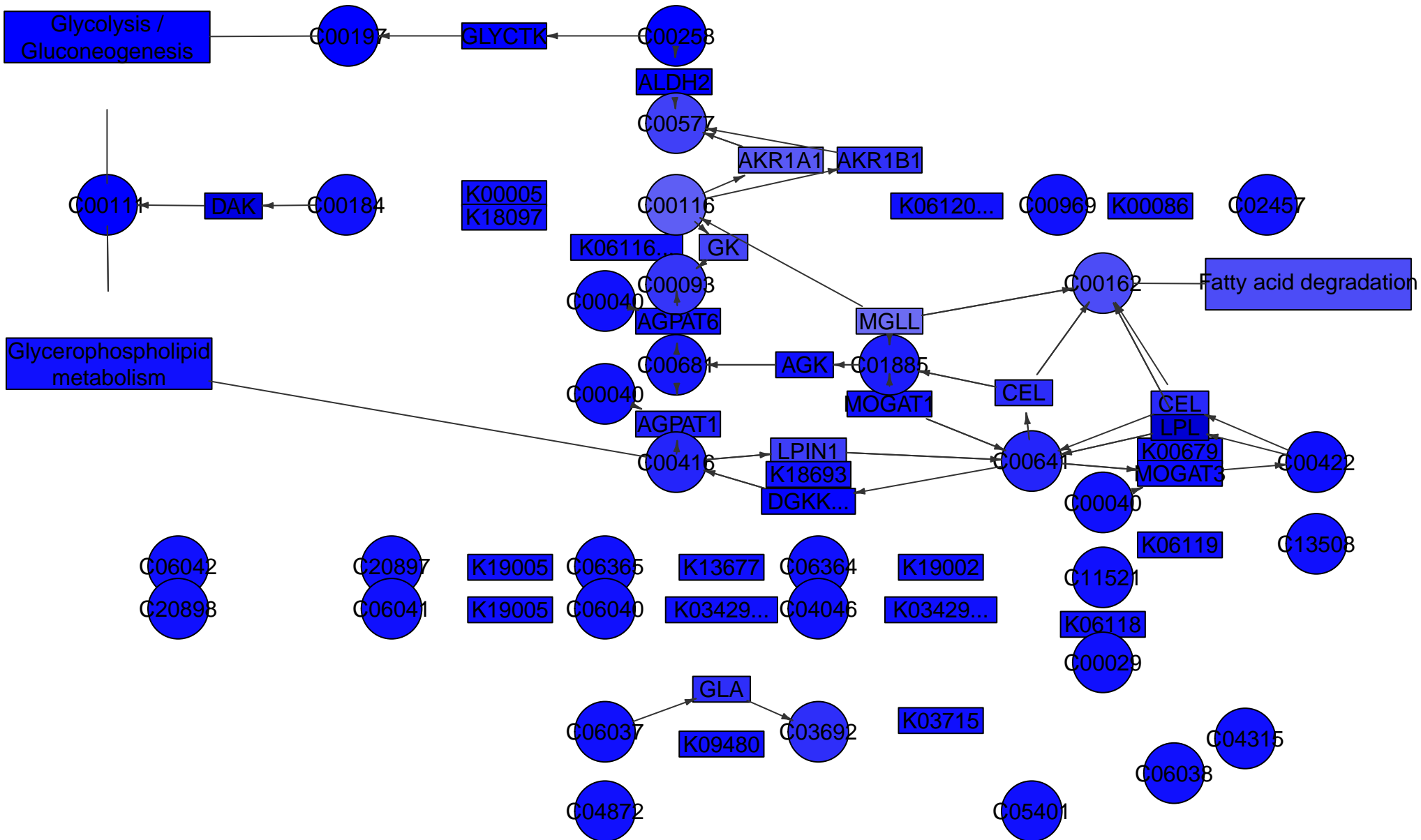
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K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-226

Glycolysis /
Gluconeogenesis

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DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
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K06118

C13508

C06037
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GLA
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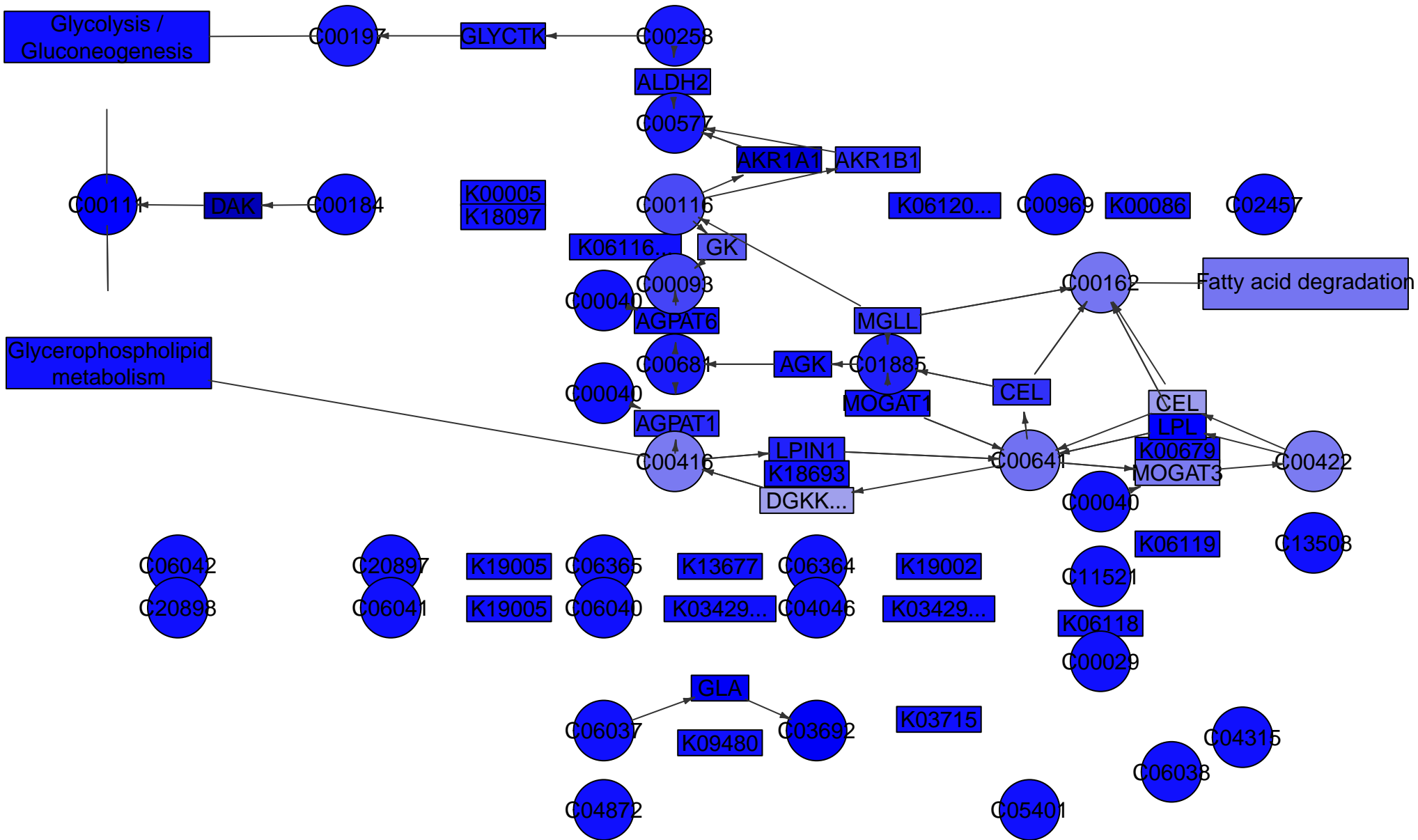
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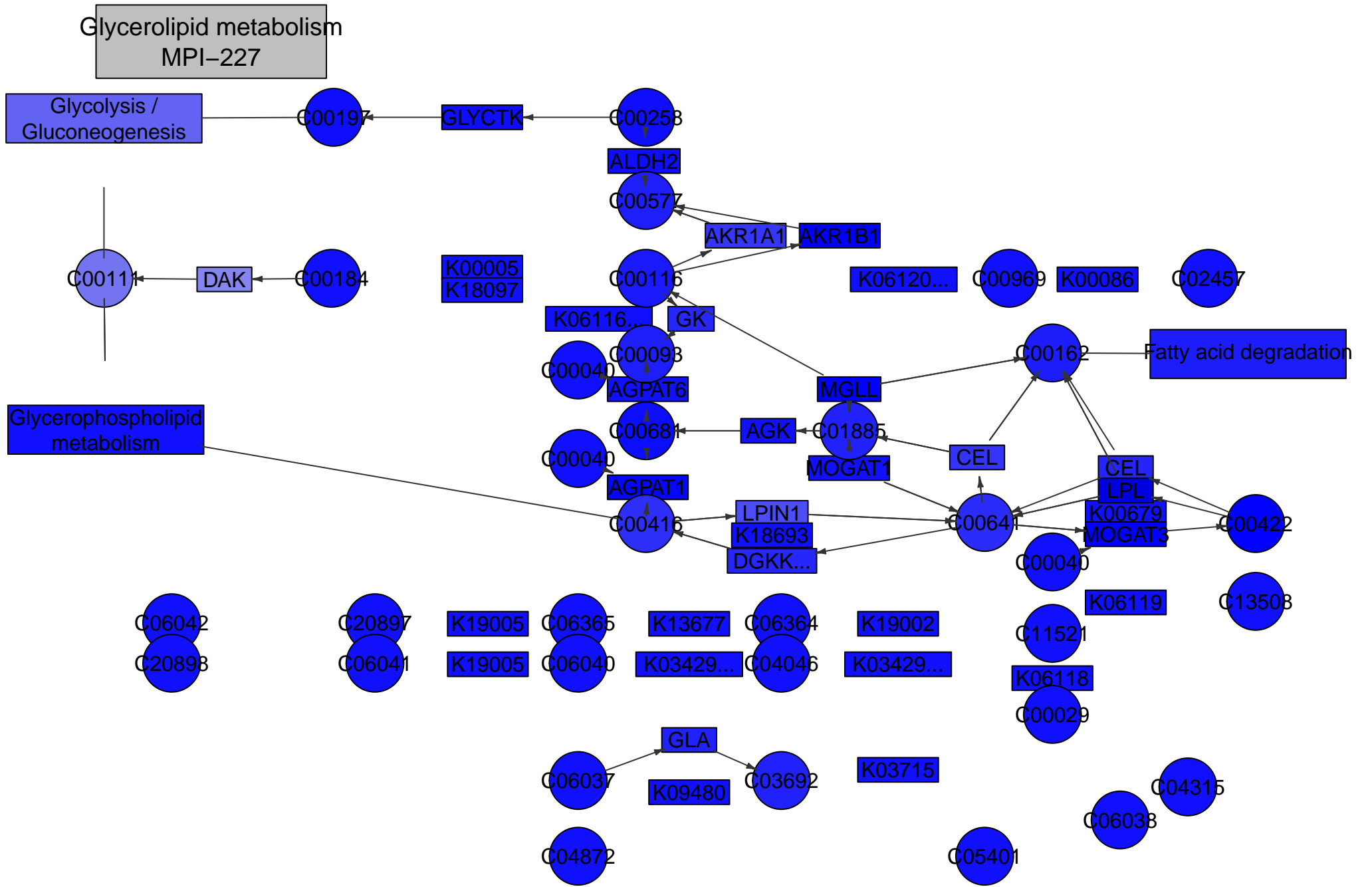
K03715

C05401

C06038

C04315





Glycerolipid metabolism
MPI-228

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

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K06119

K06118

C13508

C06037

C04872

GLA

K09480

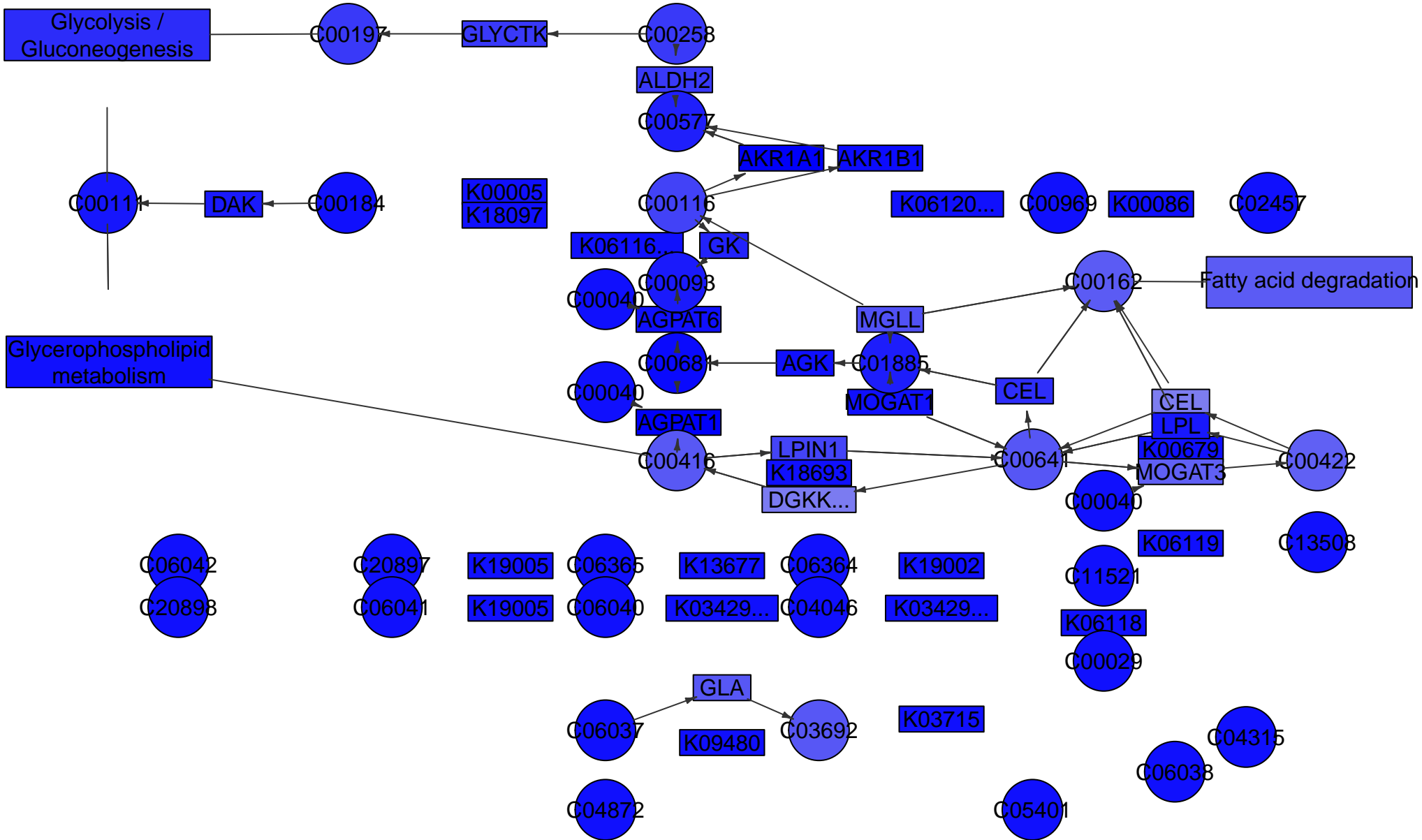
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C05401

C06038

C04315



Glycerolipid metabolism
MPI-230

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
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K19002
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C13508

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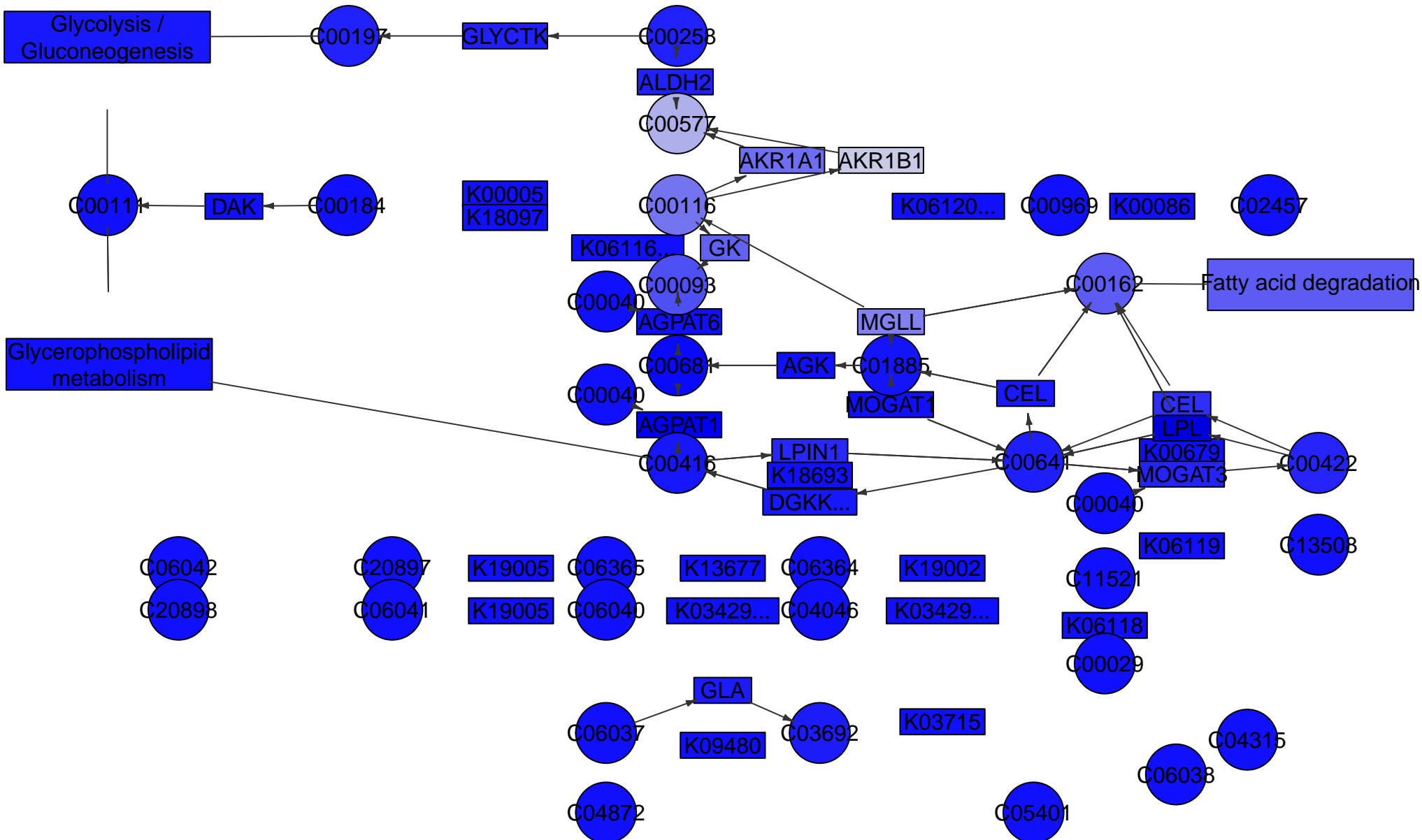
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-231

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
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K06119
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C06037
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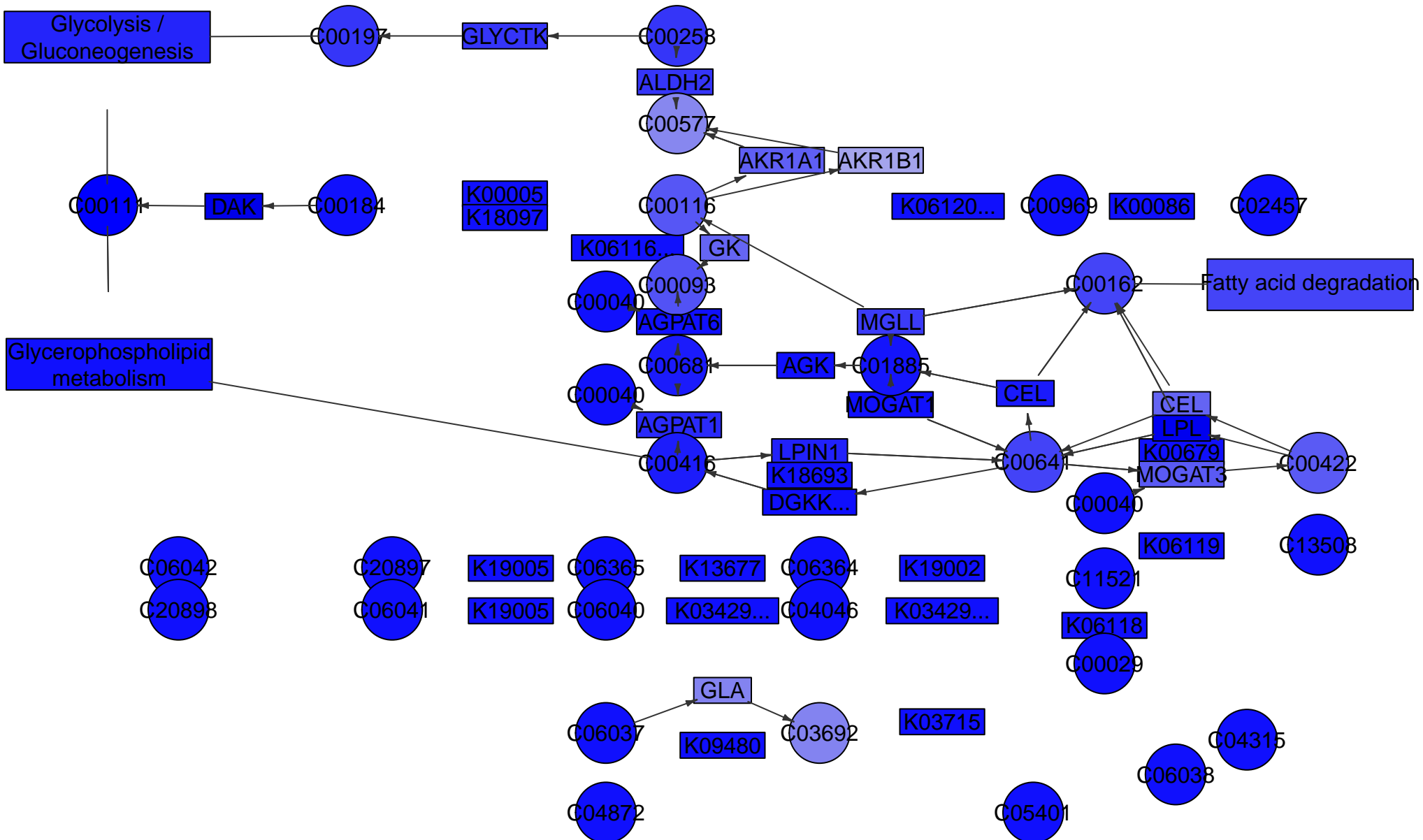
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K03715

C05401

C04315



Glycerolipid metabolism
MPI-232

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

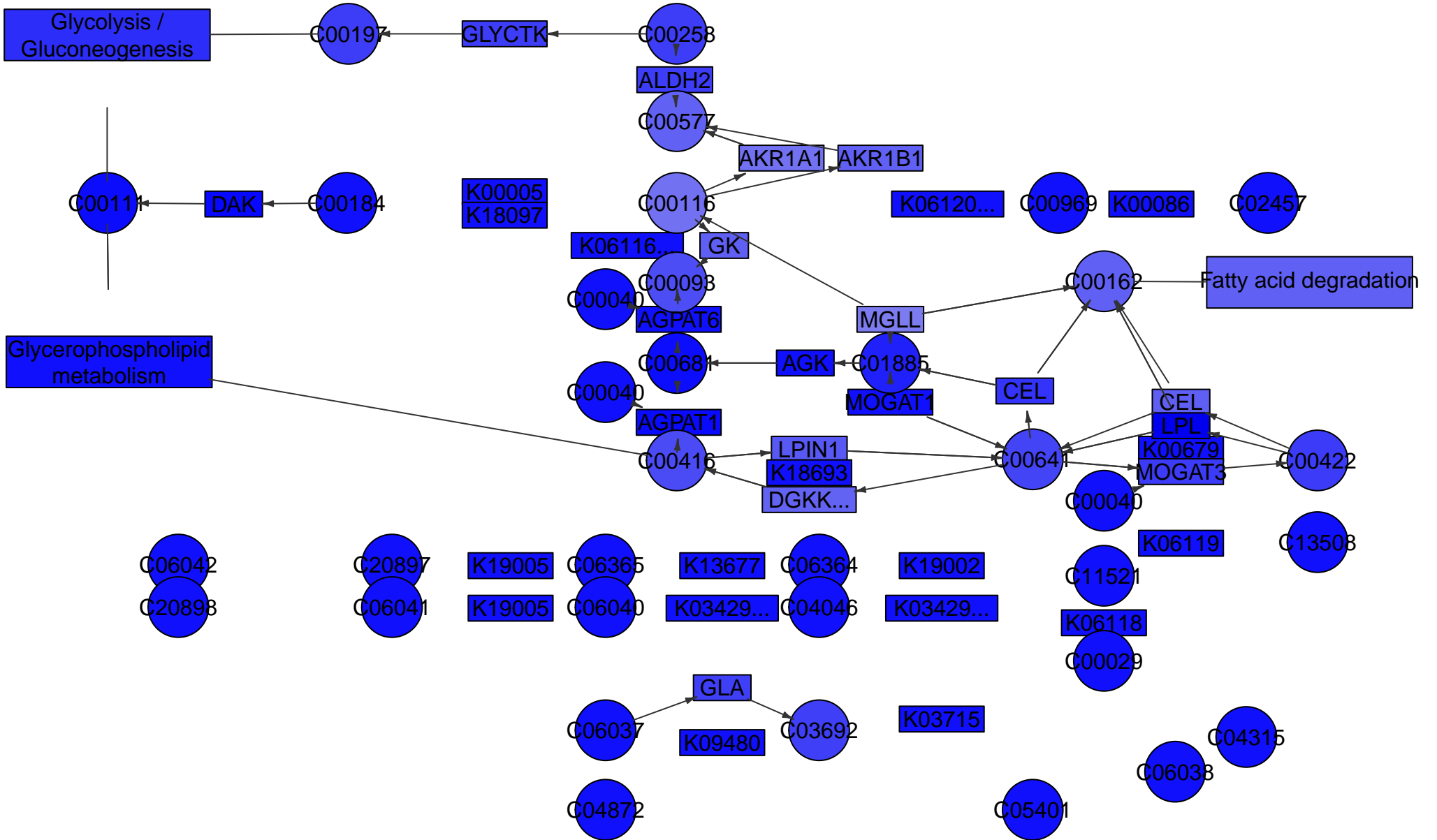
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K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-234

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
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C11521
C00029

K06119

C13508

C06037
C04872

GLA
K09480

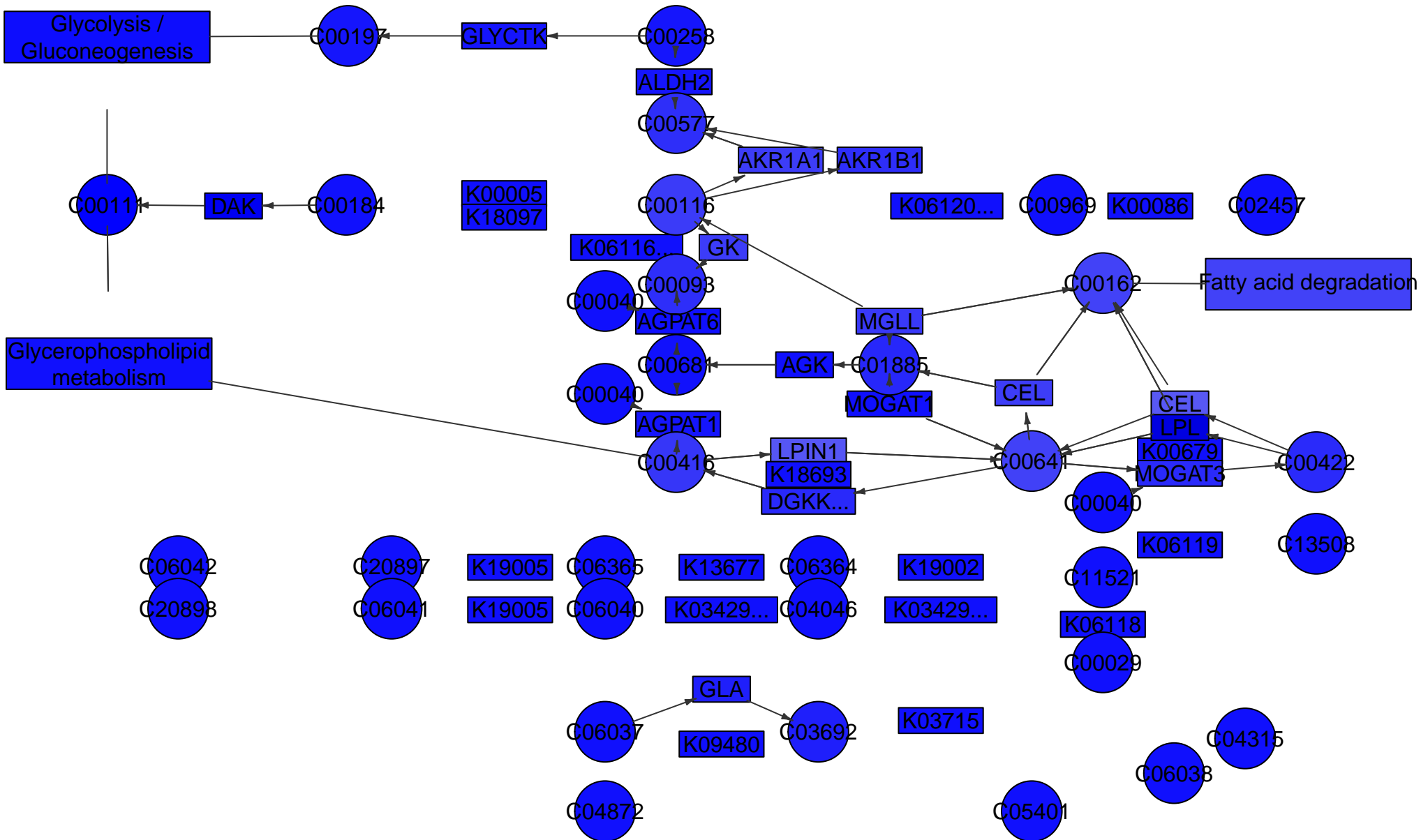
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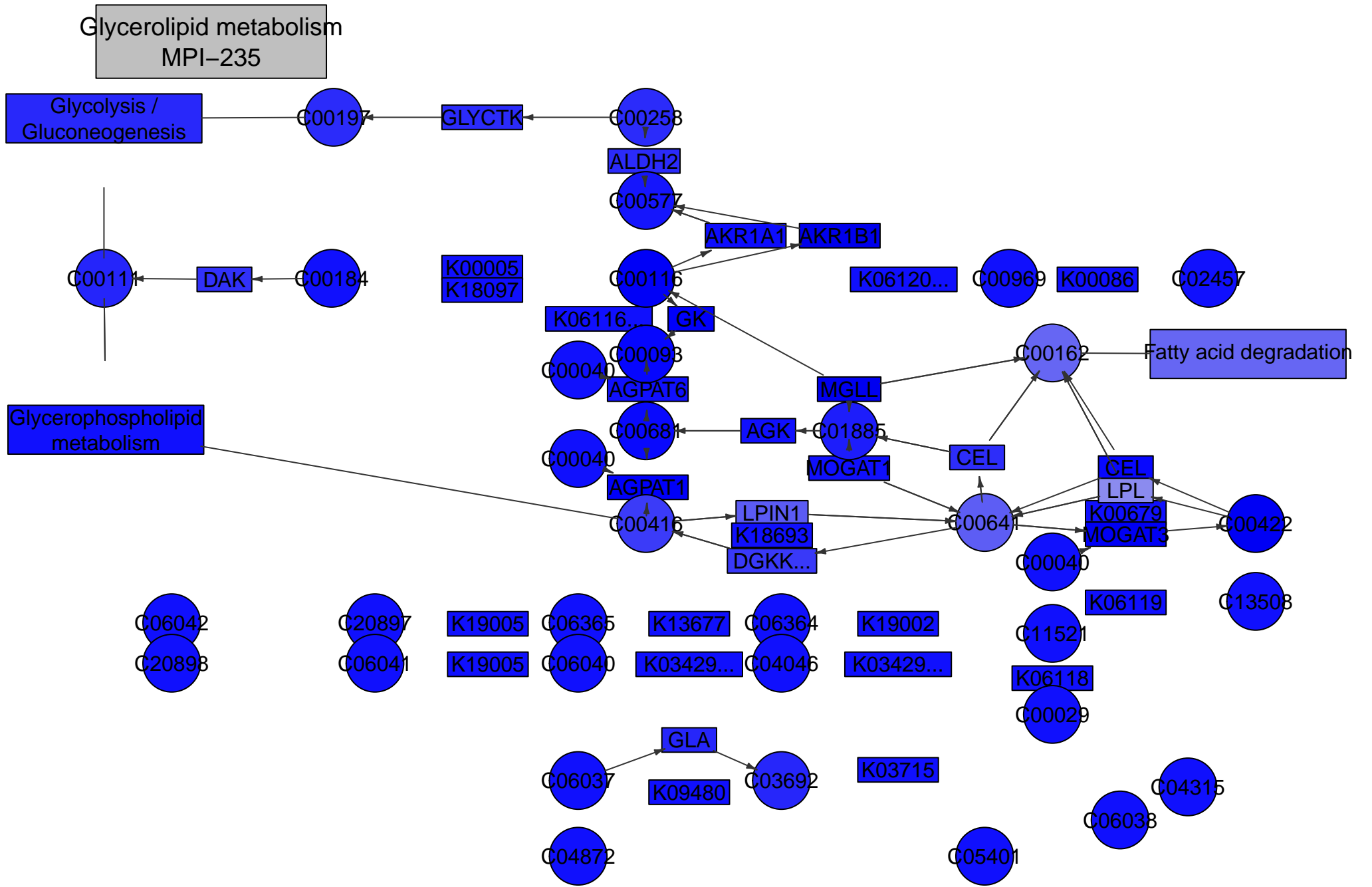
K03715

C05401

C06038

C04315





Glycerolipid metabolism
MPI-236

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C00040
C06038

C13508

C06037
C04872

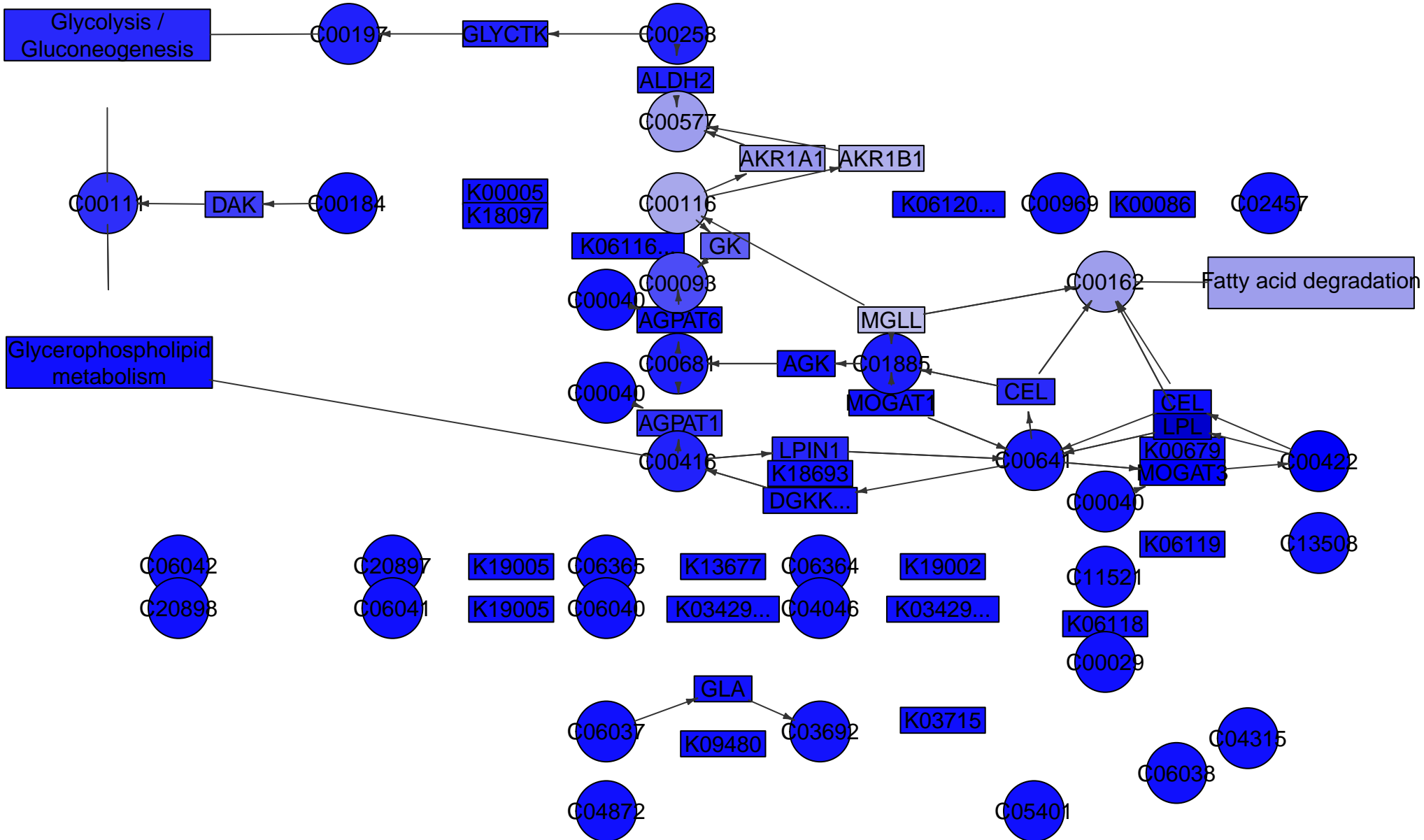
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-237

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

C03692

K03715

C05401

C06038

C04315

K06116...

C00098
C00040

AGPAT6

C00681
C00040

AGPAT1

C00416

GK

K06120...

C00969

K00086

C02457

C00093

MGLL

C00162

Fatty acid degradation

AGK

C01885

CEL

CEL

LPL

K00679

MOGAT3

C00422

LPIN1

K18693

DGKK...

C00641

C00040

C00040

C00040

C11521

K06118

C00029

C06037

K09480

C03692

K03715

C05401

C06038

C04315

C00258

GLYCTK

C00197

ALDH2

C00577

AKR1A1

AKR1B1

C00116

C00093

C00093

C00093

C00681

C00681

C00416

GK

K06120...

C00969

K00086

C02457

C00093

MGLL

C00162

Fatty acid degradation

AGK

C01885

CEL

CEL

LPL

K00679

MOGAT3

C00422

LPIN1

K18693

DGKK...

C00641

C00040

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C11521

K06118

C00029

C06037

K09480

C03692

K03715

C05401

C06038

C04315

C00258

GLYCTK

C00197

ALDH2

C00577

AKR1A1

AKR1B1

C00116

C00093

C00093

C00093

C00681

C00681

C00416

GK

K06120...

C00969

K00086

C02457

C00093

MGLL

C00162

Fatty acid degradation

AGK

C01885

CEL

CEL

LPL

K00679

MOGAT3

C00422

LPIN1

K18693

DGKK...

C00641

C00040

C00040

C00040

C11521

K06118

C00029

C06037

K09480

C03692

K03715

C05401

C06038

C04315

Glycerolipid metabolism
MPI-239

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C00040
C06038

C13508

C06037
C04872

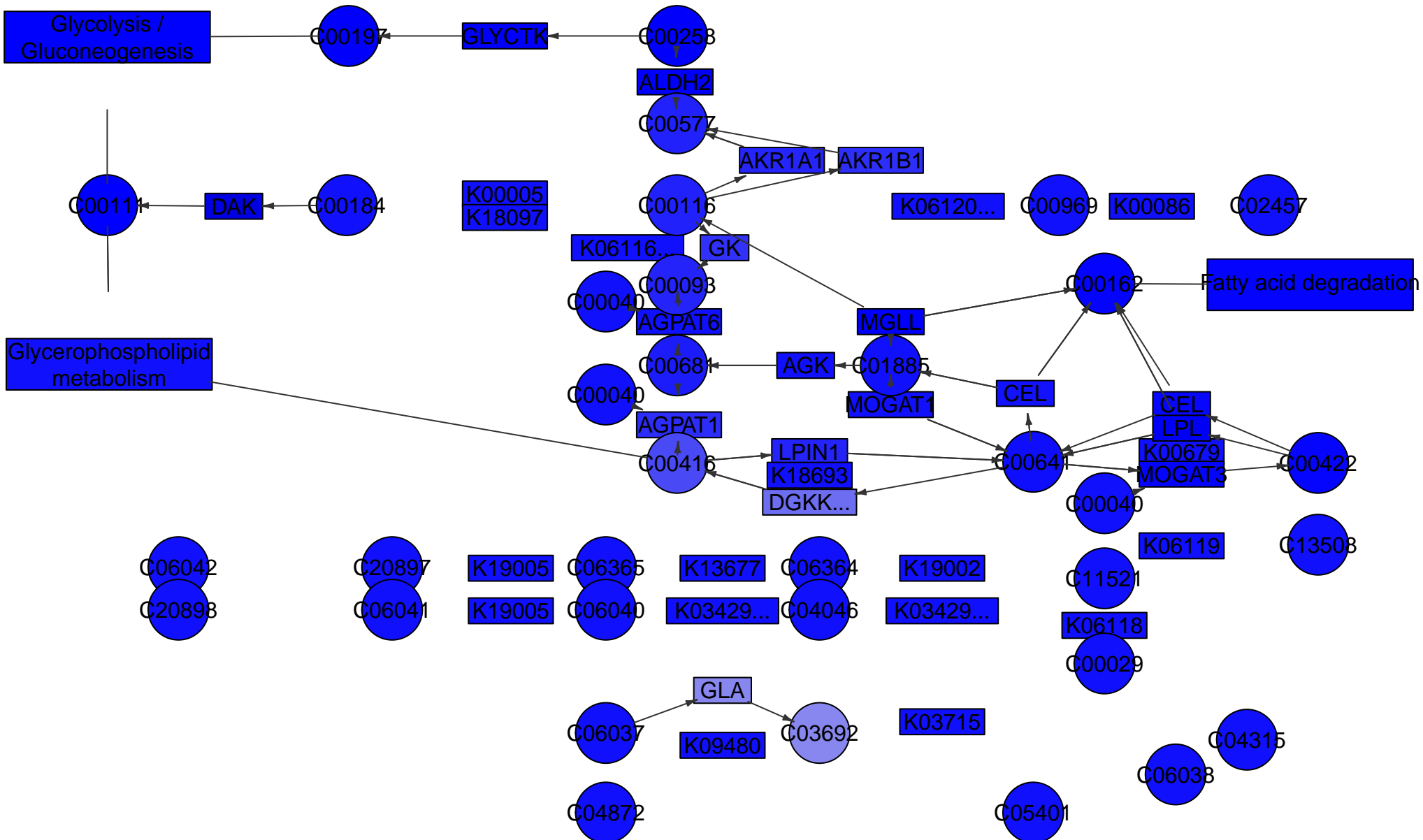
GLA
K09480

C03692

K03715

C05401

C04315



Glycerolipid metabolism
MPI-243

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

K06119
C00040
C06038

C13508

C06037
C04872

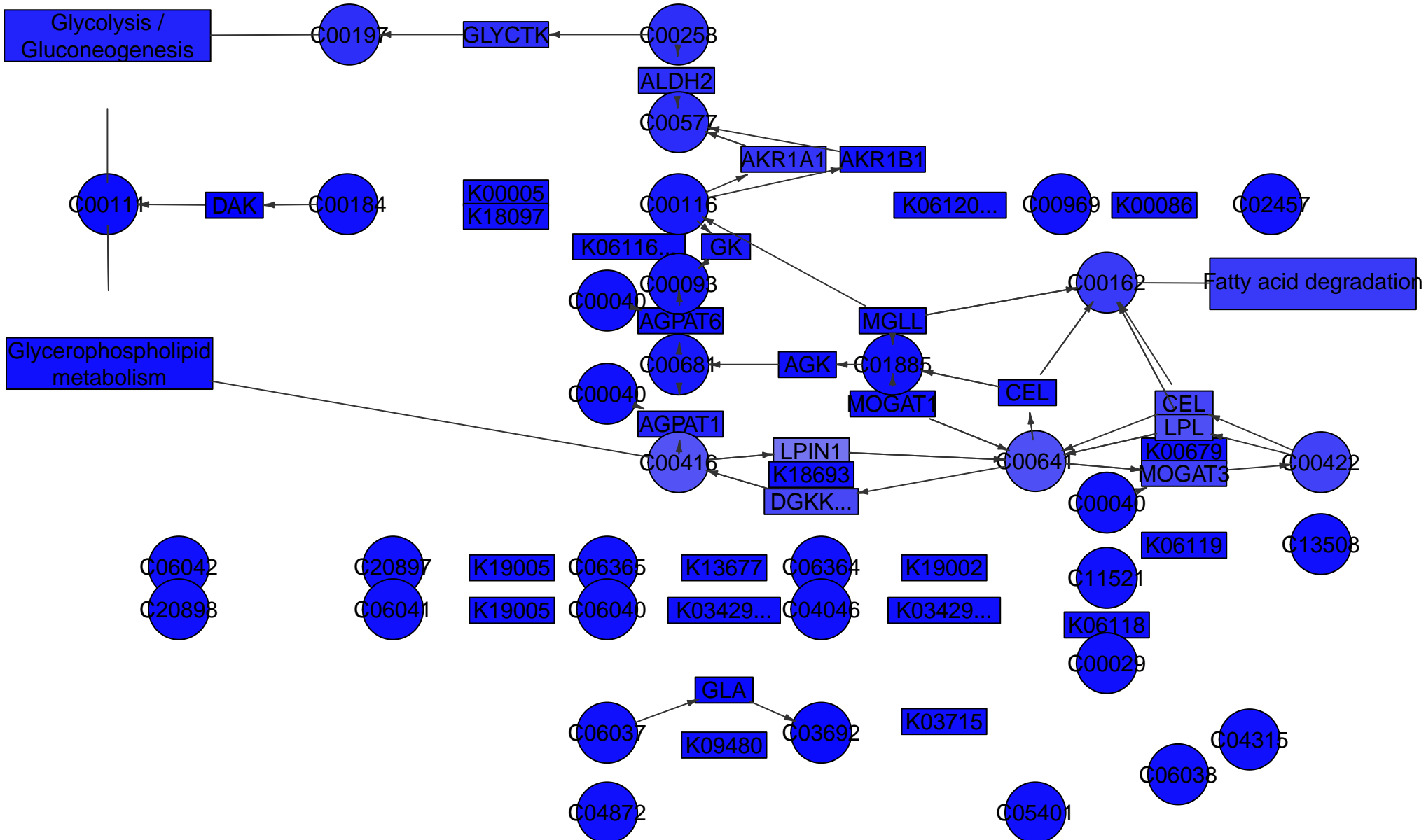
GLA
K09480

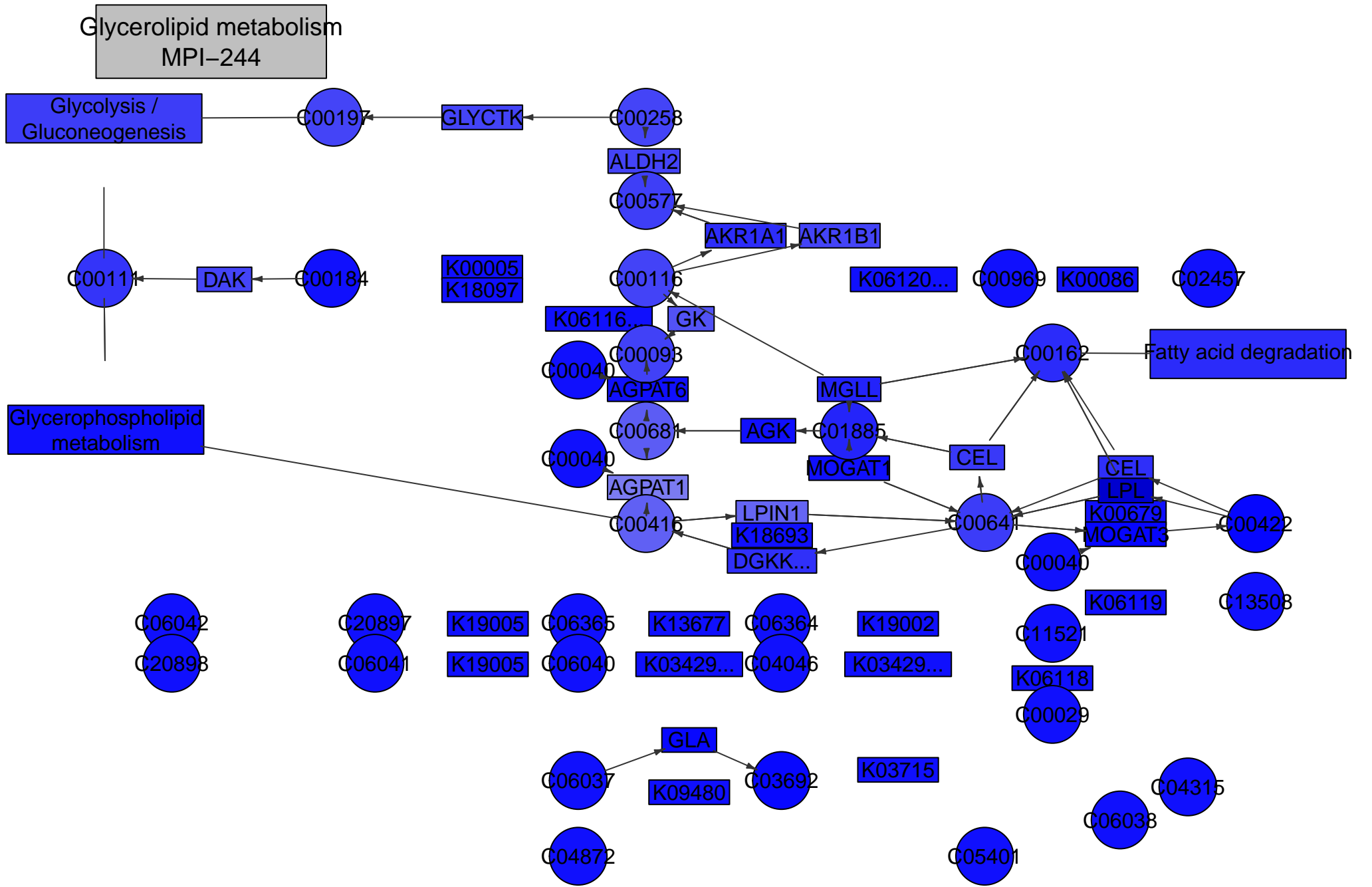
C03692

K03715

C05401

C04315





Glycerolipid metabolism
MPI-246

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

C11521

K06118

K06119

C00029

C13508

C06037

C04872

GLA

K09480

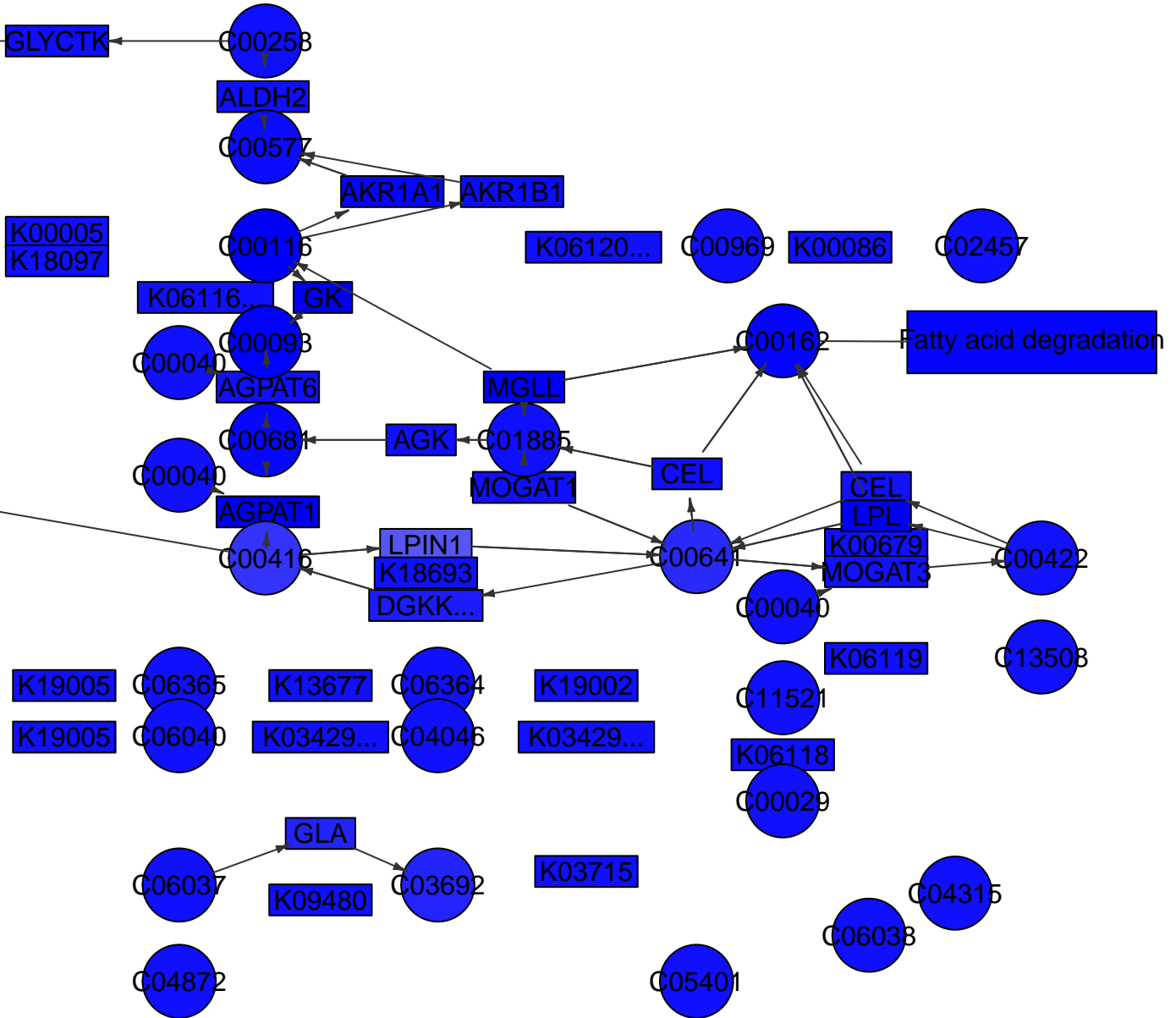
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-247

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
K06118
C00029

C06038
C04315

C13508

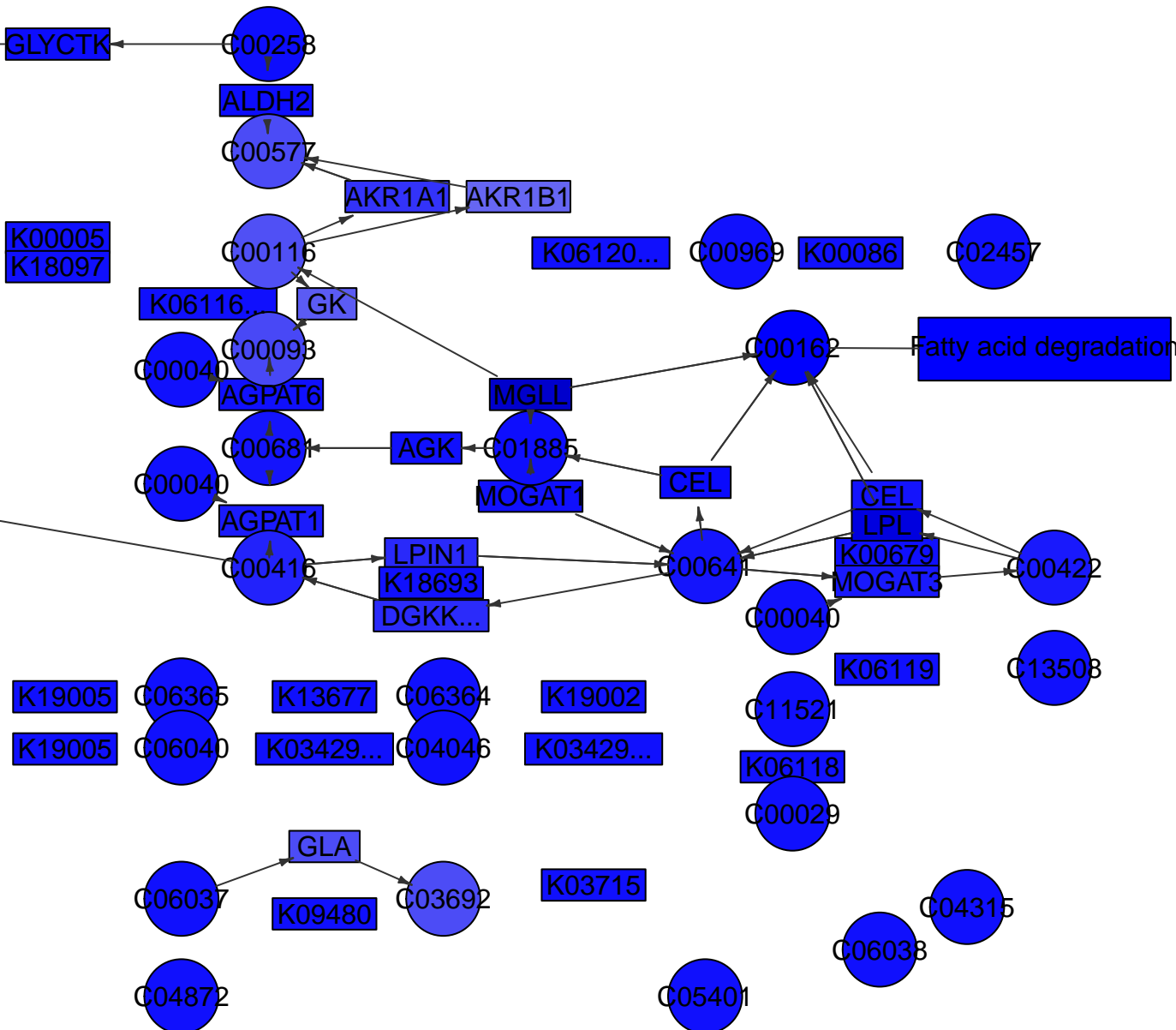
C06037
C04872

GLA
K09480

C03692

K03715

C05401



Glycerolipid metabolism
MPI-251

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042

C20898

C20897

C06041

K19005

K19005

C06365

C06040

K13677

K03429...

C06364

C04046

K19002

K03429...

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K06118

C00029

C13508

C06037

C04872

GLA

K09480

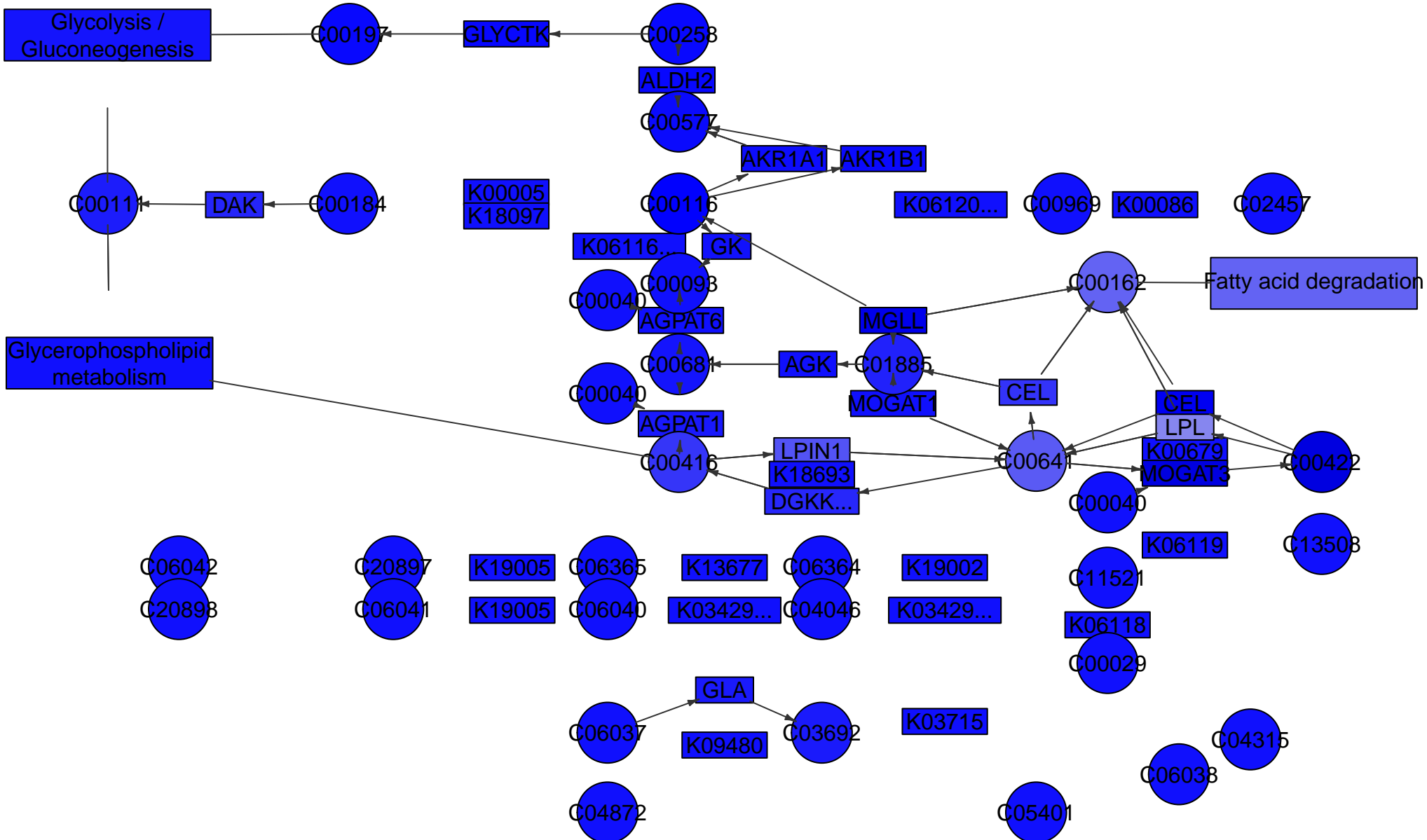
C03692

K03715

C05401

C06038

C04315



Glycerolipid metabolism
MPI-255

Glycolysis /
Gluconeogenesis

C00111

DAK

C00184

K00005
K18097

Glycerophospholipid
metabolism

C06042
C20898

C20897
C06041

K19005
K19005

C06365
C06040

K13677
K03429...

C06364
C04046

K19002
K03429...

C11521
C00029

K06119
K06118

C13508

C06037
C04872

GLA
K09480

C03692

K03715

C05401

C06038

C04315

