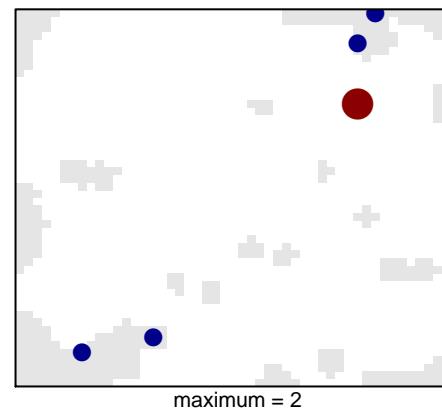# Cyanoamino acid metabolism

all genes

maximum = 2

$\langle \log_{10} s \rangle$

$\log_{10} s_{max}$

mBL

intermediate

non-mBL

Cyanoamino acid metabolism (genes with data)

Tyrosine metabolism

Valine

Phenylalanine metabolism

C00082
K13027
C03004
K13027
C15503
K13027
C04353
K13029
GBA3
C03742 K13030 C05143
K08249

C00407
K14984 K13401
C20310
K14984 K13401
C20311
K14984 K13401
C19491
C20312
K16265
GBA3
C18796 K16266 C08334
K14577
C01326

C00183
K13401 K14984
C20313
K13401 K14984
C20314
K13401 K14984
C03219
C20315
K16265
GBA3 K16266
C02659 C01594
K14577 K13033

C00079
K12153
C19712
K12153
C19715
K12153
C19714
C16075 K10566 C16074
K13032
GBA3
C00561 C00844
K13039 GBA3
K08248 C08325

D-Alanine metabolism
D-Arginine and
D-ornithine metabolism
Selenocompound metabolism C05401 K01501 C05714

Alanine C00302 K01501 C05715

D-Glutamine and
D-glutamate metabolism

K18282 C00014 Nitrogen metabolism
K10675 C00048 K01455
K10814..C00037 SHMT C00065 Glycine
Glutathione metabolism C00097 Cysteine and methionine metabolism

K13034
C05711 GGT6...
C06114 GGT6...C05670 C02512
K13035
beta-Alanine metabolism C00049 K13035
K01914 K01424
C00152

Cyanoamino acid metabolism (sink nodes)

Tyrosine metabolism

C00082
K13027
C03004
K13027
C15503
K13027

C04353
K13029
C03742 K13030 C05143
K08249

Valine

C00407
K14984 K13401
C20310
K14984 K13401
C20311
K14984 K13401
C19491

C20312
K16265
C18796 K16266 C08334
K14577
C01326

C00183
K13401 K14984
C20313
K13401 K14984
C20314
K13401 K14984
C03219

C20315
K16265
C02659 K16266 C01594
K14577 K13033

Phenylalanine metabolism

C00079
K12153
C19712
K12153
C19715
K12153
C19714

C16075 K10566 C16074
K13032
C00561 GBA3 C00844
K13031 GBA3
C08325

GBA3

D−Alanine metabolism
D−Arginine and
D−ornithine metabolism
Selenocompound metabolism C05401 K01501 C05714

Alanine C00302 K01501 C05715
D−Glutamine and
D−glutamate metabolism

K18282 C00014 Nitrogen metabolism
K10675 C00048 K01455
K10814.. C00035 SHMT C00065 Glycine
Glutathione metabolism C00097 Cysteine and methionine metabolism

K13034
C05711 GGT6...
C06114 GGT6... C05670 C02512
K13035
C00049 K13035
beta−Alanine metabolism
K01914 K01424
C00152