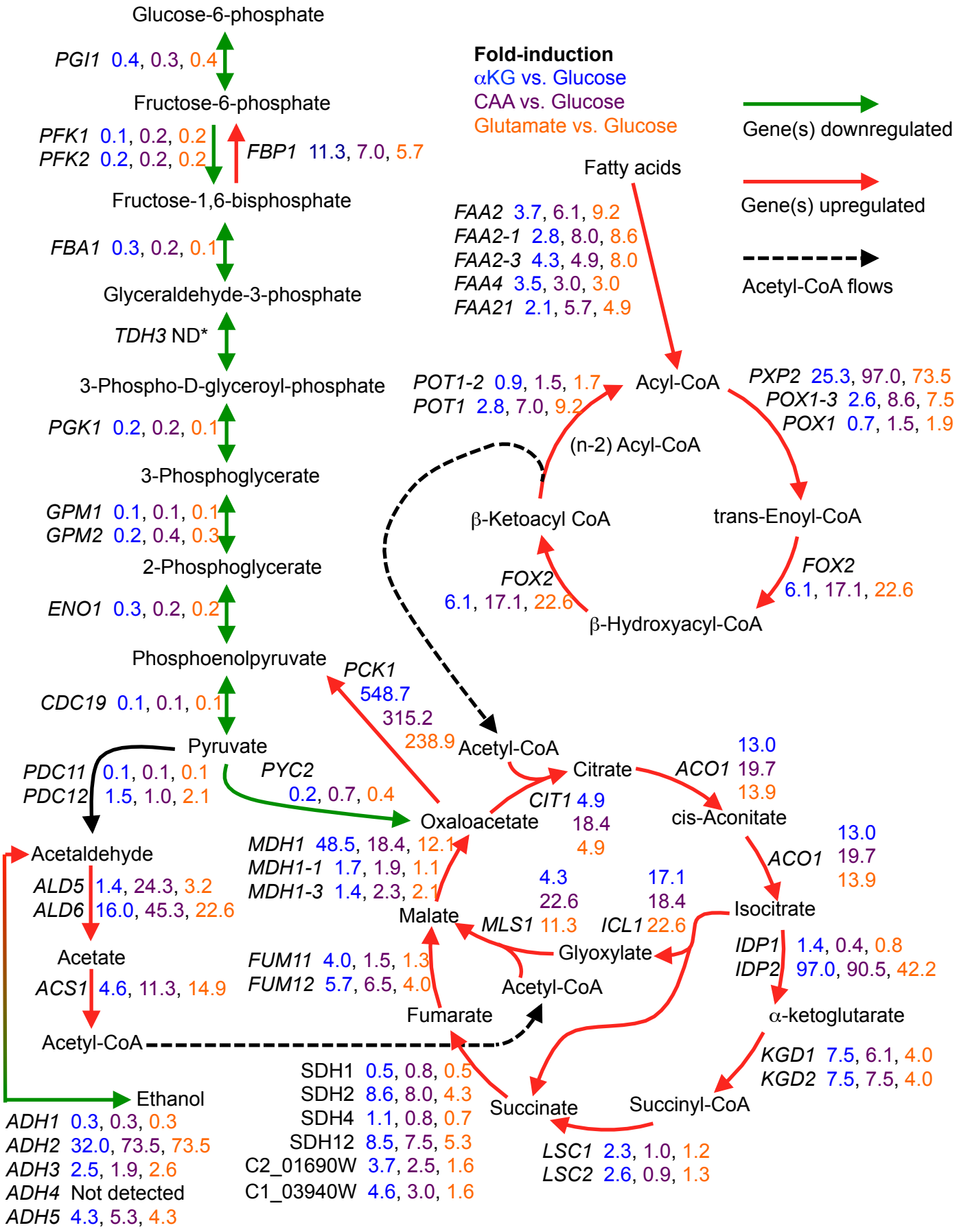
Glucose-6-phosphate
PGI1 0.4, 0.3, 0.4
Fructose-6-phosphate
PFK1 0.1, 0.2, 0.2
PFK2 0.2, 0.2, 0.2
FBP1 11.3, 7.0, 5.7
Fructose-1,6-bisphosphate
FBA1 0.3, 0.2, 0.1
Glyceraldehyde-3-phosphate
TDH3 ND*
3-Phospho-D-glyceroyl-phosphate
PGK1 0.2, 0.2, 0.1
3-Phosphoglycerate
GPM1 0.1, 0.1, 0.1
GPM2 0.2, 0.4, 0.3
2-Phosphoglycerate
ENO1 0.3, 0.2, 0.2
Phosphoenolpyruvate
CDC19 0.1, 0.1, 0.1
Pyruvate
PDC11 0.1, 0.1, 0.1
PDC12 1.5, 1.0, 2.1
PYC2 0.2, 0.7, 0.4
Acetaldehyde
ALD5 1.4, 24.3, 3.2
ALD6 16.0, 45.3, 22.6
Acetate
ACS1 4.6, 11.3, 14.9
Acetyl-CoA
Ethanol
ADH1 0.3, 0.3, 0.3
ADH2 32.0, 73.5, 73.5
ADH3 2.5, 1.9, 2.6
ADH4 Not detected
ADH5 4.3, 5.3, 4.3
Fold-induction
αKG vs. Glucose
CAA vs. Glucose
Glutamate vs. Glucose
Gene(s) downregulated
Gene(s) upregulated
Acetyl-CoA flows
Fatty acids
FAA2 3.7, 6.1, 9.2
FAA2-1 2.8, 8.0, 8.6
FAA2-3 4.3, 4.9, 8.0
FAA4 3.5, 3.0, 3.0
FAA21 2.1, 5.7, 4.9
Acyl-CoA
POT1-2 0.9, 1.5, 1.7
POT1 2.8, 7.0, 9.2
PXP2 25.3, 97.0, 73.5
POX1-3 2.6, 8.6, 7.5
POX1 0.7, 1.5, 1.9
(n-2) Acyl-CoA
β-Ketoacyl CoA
trans-Enoyl-CoA
FOX2
6.1, 17.1, 22.6
FOX2
6.1, 17.1, 22.6
β-Hydroxyacyl-CoA
PCK1
548.7
315.2
238.9
Acetyl-CoA
Citrate
CIT1 4.9
18.4
4.9
ACO1 13.0
19.7
13.9
cis-Aconitate
ACO1 13.0
19.7
13.9
Isocitrate
Oxaloacetate
MDH1 48.5, 18.4, 12.1
MDH1-1 1.7, 1.9, 1.1
MDH1-3 1.4, 2.3, 2.1
Malate
MLS1 11.3
4.3
22.6
ICL1 22.6
17.1
18.4
Glyoxylate
Acetyl-CoA
FUM11 4.0, 1.5, 1.3
FUM12 5.7, 6.5, 4.0
Fumarate
IDP1 1.4, 0.4, 0.8
IDP2 97.0, 90.5, 42.2
α-ketoglutarate
KGD1 7.5, 6.1, 4.0
KGD2 7.5, 7.5, 4.0
Succinyl-CoA
Succinate
SDH1 0.5, 0.8, 0.5
SDH2 8.6, 8.0, 4.3
SDH4 1.1, 0.8, 0.7
SDH12 8.5, 7.5, 5.3
C2_01690W 3.7, 2.5, 1.6
C1_03940W 4.6, 3.0, 1.6
LSC1 2.3, 1.0, 1.2
LSC2 2.6, 0.9, 1.3