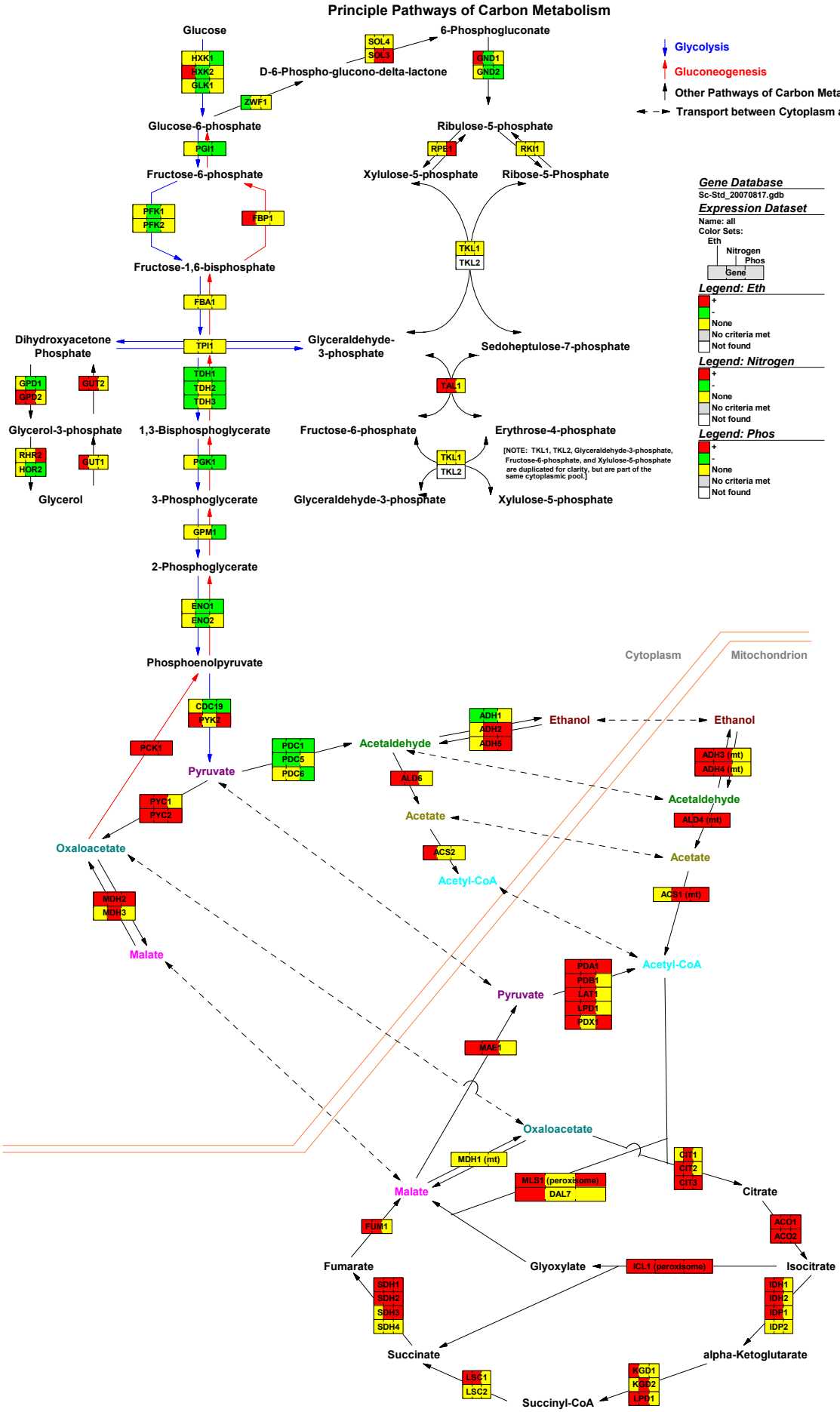
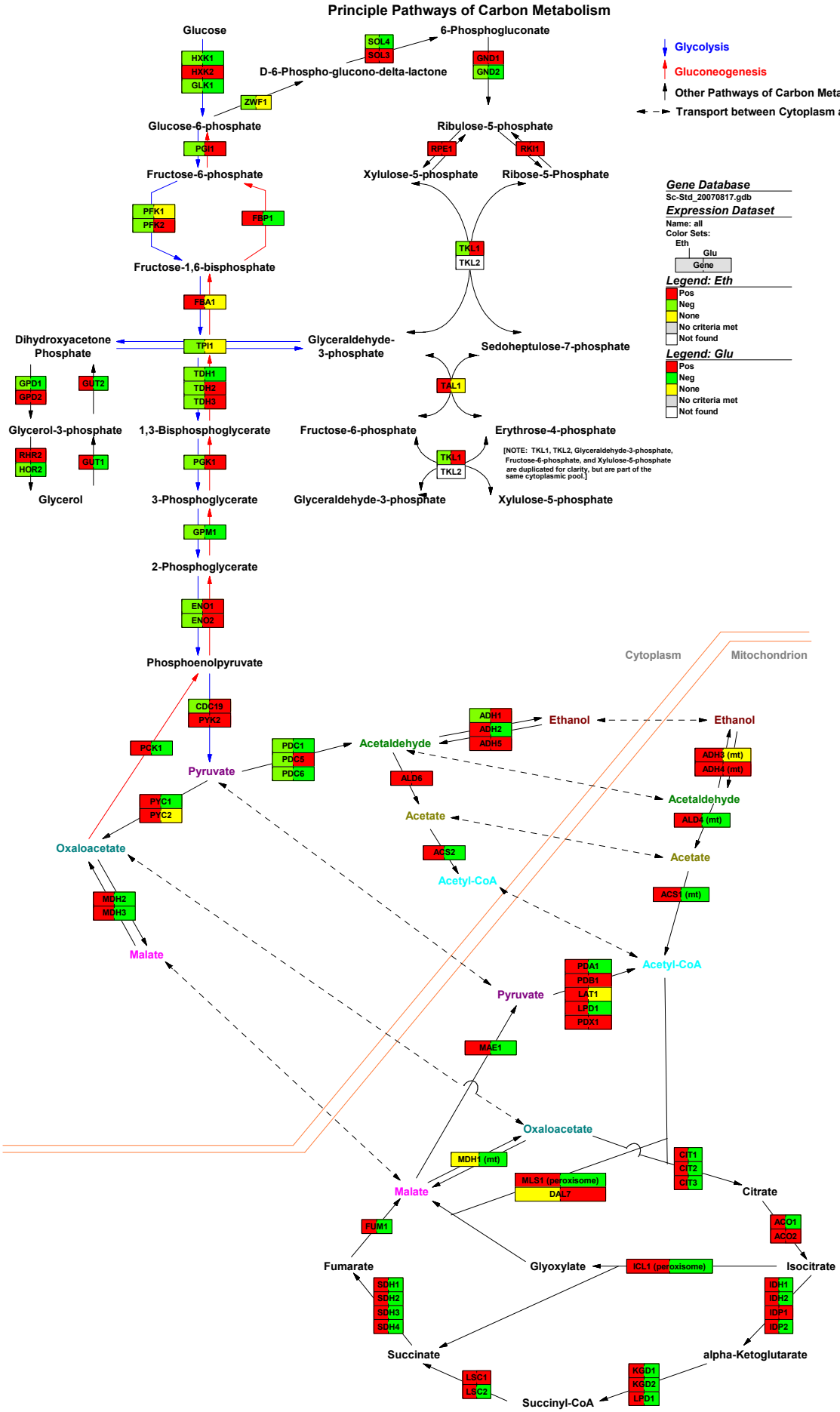

Principle Pathways of Carbon Metabolism
Glycolysis
Gluconeogenesis
Other Pathways of Carbon Metabolism
Transport between Cytoplasm and Mitochondrion
Gene Database
Sc-Std_20070817.gdb
Expression Dataset
Name: all
Color Sets:
Eth
Nitrogen
Phos
Gene
Legend: Eth
Legend: Nitrogen
Legend: Phos
+
-
None
No criteria met
Not found
Glucose
HXK1
HXK2
GLK1
Glucose-6-phosphate
PGI1
Fructose-6-phosphate
PFK1
PFK2
FBP1
Fructose-1,6-bisphosphate
FBA1
Dihydroxyacetone Phosphate
TPI1
Glyceraldehyde-3-phosphate
GPD1
GPD2
GUT2
Glycerol-3-phosphate
RHR2
HOR2
GUT1
Glycerol
TDH1
TDH2
TDH3
1,3-Bisphosphoglycerate
PGK1
3-Phosphoglycerate
GPM1
2-Phosphoglycerate
ENO1
ENO2
Phosphoenolpyruvate
CDC19
PYK2
Pyruvate
PCK1
PYC1
PYC2
Oxaloacetate
MDH2
MDH3
Malate
SOL4
SOL3
D-6-Phospho-glucono-delta-lactone
6-Phosphogluconate
GND1
GND2
ZWF1
Ribulose-5-phosphate
RPE1
RKI1
Xylulose-5-phosphate
Ribose-5-Phosphate
TKL1
TKL2
Sedoheptulose-7-phosphate
TAL1
Fructose-6-phosphate
Erythrose-4-phosphate
Glyceraldehyde-3-phosphate
Xylulose-5-phosphate
[NOTE: TKL1, TKL2, Glyceraldehyde-3-phosphate, Fructose-6-phosphate, and Xylulose-5-phosphate are duplicated for clarity, but are part of the same cytoplasmic pool.]
Cytoplasm
Mitochondrion
PDC1
PDC5
PDC6
Acetaldehyde
ADH1
ADH2
ADH5
Ethanol
ALD6
Acetate
ACS2
Acetyl-CoA
ADH3 (mt)
ADH4 (mt)
ALD4 (mt)
ACS1 (mt)
PDA1
PDB1
LAT1
LPD1
PDX1
MAE1
MDH1 (mt)
MLS1 (peroxisome)
DAL7
CIT1
CIT2
CIT3
Citrate
ACO1
ACO2
Isocitrate
IDH1
IDH2
IDP1
IDP2
alpha-Ketoglutarate
KGD1
KGD2
LPD1
Succinyl-CoA
LSC1
LSC2
Succinate
SDH1
SDH2
SDH3
SDH4
Fumarate
FUM1
Glyoxylate
ICL1 (peroxisome)


Principle Pathways of Carbon Metabolism
Glycolysis
Gluconeogenesis
Other Pathways of Carbon Metabolism
Transport between Cytoplasm and Mitochondrion
Gene Database
Sc-Std_20070817.gdb
Expression Dataset
Name: all
Color Sets:
Eth
Glu
Gene
Legend: Eth
Pos
Neg
None
No criteria met
Not found
Legend: Glu
Pos
Neg
None
No criteria met
Not found
Glucose
HXK1
HXK2
GLK1
Glucose-6-phosphate
PGI1
Fructose-6-phosphate
PFK1
PFK2
FBP1
Fructose-1,6-bisphosphate
FBA1
Dihydroxyacetone Phosphate
TPI1
Glyceraldehyde-3-phosphate
GPD1
GPD2
GUT2
Glycerol-3-phosphate
RHR2
HOR2
GUT1
Glycerol
TDH1
TDH2
TDH3
1,3-Bisphosphoglycerate
PGK1
3-Phosphoglycerate
GPM1
2-Phosphoglycerate
ENO1
ENO2
Phosphoenolpyruvate
CDC19
PYK2
Pyruvate
PCK1
PYC1
PYC2
Oxaloacetate
MDH2
MDH3
Malate
SOL4
SOL3
D-6-Phospho-glucono-delta-lactone
6-Phosphogluconate
GND1
GND2
ZWF1
Ribulose-5-phosphate
RPE1
RKI1
Xylulose-5-phosphate
Ribose-5-Phosphate
TKL1
TKL2
Sedoheptulose-7-phosphate
TAL1
Fructose-6-phosphate
Erythrose-4-phosphate
TKL1
TKL2
Glyceraldehyde-3-phosphate
Xylulose-5-phosphate
[NOTE: TKL1, TKL2, Glyceraldehyde-3-phosphate, Fructose-6-phosphate, and Xylulose-5-phosphate are duplicated for clarity, but are part of the same cytoplasmic pool.]
Cytoplasm
Mitochondrion
PDC1
PDC5
PDC6
Acetaldehyde
ADH1
ADH2
ADH5
Ethanol
Ethanol
ADH3 (mt)
ADH4 (mt)
Acetaldehyde
ALD6
ALD4 (mt)
Acetate
Acetate
ACS2
ACS1 (mt)
Acetyl-CoA
Acetyl-CoA
PDA1
PDB1
LAT1
LPD1
PDX1
Pyruvate
MAE1
Oxaloacetate
MDH1 (mt)
MLS1 (peroxisome)
DAL7
Malate
CIT1
CIT2
CIT3
Citrate
ACO1
ACO2
Isocitrate
FUM1
Fumarate
Glyoxylate
ICL1 (peroxisome)
SDH1
SDH2
SDH3
SDH4
Succinate
IDH1
IDH2
IDP1
IDP2
alpha-Ketoglutarate
LSC1
LSC2
Succinyl-CoA
KGD1
KGD2
LPD1