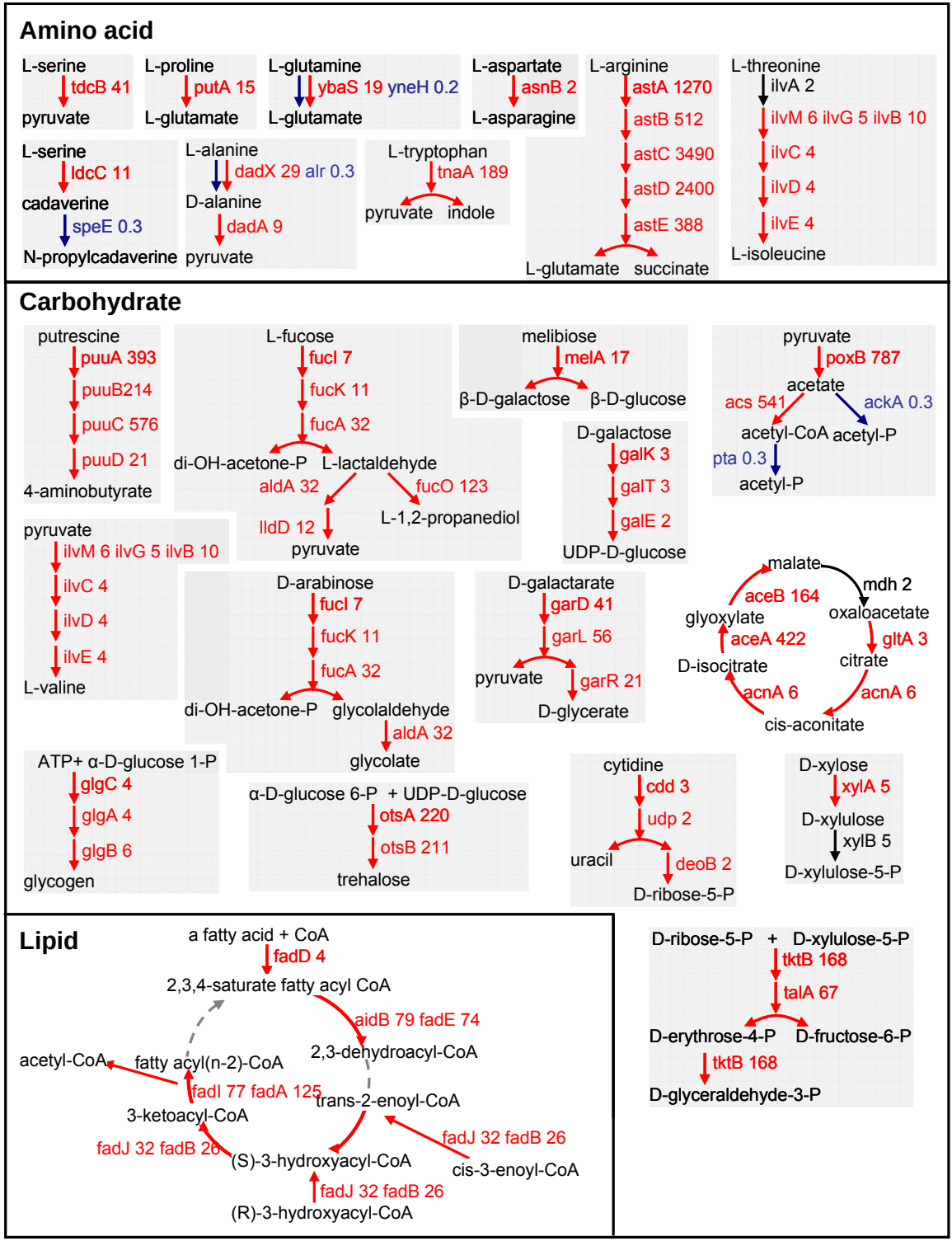
Amino acid
L-serine
tdcB 41
pyruvate
L-proline
putA 15
L-glutamate
L-glutamine
ybaS 19 yneH 0.2
L-glutamate
L-aspartate
asnB 2
L-asparagine
L-arginine
astA 1270
astB 512
astC 3490
astD 2400
astE 388
L-glutamate succinate
L-threonine
ilvA 2
ilvM 6 ilvG 5 ilvB 10
ilvC 4
ilvD 4
ilvE 4
L-isoleucine
L-serine
ldcC 11
cadaverine
speE 0.3
N-propylcadaverine
L-alanine
dadX 29 alr 0.3
D-alanine
dadA 9
pyruvate
L-tryptophan
tnaA 189
pyruvate indole
Carbohydrate
putrescine
puuA 393
puuB214
puuC 576
puuD 21
4-aminobutyrate
L-fucose
fucI 7
fucK 11
fucA 32
di-OH-acetone-P L-lactaldehyde
aldA 32
fucO 123
L-1,2-propanediol
lldD 12
pyruvate
melibiose
melA 17
β-D-galactose β-D-glucose
D-galactose
galK 3
galT 3
galE 2
UDP-D-glucose
pyruvate
poxB 787
acetate
acs 541
ackA 0.3
acetyl-CoA acetyl-P
pta 0.3
acetyl-P
pyruvate
ilvM 6 ilvG 5 ilvB 10
ilvC 4
ilvD 4
ilvE 4
L-valine
D-arabinose
fucI 7
fucK 11
fucA 32
di-OH-acetone-P glycolaldehyde
aldA 32
glycolate
D-galactarate
garD 41
garL 56
pyruvate
garR 21
D-glycerate
malate
mdh 2
aceB 164
glyoxylate
oxaloacetate
aceA 422
gltA 3
D-isocitrate
citrate
acnA 6
acnA 6
cis-aconitate
ATP+ α-D-glucose 1-P
glgC 4
glgA 4
glgB 6
glycogen
α-D-glucose 6-P + UDP-D-glucose
otsA 220
otsB 211
trehalose
cytidine
cdd 3
udp 2
uracil
deoB 2
D-ribose-5-P
D-xylose
xylA 5
D-xylulose
xylB 5
D-xylulose-5-P
Lipid
a fatty acid + CoA
fadD 4
2,3,4-saturate fatty acyl CoA
aidB 79 fadE 74
2,3-dehydroacyl-CoA
acetyl-CoA
fatty acyl(n-2)-CoA
fadI 77 fadA 125
trans-2-enoyl-CoA
3-ketoacyl-CoA
fadJ 32 fadB 26
fadJ 32 fadB 26
(S)-3-hydroxyacyl-CoA
cis-3-enoyl-CoA
fadJ 32 fadB 26
(R)-3-hydroxyacyl-CoA
D-ribose-5-P + D-xylulose-5-P
tktB 168
talA 67
D-erythrose-4-P D-fructose-6-P
tktB 168
D-glyceraldehyde-3-P