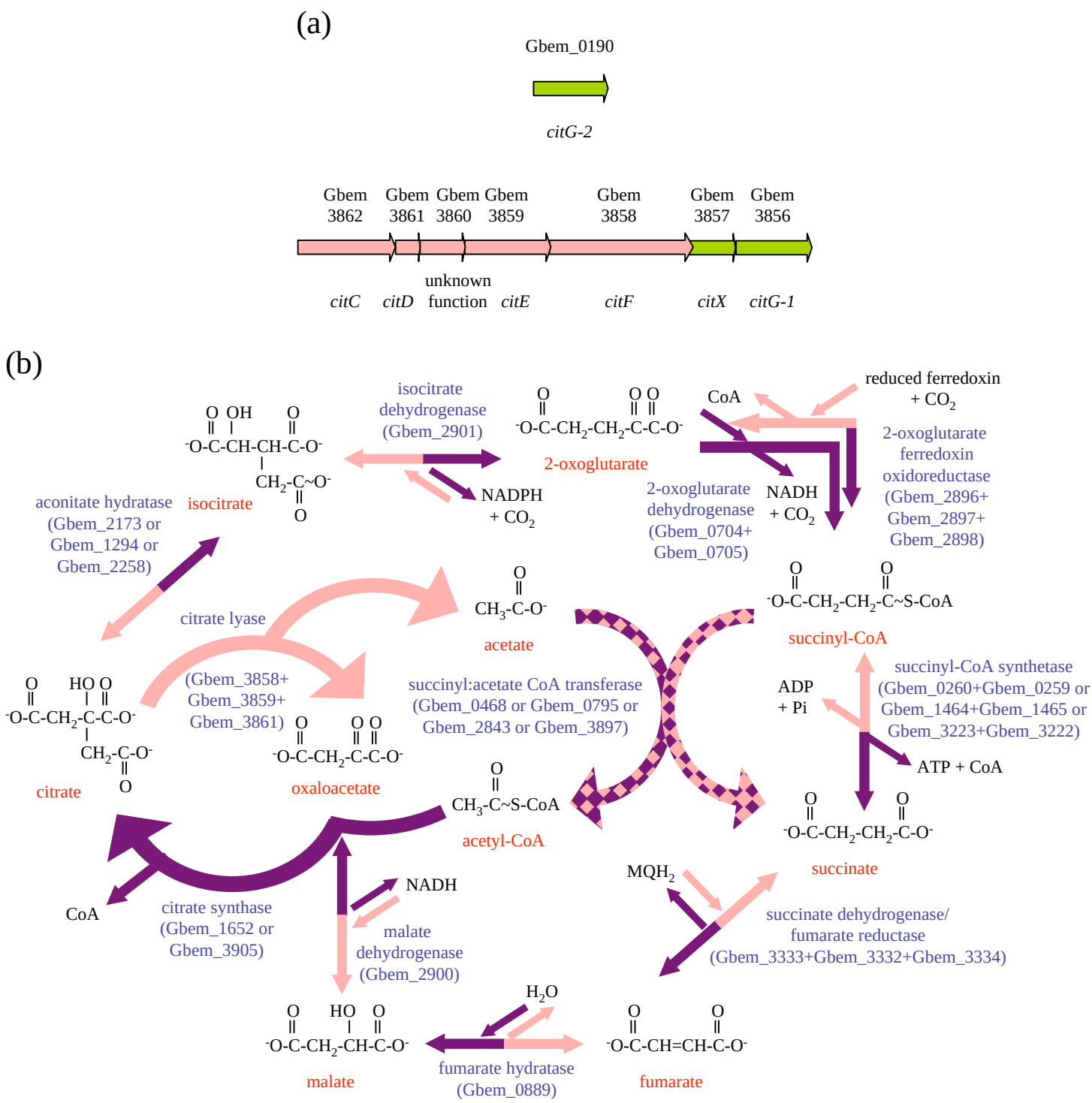
(a)
Gbem_0190
citG-2
Gbem 3862
Gbem 3861
Gbem 3860
Gbem 3859
Gbem 3858
Gbem 3857
Gbem 3856
citC
citD
unknown function
citE
citF
citX
citG-1
(b)
isocitrate dehydrogenase (Gbem_2901)
NADPH + CO2
isocitrate
aconitate hydratase (Gbem_2173 or Gbem_1294 or Gbem_2258)
2-oxoglutarate
CoA
reduced ferredoxin + CO2
2-oxoglutarate ferredoxin oxidoreductase (Gbem_2896+ Gbem_2897+ Gbem_2898)
2-oxoglutarate dehydrogenase (Gbem_0704+ Gbem_0705)
NADH + CO2
citrate lyase
(Gbem_3858+ Gbem_3859+ Gbem_3861)
acetate
succinyl-CoA
succinyl:acetate CoA transferase (Gbem_0468 or Gbem_0795 or Gbem_2843 or Gbem_3897)
ADP + Pi
succinyl-CoA synthetase (Gbem_0260+Gbem_0259 or Gbem_1464+Gbem_1465 or Gbem_3223+Gbem_3222)
ATP + CoA
citrate
oxaloacetate
acetyl-CoA
succinate
CoA
citrate synthase (Gbem_1652 or Gbem_3905)
NADH
malate dehydrogenase (Gbem_2900)
MQH2
succinate dehydrogenase/ fumarate reductase (Gbem_3333+Gbem_3332+Gbem_3334)
H2O
malate
fumarate hydratase (Gbem_0889)
fumarate