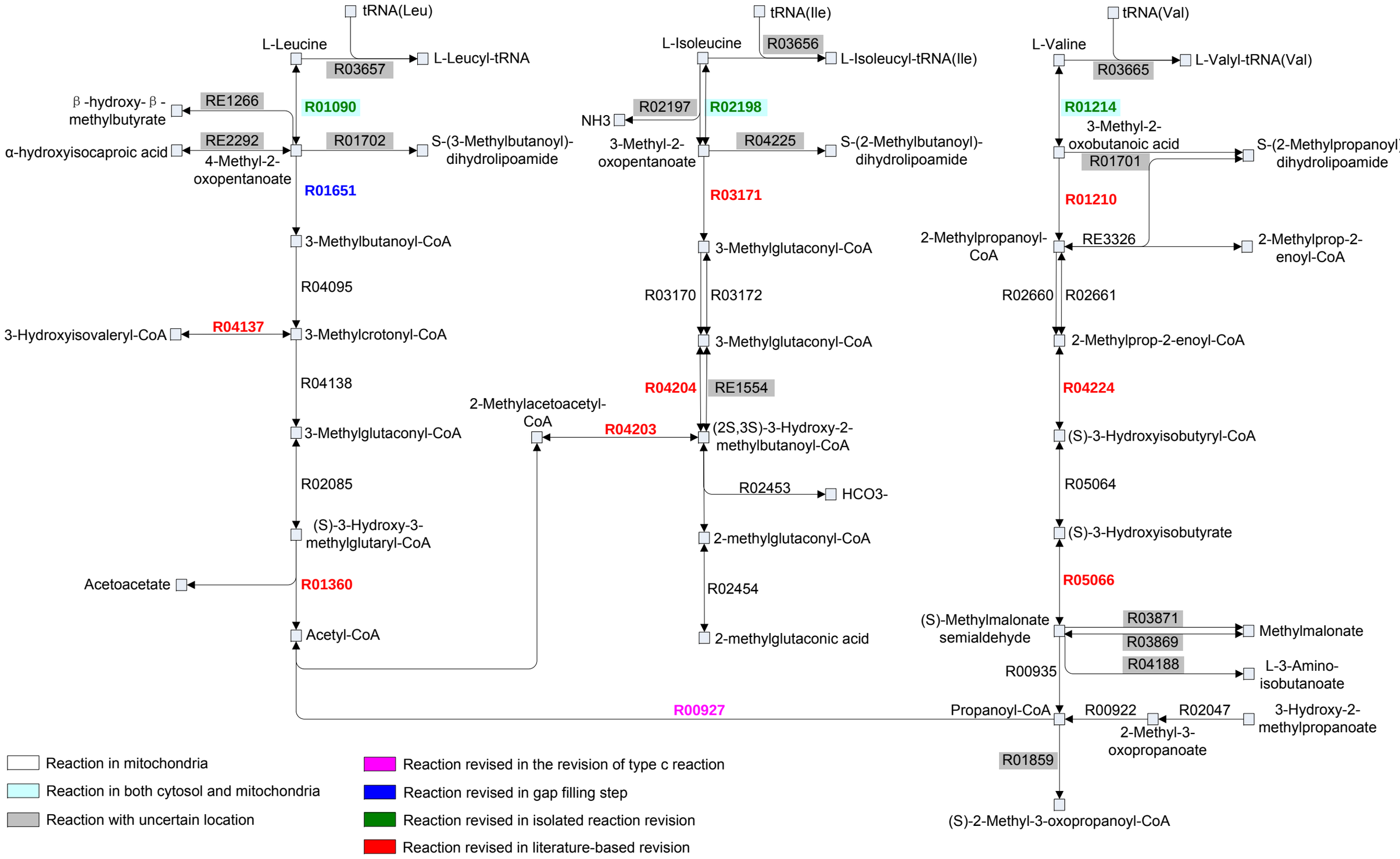
tRNA(Leu)
L-Leucine
R03657
L-Leucyl-tRNA
β -hydroxy- β - methylbutyrate
RE1266
R01090
α-hydroxyisocaproic acid
RE2292
4-Methyl-2-oxopentanoate
R01702
S-(3-Methylbutanoyl)-dihydrolipoamide
R01651
3-Methylbutanoyl-CoA
R04095
3-Hydroxyisovaleryl-CoA
R04137
3-Methylcrotonyl-CoA
R04138
3-Methylglutaconyl-CoA
R02085
(S)-3-Hydroxy-3-methylglutaryl-CoA
Acetoacetate
R01360
Acetyl-CoA
tRNA(Ile)
L-Isoleucine
R03656
L-Isoleucyl-tRNA(Ile)
R02197
R02198
NH3
3-Methyl-2-oxopentanoate
R04225
S-(2-Methylbutanoyl)-dihydrolipoamide
R03171
3-Methylglutaconyl-CoA
R03170
R03172
3-Methylglutaconyl-CoA
R04204
RE1554
2-Methylacetoacetyl-CoA
R04203
(2S,3S)-3-Hydroxy-2-methylbutanoyl-CoA
R02453
HCO3-
2-methylglutaconyl-CoA
R02454
2-methylglutaconic acid
tRNA(Val)
L-Valine
R03665
L-Valyl-tRNA(Val)
R01214
3-Methyl-2-oxobutanoic acid
R01701
S-(2-Methylpropanoyl)-dihydrolipoamide
R01210
2-Methylpropanoyl-CoA
RE3326
2-Methylprop-2-enoyl-CoA
R02660
R02661
2-Methylprop-2-enoyl-CoA
R04224
(S)-3-Hydroxyisobutyryl-CoA
R05064
(S)-3-Hydroxyisobutyrate
R05066
(S)-Methylmalonate semialdehyde
R03871
R03869
Methylmalonate
R04188
L-3-Amino-isobutanoate
R00935
R00927
Propanoyl-CoA
R00922
R02047
2-Methyl-3-oxopropanoate
3-Hydroxy-2-methylpropanoate
R01859
(S)-2-Methyl-3-oxopropanoyl-CoA
Reaction in mitochondria
Reaction in both cytosol and mitochondria
Reaction with uncertain location
Reaction revised in the revision of type c reaction
Reaction revised in gap filling step
Reaction revised in isolated reaction revision
Reaction revised in literature-based revision