

CITRATE CYCLE (TCA CYCLE)

gene upregulated in 2La

gene upregulated in 2La and downregulated in 2La⁺

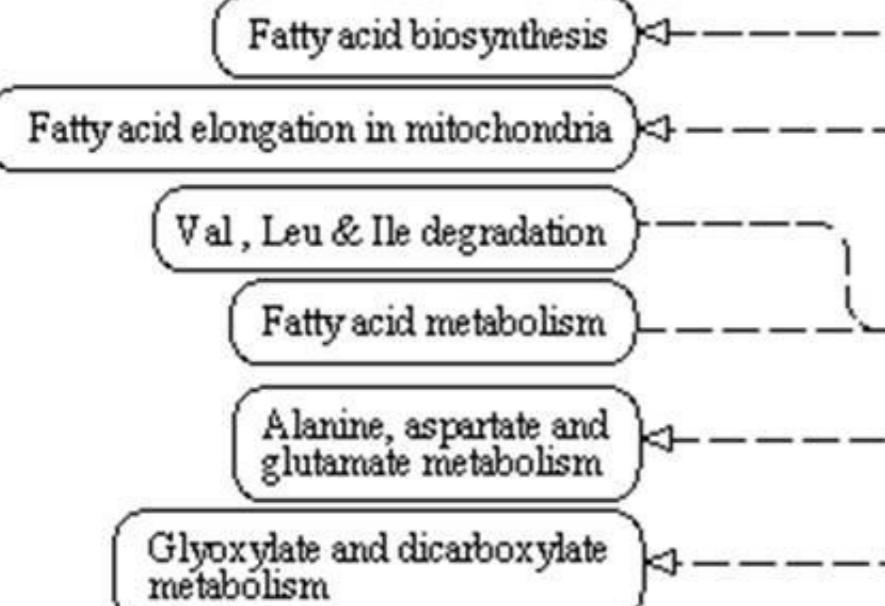
3350 (Pepck)

4.1.1.32

4.1.1.49

Phosphoenol-pyruvate

Glycolysis / Gluconeogenesis



7975 (dihydrolipoyl lysine-residue acetyltransferase)

11629 (dihydrolipoyl dehydrogenase)

2192
7786 (isocitrate dehydrogenase)

Acetyl-CoA

1.2.7.1

ThPP

2-Hydroxyethyl-ThPP

Pyruvate

1.2.4.1

6.4.1.1

Lipoamide-E

1.8.1.4

Dihydro-lipoamide-E

S-Acetyl-dihydro-lipoamide-E

2.3.1.12

Acetyl-CoA

1.1.1.37

Oxaloacetate

2.3.3.1

Citrate

4.2.1.3

cis-Aconitate

4.2.1.3

Isocitrate

1.1.1.42

Oxalosuccinate

1.1.1.41

1.1.1.42

ThPP

2-Oxo-glutarate

1.2.4.2

1.2.4.2

3-Carboxy-1-hydroxypropyl-ThPP

1.2.4.2

S-Succinyl-dihydro-lipoamide-E

2.3.1.61

Dihydro-lipoamide-E

1.8.1.4

Lipoamide-E

1.2.7.3

1.2.7.3

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