

S3 Table. Reaction list 2. It contains the list of reduced 28 reactions for mammalian CCM pathway under consideration. Here the reaction numbers correspond to the same serial numbers in S5 Table.

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1. Glucose + ATP \Rightarrow α -D glucose 6P + ADP
 2. α -D glucose 6P \Rightarrow β -D fructose 6P
 3. β -D fructose 6P + ATP \Rightarrow β -D fructose 1,6P₂ + ADP
 4. β -D fructose 1,6P₂ \Rightarrow D-Glyceraldehyde 3P + NADH
 5. D-Glyceraldehyde 3P \Rightarrow Glycerate 2P
 6. Glycerate 2P \Rightarrow Phosphoenolpyruvate (PEP)
 7. Phosphoenolpyruvate (PEP) + ADP \Rightarrow Pyruvate + ATP
 8. Pyruvate \Rightarrow Acetyl-CoA
 9. Pyruvate \Rightarrow Oxaloacetate
 10. Oxaloacetate \Rightarrow PEP
 11. Oxaloacetate + Acetyl-CoA \Rightarrow Citrate
 12. Citrate \Rightarrow Succinyl-CoA + NADH
 13. Succinyl-CoA \Rightarrow Oxaloacetate + NADH + GTP (ATP)
 14. Oxaloacetate \Rightarrow Succinyl-CoA
 15. D-Glyceraldehyde 3P \Rightarrow β -D fructose 1,6P₂
 16. PEP \Rightarrow Glycerate 2P
 17. Glycerate 2P \Rightarrow D-Glyceraldehyde 3P
 18. β -D fructose 1,6P₂ \Rightarrow β -D fructose 6P
 19. β -D fructose 6P \Rightarrow α -D glucose 6P
 20. α -D glucose 6P \Rightarrow Glucose
 21. Pyruvate + NADH \Rightarrow Lactate
 22. Pyruvate \Rightarrow Alanine
 23. β -D fructose 6P \Rightarrow β -D fructose 2,6P₂
 24. β -D fructose 2,6P₂ \Rightarrow β -D fructose 6P
 25. α -D glucose 6P \Rightarrow 6-phosphogluconate + NADPH
 26. 6-phosphogluconate \Rightarrow D-ribose-5P + NADPH
 27. D-ribose-5P \Rightarrow β -D fructose 6P
 28. D-ribose-5P \Rightarrow D-Glyceraldehyde 3P
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