

## Additional Figure S5

    
"Ca. M. alvus" - "Ca. M. intestinalis" - *M. luminyensis*

## Pyrimidine Metabolism

UMP-UDP-UTP  
CDP-CTP  
dCDP-dCTP  
dUMP-dUDP-dUTP  
dTMP-dTDP-dTTP

## Purine Metabolism

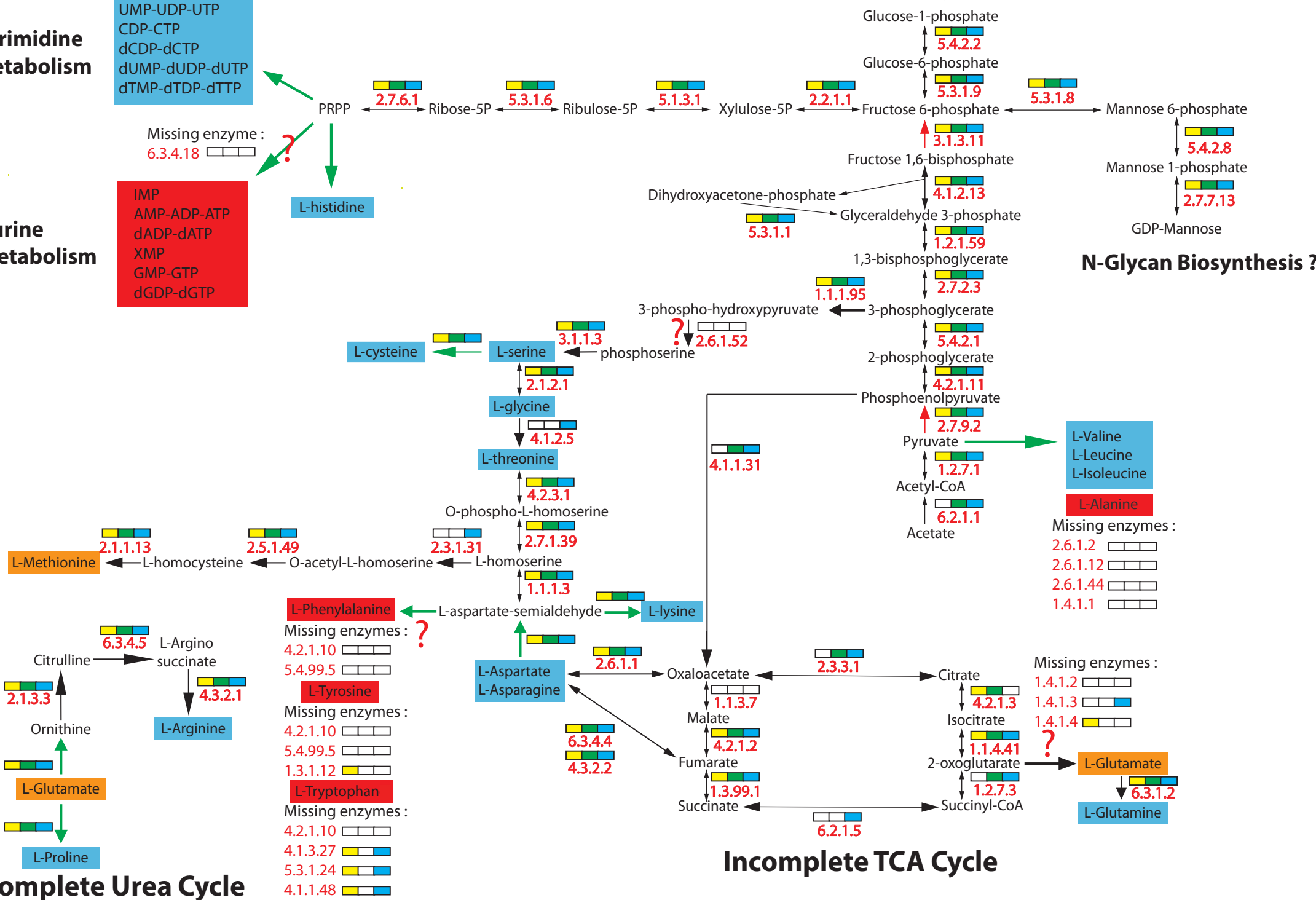
- IMP
- AMP-ADP-ATP
- dADP-dATP
- XMP
- GMP-GTP
- dGDP-dGTP

Missing enzyme :  
6.3.4.18 

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L-histidine

## Gluconeogenesis



## N-Glycan Biosynthesis ?

- L-Valine
- L-Leucine
- L-Isoleucine
- L-Alanine

Missing enzymes :


2.6.1.2


2.6.1.12


2.6.1.44


1.4.1.1

Missing enzymes :

1.4.1.2 

1.4.1.3 

1.4.1.4 



## Incomplete TCA Cycle