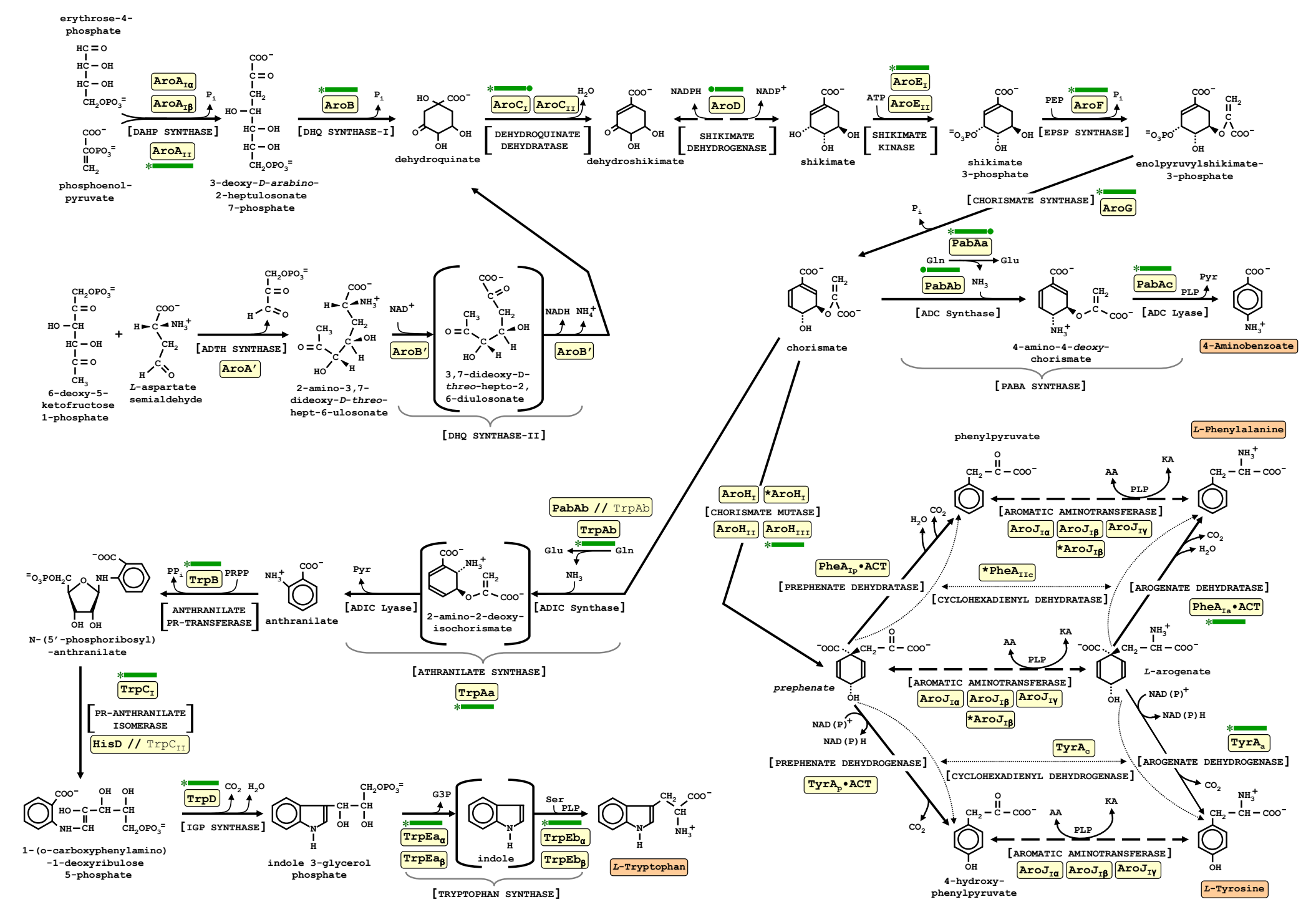
erythrose-4-phosphate
phosphoenol-pyruvate
AroA$_{I\alpha}$
AroA$_{I\beta}$
AroA$_{II}$
[DAHP SYNTHASE]
3-deoxy-D-arabino-2-heptulosonate 7-phosphate
AroB
[DHQ SYNTHASE-I]
dehydroquinate
AroC$_I$
AroC$_{II}$
[DEHYDROQUINATE DEHYDRATASE]
dehydroshikimate
NADPH
AroD
NADP$^+$
[SHIKIMATE DEHYDROGENASE]
shikimate
ATP
AroE$_I$
AroE$_{II}$
[SHIKIMATE KINASE]
shikimate 3-phosphate
PEP
AroF
[EPSP SYNTHASE]
enolpyruvylshikimate-3-phosphate
[CHORISMATE SYNTHASE]
AroG
chorismate
PabAa
Gln
Glu
PabAb
[ADC Synthase]
4-amino-4-deoxy-chorismate
PabAc
PLP
Pyr
[ADC Lyase]
4-Aminobenzoate
[PABA SYNTHASE]
6-deoxy-5-ketofructose 1-phosphate
L-aspartate semialdehyde
[ADTH SYNTHASE]
AroA′
2-amino-3,7-dideoxy-D-threo-hept-6-ulosonate
NAD$^+$
AroB′
3,7-dideoxy-D-threo-hepto-2,6-diulosonate
NADH
NH$_4^+$
[DHQ SYNTHASE-II]
AroH$_I$
*AroH$_I$
[CHORISMATE MUTASE]
AroH$_{II}$
AroH$_{III}$
PabAb // TrpAb
TrpAb
Glu
Gln
NH$_3$
[ADIC Synthase]
2-amino-2-deoxy-isochorismate
Pyr
[ADIC Lyase]
anthranilate
PRPP
TrpB
[ANTHRANILATE PR-TRANSFERASE]
N-(5′-phosphoribosyl)-anthranilate
[ATHRANILATE SYNTHASE]
TrpAa
TrpC$_I$
[PR-ANTHRANILATE ISOMERASE]
HisD // TrpC$_{II}$
1-(o-carboxyphenylamino)-1-deoxyribulose 5-phosphate
TrpD
CO$_2$
H$_2$O
[IGP SYNTHASE]
indole 3-glycerol phosphate
G3P
TrpEa$_\alpha$
TrpEa$_\beta$
indole
Ser
PLP
TrpEb$_\alpha$
TrpEb$_\beta$
L-Tryptophan
[TRYPTOPHAN SYNTHASE]
phenylpyruvate
L-Phenylalanine
AA
KA
PLP
[AROMATIC AMINOTRANSFERASE]
AroJ$_{I\alpha}$
AroJ$_{I\beta}$
AroJ$_{I\gamma}$
*AroJ$_{I\beta}$
PheA$_{Ip}$•ACT
[PREPHENATE DEHYDRATASE]
*PheA$_{IIc}$
[CYCLOHEXADIENYL DEHYDRATASE]
[AROGENATE DEHYDRATASE]
PheA$_{Ia}$•ACT
prephenate
L-arogenate
NAD (P)$^+$
NAD (P) H
[PREPHENATE DEHYDROGENASE]
TyrA$_p$•ACT
TyrA$_c$
[CYCLOHEXADIENYL DEHYDROGENASE]
[AROGENATE DEHYDROGENASE]
TyrA$_a$
4-hydroxy-phenylpyruvate
L-Tyrosine