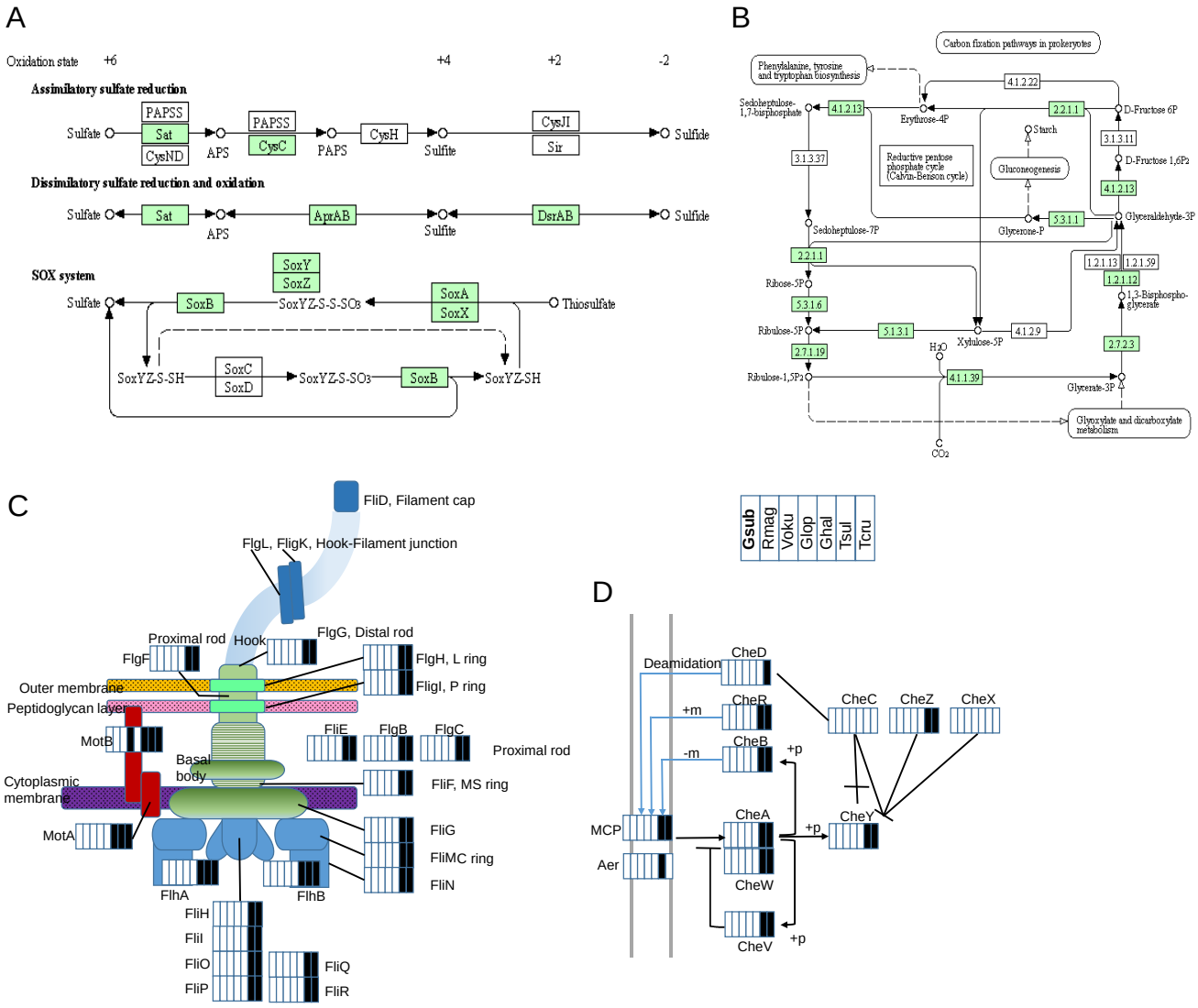
Figure S5


A
Oxidation state +6 +4 +2 -2
Assimilatory sulfate reduction
Sulfate PAPSS Sat CysND APS PAPSS CysC PAPS CysH Sulfite CysJI Sir Sulfide
Dissimilatory sulfate reduction and oxidation
Sulfate Sat APS AprAB Sulfite DsrAB Sulfide
SOX system
Sulfate SoxB SoxYZ-S-SO3 SoxY SoxZ SoxA SoxX Thiosulfate
SoxYZ-S-SH SoxC SoxD SoxYZ-S-SO3 SoxB SoxYZ-SH
B
Carbon fixation pathways in prokeryotes
Phenylalanine, tyrosine and tryptophan biosynthesis
Sedoheptulose-1,7-bisphosphate
Erythrose-4P
D-Fructose 6P
Starch
D-Fructose 1,6P2
Reductive pentose phosphate cycle (Calvin-Benson cycle)
Gluconeogenesis
Glyceraldehyde-3P
Sedoheptulose-7P
Glycerone-P
Ribose-5P
Ribulose-5P
Xylulose-5P
Ribulose-1,5P2
Glycerate-3P
1,3-Bisphospho-glycerate
Glyoxylate and dicarboxylate metabolism
CO2
C
FliD, Filament cap
FlgL, FligK, Hook-Filament junction
Proximal rod
Hook
FlgG, Distal rod
FlgF
FlgH, L ring
FliI, P ring
Outer membrane
Peptidoglycan layer
MotB
FliE
FlgB
FlgC
Proximal rod
Basal body
Cytoplasmic membrane
FliF, MS ring
FliG
FliMC ring
FliN
MotA
FlhA
FlhB
FliH
FliI
FliO
FliP
FliQ
FliR
Gsub
Rmag
Voku
Glop
Ghal
Tsul
Tcru
D
Deamidation
CheD
CheR
+m
CheB
-m
+p
CheC
CheZ
CheX
CheY
MCP
Aer
CheA
CheW
CheV
+p
+p