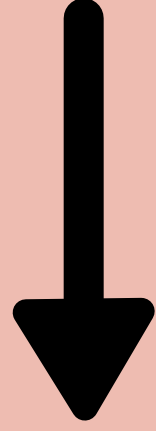


time

Ancestral Chloroflexi

Cytochrome 1  
COG 4654

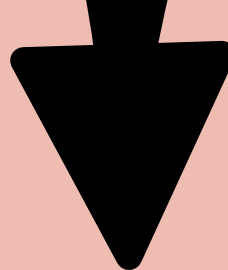


C1

C2

*nirS*

Domain fusion



C1

C2

*nirS*

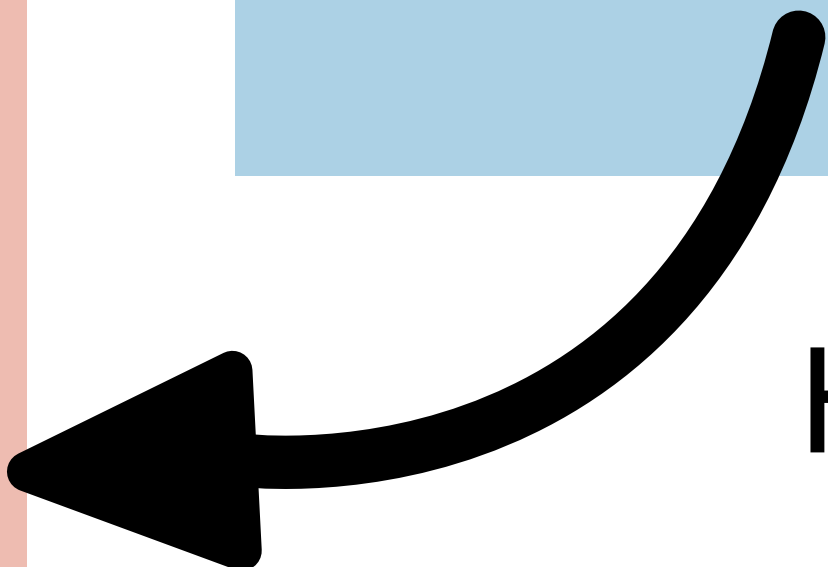
Extant Chloroflexi

Proteobacteria

Cytochrome 2  
COG 2010

*nirS*  
nitrite reductase

Horizontal gene transfer



*Chimeric nitrite reductase is unique to members of Phylum Chloroflexi*