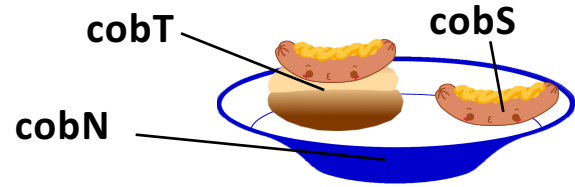
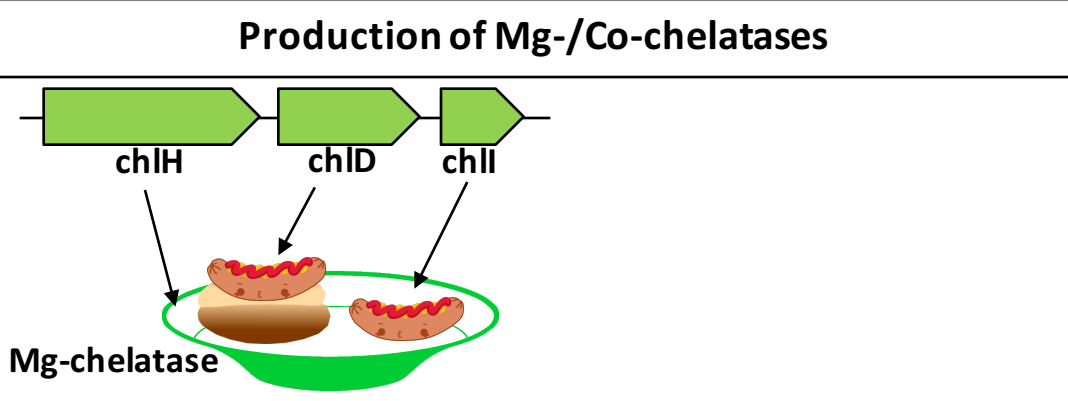


Mg-chelatase chIHDH



Co-chelatase cobNST

A



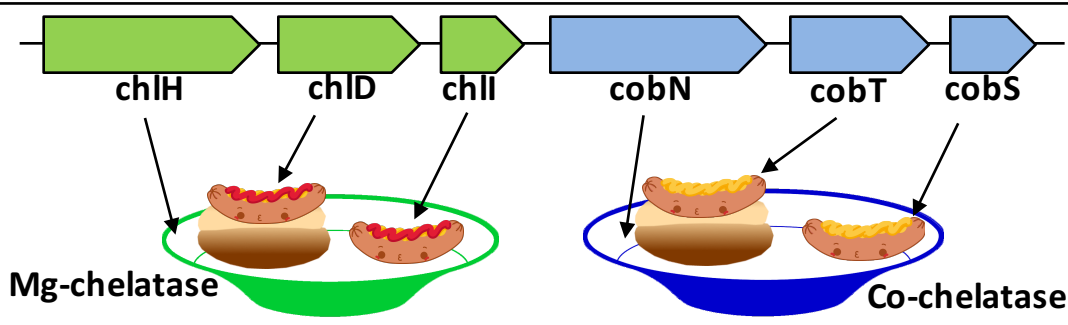
Genotype(s) [*main taxa*] (reference)

1xchIH, 1xchID, 1xchII

Proteobacteria

Mg-chelatase: (Gibson et al. 1995)

B



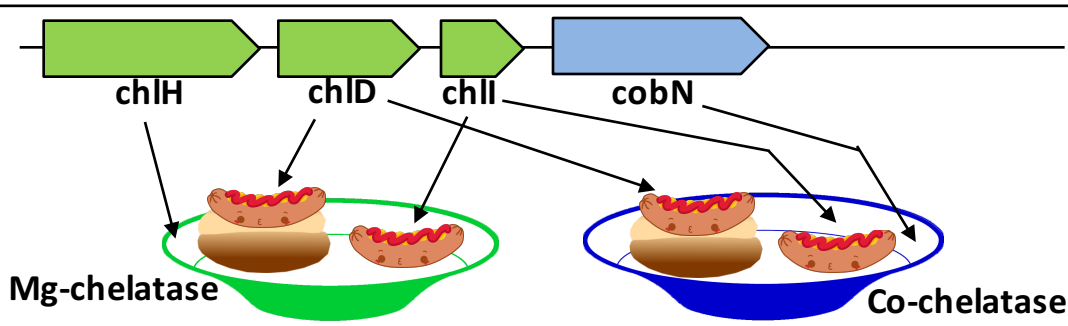
1xcobN, 1xcobT, 1xcobS, 1xchIH, 1xchID, 1xchII

Proteobacteria

Mg-chelatase: (Gibson et al. 1995)

Co-chelatase: (Debussche et al. 1992)

C



1xcobN, 1xchIH, 1xchID, 1xchII

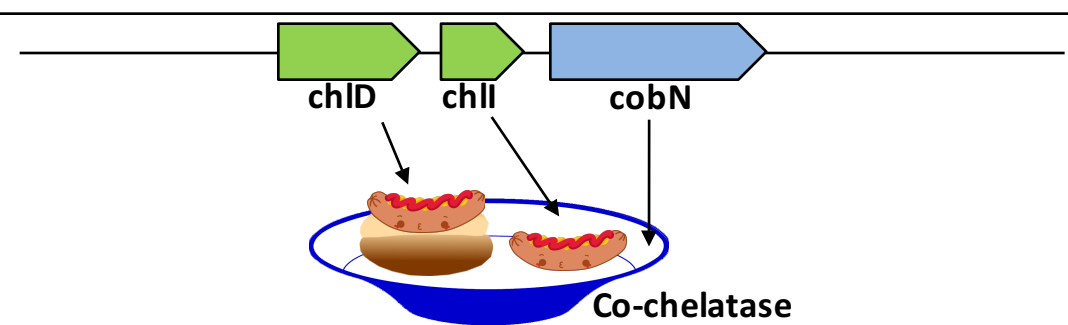
1xcobN, 2xchIH, 1xchID, 1xchII

Cyanobacteria

Mg-chelatase: (Gibson et al. 1995)

Co-chelatase: (Rodionov et al. 2003)

D

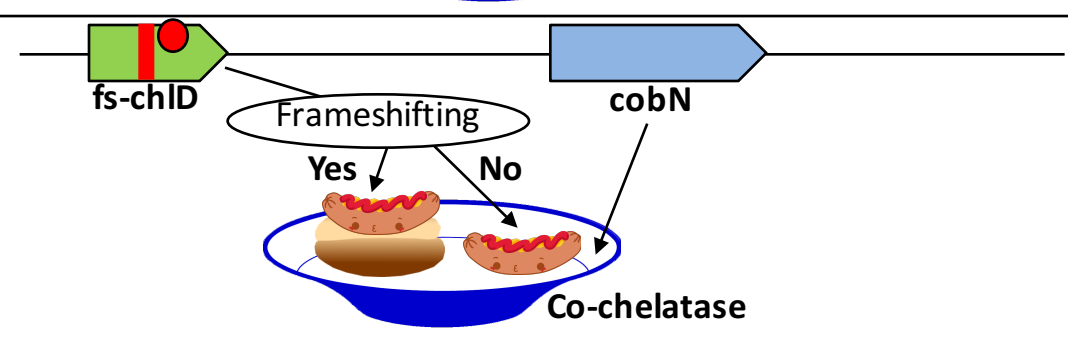


1xcobN, 1xchID, 1xchII

Actinobacteria

Co-chelatase: (Rodionov et al. 2003)

E

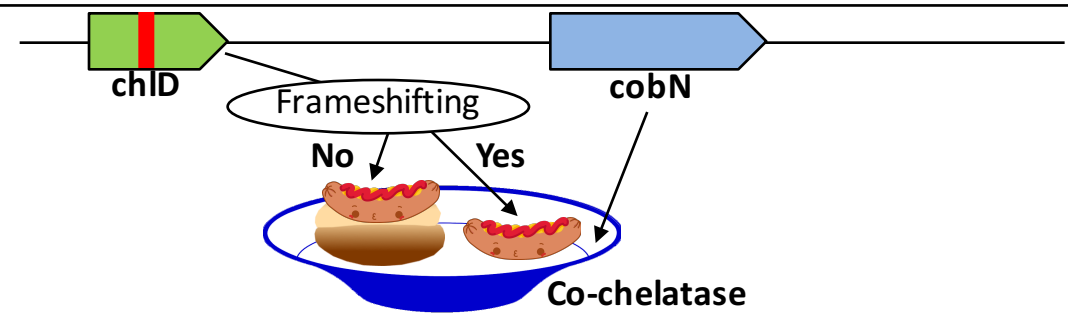


1xcobN, 1xfs-chID

Proteobacteria, Actinobacteria, Archaea

Co-chelatase: (this study)

F



1xcobN, 1xchID

Proteobacteria, Actinobacteria, Archaea

Co-chelatase: (this study)

 - *chID* gene with a frameshifting signal

 - *fs-chID* gene with a frameshifting signal and a frameshift mutation