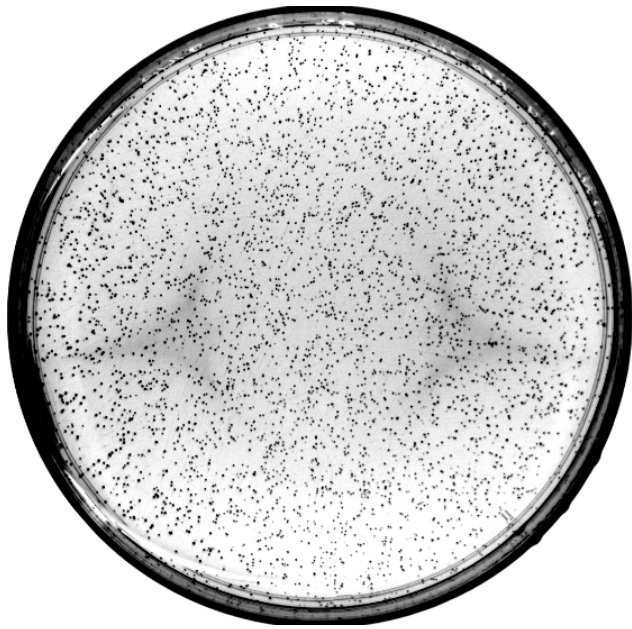
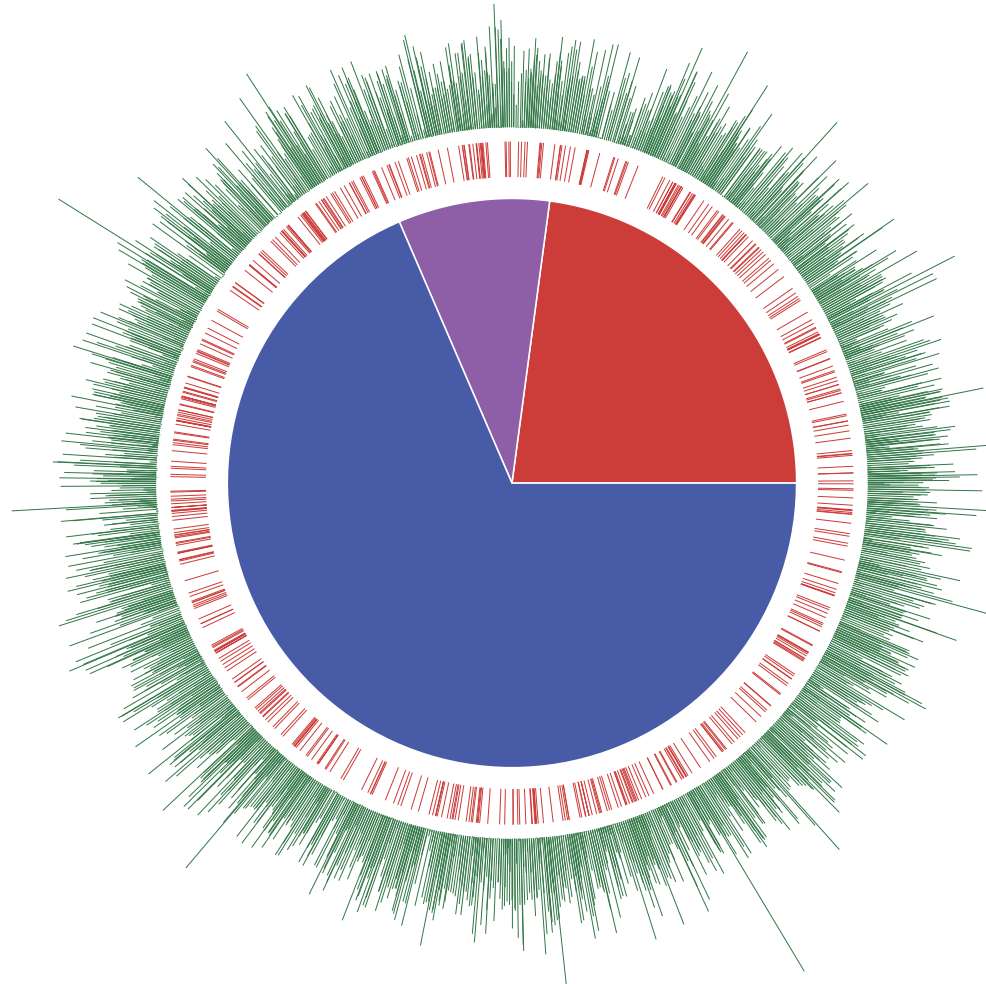


Figure 1  
Desmarais et al.

**A**



**B**



**C**

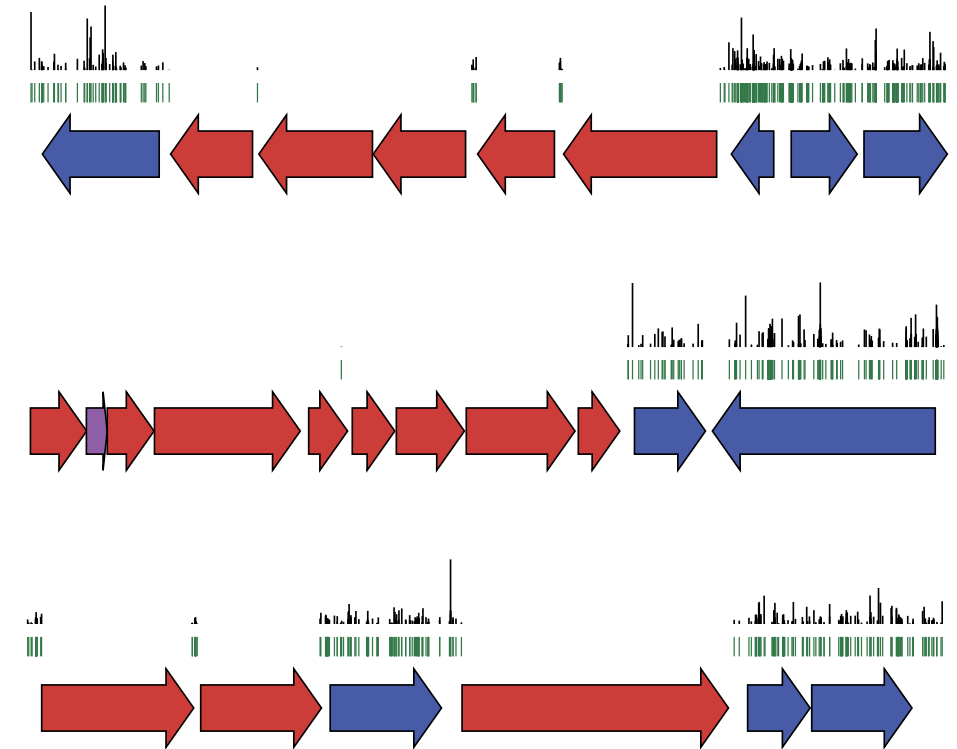
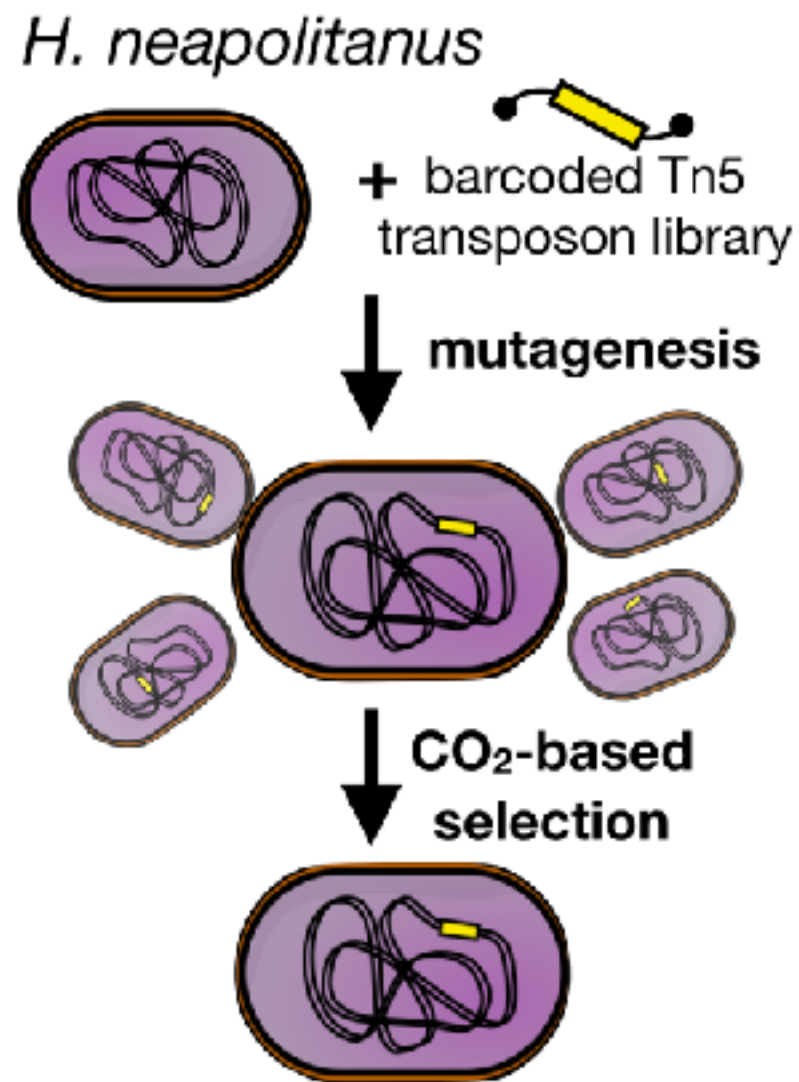
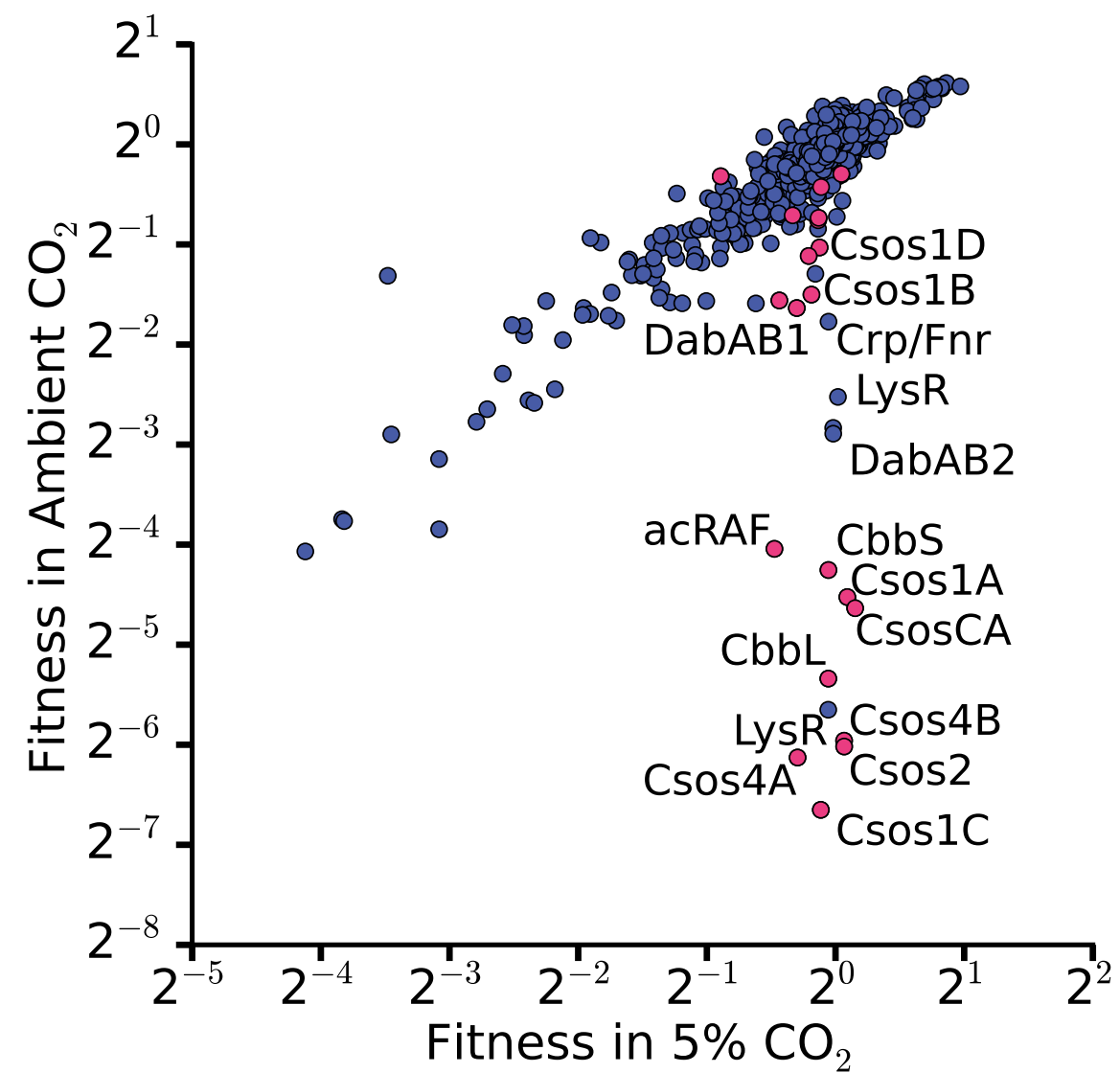


Figure 2  
Desmarais et al.

A



B



C

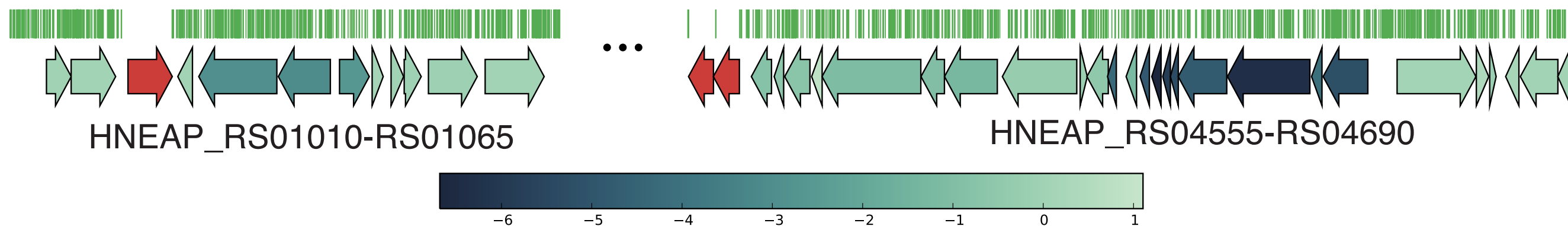
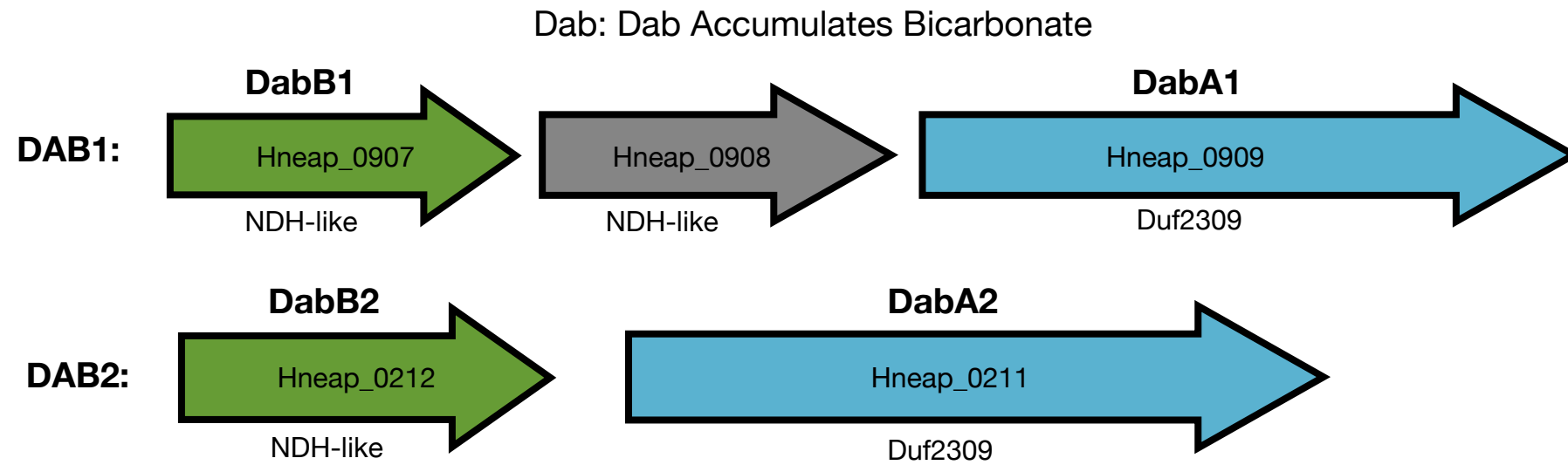
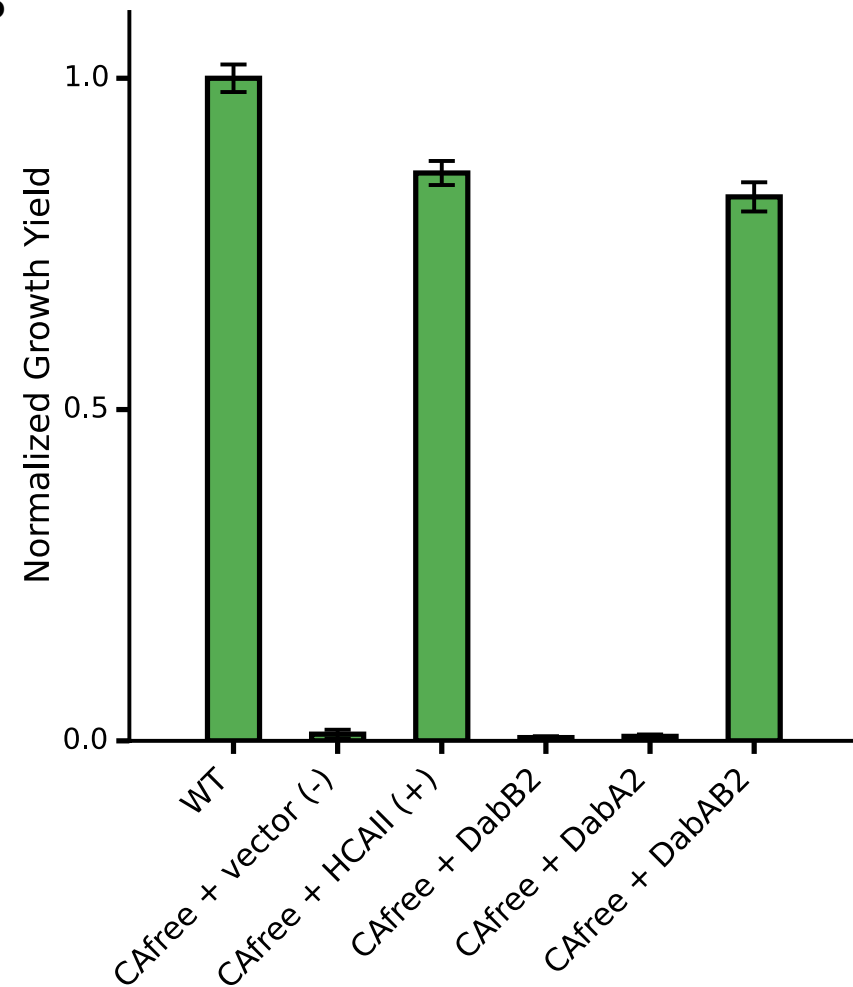


Figure 3  
Desmarais et al.

**A**



**B**



**C**

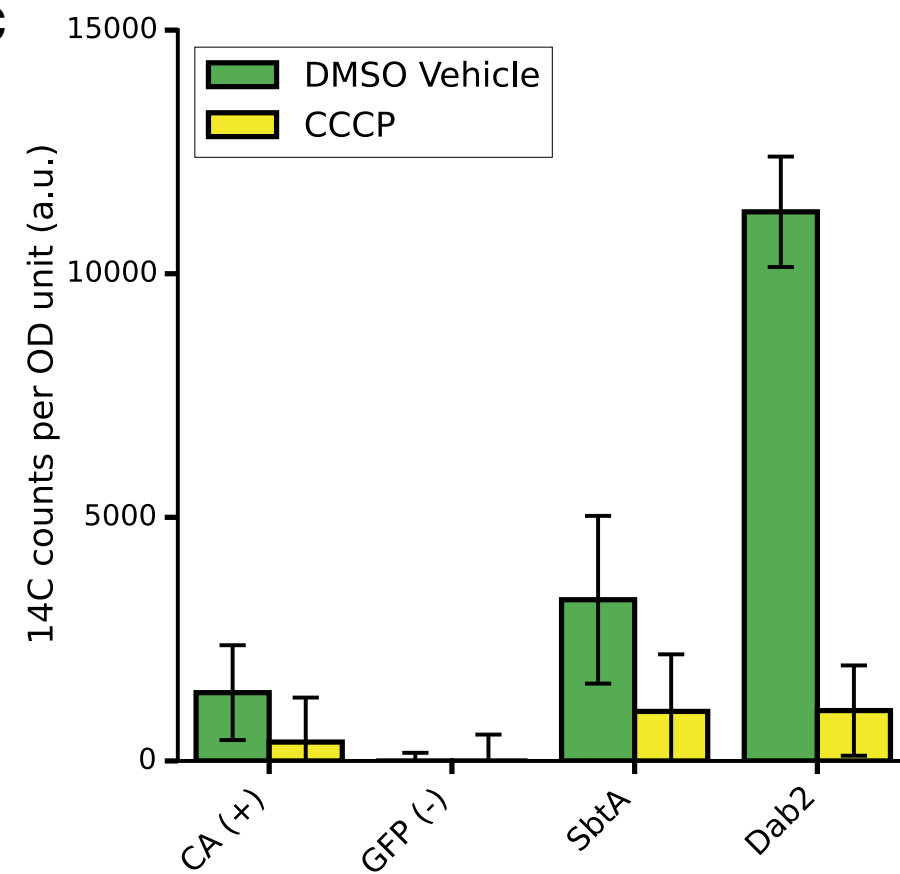


Figure 4  
Desmarais et al.

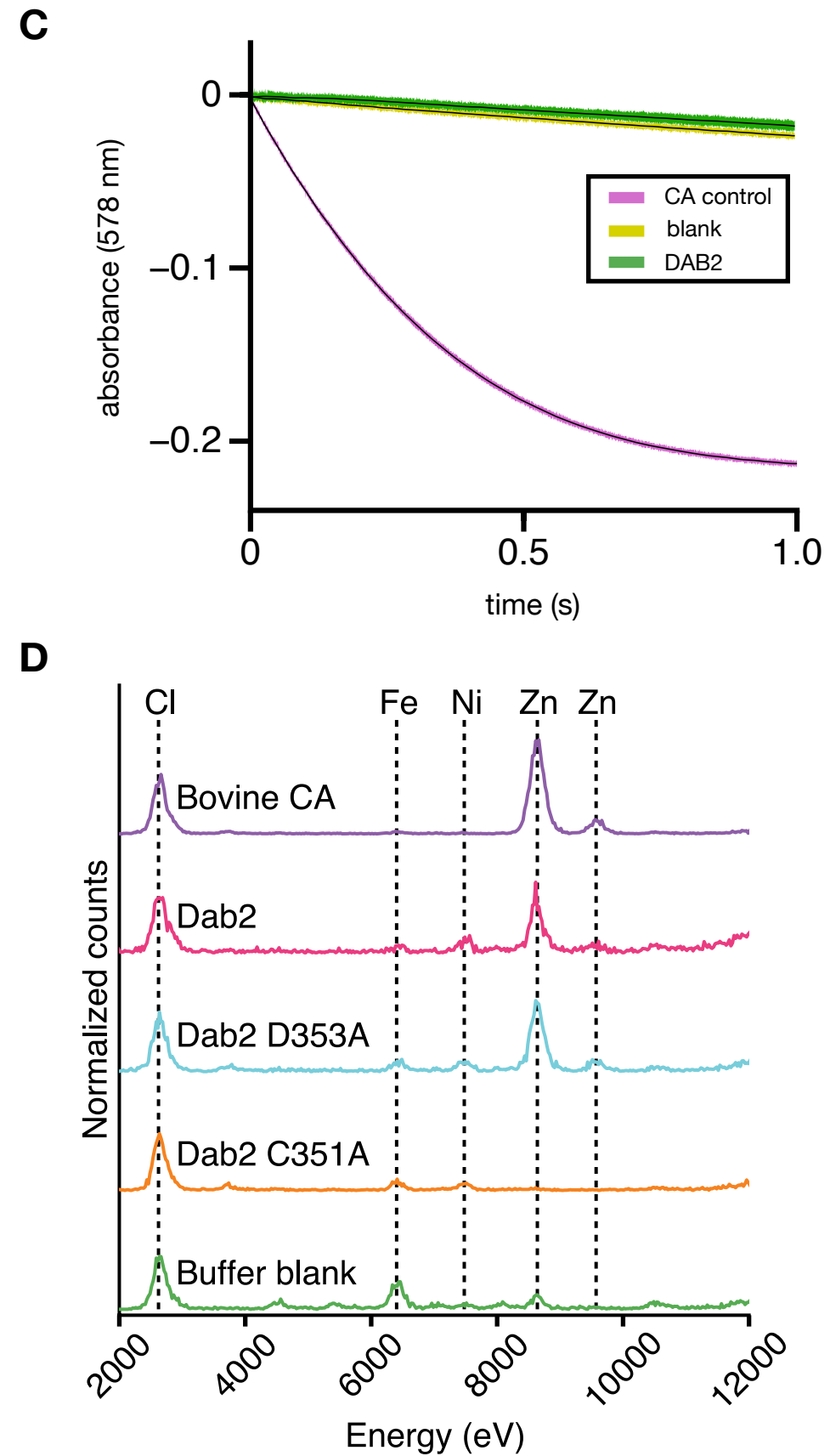
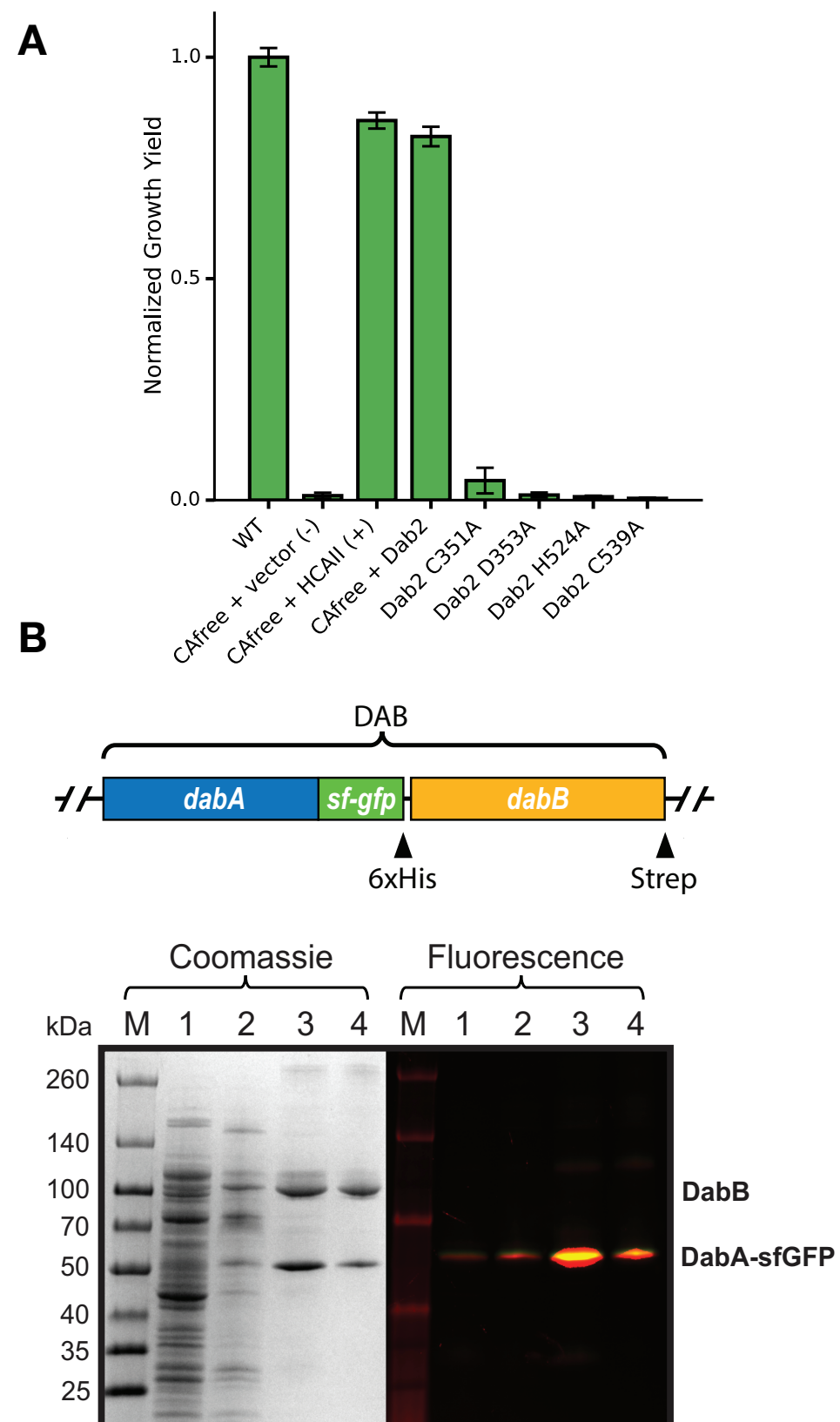
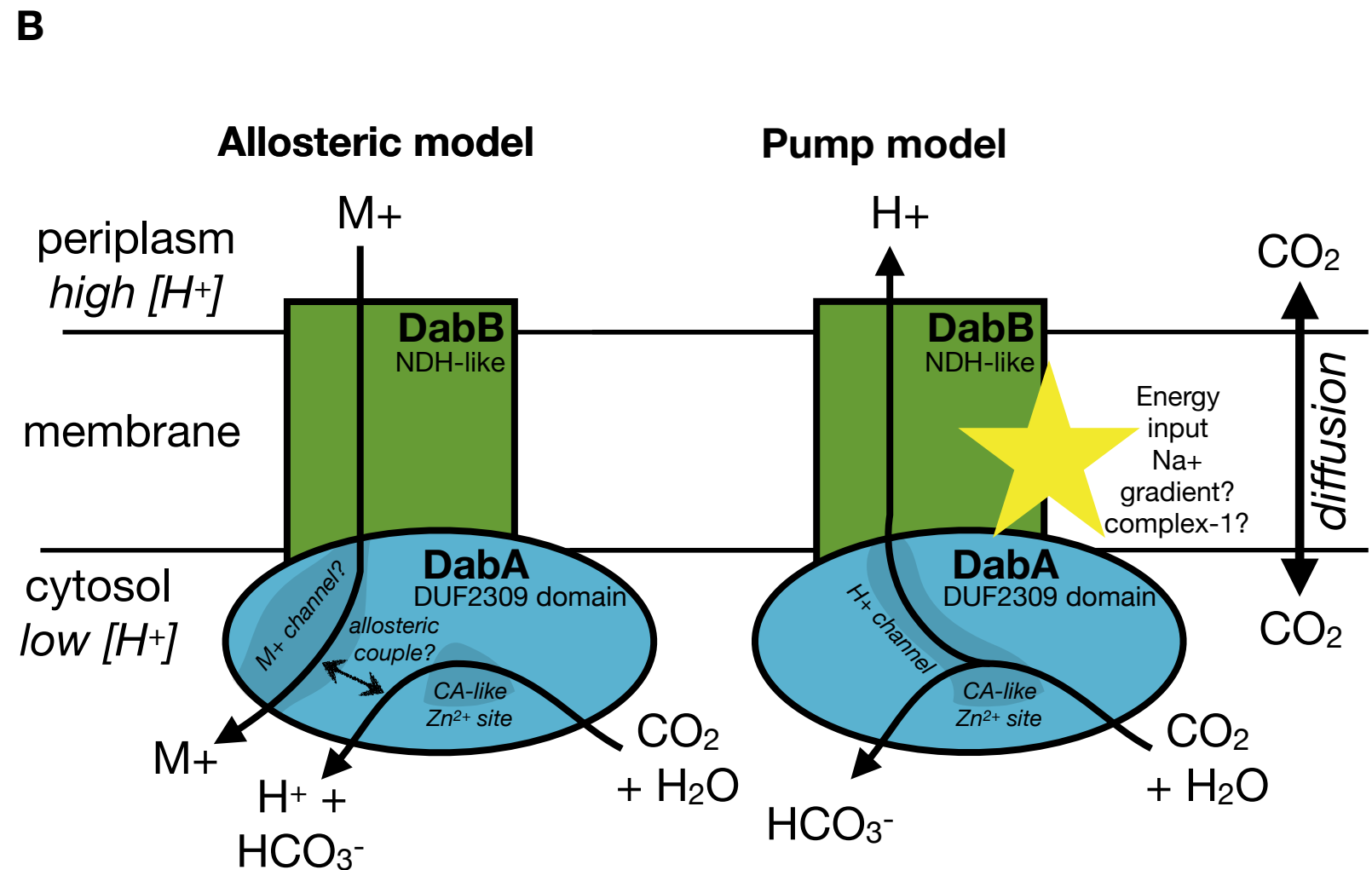
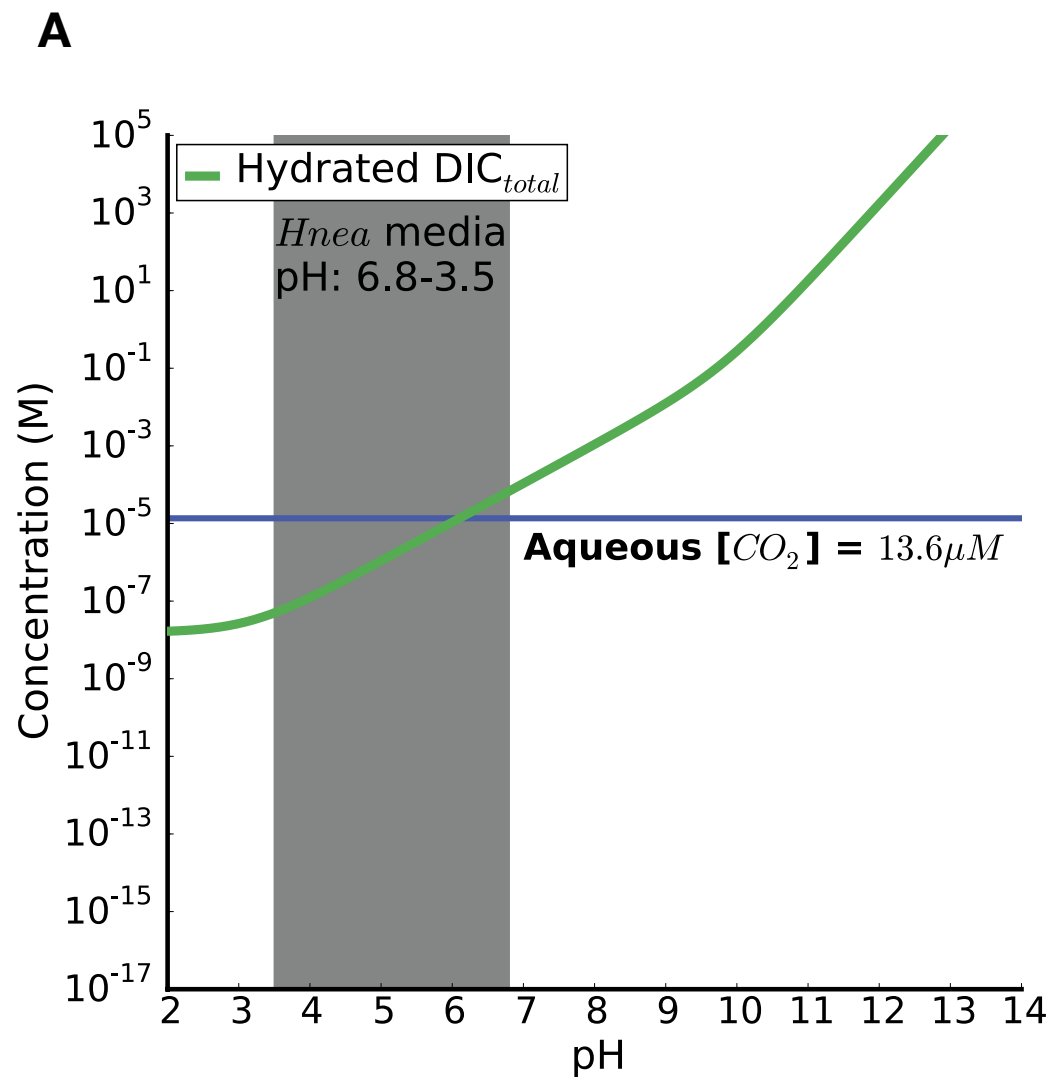


Figure 5  
Desmarais et al.

Figure 5. A model for DAB function.



**DAB:** Dab Accumulates Bicarbonate

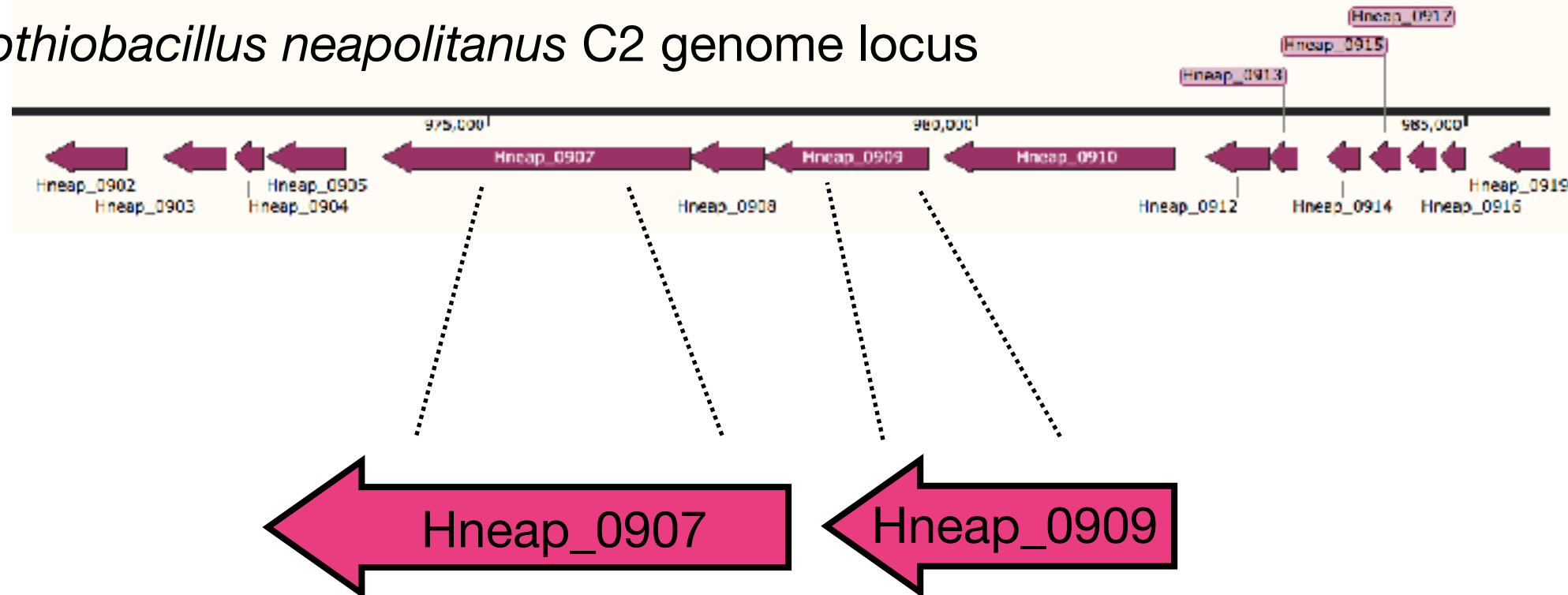


# DAB numbers for reference

gene numbers  
nucleotide length  
expected MW

# Example of the DAB1 genome locus

*Halothiobacillus neapolitanus* C2 genome locus



**Annotation:** Domain of unknown function (**DabA**)    Proton-conducting membrane protein (**DabB**)

named **DAB1**: 'DUF Associated with Bicarbonate #1'

**DAB2** is highly homologous and composed of similar genes



$\alpha$  Carboxysomes: *Halothiobacillus neapolitanus*

