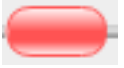


- *fs-chlD* gene with a frameshifting signal and a frameshift mutation



- Mg\_chelatase domain (PF01078.21)



- AAA\_lid\_2 domain (PF17863.1)



- VWA\_2 domain (PF13519.6)

*fs-chlD* gene from  
*Methanocaldococcus* sp. FS406-22



Translation with  
frameshifting

Yes

No



Long product (679 aa) is similar  
to the ChlD protein



Short product (362 aa) is similar  
to the ChlI protein

*Synechocystis* sp. PCC 6803 (photosynthetic cyanobacteria):



BAA16787.1 – ChlD protein  
(medium Mg-chelatase subunit, 676 aa)



BAA17166.1 – ChlI protein  
(small Mg-chelatase subunit, 357 aa)