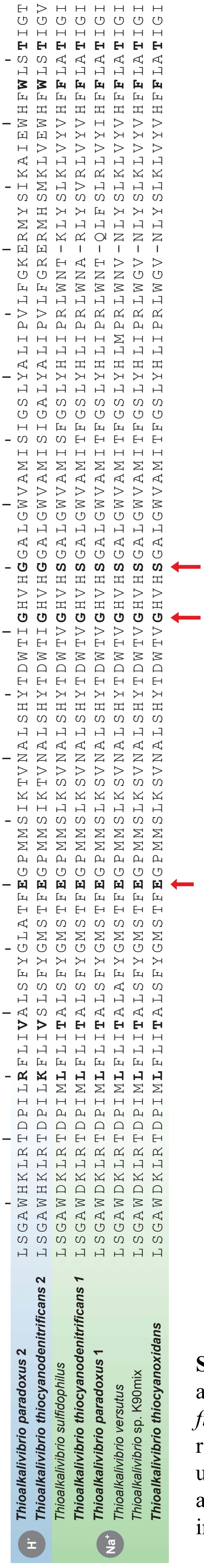
Comparative Genome Analysis of Three Thiocyanate Oxidizing Thioalkalivibrio Species Isolated from Soda Lakes

Berben, T.; Overmars, L.; Sorokin, D.Y.; Muyzer, G.

Published in:
Frontiers in Microbiology

DOI:
10.3389/fmicb.2017.00254



Supplementary Figure S1: Alignment of *Thioalkalivibrio* cytochrome *cbb*$_3$ oxidase amino acid sequences. The top two sequences, belonging to *Tv. paradoxus* and *Tv. thiocyanodenitrificans*, translocate protons. All the others translocate sodium ions. Residues printed in bold represent those described by Muntyan et al. (Muntyan et al., 2015), as conserved in sodium-translocating *cbb*$_3$ proteins (225L, 229T, 340E, 361G, 365S and 406T), except for those at position 406 – these show the W conserved in H+-translocating variants. The red arrows indicate residues forming the sodium channel.