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

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

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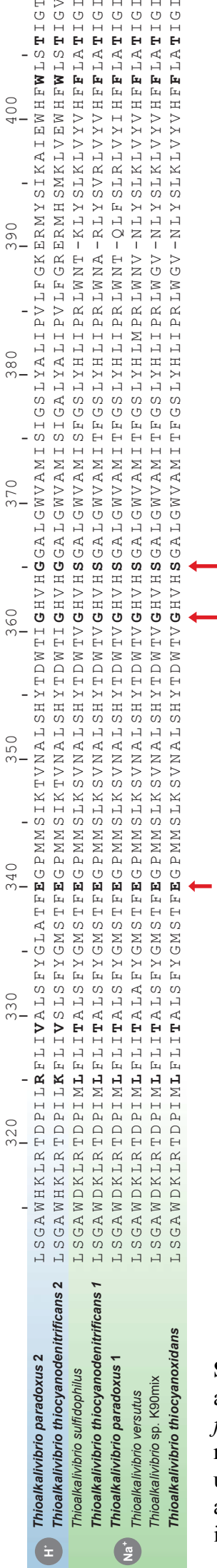
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Supplementary Figure S1: Alignment of *Thioalkalivibrio* cytochrome *cbb₃* oxidase amino acid sequences. The top two sequences, belonging to *Tv. paradoxus* and *Tv. thiocyanodentrificans*, translocate protons. All the others translocate sodium ions. Residues printed in bold represent those described by Muntyan et al. (Muntyan et al., 2015), as conserved in sodium-translocating *cbb₃* 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.