

Suppl. Table 1. Differences identified between ancestor and *H. volcanii* reference genome

Position	Mutation	Genic region	Amino acid change	Protein	nonsyn/syn
NC_013964:167873	A>C	Coding	Valin>Glycine	ABC-transporter substrate binding protein	nonsyn
NC_013964:359036	G>C	Coding	Glycin>Arginin	cytochrome oxidase-I	nonsyn
NC_013967:2410564	A>G	Coding	Leucine>Proline	50S ribosomal protein L32e	nonsyn