

Additional file 14

Table with description of strains and plasmids used in this study

Strain or plasmid	Description	Source or reference
Strains		
WT	<i>S. erythraea</i> NRRL23338	
HP	<i>S. erythraea</i> ABE1441	Acies Bio
Plasmids		
pABE56	pSet152 derivative for the <i>PerME</i> * controlled expression of <i>bkd</i> operon (SACE_3952-3954)	This study
pABE60	pSet152 derivative for the <i>PerME</i> * controlled expression of <i>mmsOp1</i> (SACE_1456-1459)	This study
pABE61	pSet152 derivative for the <i>PerME</i> * controlled expression of <i>ilvB1</i> (SACE_4565)	This study
pABE62	pSet152 derivative for the <i>PerME</i> * controlled expression of <i>ilvB1</i> -HA tag	This study
pABE87	pSet152 derivative for the <i>PerME</i> * controlled expression of <i>mmsOp1</i> -HA tag	This study
pABE88	pSet152 derivative for the <i>PerME</i> * controlled expression of <i>ilvB1-mmsOp1</i> -HA tag	This study
pABE89	pSet152 derivative for the <i>PerME</i> * controlled expression of <i>mmsOp1-ilvB1</i> -HA tag	This study
pABE95	pSet152 derivative for the <i>PerME</i> * controlled expression of <i>mmsOp2</i> (SACE_4672-4673)	This study

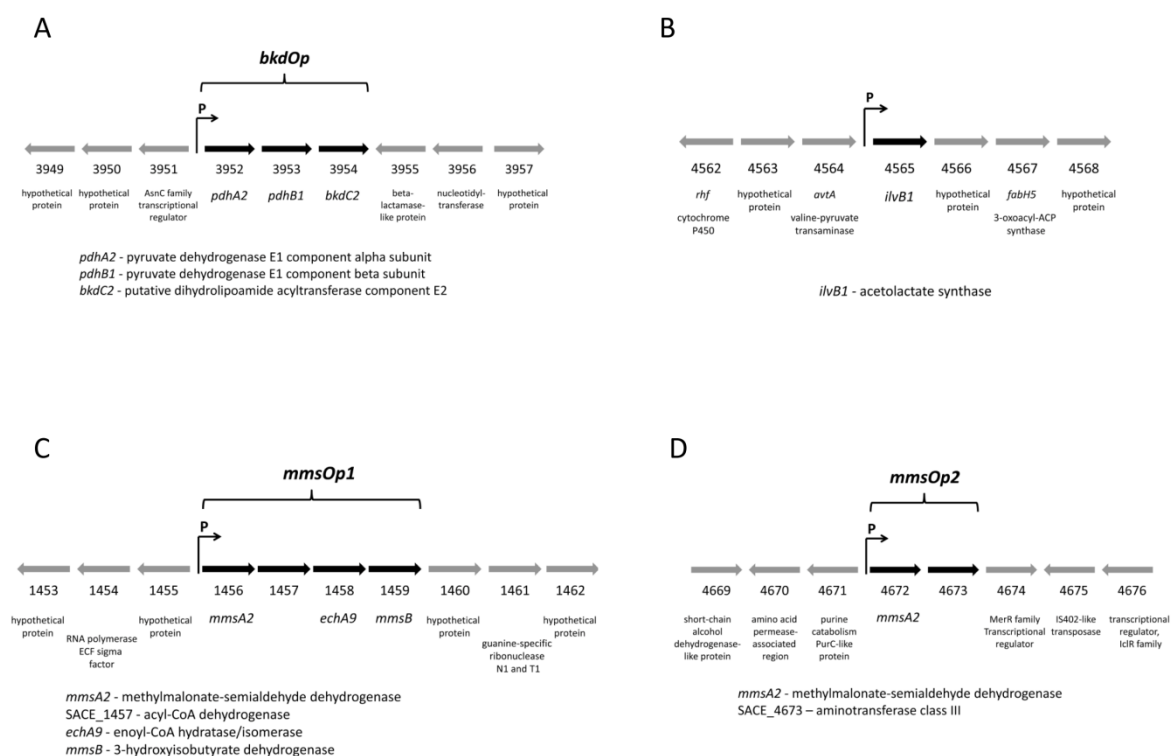


Figure: Graphical representation of the over-expressed operons/genes. Genes located close to operons/genes and their putative functions are indicated. SACE numbers are indicated under the arrows. All constructs were expressed under the control of strong constitutive promoter (P) *ermE.**

A) *bkdOp* - operon encoding putative branched-chain ketoacid dehydrogenase subunits. **B) *ilvB1*** - putative acetolactate synthase. **C) *mmsOp1*** - operon encoding putative methylmalonate-semialdehyde dehydrogenase, acyl-CoA dehydrogenase, enoyl-CoA hydratase and 3-hydroxybutyrate dehydrogenase. **D) *mmsOp2*** - operon encoding putative methylmalonate-semialdehyde dehydrogenase homologue.