

Supplementary Table 1. Strains and Plasmids

Strain/Plasmid	Relevant properties	Reference
Strain		
DH5alpha	<i>E. coli</i> Φ 80 <i>lacZ</i> Δ M15 (<i>argF-lac</i>) U169 <i>recA</i> <i>endA1</i> <i>hsdR17</i> (r^m^+) <i>supE44</i> <i>thi-1</i> <i>gyrA96</i> <i>relA1</i> <i>phoA</i>	Invitrogen
DL739	<i>E. coli</i> MC4100 <i>dam-13::Tn9</i>	[20]
H99	<i>Hfx. volcanii</i> DS70 Δ <i>pyrE2</i> Δ <i>hdrB</i> Δ <i>trpA</i>	[21]
KD5	H99 Δ <i>tatAo::trpA</i> ⁺	[22]
KD23	H99 containing pKD13	[12]
KD26	H99 containing pKD17	[12]
KD27	H99 containing pKD18	[12]
KD32	H99 containing pKD23	[12]
KD35	H99 containing pKD26	[12]
KD37	H99 containing pKD28	[12]
ST91	H99 containing pST10	this study
ST96	H99 containing pST11	this study
ST101	H99 containing pST12	this study
ST106	KD5 containing pST10	this study
ST107	H99 containing pST6	this study
ST111	H99 containing pST7	this study
ST114	H99 containing pST8	this study
ST118	KD5 containing pST6	this study
ST126	H99 containing pST17	this study
ST128	H99 containing pST18	this study
ST135	H99 containing pST14	this study
ST137	H99 containing pST15	this study
ST139	H99 containing pST16	this study
ST167	H99 containing pST19	this study
ST168	KD5 containing pST11	this study
ST171	KD5 containing pST7	this study
ST176	KD5 containing pKD28	this study
ST177	KD5 containing pKD26	this study
ST178	KD5 containing pKD13	this study
ST179	KD5 containing pKD17	this study
ST180	KD5 containing pKD23	this study
SI44	H99 containing pSI44	this study
SI45	H99 containing pSI45	this study
Plasmid		
pMLH3	(<i>Amp</i> ^r , <i>Nb</i> ^r , <i>Mev</i> ^r) <i>H. volcanii</i> - <i>E. coli</i> shuttle vector	[18]
pST6	<i>P_{fdx}</i> - <i>Hvo1242-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	this study
pST7	<i>P_{fdx}</i> - <i>Hvo1242C26S-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	this study
pST8	<i>P_{fdx}</i> - <i>Hvo1242KK-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	this study
pST10	<i>P_{fdx}</i> - <i>HvoB0139-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	this study
pST11	<i>P_{fdx}</i> - <i>HvoB0139C21S-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	this study
pST12	<i>P_{fdx}</i> - <i>HvoB0139KK-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	this study
pST14	<i>P_{fdx}</i> - <i>Hvo1808-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	this study
pST15	<i>P_{fdx}</i> - <i>Hvo1808C19S-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	this study
pST16	<i>P_{fdx}</i> - Δ <i>ssHvo1808-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	this study
pST17	<i>P_{fdx}</i> - <i>Hvo1580-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	this study
pST18	<i>P_{fdx}</i> - <i>Hvo1580C19S-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	this study
pST19	<i>P_{fdx}</i> - Δ <i>ssHvo1580-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	this study
pKD13	<i>P_{fdx}</i> - <i>exo-arabinanase-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	[12]
pKD17	<i>P_{fdx}</i> - <i>DsbA-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	[12]
pKD18	<i>P_{fdx}</i> - <i>DsbAKK-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	[12]
pKD23	<i>P_{fdx}</i> - <i>Ibp-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	[12]
pKD26	<i>P_{fdx}</i> - <i>IbpCxS-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	[12]
pKD28	<i>P_{fdx}</i> - <i>DsbAC22S-myc</i> cloned into pMLH3 replacing <i>Mev</i> ^r cassette	[12]
pRV1-ptna	(<i>Amp</i> ^r , <i>Nb</i> ^r) <i>H. volcanii</i> - <i>E. coli</i> shuttle vector	[19]

pSI44	<i>Hvo0494-his</i> cloned into pRV1- <i>ptna</i> via <i>NdeI/EcoRI</i> restriction sites	this study
pSI45	<i>Hvo0494C20S-is</i> cloned into pRV1- <i>ptna</i> via <i>NdeI/EcoRI</i> restriction sites	this study