

Operon	Genome									
	YP	YE	PM	AA	HI	HD	VV	VP	VC	VF
	Regulatory sites									
Lytic murein transglycosylase										
<i>mltA</i>	--N	--N	---	---	---	-a-	---	fA-	fA-	-A-
Metabolism of nucleotides										
<i>pyrG</i>	---	---	F--	---	F--	Fa-	F--	F--	F--	Fa-
<i>ndk</i>	-A-	-A-	-A-	-A-	-A-	---	---	---	---	---
Transport										
<i>nhaB-dsbB</i> [#]	-A-	fA-	-A-	-A-	f--	fA-	-A-	---	fAn	fA-
<i>yhdWXYZ</i> [#]	0	--n	0	0	0	0	-A-	-A-	-A-	fA-
<i>brnQ</i>	---	---	---	---	-a-	-a-	-A-	fA-	fAn	-A-
<i>mtr</i>	---	f--	--N	---	fAn	-aN	0	0	0	0
<i>yhjX</i>	0	---	0	0	0	-a-	-A-	-A-	-A-	---
Heat shock shaperones										
<i>dnaKJ</i>	FA-	FA-	fA-	-A-	--n	-A-	-A-	fA-	-A-	-A-
Peptidyl-prolyl cis-trans isomerase										
<i>fkpA</i> [#]	---	---	f-N	--N	--N	---	---	f--	-an	f--
Transcription regulators										
<i>fadR</i> [#]	-A-	fA-	-A-	-A-	f--	fA-	FA-	---	FAn	FA-
<i>gcvA</i>	--n	---	--N	--N	-aN	fA-	---	---	---	f--
<i>torR</i> [#]	0	0	0	0	0	0	Fa-	F-n	Fa-	F--
<i>sgrR</i>	---	---	0	0	0	0	--N	f-N	f-N	---
Metabolism of folates and one-carbon compounds										
<i>yjjPB-folA</i>	--n ^{13a}	--- ^{13a}	f-N ^{13a}	--N ^{13a}	f-N ^{13a}	--N ^{13b}	--- ^{13a}	-a- ^{13a}	-an ^{13a}	f-- ^{13a}
<i>glyA</i>	---	--n	-a-	--n	---	0	FA-	FA-	FA-	F--
Heme metabolism										
<i>hemE</i>	fA-	---	---	fA-	0	0	-A-	-A-	-A-	-A-
Genes for sulfur metabolism										

<i>cysJH</i>	---	---	0	0	0	0	--N	--N	---	--N
Metabolism of aminoacids										
<i>argD</i>	---	---	---	0	0	---	-A-	-A-	fA-	fA-
<i>aroH</i>	--n	-a-	0	0	0	0	-A-	-A-	-A-	-A-
Biotin metabolism										
<i>bioABFCD</i>	F-- ^{14a} F-- ^{14b}	F-- ^{14a} F-- ^{14b}	-a- ^{14c} --- ^{14d} F-- ^{14e}	--N ^{14c} f-- ^{14d} F-- ^{14e}	--N ^{14c} --- ^{14d} Fa- ^{14e}	f-N ^{14c} -a- ^{14d} Fan ^{14e}	f-- ^{14a} f-- ^{14b}	f-- ^{14a} f-- ^{14b}	--- ^{14a} --- ^{14b}	--- ^{14a} --- ^{14b}
DNA repair										
<i>VV12876-75-74-tag</i>	--- ^{15a}	--- ^{15a}	-A- ^{15a}	fA- ^{15a}	-A- ^{15a}	0	-A- ^{15b}	-An ^{15b}	-A- ^{15b}	-A- ^{15b}
Colicin transpot system										
<i>ompW</i>	F-N	F-N	fa-	-an	0	0	0	f--	f--	0
<i>tolB-pal-ybgF</i>	-A-	fA-	f--	-A-	-An	-A-	-a-	---	-a-	---
RNA helicase										
<i>srmB</i>	---	---	---	---	---	fa-	-A-	fA-	fA-	-A-
Unknown function										
<i>VV12099</i>	0	0	0	0	0	0	F-N	F-N	Fa-	FaN
<i>mrp</i>	F--	F--	---	--N	f-N	f-N	---	---	f--	f--
<i>yfiO</i>	F--	F--	---	---	---	-a-	-A-	---	fA-	-A-
<i>yhbUV</i>	fa-	---	0	0	0	0	--N	--N	--N	--N
<i>VV12702[#]</i>	0	0	0	0	0	0	-A-	-A-	-A-	fA-
<i>yjcE</i>	-a-	f--	---	0	0	0	-A-	-A-	-A-	fA-
<i>yfiC[#]</i>	---	---	---	---	---	-a-	-A-	fA-	fAn	-A-
<i>VV10415</i>	0	0	0	0	0	0	-A-	-A-	fA-	-A-
<i>VV11834</i>	0	0	0	0	0	0	fA-	-A-	fA-	-A-
<i>slyX[#]</i>	---	---	--N	--N	--N	---	---	f--	-a-	0
<i>yhjA</i>	f--	0	-an	f-n	0	0	F--	F--	F--	-a-
<i>slyB</i>	f--	-a-	-A-	---	-A-	-A-	---	---	0	0
<i>VV12768-67-66-65</i>	0	0	0	0	0	0	-A-	-A-	-A-	0
<i>VV12695</i>	0	0	---	---	f--	---	-A-	-A-	-An	---
<i>VV20742</i>	0	0	0	0	0	0	-A-	-An	-A-	0

<i>VV12832</i>	0	0	0	0	0	0	-An	-A-	-A-	0
<i>VV12996</i>	0	0	-a-	---	---	0	-A-	---	-A-	fA-
<i>VV11084</i>	0	0	0	0	0	0	-A-	-A-	-A-	0