

### Chromogenes MLST – Loci, primer sequences, allele data

Locus	Genome Position	Gene	PCR Primers (5'→3')	PCR Product	MLST Allele length	Allele Sequence position in full length gene
<i>arcC</i>	NZ_JMJF01000011.1: 33633-34574	Carbamate kinase	F: CGGCGATTGACAAACTC R: TGGCAACATCGACCCTTCTG	746 bp	588 bp	133 - 720
<i>hutU</i>	NZ_JMJF01000004.1: c117597-119264	Urocanate hydratase	F: AAGGGGTTGTCATCGGTGTA R: GCATCGGAACCGTCTTTCAT	829 bp	693 bp	616 – 1308
<i>fumC</i>	NZ_JMJF01000016.1: c 13150-14535	Fumerate hydratase	F: TGCATGTCGCACTATATCAC R: CATCAATATGTTCTCAATCG	756 bp	636 bp	496 – 1131
<i>dnaJ</i>	NZ_JMJF01000003.1: c24121-25251	chaperone protein dnaJ	F: AAAGGGAGCGATAGCATTGG R: CATCACCTAACGCAGCTTGT	869 bp	747 bp	46 – 792
<i>glpF</i>	NZ_JMJF01000002.1: 157873-158688	glycerol uptake facilitator	F: TACGGTTAGGCAAGGAGTCT R: AACGACCTTGGTAGGCCAAT	759 bp	612 bp	25 – 636
<i>menF</i>	NZ_JMJF01000001.1: c120199-121551	Isochorismate synthase	F: TGTCACACCTGAAGAACAACA R: TAACGCTTGGTTACCTTGAATC	730 bp	597 bp	592 – 1188
<i>pta</i>	NZ_JMJF01000001.1: 485851-486840	Phosphate transacetylase	F: AACGCCCCCTTGGAAGGTC R: TGGATTTTAGCGCCCGGTG	870 bp	690 bp	13 – 702