

Gene	Enzyme function	Primer	Sequence (5'-3')
<i>ddlA</i>	D-Ala-D-Ala ligase	ddl-f ddl-r	GTTTTCCAGTCACGACGTTGTTAGAATCGCTGGACCGTGA TTGTGAGCGGATAACAATTCGCCATTCTTGAACTAATTTGATCG
<i>leuS</i>	Leucyl tRNA synthetase	leus-f leus-r	GTTTTCCAGTCACGACGTTGTAGCTATTGCTTGGAGCGAAA TTGTGAGCGGATAACAATTCCTTCAACTTCAGATTCAACTAGGAAA
<i>ilvE</i>	Branched-chain aminotransferase	ilve-f ilve-r	GTTTTCCAGTCACGACGTTGTATTGCATTATGGGCAGACG TTGTGAGCGGATAACAATTCACITTTGTAATGCTCGGCAAA
<i>pyrE</i>	Orotate phosphoribosyltransferase	pyre-f pyre-r	GTTTTCCAGTCACGACGTTGTACCTTTACATGGGCTAGTG TTGTGAGCGGATAACAATTCCTCCGCTTAAATTGAACCCATTTTC
<i>dapE</i>	N-succinyl-L-L-diaminopimelic acid desuccinylase	dape-f dape-r	GTTTTCCAGTCACGACGTTGTGCGAGAAGAACTTCTGCAA TTGTGAGCGGATAACAATTCCTCAATAGATTGTAATAGGCCTCAA
<i>pyc</i>	Pyruvate carboxylase	pyc-f pyc-r	GTTTTCCAGTCACGACGTTGTCAGATTTTAGGCGATACTCATG TTGTGAGCGGATAACAATTCCTCTGGAGATGTATCAATAAAAGTTGTTT
<i>glpQ</i>	Glycerophosphodiester phosphodiesterase	glpq-f glpq-r	GTTTTCCAGTCACGACGTTGTAATAATTGCCATCGAGGAA TTGTGAGCGGATAACAATTTCTATTAATGCTATCTCTGGATAATCTG