1   **Supporting information**

2   **Table S1: Primers used in this study.**

Primer	Amplified locus	Sequence (5'-3') [a]
pheS -F	*pheS*	CAYCCNGCHCGYGAYATGC
pheS -R	*pheS*	CCWARVCCRAARGCAAARCC
rpoA-F	*rpoA*	ATGATYGARTTTGAAAAACC
rpoA-R	*rpoA*	ACHGTRTTRATDCCDGCRCG
atpA-F	*atpA*	TAYRTYGGKGAYGGDATYGC
atpA-R	*atpA*	CCRCGRTTHARYTTHGCYTG
bcaT-F	*bcaT*	TTTKSHRTGCCDGTWGG
bcaT-R	*bcaT*	GGWCCHACTTCYGTYTC
pepN-F	*pepN*	ATKTCTTAYGCWGAYRTYGT
pepN-R	*pepN*	TTKCTTCAAGSMAWGSCC
pepX-F	*pepX*	TTTGGGTTGAAAGTCCAGT
pepX-R	*pepX*	CCAAGAAGAAATTCCAGC
SSU-F	16S rRNA	GCGGCGTGCCTAATACATGC
SSU-R	16S rRNA	ATCTACGCATTTCACCGCTAC
malE-F	*malE*	TGGAAAAAGTTGCTCTTGG
malE-R	*malE*	GTCATATTGTGAAGCAGGAG
malF-F	*malF*	TTCTTTACCACCTGAAGCCA
malF-R	*malF*	GCCCTCCTTAAATGCATTAG
malG-F	*malG*	CTCTAACATTCCGTTACCTT
malG-R	*malG*	GCTGTGATTCCATTGACGTA
pip-F	*pip*	AAATGACTCTTGCTTCCGA
pip-R	*pip*	TACATGGAAGTTGTTTGCCC
arb-F	*arb*	GTTAAATCTTCACCGTTGCT
arb-R	*arb*	ACTGCAGCTAATCAATGTGA
yrcB-F	*yrcB*	TTCTTTTTCTGGTTCTGCCC
yrcB-R	*yrcB*	GCCTGTCGCTATTATCCTAC
dsxB-F	*dxsB*	TAAATTCACGTTTCGCACCA
dsxB-R	*dxsB*	AGAAAAAATAGACAGCCCAGC
kinF-F	*kinF*	TGCTATCCACACGAATTCTAAC
kinF-R	*kinF*	TGTTGCTTTAGCCGTGATT
IlrF-F	*IlrF*	CTGTCATAACCCCAAATCCG
IlrF-R	*IlrF*	AGGTTTATGATGGAGTTGAAGG
rliA-F	*rliA*	TTGCACTTGCCCCTAATTG
rliA-R	*rliA*	CGGTCAGTCGGGTCATTA
mapA-F	*mapA*	TGTGGTAAAAATGGGGCAAA
mapA-R	*mapA*	ATTGAAAAAGAAGACCGTCG

agl-F	*agl*	CGATATTCCCAGGCTGAC
agl-R	*agl*	CTACGTGAATTGGGGATTG
amyY-F	*amyY*	GTGCTGTAAGCTGGAATTG
amyY-R	*amyY*	CAGTAAAAAAAGCGGCTG
maa-F	*maa*	CGTTCTCTTTTTCTTCCCAG
maa-R	*maa*	AGAATGGTTGCTGGCGAA
dexA-F	*dexA*	CTATTCCACTTCGCAAGCA
dexA-R	*dexA*	ATTGGTGGCAAAAAACAGTC
dexC-F	*dexC*	GCTTTCAAAGATCCACGTT
dexC-R	*dexC*	GCAATTTATCATCGTCCTGAG
yreA-F	*yreA*	AATCTTCCGAAAACAACGAG
yreA-R	*yreA*	CCAGAAATTTGAACCCCTTC
yreB-F	*yreB*	AATAAAGGGTCAGTGGGAAC
yreB-R	*yreB*	GGTTTCTACGGGGCTTAAAT
yreC-F	*yreC*	AGGCTGACGAGATTGAAG
yreC-R	*yreC*	CCCACTTTTGTACGTCTTTT
yreD-F	*yreD*	CCAGACGATGTGTCCAAAAA
yreD-R	*yreD*	TCGTTGGATTGGTTTTTGGG
hyp-F	*hyp*	CCACGTTGACCTCTTTCA
hyp-R	*hyp*	ATGGTCAAAAAAGCGAGTGA
yreE-F	*yreE*	AATTTCACCGCTCGTACT
yreE-R	*yreE*	ATCTAAAGAAGCGGCACAG
tra981I-F	*tra981I*	AGGCTTCGATGTACCAGA
tra981I-R	*tra981I*	GGCTCAAACCATACAAACTT
yrdA-F	*yrdA*	TCACTTCTTTTTCTCGGCGA
yrdA-R	*yrdA*	CGCTTTCTATCATTCTGGTC
yrdB-F	*yrdB*	AAACCCTTATCTCGTCACTAC
yrdB-R	*yrdB*	ATTCTGTACCATCTTCCGTT
malEFG-F	*malEFG*	GGAAACACA<u>TCATGA</u>AATCATGG
malEFG-R	*malEFG*	AGAAGAGATAAAAA<u>GCATGC</u>CG
malE-R2	*malE*	TCTGAACATATAACTTTGTCCTCCTCTATTATTTTAGTTGCTTTAGAGATAG
malFG-F2	*malFG*	CTATCTCTAAAGCAACTAAATAATAGAGGAGGACAAAGTTATATGTTCAGA

1   [a] Y, R, H, D, K, Y, W, M, and N are degenerate nucleotides: R for A or G; M for A or C; Y for C or T;

2   K for G or T; W for A or T; N for A, G, C or T; S for G or C; H for A, C or T; and D for A or G or T.

3   Inserted restriction sites are indicated by underlined sequence.