

Supplementary Table 1. Putative antimicrobial resistance genes in *Enterococcus faecium* BGZLM1-5.

Antibiotic	Gene	Alignment Length/Gen e Length	Contig	Position in contig	Identity	Accession number
Macrolides	<i>msrC</i>	1479/1479	NODE_3_length_98575_cov_51.187084	82311..83789	98.9182	AY004350
Aminoglycosides	<i>aac(6')-II</i>	549/549	NODE_29_length_33826_cov_40.384997	19036..19584	99.6357	L12710
Disinfectant	<i>ClpL</i>	2115/2115	NODE_55_length_15392_cov_159.710514	82311..83789	99.2908	CP023753

Note: Selected %ID threshold for ResFinder: 90 %; Selected minimum length for ResFinder: 60%

Supplementary Table 2. Putative virulence factors in *Enterococcus faecium* BGZLM1-5.

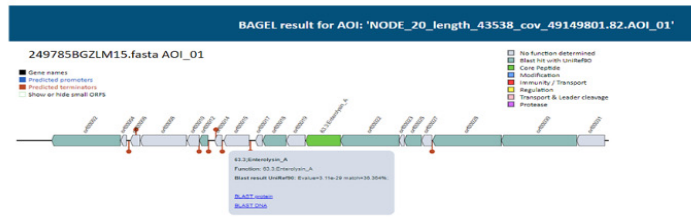
VFclass	Virulence factors	Related genes	<i>Enterococcus faecium</i> BGZLM1-5 (Prediction)
			draft (draft)
Adherence	Ebp pili	<i>ebpA</i>	orf00624; orf00625; orf02460
		<i>ebpB</i>	orf00623
		<i>ebpC</i>	orf00622
		<i>srtC</i>	orf00621
	EcbA	<i>ecbA</i>	orf01267
	EfaA	<i>efaA</i>	orf01774; orf02610
	SgrA	<i>sgrA</i>	orf01406
Antiphagocytosis	Capsule	<i>cpsA/uppS</i>	orf01658
		<i>cpsB/cdsA</i>	orf01657
Biofilm formation	BopD	<i>bopD</i>	orf01915
Immune evasion	Capsule(<i>Streptococcus</i>)	-	orf02634
Enzyme	Serine-threonine phosphatase(<i>Listeria</i>)	<i>stp</i>	Orf00250
Iron uptake	Periplasmic binding protein-dependent ABC transport systems(<i>Vibrio</i>)	<i>vctC</i>	Orf00050
Surface protein anchoring	Lipoprotein diacylglyceryl transferase(<i>Listeria</i>)	<i>igT</i>	orf00792

10 **Supplementary Table 3.** Putative plasmids identification against a gram-positive database using
 11 PlasmidFinder of *Enterococcus faecium* BGZLM1-5.

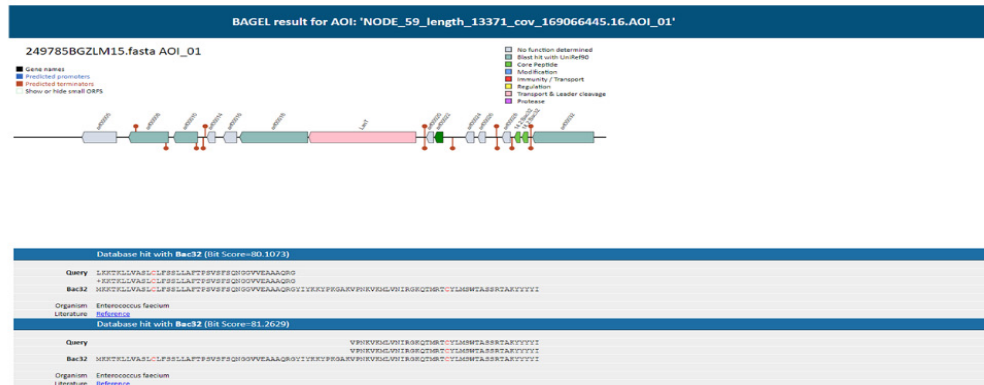
Database	Plasmid	Query / Template length	Contig	Position in contig	Note	Accession number
Rep3	rep18a	933/933	NODE_59_length_13371_cov_169.066445	1118..2050	repA(p200B)	AB158402
	rep29	738/738	NODE_83_length_6222_cov_290.081214	4751..5488	ORF8(pCIZ2)	DQ832184
Inc18	rep2	1494/1494	NODE_79_length_7592_cov_226.482786	4272..5765	orf1(pRE25)	X92945
RepA_N	repUS15	1041/1041	NODE_20_length_43538_cov_49.149801	39121..40161	repA(pNB2354p1)	CP004064

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 13 **Supplementary Figure 1.** The presence of genes encoding bacteriocins and non-bactericidal
 14 post-translationally modified peptides using the BAGEL4 online tool.

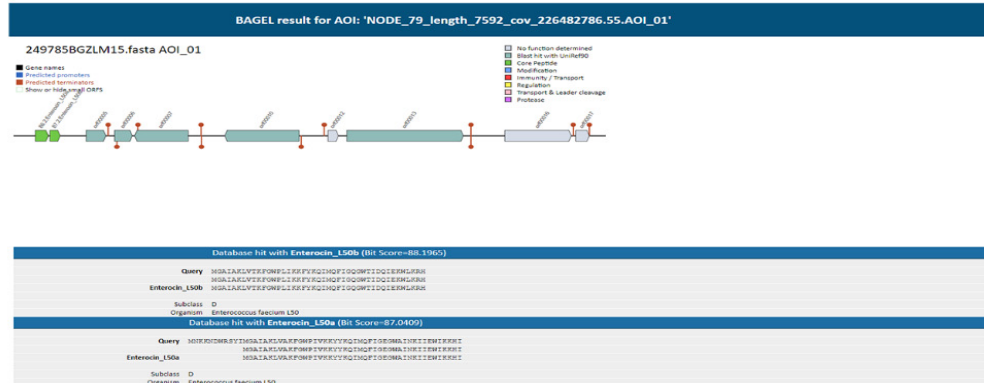
A)



B)



C)



D)

