

Table S1

Gene (Protein; aas)	Name (aas)	Gene/Locus Tag	%Id ²	Comments ³
<u>Bacteriocin</u>				
<i>gaeA</i> (Gassericin E; 75)	Gassericin T (75)	<i>gatA</i>	99 (74/75)	Bacteriocin Gassericin T (<i>L. gasseri</i> SBT2055)
	Gassericin T (75)	<i>gatA</i>	99 (74/75)	Prepeptide Gassericin T (<i>L. gasseri</i> LA158)
	Acd221β (75)	<i>orfB3</i>	99 (74/75)	Putative complement factor (<i>L. gasseri</i> LF221)
	GasK7B_α (75)	<i>orfB3</i>	99 (74/75)	Putative gassericin K7 B complemental factor (<i>L. gasseri</i> K7)
	LafA (75)	<i>lafA/HMPREF0514_11040</i>	97 (73/75)	Bacteriocin lactacin-F subunit LafA (<i>L. gasseri</i> JV-03)
	GasK7B_α (75)	LK7_003370	97 (73/75)	Putative gassericin K7 B complemental factor (<i>L. gasseri</i> K7)
<i>gaeX</i> (GaeX; 65)	GatX (65)	<i>gatX</i>	100 (65/65)	Putative bacteriocin complemental factor (<i>L. gasseri</i> SBT2055)
	-	HMPREF0514_11039	100 (65/65)	Bacteriocin-type signal sequence (<i>L. gasseri</i> JV-03)
	GatX (65)	<i>gatX</i>	100 (65/65)	Bacteriocin (<i>L. gasseri</i> LA158)
	GasK7B_β	LK7_003375	100 (65/65)	Gassericin K7 B (<i>L. gasseri</i> K7)
	GatX (65)	<i>gatX</i>	100 (65/65)	Bacteriocin (<i>L. gasseri</i> G7)
	Acd221B (65)	-	98 (64/65)	Acidocin LF221B (<i>L. gasseri</i> LF221)
	GasK7B_β	-	98 (64/65)	Gassericin K7 B (<i>L. gasseri</i> K7)
<i>gaeI</i> (GaeI; 88) ¹	ORF-6 (112)	<i>orf-6</i>	100 (88/112)	Putative immunity protein (<i>L. gasseri</i> SBT2055)
	GatI (112)	<i>gatI</i>	100 (88/112)	Putative immunity protein (<i>L. gasseri</i> LA158)
	Aci221B (112)	-	100 (88/112)	Putative immunity protein (<i>L. gasseri</i> LF221)
	GaiK7B (112)	-	100 (88/112)	Putative gassericin K7 B immunity protein (<i>L. gasseri</i> K7)
	- (112)	LK7_003380	100 (88/112)	Putative gassericin K7 B immunity protein (<i>L. gasseri</i> K7)
	- (112)	HMPREF0514_11038	100 (88/112)	Hypothetical protein (<i>L. gasseri</i> JV-03)
	- (99) ¹	-	100 (88/99)	Putative immunity protein (<i>L. gasseri</i> G7) AHE41140 (Stoyancheva)
<u>Regulation</u>				
<i>gaeP</i> (GaeP; 50)	- (50)	HMPREF0514_11046	100 (50/50)	Hypothetical protein (<i>L. gasseri</i> JV-03)
	GatP (50)	<i>gatP</i>	100 (50/50)	Putative pheromone peptide (<i>L. gasseri</i> LA158)
	- (50)	LK7_003345	100 (50/50)	Lactacin F two-component system inducer peptide precursor (<i>L. gasseri</i> K7)
<i>gaeK</i> (GaeK; 435)	GatK (435)	<i>gatK</i>	99 (430/435)	Putative Histidine Kinase (<i>L. gasseri</i> LA158)
	- (437)	LK7_003350	98 (426/435)	Histidine Kinase (<i>L. gasseri</i> K7)
	- (292)	HMPREF0514_11045	98 (279/284)	Hypothetical protein (<i>L. gasseri</i> JV-V03)
<i>gaeR</i> (GaeR; 265)	- (265)	<i>abpR/HMPREF0514_11043</i>	100 (265/265)	LytTr DNA-binding domain protein (<i>L. gasseri</i> JV-V03)
	GatR (265)	<i>gatR</i>	100 (265/265)	Putative response regulator (<i>L. gasseri</i> LA158)
	- (265)	LK7_003355	100 (265/265)	Chemotaxis protein CheY (<i>L. gasseri</i> K7)
<u>Transport</u>				
<i>gaeT</i> (GaeT; 719)	- (719)	<i>comA/HMPREF0514_11042</i>	99 (718/719)	ABC-type bacteriocin transporter (<i>L. gasseri</i> JV-V03)
	- (719)	LK7_003360	99 (718/719)	Peptide ABC transporter ATP-binding protein (<i>L. gasseri</i> K7)
	GatT (719)	<i>gatT</i>	99 (718/719)	Putative ABC-transporter (<i>L. gasseri</i> LA158)
	ORFB1 (465) ¹	<i>orfB1</i>	99 (465/465)	Putative ABC-transporter (<i>L. gasseri</i> K7)
<i>gaeC</i> (GaeC; 197)	ORFB2 (197)	<i>orfB2</i>	99 (195/197)	Putative gassericin K7 B accessory protein (<i>L. gasseri</i> K7)
	- (197)	HMPREF0514_11041	99 (195/197)	Hypothetical protein (<i>L. gasseri</i> JV-V03)
	- (197)	LK7_003365	99 (195/197)	Putative gassericin K7 B accessory protein (<i>L. gasseri</i> K7)
	ORF2 (197)	<i>orf-2</i>	98 (194/197)	Hypothetical protein (<i>L. gasseri</i> SBT2055)
	GatC (197)	<i>gatC</i>	98 (194/197)	Hypothetical protein (<i>L. gasseri</i> LA158)
	ORFB1 (188)	<i>orfB1</i>	99 (186/188)	Unknown, partial (<i>L. gasseri</i> LF221)
<u>Unknown</u>				
<i>gaeZ</i> (GaeZ; 33)	ORF-3 (33)	<i>orf-3</i>	100 (33/33)	Putative expression regulator for Gassericin T (<i>L. gasseri</i> SBT2055)
	ORFB2 (33)	<i>orfB2</i>	100 (33/33)	Unknown (<i>L. gasseri</i> LF221)
	GatZ	<i>gatZ</i>	100 (33/33)	Unknown (<i>L. gasseri</i> LA158)
	ORFhip	<i>orfBhip</i>	100 (33/33)	Hypothetical protein (<i>L. gasseri</i> K7)

¹ Partial orf; ² %Id: percent of amino acids identity. The number of identical aminoacids with respect to the total lenght of the amino acids sequence compared is shown in brackets.

³ GeneBank accession numbers and references for these strains are: *L. gasseri* SBT2055 (21; AB029612); *L. gasseri* LA158 (40; AB710328); *L. gasseri* LF221 (37; AY297947); *L. gasseri* K7 (38; AY307382); *L. gasseri* K7 genome (57; ASRG02000002); *L. gasseri* JV-03 (Unpublished; ACGO02000001); *L. gasseri* G7 (51; KF724911).