

Supplementary Table 1. PCR primer sequences based on major capsid proteins of intact, incomplete, and questionable *Leu. lactis* CBA3626 prophages.

Primer	Sequence	Size (bp)
MCP1_F	GATAACGCTGACGCTTTGATGCA	725
MCP1_R	ACGTTGGTTGATGACTTGAAGACAAT	
MCP2_F	GCGACAAAGATAACAGAGGTACG	550
MCP2_R	CTGTTAATCCAGATATTGCTAAGGCA	
MCP3_F	TAGCAAACCTTGATCGACCCAGAAG	287
MCP3_R	CAGTCTTGTCTGGTTTGGGTGAT	

Supplementary Table 2. PCR primers based on major capsid protein (MCP) and endolysin (LYS) tail protein (Tail), and glyceraldehyde 3-phosphate dehydrogenase (GAPDH) were used to identify induced prophage of *Leu. Lactis*.

Primer	Sequence	Size (bp)
GAPDH_F	TTGGTGACACACACGGTACA	100
GAPDH_R	TCGTTATCGTACCATGCAGC	
MCP_F	GCGTGACATCTTTGCTGAAG	96
MCP_R	GCATCGTTGTAGATAGCCAC	
LYS_F	ACGAGGTAACCAAGCTGCAA	126
LYS_R	CCGTAGTTGCGGTACTTGAT	
Tail_F	GTGATGACCGTAAGGTTTGG	98
Tail_R	ACCATCACCGGCAACGATT	