

Supplementary Table S1. Oligonucleotides used in this study

Oligonucleotide	Sequence	Use
<i>Lp. plantarum</i>		
phoP-For	TTTTCTCGAGTGTGACGGCTAAAAATGATG	Disruption of <i>phoP</i> in <i>Lp. plantarum</i>
phoP-Rev	TTTTCTGCAGAAATTCCTTTGGTGTCAAGC	
phoP-C	CCACAAATTCGTAGCCAAAG	
pstC-For	TTTTCTCGAGTTCTACTTTGTTGCATCACG	Disruption of <i>pstC</i> in <i>Lp. plantarum</i>
pstC-Rev	TTTTCTGCAGAAAGGTCCCAGAAAGAATCC	
pstC-C	TTTATAAATTGTTTGCCAGCG	
phoU-For	TTTTCTCGAGACGGGAAGTTGAAGTAGAAC	Disruption of <i>phoU</i> in <i>Lp. plantarum</i>
phoU-Rev	TTTTCTGCAGATACATCTCCCCGACTTTTG	
phoU-C	ATTCAAGTAATCCGTGGAAC	
<i>Lc. paracasei</i>		
pstCLcas-For	TCAAAGCTTCGCACGGCAATCCCGAAGTTG	Disruption of <i>pstC</i> in <i>Lc. paracasei</i> BL23
pstCLcas-Rev	TCAGAATTCCCGAATCGCAGCACGTAGAACC	
pstCLcas-C	TCAGTTTAATTGTGATTGTGG	
phoULcas-For	ACGAAGCTTCGAATTGATTGCACTGCAG	Disruption of <i>phoU</i> in <i>Lc. paracasei</i> BL23
phoULcas-Rev	ATGGAATTCCATTGATCCCATGGTCTTC	
phoULcas-C	ATGAACGTGAAGTAGATTGG	
dphoP-F1	ATATCGAATTCCTGCAGCCCAGGTGCGACCTTCATGACTC	Amplification of <i>phoP</i> 5' arm
dphoP-R1	TCGCGTAAATGGCTGACCTGCGCAGGTTGTCATCAACAA	
dphoP-F2	TTGTTGATGACGAACCTGCGCAGGTGAGCCATTACGCGA	Amplification of <i>phoP</i> 3' arm
dphoP-R2	CTAGAACTAGTGGATCCCCGCAAAGGCAAGCGTTAGGAG	
dphoR-F1	ATATCGAATTCCTGCAGCCCCATAATCTAGATCGCATCCGTCG	Amplification of <i>phoR</i> 5' arm

dphoR-R1	CACAGGCAAAGTGACCGTGACATTCCCGACAAAGTCCAG	
dphoR-F2	CTGGACTTTGTCGGGAATGTCACGGTCACTTGCCTGTG	Amplification of <i>phoR</i> 3' arm
dphoR-R2	CTAGAACTAGTGGATCCCCCAGCTGTGCCATCGAGAC	
CphoP-F	atgttataatacaagtatcaTTTCCGAGGAGACAGCATG	Cloning of <i>phoP</i> into pT1NX
CphoP-R	tttgtagcagccggatctaTTATTCATGGGGTGCCTCC	
CphoR-F	atgttataatacaagtatcaATACCAAATGGAGGCACCC	Cloning of <i>phoR</i> into pT1NX
CphoR-R	tttgtagcagccggatctaTTTTTCATCCTCTGTGCGG	

The underlined nucleotides correspond to restriction sites introduced for cloning into pRV300. Oligonucleotides with a “-C” suffix in their names served to confirm plasmid integration at the correct locus. Nucleotides in lowercase are 5' extensions for creating homology with pT1NX for the Gibson assembly reactions.