

**Table 1: Overview of strains used in this study**

Organism	Mutation(s)/Plasmid	Tags	Selection marker(s)	Reference
<i>L. pn.</i> JR32	-	-	-	(47)
<i>L. pn.</i> Corby	-	-	-	(48)
<i>L. pn.</i> JR32	<i>dotA</i> knock-out	-	KmR	(23)
<i>L. pn.</i> JR32	<i>dotB</i> knock-out	-	KmR	(47)
<i>L. pn.</i> Corby	<i>lspDE</i> knock-out	-	KmR	(93)
<i>L. pn.</i> JR32	<i>plcA</i> knock-out	-	HygR	this study
<i>L. pn.</i> JR32	<i>plcB</i> knock-out	-	KmR	this study
<i>L. pn.</i> JR32	<i>plcC</i> knock-out	-	GmR	this study
<i>L. pn.</i> JR32	<i>plcAB</i> knock-out	-	KmR, HygR	this study
<i>L. pn.</i> JR32	<i>plcAC</i> knock-out	-	HygR, GmR	this study
<i>L. pn.</i> JR32	<i>plcBC</i> knock-out	-	KmR, GmR	this study
<i>L. pn.</i> JR32	<i>plcABC</i> knock-out	-	KmR, HygR, GmR	this study
<i>E. coli</i> DH5α	pMMB2002	-	CmR	(21)
<i>E. coli</i> DH5α	pMS12 = pMMB2002 <i>plcC</i> <sub>JR32</sub>	-	CmR	this study
<i>E. coli</i> BL21	pMS14 = pET160/GW/D-TOPO <i>plcC</i> <sub>JR32</sub> H179N	N-term. 6×His-Lumio-TEV	AmpR	this study
<i>E. coli</i> BL21	pMS17 = pET160/GW/D-TOPO <i>plcC</i> <sub>JR32</sub> S336A	N-term. 6×His-Lumio-TEV	AmpR	this study
<i>E. coli</i> DH5α	pMS18 = pMMB2002 <i>plcA</i> <sub>JR32</sub>	-	CmR	this study
<i>E. coli</i> DH5α	pMS19 = pMMB2002 <i>plcB</i> <sub>JR32</sub>	-	CmR	this study
<i>E. coli</i> BL21	pMS2 = pET160/GW/D-TOPO <i>plcC</i> <sub>JR32</sub>	N-term. 6×His-Lumio-TEV	AmpR	this study
<i>E. coli</i> DH5α	pMS29 = pGEMT-EZ 3.84kb <i>plcB</i> <sub>JR32</sub>	-	AmpR	this study
<i>E. coli</i> BL21	pMS36 = pGP172 <i>plcA</i> <sub>JR32</sub> (-SP*)	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pMS37 = pGP172 <i>plcB</i> <sub>JR32</sub> (-SP*)	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pMS38 = pGP172 <i>plcC</i> <sub>JR32</sub>	N-term. Strep	AmpR	this study
<i>E. coli</i> DH5α	pPA111 = pGEMT-EZ 3.35kb <i>plcC</i> <sub>JR32</sub>	-	AmpR	this study
<i>E. coli</i> DH5α	pPA114 = pGEMT-EZ <i>plcC</i> <sub>JR32</sub> :: <i>gmR</i>	-	AmpR, GmR	this study
<i>E. coli</i> DH5α	pPA127 = pLAW344 <i>plcC</i> :: <i>GmR</i>	-	CmR, GmR	this study
<i>E. coli</i> DH5α	pPA151 = pGEMT-EZ <i>plcB</i> <sub>JR32</sub> :: <i>kmR</i>	-	AmpR, KmR	this study
<i>E. coli</i> DH5α	pPA155 = pLAW344 <i>plcB</i> :: <i>KmR</i>	-	CmR, KmR	this study
<i>E. coli</i> DH5α	pPA158 = pEGMT-EZ 2.65kb <i>plcA</i> <sub>JR32</sub>	-	AmpR	this study
<i>E. coli</i> DH5α	pPA159 = pEGMT-EZ <i>plcA</i> <sub>JR32</sub> :: <i>hygR</i>	-	AmpR, HygR	this study
<i>E. coli</i> DH5α	pPA160 = pLAW344 <i>plcA</i> :: <i>hygR</i>	-	CmR, HygR	this study
<i>E. coli</i> BL21	pPA163 = pET160/GW/D-TOPO <i>plcA</i> <sub>JR32</sub> (-SP*)	N-term. 6×His-Lumio-TEV	AmpR	this study
<i>E. coli</i> BL21	pPA164 = pET160/GW/D-TOPO <i>plcB</i> <sub>JR32</sub> (-SP*)	N-term. 6×His-Lumio-TEV	AmpR	this study
<i>E. coli</i> BL21	pPA175 = pGP172 <i>plcC</i> <sub>JR32</sub> D251V	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pPA176 = pGP172 <i>plcC</i> <sub>JR32</sub> F253A	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pPA177 = pGP172 <i>plcC</i> <sub>JR32</sub> F244A	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pPA178 = pGP172 <i>plcC</i> <sub>JR32</sub> Y156A	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pPA179 = pGP172 <i>plcC</i> <sub>JR32</sub> F167A	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pPA180 = pGP172 <i>plcC</i> <sub>JR32</sub> H166N	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pPA181 = pGP172 <i>plcC</i> <sub>JR32</sub> D314V	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pPA182 = pGP172 <i>plcC</i> <sub>JR32</sub> R265Q	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pPA184 = pGP172 <i>plcC</i> <sub>JR32</sub> H257N	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pPA185 = pGP172 <i>plcC</i> <sub>JR32</sub> H284N	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pPA186 = pGP172 <i>plcC</i> <sub>JR32</sub> H247N	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pPA187 = pGP172 <i>plcC</i> <sub>JR32</sub> R385Q	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pPA189 = pGP172 <i>plcC</i> <sub>JR32</sub> E286A	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pPA190 = pGP172 <i>plcC</i> <sub>JR32</sub> D63V	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pPA191 = pGP172 <i>plcC</i> <sub>JR32</sub> R326Q	N-term. Strep	AmpR	this study
<i>E. coli</i> BL21	pPA192 = pGP172 <i>plcC</i> <sub>JR32</sub> H409Q	N-term. Strep	AmpR	this study

\*SP=signal peptide

**Table 2: Overview of primers used in this study**

Plasmid	Gene	Primer name	Primer sequence
pMS2	<i>plcC</i> <sub>JR32</sub>	lpg0012To_fw lpg0012_rv	5'-CACCATGAACACAACGGAACATAC-3' 5'-AAGACAGCTCAAATGGGTTACT-3'
pMS12	<i>plcC</i> <sub>JR32</sub>	cegC1_Xba1_fw cegC1_Kpn1_rv3	5'-GATTAAGTCTAGATCCATTGCTTTCAT-3' 5'-GCCACTAGTTTATCAGGTACCAATCAGACTCCC-3'
pMS18	<i>plcA</i> <sub>JR32</sub>	plcA_Xba1_fw plcA_Kpn1_rv	5'-TTAACTGAGTCTAGACCCGCTTTGTG-3' 5'-ACCATAAGGTACCCATGACTGGATCG-3'
pMS19	<i>plcB</i> <sub>JR32</sub>	plcB_Xba1_fw plcB_Kpn1_rv	5'-AACTCAACCATCTAGACGGGTAATGC-3' 5'-CCGGGATTGCGGTACCGATAATAG-3'
pMS36	<i>plcA</i> <sub>JR32</sub> (-SP)	NStrA_SacII_f2 StrepPlcA_Kpn1_r	5'-AATCCGCGGTAATGTTTTCTCTATAAC-3' 5'-GCGGTACCCTATACCAAAGGATTATC-3'
pMS37	<i>plcB</i> <sub>JR32</sub> (-SP)	NStrB_SacII_f2 StrepPlcB_Kpn1_r	5'-AATCCGCGGTAATGTTGAAGAATATCAC-3' 5'-GCGGTACCTTAAATTTTATTAACCTG-3'
pPA163	<i>plcA</i> <sub>JR32</sub> (-SP)	pa_topo2_fw plcA_Kpn1_rv	5'-CACCTTTTCTCTATAACTTATGGTG-3' 5'-ACCATAAGGTACCCATGACTGGATCG-3'
pPA164	<i>plcB</i> <sub>JR32</sub> (-SP)	pb_topo2_fw plcB_Kpn1_rv	5'-CACCAATGAAGCATCTTCTATCGAGAC-3' 5'-CCGGGATTGCGGTACCGATAATAG-3'
pPA158	2.65kb <i>plcA</i> fragment	plcA_Lokus_fw plcA_Lokus_rv	5'-GCAGGTTTGCCACCATTTC-3' 5'-CTAGCCGCCGTCCTATATC-3'
pMS29	3.84kb <i>plcB</i> fragment	plcB_Lokus_fw plcB_Lokus_rv	5'-TCGACATGCGCTGTATGAG-3' 5'-CGCATACGCAAGGGAATTCATC-3'
pPA111	3.35kb <i>plcC</i> fragment	cegC1_EcoRV_fw cegC1_EcoRV_rv	5'-GATATCGTCAGGCTGGCTAAAGTC-3' 5'-GATATCCGCTGGTCTGGATCTTC-3'
pMS38	<i>plcC</i> <sub>JR32</sub>	NStrC_SacII_f2 StrepPlcC_Kpn1_r	5'-AATACCGCGGTAATGAACACAACGGAAC-3' 5'-GCGGTACCCTCAGACTCCCAAATTC AACCC-3'
pPA159	inverse PCR for removal of <i>plcA</i> ORF and insertion of XbaI sites	plcAmutXba_fw plcAmutXba_rv	5'-TCTCTAGACTTATGATATCGCCGGCT-3' 5'-TCTCTGGACTTACGACAGGCATTGGA-3'
pPA151	inverse PCR for removal of <i>plcB</i> ORF and insertion of XbaI sites	plcBmut_Xba_f plcBmut_Xba_r	5'-TCTCTAGAAAAATACTGGAGCGGGCT-3' 5'-TCTCTAGATTGGCCCTTTATTTGGGC-3'
pPA114	insertion of SmaI sites by site directed mutagenesis	cegC1Mut_Sma_r cegC1Mut_Sma_f cegC1_5'Sma_fw cegC1_5'Sma_rv	5'-CCATTGCCCGGGTCTGTATGTTCCGTTGTGTTCA-3' 5'-TGAACACAACGGAACATACAGACCCGGGCAATGG-3' 5'-GAGGAAGAAGAGGCCCGGGTGAATTTGGGA-3' 5'-TCCCAAATTCACCCGGGCCCTTCTTCTCCTC-3'
pMS14	<i>plcC</i> <sub>JR32</sub> H179N	cegC1_H179N_fw/rv	5'-ATATTGGGT <b>A</b> ACGCTATCGCATTGAG-3'
pMS17	<i>plcC</i> <sub>JR32</sub> S336A	cegC1_S336A_fw/rv	5'-CCTAAACGGTATGACCGCA <b>G</b> CACTAA-3'
pPA175	<i>plcC</i> <sub>JR32</sub> D251V	cegC1_D251V_fw/rv	5'-GCTGTTTACTTTTCACTACTATTCTGT <b>G</b> CATTTT-3'
pPA176	<i>plcC</i> <sub>JR32</sub> F253A	plcC_F253A_f/r	5'-CACTACTATTCTGATCAT <b>G</b> CTGCTACAGGA-3'
pPA177	<i>plcC</i> <sub>JR32</sub> F244A	plcC_F244A_f/r	5'-CCAAGCTTATTCTATAGAGCT <b>G</b> CTACTTTT-3'
pPA178	<i>plcC</i> <sub>JR32</sub> Y156A	plcC_Y156A_f/r	5'-TATTTTCGCGTCAAAGAC <b>G</b> CTGGGGAAATG-3'
pPA179	<i>plcC</i> <sub>JR32</sub> F167A	plcC_F167A_f/r	5'-TCGGAACCAAACCTCAT <b>G</b> CTACGCCATGGTC-3'
pPA180	<i>plcC</i> <sub>JR32</sub> H166N	cegC1_H166_qc_fw/rv	5'-GAACCAA <b>A</b> CTAATTTACGCCATG-3'
pPA181	<i>plcC</i> <sub>JR32</sub> D314V	cegC1_D314V_f/r	5'-GCACGTGGGG <b>T</b> TGGGAAATTTG-3'
pPA182	<i>plcC</i> <sub>JR32</sub> R265Q	cegC1_R265Q_fw/rv	5'-GGCGATTTAC <b>A</b> AGTCGTATTAAGAGCG-3'
pPA184	<i>plcC</i> <sub>JR32</sub> H257N	cegC1_H257N_fw/rv	5'-TCATTTTGTACAGGA <b>A</b> ATATGTCCATGAT-3'
pPA185	<i>plcC</i> <sub>JR32</sub> H284N	cegC1_H284N_fw/rv	5'-GCAATATCCTGGTAATAATCTT <b>A</b> ATGATG-3'
pPA186	<i>plcC</i> <sub>JR32</sub> H247N	cegC1_H247N_fw/rv	5'-GCTTATTCTATAGAGCTGTTACTTTT <b>A</b> ACTACT-3'
pPA187	<i>plcC</i> <sub>JR32</sub> R385Q	cegC1_R385_qc_fw/rv	5'-AGTATATTACC <b>A</b> GAACAATCTCAG-3'
pPA189	<i>plcC</i> <sub>JR32</sub> E286A	plcC_E286A_f/r	5'-CCTGGCTAATAATCTTCATGAT <b>G</b> CAGTAAA-3'
pPA190	<i>plcC</i> <sub>JR32</sub> D63V	cegC1_D63V_fw/rv	5'-GCGGGTGT <b>C</b> TACTTTACACAGG-3'
pPA191	<i>plcC</i> <sub>JR32</sub> R326Q	cegC1_R326_qc_fw/rv	5'-ATCAATTTAACC <b>A</b> ATTAGCTTGCC-3'
pPA192	<i>plcC</i> <sub>JR32</sub> H409N	plcC_H409N_f/r	5'-CTCAGAGAAAACCCTGAAAA <b>A</b> ATGGGTAT-3'