

Supporting Table S1. Strains, plasmids and primers.

<i>L. pneumophila</i> strains			
Name	Genotype	Reference	
Lp01	<i>L. pneumophila</i> serogroup 1, strain Lp01 <i>rpsL</i>	[1]	
CR58	Lp01 <i>rpsL</i> Δ <i>dotA</i>	[2]	
CR503	Δ <i>icmS</i> Δ <i>icmW</i> <i>rpsL</i>	[3]	
SN178	Lp01 <i>rpsL</i> Δ <i>ppeA-ppeB</i> Δ <i>pieE</i> Δ <i>pieA-pieD</i> Δ <i>lpg1975-pieG</i>	This study	
SN179	Lp01 <i>rpsL</i> Δ <i>ppeA-ppeB</i> Δ <i>pieE</i> Δ <i>pieA-pieD</i> Δ <i>lpg1975-pieG</i> <i>ppgA::kan^r</i>	This study	
SN122	Lp01 <i>rpsL</i> <i>pieA::kan^r</i>	This study	
Plasmids			
Name	Important properties	Marker	Reference
pCya	pMMB207 encoding M45-Cya	Cm	[4]
pDsRed-Express	Prokaryotic expression vector encoding DsRed-Express	Amp	Clontech
pEGFP-C1	Eukaryotic expression vector encoding EGFP	Kan	Clontech
pEGFP-C2	Eukaryotic expression vector encoding EGFP	Kan	Clontech
pEGFP-C3	Eukaryotic expression vector encoding EGFP	Kan	Clontech
pEMC22	pMMB207 encoding DsRed-Express	Cm	This study
pET15b	6His-tag expression vector	Amp	Novagen
pMMB207	cloning vector derived from RSF1010	Cm	[5]
pSN20	pCya encoding the Cya-PieC fusion protein	Cm	This study
pSN24	pCya encoding the Cya-PieA fusion protein	Cm	This study
pSN25	pCya encoding the Cya-PieE fusion protein	Cm	This study
pSN27	pCya encoding the Cya-PieD fusion protein	Cm	This study
pSN28	pCya encoding the Cya-PieG fusion protein	Cm	This study
pSN30	pEGFP encoding the GFP-PieC fusion protein	Kan	This study
pSN33	pEGFP encoding the GFP-PieG fusion protein	Kan	This study
pSN35	pEGFP encoding the GFP-PieD fusion protein	Kan	This study
pSN37	pEGFP encoding the GFP-PieE fusion protein	Kan	This study
pSN39	pEGFP encoding the GFP-PieA fusion protein	Kan	This study
pSN45	pSR47 for insertional inactivation of <i>pieA</i>	Kan	This study
pSN53	pSR47s for <i>ppeA-ppeB</i> deletion	Kan	This study
pSN54	pEGFP encoding the GFP-PieA(1-614) fusion protein	Kan	This study
pSN55	pEGFP encoding the GFP-PieA(1-512) fusion protein	Kan	This study
pSN56	pEGFP encoding the GFP-PieA(1-323) fusion protein	Kan	This study
pSN59	pEGFP encoding the GFP-PieA(324-699) fusion protein	Kan	This study
pSN60	pEGFP encoding the GFP-PieA(513-699) fusion protein	Kan	This study
pSN61	pEGFP encoding the GFP-PieA(615-699) fusion protein	Kan	This study
pSN63	pET15b encoding 6His-PieA	Amp	This study
pSN64	pSR47s for <i>lpg1975-pieG</i> deletion	Kan	This study
pSN65	pCya encoding the Cya-PieB fusion protein	Cm	This study
pSN66	pCya encoding the Cya-lpg1968 fusion protein	Cm	This study
pSN67	pCya encoding the Cya-lpg1975 fusion protein	Cm	This study
pSN69	pEGFP encoding the GFP-PieB fusion protein	Kan	This study
pSN69	pSR47 for insertional inactivation of <i>ppgA</i>	Kan	This study
pSN71	pSR47s for <i>pieE</i> deletion	Kan	This study
pSN72	pSR47s for <i>pieA-pieD</i> deletion	Kan	This study
pSN73	pET15b encoding 6His-PieA(513-699)	Amp	This study
pSN81	pCya encoding the Cya-PpeA fusion protein	Cm	This study
pSN82	pCya encoding the Cya-PpeB fusion protein	Cm	This study
pSN83	pCya encoding the Cya-PpgA fusion protein	Cm	This study
pSN87	pCya encoding the Cya-PieF fusion protein	Cm	This study
pSN88	pCya encoding the Cya-lpg1973 fusion protein	Cm	This study
pSR47	Suicide vector	Kan	[6]
pSR47s	Gene replacement vector	Kan	[6]

Primers		
Name	Sequence	Restriction site used
DsRed T1 Fwd	CG GAT CCC AGG AGT GGT AAT AAT GGC CTC CTC CGA GGA CGT C	BamHI
DsRed T1 Rev	GGG AAG CTT CTA CAG GAA CAG GTG GTG GCG G	HindIII
SN34	CGAGATCTTTATGCTGAAATTTTACTCAGA	BglIII
SN35	GCGCTGCAGTTATTTATCTCTGGAGTGA	PstI
SN44	GCGGAATCCGGATCCTTATGATAAAGGACATTCTC	BamHI
SN45	CGCCTCGAGCTGCAGTTAGTTTCTGAAAACCC	PstI
SN46	GCGGAATCCGGATCCTTATGAAAACAGTAAAACAA	BamHI
SN47	CGCCTCGAGCTGCAGTCATAACAAATTGCATGG	PstI
SN48	GCGGAATCCGGATCCTTATGGAGTCTGTATTTTCA	BamHI
SN49	CGCCAATTCTGCAGTTAGTAGCCGTAATTTAC	PstI
SN50	GCGCTCGAGTGGATCCTTATGCAAGAAAAAATTATC	BamHI
SN51	CGCCTCGAGCTGCAGCTAGATATTCGTAATTCC	PstI
SN72	GCGCTGCAGACGGTCAATTAGGCTGTGG	PstI
SN73	CGCGGTACCATTTCATTCCGGTGAATGTT	
SN74	GCGCTGCAGACTAATTTATACAATGCTGT	PstI
SN75	GCGGTACCATAATGCGAGATTTCAATA	KpnI
SN76	CGCTCTAGAAATGGCTTCCAATGACGCG	XbaI
SN77	ACGGCTGGATTTGGCCAAAACATAATCAC	
SN78	TTTTGGCCAAATCCAGCCGTCGGCATTAA	
SN79	CCGCGGCCGCGTTAGTACAACAGGGGATT	NotI
SN91	GCGGGATCCCTAGATATTCGTAATTCC	BamHI
SN99	GCGCATATGCAAGAAAAAATTATC	NdeI
SN129	GCGGCGGCCGCATGCTCCGCAACTGCTAAT	NotI
SN133	GCGGCGGCCGCCTGAACCTGGGCAATTTGTT	NotI
SN134	AACAAATTGCAACCCACGATCTTTGGAATG	
SN135	ATCGTGGGTTGCAATTTGTTATGAGGTTAATTGG	
SN136	GCGGAGCTCACAAACACCATCCATCCCTGT	SacI
SN141	GCGAGATCTTTATGAAAATTTACAGTATAGTTAATC	BglIII
SN142	GCGCTGCAGTTAGGTAAAAGTATAGGATAAATC	PstI
SN143	GCGAGATCTTTATGGGGAAATTTTATATGAGTAAA	BglIII
SN144	GCGCTGCAGTCATATGTTGGTTATCACTTTCA	PstI
SN145	GCGAGATCTTTGTGGTTATAATGAAACCATCT	BglIII
SN146	GCGCTGCAGTTATTTGATGCAATTCAAGATGC	PstI
SN147	GCGCATATGAATTCACCACAGAGAATAG	NdeI
SN148	GCGGGATCCTAGATATTCGTAATTCCTTTTC	BamHI
SN149	ATTCCTTTTCTTGAGAATGTCCTTTATCATTTA	
SN150	ACATTCTCAAGAAAAGGAATTACGAATATCTAG	
SN151	GCGTCTAGATGAAACTCTCGCATAACAATTC	XbaI
SN152	GCGGCGGCCGCCTAATGGAAAGTGTGCTATT	NotI
SN153	TTTACTCTTTCCCTGAAAATACAGACTCCAT	
SN154	ATTTTCAGGGAAAAGAGTAAATTACGGCTACTAA	
SN155	CGCTCTAGATTGTTGATAAAACTGAGCCGCA	XbaI
SN166	CGCGGATCCTTATGATTATGTTTTGGCCAACTGCA	BamHI
SN167	GTGCTGCAGTTACGCTATCTCATTAAGTGT	PstI
SN168	GCCGGATCCTTATGTCACTTGCTACTTATGATG	BamHI
SN169	GTGCTGCAGTTAATGCCGGACGGCTGG	PstI
SN170	GTGGGATCCATGAAAGAACCTCGTGAACCT	BamHI
SN171	GTGCTGCAGTTAGGCGCTTCGTTTGGG	PstI
SN175	GTGGGATCCTTATGAAAAGACTAATTATCTGTAA	BamHI
SN176	GTGCTGCAGTCAAATTTGTTTATTAAGTTATATG	PstI
SN177	CGCGGATCCTTATGACTAACAAAATCTTAAC	BamHI
SN178	GTGCTGCAGTGTGTTTTGTTTTTCTTAAT	PstI

References

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