

Table S1: Strains and plasmids used in this study, related to experimental procedures

Strain or plasmid	Relevant properties	Reference
<i>E. coli</i>		
XL1-Blue	<i>endA1 gyrA96(nal^R) thi-1 recA1 relA1 lac glnV44</i>	Stratagene
BL21(DE3)(pREP4- <i>groESL</i>)	<i>F'[::Tn10 proAB⁺ lacI^q Δ(lacZ)M15] hsdR17(r_K⁻ m_K⁺)</i>	(Amrein <i>et al.</i> , 1995)
NEB 5-alpha (High Efficiency)	<i>F⁻ ompT gal dcm lon hsdS_B(r_B⁻ m_B⁻) λ(DE3 [lacI lacUV5-T7 gene 1 ind1 sam7 nin5])</i> <i>fhuA2Δ(argF-lacZ)U169 phoA glnV44 Φ80 Δ(lacZ)M15</i> <i>gyrA96 recA1 relA1 endA1 thi-1 hsdR17</i>	BioLabs
<i>L. pneumophila</i>		
CIP 108286	Virulent <i>L. pneumophila</i> serogroup 1, strain Lens	(Cazalet <i>et al.</i> , 2004)
Δ <i>dotA</i>	Lens <i>lpl2613::Km</i>	(Ferhat <i>et al.</i> , 2009)
Δ <i>legK2</i>	Lens <i>lpl2066::Km</i>	(Hervet <i>et al.</i> , 2011)
<i>Listeria monocytogenes</i>		
EGDe.PrfA*(BUG 3057)		Institut Pasteur
<i>D. discoideum</i>		
DBS0235534	AX2-214	(Watts <i>et al.</i> , 1970)
<i>Acanthamoeba castellanii</i>		
	Environmental isolate	L. LeClaire
Mammalian cells		
HEK293T		INSERM U1111, Lyon, France
HeLa		INSERM U1111, Lyon, France
HeLa CCL-2		ATCC
<i>S. cerevisiae</i>		
AH109	MATa, <i>trp1-901, leu2-3, 112, ura3-52, his3-200, gal4Δ, gal80Δ, LYS2::GAL1_{UAS}-GAL1_{TATA}-HS3, MEL1 GAL2_{UAS}-GAL2_{TATA}-ADE2, URA3::MEL1_{UAS}-MEL1_{TATA}-lacZ</i>	Clontech
Y187	<i>MATa, ura3-52, his3-200, ade2-101, trp1-901, leu2-3, 112, gal4Δ, met-, gal80Δ, MEL1, URA3::GAL1_{UAS}-GAL1_{TATA}-lacZ</i>	Clontech
Plasmids		
pGEX- <i>legK2</i>	<i>lpl2066</i> inserted in BamHI-Sall of pGEX-6P-3 for GST-LegK2 overproduction	(Hervet <i>et al.</i> , 2011)
pDONR TM 207	Gateway donor vector	Invitrogen
pDONR TM 207- <i>legK1</i>	<i>lpl1545</i> inserted in Gateway donor vector	This work
pDONR TM 207- <i>legK2</i>	<i>lpl2066</i> inserted in Gateway donor vector	This work
pDONR TM 223-ARPC1B	Human ARPC1B inserted in Gateway donor vector	INSERM U1111, Lyon, France
pDONR TM 223-ACTR3	Human ACTR3 inserted in Gateway donor vector	INSERM U1111, Lyon, France
pGBKT7	Gateway yeast expression vector	Clontech
pGBKT7- <i>legK1</i>	<i>lpl1545</i> inserted in Gateway yeast expression vector for	This work

	BD-LegK1 overexpression	
pGBKT7- <i>legK2</i>	<i>lpl2066</i> inserted in Gateway yeast expression vector for BD-LegK2 overexpression	This work
pACT2	Gateway yeast expression vector	Clontech
pACT2-ARPC1B	Human ARPC1B inserted in Gateway yeast expression vector for AD-ARPC1B overexpression	This work
pACT2-ACTR3	Human ACTR3 inserted in Gateway yeast expression vector for AD-ARP3 overexpression	This work
pDEST27	Gateway mammalian expression vector	Invitrogen
pDEST27- <i>legK2</i>	<i>lpl2066</i> inserted in Gateway mammalian expression vector for GST-LegK2 overexpression	This work
pDEST27- <i>legK2</i> _{K112M}	<i>lpl2066</i> _{K112M} inserted in Gateway mammalian expression vector for GST-LegK2 _{K112M} overexpression	This work
pCI-Neo3Flag	Gateway mammalian expression vector	Invitrogen
pCI-Neo3Flag-ARPC1B	Human ARPC1B inserted in Gateway mammalian expression vector for 3Flag-ARPC1B overexpression	This work
pCI-Neo3Flag-ACTR3	Human ACTR3 inserted in Gateway mammalian expression vector for 3Flag-ARP3 overexpression	This work
peGFP	Gateway mammalian expression vector	INSERM U1111, Lyon, France
peGFP- <i>legK2</i>	<i>lpl2066</i> inserted in Gateway mammalian expression vector for GFP-LegK2 overexpression	This work
peGFP- <i>legK2</i> _{K112M}	<i>lpl2066</i> _{K112M} inserted in Gateway mammalian expression vector for GFP-LegK2 _{K112M} overexpression	This work
<i>plegK2</i>	pXDC50 derivative <i>Legionella</i> expression vector carrying <i>mCherry</i> . Expression of <i>lpl2066</i> under its promoter (400 bp)	(Hervet <i>et al.</i> , 2011)
<i>plegK2cat</i>	pXDC50 derivative <i>Legionella</i> expression vector carrying <i>mCherry</i> . Expression of <i>lpl2066</i> _{K112M/D209N} under its promoter (400 bp)	This work
pXDC61- <i>legK2</i>	Encodes for β -lactamase-LegK2 fusion	INSERM U1111, Lyon, France
pMMB207c-HA*4	pXDC61 derivative with <i>blaM</i> gene replaced by 4 HA tags	(Dolezal <i>et al.</i> , 2012)
p4HA- <i>legK2</i>	<i>Lpl2066</i> inserted in pMMB207c-HA*4 to encode HA tagged LegK2	This work