

**Key resources table**

REAGENT or RESOURCE	SOURCE	IDENTIFIER
<b>Antibodies</b>		
Difco Listeria O Antiserum Poly Types 1 & 4	Becton Dickinson	Cat#223021
Alexa Fluor 568 Phalloidin	Thermo Fisher Scientific	Cat#A12380
Anti-ActA polyclonal antibody raised against the mature N terminus of the ActA protein	Michelle Reniere	Reniere <i>et al.</i> (Nature, 2015); Lauer <i>et al.</i> (I&I 2008)
Anti- <i>Listeria</i> spp. P60 mAb (P6017)	Adiogen	Cat#AG-20A-0023
IRDye 680RD Goat anti-Mouse IgG (1:10,000 dilution)	Licor	Cat#926-68070
IRDye 800CW Goat anti-Rabbit IgG (1:10,000 dilution)	Licor	Cat#926-32211
<b>Bacterial and Virus Strains</b>		
rLVUbi-LifeAct-TagRFP: lentiviral vector	Ibidi	Cat#60142
<i>Listeria monocytogenes</i> 10403S wild-type	Provided by Dan Portnoy	JW06
<i>Listeria monocytogenes</i> 10403S $\Delta marR$	Provided by Dan Portnoy; Crimmins <i>et al.</i> , 2008	JW524
<i>Listeria monocytogenes</i> 10403S $\Delta ladR$	Provided by Dan Portnoy; Crimmins <i>et al.</i> , 2008	JW523
<i>Listeria monocytogenes</i> 10403S $\Delta mdrM$	Provided by Dan Portnoy; Crimmins <i>et al.</i> , 2008	JW07
<i>Listeria monocytogenes</i> 10403S $\Delta inlC$	Provided by Dan Portnoy	JW551
<i>Listeria monocytogenes</i> 10403S PrfA*	Provided by Dan Portnoy; Wong and Freitag, 2004	JW130
<i>Listeria monocytogenes</i> 10403S $\Delta actA$	Provided by Dan Portnoy	JW367
<i>Listeria monocytogenes</i> 10403S pPL2: <i>actA</i>	This study	JW618
<i>Listeria monocytogenes</i> 10403S $\Delta actA::actA$	This study	JW620
<i>Listeria monocytogenes</i> pPL2-actA-GFP	Provided by JD Sauer	JW480
<i>Burkholderia thailandensis</i> strain E264 $\Delta motA2$	French <i>et al.</i> , 2011	N/A
<i>Escherichia coli</i> XL1 Blue	N/A	N/A
<i>Bacillus subtilis</i> strain 168	Provided by Houra Merrikh	HM01/JW227
<i>Staphylococcus aureus</i> strain Newman	Provided by Dan Portnoy	N/A
<b>Chemicals, Peptides, and Recombinant Proteins</b>		
DMEM, high glucose, no glutamine, no phenol red	Thermo Fisher Scientific	Cat#31053036
Sodium pyruvate	Thermo Fisher Scientific	Cat#11360070
L-Glutamine	Thermo Fisher Scientific	Cat#25030081
Characterized Fetal Bovine Serum	Thermo Fisher Scientific	Cat#SH30071.03
Penicillin-Streptomycin (10,000 U/mL)	Thermo Fisher Scientific	Cat#15140122
Bovine Serum Albumin (BSA)	Fisher BioReagents	Cat#BP9700100

Trypsin-EDTA (0.05%)	Thermo Fisher Scientific	Cat#25300054
Brain Heart Infusion Broth	Research Products International	Cat#B11000
Tryptic soy broth (TSB)	BD Dianostics	Cat#211825
Gentamicin (10 mg/mL)	Thermo Fisher Scientific	Cat#15710072
Dimethyl sulfoxide	Sigma-Aldrich	Cat#D2650
Celastrol	InvivoGen	Cat#ant-cl5
L-NIL hydrochloride	Cayman Chemical	Cat#80310
DEA NONOate (DEA/NO)	Cayman Chemical	Cat#82100
NOC-12	Sigma-Aldrich	Cat#487955
Pierce 16% formaldehyde	Thermo Fisher Scientific	Cat#28908
Neutral Red solution	Sigma-Aldrich	Cat#N6264
BioCoat Collagen I 22mm round coverslips	Corning	Cat#354089
Prolong Diamond Antifade Mountant	Thermo Fisher Scientific	Cat#P36961
Critical Commercial Assays		
TURBO DNA-free Kit	Thermo Fisher Scientific	Cat#AM1907
iScript cDNA synthesis kit	Bio-Rad	Cat#1708891
Maxima SYBR Green/ROX qPCR Master Mix	Thermo Fisher Scientific	Cat#K0221
RNAqueous Total RNA Isolation Kit	Thermo Fisher Scientific	Cat#AM1912
TaqMan pre-designed assay: murine <i>Nos2</i>	Thermo Fisher Scientific	Mm00440502_m1
TaqMan pre-designed assay: murine <i>Hprt</i>	Thermo Fisher Scientific	Mm03024075_m1
Experimental Models: Cell Lines		
TIB73	ATCC	ATCC Cat# BNL CL.2 TIB-73; RRID:CVCL_4383
TIB73 mutant <i>Akr1c13</i>	McFarland et al., 2017	N/A
TIB73 mutant <i>Akr1c13</i> with MSCV- <i>Akr1c13</i> -WT	McFarland et al., 2017	N/A
TIB73 mutant <i>Akr1c13</i> with MSCV- <i>Akr1c13</i> -H117A	McFarland et al., 2017	N/A
Huh7	Provided by Ram Savan; McFarland et al., 2014; Jarret et al., 2016	RRID:CVCL_0336
Caco-2	Provided by Ram Savan; Lim et al., 2016	RRID:CVCL_0025
Oligonucleotides		
<i>Lm</i> 16S forward primer: CAAGCGTTGTCCGGATTTATTG	This paper	N/A
<i>Lm</i> 16S reverse primer: GCACTCCAGTCTTCCAGTTT	This paper	N/A
<i>Lm</i> <i>actA</i> forward primer: ACGGGACCAAGATACGAA	This paper	N/A
<i>Lm</i> <i>actA</i> reverse primer: GCATGCTAGAATCTAAGTCAC	This paper	N/A
<i>Lm</i> <i>hly</i> forward primer: CGCGGATGAATTCGATAG	This paper	N/A
<i>Lm</i> <i>hly</i> reverse primer: GTCATACCCGGGAAATCAATG	This paper	N/A
<i>Lm</i> <i>inlC</i> forward primer: AATTCCACAGGACACAACC	This paper	N/A
<i>Lm</i> <i>inlC</i> reverse primer: CGGGAATGCAATTTTTCACTA	This paper	N/A
<i>Lm</i> <i>plcA</i> forward primer: TTCGGGGAATTCATGATTAG	This paper	N/A
<i>Lm</i> <i>plcA</i> reverse primer: CACTACTCCCGGGACTGAG	This paper	N/A
<i>Lm</i> <i>plcB</i> forward primer: CCAGTAGGATCCACTGTATC	This paper	N/A

<i>Lm plcB</i> reverse primer: CTTATTTCCCGGGTTTTGCTAATG	This paper	N/A
<i>Lm prfA</i> forward primer: CAGCTGAGCTATGTGCGAT	This paper	N/A
<i>Lm prfA</i> reverse primer: ACCAATGGGATCCACAAG	This paper	N/A
<b>Software and Algorithms</b>		
ImageJ	ImageJ Software	<a href="https://imagej.nih.gov/ij/">https://imagej.nih.gov/ij/</a>
BZ-X700 series microscope analysis application	Keyence	BZ-H3AE
GraphPad Prism 6	GraphPad Software	<a href="http://www.graphpad.com/scientificsoftware/prism/">http://www.graphpad.com/scientificsoftware/prism/</a>
Metamorph	Molecular Devices	<a href="https://www.moleculardevices.com/systems/metamorph-research-imaging">https://www.moleculardevices.com/systems/metamorph-research-imaging</a>
Leica Application Suite, V4	Leica Microsystems	<a href="https://www.leica-microsystems.com/products/microscope-software/">https://www.leica-microsystems.com/products/microscope-software/</a>