**Supplementary File 1.**

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| **Plasmid ID** | **Plasmids** | **Genotype** | **Purpose** | **Reference or source** |
| NA | pUC18 | Cloning vector, Ampr | Cloning | TaKaRa |
| pNH2802 #2 | pUC18-*sdeA* | Cloning vector encoding SdeA, Ampr | Cloning | This study |
| pNH2804 #2 | pUC18-*sdeA*EE/AA | Cloning vector encoding SdeA catalytic E860A E862A mutant, Ampr | Cloning | This study |
| NA | pHA-Ub | pHA encoding Ub, Ampr | Transfection | Gift from Michinaga Ogawa |
| pNH2175 #2 | pHA-UbAA | pHA encoding Ub G75A G76A mutant, Ampr | Transfection | This study |
| pNH2156 #1 | pHA-UbQ40E | pHA encoding Ub Q40E mutant, Ampr | Transfection | This study |
| pNH2276 #1 | pHA-UbQ31E | pHA encoding Ub Q31E mutant, Ampr | Transfection | This study |
| pNH2277 #1 | pHA-UbQ41E | pHA encoding Ub Q41E mutant, Ampr | Transfection | This study |
| pNH2288 #1 | pHA-UbQ31E Q41E | pHA encoding Ub Q31E Q41E mutant, Ampr | Transfection | This study |
| NA | p3xHA-Ub | p3xHA encoding Ub, Ampr | Transfection | Gift from Jiazhang Qiu |
| NA | p3xHA-UbAA | p3xHA encoding Ub G75A G76A mutant, Ampr | Transfection | Gift from Jiazhang Qiu |
| NA | pHA-UbK6 | pHA encoding Ub with Lys6 (without any other Lys residues), Ampr | Cloning | Addgene #22900 |
| pNH2177 #1 | pHA-UbNo K | pRK5-HA encoding Ub with no Lys residues, Ampr | Transfection | This study |
| NA | pEGFP-C2 | GFP-tagged protein expression vector, Kanr | Transfection | BD |
| NA | pmGFP | pEGFP-C2 encoding monomeric GFP (GFP with L222K mutation), Kanr | Transfection | (Kitao et al., 2020) |
| pNH2123 #1 | pmGFP*-mavC* | pmGFP encoding MavC, Kanr | Transfection | This study |
| pNH2140 #1 | pmGFP*-mavC*C74A | pmGFP encoding MavC C74A mutant, Kanr | Transfection | This study |
| NA | pET15b | hexahistidine-tagged protein expression vector, Ampr | Protein purification | Novagen |
| pNH1989 #9 | pET15b-His-*sdeA* | pET15b encoding hexahistidine-tagged SdeA, Ampr | Cloning | This study |
| NA | pET15b-His-*sdeA*ΔDUB | pET15b encoding hexahistidine-tagged SdeA Δ1-199aa , Ampr | Cloning | This study |
| pNH2000 #6 | pmGFP*-sdeA* | pmGFP encoding SdeA, Kanr | Cloning | This study |
| NA | pmGFP*-sdeA*ΔDUB | pmGFP encoding SdeA Δ1-199aa , Kanr | Transfection | This study |
| NA | P3xFLAG-cDNA4T/O- | 3xFLAG-tagged protein expression vector, Ampr | Transfection | (Ingmundson et al., 2007) |
| NA | p3xFLAG-Rab10 | p3xFLAG encoding human Rab10A, Ampr | Transfection | This study |
| pNH2515 #1 | p3xFLAG-Rab10QL | p3xFLAG encoding human Rab10A Q68L, Ampr | Transfection | This study |
| pNH2516 #1 | p3xFLAG-Rab10TN | p3xFLAG encoding human Rab10A T23N, Ampr | Transfection | This study |
| pNH2518 #2 | p3xFLAG-Rab10KKK | p3xFLAG encoding human Rab10A K102A K136A K154A, Ampr | Transfection | This study |
| NA | p3xFLAG-CMV-10 | 3xFLAG-tagged protein expression vector, Ampr | Transfection | Sigma |
| pNH1807 #1 | p3xFLAG-*sidC* | p3xFLAG encoding SidC, Ampr | Transfection | This study |
| pNH1808 #26 | p3xFLAG- *sidC*C46A | p3xFLAG encoding SidC C46A mutant, Ampr | Transfection | This study |
| pNH2172 #1 | p3xFLAG-*sdcA* | p3xFLAG encoding SdcA, Ampr | Transfection | This study |
| pNH2173 #2 | p3xFLAG- *sdcA*C44A | p3xFLAG encoding SdcA C44A mutant, Ampr | Transfection | This study |
| pNH2109 #4 | p3xFLAG-*sdcB* | p3xFLAG encoding SdcB mutant, Ampr | Transfection | This study |
| pNH2126 #6 | p3xFLAG- *sdcB*C57A | p3xFLAG encoding SdcB C57A mutant, Ampr | Transfection | This study |
| pNH2286 #1 | p3xFLAG- *sdcB*K518R | p3xFLAG encoding SdcB K518R mutant, Ampr | Transfection | This study |
| pNH2287 #1 | p3xFLAG- *sdcB*K891R | p3xFLAG encoding SdcB K891R mutant, Ampr | Transfection | This study |
| pNH2289 #3 | p3xFLAG- *sdcB*K518R K891R | p3xFLAG encoding SdcB K518R K891R mutant, Ampr | Transfection | This study |
| NA | pCMV-HA-N | N-terminal HA-tagged protein expression vector, Ampr | Transfection | Clontech |
| pNH2272 # | pHA-*mavC* | pHA encoding MavC, Ampr | Transfection | This study |
| pNH2273 #1 | pHA-*mavC*C74A | pHA encoding MavC C74A mutant, Ampr | Transfection | This study |
| NA | pmRFP-C1 | N-terminal RFP-tagged protein expression vector, Kanr | Transfection | (Murata et al., 2006) |
| NA | pmRFP-Rab10 | pRFP encoding Rab10, Kanr | Transfection | This study |
| pNH1804 #1 | pET15b-His-*sidC* | pET15b encoding hexahistidine-tagged SidC, Ampr | Protein purification | This study |
| pNH2120 #6 | pET15b-His-*sdcB* | pET15b encoding hexahistidine-tagged SdcB, Ampr | Protein purification | This study |
| pNH2121 #9 | pET15b-His-*sdcB*C57A | pET15b encoding hexahistidine-tagged SdcB C57A mutant, Ampr | Protein purification | This study |
| pNH2142 #1 | pET15b-His-*mavC* | pET15b encoding hexahistidine-tagged MavC, Ampr | Protein purification | This study |
| pNH2143 #5 | pET15b-His-*mavC*C74A | pET15b encoding hexahistidine-tagged MavC C74A mutant, Ampr | Protein purification | This study |
| pNH2144 #3 | pET15b-His-*mvcA* | pET15b encoding hexahistidine-tagged MvcA, Ampr | Protein purification | This study |
| NA | pSR47S | oriR6K, *oriT* RP4, *Kanr*, *sacB* | Gene deletion | (Merriam et al., 1997) |
| pNH1990 #1 | pSR47S-Δ*sidE* | pSR47S carrying 30bp upstream and downstream regions of *sidE,* Kanr | Gene deletion | This study |
| pNH1993 #1 | pSR47S-Δ*sdeA*Δ*sdeB* | pSR47S carrying 300bp upstream and downstream regions of *sdeA-sdeB,* Kanr | Gene deletion | This study |
| pNH1994 #2 | pSR47S-Δ*sdeC* | pSR47S carrying 300bp upstream and downstream regions of *sdeC,* Kanr | Gene deletion | This study |
| pNH2213 #1 | pSR47S-Δ*dupA* | pSR47S carrying 300bp upstream and downstream regions of *dupA,* Kanr | Gene deletion | This study |
| pNH2196 #1 | pSR47S-Δ*dupB* | pSR47S carrying 300bp upstream and downstream regions of *dupB,* Kanr | Gene deletion | This study |
| pNH2214 #1 | pSR47S-Δ*dupA*Δ*sidJ* | pSR47S carrying 300bp upstream and downstream regions of *dupA-sidJ,* Kanr | Gene deletion | This study |
| pNH2197 #1 | pSR47S-Δ*dupB*Δ*sdjA* | pSR47S carrying 300bp upstream and downstream regions of *dupB-sdj,* Kanr *A* | Gene deletion | This study |
| pNH1803 #1 | pSR47S-Δ*sidC*Δ*sdcA* | pSR47S carrying 300bp upstream and downstream regions of *sidC-sdcA,* Kanr | Gene deletion | This study |
| pNH2111 #2 | pSR47S-Δ*sdcB* | pSR47S carrying 300bp upstream and downstream regions of *sdc,* Kanr *B* | Gene deletion | This study |
| pNH2139 #1 | pSR47S-Δ*lpg2149* | pSR47S carrying 300bp upstream and downstream regions of *sdcB*, Kanr | Gene deletion | This study |
| pNH2136 #3 | pSR47S-Δ*mavC*Δ*mvcA* | pSR47S carrying 300bp upstream and downstream regions of *mavC-mvcA,* Kanr | Gene deletion | This study |
| NA | pMMB207NT | Cloning vector with P*icmR* derived from RSF1010 (*oriR*), Cmr | Expression vector for *Legionella* | (Coers et al., 2000) |
| pNH1884 #10 | pMMB207NT-3xFLAG | pMMB207NT to express 3xFLAG-tagged protein, Cmr | Expression vector for *Legionella* | (Kubori et al., 2018) |
| pNH2117 #1 | pMMB207-3xFLAG-*sdcB* | pMMB207NT encoding 3xFLAG-tagged SdcB, Cmr | Expression in *Legionella* | This study |
| pNH2118 #3 | pMMB207-3xFLAG-*sdcBC57A* | pMMB207NT encoding 3xFLAG-tagged SdcB C57A mutant, Cmr | Expression in *Legionella* | This study |
| NA | pMMB207NT-3xMyc | pMMB207NT to express 3xMyc-tagged protein, Cmr | Expression vector for *Legionella* | (Kubori et al., 2022) |
| NA | pMMB207NT-3xMyc-*sdeA* | pMMB207NT to express 3xMyc-tagged SdeA, Cmr | Expression in *Legionella* | This study |
| NA | pMMB207NT-3xMyc-*sdeAEE/AA* | pMMB207NT to express 3xMyc-tagged SdeA E860A E862A mutant, Cmr | Expression in *Legionella* | This study |
| pNH2236 #3 | pMMB207NT-3xMyc- *sdcB* | pMMB207NT to express 3xMyc-tagged SdcB, Cmr | Expression in *Legionella* | This study |
| pNH2237 #1 | pMMB207NT-3xMyc- *sdcBC57A* | pMMB207NT to express 3xMyc-tagged SdcB C57A mutant, Cmr | Expression in *Legionella* | This study |
| pNH2511 #14 | pMMB207NT-3xMyc- *sdcBK518R K891R* | pMMB207NT to express 3xMyc-tagged SdcB K518R K891R mutant, Cmr | Expression in *Legionella* | This study |

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