**Supplemental Table S7: Bacterial strains and plasmids used in this manuscript**

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| **Strain** | **Description** | **Strain Bank ID** | **Source** |
| Philadelphia-1 | Philadelphia clinical isolate from 1976 outbreak: ATCC33152 |  | American Type Culture Collection |
| KS79 | JR32 ∆comR |  | (De Felipe et al., 2008) |
| HA-1.(5, 10, etc.) | Populations of heat-adapted *L. pneumophila* from the **first** replicate lineage sampled at five-passage intervals |  | This study |
| HA-2.(5, 10, etc.) | Populations of heat-adapted *L. pneumophila* from the **second** replicate lineage sampled at five-passage intervals |  | This study |
| HA-3.(5, 10, etc.) | Populations of heat-adapted *L. pneumophila* from the **third** replicate lineage sampled at five-passage intervals |  | This study |
| TRA-1.1 | KS79 *dnaK*::*dnaK*M94I - CHLpMMB207c | SPF714 | (Liang et al., 2023) |
| TRA-1.2 | KS79 *dnaK*::*dnaK*M94I - CHLpMMB207c, *dnaJ*::*dnaJ*F95Y - GENpBBR1-MCS2 | SPF697 | This study |
| TRA-1.3 | KS79 *dnaK*::*dnaK*M94I - CHLpMMB207c, *dnaJ*::*dnaJ*F95Y - GENpBBR1-MCS2, *clpX*::*clpX*G202A - KANpSF6 | SPF699 | This study |
| TRA-2.1 | KS79 *phaP*::*phaP*Δ1bp - KANpSF6 | SPF605 | This study |
| TRA-2.2 | KS79 *phaP*::*phaP*Δ1bp - KANpSF6, *mreC*::*mreC*V266A - GENpBBR1-MCS2 | SPF686 | This study |
| TRA-2.3 | KS79 *phaP*::*phaP*Δ1bp - KANpSF6, *mreC*::*mreC*V266A - GENpBBR1-MCS2, *rodA*::*rodA*R112S - CHLpMMB207c | SPF713 | This study |
| TRA-3.1 | KS79 *dnaK*::*dnaK*V373L, M94I - CHLpMMB207c | SPF715 | (Liang et al., 2023) |
| TRA-3.2 | KS79 *dnaK*::*dnaK*V373L, M94I - CHLpMMB207c, *dnaJ*::*dnaJ*F95Y - GENpBBR1-MCS2 | SPF696 | This study |
| TRA-3.3 | KS79 *dnaK*::*dnaK*V373L, M94I - CHLpMMB207c, *dnaJ*::*dnaJ*F95Y - GENpBBR1-MCS2, *clpX*::*clpX*E203D - KANpMMB207c | SPF703 | This study |
| TRA-4.1 | KS79 *clpB*::*clpB*A478V - CHLpMMB207c | SPF707 | This study |
| TRA-4.2 | KS79 *dnaJ*::*dnaJ*P334S - GENpBBR1-MCS2 | SPF609 | This study |
| TRA-4.3 | KS79 *htpG*::*htpG*G83E - KANpSF6 | SPF607 | This study |
| TRA-4.4 | KS79 *clpB*::*clpB*A478V - CHLpMMB207c, *dnaJ*::*dnaJ*P334S - GENpBBR1-MCS2 | SPF708 | This study |
| TRA-4.5 | KS79 *clpB*::*clpB*A478V - CHLpMMB207c, *htpG*::*htpG*G83E - KANpSF6 | SPF718 | This study |
| TRA-4.6 | KS79 *dnaJ*::*dnaJ*P334S - GENpBBR1-MCS2, *htpG*::*htpG*G83E - KANpSF6 | SPF692 | This study |
| TRA-4.7 | KS79 *clpB*::*clpB*A478V - CHLpMMB207c, *dnaJ*::*dnaJ*P334S - GENpBBR1-MCS2, *htpG*::*htpG*G83E - KANpSF6 | SPF709 | This study |
| PJ | KS79 *phaP*::*phaP*Δ1bp - KANpSF6, *dnaJ*::*dnaJ*F95Y - GENpBBR1-MCS2 | SPF732 | This study |
| PK1 | KS79 *phaP*::*phaP*Δ1bp - KANpSF6, *dnaK*::*dnaK*M94I - CHLpMMB207c | SPF730 | This study |
| PK1J | KS79 *phaP*::*phaP*Δ1bp - KANpSF6, *dnaJ*::*dnaJ*F95Y - GENpBBR1-MCS2, *dnaK*::*dnaK*M94I - CHLpMMB207c | SPF734 | This study |
| PK2 | KS79 *phaP*::*phaP*Δ1bp - KANpSF6, *dnaK*::*dnaK*V373L, M94I - CHLpMMB207c | SPF738 | This study |
| PK2J | KS79 *phaP*::*phaP*Δ1bp - KANpSF6, *dnaJ*::*dnaJ*F95Y - GENpBBR1-MCS2, *dnaK*::*dnaK*V373L, M94I - CHLpMMB207c | SPF739 | This study |
| **Plasmid** | **Description** |  | **Source** |
| pMMB207c | RSF1010 derivative, IncQ, lacIq, CHLr, Ptac, oriT, ∆mobA |  | (Chen et al., 2004) |
| pSF6 | pGEMT-easy-rrnb, KANr |  | (Faucher et al., 2011) |
| pBBR1-MCS2 | GENr |  | (Kovach et al., 1995) |