

Table S1 Strains Used in This Study

| NAME | GENOTYPE | SOURCE |
|--------|---|-------------------------------|
| C61 | <i>yA1 nicB8 pyroA4 niiA4 riboB2 veA1</i> | (Dowzer and Kelly 1991) |
| CDS36 | <i>sonB1 nimA1 pyrG89 wA veA1</i> | (De Souza <i>et al.</i> 2003) |
| CDS364 | <i>sonB1 pyroA4 wA3 veA1</i> | (De Souza <i>et al.</i> 2006) |
| CDS509 | <i>sonA1 pyroA4 wA3 yA2¹ veA1</i> | This study |
| JLA1 | <i>nimA1 pyrG89 wA2/wA3¹ yA2¹ veA1</i> | This study |
| JLA73 | <i>nimA1 mutant D pyrG89 wA2/wA3[?] yA2¹ veA1</i> | This study |
| JLA75 | <i>nimA1 mutant F pyrG89 wA2/wA3¹ yA2¹ veA1</i> | This study |
| JLA77 | <i>nimA1 mutant C (sonC1) pyrG89 wA2/wA3¹ yA2¹ veA1</i> | This study |
| JLA78 | <i>nimA1 mutant E pyrG89 wA2/wA3¹ yA2¹ veA1</i> | This study |
| JLA184 | <i>nimA1 mutant 89 pyrG89 wA2/wA3[?] yA2¹ veA1</i> | This study |
| JLA185 | <i>nimA1 sonA2 pyrG89 wA2/wA3¹ yA2¹ veA1</i> | This study |
| JLA227 | <i>sonA2 riboB2 pyroA4 yA2 wA2/wA3¹ veA1</i> | This study |
| JLA255 | <i>nimA1 sonA3 pyrG89 wA2/wA3¹ yA2¹ veA1</i> | This study |
| JLA263 | <i>mag1-GFP::pyrG^{Af} pyrG89 nkuAΔ::argB argB2 pyroA4 SE15</i> <i>nirA14 chaA1 wA3 fwA1 veA1</i> | This study |
| JLA264 | <i>mag1Δ::pyrG^{Af} pyrG89 argB2 nirA14¹ wA3 chaA1¹ fwA1¹ yA2¹</i> <i>veA1</i> | This study |
| JLA265 | <i>sonC-GFP::pyrG^{Af} pyrG89 argB2 wA3 nirA14¹ yA2¹ chaA1¹</i> <i>fwA1¹ veA1</i> | This study |
| JLA268 | <i>sonA3 wA3 yA2¹ veA1</i> | This study |
| JLA319 | <i>sonC-GFP::pyrG^{Af} H1-mCherry::pyro^{Af} pyroA4¹ pyrG89 argB2</i> <i>wA3 yA2¹ chaA1¹ fwA1¹ veA1</i> | This study |
| JLA324 | <i>sonC-GFP::pyrG^{Af} bop1-mCherry::pyrG^{Af} pyrG89 argB2</i> <i>nirA14¹ wA3 yA2¹ chaA1¹ fwA1¹ veA1</i> | This study |
| JLA325 | <i>sonC-GFP::pyrG^{Af} pol I-mCherry::pyrG^{Af} pyrG89 argB2 nirA14¹</i> <i>wA3 yA2¹ chaA1¹ fwA1¹ veA1</i> | This study |
| KF018 | <i>nimA-GFP::pyrG^{Af} H1-mCherry::pyro^{Af} nirA14¹</i> <i>sE15¹ wA3 veA1</i> | This study |

| | | |
|-------|--|---------------------------|
| KF110 | <i>nimA-GFP::pyrG^{AF} nup170-mCherry::pyroA^{AF} ΔnKuA::argB argB2 wA3 veA1</i> | This study |
| KF120 | <i>nimA-GFP::pyrG^{AF} pyrG89 fib-mCherry::pyrG^{AF} wA3 veA1</i> | This study |
| KF122 | <i>nimA-GFP::pyrG^{AF} pyrG89 topo1-mCherry::pyrG^{AF} pyroA4 argB2 wA3 veA1</i> | This study |
| LPW29 | <i>nimA1 sonA1 riboA1/riboB2¹ pyrG89 wA2 veA1</i> | (Wu <i>et al.</i> 1998) |
| LU178 | <i>cgrA-GFP::pyrG^{AF} H1-mCherry::pyrG^{AF} pyrG89 argB2 wA3 nirA14¹ fwaA1¹ chaA1¹ veA1</i> | (Ukil <i>et al.</i> 2009) |
| LU193 | <i>bop1-GFP::pyrG^{AF} H1-mCherry::pyrG^{AF} pyrG89 argB2 wA3 SE15 pabaA1 pyroA4 nirA14¹ fwaA1¹ chaA1¹ veA1</i> | (Ukil <i>et al.</i> 2009) |
| R153 | <i>pyroA4 wA3 veA1</i> | C. F. Roberts |
| SO369 | <i>sonA1 pyrG89 wA2 nicA2 veA1</i> | This study |

¹ In some strains we have not confirmed some markers that could be covered by or are recessive to other markers in the strain.