

Table S1 Genotypes of strains used in the study.

Name	Genotype (all strains carry <i>veA1</i>)	Source
R153	<i>wA3;pyroA4</i>	Lab stock
MG71	<i>nimA7; pyrG^{AF}insertion (pyrG89); ΔKu70::argB (argB2); riboA1; pyroA4; nicB8/A2?; wA3</i>	This study
MG41	<i>ΔAn-swd1::pyrG^{AF} (pyrG89); ΔKu70::argB(argB/B2); pyroA4; nirA14; sE15, wA3; fwA1; chA1</i>	This study
MG65	<i>nimA7; ΔAn-swd1::pyrG^{AF} (pyrG89); ΔKu70::argB (argB2); riboA1; pyroA4; nicB8/A2?; wA3</i>	This study
MG99	<i>nimT23; ΔKu70::argB (argB2); pyrG89; pyroA4; pabaA1; sE15; wA3</i>	This study
MG104	<i>nimT23; ΔAn-swd1::pyrG^{AF}(pyrG89); ΔKu70::argB (argB2); pyroA4; pabaA1; sE15; wA3</i>	This study
MG177	<i>ΔAn-set1::pyrG^{AF} (pyrG89); ΔKu70::argB(argB/B2); pyroA4; nirA14; sE15, wA3; fwA1; chA1</i>	This study
MG179	<i>ΔAn-set1::pyrG^{AF} (pyrG89); nimA7; ΔKu70::argB (argB2); riboA1; pyroA4; nicB8/A2?; wA3</i>	This study
MG181	<i>ΔAn-set1::pyrG^{AF}(pyrG89); nimT23; ΔKu70::argB (argB2); pyroA4; pabaA1; sE15; wA3</i>	This study
MG316	<i>H3K4R::pyrG^{AF} (pyroG89); ΔKu70::argB(argB/B2); pyroA4; nirA14; sE15, wA3; fwA1; chA1</i>	This study
MG318	<i>H3K4R::pyrG^{AF} (pyrG89); nimA7; ΔKu70::argB (argB2); riboA1; pyroA4; nicB8/A2?; wA3</i>	This study
MG267	<i>H3K4R::pyrG^{AF}(pyrG89); nimT23; ΔKu70::argB (argB2); pyroA4; pabaA1; sE15; wA3</i>	This study
MG327	<i>H3S10A::pyrG^{AF} (pyrG89); ΔKu70::argB(argB/B2); pyroA4; nirA14; sE15, wA3; fwA1; chA1</i>	This study
MG320	<i>H3K4R+S10A::pyrG^{AF} (pyroG89); ΔKu70::argB(argB/B2); pyroA4; nirA14; sE15, wA3; fwA1; chA1</i>	This study
HA365	<i>GFP-tub; An-H1-chRFP::pyroA^{AF}; pyrG89; (pyroA4; argB2?); ΔKuA::argB</i>	Lab stock [1,2]
HA375	<i>nimT23; GFP-tub; An-H1-chRFP::pyroA^{AF}; pyrG89; (pyroA4; argB2?); ΔKuA::argB</i>	Lab stock [1,2]
MG160	<i>ΔAn-swd1::pyrG^{AF} (pyrG89); ΔKu70::argB (argB2/argB?); H1chRFP::pyroA^{AF}(pyroA4); GFP-tub; wA3</i>	This study
MG161	<i>nimT23; ΔAn-swd1::pyrGAF (pyrG89); ΔKu70::argB (argB2/argB?);tubAGFP; H1chRFP::pyroA^{AF} (pyroA4)</i>	This study
MG300	<i>pyrG89; H1-chRFP::pyro^{AF} (pyroA4); GFP-tub; argB2; nirA14?; nicB8/A2?</i>	This study
MG304	<i>nimT23; pyrG89; GFP-tub; H1-chRFP::pyro^{AF} (pyroA4); argB2; sE15?; yA2/3</i>	This study
MG276	<i>ΔAn-swd1::pyrG^{AF} (pyrG89);H1-chRFP::pyro^{AF} (pyroA4); GFP-tub; argB2; nirA14?; nicB8/A2?; wA3</i>	This study
MG302	<i>nimT23; ΔAn-swd1::pyrG^{AF} (pyrG89); GFP-tub; H1-chRFP::pyro^{AF} (pyroA4); argB2; sE15?; fw/wA3</i>	This study
MG153	<i>nimA7; pyrG89; ΔKu70::argB? (argB2/argB?); H1chRFP::pyroAAF(pyroA4); GFP-tub; nicB8/A2?</i>	This study
MG159	<i>ΔAn-swd1::pyrG^{AF} (pyrG89); nimA7; ΔKu70::argB (argB2/argB?); H1chRFP::pyroAAF (pyroA4); GFP-tub; nicB8/A2?; wA3</i>	This study
MG224	<i>argB2; sE15; GFP-tub; AN162-CR; pyrG89; pyroA4; wA2/3; nicB8/A2?; nirA14?</i>	This study
MG227	<i>argB2; sE15; nimA7; pyrG89; pyroA4; GFP-tub; AN162-CR; nicB8/A2?; nirA14?; wA2/3</i>	This study
MG190	<i>nimA7; pyrG89; argB2; ndc80-CR::pyroA^{AF} (pyroA4?); GFP-tub; chaA1; GCP3-GFP::riboB^{AF}; nicB8/A2?</i>	This study
MG229	<i>nimA7; argB2; pyrG89; ΔyA::NLS-DsRed; GFP-tub; pyroA4; nicB8/A2?</i>	This study
MG244	<i>argB2; ΔAn-swd1::pyrG^{AF} (pyrG89); ΔyA::NLSDsRed; GFP-tub; nicB8/A2?; pyroA4; wA3</i>	This study
MG243	<i>Δswd1-pyrG^{AF}(pyrG89); nimA7; GFP-tub; ΔyA::NLS-DsRed; argB2; wA3; pyroA4; nicB8/A2?</i>	This study
MG213	<i>nimA7; Δswd1-pyrG^{AF}(pyrG89); argB2; nup49-CR::pyroA^{AF}(pyroA4); GFP-tub; nirA14?; nicB8/A2?; wA3</i>	This study
CDS790	<i>nimA7; argB2; wA3</i>	[3]
MG215	<i>nimA7; Δswd1-pyrG^{AF}(pyrG89); argB2; nicB8/A2?; wA3</i>	This study
CDS629	<i>ΔAn-mad2::pyrG^{AF}; pyroA4; pyrG89; chaA1</i>	[4]
MG383	<i>ΔAn-swd1::pyrG^{AF}(pyrG89); ΔAn-mad2::pyrG^{AF}(pyrG89); pyroA4; nirA14?; nicB8/A2?; chaA1</i>	This study
MG381	<i>nimA7; ΔAn-mad2::pyrG^{AF}(pyrG89); pyroA4; nirA14?; nicB8/A2?; chaA1</i>	This study
MG405	<i>nimT23; ΔAn-mad2::pyrG^{AF}(pyrG89); pyroA4; argB2; sE15?; wA/chaA/fw</i>	This study
MG384	<i>nimA7; ΔAn-swd1::pyroG^{AF} (pyrG89); Δmad2::pyrG^{AF} (pyrG89);pyroA4; nirA14?; nicB8/A2?; wA/chaA1</i>	This study
MG219	<i>nimT23; Δswd1-pyrG^{AF}(pyrG89); argB2; pabaA1; pyroA4; sE15?; wA/yA</i>	This study
SOS3	<i>nimT23; wA2</i>	[5]
MG402	<i>nimT23; ΔAn-swd1::pyrG^{AF} (pyrG89); Δmad2::pyrG^{AF} (pyrG89); pyroA4; argB2; sE15?; wA/chaA/fw</i>	This study
MG218	<i>Δswd1-pyrG^{AF}(pyrG89); riboA1; argB2; nicB8/A2?; wA3</i>	This study
MG151	<i>pyrG^{AF} insertion (pyrG89); nimT23; ΔKu70::argB (argB2); pyroA4; pabaA1; sE15; wA3.</i>	This study
MG411	<i>ΔAn-swd1::pyroA^{AF} (pyroA4); H3K4R::pyrG^{AF} (pyrG89); sE15; nirA14; wA3; fwA1; chA1.</i>	This study

Question marks indicate mutations or alleles that may be present in the strain and have not been tested for.