

Supplementary materials

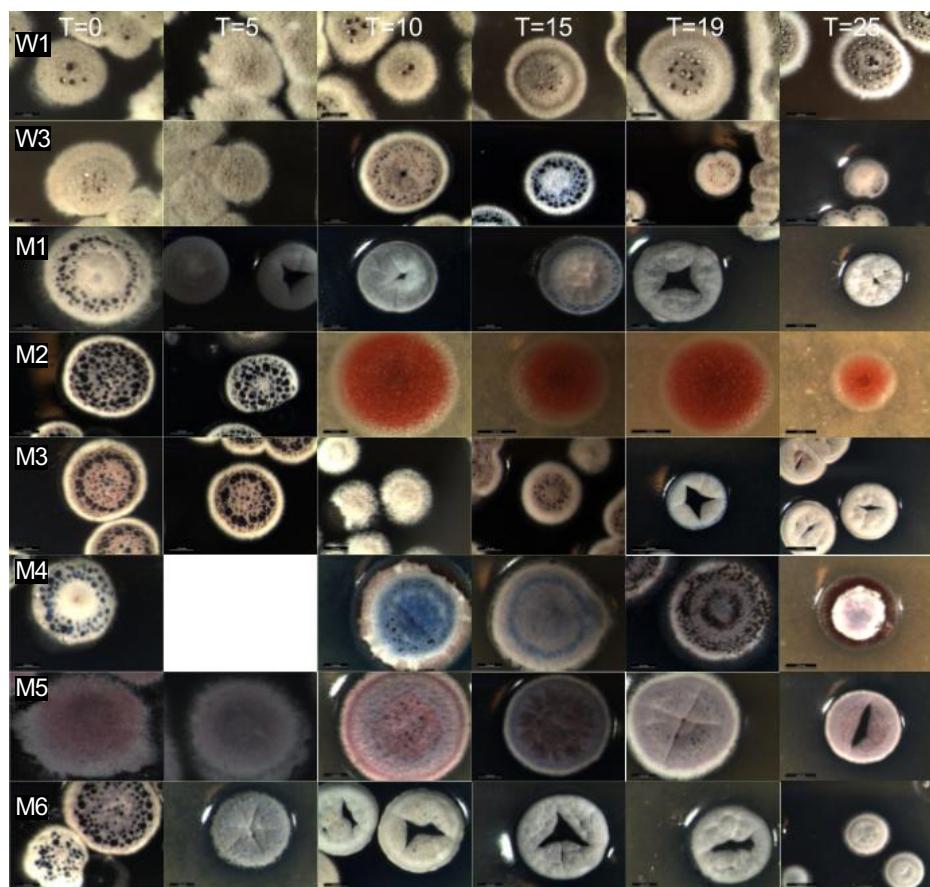


Fig. S1. Morphology of sampled strains. Morphogenesis, including aerial growth, sporulation and pigmentation, varies among and within lineages.

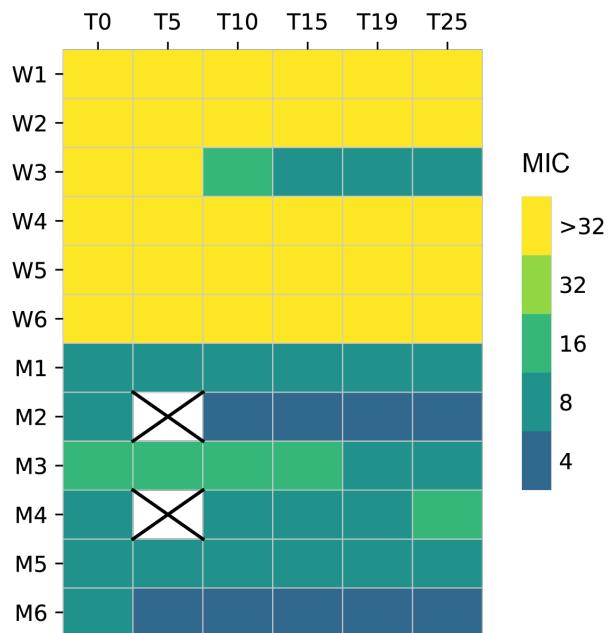
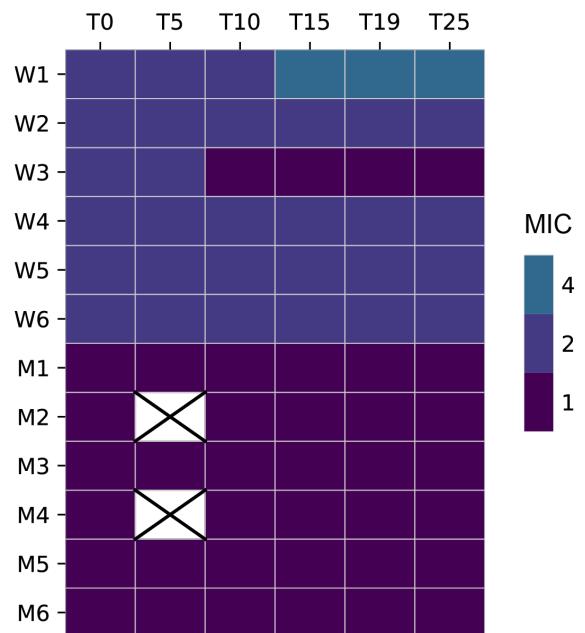
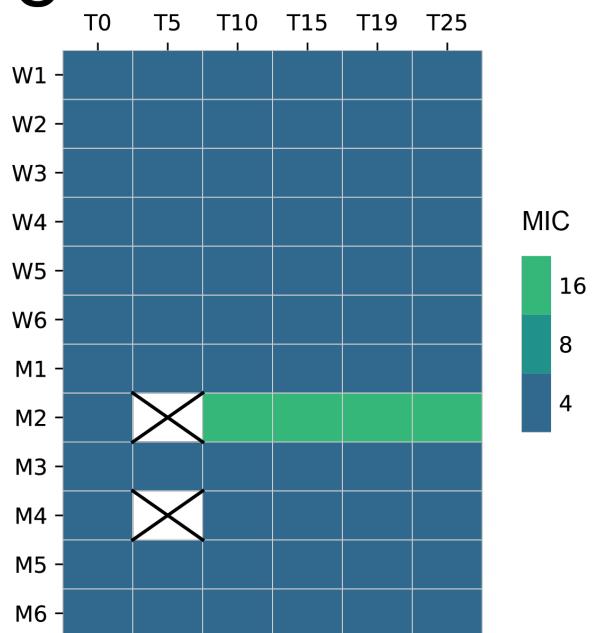
A**B****C**

Fig. S2. Antibiotic resistance of sampled strains. MIC of (A) oxytetracycline (B) streptomycin or (C) ciprofloxacin. Unit is shown as $\mu\text{g ml}^{-1}$.

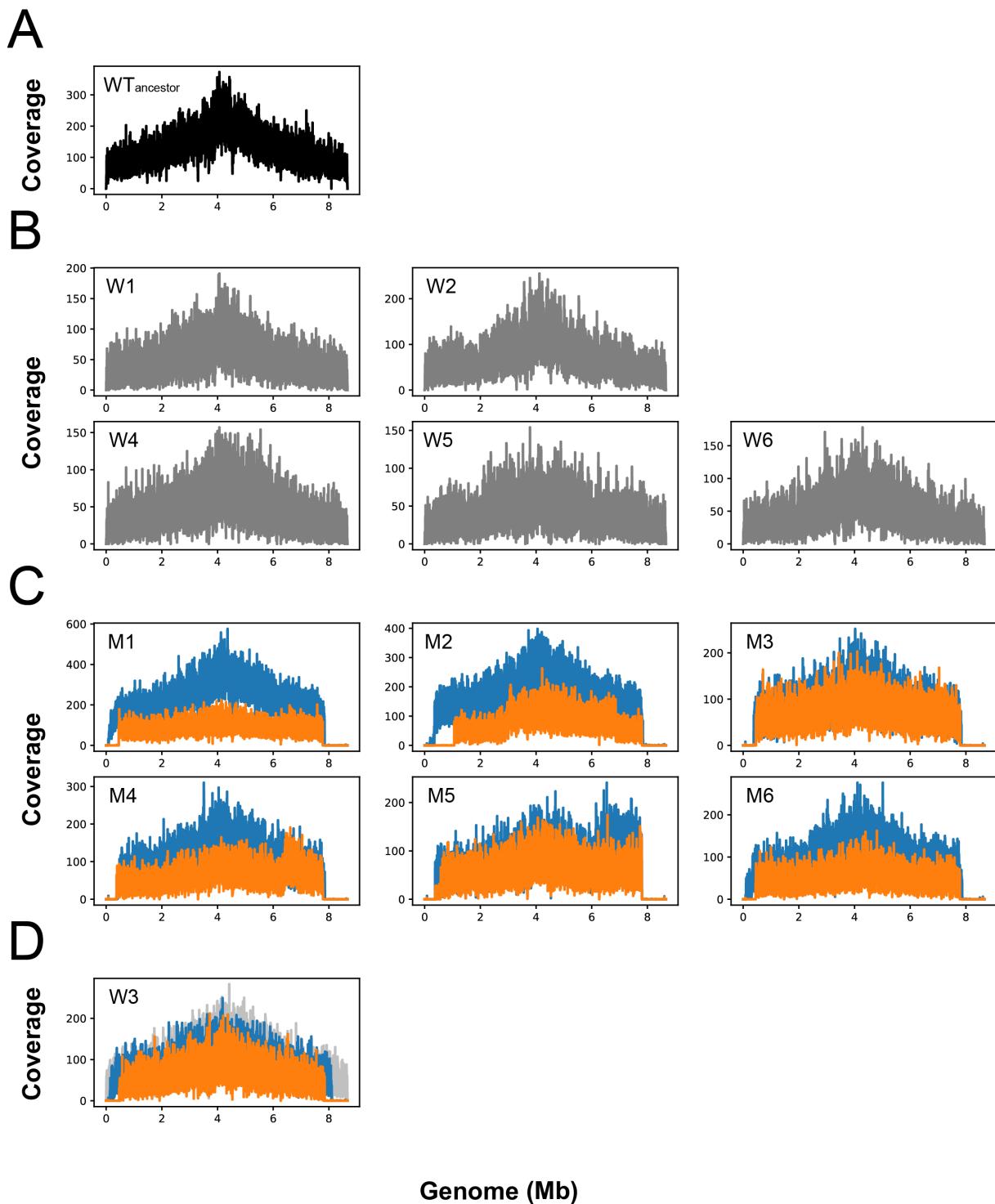


Fig. S3. Pacbio sequencing results of sampled strains. Plots indicate the coverage of reads mapped to the *S. coelicolor* M145 reference genome. **(A)** Ancestor WT. **(B)** T25 strains from WT lineages. **(C)** T0 (blue) and T25 (orange) strains from mutant lineages. **(D)** Strains of lineage W3 at T5 (light gray), T7 (blue) and T25 (orange).