

Description of the Supplementary Data files

File name: **Supplementary Data 1.**

Description: Information about antibiotics and bacterial strains used in this study.

File name: **Supplementary Data 2.**

Description: Mutations identified in whole-genome sequenced antibiotic-adapted lines.

File name: **Supplementary Data 3.**

Description: Genes that reduce antibiotic susceptibility upon overexpression (ASKA overexpression library).

File name: **Supplementary Data 4.**

Description: Functional metagenomic data, including information on libraries, DNA contigs and ORFs.

File name: **Supplementary Data 5.**

Description: Killing kinetics of antibiotics.