**Supplementary Table 1.** Antibiotic resistance genes with respective resistance mechanisms in *Bacillus subtilis* SOI-28

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| --- | --- | --- | --- | --- |
| **Gene** | **AMR gene family** | **Antibiotics** | **Mechanism** | **Gene Location (bp)** |
| *blt* | major facilitator superfamily (MFS) antibiotic efflux pump | fluoroquinolone antibiotic, disinfecting agents and antiseptics | antibiotic efflux | 11,887 bp ~ 13,089 bp |
| *qacG* | small multidrug resistance (SMR) antibiotic efflux pump | disinfecting agents and antiseptics | antibiotic efflux | 247,983 bp ~ 248,300 bp |
| *qacJ* | small multidrug resistance (SMR) antibiotic efflux pump | disinfecting agents and antiseptics | antibiotic efflux | 247,616 bp ~ 247,969 bp |
| *vanY gene in vanM cluster* | vanY, glycopeptide resistance gene cluster | glycopeptide antibiotic | antibiotic target alteration | 125,659 bp ~ 126,480 bp |
| *vanT gene in vanG cluster* | glycopeptide resistance gene cluster, vanT | glycopeptide antibiotic | antibiotic target alteration | 2,737 bp ~ 3,915 bp |
| *FosBx1* | fosfomycin thiol transferase | phosphonic acid antibiotic | antibiotic inactivation | 22,826 bp ~ 23,260 bp |
| *vanW gene in vanI cluster* | vanW, glycopeptide resistance gene cluster | glycopeptide antibiotic | antibiotic target alteration | 124,164 bp ~ 125,075 bp |
| *ykkD* | small multidrug resistance (SMR) antibiotic efflux pump | aminoglycoside antibiotic, tetracycline antibiotic, phenicol antibiotic | antibiotic efflux | 6,183 bp ~ 6,500 bp |
| *ykkC* | small multidrug resistance (SMR) antibiotic efflux pump | aminoglycoside antibiotic, tetracycline antibiotic, phenicol antibiotic | antibiotic efflux | 6,500 bp ~ 6,838 bp |
| *tet(45)* | major facilitator superfamily (MFS) antibiotic efflux pump | tetracycline antibiotic | antibiotic efflux | 34,545 bp ~ 35,921 bp |
| *vanT gene in vanG cluster* | glycopeptide resistance gene cluster, vanT | glycopeptide antibiotic | antibiotic target alteration | 10,457 bp ~ 11,626 bp |
| *aadK* | ANT(6) | aminoglycoside antibiotic | antibiotic inactivation | 30,651 bp ~ 31,505 bp |