Electronic Supplemental Materials:

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Impact of *otrA* expression on morphological differentiation, actinorhodin production, and resistance to aminoglycosides in *Streptomyces coelicolor* M145*#

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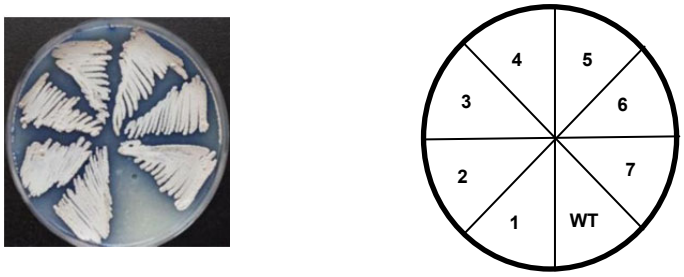

Fig. S1 Phenotypic verification of seven randomly recombinant strains of *S. coelicolor* M145-OA

M145-OA grew on MS agar medium containing 50 μg/ml apramycin, while original strain M145 (WT) did not. MS agar medium was incubated at 28 °C for 4 days

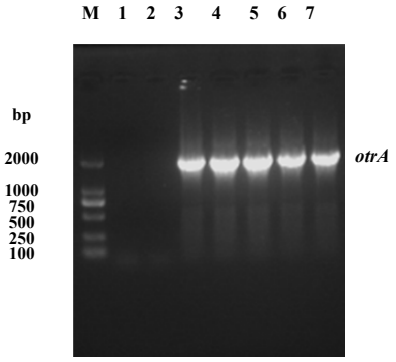

Fig. S2 PCR analysis of *otrA* gene from *S. coelicolor* M145-OA

DL DNA2000 marker was used (M). Lane 1: PCR product of *otrA* gene from *S. coelicolor* M145; lane 2: PCR product of *otrA* gene from *S. coelicolor* M145 with empty plasmid pIB139; lane 3: PCR product of *otrA* gene fromplasmid pIB139-*otrA*; lane 4-7: PCR product of *otrA* gene from fourrandomly recombinant strains*S. coelicolo* M145-OA

Fig. S3 Morphological analyses of *S. rimosus* M527 and *S. rimosus* M527-OA on MS medium

MS agar medium was incubated at 28 °C for 4 days. Number 1-4 represent four randomly recombinant strains of *S. rimosus* M527-OA