

Supporting Information

Cloning, sequencing, heterologous expression and mechanistic analysis of A-74528 biosynthesis

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Table S1: Primers used in the preparation and identification of deletion mutants in the *san* gene cluster

Table S1 PCR primers used for preparation and identification of <i>San-deleted mutants</i>	
San2-20Fwd	TCTACGGGCACGAGCAAGTCTTCACGGAAGCGGTCGACTATTCCGGGGATCCGTCGACC
San2-19Rev	TATGAGACAGGCAGGTCCACCGGCAACCTCCCCGAGTAGTGTAGGCTGGAGCTGCTTC
San2-OutFwd	AACGCTCATGATCCGAGCATCGG
San2-OutRev	TGGACCGACACGCTGAACATCG
SanM-20Fwd	AGTCGTGATGCTTGAGGATGTGCTCAGCGCGGTCGTGCTATTCCGGGGATCCGTCGACC
SanM-19Rev	CAAGCCCTTCGAGCGAGCGGTTGATCGGGACGTTGCCGATGTAGGCTGGAGCTGCTCS
SanM-OutFw	GTAGTCGAGCAGCACTCCACAG
SanM-OutRev	GACTCAGTGGGGATGATCAGACG
SanX-20Fwd	TTCTGACGCGCTCAGCGTCGCTGTCGGCCCTCGAAGGCGAATTCCGGGGATCCGTCGACC
SanX-19Rev	GGTCAACGTGTCAACGCCCCAGGTCCGGCGGTCGGTTCATGTAGGCTGGAGCTGCTTC
SanX-OutFwd	AGAAGGCGATGGTCAGCAGC
SanX-OutRev	TCTGCTGACGAAGTTCGTCC

Figure S2: Scheme of in-frame deletion mutants *sanX*, *sanM* and *san2* in the A-74528 gene cluster

