

**Table S1. List of strains, plasmids and cosmids employed in this study**

Strain, plasmid or cosmid	Description*	Reference and source
<i>Planobispora rosea</i> ATCC 53733	Natural producer strain of GE2270, contains the <i>pbt</i> biosynthetic gene cluster	Naicons strain collection [1]
<i>Nonomuraea</i> sp. ATCC 39727	Producer strain of glycopeptide A40926; suitable for heterologous expression of GE2270	Naicons strain collection [2]
<i>S. coelicolor</i> M1146	SCP1 <sup>-</sup> , SCP2 <sup>-</sup> , $\Delta act$ , $\Delta red$ , $\Delta cpk$ , $\Delta cda$	Gomez-Escribano and Bibb, 2011 [3]
<i>S. coelicolor</i> M1146(pbtKA01)	<i>S. coelicolor</i> M1146 containing 2F7 with <i>tcp830</i> in front of <i>pbtR</i> ; Cm <sup>r</sup> , Bla <sup>r</sup> , Apra <sup>r</sup>	This work
<i>S. coelicolor</i> M1146(pbtKA02)	<i>S. coelicolor</i> M1146 containing 2F7 with <i>tcp830</i> in front of <i>pbtG1</i> ; lacks <i>pbtR</i> , Cm <sup>r</sup> , Bla <sup>r</sup> , Apra <sup>r</sup>	This work
<i>S. coelicolor</i> M1146(pbtCK01)	<i>S. coelicolor</i> M1146 containing the <i>pbt</i> gene cluster, lacks 22 ribosomal genes of 2F7; Cm <sup>r</sup> , Bla <sup>r</sup> , Apra <sup>r</sup>	This work
<i>S. coelicolor</i> M1146(pbtCK02)	<i>S. coelicolor</i> M1146 containing the <i>pbt</i> gene cluster, lacks 25 ribosomal genes of 2F7; <i>PerME*</i> in front of <i>tuf</i> , Cm <sup>r</sup> , Bla <sup>r</sup> , Hyg <sup>r</sup>	This work
<i>S. coelicolor</i> M1146(pbtCK03)	<i>S. coelicolor</i> M1146 containing the <i>pbt</i> gene cluster, lacks 25 ribosomal genes of 2F7; <i>PerME*</i> in front of <i>tuf</i> , <i>tcp830</i> in front of <i>pbtR</i> ; Cm <sup>r</sup> , Bla <sup>r</sup> , Hyg <sup>r</sup>	This work
<i>S. coelicolor</i> M1146(pbtCK04)	<i>S. coelicolor</i> M1146 containing the <i>pbt</i> gene cluster, lacks 25 ribosomal genes of 2F7; <i>PerME*</i> in front of <i>tuf</i> , <i>tcp830</i> in front of <i>pbtG1</i> ; lacks <i>pbtR</i> ; Cm <sup>r</sup> , Bla <sup>r</sup> , Hyg <sup>r</sup>	This work
<i>S. coelicolor</i> M1146(pbtCK05)	<i>S. coelicolor</i> M1146 containing the <i>pbt</i> gene cluster, lacks 25 ribosomal genes of 2F7; <i>PerME*</i> in front of <i>tuf</i> , <i>tcp830</i> in front of <i>pbtA</i> ; Cm <sup>r</sup> , Bla <sup>r</sup> , Hyg <sup>r</sup>	This work
<i>S. coelicolor</i> M1146(pbtCK08)	<i>S. coelicolor</i> M1146 containing 25 ribosomal genes and <i>tuf</i> ; lacks <i>pbt</i> gene cluster; Cm <sup>r</sup> , Bla <sup>r</sup> , Apra <sup>r</sup>	This work
<i>E. coli</i> BW25113	K-12 BD792 derivative: <i>lacI</i> <sup>r</sup> , <i>rrnB</i> <sub>T14</sub> , $\Delta lacZ$ <sub>WJ16</sub> , <i>hsdR514</i> , $\Delta araBAD$ <sub>AH33</sub> , $\Delta rhaBAD$ <sub>LD78</sub>	Datsenko and Wanner, 2000 [4]
<i>E. coli</i> BT340	DH5 $\alpha$ /pCP20	Cherepanov and Wackernagel, 1995 [5]
<i>E. coli</i> DH5 $\alpha$	<i>recA1</i> , <i>endA1</i> , <i>hsdR17</i> , <i>gyrA96</i> , <i>relA1</i> ,	Stratagene
<i>E. coli</i> ET12567	Nonmethylation strain ( <i>dam</i> <sup>-</sup> <i>dcm</i> <sup>-</sup> <i>hsdM</i> ), Tet <sup>R</sup> , Cm <sup>R</sup>	MacNeil <i>et al.</i> , 1992 [6]
<b>plasmid or cosmid</b>		
pIJ790	$\lambda$ -RED ( <i>gam</i> , <i>bet</i> , <i>exo</i> ), <i>cat</i> , <i>araC</i> , <i>rep101</i> <sup>ts</sup>	Gust <i>et al.</i> , 2003 [7]
pUB307	RP4 derivative <i>oriT</i> <sup>+</sup> , Kan <sup>R</sup>	Bennett <i>et al.</i> , 1977 [8] Flett <i>et al.</i> , 1997 [9]
pIJ774	<i>aac(3)IV</i> (Apra <sup>r</sup> ), <i>oriT</i> <sup>+</sup> , <i>loxP</i>	Khodakaramian <i>et al.</i> , 2006 [10]
pUWL201hyg	<i>PerME*</i> , <i>hyg</i> (Hyg <sup>r</sup> ), Bla <sup>r</sup> , <i>oriT</i> <sup>+</sup>	Saleh <i>et al.</i> 2012 [11]
pMS80	Plasmid containing the <i>aac(3)IV-tcp830</i> cassette; Apra <sup>R</sup>	Rodriguez-Garcia <i>et al.</i> , 2005 [12]

2F7	SuperCos3 based, containing GE2270 biosynthetic gene cluster ( <i>pbt</i> ), Apra <sup>R</sup> , Bla <sup>R</sup>	Tocchetti <i>et al.</i> , 2013 [13]
2F7cat	2F7, <i>cat</i> (Cm <sup>R</sup> ) instead of Apra <sup>R</sup>	This work
pbtCK01	2F7cat ribosomal genes replaced by 774	This work
pbtCK02	2F7cat lacking 25 ribosomal genes; <i>PermE</i> <sup>*</sup> in front of <i>tuf</i> , Cm <sup>R</sup> , Hyg <sup>R</sup>	This work
pbtCK03	2F7cat lacking 25 ribosomal genes; <i>PermE</i> <sup>*</sup> in front of <i>tuf</i> , <i>tcp830</i> promoter upstream of <i>pbtR</i> ; Cm <sup>R</sup> , Hyg <sup>R</sup>	This work
pbtCK04	2F7cat lacking 25 ribosomal genes; <i>PermE</i> <sup>*</sup> in front of <i>tuf</i> , <i>tcp830</i> promoter upstream of <i>pbtG1</i> , lacking <i>pbtR</i> ; Cm <sup>R</sup> , Hyg <sup>R</sup>	This work
pbtCK05	2F7cat lacking 25 ribosomal genes; <i>PermE</i> <sup>*</sup> in front of <i>tuf</i> , <i>tcp830</i> promoter upstream of <i>pbtA</i> ; Cm <sup>R</sup> , Hyg <sup>R</sup>	This work
pbtCK08	2F7cat containing 25 ribosomal genes and <i>tuf</i> , lacks <i>pbt</i> gene cluster; Apra <sup>r</sup>	This work

\* Cm<sup>R</sup> chloramphenicol-, Bla<sup>R</sup> ampicillin-, Apra<sup>r</sup> apramycin-, Hyg<sup>R</sup> hygromycin-, Tet<sup>R</sup> tetracyclin-, kan<sup>R</sup> kanamycin-resistant

## References

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