



Supplementary Materials

Effective Healing of *Staphylococcus aureus*-Infected Wounds in Pig Cathelicidin Protegrin-1-Overexpressing Transgenic Mice

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Table S1. Evaluation of minimum inhibitory concentration of recombinant PG1.

Strains	PG1 (µg/mL)	Gentamycin (µg/mL)
<i>Staphylococcus aureus</i> ATCC 6538	4	2
<i>Escherichia coli</i> ATCC 25922	6	1

Table S2. Primers used in the Real-time quantitative PCR.

Name	Primer Sequence (5' to 3')	Species Amplified
IL-6-F	TACCACTTCACAAGTCGGAGGC	Mouse
IL-6-R	CTGCAAGTGCATCATCGTTGTTC	Mouse
TNFα-F	GCCTCTTCTCATTCCTGCTTG	Mouse
TNFα-R	CTGATGAGAGGGAGGCCATT	Mouse
GAPDH-F	GTGAAGGTCGGTGTGAACGGATT	Mouse
GAPDH-R	GGAGATGATGACCCTTTTGGCTC	Mouse

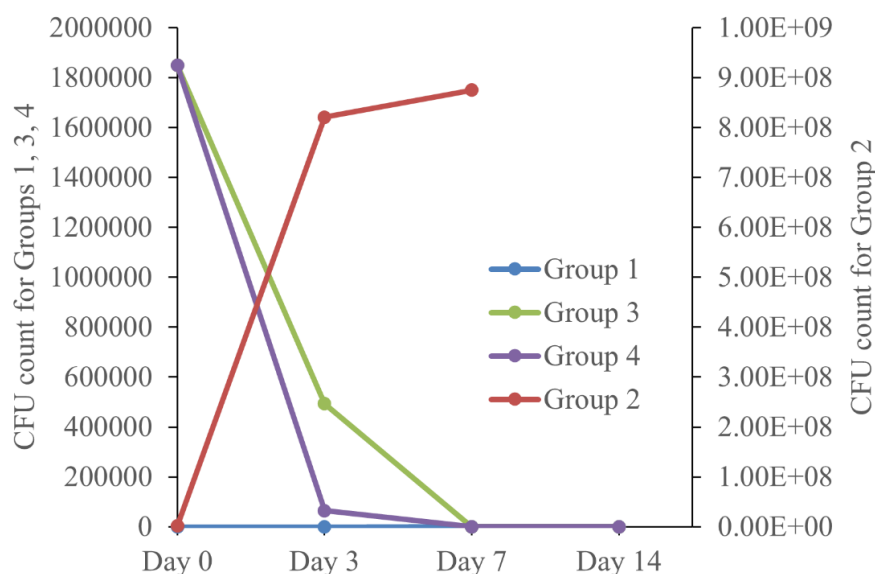


Figure S1. Estimation of bacterial loads in wound biopsy. Five mice per group were used to estimate the colony forming unit (CFU)/gram wound biopsy tissue. Group 1; PG1 Tg mice without infection, Group 2; wildtype mice with infection, Group 3; wildtype mice with infection and treated with gentamycin, and Group 4; PG1 Tg mice with infection. Both Group 3 and 4 showed significant

reduction of bacterial count on day 7 and 14. Group 2 to 4 were infected with 1.0×10^6 CFU of *S. aureus*.

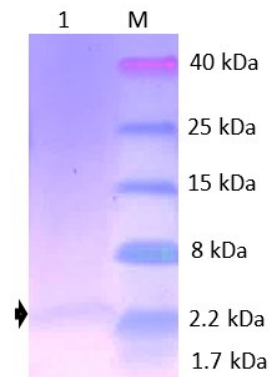


Figure S2. Recombinant PG1 purified by RP-HPLC. Lane 1: Recombinant PG1 purified by RP-HPLC analyzed by 16% Tris-tricine SDS-PAGE. The target band corresponding to PG1 is indicated by an arrow. Lane M, low-molecular-weight marker (Lane M). The PG1 purity was > 95% according to SDS-PAGE.