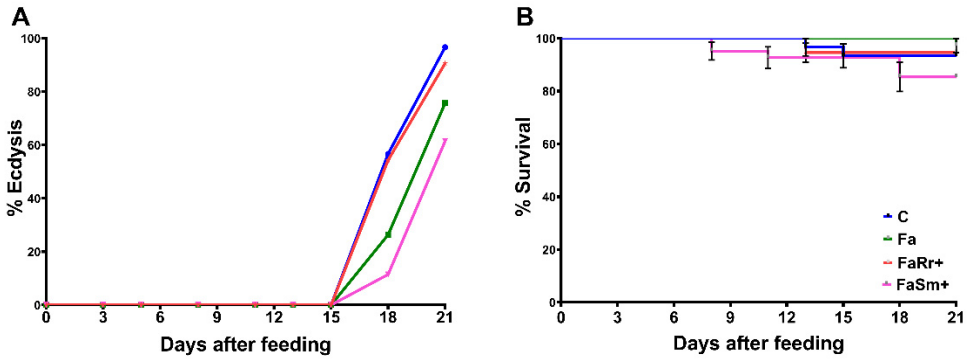

Figure S1. Survival and molting of 5th instar nymphs of *Rhodnius prolixus* recolonized with *Rhodococcus rhodnii* or *Serratia marcescens*. Ecdysis (**A**) and survival (**B**). The insects were previously treated with antibiotics as nymphs of the 4th instar, except for the control group and, after molting, recolonized with *Rhodococcus rhodnii* or *Serratia marcescens* by adding the bacteria to the blood feeding. Antibiotics treatment of 4th instar consisted of ampicillin, penicillin, and hygromycin with final concentrations of 150, 150, and 1 μg/mL, respectively, added in defibrinated rabbit blood. For recolonization with *R. rhodnii* or *S. marcescens*, a concentration of 10^3 and 10^4 cells/mL was added to the blood meal, respectively. Legend: control (C, in blue); antibiotic control (A in green); *R. rhodnii* (FaRr+, in red); *S. marcescens* (FaSm+ in pink). Percentage of 2 experiments using for each group 3 pools containing 10 insects each, n = 6, representing 60 insects. The log-rank (Mantel–Cox) test was performed for survival statistics analysis, ns.

Table S1. Primers used in RT-qPCR experiments and additional information.

Primers	Sequence (5′-3′)	GenBank Accession Number	Amplicon Size (pb)	References
α-tubulin-F *	TTTCCTCGATCACTGCTTCC	ACPB02030650	129	[1]
α-tubulin-R *	CGGAAATAACTGGGGCATAA			
GAPDH-F *	GATGGCGCCCAGTACATAGT	ACPB02038754	111	[1]
GAPDH-R *	AGCTGACGGGGCTGTTATTA			
18S-R.prolixus-F *	TCCTTCGTGCTAGGAATTGG		105	[1]
18S-R.prolixus-R *	GTACAAAGGGCAGGGACGTA			[1]
DefA-F	GAATACTCCACTCAACCGCAAC	AY196130	295	[2]
DefA-R	TAGTTCCTTTACATCGGCCA			
DefC-F	CAGTACAGTCCTAATACCTAGCC	AY196132	300	[2]
DefC-R	CAGTTCCTACGCAACGGCCT			
Prol-F	CTATAACGAGTGAACTATAAGACAA	EU448993	406	[2]
Prol-R	GTGTTTAATGGCGGTAACAAATTAC			
NOS-F	AATG GGCACCAGAAGTGTTC	U59389	238	[3]
NOS-R	GTTGCCGATTCCACAAATCT			
16S-S.Marcescens-F	GGTGAGCTTAATACGTTCATCAATTG	AJ233431	179	[4]
16S-S.Marcescens-R	GCAGTTCCCAGGTTGAGCC			
16S-R.rhodnii-F	CACTGGTTGCATGGCCTGGTG	EU650780	418	[2]
16S-R.rhodnii-R	TGAGCTGTGGGATTTCACAGAC			

* Reference genes.

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