

Supplementary Table 1 Germination percentage of *Striga* seed in response to racGR24

Bacterial strains	Germination (%)	
	Applied during conditioning	Applied to water-conditioned seeds
Control (culture medium only)	59.9±1.4 a	62.6±1.7 a
<i>B.amyloliquefaciens</i> NRRL B-942	39.2±7.0 bc	31.2±3.1 b
<i>B.atrophaeus</i> NRRL B-363	39.2±3.3 bc	29.5 ±3.1 b
<i>B.subtilis</i> NRRL B -14322	57.5±4.7 ab	38.2 ±2.4 b
<i>B.subtilis</i> NRRL B-1471	45.9±5.4 abc	31.8 ±1.0 b
<i>B.subtilis</i> NRRL B-59273	53.8±4.1 abc	30.2 ±4.9 b
<i>B.velezensis</i> NRRL B-1580	36.3±3.5 c	29.2 ±1.8 b
<i>B.velezensis</i> NRRL B23789	57.2±2.9 ab	34.2 ±3.2 b
<i>Ps. flurescence</i> NRRL B-2322	41.7±2.4 abc	40.8 ±5.7 b
<i>Ps. flurescence</i> NRRL B-1029	54.4±5.7 abc	36.7 ±3.2 b
<i>G.asaii</i> NRRL B-4241	35.1±3.4 c	31.8 ±1.7 b
<i>G.diazotrophuicus</i> PA15	44.3±3.9 abc	35.1 ±5.5 b
<i>G.xylinus</i> NRRL B-758	38.7±2.4 bc	37.2 ±4.9 b
<i>Streptomyces morookaensis</i> NRRL B-12429	35.1±2.8 c	28.4 ±0.6 b

Values are the mean of three replicates ± standard error. Different letters indicate significant differences at $p \leq 0.05$, as determined by ANOVA, followed by Tukey's test.

Supplementary Table 2 Radical elongation of *Striga* in response to racGR24

Bacterial strains	Radical elongation (μm)	
	Applied during conditioning	Applied to water-conditioned seeds
Control (culture medium only)	742.1 \pm 36.8 a	885.5 \pm 64.9 a
<i>B.amyloliquefaciens</i> NRRL B-942	472.9 \pm 51.2 abcd	478.7 \pm 46.7 ab
<i>B.atrophaeus</i> NRRL B-363	368.2 \pm 49.8 cd	324.2 \pm 24 b
<i>B.subtilis</i> NRRL B -14322	493.6 \pm 71.4 abcd	542.7 \pm 40.1 ab
<i>B.subtilis</i> NRRL B-1471	503 \pm 28.5 abcd	433.9 \pm 63.4 b
<i>B.subtilis</i> NRRL B-59273	497.6 \pm 24.2 abcd	485.1 \pm 77.1 ab
<i>B.velezensis</i> NRRL B-1580	411.5 \pm 24.3 bcd	382.6 \pm 55 b
<i>B.velezensis</i> NRRL B23789	545.5 \pm 28.7 abcd	545.5 \pm 28.7 ab
<i>Ps. flurescence</i> NRRL B-2322	518.6 \pm 68.4 abcd	540.5 \pm 69.8 ab
<i>Ps.flurescence</i> NRRL B-1029	535.5 \pm 44.7 abcd	543.9 \pm 46 ab
<i>G.asaii</i> NRRL B-4241	403.4 \pm 81.7 bcd	382.8 \pm 134 b
<i>G.diazotrophuicus</i> PA1 5	572.5 \pm 44.9 abc	549.4 \pm 124.8 ab
<i>G.xylinus</i> NRRL B-758	420.5 \pm 79.4 bcd	589.7 \pm 181 ab
<i>Streptomyces morookaensis</i> NRRL B-12429	283.9 \pm 79.7 d	307.1 \pm 91.8 b

Values are the mean of three replicates \pm standard error. Different letters indicate significant differences at $p \leq 0.05$, as determined by ANOVA, followed by Tukey's test.

Supplementary Table 3 Germination percentage of *Striga* seed in the presence of sorghum

Bacterial strains	Germination (%)	
	Applied during conditioning	Applied to water-conditioned seeds
Control	37.09 ±1.3 a	39.14 ±4.9 a
<i>B.atrophaeus</i> NRRL B-363	23.95 ±5.4 ab	22.11 ±7.6 ab
<i>B.velezensis</i> NRRL B-1580	26.65 ±9.7 ab	21.34 ±3.3 ab
<i>G.asaii</i> NRRL B-4241	26.23 ±8.5 ab	16.04 ±2.4 b
<i>Streptomyces morookaensis</i> NRRL B-12429	14.76 ±2.9 b	14.78 ±2.9 b

Values are the mean of three replicates ± standard error. Different letters indicate significant differences at $p \leq 0.05$, as determined by ANOVA, followed by Tukey's test.