Figure S1. Antimicrobial peptide (AMP) gene induction patterns in the hemocytes of TmSpz6-silenced larvae. AMP gene expression levels in the hemocytes of TmSpz6-knockdown T. molitor larvae were assessed after injection with E. coli (Ec), S. aureus (Sa), or C. albicans (Ca). PBS was injected as a control at 5 days post-TmSpz4 silencing. At 24 h post-microbial challenge, the expression levels of the following AMP genes were measured by qRT-PCR: TmTen-1, TmTen-2, TmTen-3, TmTen-4, TmAtt-1a, TmAtt-1b, TmAtt-2, TmDef-1, TmDef-2, TmCol-1, TmCol-2, TmCec-2, TmTLP-1, and TmTLP-2. dsEGFP was injected as a negative control, and TmL27a expression was assessed as an internal control. All experiments were performed in triplicate. Asterisks indicate significant differences between dsTmSpz- and dsEGFP-treated groups when compared by Student’s t-test (p ≤ 0.05).
Figure S2. Antimicrobial peptide (AMP) gene induction patterns in the fat body of TmSpz6-silenced larvae. AMP gene expression levels in the fat body of TmSpz6-knockdown T. molitor larvae were assessed after injection with E. coli (Ec), S. aureus (Sa), or C. albicans (Ca). PBS was injected as a control at 5 days post-TmSpz4 silencing. At 24 h post-microbial challenge, the expression levels of the following AMP genes was measured by qRT-PCR: TmTen-1, TmTen-2, TmTen-3, TmTen-4, TmAtt-1a, TmAtt-1b, TmAtt-2, TmDef-1, TmDef-2, TmCol-1, TmCol-2, TmCec-2, TmTLP-1, and TmTLP-2. dsEGFP was injected as a negative control, and TmL27a expression was assessed as an internal control. All experiments were performed in triplicate. Asterisks indicate significant differences between dsTmSpz6- and dsEGFP-treated groups when compared by Student’s t-test (p ≤ 0.05).
Figure S3. Antimicrobial peptide (AMP) gene induction patterns in the gut of TmSpz6-silenced larvae. AMP gene expression levels in the gut of TmSpz6-knockdown T. molitor larvae were measured after injecting E. coli (Ec), S. aureus (Sa), or C. albicans (Ca). PBS was injected as a control at 5 days post-TmSpz4 silencing. At 24 h post-microbial challenge, the expression levels of several AMP genes, including TmTen-1, TmTen-2, TmTen-3, TmTen-4, TmAtt-1a, TmAtt-1b, TmDef-1, TmDef-2, TmCol-1, TmCol-2, TmCec-2, TmTLP-1, and TmTLP-2, were measured by qRT-PCR. dsEGFP was injected as a negative control for dsTmSpz6, and TmL27a was measured as an internal control. All experiments were performed in triplicate. Asterisks indicate significant differences between dsTmSpz6- and dsTmEGFP-treated groups when compared by Student’s t-test (p ≤ 0.05).