



Figure 1. 1% Agarose gel electrophoresis of *LordVader* restriction digest. Each lane contains a 24 μ L aliquot of digested DNA suspended in a mastermix solution (2 μ L 10X CutSmart buffer, 0.2 μ L RNase A, 16.3 μ L mqH₂O). Lane 1 contains 7 μ L of DNA ladder, while lanes 2-8 contain purified *Lambda* DNA solution cut by 0.5 μ L of one of six restriction enzymes. Lane 9-15 contain purified *LordVader* DNA solution cut by 0.5 μ L of one of six restriction enzymes. The 0.8-1.3% agarose gel electrophoresis was run for 1.5h before imaging using the Bio-Rad imager.