



**Figure 1. 1% Agarose gel electrophoresis of *LordVader* restriction digest.** Each lane contains a 24 $\mu$ L aliquot of digested DNA suspended in a mastermix solution. Lane 1 contains 7 $\mu$ L DNA ladder, while lanes 2-8 contain purified *Lambda* DNA solution cut by 0.5 $\mu$ L of one of six restriction enzymes. Lane 9-15 contain purified *LordVader* DNA solution cut by 0.5 $\mu$ L of one of six restriction enzymes. The 0.8-1.3% agarose gel electrophoresis was run for 1.5h before imaging with ethidium bromide using a Bio-Rad imager.