

The diagram illustrates the pTOPO33int plasmid and its integration into the host genome. The plasmid is a circular vector containing a Zeocin resistance gene (ZeO) and a Kanamycin resistance gene (Km). The integration site is marked by a red box labeled 'A' and 'A''.



Agarose gel electrophoresis image showing PCR products. The lanes are labeled M, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, and WT. Molecular weight markers are indicated on the left: 872 bp, 697 bp, and 603 bp. Lane M contains the DNA ladder. Lanes 1 through 10 show a single band at approximately 697 bp. Lane WT shows no band.

Agarose gel electrophoresis image showing PCR products. Lanes are labeled M, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, and WT. Molecular weight markers are indicated on the left: 872 bp, 798 bp, and 603 bp. Lane M contains the marker bands. Lanes 1-10 show a single band at approximately 798 bp. Lane WT shows no band.