

Product Information

RightZAP2.2

Research use only

Catalog No: ZR-04
Lot No: 0411

Contents:
 20 µg DNA, 0.5 µg/µL
 in TE pH 7.5

Storage: -20°C

Features and Applications:
 RightZAP2.2 DNA is a 29.8 kb linear DNA fragment that encompasses bp 3504-right end of the Ad5 genome. The E3 region is deleted (2.7 kb). The DNA was purified from a cosmid. It is used in combination with the shuttle vectors pZAP2.1 or pZAP2.2 to construct replication-deficient adenoviruses

containing transgenes in place of the E1 region of the Ad5 genome. The maximum transgene capacity of the resulting virus is 7.9 kb.

Quality Control Assays:

Ligation:

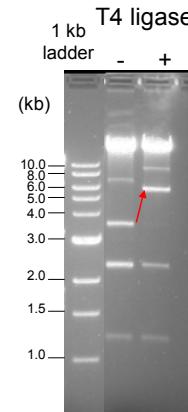
The following reaction was set up:

2 µL RightZAP2.2
 2 µL Left Arm (β Gal)
 4 µL H₂O
 1 µL T4 DNA Ligase buffer
 0.5 µL *PacI* (10 u/µL)
 0.5 µL T4 DNA Ligase

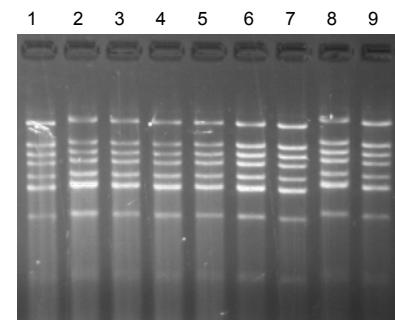
Total: 10 µL

The reaction was performed for 1 hour at room temperature and stopped by inactivating the T4 Ligase for 10 min. at 65°C. The ligation product was digested with *Bst*1107I. This enzyme generates a 2.3 bp-long DNA fragment corresponding to the left end of RightZap2.2, and a ~3.5 kb DNA fragment corresponding to the C-terminus of β -gal left arm. In presence

of T4 DNA ligase, the 3.5 kb β gal fragment is almost completely shifted to form a ~ 5.8 kb DNA fragment with the 2.3 kb DNA fragment originating from RightZAP2.2 DNA.



6-cm dishes) using the calcium-phosphate method. The cell monolayer was covered with agar 1 day after transfection and plaques were counted. The first plaques were visible 4 days after transfection. Nine virus clones were amplified, their genomes were purified and analyzed by restriction with *Hind*III. All clones presented the expected restriction pattern.



Virus Recovery:

The ligation mixture (2 µg DNA) was transfected into 293 cells (passage 40,