SmaI cuts in both AAV ITRs (these can be unstable in bacteria). When culturing the bacteria containing AAV ITRs, do not culture for more than 16-18 hours at 37°C because deletions may occur especially in stationary cultures. A missing ITR can be tolerated in about 20% of a plasmid prep. SmaI cuts in both AAV ITRs and can serve as a diagnostic that the ITRs are intact. One or the other ITRs may be deleted (and so will the SmaI site) during culturing and cloning. If an ITR is deleted, then the SmaI digests will generate larger molecular weight bands.

**Designation:** pTR-UF-11 plasmid in *E. coli*  
**Distribution Host:** *E. coli* SURE Cells from Stratagene

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**Propagation**

Streak a loopful of culture on an LB + 50 µg/mL ampicillin agar plate. Incubate liquid cultures at 37°C for no more than 16-18 hours. Isolate DNA using standard plasmid preparation procedures. Up to 20% of the plasmid population with one ITR deleted is tolerated.

**Growth Conditions**

**Temperature:** 37°C

**Propagation:**

Streak a loopful of culture on an LB + 50 µg/mL ampicillin agar plate. Incubate liquid cultures at 37°C for no more than 16-18 hours. Isolate DNA using standard plasmid preparation procedures. Up to 20% of the plasmid population with one ITR deleted is tolerated.

**Medium**

ATCC® Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

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**Vector Information**

**Vector size (in kb):** 7.2  
**Vector type:** AAV vector plasmid  
**Vector features:** CMV IE enhancer, Chicken β-actin promoter, AAV2 Inverted Terminal Repeats (ITRs), SV40 polyA, bovine growth hormone polyA  
**Bacterial selection:** Ampicillin

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**References**

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

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**Notes**

Restriction digests on the vector gave the following results (in Kb): PstI- 2.8, 1.9, 1.2, 1.0, 0.2, SmaI- 4.2, 3.0, faint band at 7.2 (indicates deletion of one ITR), NotI- 6.5, 0.7

--ATCC staff

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**Biosafety Level:** 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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