

**Plasmid pUC19 Containing cDNA from Enterovirus D68, US/IL/14-18952, Infectious Clone pUC-49131**

**Catalog No. NR-52011**

**For research use only. Not for human use.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Enterovirus species D type 68 (EV-D68), US/IL/14-18952 (GenBank: [KM851230](#)) genome was cloned into the *Escherichia coli* (*E. coli*) cloning vector pUC19 to generate plasmid pUC-49131.<sup>1</sup> pUC-49131 contains a T7 bacteriophage promoter immediately upstream of the 5' end of the viral genome. Transfection of rhabdomyosarcoma cells with RNA transcribed *in vitro* from *Sall*-linearized plasmid results in production of infectious virus particles.<sup>1</sup> pUC-49131 also contains the beta-lactamase gene to provide transformant selection through ampicillin resistance in *E. coli*. The resulting size of the plasmid is approximately 10,082 base pairs (Figure 1).<sup>1</sup> The complete plasmid sequence is provided on the BEI Resources webpage. The plasmid was produced in *E. coli* and extracted.

NR-52011 has been qualified for use in bacterial transformations.

**Material Provided:**

Each vial contains approximately 100 µL of plasmid DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0). The DNA concentration and content are shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Note: The contents of the vial should be used to amplify the plasmid in *E. coli* prior to mammalian expression.

**Packaging/Storage:**

NR-52011 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Plasmid pUC19 Containing cDNA from Enterovirus D68, US/IL/14-18952, Infectious Clone pUC-49131, NR-52011."

**Biosafety Level: 1**

Appropriate safety procedures should always be used with this

material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

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**References:**

1. Andino, R., Personal Communication.

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Figure 1: Plasmid Map for NR-52011

