

**Data Sheet**

**NAME:** pSG3<sup>ΔENV</sup>

**REPOSITORY REFERENCE:** ARP2064

**NOTE:** This clone is also available as a member of a panel set, see **ARP2066**

**PROVIDED:** 20 µg plasmid DNA/per vial (0.5 mg/ml)

**CLONING VECTOR:** pTZ19U (ampicillin resistant). The size of the cloning vector including the insert is 14.5 Kb.

**DESCRIPTION:** pSG3<sup>ΔENV</sup> was derived from pSG3.1 (cat# 2003) by SpeI partial digestion, Klenow filling of the 3' recessed ends and religation. This introduced a four nucleotide insertion mutation (CTAG) in *env* and a translation stop codon after amino acid residue 142.

**SPECIAL CHARACTERISTICS:** The pSG3<sup>ΔENV</sup> proviral clone contains a defective *vpu* gene and the plasmid tends to delete viral sequence during propagation in *E. coli*. The pSG3<sup>ΔENV</sup> clone is useful for generating Env pseudotyped infectious virions and facilitates the analysis of immunologic and pharmacologic inhibitors that target the HIV-1 Env glycoprotein. Sequence information is available

**PLASMID EXPANSION:** It is recommended that this plasmid be expanded using DH5α<sup>TM</sup> Competent Cells in LB medium at 34°C.

**GENE BANK:** Accession number is L02317

**STORAGE:** -80°C

**SOURCE:** Drs. John C. Kappes and Xiaoyun Wu (Courtesy of NIH AIDS Research and Reference Reagent Programme.)

**REFERENCE :** Wei S, Decker JM, Liu H, Zhang Z, Arani RB, Kilby JM, Saag MS, Wu X, Shaw GM and Kappes JC. Emergence of resistant human immunodeficiency virus type 1 in patients receiving fusion inhibitor (T-20) monotherapy. *Antimicrob Agents Chemother* **46**: 1896-1905, 2002. Wei X, Decker JM, Wang S, Hui H, Kappes JC, Wu X, Salazar-Gonzalez JF, Salazar MG, Kilby JM, Saag MS, Komarova NL, Nowak MA, Hahn BH, Kwong PD and Shaw GM. Antibody neutralization and escape by HIV-1. *Nature* **422**: 307-312, 2003.

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Please also ensure that you send us a copy of any papers resulting from work using reagents acquired through CFAR (this can be electronically or as a paper copy)

**NOTE:** **Scientists at for-profit institutions or who intend commercial use of this reagent must contact William S. White, UAB Research Foundation, The Office of Intellectual Property Management, AB 1120G, 1530 3rd Ave. S, Birmingham AL 35294-0111, Tel: 205-996-2550 Fax: 205-934-5427, email: wswhite@uab.edu, before the reagent can be released.**