

Plasmid pSVIII Expressing Human Immunodeficiency Virus Type 1 (HIV-1) 92HT593.1 gp160

Catalog No. HRP-3077

Product Description:

HRP-3077 is a human immunodeficiency virus type 1 (HIV-1), subtype B molecular clone of the *env* gene (GenBank: [U08444](#)).¹ The ampicillin resistance gene, *bla*, provides transformant selection through ampicillin resistance in *Escherichia coli* (*E. coli*). The deposited plasmid DNA was transformed into MAX Efficiency™ Stbl2™ *E. coli* (Invitrogen™ 10268019), grown in Luria-Bertani broth with ampicillin (100 µg/mL) for 20 hours at 37°C in an aerobic atmosphere, extracted using a Plasmid Plus Maxi Kit (QIAGEN® 12963) and vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0).

Lot: 70072395

Manufacturing Date: 24OCT2024

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 7990 base pairs	7989 base pairs ¹
Genotypic Analysis Sequencing of p92HT593.1 gp160 insert (~ 2870 base pairs)	≥ 99% sequence identity to depositor's sequence (GenBank: U08444.1)	99.5% sequence identity to depositor's sequence (GenBank: U08444.1)
Antibiotic Resistance Ampicillin (encoded by <i>bla</i> gene)	<i>bla</i> sequence present	<i>bla</i> sequence present
Concentration by Qubit Fluorometer®	Report results	1.99 µg in 100 µL/vial (19.9 µg/mL)
Amount per Vial	Report results	1.99 µg/vial
OD₂₆₀/OD₂₈₀ Ratio (pre-vial)	1.7 to 2.1	1.9
Effective Bacterial Transformation MAX Efficiency™ Stbl2™ <i>E. coli</i>	≥ 50 colonies/ng	1370 colonies/ng

¹The sequence was assembled pre-vial using the depositor's predicted sequence as the reference sequence. The complete plasmid sequence and map are provided on the BEI Resources webpage.

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21 APR 2025

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