

Burkholderia species

Catalog No. NR-12210

Product Description:

NR-12210 is a mobilizable replicative vector, pMo79, for allelic exchange in *Burkholderia* species (GenBank: FJ267590). The vector was cloned into host *Escherichia coli* (*E. coli*) TOP10 cells with no insert. The deposited plasmid was transformed into One Shot® TOP10 chemically competent *E. coli* and grown in Luria-Bertani broth with kanamycin (50 µg/mL) at 30°C for 18 hours with shaking at 180 rpm, in an aerobic atmosphere. The plasmid was extracted using a Plasmid Mega Kit (QIAGEN® 12181) and vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.5).

Lot: 60453672

Manufacturing Date: 03NOV2011

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 8000 base pairs	8025 base pairs
Genotypic Analysis Sequencing of pMo79 plasmid (~ 7970 base pairs)	> 99% sequence identity to depositor's sequence	99.1% sequence identity to depositor's sequence ¹
Antibiotic Resistance Kanamycin (encoded by <i>aph</i> gene)	<i>aph</i> sequence present	<i>aph</i> sequence present
Concentration by PicoGreen® Measurement	≥ 2 µg/mL	0.8 µg in 60 µL/vial (13.5 µg/mL)
Amount per Vial	Report results	0.8 µg/vial
OD ₂₆₀ /OD ₂₈₀ Ratio	1.7 to 2.1	2.0
Effective Bacterial Transformation One Shot® TOP10 <i>E. coli</i>	≥ 50 colonies/ng	≥ 100 colonies/ng

¹Sequencing results revealed that all significant elements of the vector match the published information, including the kanamycin resistance gene (*aph*), green fluorescent protein (*gfp*), and regions of mobilization and replication. There were some minor differences near the end of the RFP-mCherry gene; however, a translated amino acid sequence of this region is identical to other published RFP-mCherry sequences. NR-12210 plasmid sequence shows identity to replicative vector pMo79 (GenBank ID: FJ267590). The complete plasmid sequence and map are provided on the BEI Resources webpage.

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