

pMo168, Replicative Plasmid for Allelic Exchange in *Burkholderia* spp.

Catalog No. NR-12214

For research use only. Not for human use.

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Manufacturer:

BEI Resources

Product Description:

NR-12214 is a mobilizable replicative plasmid, pMo168, for allelic exchange in *Burkholderia* species (GenBank: [EU862244](#)).¹ Plasmid pMo168 was deposited cloned into host *Escherichia coli* (*E. coli*) JM109 cells with no insert. After transformation into a commercially available chemically competent strain of *E. coli*, pMo168 was extracted using a QIAGEN® Plasmid Mega Kit.

Note: Sequencing results revealed that all significant elements of the vector described in the literature¹ are present in NR-12214. The resulting size of the plasmid is 7.111 kilobases. The plasmid map and the complete plasmid sequence are provided on the Certificate of Analysis for NR-12214.

Material Provided:

Each vial of NR-12214 contains approximately 1 µg of plasmid DNA in TE buffer. The concentration is shown on the Certificate of Analysis.

Packaging/Storage:

NR-12214 was packaged aseptically in 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.

Post-Transformation Growth Conditions:

Media:

NR-12214 contains the gene required for kanamycin (Kan) resistance. The recommended concentration of Kan in culture is 50 µg/mL.

Luria Bertani (LB) broth or equivalent

LB agar or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Aerobic

Propagation:

Incubate the tube, slant and/or plate at 37°C for 24 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH:

pMo168, Replicative Plasmid for Allelic Exchange in *Burkholderia* spp., NR-12214."

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/bmbl5/index.htm.

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References:

- Hamad, M. A., et al. "An Allelic Exchange System for Compliant Genetic Manipulation of the Select Agents *Burkholderia pseudomallei* and *Burkholderia mallei*." *Gene* 430(2009): 123-131. PubMed: 19010402.

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