

Yersinia pestis pPCP1 Primer Set

Catalog No. NR-9686

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For research use only. Not for human use.

Contributor:

BEI Resources

Manufacturer:

Integrated DNA Technologies, Inc.

Product Description:

NR-9686 contains forward and reverse primers that specifically amplify a 400 nucleotide sequence from *Yersinia pestis* (*Y. pestis*) virulence plasmid pPCP1. The specificity of the primers for pPCP1 has been confirmed using a genomic DNA panel from eight *Y. pestis* with known plasmid profiles (BEI Resources NR-2715, NR-2716, NR-2717, NR-2718, NR-2719, NR-2720, NR-2644, and NR-2645). Genomic DNA from twenty-five *Yersinia* that contain no plasmids, two *Francisella* and one *Escherichia coli* were used as negative controls for specificity. The identity of the amplicon obtained from NR-2715 with this primer set has been verified by nucleotide sequencing.

A *Y. pestis* Plasmid Detection Kit containing primer sets and an internal control DNA for the detection of *Y. pestis* organisms and *Y. pestis* virulence plasmids pPCP1, PMT1 and pCD1 is available as BEI Resources NR-9562.

Additional information pertaining to the use of these primers may be found in the appendix to the NR-9562 Product Information Sheet. Successful use of this primer set necessarily depends on third party reagents. Please be advised that BEI Resources has observed considerable variation in the performance of polymerases and buffers obtained from different suppliers, and even among different lots of these reagents obtained from the same supplier. It is therefore critically important that users confirm effective assay performance in their own laboratories using the appropriate control templates.

Material Provided:

Each vial contains approximately 400 µL of a mixture of forward and reverse primers in TE buffer (pH 7.0). The concentration is shown on the Certificate of Analysis.

Packaging/Storage:

Primers were packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -60°C or colder upon arrival. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Yersinia pestis* pPCP1 Primer Set, NR-9686."

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.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

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