Product Information Sheet for MRA-810

Plasmid pMPMIV, for Transfection in *Plasmodium falciparum*

Catalog No. MRA-810

For research use only. Not for human use.

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Manufacturer:
BEI Resources

Product Description:
MRA-810 is an *Escherichia coli (E. coli)* expression plasmid, pMPMIV, encoding the plasmepsin IV gene from *Plasmodium falciparum*, strain HB3. It encodes mature plasmepsin IV with an N-terminal MGSE sequence. The parent vector is pET-3d (Novagen) and the recommmended host for expression is *E. coli* BL21 (DE3). *Nco*I and *Bam*HI flank the plasmepsin IV open reading frame (5' and 3', respectively). Ampicillin *(E. coli)* was incorporated as a selectable marker.[1]

The resulting size of the plasmid is approximately 5640 base pairs. The complete plasmid sequence and plasmid map are provided on the Certificate of Analysis for MRA-810.

Material Provided:
Each vial contains approximately 0.5 µg of plasmid DNA in buffer. The amount per vial, concentration and buffer composition are shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:
MRA-810 was packaged aseptically in screw-capped 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.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Plasmid pMPMIV, for Transfection in *Plasmodium falciparum*, MRA-810, contributed by Daniel E. Goldberg."

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:
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References:
1. Goldberg, D. E., Personal Communication.
2. Liu, J., et al. "The Role of *Plasmodium falciparum* Food Vacuole Plasmepsins." J. Biol. Chem. 280 (2005):1432-1437. PubMed: 15513918.

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