

Toxoplasma gondii* Fusion Protein Expression Vector (pminP30/G), Recombinant in *Escherichia coli

Catalog No. APR-2852

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Lot No. 95032

Manufacturing Date: Unknown; before 1998

For research use only. Not for human use.

Contributor:

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Manufacturer:

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Product Description:

ARP-2852 is an *Escherichia coli* (*E. coli*) DH5α stock containing a fusion protein vector expressing the initiation codon and signal sequence from the *Toxoplasma gondii* (*T. gondii*) major surface protein P30 (SAG1) fused to the rabies virus glycoprotein (G). The P30 sequence was amplified from genomic DNA by PCR. The flanking sequences were derived from the *T. gondii* dihydrofolate reductase-thymidylate synthase (*dhfr-ts*) gene. A *Bgl*II site separates the 5' untranslated region (UTR) from the P30 coding sequence, and a *Pst*I site separates the G coding sequencing from the 3' UTR. The construct was cloned into Bluescript pKS+ (Stratagene) from *Eco*Rv to *Sma*I, during which both sites were destroyed.

ARP-2852 is useful for construction of P30 fusion proteins for expression in transfected parasites. Although expression of rabies virus G-protein is very poor, the construct is suitable for replacing the G-protein gene with other transgenes of interest.

Material Provided:

Each vial contains approximately 500 μL of *E. coli* DH5α with pminP30/G in Luria Bertani (LB) broth supplemented with 10% glycerol.

Packaging/Storage:

ARP-2852 was packaged aseptically in plastic cryovials. The product is provided frozen on dry ice and should be stored at -60°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Growth Conditions:

Media:

LB broth or agar

Incubation:

Temperature: 37°C

Atmosphere: Aerobic

Propagation:

Incubate the tube, slant and/or plate at 37°C for 1 day.

Citation:

Acknowledgment for publications should read "The following reagent was provided by the NIH AIDS Reagent Program for distribution by BEI Resources, NIAID, NIH: *Toxoplasma gondii* Fusion Protein Expression Vector (pminP30/G), Recombinant in *Escherichia coli*, ARP-2852, contributed by Dr. David S. Roos."

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/bmbli5/index.htm.

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References:

1. Roos, D. S., et al. "Molecular Tools for the Genetic Dissection of the Protozoan Parasite *Toxoplasma gondii*." Methods Cell Biol. 45 (1994): 27-63. PubMed: 7707991.

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