Toxoplasma gondii HXGPRT Targeting Plasmid (pRHΔHXGPRT), Recombinant in *Escherichia coli*

Catalog No. ARP-2856

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Lot No. 95036

Manufacturing Date: Unknown; before 1998

For research use only. Not for human use.

Contributor:

David S. Roos, E. Otis Kendall Professor of Biology, Department of Biology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, USA and Bruce K. Brown, Project Director, National Institutes of Health AIDS Reagent Program, Germantown, Maryland, USA

Manufacturer:

David S. Roos, E. Otis Kendall Professor of Biology, Department of Biology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, USA

Product Description:

ARP-2856 is an *Escherichia coli (E. coli)* DH5α stock containing a targeting plasmid, pRHΔHXGPRT, for preparing HXGPRT-deficient host strains. pRHΔHXGPRT contains a genomic sequence encompassing the hypoxanthine-xanthine-guanine phosphribosyl transferase (HXGPRT) gene, from which an internal 1400 base pair *Sal*I fragment containing an essential coding sequence has been deleted. The remaining 5900 base pair upstream *Eco*RI-*Sal*I fragment and 5500 base pair downstream *Sal*I fragments are cloned into Bluescript pKS+ (Stratagene) from *Xho*I (filled) to *Sal*I.[1-3]

Material Provided:

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

Packaging/Storage:

ARP-2856 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* HCGPRT Targeting Plasmid (pRHΔHXGPRT), Recombinant in *Escherichia coli*, ARP-2856, 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/bmbl5/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.

BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

2. Donald, R. G. and D. S. Roos. "Insertional Mutagenesis and Marker Rescue in a Protozoan Parasite: Cloning of the Uracil Phosphoribosyltransferase Locus from *Toxoplasma gondii*." Proc. Natl. Acad. Sci. USA 92 (1995): 5749-5753. PubMed: 7777580.
3. Pfefferkorn, E. R. and S. E. Borotz. "*Toxoplasma gondii*: Characterization of a Mutant Resistant to 6-Thioxanthine." Exp. Parasitol. 79 (1994): 374-382. PubMed: 7957757.

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E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898