

Product Information Sheet for ARP-2855

Toxoplasma gondii* Selection Plasmid (pminiHXGPRT), Recombinant in *Escherichia coli

Catalog No. ARP-2855

This reagent is the tangible property of the U.S. Government.

Lot No. 95035

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-2855 is an *Escherichia coli* (*E. coli*) DH5α stock containing a pminiHXGPRT selection plasmid. The hypoxanthine-xanthine-guanine phosphoribosyl transferase (HXGPRT) gene coding sequence (isoform I), flanked by 5' and 3' sequences derived from the *Toxoplasma gondii* dihydrofolate reductase-thymidylate synthase (*T. gondii dhfr-ts*) gene cloned into Bluescript pKS+ (Stratagene) polylinker EcoRV-SmaI sites. Both EcoRV-SmaI sites were destroyed during the cloning process. A unique BglII site is located upstream of HXGPRT, and a unique PstI site is downstream.^{1,2}

ARP-2855 is suitable for transformation of HXGPRT-deficient *T. gondii* host strains. Higher transformation frequencies are typically observed using this *dhfr*HXGPRT*dhfr* minigene than with pminCAT/HXGPRT vectors (ARP-2850 and ARP-2851).

Material Provided:

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

Packaging/Storage:

ARP-2855 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* Selection Plasmid (pminiHXGPRT), Recombinant in *Escherichia coli*, ARP-2855, 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.
2. 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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