



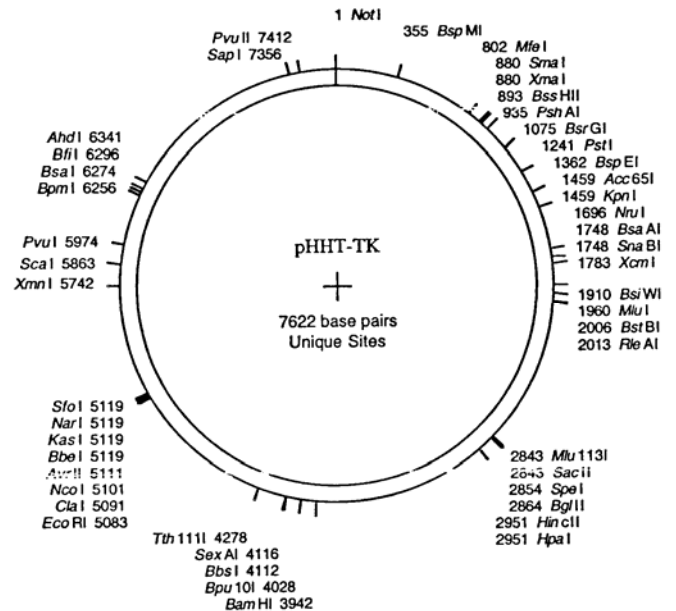
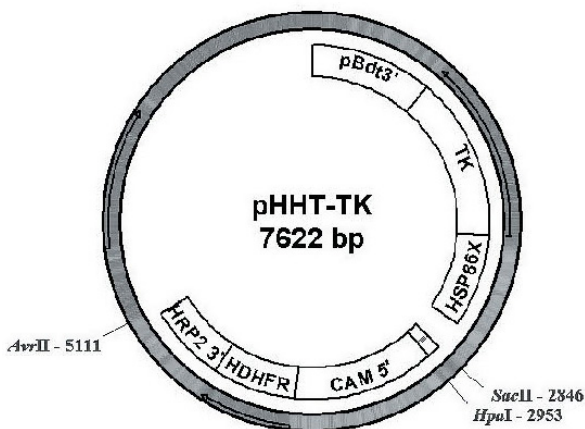
# Product Information Sheet for MRA-448

## Plasmid DNA

**MR4 Number:** MRA-448  
**Clone name:** pHHT-TK  
**Unit size:** 200 ng (10 ng/uL)  
**Form:** Plasmid DNA in TE  
**Storage:** -20°C  
**Genes:** Thymidine kinase and human DHFR  
**Source of inserts:** Herpes simplex, human, *E.coli*,  
*P. falciparum*  
**Parent Vector:** pBluescript  
**Suggested Host:** *E. coli*  
**Total Vector size:** 7622bp  
**Selectable marker:** Ampicillin (*E. coli*), TK and DHFR  
**Application:** *Plasmodium falciparum* transfection  
and gene KO studies by double crossover.  
**Depositors:** M. Duraisingh, T. Triglia and A. Cowman  
**References:** Duraisingh et al. 2002, Int. J. Parasitol. 32:81-89,  
Reed et al. 2000, Nature 403:906-909

**Description:** Amp resistant (*E. coli*); WR99210 Resistant (Plasmodium); ganciclovir sensitive when thymidine kinase gene present, ganciclovir insensitive when thymidine kinase was replaced by double crossover events (Plasmodium).

### Maps:



**Important note:** This reagent was quality tested by MR4 using spectrophotometry and gel analysis. Please contact [malaria@atcc.org](mailto:malaria@atcc.org) for any comment.

### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: Biosafety in Microbiological and Biomedical Laboratories, 4th ed. HHS Publication No. (CDC) 93-8395. U.S. Department of Health and Human Services, Centers for Disease Control and Prevention. Washington DC: U.S. Government Printing Office; 1999. The text is available online at: [www.cdc.gov/od/ohs/biosfty/bml4/bml4toc.htm](http://www.cdc.gov/od/ohs/biosfty/bml4/bml4toc.htm).

### MR4 Replacement Policy

MR4 shall replace reagent if the customer reports it was received damaged. Shipments with problems must be reported within 30 days of receipt. Frozen shipments received thawed or damaged should be reported by the customer to the airline or freight forwarder upon receipt. MR4 should be notified after a claim has been filed to arrange for another shipment.

### Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC® uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC® makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational



# Product Information Sheet for MRA-448

## Plasmid DNA

purposes only. ATCC® does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC® is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC® is not liable for damages arising from the misidentification or misrepresentation of cultures.

### Citations regarding use of this material

**Please remember to reference both MR4 AND THE DEPOSITOR in all publications resulting from the use of this reagent.**

### Example of how to reference MR4 reagents:

In Materials and Methods "*P. falciparum* line Dd2 (MRA-156, MR4, ATCC® Manassas Virginia)...". In the acknowledgment portion: "We thank MR4 for providing us with malaria parasites contributed by (name of depositor)."

### Consider Depositing to the MR4!

The generosity of other researchers made it possible for you to use this reagent. We invite you to share your reagents with the malaria community. One of the missions of MR4 is to facilitate technology transfer. MR4 will acknowledge your contribution in its publications. Contact us for more information.

© ATCC 2012. All rights reserved.

ATCC® is a registered trademark of the American Type Culture Collection.