



## TARGATT™ Plasmid Series

### Product Information

#### Catalog Number

Catalog Number	Name	Size
AST-3042	TARGATT™ 2 (CAG + Poly A)	2 µg
AST-3043	TARGATT™ 3 (No promoter + MCS)	2 µg
AST-3050	TARGATT™ 6.1 (CAG-L4SL-MCS-PolyA)	2 µg
AST-3047	TARGATT™ 7 (PGK-MCS-PolyA)	2 µg
AST-3048	TARGATT™ 8 (PCA-MCS-PolyA)	2 µg
AST-3051	TARGATT™ 9.1 (PCA-L4SL-MCS-PolyA)	2 µg

#### Description

The TARGATT™ vector is designed to deliver your gene of interest to an insertion site in a well-characterized, transcriptionally active locus in the mouse genome <sup>1</sup>. The gene of interest can be cloned into TARGATT™ Plasmids using several enzyme combinations. Microinjection of plasmids into the pronuclei of TARGATT™ Mouse Embryos along with TARGATT™ Integrase mRNA introduces your gene of interest into the attP site in the mouse genome in an irreversible recombination, catalyzed by TARGATT™ integrase.

#### Usage

1. Purchase the [TARGATT™ attP mouse from Charles River Laboratory](#)
2. Clone your gene-of-interest into one of the [TARGATT™ plasmids](#).
3. After mating TARGATT™ attP mice, inject DNA into the pronucleus of embryos, using the [TARGATT™ Transgenic Kit \(AST-1003 and AST-1004\)](#).
4. Use the [TARGATT™ Genotyping kit](#) to confirm transgene integration in the mice.

#### Plasmid Map

Provided upon purchase of plasmids

#### Shipping

Blue ice

#### Storage

Store at -20°C immediately upon receipt. Avoid repeated freeze-and-thaw cycles.

#### Safety Precaution

**PLEASE READ BEFORE HANDLING ANY FROZEN VIALS.** Please wear the appropriate Personal Protection Equipment (lab coat, thermal gloves, safety goggles and a face shield) when handling the cells. Handle the frozen vials with due caution.

#### Limited Use Label License

This product is to be used for internal, non-commercial research purposes for the sole benefit of the purchaser. It may not be used for any other purpose, including, but not limited to diagnostics or therapeutics, and may not be used in humans. This product may not be transferred or sold to third parties, resold, modified for resale, or used to manufacture or develop commercial products or to provide a service of any kind to third parties, including, without limitation, reporting the results of purchaser's activities for a fee or other form of consideration. For information on obtaining commercial research or additional rights, please contact Applied StemCell, Inc.

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## Protocol

### Propagation in E.coli

<b>Suitable Host Strains:</b>	DH5, DH10B, and other general purpose strains.
<b>Selectable Marker</b>	plasmid confers resistance to ampicillin (50 µg/ml) to E.coli hosts. E.coli replication origin: Col E1.
<b>Copy Number</b>	High

## References

1. Tasic B, Hippenmeyer S, Wang C, Gamboa M, Zong H, Chen-Tsai Y, Luo L (2011). Site-specific integrase-mediated transgenesis in mice via pronuclear injection. Proc Natl Acad Sci U S A. [Epub ahead of print]