

Fast, Site-Specific Knock-in Mouse & Rat Model Generation

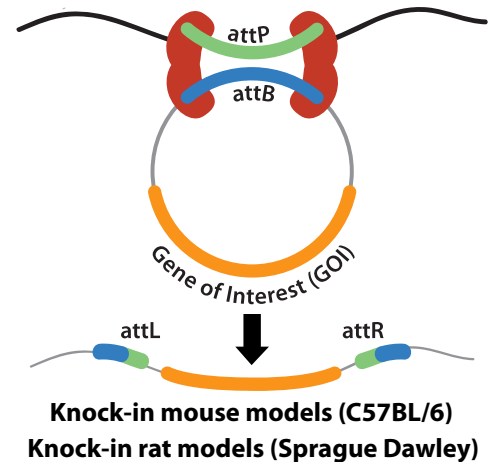
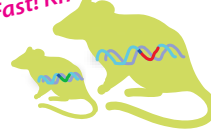
Unique advantages of ASC's proprietary TARGATT™ technology:

- Overcome challenges associated with random integration
- Single copy gene insertion
- Large transgene insertion (up to 22kb)
- Defined location (safe-harbor genomic locus)
- H11, Rosa26 or any custom locus
- Guaranteed gene expression (no gene silencing)
- High integration efficiency (up to 40%)



Read our
TARGATT™ publications:
<https://www.appliedstemcell.com/services/targattm-genome-editing/publications>

Site-Specific!
Fast! Knock-in!



Do-it-Yourself TARGATT™ Products: Mouse Model Generation

Make your own TARGATT™ knock-in mouse by purchasing all necessary products, the TARGATT™ Transgenic Kit, TARGATT™ Plasmids, TARGATT™ Mouse, and the TARGATT™ Genotyping Kit **directly from ASC:**

Step 1. Purchase transgenic kits for injection

TARGATT™ Transgenic Kit:

- AST-1003 Transgenic Kit (5 rounds of microinjections)
- AST-1004 Transgenic Kit (2 rounds of microinjections)

Step 2. Purchase plasmids

TARGATT™ Plasmids:

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

Step 3. Purchase attP mice

TARGATT™ Mouse:

- (Purchase from ASC & shipped by Charles River):
STRAIN CODE #549 (H11, C57BL/6)

Step 4. Confirm sequence with genotyping kit

TARGATT™ Genotyping Kit:

- AST-2005 H11 Mouse Genotyping Kit
- AST-2006 Rosa26 Mouse Genotyping Kit

For C57BL6/Rosa26, FVB/Rosa26, and FVB/H11 TARGATT™ "attP" mouse strains, please inquire:

Full Service: Site-Specific Knock-in: Mouse & Rat Model Generation

With our proprietary TARGATT™ technology, any gene of interest can be inserted at a specific, defined, transcriptionally active locus. We can generate your site-specific knock-in mouse (H11, Rosa 26, or custom locus) or rat (H11 or custom locus) with very high efficiency and fast turnaround time.

Deliverables:

- F1 germline transmission guaranteed
- Mouse: 5-8 months; Rat: 6-9 months
- Detailed milestone & final reports

Available for core research/ animal facilities * Start-up Evaluation Package * Further licensing opportunities