

## Xfect™ mESC Transfection Reagent

**Catalog No.**  
631320

**Amount**  
100 rxns

**Lot Number**  
Specified on product label.

### Description

Xfect mESC Transfection Reagent creates biodegradable nanoparticles that permit superior transfection efficiency of plasmid DNA into stem cells. Transfections can be carried out entirely in the presence of serum.

### Package Contents

- 2 tubes Xfect mESC Polymer (125 µl each)
- 2 tubes Xfect Reaction Buffer (12 ml each)

### Storage Conditions

- Store Xfect mESC Polymer in desiccant at –20°C. Do not thaw until ready to use. Once thawed, store at 4°C for up to 12 months. After each use make sure that the cap is closed tightly and return to the supplied foil pouch containing desiccant.
- Store Xfect Reaction Buffer at –20°C. Do not thaw until ready to use. Once thawed, store Xfect Reaction Buffer at 4°C for up to 12 months.

### Expiration Date

- Specified on product label.

### Shipping Conditions

- Dry ice

### Product Documents

Documents for our products are available for download at [takarabio.com/manuals](http://takarabio.com/manuals)

The following documents apply to this product:

- Xfect mESC Transfection Reagent Protocol-at-a-Glance

### Quality Control Data

#### Transfection Test

E14TG2A mouse embryonic stem cells were transfected with 5 µg of plasmid DNA encoding AcGFP1 according to the protocol outlined in the Xfect mESC Transfection Reagent Protocol-At-A-Glance. 48 hr posttransfection, AcGFP1 expression was assessed by flow cytometry and transfection efficiency (as determined by the percentage of E14TG2A cells expressing AcGFP1) was demonstrated to be >90% of that provided by a reference lot.

#### Sterility Test

There was no evidence of bacterial or fungal growth after inoculation on blood agar, thioglycollate medium, or Sabouraud dextrose agar.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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#### Takara Bio USA, Inc.

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### CATALOG NO.

631320

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### STATEMENT 63

Use of this product is covered by one or more of the following U.S. Patent Nos. and corresponding patent claims outside the U.S.: 6,998,115; 7,427,394. This product is intended for research purposes only. It may not be used for (i) any human or veterinary use, including without limitation therapeutic and prophylactic use, (ii) any clinical use, including without limitation diagnostic use, (iii) screening of chemical and/or biological compounds for the identification of pharmaceutically active agents (including but not limited to screening of small molecules), target validation, preclinical testing services, or drug development. Any use of this product for any of the above mentioned purposes requires a license from the Massachusetts Institute of Technology.

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