

## MSCV Vector Set

Catalog No.	Amount	Lot Number
631461 (Not sold separately) Sold as a part of 634401	Each	Specified on product label.

### Description

The MSCV (Murine Stem Cell Virus) Vector Set contains 3 vectors that are optimized for the introduction and expression of genes in pluripotent cell lines, including murine or human hematopoietic, embryonic stem (ES), and embryonal carcinoma (EC) cells. They can also be used effectively with any mammalian cell line. The pMSCVneo, pMSCVhyg, and pMSCVpuro vectors contain a gene coding resistance to neomycin, hygromycin, or puromycin, respectively. After your gene of interest has been cloned into one of the vectors, the construct can be packaged into retroviral particles using the Retropack™ PT67 Packaging Cell Line.

### Package Contents

- 20 µg pMSCVneo Vector (500 ng/µl)
- 20 µg pMSCVhyg Vector (500 ng/µl)
- 20 µg pMSCVpuro Vector (500 ng/µl)
- 100 µl 5' MSCV Seq/PCR Primers (20 µM)
- 100 µl 3' MSCV Seq/PCR Primers (20 µM)

### Storage Conditions

- Store plasmids and primers at  $-20^{\circ}\text{C}$ .
- Spin briefly to recover contents.
- Avoid repeated freeze/thaw cycles.

### Expiration Date

- Specified on product label.

### Storage Buffer

- 10 mM Tris-HCl (pH 8.0), 1 mM EDTA (pH 8.0)

### 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:

- Retroviral Gene Transfer and Expression User Manual
- MSCV Vector Information

# Certificate of Analysis

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## Propogation in *E. coli*

- Recommended host strain: Stellar™ Competent Cells (Cat. No. 636763).
- Selectable marker: Plasmid confers resistance to ampicillin (50 µg/ml) in *E. coli* hosts.
- *E. coli* replication origin: pUC

## Quality Control Data

### Plasmid Identity & Purity

- Digestion with the indicated restriction enzymes produced fragments of the indicated sizes on a 0.8% agarose/EtBr gel:

<b>Vector</b>	<b>Enzymes</b>	<b>Fragments</b>
pMSCVneo Vector	EcoRI & SalI	1.4 & 5.1 kb
pMSCVhyg Vector	EcoRI & SalI	0.8, 1.1, & 5.0 kb
pMSCVpuro Vector	EcoRI & ClaI	1.2 & 5.1 kb

- Vector identity was confirmed by sequencing.
- $A_{260}/A_{280}$ : 1.8–2.0

### Primer Identity & Purity

- The primers were tested by sequencing using a positive control template.

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

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### CATALOG NO.

631461

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### STATEMENT 13

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