

## Retro-X™ Universal Packaging Vector Set

**Catalog No.**  
631457

**Amount**  
Each

**Lot Number**  
Specified on product label.

### Description

Vector set for use with the GP2-293 packaging cell line. Includes 4 different retroviral envelope plasmids and one control vector. The envelope plasmids are pVSV-G (pantropic), pAmpho (amphotropic), pEco (ecotropic) and p10A1 (dualtropic). The pQCLIN Retroviral Vector can be used as a positive control to constitutively express  $\beta$ -galactosidase in transduced mammalian cells.

### Package Contents

- 20  $\mu$ g p10A1 Vector (0.5  $\mu$ g/ $\mu$ l)
- 20  $\mu$ g pAmpho Vector (0.5  $\mu$ g/ $\mu$ l)
- 20  $\mu$ g pEco Vector (0.5  $\mu$ g/ $\mu$ l)
- 20  $\mu$ g pVSV-G Vector (0.5  $\mu$ g/ $\mu$ l)
- 20  $\mu$ g pQCLIN Retroviral Vector (0.5  $\mu$ g/ $\mu$ l)

### 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:

- pVSV-G vector information
- p10A1 vector information
- pEco Vector Information
- pAmpho vector information

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#### Takara Bio USA, Inc.

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## Quality Control Data

### Plasmid Identity & Purity

- The identity of each plasmid was verified by electrophoresis on an agarose/EtBr gel after digestion with the indicated enzymes. The purity of each plasmid was also checked by determining the  $A_{260}/A_{280}$ .

<b>Vector</b>	<b>Enzyme</b>	<b>Fragment size</b>
p10A1	Sall	6.7 kb
	XbaI	6.7 kb
pAmpho	Sall	6.7 kb
	AvaI	6.6 kb & 0.2 kb
pEco	Sall	6.8 kb
	BamHI	6.0 kb & 0.8 kb
pVSV-G	BamHI	4.8 & 1.7 kb
	ScaI	4.3 kb & 2.2 kb
	Sall	6.5 kb
pQCLIN	StuI	10.8 kb
	EcoRV	6.9 & 3.8 kb

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

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

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### NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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### STATEMENT 8

For Research Use Only, Not for Use in Humans.

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