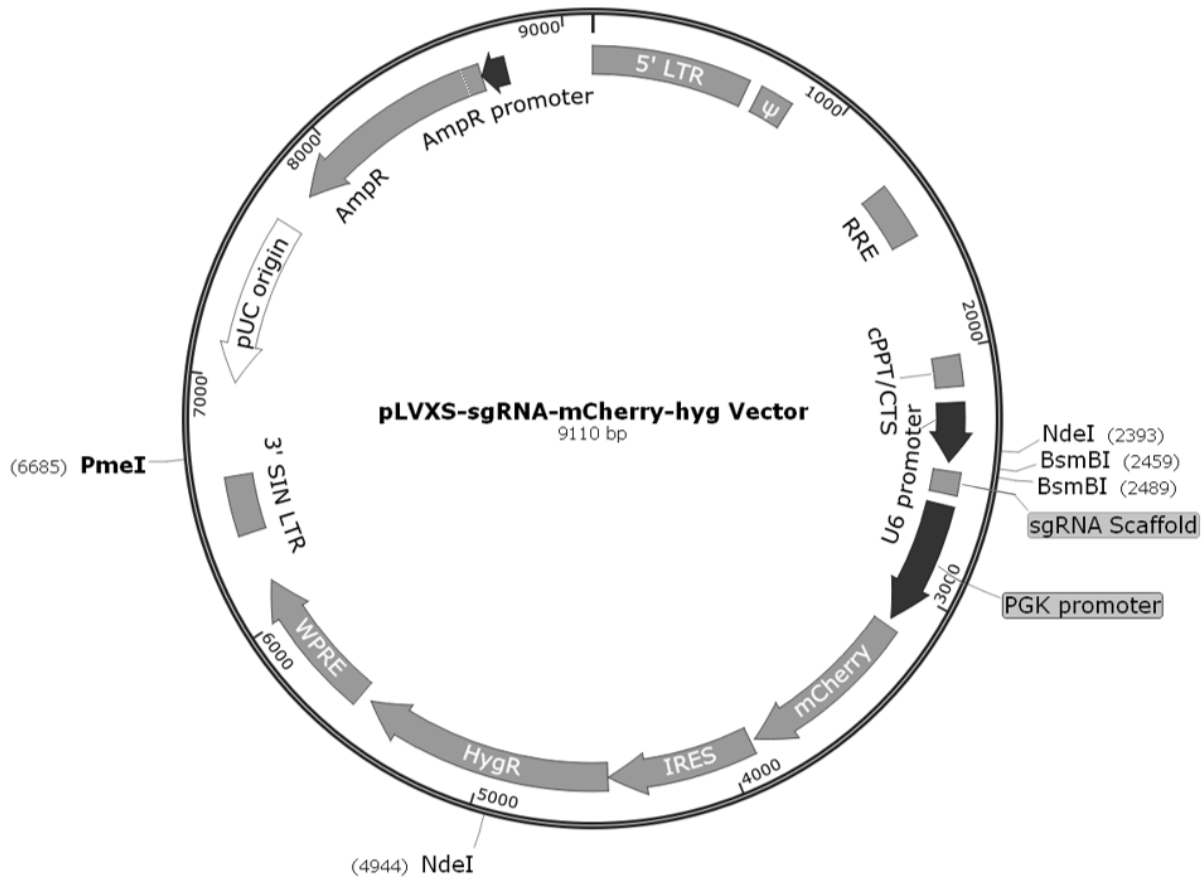


## pLVXS-sgRNA-mCherry-hyg Vector

### Catalog No.

632649 (Not sold separately)

Sold as a part of 632646



**Figure 1. Map of pLVX-sgRNA-mCherry-hyg Vector (top) and the insertion site for your sgRNA sequence (bottom).**

### Takara Bio USA, Inc.

1290 Terra Bella Avenue, Mountain View, CA 94043, USA

U.S. Technical Support: [techUS@takarabio.com](mailto:techUS@takarabio.com)

United States/Canada  
800.662.2566  
(120717)

Asia Pacific  
+1.650.919.7300

Europe  
+33.(0)1.3904.6880

Japan  
+81.(0)77.565.6999

## Location of Features

- 5' LTR (5' long terminal repeat): 1–635
- $\Psi$  (packaging signal): 685–822
- RRE (Rev-response element): 1,303–1,536
- cPPT/CTS (central polypurine tract and central termination sequence of HIV-1): 2,028–2,151
- $P_{U6}$  (U6 promoter): 2,215–2,455
- P5 primer binding sequence: 2,443–2,464
- sgRNA Scaffold: 2,491–2,582
- P7 primer binding sequence: 2,593–2,623
- $P_{PGK}$  (phosphoglycerate kinase promoter): 2,628–3,131
- mCherry (red fluorescent protein): 3,166–3,876
- IRES (encephalomyocarditis virus internal ribosome entry site): 3,895–4,493
- Hyg<sup>R</sup> (hygromycin resistance gene): 4,494–5,519
- WPRE (woodchuck hepatitis virus posttranscriptional regulatory element): 5,567–6,158
- 3' SIN LTR (3' self-inactivating long terminal repeat): 6,366–6,602
- ori (high-copy-number ColE1/pMB1/pBR322/pUC origin of replication): 6,978–7,651 (complementary)
- Amp<sup>R</sup> (ampicillin resistance gene): 7,796–8,656 (complementary)
- $P_{AMP}$ <sup>R</sup> (promoter for ampicillin resistance): 8,657–8,761 (complementary)

**Note:** The 35-base sequence between the two BsmBI sites will be replaced by your guide sequence. It is not meant as a control.

---

## Notice to Purchaser

Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, *in vitro* diagnostic purposes, therapeutics, or in humans. 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 prior written approval of Takara Bio USA, Inc.

Your use of this product is also subject to compliance with any applicable licensing requirements described on the product's web page at [takarabio.com](http://takarabio.com). It is your responsibility to review, understand and adhere to any restrictions imposed by such statements.

**©2017 Takara Bio Inc. All Rights Reserved.**

All trademarks are the property of Takara Bio Inc. or its affiliate(s) in the U.S. and/or other countries or their respective owners. Certain trademarks may not be registered in all jurisdictions. Additional product, intellectual property, and restricted use information is available at [takarabio.com](http://takarabio.com).

This document has been reviewed and approved by the Quality Department.