

Certificate of Analysis

pLVXS-sgRNA-mCherry-hyg Vector

Catalog No.

632649 (Not sold separately)

Sold as a part of 632646

Amount

10 µl

Lot Number

Specified on product label

Description

The pLVXS-sgRNA-mCherry-hyg Vector is a self-inactivating lentiviral vector used to generate high-titer lentivirus for efficient delivery of the pooled genome-wide sgRNA library in combination with the Guide-it™ CRISPR Genome-Wide sgRNA Library System. This vector contains both mCherry and hygromycin markers expressed from an IRES-linked bicistronic expression cassette. The cloning site features a BsmBI restriction site to enable insertion of candidate single guide RNAs (sgRNAs) for downstream assays. The vector is used to confirm hits generated during sgRNA library screens.

Package Contents

- 10 µl pLVXS-sgRNA-mCherry-hyg Vector (0.5 µg/µl)

Storage Conditions

- Store plasmids at –20°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

The following documents apply to this product:

- Guide-it CRISPR Genome-Wide sgRNA Library System User Manual
- pLVXS-sgRNA-mCherry-hyg Vector Map

Propagation in *E. coli*

- Recommended host strain: Stellar™ Competent Cells (Cat. No. 636763)
- Selectable marker: Plasmids confer resistance to ampicillin (100 µg/ml) in *E. coli* hosts.
- *E. coli* replication origin: pUC

Takara Bio USA, Inc.

2560 Orchard Parkway, San Jose, CA 95131, USA

U.S. Technical Support: technical_support@takarabio.comUnited States/Canada
800.662.2566
(122122)Asia Pacific
+1.650.919.7300Europe
+33.(0)1.3904.6880Japan
+81.(0)77.565.6999

Certificate of Analysis

pLVXS-sgRNA-mCherry-hyg Vector (Not sold separately)

Cat. No. 632649

Sold as a part of 632646

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:

Vector	Enzyme	Fragments
pLVXS-sgRNA-mCherry-hyg	PmeI	9.1 kb
	NdeI	6.6 kb, 2.6 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.

pLVXS-sgRNA-mCherry-hyg Vector

CATALOG NO.

632649

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.

Your use of this product is also subject to compliance with the licensing requirements, listed below if applicable, and described on the product's web page at <http://www.takarabio.com>. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

STATEMENT 391

LIMITED USE LABEL LICENSE: RESEARCH USE ONLY Notice to Purchaser: This product is the subject to a license granted to Takara Bio USA, Inc. and its Affiliates from Caribou Biosciences, Inc., and this product is transferred to the end-user purchaser ("Purchaser") subject to a "Limited Use Label License" conveying to the Purchaser a limited, non-transferable right to use the product, solely as provided to Purchaser, together with (i) progeny or derivatives of the product generated by the Purchaser (including but not limited to cells), and (ii) biological material extracted or derived from the product or its corresponding progeny or derivatives (including but not limited to cells) (collectively, the product, and (i) and (ii) are referred to as ("Material")) only to perform internal research for the sole benefit of the Purchaser. The Purchaser cannot sell or otherwise transfer Material to a third party or otherwise use the Material for any Excluded Use. "Excluded Use" means any and all: (a) commercial activity including, but not limited to, any use in manufacturing (including but not limited to cell line development for purposes of bioproduction), product testing, or quality control; (b) preclinical or clinical testing or other activity directed toward the submission of data to the U.S. Food and Drug Administration, or any other regulatory agency in any country or jurisdiction where the active agent in such studies comprises the Material; (c) use to provide a service, information, or data to a third party; (d) use for human or animal therapeutic, diagnostic, or prophylactic purposes or as a product for therapeutics, diagnostics, or prophylaxis; (e) activity in an agricultural field trial or any activity directed toward the submission of data to the U.S. Department of Agriculture or any other agriculture regulatory agency; (f) high throughput screening drug discovery purposes (i.e., the screening of more than 10,000 experiments per day) as well as scale-up production activities for commercialization; (g) modification of human germline, including editing of human embryo genomes (with the sole exception of editing human embryonic stem (ES) cell lines for research purposes) or reproductive cells; (h) self-editing; and/or (i) stimulation of biased inheritance of a particular gene or trait or set of genes or traits ("gene drive"). It is the Purchaser's responsibility to use the Material in accordance with all applicable laws and regulations. For information on obtaining additional rights, including commercial rights, please contact licensing@cariboubio.com or Caribou Biosciences, Inc., 2929 7th Street, Suite 105, Berkeley, CA 94710 USA, Attn: Licensing.

Takara Bio USA, Inc.

2560 Orchard Parkway, San Jose, CA 95131, USA

U.S. Technical Support: technical_support@takarabio.com

United States/Canada

800.662.2566

Asia Pacific

+1.650.919.7300

Europe

+33.(0)1.3904.6880

Japan

+81.(0)77.565.6999

5/30/2025

STATEMENT 396

Sigma-Aldrich CRISPR Use License Agreement This Product and its use are the subject of one or more of the following issued patents and patent applications: Australia Patent Nos. 2013355214; 2017204031; and 2018229489; Canada Patent Nos. 2,891,347 and 2,977,152; China Patent No. CN105142669; European Patent Nos. EP 2 928 496 B1; EP 3 138 910 B1, 3 138 911 B1, EP 3 138 912 B1, EP 3 360 964 B1, EP 3 363 902 B1; Israel Patent No. IL238856; Singapore Patent No. 11201503824S; South Korea Patent Nos. 10-1844123 and 10-2006880; and U.S. Patent Application Serial Nos. 15/188,911; 15/188,924; 15/188,927; 15/188,931; and 15/456,204 (the “Patent Rights”). The purchase of this Product conveys to you (the “Buyer”) the NON-TRANSFERABLE right to use the Product for Licensed Research Use (see definition below) subject to the conditions set out in this License Agreement.

1. “Licensed Research Use” means any use for research purposes, except: (i) Buyer may not sell or otherwise transfer the Product (including without limitation any material that contains the Product in whole or part) or any Related Material to any other third party (except that you may transfer the Product, or any Related Material to a bona fide collaborator or contract research organization), or use the Products or any Related Material to perform services for the benefit of any other third party; (ii) Buyer may use only the purchased amount of the Product and components of the Product, and shall use any Related Material, only for your internal research within the Field, and not for any Commercial Purposes; (iii) Buyer shall use the Product and any Related Material in compliance with all applicable laws and regulations, including without limitation applicable human health and animal welfare laws and regulations; and (iv) the Buyer shall indemnify, defend, and hold harmless SIGMA and their current and former directors, officers, employees and agents, and their respective successors, heirs and assigns (the “Indemnities”) against any liability, damage, loss, or expense (including without limitation reasonable attorneys’ fees and expenses) incurred by or imposed upon any of the Indemnitees in connection with any claims, suits, investigations, actions, demands or judgments arising out of or related to the exercise of any rights granted to the Buyer hereunder or any breach of this License Agreement by such Buyer. 2. For purposes of Section 1 above, the following definitions shall apply: “Commercial Purposes” means (a) the practice, performance or provision of any method, process or service, or (b) the manufacture, sale, use, distribution, disposition or importing of any product, in each case (a) or (b) for consideration, or on any other commercial basis. “Field” means use as a research tool for research purposes; provided, however, that notwithstanding the foregoing, the Field shall expressly exclude (a) any in vivo and ex vivo human or clinical use, including, without limitation, any administration into humans or any diagnostic or prognostic use, (b) the creation of transgenic rodent models and/or derivatives thereof (including, but not limited to, rodents’ cells and rodents’ organs) by for-profit entities, (c) any in vivo veterinary or livestock use, or non-research agricultural use, or (d) use as a testing service, therapeutic or diagnostic for humans or animals. “Related Materials” means any progeny, modification or derivative of a Product. 3. Your right to use the Product will terminate immediately if you fail to comply with these terms and conditions. You shall, upon such termination of your rights, destroy all Product, Related Materials, and components thereof in your control, and notify SIGMA of such in writing. For information on purchasing a license to this Product for purposes other than Licensed Research Use, contact your local SIGMA sales representative, or call +1 800-325-3010.

TRADEMARKS:

©2025 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.

Takara Bio USA, Inc.

2560 Orchard Parkway, San Jose, CA 95131, USA

U.S. Technical Support: technical_support@takarabio.com

United States/Canada

800.662.2566

Asia Pacific

+1.650.919.7300

Europe

+33.(0)1.3904.6880

Japan

+81.(0)77.565.6999

5/30/2025