

Product Certificate

Product Name: pRSG20-U6-sg-CMV-TagRFP-2A-Puro (linearized)
Catalog #: SVCRU620-L
Size: 500 ng; 10 ng/μl, 50 μl (50 reactions)
Shipping Conditions: Blue Ice
Shipment Contents: Linearized vector — Store at -20°C
Shelf Life: 2 years from date of receipt

Product Details:

The pRSG20-U6-sg-CMV-TagRFP-2A-Puro sgRNA Cloning and Expression Vector is a human immunodeficiency virus (HIV) lentiviral vector with a constitutive U6 promoter to express sgRNA constructs and CMV promoter to express both TagRFP and puromycin-resistance gene. The vector was linearized by restriction digestion using Bpil (BbsI), agarose gel purified, and is ready for cloning sgRNA template oligos (guide + tracrRNA scaffold).

The pRSG20 Vector has the functional elements necessary for packaging into viral particles (when used with Collecta's Ready-to-Use Packaging Mix, Cat.# CPCP-K2A, or most other second or third generation lentiviral packaging mixes), transduction, stable integration into genomic DNA, and expression of sgRNA constructs in target cells. 500 ng of Bpil (BbsI) linearized vector is provided, sufficient for 50 ligation reactions.

Catalog #	Description
SVCRU620-L	CRISPR sgRNA Cloning and Expression Vector pRSG20-U6-sg-CMV-TagRFP-2A-Puro (linearized) 500 ng; 10 ng/μl, 50 μl (50 reactions)

Quality Control:

1 μl of a control sgRNA template (20 μM each strand) was phosphorylated and annealed as described in the manual. 0.5 μl of phosphorylated, annealed control sgRNA template (0.2 μM), consisting of guide + tracrRNA scaffold, was ligated into 10 ng of pRSG20 vector at 16°C for 1 hour. After transformation, 90% of the clones contain control sgRNA insert based on the result of insert amplification with forward and reverse PCR primers.

Lot #s: 190327025

Additional Product Information can be found on the Collecta website:

General Product Description: <https://www.collecta.com/products-3/crispr-products/crispr-cloning-vectors-linearized/>

User Manual: <https://www.collecta.com/product-manuals-and-certificates/>

Vector Info (Sequence, cassette, etc): <https://www.collecta.com/vector-information/>

Collecta Contacts:

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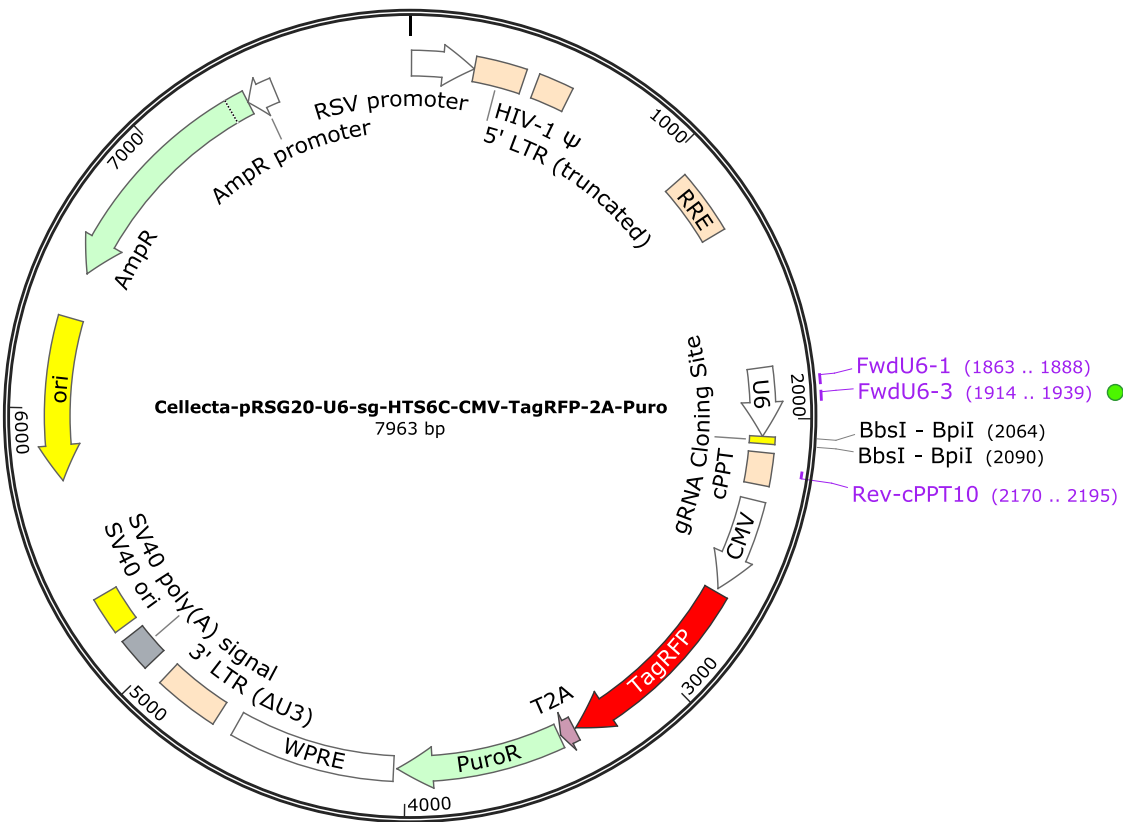
Orders: orders@collecta.com

For **Local Distributors** outside North America see <https://www.cellecta.com/company/distributors/>.

Appendix

1. Vector Map

pRSG20-U6-sg-CMV-TagRFP-2A-Puro



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