

## Product Analysis Certificate

Control Lentiviral Non-targeting shRNA Construct in pRSI16 (Plasmid)  
Cat.# SHCTL-NT-PX  
Lot# 16012901



### Control Lentiviral Non-targeting shRNA Construct

**Shipment Contents:** Control Lentiviral Non-targeting shRNA Construct in pRSI16 (Plasmid)  
- Store at -20°C

#### Description:

The Lentiviral Non-targeting shRNA Construct expresses a non-targeting shRNA.

The plasmid shRNA construct can be packaged into VSV-G pseudotyped viral particles using most commercially-available second or third-generation packaging mixes or Cellecta's second-generation psPAX2/pMD2.G packaging plasmid mix (Ready-to-use Packaging Plasmid Mix, Cat.# CPCP-K2A, 250 µg).

**Biosafety Level:** BSL-2

**Storage:** -20°C

**Shelf Life:** 2 years from date of receipt

**Shipping Conditions:** Room Temperature, Blue Ice, or Dry Ice

#### Product Information (Cellecta Website):

User Manual: <https://www.cellecta.com/resources/product-manuals-and-certificates/>  
Vector Info (Sequence, cassette, etc): <https://www.cellecta.com/resources/vector-information/>

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### Contents:

#	Catalog #	Description
1	SHCTL-NT-PX	<b>Control Lentiviral Non-targeting shRNA Expression Construct (Plasmid)</b> In pRSI16-U6-sh-UbiC-TagRFP-2A-Puro <u>Plasmid, &gt;25 µg:</u> <b>25 µg, 0.5 µg/µl (50 µl)</b> Lot# 16012901; Store at -20°C
	Target Sequence:	CAACAAGATGAAGAGCACCAA
	Insert (Hairpin) Seq.:	CAACAAGATGAAGAGCACCAA

### Design of Collecta shRNA Constructs:

ACCGG-21mer (**sense**+mismatch(es)\*)-GTTAATATTCATAGC (**loop**)-21mer (**antisense**)-TTTT

\* **The sense portion of the shRNA may contain specific mismatches introduced by Collecta.** We incorporate some mismatches in our library hairpins to improve stability and representation in a pooled-screening format. Although we have not observed any significant differences in efficacy between perfectly homologous shRNA sequences and those with 1-2 non-sequential mismatches, we typically use the same hairpin design for individual constructs to maintain sequence consistency with our functionally active library designs.

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