

Product Analysis Certificate

Control Lentiviral Luc shRNA Construct in pRSI16 (Packaged)
Cat.# CLVP-V
Lot# 15121084



Control Lentiviral Luc shRNA Construct

Shipment Contents: Control Lentiviral Luc shRNA Construct in pRSI16 (Packaged)
- Store at -80°C

Description:

Cellecta's shRNA constructs are lentiviral vectors expressing short-hairpin RNA for knockdown of target mRNA transcripts. The use of our proprietary sh15121084RNA design algorithm and database of validated shRNAs results in a high percentage of functional sequences, typically at least 70% knockdown efficiency for approximately 65% of shRNA constructs. Results may vary between different cell types.

The Luciferase lentiviral shRNA construct expresses an shRNA sequence that targets Firefly Luciferase, and it has no significant homology to any mammalian transcript.

The titer of packaged pRSI16 constructs provided by Cellecta is functionally determined by transduction of 293T cells and FACS of RFP-positive cells.

Biosafety Level: BSL-2

Storage: -80°C

Shelf Life: 1 year from date of receipt

Shipping Conditions: Dry Ice

Product Information (Cellecta Website):

User Manual: <http://www.cellecta.com/resources/protocols/>
Vector Info (Sequence, cassette, etc): <http://www.cellecta.com/resources/vectors/>

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Contents:

| # | Catalog # | Description |
|---|------------------------|---|
| 1 | CLVP-V | Control Lentiviral NT shRNA Expression Construct (Packaged) pRSI16-U6-shLuc-UbiC-TagRFP-2A-Puro Packaged, $>1 \times 10^7$ TU: 2.63×10^7 TU , 1.05×10^8 TU/ml (250 μ l total: 250 μ l \times 1 vial) Lot# 15121084; Store at -80°C |
| | Target Sequence: | CGCTGAGTACTTCGAAATGTC |
| | Insert (Hairpin) Seq.: | ACCGGCGCTGAGTACTTTGAAATGTTGTTAATATTCATAGCGACATTTCAAGTACTCAGCGT TTT |
| | Sequencing QC: | AAAANTTCTTGGGTAGTTTGCAGTTTTAAATTATGTTTTAAAATGGACTATCATATGCTTACCG TAAC TTGAAAGTATTTTCGATTTCTTGGCTTTATATATCTTGTGGAAAGGACGAAACACCGGCG CTGAGTACTTTGAAATGTTGTTAATATTCATAGCGACATTTCAAGTACTCAGCGTTTTTTCGCG GACTGTAGAACTCTGAACCTCTGNG |
| | Sequencing Primer: | CCTAGTACAAAATACGTGACGTAGAA (U6-2) |

Design of Cellecta shRNA Constructs:

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

* **The sense portion of the shRNA may contain specific mismatches introduced by Cellecta.** 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. **Note that this design may not apply in the case of customer-requested designs.**

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