

Product Analysis Certificate

Control Lentiviral NT shRNA Construct in pRSI16 (Packaged)
Cat. # SVSHU616-NT-VS
Lot# 13120922



Control Lentiviral NT shRNA Construct

Shipment Contents: Control Lentiviral NT 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 shRNA 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 non-targeting (NT) lentiviral shRNA construct expresses an shRNA sequence with 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	SVSHU616-NT-VS	Control Lentiviral NT shRNA Expression Construct (Packaged) pRSI16-U6-shNT-UbiC-TagRFP-2A-Puro RefSeq# n/a Packaged, $>1 \times 10^7$ TU: 1.69 $\times 10^7$ TU , 6.74 $\times 10^7$ TU/ml (250 μ l total: 250 μ l \times 1 vial) Lot# 13120922; Store at -80°C
	Target Sequence:	CAACAAGATGAAGACACCAA
	Insert (Hairpin) Seq.:	ACCGCAACAAGATGGAGAGCACTAAGTTAATATTCATAGCTTGGTGCTCTTCATCTTGTGTTTT
	Sequencing QC:	NANNNTNTTGGGTAGTTTGCAGTTTTAAATATATGTTTTAAATGGACTATCATATGCTTACCGTAACTGAAAGTATTTTCGATTTCTTGGCTTTATATATCTTTGTGAAAGGACGAAACACCGGCAACAAGATGGAGAGCAC TAAGTTAATATTCATAGCTTGGTGCTCTTCATCTTGTGTTTTTTCGGACTGTAGAATCTGAACCTCGAGC AATTTAAAAGAAAAGGGGGGATTGGGGGTACAGTGCAGGGGAAAGAATAGTAGACATAAATAGCAACAGACA TACAACATAAAGAATTACAAAACAAATTACAAAATTCAAAATTTCTGCGTTGTTGTCGGTGCTCGTTCTC TGCTTTTCACGCTACTGAATTCATCACCGTTCTTCGAAGGCCTCCGCGCCGGTTTTGGCGCCTCCGCGG GCGCCCCCTCCTCAGGCGAGCGCTGCCACGTCAGACGAAGGGCGCAGCGAGCGTCCGTATCCTCCGCC GGACGCTCAGGACAGCGGCCCGCTGCTCATAAGACTCGGCTTAGAACCCAGTATCAGCAGAAGGACATTT TAGGACGGGACTTGGGTGACTCTAGGGCACTGGTTTTCTTTCCAGAGAGCGGAACAGGCGAGGAAAAGTAGT CCTTCTCGGCGATTCTGCGGAGGATCTCCGTGGGGCGGTGAACCGGATGATTATATAAGGACGCGCCGG GTGTGGCACAGCTAGTTTCNGTTCGAGCCGGGATTTGGGTGCGGTTCTGTTTGTGGATCGCTGTGATCGT CACTTGGTCTACACGCCACCATGGTGTCTAAAGGACGAAGATCTGATTAANGAGAACATGCACATGAACCTG TACATGGAAGGGGANCGTGACACNACCNNCCAGTCAAGTGCACNTNCGAGGGCNAAGGCAAGTCCCTACGA AGNGCAACCAGACCATGAGATCANNTGTCTNNGGTCGGNCNCCNCTCGCNTTCGAAATCTGN
	Sequencing Primer:	CCTAGTACAAAATACGTGACGTAGAA (U6-2)

Design of Cellecta shRNA Constructs:

ACCG-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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