

Product Analysis Certificate

Control Lentiviral PSMA1 shRNA Construct in pRSI16 (Packaged)
Cat.# SVSHU616-PSMA1-VS
Lot# 14020404



Control Lentiviral PSMA1 shRNA Construct

Shipment Contents: Control Lentiviral PSMA1 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 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-PSMA1-VS	Control Lentiviral PSMA1 shRNA Expression Construct (Packaged) pRSI16-U6-shPSMA1-UbiC-TagRFP-2A-Puro RefSeq# n/a <u>Packaged, >1 x 10⁷ TU:</u> 1.96 x 10⁷ TU , 3.92 x 10 ⁷ TU/ml (500 µl total: 250 µl x 2 vials) Lot# 14020404; Store at -80°C
	Target Sequence:	GAAAGGGTCTGTATAATCATT
	Insert (Hairpin) Seq.:	ACCGGAAAAGGGTCTGTATAATCATTGTTAATATTCATAGCAATGATTATACAGACCCCTTCTTTT
	Sequencing QC:	NNNNNTTCTTGGGTAGTTTGCAGTTTAAAAATTATGTTTAAAAATGGAATCATATGCTTACCGTAACTG AAAGTATTTTCGATTCTTGGCTTTATATACTTTGTGAAAGGACGAAACACCGGAAAAGGGTCTGTATAATC ATTGTTAATATTCATAGCAATGATTATACAGACCCCTTCTTTTTCGGACTGTAGAACTCTGAACCTCGAGC AATTTAAAAGAAAAGGGGGGATTGGGGGTACAGTGCAGGGGAAAGAATAGTAGACATAATAGCAACAGACA TACAAACTAAAGAATTACAAAAACAAATTACAAAAATTCAAAAATTTCTGCGTTGTTGTCGGTGCCTGTTCTC TGCTCTTACGCTACTGAATTCATCACCGGTTCTTCGAAGGCCCTCCGCGCCGGGTTTTGGCGCCTCCCGCGG GCGCCCCCTCCTCACGGCAGCGCTGCCACGTCAGACGAAGGGCGCAGCGAGCGTCTGATCCTTCCGCCC GGACGCTCAGGACAGCGGCCCGCTGCTCATAAGACTCGGCCTTAGAACCCAGTATCAGCAGAAGGACATTT TAGGACGGGACTTGGGTGACTCTAGGGCACTGGTTTTCTTCCAGAGAGCGGAACAGGCAGGAAAAGTAGT CCCTTCTCGGCGATTCTGCGGAGGGATCTCCGTGGGGCGGTGAACCCGATGATTATATAAGGACGCGCCGG GTGTGGCAGACTAGTTTCNGTCGACGCCGGGATTTGGGTCGCGGTTCTGTTTGTGGATCGCTGTGATCGT CACTTGGTCTACACGCCACCATGGTGTCTAAAGGACGAAGA
	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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