OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TL318853

SNRPN Human shRNA Plasmid Kit (Locus ID 6638)

Product data:

Product Type:	shRNA Plasmids
Product Name:	SNRPN Human shRNA Plasmid Kit (Locus ID 6638)
Locus ID:	6638
Synonyms:	HCERN3; PWCR; PWS; RT-LI; SM-D; sm-N; SMN; SNRNP-N; SNURF-SNRPN
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	SNRPN - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 6638). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	BC065369, NM_003097, NM_022805, NM_022806, NM_022807, NM_022808, NM_001349454, NM_001349455, NM_001349456, NM_001349457, NM_001349458, NM_001349459, NM_001349460, NM_001349461, NM_001349462, NM_001349463, NM_001349464, NM_001349465, NM_022806.1, NM_022806.2, NM_022806.3, NM_022806.4, NM_022808.1, NM_022808.2, NM_022808.3, NM_022808.4, NM_003097.1, NM_003097.2, NM_003097.3, NM_003097.4, NM_003097.5, NM_022805.1, NM_022805.2, NM_022805.3, NM_022805.4, NM_022807.1, NM_022807.2, NM_022807.3, NM_022807.4, BC003180, BC000611, BC016168, BC018809, BC024777, BC025178, BC035280, BC080646, BC113069, NM_022808.5, NM_003097.6, NM_022807.5, NM_022805.5, NM_022806.5
UniProt ID:	P63162

View online »

Summary:

This gene is located within the Prader-Willi Syndrome critical region on chromosome 15 and is imprinted and expressed from the paternal allele. It encodes a component of the small nuclear ribonucleoprotein complex, which functions in pre-mRNA processing and may contribute to tissue-specific alternative splicing. Alternative promoter use and alternative splicing result in a multitude of transcript variants encoding the same protein. Transcript variants that initiate at the CpG island-associated imprinting center may be bicistronic and also encode the SNRPN upstream reading frame protein (SNURF) from an upstream open reading frame. In addition, long spliced transcripts for small nucleolar RNA host gene 14 (SNHG14) may originate from the promoters at this locus and share exons with this gene. Alterations in this region are associated with parental imprint switch failure, which may cause Angelman syndrome or Prader-Willi syndrome. [provided by RefSeq, Mar 2017]

shRNA Design:

These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).