

Product datasheet for RC220140

SNRPN (NM_003097) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SNRPN (NM_003097) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SNRPN
Synonyms:	HCERN3; PWCR; PWS; RT-LI; SM-D; sm-N; SMN; SNRNP-N; SNURF-SNRPN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220140 representing NM_003097 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGTTGGCAAGAGTAGCAAGATGCTGCAGCACATTGACTATAGAATGAGATGTATCCTGCAAGATG
GCCGAATCTTCATTGGCACCTTTAAGGCTTTTGACAAGCATATGAATTTGATCCTCTGTGATTGTGATGA
GTTTCAGAAAGATCAAGCCAAAGAATGCGAAGCAACCAGAGCGTGAAGAAAAGCGGTTTTGGGTCTGGT
TTGCTGCGTGGGAGAATTGGTATCCATGACTGTGGAGGGCCACCCCAAAGATACTGGCATTGCTC
GGGTACCATTGCTGGAGCTGCTGGAGGCCCTGGGTTGGTAGGGCAGCTGGTAGAGGAGTACCAGCTGG
TGTGCCAATCCCAAGGCCCTGCTGGATTGGCAGGCCCTGTCCGAGGAGTTGGGGACCATCCAGCAG
GTAATGACTCCACAGGAAGAGGCACTGTAGCAGCTGCTGCTGTTGCTGCGACTGCCAGTATTGCTGGAG
CCCAACACAGTACCACCAGGACGGGGCACTCCGCCCCACCCGTCGGCAGAGCAACCCACCTCCAGG
CATTATGGCTCCTCCACCTGGTATGAGACCACCCATGGGCCCAATTTGGGCTTCCCCCTGCTCGAGGG
ACGCCAATAGGCATGCCGCTCCGGAATGAGACCCCTCCACAGGCATTAGAGGTCCACCTCCCCAG
GAATGCGTCCACCAAGACCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC220140 representing NM_003097
 Red=Cloning site Green=Tags(s)

MTVGKSSKMLQHIDYRMCILQDGRIFIGTFKAFDKHMNLI LDCDFR KIKPKNAKQPEREEKRVLGLV
 LLRGENLVSM TVEGPPPKDTGIARVPLAGAAGGPGVGRAAGRGVPAGVPIQAPAGLAGPVRGVGGPSQQ
 VMTPQGRGTVA AAAAAAASIAGAPTQYPPGRGT PPPVGRATPPP GIMAPPPGMRPPMGPP IGLPPARG
 TPIGMPPPGMRPPPPGIRGPPPPGMRPPRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6037_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_003097

ORF Size: 720 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_003097.6](#)

RefSeq Size: 1326 bp

RefSeq ORF: 723 bp

Locus ID: 6638

UniProt ID: [P63162](#)

Cytogenetics: 15q11.2

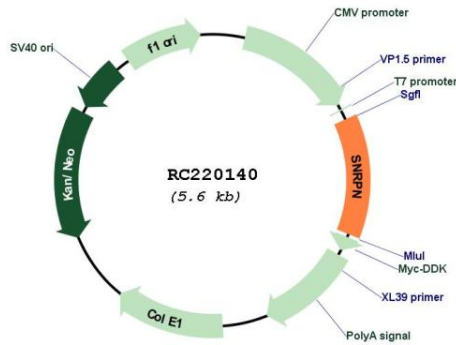
Domains: Sm

Protein Families: Stem cell - Pluripotency

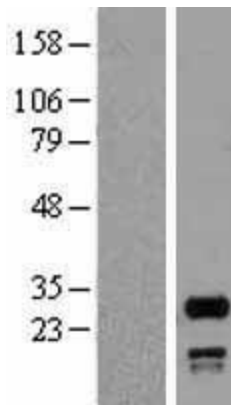
MW: 24.4 kDa

Gene 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]

Product images:



Circular map for RC220140



Western blot validation of overexpression lysate (Cat# [LY411552]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC220749] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).