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# Product datasheet for SC118198

## SNRPN (NM_003097) Human Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | SNRPN (NM_003097) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | SNRPN |
| **Synonyms:** | HCERN3; PWCR; PWS; RT-LI; SM-D; sm-N; SMN; SNRNP-N; SNURF-SNRPN |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**Fully Sequenced ORF:**

>OriGene ORF within SC118198 sequence for NM_003097 edited (data generated by NextGen Sequencing)

ATGACTGTTGGCAAGAGTAGCAAGATGCTGCAGCACATTGACTATAGAATGAGATGTATC
CTGCAAGATGGCCGAATCTTCATTGGCACCTTTAAGGCTTTTGACAAGCATATGAATTTG
ATCCTCTGTGATTGTGATGAGTTCAGAAAGATCAAGCCAAAGAATGCGAAGCAACCAGAG
CGTGAAGAAAAGCGGGTTTTGGGTCTGGTGTTGCTGCGTGGGGAGAACTTGGTATCCATG
ACTGTGGAGGGGCCACCCCCCAAAGATACTGGCATTGCTCGGGTACCACTTGCTGGAGCT
GCTGGAGGCCCTGGGGTTGGTAGGGCAGCTGGTAGAGGAGTACCAGCTGGTGTGCCAATT
CCCCAGGCCCCTGCTGGATTGGCAGGCCCTGTCCGAGGAGTTGGGGGACCATCCCAGCAG
GTAATGACTCCACAGGGAAGAGGCACTGTAGCAGCTGCTGCTGTTGCTGCGACTGCCAGT
ATTGCTGGAGCCCCAACACAGTACCCACCAGGACGGGGCACTCCGCCCCCACCCGTCGGC
AGAGCAACCCCACCTCCAGGCATTATGGCTCCTCCACCTGGTATGAGACCACCCATGGGC
CCACCAATTGGGCTTCCCCCTGCTCGAGGGACGCCAATAGGCATGCCGCCTCCGGGAATG
AGACCCCCTCCACCAGGCATTAGAGGTCCACCTCCCCCAGGAATGCGTCCACCAAGACCT
TAG

Clone variation with respect to NM_003097.3

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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_003097 unedited
NGGGTGCGAATTTGTATACGACTCCTATAGGCGGCCGCGNAATTCGCACGAGGGGCAAGG
CCAGCCGCCCCCTGTCTTCCCTCTGGAGCTGTTTGAGGAATGCAGTTCTTTTGCATAAGA
AAGGCTTTTCTCTCCAGTCATTCTGCTTGCTGATCAAGAACACTTAACAGCTTCAGGCTT
TCCTGATACTTTGACGAAGGTAATTGGGACTCCCATCAAGTCTCCACACAGCTAGCAGCC
ACGTGGGGCACTTCTCCAGCATATGTAAGTGGAACTCAGAAGGCAACATTCCCTGAACAT
ACTCTTCCACCAGAATCTCCTCTACAGATTTTTGCTGCCCCTTTTACCAGTGGCTGAATC
TACTTTCTCTTATGTTTTGCTCCATCACCCAGGCGGAGTGCAGTGGTGCCATCACAGCTT
ACTGCAGTCTCCACCTCTCAGGCTCAAGTGATTCTCCTACCTCAGCCTCCCGAGTAGCTG
GGACCAGAGGGATCGCTTACACCTGAGACGAACTACAGAACAGCACGTACCAGAGGTGGA
AGTCCAAGTCAAACGCAGAAGGACTGCCTCACTGAGCAACCAAGAGTGTCAGTTGTACCC
GAGGCGTTCTCAGCAGCAGCAAGTACCTGTGGTGGATTTCCAGGCTGAACTGAGGCAGGC
ATTCTTAGCTGAGACACCAAGAGGTGGTTAAAGCCATATTGGAGTAGCGAGGAATCTGAT
TCCAAGCAAAAACCAGGCTCCATCTACTCTNTGAAGCTTCTGCCCAGCTTGCATTGNTTC
TAGGAGACCTGCGTCATACCTTTATCTATAGCCCTCCCCCTAGTCTTCAGAAGCATCAAG
TTTTAACTGTGGACATTGANATTGNTGGNAACAGCATCATGACTGT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_003097 unedited
CGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTACAGTTTAATTGCTCTATG
CATTTATTATTAGCTATTATTAATGCAGAATGAGGGAACAAAAAGCTCACAAACACTCTA
CACAATTTCACAAGACGCATTGCAGGGGAAAAAGTGACTGAGATGGATCAACAGTATGCT
AAGGTCTTGGTGGACGCATTCCTGGGGGAGGTGGACCTCTAATGCCTGGTGGAGGGGGTC
TCATTCCCGGAGGCGGCATGCCTATTGGCGTCCCTCGAGCAGGGGGAAGCCCAATTGGTG
GGCCCATGGGTGGTCTCATACCAGGTGGAGGAGCCATAATGCCTGGAGGTGGGGTTGCTC
TGCCGACGGGTGGGGGCGGAGTGCCCCGTCCTGGTGGGTACTGTGTTGGGGCTCCAGCAA
TACTGGCAGTCGCAGCAACAGCAGCAGCTGCTACAGTGCCTCTTCCCTGTGGAGTCATTA
CCTGCTGGGATGGTCCCCCAACTCCTCGGACAGGGCCTGCCAATCCAGCAGGGGCCTGGG
GAATTGGCACACCAGCTGGTACTCCTCTACCAGCTGCCCTACCAACCCCAGGGCCTCCAG
CAGCTCCAGCAAGTGGTACCCGAGCAATGCCAGTATCTTTGGGGGGTGGCCCCTCCACAG
TCATGGATACCAAGTTCTCCCCACGCAGCAACACCAGACCCAAAACCCGCTTTTCTTCAC
GCTCTGGTTGCTTCGCATTCTTTGGCTTGATCTTTCTGAACTCATCACAATCACAGAGGA
TCAAATTCATATGCTTGTCAAAAGCCTTNAAGGGTGCCATGAAGATTCNGCCATCTTGCA
GATACATCTCATTCTTAGTNAATGTGCTGCACATCCTGCTACTCTGCCACAGTCATGATG
CTGTCCACCAATCCATGTCCCAGNTAAACTTGAGCTCTGAGACCTAGGGAAGCTTAGATA
AGTT

**Restriction Sites:** NotI-NotI

**ACCN:** NM_003097

**Insert Size:** 1640 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

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|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_003097.3, NP_003088.1 |
| **RefSeq Size:** | 1326 bp |
| **RefSeq ORF:** | 723 bp |
| **Locus ID:** | 6638 |
| **UniProt ID:** | P63162 |
| **Cytogenetics:** | 15q11.2 |
| **Domains:** | Sm |
| **Protein Families:** | Stem cell - Pluripotency |
| **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]<br>Transcript Variant: This variant (1) is the predominant splice variant and initiates at the imprinting center. This splice variant is bicistronic and can also encode the SNURF protein from an upstream open reading frame. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. |