

Product datasheet for **SC112433**

SNRPN (NM_022805) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | SNRPN (NM_022805) 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: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_022805, the custom clone sequence may differ by one or more nucleotides |

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ATGACTGTTGGCAAGAGTAGCAAGATGCTGCAGCACATTGACTATAGAATGAGATGTATCCTGCAAGATG
GCCGAATCTTCATTGGCACCTTTAAGGCTTTTGACAAGCATATGAATTTGATCCTCTGTGATTGTGATGA
GTTTCAGAAAGATCAAGCCAAAGAATGCGAAGCAACCAGAGCGTGAAGAAAAGCGGGTTTTGGGTCTGGT
TTGCTGCGTGGGAGAACTTGGTATCCATGACTGTGGAGGGGCCACCCCCAAAGATACTGGCATTGCTC
GGGTACCACTTGCTGGAGCTGCTGGAGGCCCTGGGTTGGTAGGGCAGCTGGTAGAGGAGTACCAGCTGG
TGTGCCAATCCCAGGCCCTGCTGGATTGGCAGGCCCTGTCGAGGAGTTGGGGACCATCCCAGCAG
GTAATGACTCCACAGGGAAGAGGCACTGTAGCAGCTGCTGTTGCTGCGACTGCCAGTATTGCTGGAG
CCCCAACACAGTACCCACCAGGACGGGGCACTCCGCCCCACCCGTCGGCAGAGCAACCCACCTCCAGG
CATTATGGCTCCTCCACCTGGTATGAGACCACCATGGGCCACCAATTGGGCTTCCCCCTGCTCGAGGG
ACGCCAATAGGCATGCCGCTCCGGGAATGAGACCCCCTCCACCAGGCATTAGAGGTCCACCTCCCCCAG
GAATGCGTCCACCAAGACCTTAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022805 unedited
 GTCGNCATTTGTATACGACTCCTATAGGGCGGCCGCAATTCGCACGAGGNAAGNATTG
 TTCACACAGGATAATTTGAAAGTGTCAAGTGTACCCGAGGCGTTCTCAGCAGCAGCAAGT
 ACCTGTGGTGGATTTCCAGGCTGAACTGAGGCAGGCATTCTTAGCTGAGACACCAAGAGG
 TGGTTAAAGCCATATTGGAGTAGCGAGGAATCTGATTCCAAGCAAAAACCAGGCTCCATC
 TACTCTTTGAAGCTTCTGCCAGCTTGCATTGTTTCTAGGAGAACCTGCGTCATACCTTT
 ATCTATAGCCTTCCCCTAGGCTTTCAGAAGCATCAAGTTTTAACTGTGGACATTGGATTT
 GGTGGAACAGCAATCATGACTGTTGGCAAGAGTAGCAAGATGCTGCAGCACATTGACTAT
 AGAATGAGATGTATCCTGCAAGATGGCCGAATCTTCATTGGCACCTTTAAGGCTTTTGAC
 AAGCATATGAATTTGATCCTCTGTGATTGTGATGAGTTTCAAGAAAGATCAAGCCAAAGAAT
 GCGAAGCAACCAGAGCGTGAAGAAAAGCGGGTTTTGGGTCTGGTGTGCTGCGTGGGGAG
 AACTTGGTATCCATGACTGTGGAGGGGCCACCCCCAAAGATACTGGCATTGCTCGGGTA
 CCATTGCTGGAGCTGCTGGAGGCCCTGGTTGGTAGGGCAGCTGGTAAAGGAGTACCA
 GCTGGTGTGCCAATCCCAGCCCTGCTGGATTGGCAGGCCCTGCCAGGAGTTGGG
 GACCATCCAGCANNGTATGACTCACAGGAAGAGCACTGTANCANCTGCTGCTGTTGCTG
 CGACTGCCAGTATTGCTGGAGCCNACACAGTACCCACCCAGACGGGCACTCCGNCCCCA
 N

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022805 unedited
 GCAACCTCCAGGTCAGNANAGCACTGGGGCGGGTCCAGGGATGCCCCGGTCTGTTC
 AGAAACAGCTATGACCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTCACA
 GTTTAATTGCTCTATGCATTTATTATTAGCTATTATTAATGCAAAATGAGGGAACAAAA
 GCTCACAACACTCTACACAATTTACAAGACGATTGCAGGGGAAAAAGTGACTGAGAT
 GGATCAACATTATGCTAAGGTCTTGGTGGACGATTCTGGCGGGAGGTGGACCTTAAT
 GCCTGGGGGAGGGGTCTCATTCCCGGAGCGGAATGCCTATTGNCGTCCCTGGAGCAGG
 GGAACCCCAATTGGTGGGCCATGGGTGGTCTCATACCAGGGGGAGGCCATAATGCC
 CTGAGGTGGGGTGTATGCCACCGGGGGGGCGGAATGCCCTTCTGGGGTACTGG
 GTTGGGGCTCAGCAACTGGAAGTCCAACACCACAGAAGTTGTTAAGCGCCTCTCCTG
 GGAATCTTACCCTGTGGAGTGGCCAAATCCTGGAAAGGCCTCAATCAACGAGGGCCGGG
 AATGACACCCANTGGTCTCTTTACAATTGCTACACACCAGGCCTCAAATTTCAGAAGGG
 TCCCACATGCCTTTTTTGGGGGGCCCTTCCAAGTGGATCAAATTTCCCCTAAACAC
 AAACCAAACCGTTTTTTACCCTTGGTGTACAATTTTGGTGGTTTTTGACCCTCCCCCGA
 GAATTTTTTTTTTAAACTTAAGCCAATAAATTTCCCTTGGAGT

Restriction Sites:

NotI-NotI

ACCN:

NM_022805

Insert Size:

1250 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).

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_022805.2](#), [NP_073716.1](#)

RefSeq Size: 1605 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]
Transcript Variant: This variant (2) represents use of an alternate promoter compared to variant 1. 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.