

## Product datasheet for **SC109784**

### SNRPD2 (NM\_004597) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SNRPD2 (NM_004597) Human Untagged Clone
Tag:	Tag Free
Symbol:	SNRPD2
Synonyms:	Sm-D2; SMD2; SNRPD1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109784 sequence for NM_004597 edited (data generated by NextGen Sequencing)

```
ATGAGCCTCCTCAACAAGCCCAAGAGTGAGATGACCCAGAGGAGCTGCAGAAGCGAGAG
GAGGAGGAATTTAACACCGGTCCACTCTCTGTGCTCACACAGTCAGTCAAGAACAATACC
CAAGTGCTCATCAACTGCCGCAACAATAAGAACTCCTGGCCGCGTGAAGGCCTTCGAT
AGGCACTGCAACATGGTCTGGAGAACGTGAAGGAGATGTGGACTGAGGTACCCAAGAGT
GGCAAGGGCAAGAAGAAGTCCAAGCCAGTCAACAAAGACCGCTACATCTCCAAGATGTTCC
CTGCGCGGGGACTCAGTCATCGTGGTCTGCGGAACCCGCTCATCGCCGGCAAGTAG
```

Clone variation with respect to NM\_004597.5

#### 5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_004597 unedited
CCGGTCACCATTTGTAAACGACTCATATAGGCGGCCGCGCAATTCGCACGAGGTGAACGG
AGAGCGTAGTGACCATCATGAGCCTCCTCAACAAGCCCAAGAGTGAGATGACCCAGAGG
AGCTGCAGAAGCGAGAGGAGGAGGAATTTAACACCGGTCCACTCTCTGTGCTCACACAGT
CAGTCAAGAACAATACCAAGTGTCTCAACTGGCCGCAACAATAAGAACTCCTGGGC
CGCGTGAAGGCCTTCGATAGGCACTGCAACATGGTCTGGAGAACGTGAAGGAGATGTGG
ACTGAGGTACCCAAGAGTGGCAAGGGCAAGAAGAAGTCCAAGCCAGTCAACAAAGACCGC
TACATCTCCAAGATGTTCTGCGCGGGGACTCAGTCATCGTGGTCTGCGGAACCCGCTC
ATCGCCGCAAGTAGGGCCGCCTGTCTGTTGACAGAACTCACTCCTCTGTCTATGAAG
ACCGCTGCCATTGGTGTGAGAATAATAAAGCTCTGTGTTTTTTTTAAAAAAAAAAAAAAAA
AAACTCGACTCTAGATTGCGGCCGCGGTCTAGCTGTTTCTGAACAGATCCCGGTGGC
ATCCCTGTGACCCCTCCCAAGTGCCTCTCTGGCCCTGGAAGTTGCCACTCCAGTGCCCA
CCAGCCTGTCTAATAAAATTAAGTTGCATATTTTGTCTGACTAGGTGTCCTTCTATA
TATTATGGGGTGGAGGGGGTGGTATGGACCAGGGCAAGATGGGAAGACAACCCGTAG
GCCTGCGGGTCTATTGGGAACCAAGCTGGAATGCAGTGCCACAATCTTGCTCCACTGC
ATCTCCGCTCCTGGTTAAGCGATTCTCTGCCTCAGCCTCCCGAGTT
```



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_004597 unedited CTCCAGGGTCCAGGAGAAGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTC AGGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAA AAAACACAGAGCTTTATTATTCTCAACACCAATGGCAGCGGTCTTCATAGGACAGAGGAG TGAGTTCTGTCAACAGACAGGCGGCCCTACTTGCCGGCGATGAGCGGGTCCGCAGGAC CACGATGACTGAGTCCCCGCGCAGGAACATCTTGAGATGTAGCGGTCTTTGTTGACTGG CTTGACTTCTTCTTGCCCTTGCCACTCTGGGTACCTCAGTCCACATCTCCTTCACGTT CTCCAGCACCATGTTGCAGTGCCTATCGAAGGCCTTACGCGGCCAGGAGTTTCTTATT GTTGCGGCAGTTGATGAGCACTTGGGTATTGTTCTTGACTGACTGTGTGAGCACAGAGAG TGGACCGGTGTTAAATTCCTCCTCCTCGCTTCTGCAGCTCCTGCGGGTCATCTCACT CTTGGGCTTGTGAGGAGGCTCATGATGGTCACTACGCTCTCCGTTACCCCTCGTCCGA ATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATTCTGACGGTTCATAACGAGCT CTGCTTATATAGACCTCCACCGTACACGCCTACCGCCATTTGCGTCAACGGGGCGGGG NTATTACGACATTTGGAAAGTCCCGTTGACTTGGTGCCAAACAACTCCATTGACGCAA TGGGCGGAGACTCGGAAATCCCGGAGTAAACCGCTTTCAGCCCTTGGTGTATGGCAAACG CATACTGTAAACCGAGACAAACCTAAAGCCTGCCGAAGAAGCCCGCACGTTTGATTGGC CATGCCCCCGGCCTACCGCTTGACCAACGGGGCGCCTGAATCCCTCCGCTGCATGCG CCTTCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004597
<b>Insert Size:</b>	500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_004597.4</a></u> , <u><a href="#">NP_004588.1</a></u>
<b>RefSeq Size:</b>	762 bp
<b>RefSeq ORF:</b>	357 bp
<b>Locus ID:</b>	6633
<b>UniProt ID:</b>	<u><a href="#">P62316</a></u>
<b>Cytogenetics:</b>	19q13.32
<b>Domains:</b>	Sm

**Protein Pathways:** Spliceosome

**Gene Summary:** The protein encoded by this gene belongs to the small nuclear ribonucleoprotein core protein family. It is required for pre-mRNA splicing and small nuclear ribonucleoprotein biogenesis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]  
Transcript Variant: This variant (1) represents the shorter transcript, but encodes the longer isoform (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.