

## Product datasheet for **SC109783**

### **SNRPB (NM\_003091) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SNRPB (NM_003091) Human Untagged Clone
Tag:	Tag Free
Symbol:	SNRPB
Synonyms:	CCMS; COD; Sm-B/B'; SmB/B'; SmB/SmB'; snRNP-B; SNRPB1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109783 sequence for NM_003091 edited (data generated by NextGen Sequencing)

```
ATGACGGTGGGCAAGAGCAGCAAGATGCTGCAGCATATTGATTACAGGATGAGGTGCATC
CTGCAGGACGGCCGGATCTTCATTGGCACCTTCAAGGCTTTTGACAAGCACATGAATTTG
ATCCTCTGTGACTGTGATGAGTTCAGAAAGATCAAGCCAAAGAAGCTCAAACAAGCAGAA
AGGGAAGAGAAGCGAGTCCTCGGTCTGGTCTGCTGCGAGGGGAGAATCTGGTCTCAATG
ACAGTAGAGGGACCTCCTCCAAAGATACTGGTATTGCTCGAGTTCACCTTGCTGGAGCT
GCCGGGGGCCAGGGATCGGCAGGGCTGCTGGCAGAGGAATCCCAGCTGGGGTTCCCATG
CCCCAGGCTCCTGCAGGACTTGTGGGCCAGTCCGTGGGGTTGGCGGGCCATCCCAACAG
GTGATGACCCACAAGGAAGAGGTAAGTGTGCAGCCGCTGCAGCTGCTGCCACAGCCAGT
ATTGCCGGGGCTCAACCCAGTACCCACCTGGCCGTGGGGTCTCCCCACCTATGGGC
CGAGGAGCACCCCTCCAGGCATGATGGGCCACCTCCTGGTATGAGACCTCCTATGGGT
CCCCAATGGGGATCCCCCTGGAAGAGGGACTCAATGGGCATGCCCTCCGGGAATG
CGGCCTCCTCCCCTGGGATGCGAGGCCTTCTTTGA
```

Clone variation with respect to NM\_003091.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003091 unedited  
 TTTGTATCCGACTTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTCCGGGGTCGGAA  
 CTCCAGGCTAGTGAGCTGGACCGGAAGTAGGTTTCTACCCGACCGCATTTTACGTGGTGC  
 TGCATTTCCGGTAGCGGCGGGGAAATCGGCTGTGGGAGAGAGGCTAGGCTCTGAGGA  
 GGCGAATCCGGCGGGTATCAGAGCCATCAGAACCGCCACCATGACGGTGGGCAAGAGCAG  
 CAAGATGCTGCAGCATATTGATTACAGGATGAGGTGCATCCTGCAGGACGGCCGGATCTT  
 CATTGGCACCTTCAAGGCTTTTGACAAGCACATGAATTTGATCCTCTGTGACTGTGATGA  
 GTTCAGAAAAGATCAAGCCAAGAAGCTCCAAACAAGCAGAAAGGGAAGAGAAGCGAGTCCT  
 CGGTCTGGTCTGCTGCGAGGGGAGAATCTGGTCTCAATGACAGTAGAGGGACCTCCTCC  
 CAAAGATACTGGTATTGCTCGAGTTCCACTTGCTGGAGCTGCCGGGGGCCAGGGATCGG  
 CAGGGCTGCTGGCAGAGGAATCCCAGCTGGGGTCCCATGCCCCAGGCTCCTGCAGGACT  
 TGCTGGGCCAGTCCGTGGGGTTGGCGGGCCATCCCAACAGGTGATGACCCACAAGGAAG  
 AGGTACTGTTGCAGCCGCTGCAGCTGCTGCCACAGCCAGTATTGCCGGGGCTCAAACCA  
 GTACCCACCTGCCGTGGNGTCTCCCCACCTATGGCCGNAGAGACCCCTCCAGCAT  
 GATGGCCACCTCCTGNTTGAGACCTCCTATGGGCCCCATGGGGATCCCCTGNAGAGG  
 GACTCATGGGCATGCCCCCTCCGAATGCCGCCCTCTCCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_003091 unedited  
 NNGGGTTTTAGCTATGGACCGGCCGCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTT  
 TAATGTTCTCTTAAAAGTTTATTATAAACCAGTTTCATAGGCCACAAGGAGATAAAAGGA  
 CTATGTACAGCCTTACGGGAAACAGGCAGGGAGCTGAGGAGGGCAAGATGAGTCTAGGG  
 CCTTGGTGGGCGCATTCCCGGGGAGGGGGCCCTGTAAGGGAAACAGACAATCCCATGA  
 GACTCCACGAACAACAGCATAAGAAACAACAGGTCTGTGGTAACGTGGCCCTGAGGAAT  
 CGAGCCCACGCCCTGCGGAGCTACTTCCATACTCTGTGGCCAAGGGTCAAAGAAGGCCCT  
 CGCATCCCAGGGGAGGAGGCCGATTCCCGGAGGGGGCATGCCATTGGAGTCCCTCTT  
 CCAGGGGGGATCCCCATTGGGGGACCCATAGGAGGTCTCATACCAGGAGGTGGGCCATC  
 ATGCTTGAGGGGGTGTCTCGGCCCATAGGTGGGGGAGGACCCCAACGGCCAGGTGGG  
 TACTGTGTTGGAGCCCCTGCAATACTGGCTGTGGCAGCAGCTGCAGCGGCTGCAACAGTA  
 CCTTTCTTTGGGGGCCATCACCTGTTGGGATGGCCCGCCACCCCAACGGACTGGCCAC  
 CAAGTCTGCAGGAGCCTGGGGCATGGGAACCCCAACTGGGATTTCTTTGCCAGAAGCCC  
 TGCCGGACCCCTGGGCCCCCGGTAGTTTCACCAAGTGAAGTGGCAACATACCATCTTCTT  
 TGGGAAGAGGCTCTTCTACTGGCATTGAAACAGTATCTTCCCTGGAAGCAACCCCAACG  
 GAGACCCCTTCCCTTCCCTTCTGCTTGTGTTGAGCTTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003091

**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\\_003091.3](#), [NP\\_003082.1](#)

**RefSeq Size:** 1153 bp

**RefSeq ORF:** 696 bp

**Locus ID:** 6628

**UniProt ID:** [P14678](#)

**Cytogenetics:** 20p13

**Domains:** Sm

**Protein Families:** Stem cell - Pluripotency

**Protein Pathways:** Spliceosome, Systemic lupus erythematosus

**Gene Summary:** The protein encoded by this gene is one of several nuclear proteins that are found in common among U1, U2, U4/U6, and U5 small ribonucleoprotein particles (snRNPs). These snRNPs are involved in pre-mRNA splicing, and the encoded protein may also play a role in pre-mRNA splicing or snRNP structure. Autoantibodies from patients with systemic lupus erythematosus frequently recognize epitopes on the encoded protein. Two transcript variants encoding different isoforms (B and B') have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, that causes a frameshift. The resulting isoform (B) is shorter and has a distinct C-terminus as compared to isoform B'.