

## Product datasheet for **SC312490**

### SCN3B (NM\_018400) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SCN3B (NM\_018400) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** SCN3B  
**Synonyms:** ATFB16; BRGDA7; HSA243396; SCNB3  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL6  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_018400 edited  
ATGCCTGCCTTCAATAGATTGTTTTCCCTGGCTTCTCTCGTGCTTATCTACTGGGTCAGT  
GTCTGCTTCCCTGTGTGTGGAAGTGCCCTCGGAGACGGAGCCGTGCAGGGCAACCCC  
ATGAAGCTGCGCTGCATCTCCTGCATGAAGAGAGAGGAGGTGGAGCCACCACGGTGGT  
GAATGGTTCTACAGGCCCGAGGGCGGTAAGATTTCTTATTTACGAGTATCGGAATGGC  
CACCAGGAGGTGGAGAGCCCTTTAGGGGCGCCTGCAGTGAATGGCAGCAAGGACCTG  
CAGGACGTGTCCATCACTGTGCTCAACGTCACTCTGAACGACTCTGGCCTCTACACCTGC  
AATGTGTCCCGGAGTTTGAGTTTGAGGCGCATCGGCCCTTTGTGAAGACGACGCGGCTG  
ATCCCCAAGAGTCACCGAGGAGGCTGGAGAGGACTTCACCTCTGTGGTCTCAGAAATC  
ATGATGTACATCCTTCTGGTCTTCTCACCTTGTGGCTGCTCATCGAGATGATATATTGC  
TACAGAAAGGTCTCAAAGCCGAAGAGGCAGCCAAGAAAACGCGTCTGACTACCTTGCC  
ATCCCATCTGAGAACAAGGAGAACTCTGCGGTACCAAGTGGAGGAATAG



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_018400 unedited  
 CCGCCGTTGAGCAATGGGCGGTAGGCGTGGATGATGGGAGGTCTATATAAGCAGAGCTCA  
 TTTAGGTGACACTATAGAATAACAAGCTACTTGTCTTTTTGCAGCGGCCGGAATTCGGC  
 ACGAGGCGGCCCGCTGCACCTCCCCAGGGAGCCGAGGGCGGGCGTGGACGGGACCGACG  
 TGAACGCATTCTGTAGCCAGACGGGCGGCCCGGGCGGCTTCGGGAGTGGGGTACGCC  
 CAGCTGGAGAAGCAGTTAGGGCGGACGAAGCAGGAGCCGCGGGGTGGGAGGATCCAGT  
 CGGAACGCAACCGATCCTGGGGAGGCGAGAGGTGAATCAACCTGGACCTTCCACAGCCT  
 GGCTGCTAGGCCAGCAGTGCAGCTCCCTTCCGAGCTGAGCTTACCCTGGGCGCAAACGAG  
 CGAGGCAGGGGCGGAGTGAAGCTGGAGTTCCGGGTGGGCGGGGAGGCGACTGTCCGT  
 GGTGCTGAGCGCGGCGAGAGCGGGCGGGAGCGGCTGATCGGCTCCCTCGAACTGGGGA  
 GGTCCAGTGGGGTCGCTTAGGGCCAAAGCCCCACCCGGCTCCAAAAGCTCCCAGGGCC  
 TCCCCAGGCACCGGTGCTCGGCCCTTCTTCGGTCAGAAAGTCGCCCCCTGGGGCAGTT  
 CGTCCCAAAGGGTTTCTCGAAAGAATCTGAGAGGGCGCAGTCTTGACCGAGGGAACT  
 CTCTGTGTAGCCTTGAAGCCGCCAGCCCCAGAAGATGCCTGCCTCAATAGATTGTTTC  
 CCCTGGCTTCTCTCGTGTTATCTACTGGGTGAGTGTCTGCTTCCCTGTGTGTGGAAG  
 TGCCCTCGAGACGAGCCGTGCAGGGCAACCCATGAAGCTGCGCTGCATCTCCTGCATGA  
 GAGGAGAGGAGGTGGAGGCCACCACCGGTGGTGAATGGTTCTACAGGCCCGGAGGGCGC  
 GTAAGAATTTCTTTATTACG

**3' Read Nucleotide Sequence:**

>Forward primer walk for NM\_018400 unedited  
 TTGCTTCTGTGTGTGGAGTGCCTCGGTGACGGAGGCCGTGCAGGGCAACCCCATGA  
 AGCTGCGCTGCATCTCCTGCATGAAGAGAGAGGAGGTGGAGGCCACCACGGTGGTGAAT  
 GGTCTACAGGCCCGAGGCGGTAAGATTTCTTATTTACGAGTATCGGAATGGCCACC  
 AGGAGGTGGAGAGCCCCTTTCAGGGCGCCTGCAGTGAATGGCAGCAAGGACCTGCAGG  
 ACGTGTCCATCACTGTGCTCAACGTCACTCTGAACGACTCTGGCCTTACACCTGCAATG  
 TGTCCCGGAGTTTGAGTTTGAGGCGCATCGGCCCTTGTGAAGACGACGCGGCTGATCC  
 CCCTAAGAGTCACCGAGGAGGCTGGAGAGGACTTACCTCTGTGGTCTCAGAAATCATGA  
 TGTACATCCTTCTGGTCTTCTCACCTTGTGGCTGCTCATCGAGATGATATTTGCTACA  
 GAAAGGTCTCAAAGCCGAAGAGGCAGCCCAAGAAAACCGCTCTGACTACCTTGCCATCC  
 CATCTGAGAACAAGGAGAAGTCTGCGGTACCAGTGGAGGAATAGAACAGGAGCAGTGTGA  
 CATGAGGTGGCCTGAACACCTGAGGGACTGGACATCCCATGTTTCAGCAATGTCAATGGCA  
 TCAGAGGGCGCCCAAGGGCCCATCGCTTCCCTTCATGCATCCATTGTTCTGTTCTTTC  
 ATTCATCCATACATCCACCTGCCTCTGAGCTTTCACCTCTGACTCCCTAACTCCATCAGA  
 CCTCTACGCCCATAGACTCTGCCAGACTGAGAGCCAACATTTCTACATAGACTCAACCT  
 CACCTCTCCTAGTTTTCCAACAAGACTCCAAAGCCAAC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_018400

**Insert Size:**

6000 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:** The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

**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\\_018400.3](#), [NP\\_060870.1](#)

**RefSeq Size:** 6081 bp

**RefSeq ORF:** 648 bp

**Locus ID:** 55800

**UniProt ID:** [Q9NY72](#)

**Cytogenetics:** 11q24.1

**Domains:** ig, IG

**Protein Families:** Druggable Genome, Ion Channels: Sodium, Transmembrane

**Gene Summary:** Voltage-gated sodium channels are transmembrane glycoprotein complexes composed of a large alpha subunit and one or more regulatory beta subunits. They are responsible for the generation and propagation of action potentials in neurons and muscle. This gene encodes one member of the sodium channel beta subunit gene family, and influences the inactivation kinetics of the sodium channel. Two alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]  
 Transcript Variant: This variant (1) represents the longest transcript.