

## Product datasheet for **MC202491**

### Scn3b (NM\_153522) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Scn3b (NM\_153522) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Scn3b  
**Synonyms:** 1110001K16Rik; 4833414B02Rik; Scnb3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC058636 sequence for NM\_153522  
 CGGCAGAGAGCTGCCTGCGCATGTCAAGGCTAGCAACACATTTCAGCTAGGGGGTGGCCCTGGAGAGGGGC  
 GGCTTGATCACCCAATCGCCAGCATCGGGCTTCGCAGGATCCAGAGACGCGCCCGCGGAAGGGGGTC  
 CCCCCCTTACCCAGCCTCCACCTCTGAGATCGCCAGTCCACCGAAGCTCCCGCCTCTTTCCACGCCTG  
 GTGGACCTCATGGGAGCCCGGGGCTGCTGTGTACAAGACTGAAGTGGAACACATTCTGTAGCCCAGACGA  
 CGGCTGGAGTGGGGACACGCCAGCTGGAGAAGCTGCCCGCCGTAGAAGCCGAGATTCTGAGTCTCG  
 GTGGATCGAAGTCGCTGTCCCTAGGGGAGGCGAGAGTTCCAGAAACCACTTACGAGAAAAGATGCCTGCC  
 TTCAACAGATTGCTTCCCTAGCTTCTCTAGTGCTCATCTACTGGGTGAGAGTCTGCTTCCCTGTGTGTG  
 TAGAAGTACCCTCGGAGACAGAAGCCGTGCAGGGCAATCCATGAAGCTGAGATGCATCTCCTGCATGAA  
 GAGGGAGGAGGTGGAGGCCACCACTGTAGTGGAGTGGTTCTACAGGCCTGAGGGCGGTAAGATTTCCCT  
 ATATATGAGTATCGAAATGGCCACCAGGAGGTGGAGAGCCCTTCCAAGGTCGTCTGCAGTGAATGGGA  
 GCAAAGACCTGCAGGACGTATCCATCACTGTTCTCAATGTCACTCTGAATGACTCTGGCCTTACACATG  
 TAATGTGTCCAGGGAGTTTGTGTTTGAAGCACACCCGGCCCTTTGTGAAGACCACAAGACTAATACCCTG  
 CGAGTCACTGAAGAGGCGGGGAGAAGACTTACCTCCGTGGTCTCGGAAATCATGATGTACATCCTCCTGG  
 TCTTCCCTCACCTTGTGGCTGTTTATTGAGATGATCTATTGCTACAGAAAGGTCTCTAAGGCCGAAGAGGC  
 AGCTCAGGAAAATGCGTCTGACTACCTTGTCTATCCCTTCAGAGAAACAAGGAGAATCTGTGGTACCCGTG  
 GAGGAATAAAGTGGTGTGACTTGTGCAATCTCGTCTTCCGGTACTCTACGTTAATGGTCACATCACAAT  
 GCTCTCTATTATCAAACCCCTCAGAAGCTGAATCACTTTGGCCTGAATATTGAGCAAACCAACCCCT  
 TGCTCATGATAGCAAAGGCACAATAATTCTCGTTCCTGTTTCCCTGTTTCCCTGATGTGTTTGGAGAGGGTTG  
 CCCTGGACATTCTCAATGAGTCTTCTATTGTTGGTGGGTGAGCTGAGTGTGCTGAGCAACTGGCTATCCCC  
 AGTTCAGCAATGCCAGCAACATCAGGAAGTCCCCAGGTGTCCCAACACATCCATCTTTCTATTACCAA  
 CCACCCACCAACTGTGAGATTTTACCTGACTTCCGGACTCTATCAGAACTCCTATACATCTTGACCTT  
 GCCTGAACTGAAGAGCCAACATCTCCATGGACTAAACCTCACTCTATCCTTGCTTCCAATCAAGTAGC  
 TCCCAACTCAACTAGAGTTGTCCCTGTGCTCAAATGACTTTAGATAAGTACTGGAGAGTAGTAGTCTC  
 TGTGCTCTGTGCAATTGGGTTGCTTCACTGCAGCAAAGGATGAATGTATATTGGAAGGAAGCCCT  
 GATTAGTTTGTAAAAGCCAAAGTGTGGCATTCACTTTGATTGATTGAAGTCACTTTTCCCTGCCTCT  
 TAGAACACAAGAGAGCAGCATGCCCGCCCTAACTTTCCAGAGACATCTCTGTGTGCACTGGAATACA



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TTCTGGAGCTCAGTGTTCGAGGCTATGTCTCCATAATCCCAAAGGCCTGGAACAAACCCAGAACTCCA  
 AGAAGCCAAGGAAGCATCCAGGACGATTTTCAGTAGGTTTTGAAAGCGATATAACACTCCCAGATTGGAA  
 ACACGGATGAGTGAATTTCTGGGTTGAAATGCCTCACTTCTTCAATTTCTCAGTGTCTGTGGATCAGTAT  
 TAGTCCTCGTTTTACAGGAGGCATCTGAGACTCACACAAGGCTGAACAGGATATTGAGGGGATTAACCTG  
 GCCGAGAGATGAGTTTCATGCCTCCACTTTACTCCCTAAGCTGAAAGATGTTTTGAGGACTCTTAA  
 CAATCAGCAGGGCAGAAGCATGGCATTGTCCAGCAGAGGCTACAGGTGACATGAGACAGACTTTAGGAT  
 TTCACACAAAGATTTGTGAATCTGAAGCATCCTCCAAGAGACATGGCACCTGAGGGCAATAGCTATATGG  
 CAAAAATGTTTTAGTCTGAAATGGACAATGAACAAAGAGACAAAGATAGGTGTGTAGCTTCTAAATAC  
 CTCACCTGTAGATGTCATGTTTGGGTATTGGTGTGTTGTAAGTCCCCACCCCTACCCTCATCCCCACCC  
 AAGAGAGCAGGGAACAAGTGACAAGATTCTTAGTCAATATCTCTTTTTAATGACTGTTCTAAGTCAAT  
 ATCTTTAGCCCCTACAGATAGCAAGGGCAGGAGCCTTATGGTATATAAAAAGATGCAAGTGAGACTCA  
 GTAAGAGAGTTGCTCACTCTGAGGAGCTCTATAAGAAAGACCCTTCTCCACCCCATCGGGCTTTGTA  
 TGGCAAATCCCTTTTACCCACACCGTTTCTTCTTTGGATGCCAGACATCCGCCTTGGGACTCCCA  
 TCCCACTTTTTTATCTGGTTTGTGTACATGGGGTTTATCCAGAAACACAATTGCATTTGCTTATG  
 GGAGATCATGACTATGACCTACAAGGTATGGCACTCACCAGCCAATTAATCTTACCATCTCCATCT  
 TCTTCCATCCTTCTACTTTGAATCCCAGACTAGACGTGCGCAGCTCTGGAGCCTTCTCGGTGTGTAC  
 TGCTTACTAAAGGGCTTAGAAGATTCTCAAGGGCTATAATCCTCTAGAAACCCCACTGTTTGTCTTGGT  
 GCTGGGTATTTGCTGTGACTGATTCTCAATAATTTACTGAAGGTCAAATAAGCTGAGTCTAATTTCCC  
 TTTATTACTGTCTAACAGCTGTGAACCTGGTACTCGGTTGGGCCTGAAAGCATCTTGCCCTGTTGACTT  
 GGAGTGTGAGTGGTGGATCAAGCCCCAGTCCCTAAGTGGAAATACTCAGTGTGCTATCTCAGG  
 CTTTCTTTCAATTTGTTTACACATTATCTTTGGTTCCTCCACTCTCAATTAAGTGCACACCCATGCTT  
 TCTTTGAGTTTCTGGGTTTGTCTAGACATCAAAATAGAATTGCAAGTAGAAAGGGAAGTTTTTCAGAGC  
 AAGATTATGCTGAGAAAGATAGCAGTGGGCTTAAAAGTGGAAAGGGCTAAGGTGATAGCCCAATAGGTAA  
 AGTGCTTGCCACGCCAGCGGGAGAGTCTCCGTATGATCTCTAGAATCCATGTGAACGCCAGACATACAT  
 TATGGCACACATTGGTATCCCAGACCTGGGGAGGCAGAGACAGGAAGATCTGAGACTCGCTAACCAAGT  
 CACCAGGCCAACTTACTTACTTGGCAAGCTCCAGGAGAGTGAGAGACCCTGTCTCCAAAAACAAAACCA  
 AAAAAACCAACAAGGTGGATAGTGCCTGAGGAATGACACCCAAGGTTGACTTCTGGCCTCCACATATACAT  
 GCACACAAGTTAAGGCCATAAGCATACTTACATAAAGATGCACACGCTTGTGTCTGTGTATGTATACAT  
 GTGCGTGCACACACACACACACACACACAGAGACAGAGAGACAGAGAGAGACAGAGACGACCTTC  
 CTCTCACTTGTGTTATAAATGAGAAAGCCCTGGTCTGTGAATCACTCAGTCAATGCAATGTATGTAA  
 CCAGGACCTTGGTGTGCCTACGCATCATTCTGATCATCTACTCACATTGTTCAACACTCTCTGTGTGCGAG  
 CACTAGGTTAGGCTCTAGTTAGACCCCTTGGTTTTAGGTCTGTAAAAGTGTGCAAGCATGTGTGTGTG  
 CGCGCACATGTGTGTGTACACTAGTGACAAGCACATGGTTCCAATAAAGTCTCTGTTCATGTCAA  
 TAAAGCGTCTCTGAAGACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:**

AscI-NotI

**ACCN:**

NM\_153522

**Insert Size:**

648 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](#)

**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:** [BC058636](#), [AAH58636](#)

**RefSeq Size:** 4176 bp

**RefSeq ORF:** 648 bp

**Locus ID:** 235281

**Cytogenetics:** 9 A5.1

**Gene Summary:** Modulates channel gating kinetics. Causes unique persistent sodium currents. Inactivates the sodium channel opening more slowly than the subunit beta-1. Its association with NFASC may target the sodium channels to the nodes of Ranvier of developing axons and retain these channels at the nodes in mature myelinated axons (By similarity).[UniProtKB/Swiss-Prot Function]