

Product datasheet for **SC122684**

SCN2B (NM_004588) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCN2B (NM_004588) Human Untagged Clone
Tag:	Tag Free
Symbol:	SCN2B
Synonyms:	ATFB14
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_004588 edited
GCCGGCCATATTAGAGAGATGGAATAAAGCTTCCTTAATGTTGTATATGTCTTTGAAGT
ACATCCGTGCATTTTTTTTTAGCATCCAACCATTCCTCCCTTGTAGTTCTCGCCCCCTCA
AATCACCTCTCCCGTAGCCACCCGACTAACATCTCAGTCTCTGAAAATGCACAGAGAT
GCCTGGTACCTCGCCCTGCCTTACGCTCACGGGGCTCAGTCTCTTTTTCTCTTTGGTG
CCACCAGGACGGAGCATGGAGGTCACAGTACCTGCCACCCTCAACGTCTCAATGGCTCT
GACGCCCGCTGCCCTGCACCTTCAACTCCTGCTACACAGTGAACCACAAACAGTTCTCC
CTGAACTGGACTTACCAGGAGTGCAACAACCTGCTCTGAGGAGATGTTCCCTCCAGTCCGC
ATGAAGATCATTAACTGAAGCTGGAGCGGTTTCAAGACCGCGTGGAGTTCTCAGGGAAC
CCCAGCAAGTACGATGTGTGGTGATGCTGAGAAAAGTGCAGCCGGAGGATGAGGGGATT
TACAAGTCTACATCATGAACCCCTGACCGCCACCGTGGCCATGGCAAGATCCATCTG
CAGGTCCTCATGGAAGAGCCCCGAGCGGGACTCCACGGTGGCCGTGATTGTGGGTGCC
TCCGTCCGGGGCTTCTGGCTGTGGTCATTTGGTGTGATGGTGGTCAAGTGTGTGAGG
AGAAAAAAGAGCAGAAGCTGAGCACAGATGACCTGAAGACCGAGGAGGAGGCAAGACG
GACGGTGAAGGCAACCCGGATGATGGCGCCAAGTGTGGGTGGCCGGCCCTGCAGCTCC
CGTGTCCCGTCTCTCCCTCTCCGCCCTGTACAGTGACCTGCCTGCTCGCTCTTGGTG
TGCTTCCCGTGACCTAGGACCCAGGGCCACCTGGGGCCTCTGAACCCCGACTTCGT
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GAGGGGGCCGCTGTCCACTGCCAGTGTGGCTGGCAGTGGCTTCCAGAGAGGACCTG
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CGGCTGTGCTCTCCCTGCTCCAGCCAGAGCAGCCATCAGGCTGGAGGTGACGATGA
GTTCTGAAACTTGGAGGGCATGTTAAAGGGATGACTGTGCATTCCAGGGCACTGACGG
AAAGCCAGGGCTGCAGGCAAAGCTGGACATGTGCCCTGGCCAGGAGCCATGTTGGGCC
CTCGTTTCCATTGCTAGTGGCCTCCTTGGGGCTCCTGTTGGCTCCTAATCCCTTAGGACT
GTGGATGAGGCCAGACTGGAAGAGCAGCTCCAGGTAGGGGGCCATGTTTCCAGCGGGGA
CCCACCAACAGAGGCCAGTTTCAAAGTCAGCTGAGGGGCTGAGGGGTGGGGCTCCATGGT
GAATGCAGGTTGCTGCAGGCTCTGCCTTCTCCATGGGGTAACCACCCTCGCTGGGCAGG
GGCAGCCAAGGCTGGGAAATGAGGAGGCCATGCACAGGGTGGGGCAGCTTTCTTTGGGGC
TTCAGTGAGAATCTCCAGTTGCCCTTGGTGGGGTTTCCACCTGGCTTTTGGCTACAGA
GAGGGAAGGGAAAGCCTGAGGCCGCATAAGGGGAGGCCTTGAACCTGAGCTGCCAATG
CCAGCCCTGTCCCATCTGCGGCCACGCTACTCGCTCCTCTCCAACAACCTCCCTTCTGTG
GGACAAAAGTGACAATTGTAGGCCAGGCACAGTGGCTCACGCCTGTAATCCCAGCACTTT
GGGAGGCCAAGGCGGGTGGATTACCTCCATCTGTTTAGTAGAAATGGGCAAAACCCATC
TCTACTAAAAATACAAGAATTAGCTGGGCGTGGTGGCCTGTGCCTGTAATCCCAGCTATT
TGGGAGGCTGAGGCAGGAGAATCGCTTGTAGCCCGGAAGCAGAGGTTGCAGTGAAGTGA
ATAGTGATAGTGCCACTGCAATTCAGCTGGGTGACATAGAGAGACTCCATCTCAAAAAA
AAAAAAAAAAAAAAAAAAAA
  
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004588 unedited GTTAGCATTAGTAATACCACTTTCTATAGGGCGGCGCGATTCCCGGGTGCCGGCCATAT TATAGAGATGGAATAAAGCTTCCTTAATGTTGTATATGTCTTTGAAGTACATCCGTGCA TTTTTTTTAGCATCCAACCACTTCTCCCTTGTAGTTCTCGCCCCCTCAAATCACCTCT CCCGTAGCCACCCGACTAACATCTCAGTCTCTGAAAATGCACAGAGATGCCTGGCTACC TCGCCCTGCCTTCAGCCTCACGGGGCTCAGTCTCTTTTTCTCTTTGGTGCCACCAGGACG GAGCATGGAGGTCACAGTACCTGCCACCCTCAACGTCTCAATGGCTCTGACGCCCGCCT GCCCTGCACCTTCAACTCCTGCTACACAGTGAACCACAAACAGTTCTCCCTGAAGTGGAC TTACCAGGAGTGCAACAACCTGCTCTGAGGAGATGTTCTCCAGTTCGCGATGAAGATCAT TAACCTGAAGCTGGAGCGGTTTCAAGACCGCGTGGAGTTCTCAGGGGACCCCGCAAGTA CCATGTGTCGGTGATGCTGAGAAACGTGCCCGGAGGATGAGGGGACTACAAGTCTAC ATCATGAACCCCTGACCGCCACCGGGCCATGGCAAGATCCATCTGCGAGTCTTATG GAAAAGCCCTTGAACGGGACTCCACGTGGGGCCGATTGTGGGGCGCCCCCTCGGGG GCCTCTCCGGCCGGGTCTTTTTGGTGCCGAAGGGGGCGTAAGTGGGCGAGGAGGAAAA AGGAGCCTAAGCCTGACCAATTTGACCTTGAACCCGGCGAGGAGGCGCCCCCGCCG CGGTAAGGCAACCCGNATAGCCGGCGCCCGTATAGGGTGGGCCGGGCCACGAAACCT TTCGGGTTACCGCCACCACCTGTTCCAGCCTGGACAGGTGGGCC
Restriction Sites:	Please inquire
ACCN:	NM_004588
Insert Size:	2239 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 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:	<ol style="list-style-type: none"> 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_004588.3 , NP_004579.1

RefSeq Size: 4939 bp

RefSeq ORF: 648 bp

Locus ID: 6327

UniProt ID: [O60939](#)

Cytogenetics: 11q23.3

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

Gene Summary: The protein encoded by this gene is the beta 2 subunit of the type II voltage-gated sodium channel. The encoded protein is involved in cell-cell adhesion and cell migration. Defects in this gene can be a cause of Brugada Syndrome, atrial fibrillation, or sudden infant death syndrome. [provided by RefSeq, Jul 2015]