

Product datasheet for **SC123982**

SCN4B (NM_174934) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCN4B (NM_174934) Human Untagged Clone
Tag:	Tag Free
Symbol:	SCN4B
Synonyms:	ATFB17; LQT10; Navbeta4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC324716 sequence for NM_001142349 edited (data generated by NextGen Sequencing)

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ATGAACAACATTTCCATTGTGCTGAGGGACCTGGAGTTCAGCGACACGGGCAAATACACCTGCCATGTGA  
AGAACCCCAAGGAGAATAATCTCCAGCACCACGCCACCATCTTCCTCCAAGTCGTTGATAGACTGGAAGA  
AGTGGACAACACAGTGACACTCATCATCTGGCTGTCGTGGGCGGGGTCATCGGGCTCCTCATCCTCATC  
CTGCTGATCAAGAACTCATCATCTTCATCCTGAAGAAGACTCGGGAGAAGAAGAAGGAGTGTCTCGTGA  
GCTCCTCGGGGAATGACAACACGGAGAACGGCTTGCTGGCTCCAAGGCAGAGGAGAAACCACCTTCAA  
AGTGTGA
```

Clone variation with respect to NM_001142349.1



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_174934 unedited
 TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGCGCAAAGCTTCAGGGTA
 GCTTTGTGGCCGAACGCCGACCTCGGGCGGAGAGCGGGCTGTGCCAGTATCCCATCCC
 CGGACCCCCGCGCTCCGGAGAGAACAGGACTATGCCCGGGCTGGGGACGGAGGCAA
 AGCCCCGGCGAGATGGCTGGGCACTGGGCTTTGGCCTTTCTGCTCCCCGTAACCT
 CTCGCTGGAGGTGTCTGTGGAAAGGCCACCGACATCTACGCTGTCAATGGCAGGAGAT
 CCTGTGCCCTGCACCTTCCAGCTGCTTTGGCTTCGAGGACCTCCACTTCGGTGGAC
 CTACAACAGCAGTGACGCATTCAAGATTCTCATAGAGGGGACTGTGAAGAATGATAAGTC
 TGACCCCAAGGTGACGTTGAAAGACGATGACCGCATCACTCTGGTAGGCTCTACTAAGGA
 GAAGATGAACAACATTTCCATTGTGCTGAGGGACCTGGAGTTCAGCGACACGGGCAAATA
 CACCTGCCATGTGAAGAACCNAAGGAGAATAATCTCCAGCACCACGCCACCATCTATCT
 CCAAGTCGTTGATAGACTGGAAGAAGTGGACAACACAGTGACACTCATCAATCCTGGCTG
 TCGTGGGACGGTCATCGGGGCTCTAATCCTCATCCTGCTGATCAAGAACTTATTAAT
 CTTTCATCCTTGAGAATACATCGGAGAAAAAAAAAAGGAGGGCTCTGGGACCTTCTGGGG
 GAATGACCACCCGAAAACGCGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_174934 unedited
 TATACAGTTTGANGCCAGCAGCAGATGTCTCAGGCACGTGGGTTCTACNGTCNGAGCTCA
 AGCATCAGTTTCATCATCAGAAAGGGGCTCCCTGCAGCTGCTCAGCCCCAAGCAGGGCT
 CACACTTTTGAAGGTGGTTTCTCCTCTGCCTTGGAGCCAGGCAAGCCGTTCTCCGTGTTG
 TCATTCGCCGAGGAGCTCAGGACACTCCTTCTTCTTCTCCGAGTCTTCTTCAGGATG
 AAGATGATGAGTTTCTTGATCAGCAGGATGAGGATGAGGAGCCGATGACCCCGCCACG
 ACAGCCAGGATGATGAGTGTCACTGTGTTGTCCACTTCTTCCAGTCTATCAACGACTTGG
 AGGAAGATGGTGGCGTGGTGTGCTGGAGATTATTCTCCTTGGGGTTCTTCACATGGCAGGTG
 TATTTGCCGTGTCGCTGAACTCCAGGTCCTCAGCACAATGAAATGTTGTTTATCTTC
 TCCTTAGTAGAGCCTACCAGAGTGTGCGGTGTCATCGTCTTTCAACGTCACCTTGGGGTCA
 GACTTCTCATTCTTACAGTCCCCTCTATGAGAATCTTGAATGCGTCACTGCTGTTGTAG
 GTCCACCGGAAGTGGAGGTCCTCGAAGCCAAAGCAGCTGGAGAAGGTGCAGGGCAGCAGG
 ATCTCCGTGCCATTGACAGCGTAGATGTCGGTGGCCTTTCCACAGACACCTNCAGCGACA
 GGGTTACCGGGAGCAGGAAGAGGCCAAAAAACCAGTGCCACCATCTCGNCGGGCTTT
 GNNCTCGTCCAGN

Restriction Sites:

Please inquire

ACCN:

NM_174934

Insert Size:

4700 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:	<u>NM_174934.1, NP_777594.1</u>
RefSeq Size:	4489 bp
RefSeq ORF:	687 bp
Locus ID:	6330
UniProt ID:	<u>Q8IWT1</u>
Cytogenetics:	11q23.3
Protein Families:	Ion Channels: Sodium, Transmembrane
Gene Summary:	<p>The protein encoded by this gene is one of several sodium channel beta subunits. These subunits interact with voltage-gated alpha subunits to change sodium channel kinetics. The encoded transmembrane protein forms interchain disulfide bonds with SCN2A. Defects in this gene are a cause of long QT syndrome type 10 (LQT10). Three protein-coding and one non-coding transcript variant have been found for this gene.[provided by RefSeq, Mar 2009]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>