

Product datasheet for **SC119540**

SCN1B (NM_001037) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCN1B (NM_001037) Human Untagged Clone
Tag:	Tag Free
Symbol:	SCN1B
Synonyms:	ATFB13; BRGDA5; DEE52; EIEE52; GEFSP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119540 sequence for NM_001037 edited (data generated by NextGen Sequencing)

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ATGGGGAGGCTGCTGGCCTTAGTGGTCGGCGCGGCACTGGTGTCTCAGCCTGCGGGGGC
TGCCTGGAGGTGGACTCGGAGACCGAGGCCGTGTATGGGATGACCTTCAAATTCCTTGC
ATCTCCTGCAAGCGCCGAGCGAGACCAACGCTGAGACCTTACCGAGTGGACCTTCCGC
CAGAAGGGCACTGAGGAGTTTGTCAAGATCCTGCGCTATGAGAATGAGGTGTTGCAGCTG
GAGGAGGATGAGCGCTTCGAGGGCCGCGTGGTGTGGAATGGCAGCCGGGGCACAAAGAC
CTGCAGGATCTGTCTATCTTCATCACCAATGTCACCTACAACCACTCGGGCGACTACGAG
TGCCACGTCTACCGCCTGCTCTTCTTCGAAAACACGAGCACAACACCAGCGTCGTAAG
AAGATCCACATTGAGGTAGTGGACAAAGCCAACAGAGACATGGCATCCATCGTGTCTGAG
ATCATGATGTATGTGCTCATTGTGGTGTGACCATATGGCTCGTGGCAGAGATGATTTAC
TGCTACAAGAAGATCGCTGCCGCCACGGAGACTGCTGCACAGGAGAATGCCTCGGAATAC
CTGGCCATCACCTCTGAAAGCAAAGAGAACTGCACGGGCGTCCAGGTGGCCGAATAG
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Clone variation with respect to NM_001037.4



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001037 unedited</p> <pre>GGGGTTCCCATTTGTATACTATCATATAGGCGGCCGNAATTCGCACCAGGCAGCACGC GCCGCGCAGCCATGGGGAGGCTGCTGGCCTTAGTGGTCGGCGCGGCACTGGTGTCTCAG CCTGCGGGGGTCTCGTGGAGGTGGACTCGGAGACCGAGGCCGTGTATGGGATGACCTTCA AAATTTTTCATCTCTGCAAGCGCCGAGCGAGACCAACGCTGAGACCTTCACCGAGT GGACCTTCGCCAGAAGGGCACTGAGGAGTTTGTCAAGATCCTGCGCTATGAGAATGAGG TGTTGCAGCTGGAGGAGGATGAGCGCTTCGAGGGCCCGTGGTGTGGAATGGCAGCCGGG GCACAAAGACCTGCAGGATCTGTCTATCTTCATCACCAATGTCACCTACAACCACTCGG GGACTACGAGTGCCACGTCTACCGCTGCTCTTCTCGAAAACACTACGAGCAACAACCA GCGTCGCAAGAAGATCCACATTGAGGTAGTGGACAAAGCCAACAGAGACATGGCATCCA TCGTGTCTGAGATCATGATGTATGTGCTCATTGTGGTGTGACCATATGGCTCGTGGCAG AGATGATTTACTGCTACAAGAAGATCGCTGCCGCCACGGAGACTGCTGCACAGGAGAATG CCTNCGAATACCTGGCCATCACCTCTGAAAGCAAGAGGACTGCACGGCGTCCAGGTGGC CGAATAGCCCTGGCCCTGGGCCCGCTCAGGGAGAAGCAGCCGTAACGGGACTCTCCA GGCAGCCTGCCCCACGTGGGGGTGCCCCCTCTGGCCCAGAAAAGCTCAGATCTTGCCG ACGAACCACTGGGGTGGGAGGGCAAGGGGCTTGCTTCGAACCCCAT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001037 unedited</p> <pre>TTTTTTTTTTTTTTTTTCAAGTCCAAGAGTCTTTATTTTCATGAACAAAACACTTCTGTA AAGAGACGAGGCTGAATGGGCCCTTTCTAGGTGGCCACAGTTCAAGGCTGGTGAAGAG GGCGAGGTTGGGCCGGGAGGAGTGCATTACAGGGAGGGGGACCCAGGTCCAGCCGG AGGAAGCGGGAGGGAAATGATGCCGGGAGGGGAGTCCGAGTGGTCCAGAACCCCC TGCCCCAAACTGCTCCAGCCCATCATCGCGACCCCTGCCGCCAGGCAGGGAGGAGCGGG GAGGGGCTGGCCCAGAAGTGCGTGTCTGAAGCGCCAATGTGTGCAAATACCCAAGGAG GAGGGGTGCGGGGCCG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001037
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:	<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_001037.3</u> , <u>NP_001028.1</u>
RefSeq Size:	1521 bp
RefSeq ORF:	657 bp

Locus ID:	6324
UniProt ID:	Q07699
Cytogenetics:	19q13.11
Domains:	ig
Protein Families:	Druggable Genome, Ion Channels: Sodium, Transmembrane
Gene Summary:	<p>Voltage-gated sodium channels are heteromeric proteins that function in the generation and propagation of action potentials in muscle and neuronal cells. They are composed of one alpha and two beta subunits, where the alpha subunit provides channel activity and the beta-1 subunit modulates the kinetics of channel inactivation. This gene encodes a sodium channel beta-1 subunit. Mutations in this gene result in generalized epilepsy with febrile seizures plus, Brugada syndrome 5, and defects in cardiac conduction. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2009]</p> <p>Transcript Variant: This variant (a) represents the longer transcript but encodes the shorter isoform (a).</p>