

Product datasheet for **RG222161**

SCN1B (NM_199037) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCN1B (NM_199037) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SCN1B
Synonyms:	ATFB13; BRGDA5; DEE52; EIEE52; GEFSP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222161 representing NM_199037 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAGGCTGCTGGCCTTAGTGGTCGGCGGGCACTGGTGTCTCAGCCTGCGGGGGCTGCGTGGAGG
TGGACTCGGAGACCGAGGCCGTGTATGGGATGACCTTCAAATTTTTCATCTCCTGCAAGCGCCGAG
CGAGACCAACGCTGAGACCTTACCAGTGGACCTTCCGCCAGAAGGGCACTGAGGAGTTTGTCAAGATC
CTGCGCTATGAGAATGAGGTGTTGCAGCTGGAGGAGGATGAGCGCTTCGAGGGCCGCTGGTGTGAATG
GCAGCCGGGGACCAAAGACCTGCAGGATCTGTCTATCTTCATCACCAATGTCACCTACAACCACTCGGG
CGACTACGAGTGCCACGTCTACCGCTGCTCTTCTCGAAAACACGAGCACAACACCAGCGTCGTCGAA
AAGATCCACATTGAGGTAGTGGACAAAGGTGAGTCGGGTGCTGCCTGCCCTTTACCGTCAACCCACCGGA
GAGCCAGATGGAGGGACAGATGGCAGGCAGTGGACAGGACAGGCTGGCTCTGTGCCTGGCCAGCCAAACCG
CCCACAGCAGCGGGCTGAGGGGGAGGGGAGCAGCCCTCCTGCCACTCCAGCTCTGGCCTCTGTTTCTC
TCCAGCCCACGGAGAGGTCAAAGCATGCCTGTCCCCACAGACGCTCCGGGTACAGAACCAGCTCTGTC
ACCTGTGCTGTATGACCTCTGGCAGGTGCCTTCTGTCTCTGAGCCAAAGGTTGTCTGGGCTTGCCCGG
GATAAATCCGATGTGTTTCTCGGGGTGTGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222161 representing NM_199037
 Red=Cloning site Green=Tags(s)

MGRLLALVVGAAALVSSACGGCVEVDSETEAVYGMTEFKILCISCKRRSETNAETTFTEWTFRQKGTEEFVKI
 LRYENEVLQLEEDERFEGRVVWNGSRGTDLQDLSIFITNVTYNHSGDYECHVYRLLFFENYEHNSTSVVK
 KIHIEVVDKGESGAACPFTVTHRRARWRDRWQAVDRTGWLCAWPANRPQQRAGEGSSPSCPLQLWPLFL
 SSPRRGQSMPVPHRRSGYRTQLCHLCCMTSGRCLLSLSQRVVLGLPGIIRCVSRGVV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_199037

ORF Size: 804 bp

OTI Disclaimer: 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: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_199037.5](#)

RefSeq Size: 1170 bp

RefSeq ORF: 807 bp

Locus ID: 6324

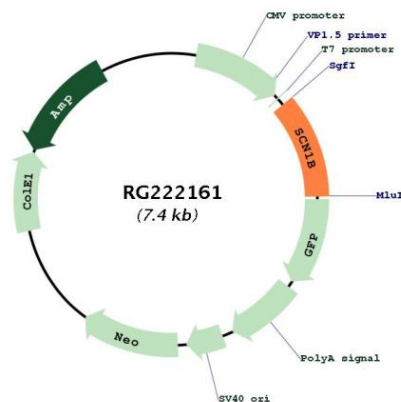
UniProt ID: [Q07699](#)

Cytogenetics: 19q13.11

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

Gene Summary: 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]

Product images:



Circular map for RG222161