

Product datasheet for **RG224237**

SCN3B (NM_018400) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SCN3B (NM_018400) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SCN3B
Synonyms: ATFB16; BRGDA7; HSA243396; SCN3B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG224237 representing NM_018400
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGCCTTCAATAGATTGTTTCCCCTGGCTTCTCTCGTGCTTATCTACTGGGTCAGTGTCTGCTTCC
CTGTGTGTGTGGAAGTGCCTCGGAGACGGAGGCCGTGCAGGGCAACCCCATGAAGCTGCGCTGCATCTC
CTGCATGAAGAGAGAGGAGGTGGAGGCCACCACGGTGGTGAATGGTTCTACAGGCCGAGGGCGGTAAA
GATTTCTTATTTACGAGTATCGGAATGGCCACCAGGAGGTGGAGAGCCCTTTCAGGGCGCCTGCAGT
GGAATGGCAGCAAGGACCTGCAGGACGTGCCATCACTGTGCTCAACGTCCTCTGAACGACTCTGGCCT
CTACACCTGCAATGTGTCCCGGAGTTTGAGTTTGAGGCGCATCGGCCCTTGTGAAGACGACGCGGCTG
ATCCCCCTAAGAGTCACCGAGGAGGCTGGAGAGGACTTCACTCTGTGGTCTCAGAAATCATGATGTACA
TCCTTCTGGTCTTCTCACCTTGTGGCTGCTCATCGAGATGATATATTGCTACAGAAAGGTCTCAAAGC
CGAAGAGGCAGCCCAAGAAAACGCGTCTGACTACCTTGCCATCCCATCTGAGAACAAGGAGAAGCTCTGCC
GTACCAGTGGAGGAA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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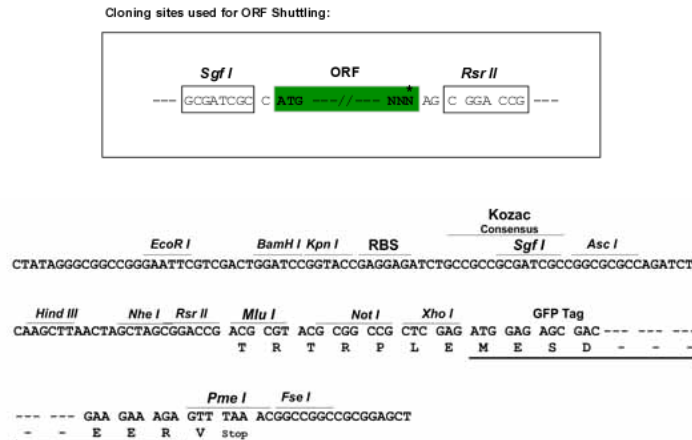
Protein Sequence: >RG224237 representing NM_018400
 Red=Cloning site Green=Tags(s)

MPAFNRLFPLASLVLIIYWVSVCFVVCVEVPSETEAVQGNPMLKRCISCMKREEVEATTVVEWFYRPEGGK
 DFLIYEYRNGHQEVESPFQGRQLQWNGSKDLQDVSITVLNVTLNDSGLYTCNVSREFEFEAHRPFVKTRRL
 IPLRVTEEAGEDFTSVVSEIMMYILLVFLTLWLLIEMIYCYRKVSKAEAAQENASDYLAIPSENKENS
 A VPVEE

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_018400

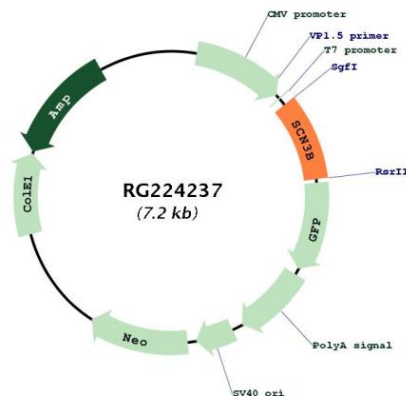
ORF Size: 645 bp

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](#)

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:	<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_018400.4</u>
RefSeq Size:	6081 bp
RefSeq ORF:	648 bp
Locus ID:	55800
UniProt ID:	<u>Q9NY72</u>
Cytogenetics:	11q24.1
Domains:	ig, IG
Protein Families:	Druggable Genome, Ion Channels: Sodium, Transmembrane
Gene Summary:	Voltage-gated sodium channels are transmembrane glycoprotein complexes composed of a large alpha subunit and one or more regulatory beta subunits. They are responsible for the generation and propagation of action potentials in neurons and muscle. This gene encodes one member of the sodium channel beta subunit gene family, and influences the inactivation kinetics of the sodium channel. Two alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG224237