

Product datasheet for RC224237

SCN3B (NM 018400) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SCN3B (NM_018400) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: SCN3B

Synonyms: ATFB16; BRGDA7; HSA243396; SCNB3

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC224237 representing NM_018400

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GTACCAGTGGAGGAA

 ${\bf AGCGGACCG} {\tt ACGCGGCCGCCCGCCCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC}$

TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC224237 representing NM_018400

Red=Cloning site Green=Tags(s)

MPAFNRLFPLASLVLIYWVSVCFPVCVEVPSETEAVQGNPMKLRCISCMKREEVEATTVVEWFYRPEGGK DFLIYEYRNGHQEVESPFQGRLQWNGSKDLQDVSITVLNVTLNDSGLYTCNVSREFEFEAHRPFVKTTRL IPLRVTEEAGEDFTSVVSEIMMYILLVFLTLWLLIEMIYCYRKVSKAEEAAQENASDYLAIPSENKENSA

VPVEE

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDK**V**

Chromatograms: https://cdn.origene.com/chromatograms/mk6189 b04.zip

Restriction Sites: Sgfl-Rsrll

Cloning Scheme:



CTATAGGGCGGC	_ECORI_ ATAGGGCGGCCGGGAATTCGTCC					BamHI Kpn I RBS						Kozac Consensus Sgf1							
ORF	AGC S	Rs. GGA G	rII CCG P		lu I CGT R	ACG T	No CGC R		_	ho / GAG E	CAG Q	AA.F K		.Tag ATC	TCA S	. GAA E	GAG E		
GAT CTG GCA DLA	GCA A	AAT N	GAT D	ATC I	CTG L	GAT D		Flag.Ta AAG K	-	GAC D	GAC D	GAT D	AAG K	GTT V	me I TAA Stop	ACGG	se / ccggc		

^{*} The last codon before the Stop codon of the ORF

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 customercom 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

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: <u>NM 018400.4</u>

 RefSeq Size:
 6081 bp

 RefSeq ORF:
 648 bp

 Locus ID:
 55800

 UniProt ID:
 Q9NY72

 Cytogenetics:
 11q24.1

 Domains:
 ig, IG

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

MW: 22.1 kDa

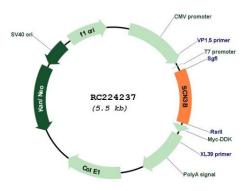
Gene Summary: Voltage-gated sodium channels are transmembrane glycoprotein complexes composed of a

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,

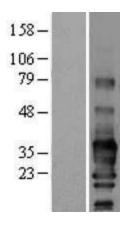
have been identified. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC224237



Western blot validation of overexpression lysate (Cat# [LY402676]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224237 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).