

Product datasheet for **RC223114**

SCN3B (NM_001040151) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SCN3B (NM_001040151) 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 Sequence: >RC223114 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGCCTTCAATAGATTGTTTCCCCTGGCTTCTCTCGTGCTTATCTACTGGGTCAGTGTCTGCTTCC
CTGTGTGTGGAAGTGCCCTCGGAGACGGAGGCCGTGCAGGGCAACCCCATGAAGCTGCGCTGCATCTC
CTGCATGAAGAGAGAGGAGGTGGAGGCCACCACGGTGGTGAATGGTTCTACAGGCCGAGGGCGGTAA
GATTTCTTATTTACGAGTATCGGAATGGCCACCAGGAGGTGGAGAGCCCTTTCAGGGCGCCTGCAGT
GGAATGGCAGCAAGGACCTGCAGGACGTGCCATCACTGTGCTCAACGTCCTGAACGACTCTGGCCT
CTACACCTGCAATGTGTCCCGGAGTTTGAGTTTGAGGCGCATCGGCCCTTGTGAAGACGACGCGGCTG
ATCCCCCTAAGAGTCACCGAGGAGGCTGGAGAGGACTTCACTCTGTGGTCTCAGAAATCATGATGTACA
TCCTTCTGGTCTTCTCACCTTGTGGCTGCTCATCGAGATGATATATTGCTACAGAAAGGTCTCAAAGC
CGAAGAGGCAGCCCAAGAAAACGCGTCTGACTACCTTGCCATCCCATCTGAGAACAAGGAGAAGCTGCG
GTACCAAGTGGAGGAA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC223114 protein sequence
 Red=Cloning site Green=Tags(s)

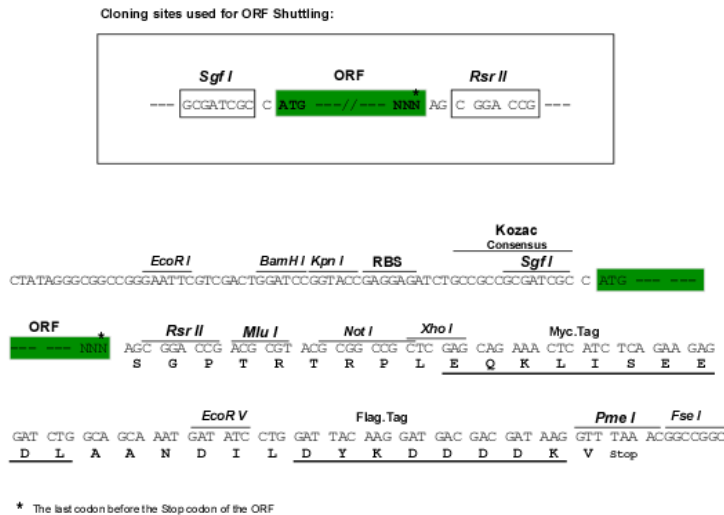
MPAFNRLFPLASLVLIYWVSVCFVVCVEVPSETEAVQGNPMLKRCISCMKREEVEATTVVEWFYRPEGGK
 DFLIYEYRNGHQEVESPFQGLQWNGSKDLQDVSITVLNVTLNDSGLYTCNVSREFEFEAHRPFVKTRRL
 IPLRVTEEAGEDFTSVVSEIMMYILLVFLTLWLLIEMIYCYRKVSKAEAAQENASDYLAIPSENKENS
 VPVEE

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6189_b04.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001040151

ORF Size: 645 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_001040151.2](#)

RefSeq Size: 5682 bp

RefSeq ORF: 648 bp

Locus ID: 55800

UniProt ID: [Q9NY72](#)

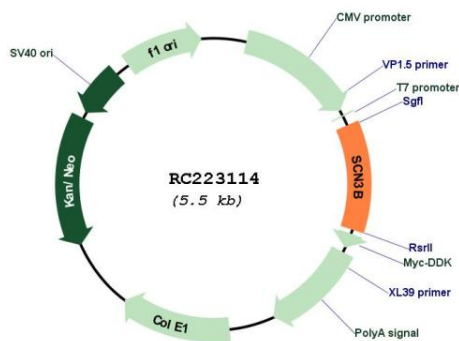
Cytogenetics: 11q24.1

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

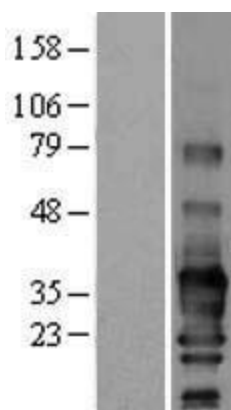
MW: 24.7 kDa

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]

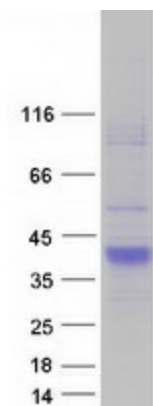
Product images:



Circular map for RC223114



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]).



Coomassie blue staining of purified SCN3B protein (Cat# [TP323114]). The protein was produced from HEK293T cells transfected with SCN3B cDNA clone (Cat# RC223114) using MegaTran 2.0 (Cat# [TT210002]).