

Product datasheet for RC227554

SCN4B (NM 001142348) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SCN4B (NM_001142348) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: SCN4B

Synonyms: ATFB17; LQT10; Navbeta4

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >RC227554 representing NM_001142348
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCCCGGGGCTGGGGACGGAGGCAAAGCCCCGGCGAGATGGCTGGGCACTGGGCTTTTGGTGGAAGAAG
TGGACAACACAGTGACACTCATCCTGGCTGTCGTGGGCGGGGTCATCGGGCTCCTCATCCT
GCTGATCAAGAAACTCATCATCTTCATCCTGAAGAAGAACTCGGGAGAAGAAGAAGAAGAGTGTCTCGTGAGC
TCCTCGGGGAATGACAACACGGAGAACGGCTTGCCTGGCTCCAAGGCAGAGGAGAAACCACCTTCAAAAG

TG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227554 representing NM_001142348

Red=Cloning site Green=Tags(s)

MPGAGDGGKAPARWLGTGLLVEEVDNTVTLIILAVVGGVIGLLILILLIKKLIIFILKKTREKKKECLVS

SSGNDNTENGLPGSKAEEKPPSKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

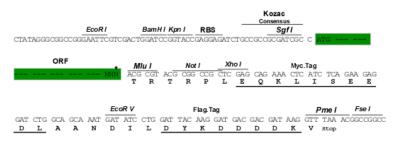
CN: techsupport@origene.cn

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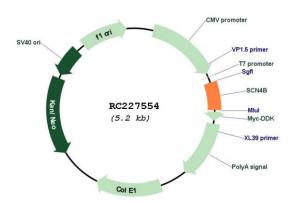
Cloning Scheme:





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

Plasmid Map:



ACCN: NM_001142348

ORF Size: 282 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



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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 001142348.2</u>

 RefSeq ORF:
 285 bp

 Locus ID:
 6330

 UniProt ID:
 Q8IWT1

 Cytogenetics:
 11q23.3

Protein Families: Ion Channels: Sodium, Transmembrane

MW: 9.7 kDa

Gene Summary: The protein encoded by this gene is one of several sodium channel beta subunits. These

subunits interact with voltage-gated alpha subunits to change sodium channel kinetics. The encoded transmembrane protein forms interchain disulfide bonds with SCN2A. Defects in this gene are a cause of long QT syndrome type 10 (LQT10). Three protein-coding and one non-coding transcript variant have been found for this gene.[provided by RefSeq, Mar 2009]