

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

**ATGCCCGGGCTGGGACGGAGGCAAAGCCCCGGCGAGATGGCTGGGCACTGGGCTTTTGGTGAAGAAG
TGGACAACACAGTGACACTCATCATCCTGGCTGTCGTGGGCGGGTTCATCGGGCTCCTCATCCTCATCCT
GCTGATCAAGAACTCATCATCTTCATCCTGAAGAAGACTCGGGAGAAGAAGAAGGAGTGTCTCGTGAGC
TCCTCGGGAATGACAACACGGAGAACGGCTTGCCTGGCTCCAAGGCAGAGGAGAAACCACCTTCAAAG
TG**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RC227554 representing NM_001142348
Red=Cloning site Green=Tags(s)

MPGAGDGGKAPARWLGTGLLVEEVDNTVTLIILAVVGGVIGLLILILLIKKLIIFILKKTREKKKECLVS
SSGNDNTENGLPGSKAEKPPSKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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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:	<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_001142348.2</u>
RefSeq ORF:	285 bp
Locus ID:	6330
UniProt ID:	<u>Q8IWT1</u>
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]