

Product datasheet for **RG227560**

SCN4B (NM_001142349) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SCN4B (NM_001142349) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SCN4B
Synonyms: ATFB17; LQT10; Navbeta4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227560 representing NM_001142349
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACAACATTTCCATTGTGCTGAGGGACCTGGAGTTCAGCGACACGGGCAAATACACCTGCCATGTGA
AGAACCCCAAGGAGAATAATCTCCAGCACCACGCCACCATCTTCCTCCAAGTCGTTGATAGACTGGAAGA
AGTGGACAACACAGTGACTCATCATCCTGGCTGTCGTGGCGGGGTATCGGGCTCCTCATCCTCATC
CTGCTGATCAAGAACTCATCATCTTCATCCTGAAGAAGACTCGGAGAAGAAGAAGGAGTGTCTCGTGA
GCTCCTCGGGGAATGACAACACGGAGAACGGCTTGCCCTGGCTCCAAGGCAGAGGAGAACCACCTTCAA
AGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227560 representing NM_001142349
Red=Cloning site Green=Tags(s)
MNNISIVLRDLEFSDTGKYTCHVKNPKENLQHHATIFLQVVDRLLEEVDNTVTLIILAVVGGVIGLLILI
LLIKKLIIFILKKTREKKKECLVSSSGNDNTENGLPGSKAEKPPSKV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

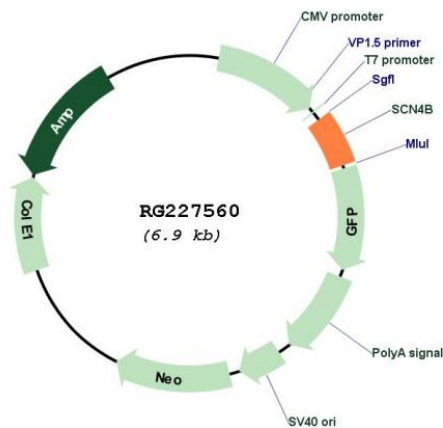


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001142349

ORF Size: 354 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:	<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_001142349.2</u>
RefSeq Size:	4516 bp
RefSeq ORF:	357 bp
Locus ID:	6330
UniProt ID:	<u>Q8IWT1</u>
Cytogenetics:	11q23.3
Protein Families:	Ion Channels: Sodium, Transmembrane
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]