

Product datasheet for **RN215977**

Scn1b (NM_001271046) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Scn1b (NM_001271046) Rat Untagged Clone
Tag: Tag Free
Symbol: Scn1b
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN215977 representing NM_001271046
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCTCAAATCCTGTGTATCTCTGTAAAGCGTCGTAGTGAGACCACCGCCGAGACCTTCACGGAGT
GGACCTCCGCCAGAAGGGCACAGAGGAATTTGTCAAGATCCTACGCTATGAGAATGAGGTGCTGCAGCT
GGAGGAAGATGAGCGCTTTGAGGGCCGTGGTGTGGAACGGTAGTCGGGGCACCAAGGACCTGCAGGAC
CTGTCCATCTTACCAATGTACCTACAACCACTCTGGCGACTACGAATGTACAGTCTACCGTCTCC
TCTTCTTTGATAATTACGAGCACAAACACCGCTCGTCAAGAAGATCCACCTGGAGGTGGTGACAAGGC
CAACAGAGATATGGCATCCATCGTGTGAGAGATCATGATGACGTGCTCATTGTGGTGTAAACCATATGG
CTCGTGGCGGAGATGGTGTACTGCTACAAGAAGATTGCTGCTGCCACGGAAGCTGCTGCACAAGAGAATG
CCTCGGAATACCTGGCCATTACTCCGAGAGCAAAGAACTGTACAGGCGTCCAGGTGGCTGAA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001271046
Insert Size: 558 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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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_001271046.2</u> , <u>NP_001257975.1</u>
RefSeq Size:	1281 bp
RefSeq ORF:	558 bp
Locus ID:	29686
Cytogenetics:	1q21
Gene Summary:	<p>has voltage sensitive sodium channel activity when coexpressed with alpha subunits; plays a role in initiation and propagation of the action potential [RGD, Feb 2006]</p> <p>Transcript Variant: This variant (3) contains an alternate exon in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1.</p> <p>Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>