

Product datasheet for **RR215977**

Scn1b (NM_001271046) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Scn1b (NM_001271046) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Scn1b
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215977 representing NM_001271046
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCTCAAATCCTGTGTATCTCCTGTAAGCGTCGTAGTGAGACCACCGCCGAGACCTTCACGGAGT
GGACCTCCGCCAGAAGGGCACAGAGGAATTTGTCAAGATCCTACGCTATGAGAATGAGGTGCTGCAGCT
GGAGGAAGATGAGCGCTTTGAGGGCCGTGGTGTGGAACGGTAGTCGGGGCACCAAGGACCTGCAGGAC
CTGTCCATCTTCATACCAATGTACACTACAACCACTCTGGCGACTACGAATGTCACGTCTACCGTCTCC
TCTTCTTTGATAATTACGAGCACAAACACCGCTCGTCAAGAAGATCCACCTGGAGGTGGTGGACAAGGC
CAACAGAGATATGGCATCCATCGTGTGAGAGATCATGATGACGTGCTCATTGTGGTGTAAACCATATGG
CTCGTGGCGGAGATGGTGTACTGCTACAAGAAGATTGCTGCTGCCACGGAAGCTGCTGCACAAGAGAATG
CCTCGGAATACCTGGCCATTACTCCGAGAGCAAAGAACTGTACAGGCGTCCAGGTGGCTGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215977 representing NM_001271046
Red=Cloning site **Green**=Tags(s)

MTFKILCISCKRRSETTAETFTTEWTFRQKGTEEFVKILRYENEVLQLEEDERFEGRVVWNGSRGTDLQD
LSIFITNVYNHSGDYECHVYRLLFFDNYEHNTSVVKKIHLEVDKANRDMASIVSEIMMYVLIVLTIW
LVAEMVYCYKKIAAATEAAAQENASEYLAITSESKENCTGVQVAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

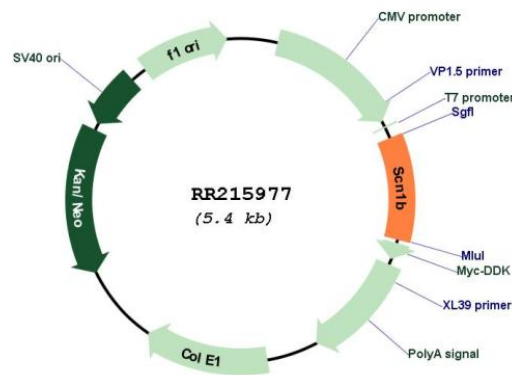


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001271046

ORF Size: 555 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_001271046.2, NP_001257975.1</u>
RefSeq Size:	1281 bp
RefSeq ORF:	558 bp
Locus ID:	29686
Cytogenetics:	1q21
MW:	21.4 kDa
Gene Summary:	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]