

Product datasheet for **MR202467**

Scn1b (NM_011322) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Scn1b (NM_011322) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Scn1b
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202467 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGACGCTGCTGGCTCTCGTGGTGGGCGGGCGCTGGTATCCTCAGCCTGGGGGGGCTGCGTGGAGG
TGGATCCGATACCGAGGCTGTGTATGGGATGACCTTCAAATCCTGTGCATCTCCTGTAAGCGTCGTAG
TGAGACCACCGCCGAAACCTTACGGAGTGGACCTCCGCCAGAAGGGGACAGAGGAATTTGTCAAGATC
CTACGCTATGAGAATGAGGTGCTGCAGCTGGAGGAAGATGAGCGCTTTGAGGGCCGAGTGGTGTGGAACG
GTAGTCGGGGCACCAAGGACCTGCAGGACCTGTCCATCTTCATCACCAACGTCACCTACAACCCTCTGG
CGACTACGAATGTCACGTCTACCGTCTCCTCTTTGATAATTATGAGCACAAACCAGCGTCGTCAAG
AAGATCCACCTGGAGGTGGTGGACAAGGCCAACAGAGATATGGCATCCATCGTGTGAGAGATCATGATGT
ACGTGCTCATTGTGGTGTGACCATATGGCTTGTGGCAGAGATGGTGTACTGCTACAAGAAGATTGCTGC
TGCTACGGAGGCTGCTGCACAAGAGAACGCCTCAGAATACCTGGCCATTACATCCGAGAGCAAAGAAAAC
TGTACAGGCGTCCAGGTGGCTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202467 protein sequence
Red=Cloning site Green=Tags(s)

MGTLALVVGAAALVSSAWGGCIVEVSDTEAVYGMTFKILCISCKRRSETTAETFTWTFRQKGTEEFVKI
LRYENEVLQLEEDERFEGRVVWNGSRGKDLQDLSIFITNVTYNHSGDYECHVYRLLFFDNYEHNTSVVK
KIHLEVDKANRDMASIVSEIMMYVLIVLTIWLVAEMVYCYKKIAAATEAAAQENASEYLAITSESKEN
CTGVQVAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011322

ORF Size: 657 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:

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: [NM_011322.3](#)

RefSeq Size: 1568 bp

RefSeq ORF: 657 bp

Locus ID: 20266

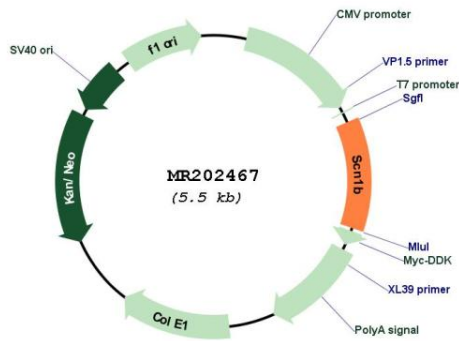
UniProt ID: [P97952](#)

Cytogenetics: 7 19.3 cM

MW: 24.7 kDa

Gene Summary: Regulatory subunit of multiple voltage-gated sodium channel complexes that play important roles in excitable membranes in brain, heart and skeletal muscle. Enhances the presence of the pore-forming alpha subunit at the cell surface and modulates channel gating characteristics and the rate of channel inactivation. Modulates the activity of a variety of pore-forming alpha subunits, such as SCN1A, SCN2A, SCN3A, SCN4A, SCN5A and SCN10A. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202467