

Product datasheet for MR202361

Scn2b (BC092225) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Scn2b (BC092225) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Scn2b |
| Synonyms: | 2810451E09Rik; AI840361; Gm183 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR202361 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACAGGGATGCCTGGCTACCTCGCCCTGCCTTCAGTCTCACGGGGCTCAGTCTGTTTTCTCTTTGG
TGCCCCGGGGCGGAGCATGGAAGTACAGCGCCACCACTCTTAGTGTCCCTCAATGGGTCGATACCCG
CCTGCCCTGTACCTTCAACTCCTGCTACACCGTGAACCACAAGCAGTTCTCTTAACTGGACTTACCAG
GAGTGTAACAATTGCACAGAGGAGATGTTCCCTCCAGTTCGAATGAAGATCATTAACTGAAGCTGGAGC
GGTTTGGAGACCGGTGGAGTTCTCAGGGAACCCAGTAAGTACGACGTGTCAGTGACTTAAAGAACGT
GCAGCTAGAAGACGAAGGCATTTACAACCTGCTACATTACCAACCTCCAGACCGCCACCGGCCACGGC
AAGATTTACCTGCAGGTCCTTCTAGAAGTACCCCGAGAGCGGGACTCCACGGTGGCGGTCATCGTGGGTG
CCTCAGTGGGGGTTTCTGGCTGTGGTCATCTTGGTGTGATGGTGGTCAAATGTGTGAGGAGGAAAAA
AGAGCAGAAGCTGAGCAGGATGACCTGAAGACTGAAGAGGAAGGCAAGATGGATGGTGGAGGCAACGCG
GAAGATGGCACCAG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202361 protein sequence
Red=Cloning site Green=Tags(s)

MHRDAWLPRPAFSLTGLSLFFSLVPPGRSMEVTAPTTLSVLNGSDTRLPCTFNSCYTVNHKQFSLNWTYQ
 ECNNCTEEMFLQFRMKIINLKLRFGDRVEFSGNPSKYDVSVTLKNVQLEDEGIYNCYITNPPDRHRGHG
 KIYLQVLLVPPERDSTVAVIVGASVGGFLAVVILVLMVVKCVRRKKEQKLSTDDLKTEEEGKMDGEGNA
 EDGTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC092225

ORF Size: 645 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: [BC092225](#), [AAH92225](#)

RefSeq Size: 3980 bp

RefSeq ORF: 647 bp

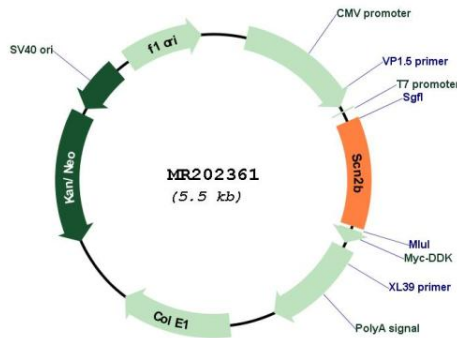
Locus ID: 72821

Cytogenetics: 9 24.84 cM

MW: 24.2 kDa

Gene Summary: Crucial in the assembly, expression, and functional modulation of the heterotrimeric complex of the sodium channel. The subunit beta-2 causes an increase in the plasma membrane surface area and in its folding into microvilli. Interacts with TNR may play a crucial role in clustering and regulation of activity of sodium channels at nodes of Ranvier (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202361