

Product datasheet for MR222959

Scn2b (NM_001014761) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scn2b (NM_001014761) 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:	>MR222959 representing NM_001014761 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGCACAGGGATGCCTGGCTACCTCGCCCTGCCTTCAGTCTCACGGGGCTCAGTCTGTTTTCTCTTTGGTCCCCCGGGGCGGAGCATGGAAGTCACAGCGCCACCACTCTTAGTGTCCCTCAATGGGTCCGATACCCGCTGCCCTGTACCTTCAACTCCTGCTACACCGTGAACCACAAGCAGTTCTCTTAACTGGACTTACCAGGAGTGTAACAATTGCACAGAGGAGATGTTCCCTCCAGTTCGAATGAAGATCATTAACTGAAGCTGGAGCGTTTTGGAGACCGCGTGGAGTTCTCAGGGAACCCAGTAAGTACGACGTGTCAGTGACTCTAAAGAACGTGCAGCTAGAAGACGAAGGCATTTACAACCTGCTACATTACCAACCCCTCCAGACCGCCACCGCGCCACGGCAAGATTTACCTGCAGGTCCTTCTAGAAGTACCCCGAGAGCGGGACTCCACGGTGGCGGTCATCGTGGGTGCCTCAGTGGGGGTTTCTGGCTGTGGTCATCTTGGTGTGATGGTGGTCAAATGTGTGAGGAGGAAAAAGAGCAGAAGCTGAGCAGGATGACCTGAAGACTGAAGAGGAAGGCAAGATGGATGGTGAGGGCAACCGCGAAGATGGCACCAAG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222959 representing NM_001014761
 Red=Cloning site Green=Tags(s)

MHRDAWLPRPAFSLTGLSLFFSLVPPGRSMEVTAPTTSLVINGSDTRLPCTFNSCYTVNHKQFSLNWTYQ
 ECNNCTEEMFLQFRMKIINLKLRFGRVDFSGNPSKYDVSVTLKNVQLEDEGIYNCYITNPPDRHRHG
 KIYLQVLLVPPERDSTVAIVIGASVGGFLAVVILVLMVVKCVRRKKEQKLTDDLLKTEEEKMDGEGNA
 EDGTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9030_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001014761

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: [NM_001014761.2](#), [NP_001014761.1](#)

RefSeq Size: 4562 bp

RefSeq ORF: 648 bp

Locus ID: 72821

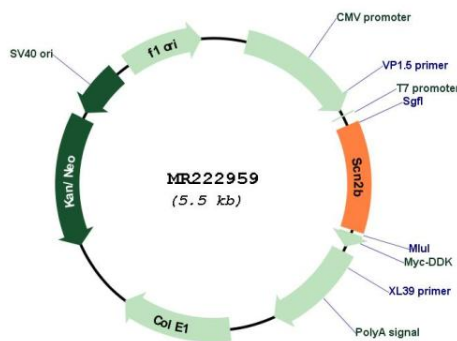
UniProt ID: [Q56A07](#)

Cytogenetics: 9 24.84 cM

MW: 24.7 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 MR222959