

Product datasheet for **RN205391**

Scn2b (NM_012877) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scn2b (NM_012877) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Scn2b
Synonyms:	SCNB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN205391 representing NM_012877 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACAGGGATGCCTGGCTACCTCGCCCTGCCTCAGCCTCACGGGGCTCAGTCTGTTTTCTCTTTGG
TGCCCTCGGGCGGAGCATGGAAGTCACAGTCCCCACCACTCTTAGTGTCCCTCAACGGGTCTGATACCCG
CCTGCCCTGTACCTTCAACTCCTGCTATACCGTGAACCACAAGCAGTTCTCTGAACTGGACTTACCAG
GAGTGTAGCAATTGCTCAGAGGAGATGTTCCCTCCAGTCCGAATGAAGATCATCAACCTGAAGCTGGAGC
GGTTTGGAGACCGCGTAGAGTTCTCGGGGAACCCAGTAAGTACGACGTGTCAGTGACTTAAAGAACGT
GCAGCTAGAAGACGAAGGCATTTACAACCTGCTACATCACCAACCTCCAGACCGCCACCGTGGCCATGGC
AAGATCTACCTGCAGGTCCTTCTAGAAGTGCCCCAGAGCGGGACTCCACGGTGGCAGTCATCGTGGGTG
CCTCAGTGGGGGTTTCTCGGCTGTGGTATCTTGGTGTGATGGTGGTCAAATGTGTGAGGAGGAAAAA
AGAGCAGAAGCTGAGCACGGATGACCTGAAGACCGAAGAGGAAGGCAAGACGGATGGCGAGGGCAACGCG
GAAGATGGCGCCAAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms:	https://cdn.origene.com/chromatograms/ja1546_b06.zip
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_012877
Insert Size:	648 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_012877.1](#), [NP_037009.1](#)

RefSeq Size: 873 bp

RefSeq ORF: 648 bp

Locus ID: 25349

UniProt ID: [P54900](#)

Cytogenetics: 8q22

Gene Summary: forms a voltage gated sodium channel with alpha subunit; may modulate sodium channel expression in neurons [RGD, Feb 2006]