

Product datasheet for RC209565

SCN1B (NM_001037) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCN1B (NM_001037) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SCN1B
Synonyms:	ATFB13; BRGDA5; DEE52; EIEE52; GEFSP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209565 representing NM_001037 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAGGCTGCTGGCCTTAGTGGTCGGCGGGCACTGGTGTCTCAGCCTGCGGGGGCTGCGTGGAGG
TGGACTCGGAGACCGAGGCCGTGTATGGGATGACCTTCAAATTTCTTTCATCTCCTGCAAGCGCCGAG
CGAGACCAACGCTGAGACCTTACCGAGTGGACCTTCCGCCAGAAGGGCACTGAGGAGTTTGTCAAGATC
CTGCGCTATGAGAATGAGGTGTTGCAGCTGGAGGAGGATGAGCGCTTCGAGGGCCCGTGGTGTGAATG
GCAGCCGGGGACCAAAGACCTGCAGGATCTGTCTATCTTCATCACCAATGTCACCTACAACCACTCGGG
CGACTACGAGTGCCACGTCTACCGCCTGCTCTTCTCGAAAACACGAGCACAACACCAGCGTCGTCGAA
AAGATCCACATTGAGGTAGTGGACAAAGCCAACAGAGACATGGCATCCATCGTGTCTGAGATCATGATGT
ATGTGCTCATTGTGGTGTGACCATATGGCTCGTGGCAGAGATGATTTACTGCTACAAGAAGATCGCTGC
CGCCACGGAGACTGCTGCACAGGAGAAATGCCTCGGAATACCTGGCCATCACCTCTGAAAGCAAAGAGAAC
TGCACGGGCGTCCAGGTGGCCGAA

ACGCGTACGCGGGCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209565 representing NM_001037
 Red=Cloning site Green=Tags(s)

MGRLLALVVGAAALVSSACGGCVEVDSETEAVYGMFKILCISCKRRSETNAETFTTEWTFRQKGTEEFVKI
 LRYENEVLQLEEDERFEGRVVWNGSRGTDKLDLSIFITNVTYNHSGDYECHVYRLLFFENYEHNTSVVK
 KIHIEVVDKANRDMASIVSEIMMYVLIVLTIWLVAEMIYCYKKIAAATETAQAENASEYLAITSESKEN
 CTGVQVAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1461_c01.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_001037

ORF Size: 654 bp

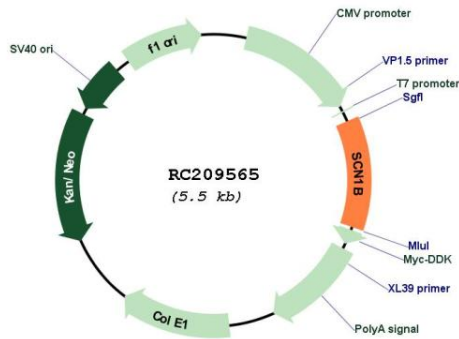
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

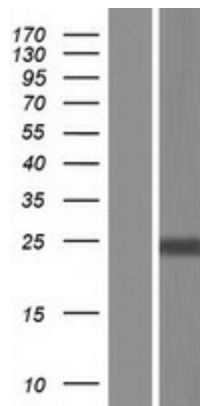
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001037.5
RefSeq Size:	1521 bp
RefSeq ORF:	657 bp
Locus ID:	6324
UniProt ID:	Q07699
Cytogenetics:	19q13.11
Domains:	ig
Protein Families:	Druggable Genome, Ion Channels: Sodium, Transmembrane
MW:	24.5 kDa
Gene Summary:	Voltage-gated sodium channels are heteromeric proteins that function in the generation and propagation of action potentials in muscle and neuronal cells. They are composed of one alpha and two beta subunits, where the alpha subunit provides channel activity and the beta-1 subunit modulates the kinetics of channel inactivation. This gene encodes a sodium channel beta-1 subunit. Mutations in this gene result in generalized epilepsy with febrile seizures plus, Brugada syndrome 5, and defects in cardiac conduction. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2009]

Product images:



Circular map for RC209565



Western blot validation of overexpression lysate (Cat# [LY422145]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209565 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).