

Product datasheet for **MC229685**

Scn10a (NM_001205321) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Scn10a (NM_001205321) Mouse Untagged Clone
Tag: Tag Free
Symbol: Scn10a
Synonyms: Nav1.8; PN3; SNS
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229685 representing NM_001205321
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGAGTTCGCCCTTTGGGTCCGTGGAACTACCAACTTCAGACGGTTCCTCCAGAGTCGCTGGCAGAGA
 TCGAGAAGCAGATCGCTGCCACCGCGCCGCAAGAAGGGCAGACCTAAGCAAAGAGGACAGAAGGACAA
 GAGTGAGAAGCCAGGCCTCAGTTGGACTTGAAGGCCTGTAACCAGCTGCCAGGTTCTATGGCAGCTC
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 CCTGATCAGAAGAAGCAGCCATCAAAGTGTCCGTCCTACTCCTGGTCTCCATATTTACTGTCCTACTATT
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 CTTTCTTCTGGAAGACGCAGGGCTAGCCACAGCAGTGTGTTCCACTTCCGAGCACCCAGCCAAGACGTCT



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CATTTCCTGATGGGATCTTGGATGACGGGGTCTTTCATGGAGATCAGGAAAGCCGTCGAAGTTCCATATT
 GCTGGGCAGGGGTGCCGGGCAGGCAGGTCTCTCCCCAGGAGTCCACTGCCTCAGTCCCCAACCCCTGGC
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 GTCTTTCATATTTTCGGTGGCTTCTTTCAGCTGAATCTCTTGTGCGGGTCACTTACCAACTCAATC
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 CCCAACCGGCCAACAGCAATGGCTCCAAGGGGAATTGTGAAGCCAGCGGTGGGCATCCTCTTCTTCA
 CCACCTACATCATCTCTTCTCCTCATCGTGGTCAACATGTACATTGCAGTATTCTGGAGAACTTCAA

TGTGGCCACAGAAGAGAGCACGGAGCCCTGAGCGAGGACGACTTTGACATGTTCTATGAGACCTGGGAG
AAGTTTGACCCGGAGGCCACCCAGTTTCATTGCCTTTTCTGCCCTCTCAGACTTTGCAGACACACTCTCTG
GCCCTCTAGAATCCCAAAACCTAATCAGAATATATTAATCCAGATGGACCTGCCGTTGGTCCCCGGAGA
TAAGATCCACTGTTTGGACATCCTCTTTGCCTTCACAAAGAATGTCTTGGGAGAATCTGGGGAGTTGGAT
TCTCTGAAGACTAATATGGAAGAGAAGTTTATGGCAACTAATCTTTCAAAGCATCTATGAACCAATAG
CAACCACCCTCCGGTCAAGCAGGAAGACATCTCAGCCACCATTATTCAAAAGGCCTATCGGAACACTACAT
GTTGCAACGCTCCTTGATGCTCTCCAACCCCTGCATGTGCCAGGGCTGAGGAGGATGGCGTGTCACTC
CCCAGGGAAGGCTATGTTACATTTCATGGCAAATGACAACGGTGGGCTCCAGACAAATCGGAAACTGCTT
CTGCTACGTCTTTCCACCATCCTATGACAGCGTCACCAGGGGCTGAGTGACAGGGCCAACATTAGCAC
ATCTAGCTCAATGCAAAATGAAGATGAAGTCACTGCTAAGGAAGGGAAGAGCCCTGGACCTCAGTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-RsrII
ACCN:	NM_001205321
Insert Size:	5877 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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.
RefSeq:	<u>NM_001205321.1</u> , <u>NP_001192250.1</u>
RefSeq Size:	6416 bp
RefSeq ORF:	5877 bp
Locus ID:	20264
Cytogenetics:	9 71.33 cM

Gene Summary:

Tetrodotoxin-resistant channel that mediates the voltage-dependent sodium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a sodium-selective channel through which sodium ions may pass in accordance with their electrochemical gradient. Plays a role in neuropathic pain mechanisms.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.