

Product datasheet for **MC225081**

Scn10a (NM_009134) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Scn10a (NM_009134) 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: >MC225081 representing NM_009134
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGAGTTCGCCCTTTGGGTCCGTGGGAACACCAACTTCAGACGGTTCCTCCAGAGTCGCTGGCAGAGA
 TCGAGAAGCAGATCGCTGCCACCGCGCCGCCAAGAAGGGCAGACCTAAGCAAAGAGGACAGAAGGACAA
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CATTTCCTGATGGGATCTTGGATGACGGGGTCTTTCATGGAGATCAGGAAAGCCGTCGAAGTCCATATT
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 CCACCCCTCCGGTGCAAGCAGGAAGACATCTCAGCCACCATTATCAAAAGGCCTATCGGAACTACATGTT
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AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_009134
- Insert Size:** 5874 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).
- 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_009134.3](#), [NP_033160.2](#)
- RefSeq Size:** 6413 bp
- RefSeq ORF:** 5874 bp
- Locus ID:** 20264
- UniProt ID:** [Q6QIY3](#)
- 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 (2) uses an alternate in-frame splice site in the coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to 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.