

## Product datasheet for RN211430

### Scn10a (NM\_017247) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Scn10a (NM_017247) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Scn10a
Synonyms:	Na(V)1.8; Nav1.8; PN3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-Myc-DDK (PS100007)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>RN211430 representing NM_017247 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCTCCCCTTTGCGTCCGTGGAACTACCAATTTCCAGACGGTTCCTCCAGAGTCACTGGCAGAGA  
TCGAGAAGCAGATTGCTGCTCACCGCGCAGCCAAGAAGGCCAGAACCAAGCACAGAGGACAGGAGGACAA  
GGGCGAGAAGCCAGGCCTCAGCTGGACTTGAAGACTGTAACCAGCTGCCAAGTTCTATGGTGAAGTCC  
CCAGCAGAAGTGGTGGGGAGCCCTGGAGGACCTAGACCCTTTCTACAGCACACACCCGGACATTCATGG  
TGTTGAATAAAAGCAGGACCATTCCAGATTCACTGCCACTTGGGCCCTGTGGCTTTCAGTCCCTTCAA  
CCTGATCAGAAGAACAGCCATCAAAGTGTCTGTCCATTCTGGTTCTCCATATTCATCACCATCACTATT  
TTGGTCAACTGCGTGTGCATGACCCGAAGTGTCTCCAGAGAAAGTTCGAGTACGCTTTCCTACTGTCATT  
ACACCTTCGAGGCTCTGATTAAGATACTGGCAAGAGGGTTTTGTCTAAATGAGTTCACCTATCTTCGAGA  
TCCGTGGAAGTGGCTGGACTTCAGTGTCACTTACCTGGCGTATGTGGGTGCAGCGATAGACCTCCGAGGA  
ATCTCAGGCTGCGGACATTCAGGTTCTCAGAGCCCTGAAAAGTGTTCGTGTATCCAGGACTGAAGG  
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GAGCGTCTTCGCCTTGGTGGCCCTGCAGCTCTTAAGGGGAACCTTAAGAACAAATGCATCAGGAACGGA  
ACAGATCCCAACAAGGCTGACAACCTCTCATCTGAAATGGCAGAATACATCTTCATCAAGCCTGGTACTA  
CGGATCCCTTACTGTGCGCAATGGGTCTGATGCTGGTCACTGCCCTGGAGGCTATGTCTGCCTGAAAAC  
TCCTGACAACCCGGATTTAACTACACCAGCTTTGATTCTTTGCGTGGGCATTCCTCTCACTGTTCCGC  
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TCTTTTTCGTGCTGGTTATTTTCCTGGATCGTTCTACCTGGTCAATTTGATCTTGGCCGTGGTACCAT  
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ACAGTGGATCACCTTAGCCTCCAAAAACGCCAATGAGAGAAGACCCAGGGTGAATCAAGGGTGCAGA  
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CTGTCTTCAGGAAGACGCAGGGCTAGCCACGGCAGTGTGTTCCACTTCCGAGCGCCAGCCAAGACATCT  
 CATTTCCTGACGGGATCACCCCTGATGATGGGGTCTTTACGGAGACCAGGAAAGCCGTCGAGGTTCCAT  
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 AGGTCCCTGCCGAGGGAGTGGATGACACGAGCTCCTCTGAGGGCAGCACGGTGGACTGCCCGACCCAGA  
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 GCAAGACCTGCTACCGCATCGTGGAGCACAGCTGGTTTGGAGTTTTCATCATCTTATGATCCTGCTCAG  
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 AGTATTTACCAATGCCTGGTGTGGCTGGACTTCTCATTGTGAACATCTCCCTGACAAGCCTCATAGC  
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 TGAACGTCCTCCTCGTCTGCCTCATCTTCTGGCTCATCTTTCAGCATATGGGCGTGAACCTTTCGCCGG  
 GAAATTTTCGAAGTGGTTCGACACCAGAAATAACCCATTTTCAAACGTGAATTCGACGATGGTGAATAAC  
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 ACGTTCGCTATGGGCTACCTCGCACTTCTCAGGTGGCAACCTTCAAAGGCTGGATGGACATAATGTATGC  
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 GTCGTTTTTCATCATTTTTCGGTGGCTTCTCACGCTGAATCTCTTTGTTGGGTCAATCGACAACCTTCA  
 ACCAACAGAAAAAAGCTAGGAGGCCAGGACATCTTATGACAGAAGAGCAGAAGAAGTACTACAATGC  
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 GTGTTTGCATCGTGACCAGGCAAGCCTTTGACATCATCATATGGTTCTCATCTGCCTCAACATGATCA  
 CCATGATGGTGGAGACCGAGCAGGGCAGGAGAGACGAAGTCTGGGCAGAAATCAACCAGTTCTT  
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 TGAACGTTGCTGACTTCAATAGTGGTATCCTGTCCATTGGGAGTCTGCTGTTTTCTGCAATCCTTAAGT  
 CACTGGAAAACCTACTTCTCCCCAGCCTTCCGGGTCTCCGCTGCGCCAGGATCGGCCGATCCTCAG  
 GCTGATCCGAGCAGCAAGGGGATTCGACGCTGCTTCTCGCCCTCATGATGTCCTGCCCCTCTTCTC  
 AACATCGGCCTCCTCTTCTCTCGTATGTTTCTACTCCATCTTCCGATGGCCAGCTTCGCTAACG  
 TCGTGGACGAGGCCGGCATCGACGACATGTTTCAACTTCAAGACCTTTGGCAACAGCATGCTGTGCCTGTT  
 CCAGATCACCACTCGGCCGGCTGGGACGGCTCCTCAGCCCCATCCTCAACAGGGGCTCCCTACTGC  
 GACCCCAACCTGCCAACAGCAACGGCTCCCGGGGAAGTGGGGAGCCCGGGTGGGCATCATCTTCT

TCACCACCTACATCATCATCTCCTTCCTCATCGTGGTCAACATGTACATCGCAGTGATTCTGGAGA  
CAACGTAGCCACCGAGGAGACGCGAGCCCTGAGCGAGGACGACTTCGACATGTTCTATGAGACCTGG  
GAGAAGTTCGACCCGGAGGCCACCCAGTTCATTGCCTTTCTGCCTCTCAGACTTCGCGGACACGCTCT  
CCGGCCCTCTTAGAATCCCCAACCAACCAGAATATATTAATCCAGATGGACCTGCCGTTGGTCCCGG  
GGATAAGATCCACTGTCTGGACATCCTTTTGCCTTCACAAGAACGCTCTGGGAGAATCCGGGGAGTTG  
GACTCCCTGAAGACCAATATGGAAGAGAAGTTTATGGCGACCAATCTCTCAAAGCATCCTATGAACCAA  
TAGCCACCACCTCCGGTGAAGCAGGAAGACCTCTCAGCCACAGTCATTCAAAGGCCTACCGGAGCTA  
CATGCTGCACCGCTCCTTGACACTCTCCAACCCCTGCATGTGCCAGGGCTGAGGAGGATGGCGTGTCA  
CTTCCCGGGAAGGCTACATTACATTATGCAACAGTGGACTCCCGGACAAATCAGAACTGCCTCTG  
CTACGTCTTTCCCGCCATCCTATGACAGTGTACCAGGGGCTGAGTGACCGGGCCAACATTAACCCATC  
TAGCTCAATGCAAAATGAAGATGAGGTCGCTGCTAAGGAAGGAAACAGCCCTGGACCTCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3171\\_g06.zip](https://cdn.origene.com/chromatograms/ja3171_g06.zip)

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_017247

**Insert Size:** 5874 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](mailto: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\\_017247.1](#), [NP\\_058943.1](#)

**RefSeq Size:** 6524 bp

**RefSeq ORF:** 5874 bp

Locus ID: 29571  
UniProt ID: [Q62968](#)  
Cytogenetics: 8q32  
Gene Summary: voltage-gated sodium channel that is resistant to tetrodotoxin [RGD, Feb 2006]