

Product datasheet for **RN211948**

Scn8a (NM_019266) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scn8a (NM_019266) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Scn8a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN211948 representing NM_019266 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCGGGCTGCTCGACCACCAGGCCCTGATAGTTTCAAGCCTTTCACCCCTGAGTCGCTGGCAA
ACATCGAGAGGCGTATTGCCGAGAGCAAGCTCAAGAAACCACAAAGCGGATGGCAGCCACCGGGAGGA
CGATGAAGACAGCAAGCCCAAGCCAACAGTGACCTGGAGGCTGGGAAGAGTTTGCCTTTCATCTACGGG
GACATCCCGCAAGGCCTGGTTGCGGTTCCCTGGAGGACTTTGACCCCTACTATTTGACGCAGAAAACCT
TTGTAGTATTAACAGAGGGAAAACCTCTTTCAGATTTAGTGCCACACCTGCCTTGTACATTTTAAAGCCC
TTTTAACCTGATAAGAAGAAATAGCTATTAATAATTTGATACACTCAGTTTTCAGCATGATCATCATGTGC
ACCATCTGACCAACTGTGTGTTTCATGACCTTTAGTAACCCTCCAGAATGGTCCAAGAATGTGGAGTACA
CATTACAGGGATTTACACATTTGAATCACTAGTAAAAATCATCGCAAGAGGTTTCTGCATAGACGGCTT
CACCTTCTGCGAGACCCGTGGAACCTGGTTAGACTTCAGTGTATCATGATGGCATATGTGACAGAGTTT
GTGGACCTGGGCAATGTCTCAGCGCTGAGAACATTCAGGGTTCTCCGAGCTTTGAAAACCTATCTCTGTAA
TTCCAGGCCTGAAGACAATCGTGGGCGCCCTAATCCAGTCCGTGAAGAAGCTGTCCGACGTGATGATCCT
GACAGTGTCTGCCTGAGTGTTTTCGCCCTGATTGGCCTGCAGCTTTCATGGGGAACCTTCGAAAACAAG
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CGGCGGAACCGACGGAAGAAGAGGAAGCAGAAGGAGCTCTCTGAAGGCGAGGAGAAGGGGACCCGGAGA
AGGTGTTTAAAGTCAGAGTCGGAAGACGGTATGAGAAGGAAGGCCCTTCCGCTGCCAGACAACAGGATAGG
GAGGAAGTTTTCCATCATGAATCAGTCGCTGCTCAGCATTCCAGGCTCGCCCTTCTCTCCCGACATAAC



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AGCAAAAGCAGCATCTTCAGCTCCGGGGACCCGGTCCGGTCCGGGACCCCGCTCTGAGAATGAGTTCCG
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 CCCAGCCTGCGGCGCAGCGTGAAGCGCAACAGCACGGTGGACTGCAACGGCGTAGTGTACTCATCGGGC
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 GACAACCTGGCGGCCACAGACGACGACGGGAAATGAACAACCTGCAGATCTCAGTGTCCGGATCAAGA
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 CACCTACATCTTCATCCTGGAGATGTTGCTCAAGTGGACAGCCTACGGCTTCGTCAAGTTCTTCACCAAT
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 ATTTGAAGGGATGAGGGTGGTGGTGAATGCCTTGGTGGGCGCCATCCCTCCATCATGAATGTGCTGCTG
 GTGTGTCTCATCTTCTGGCTGATTTTCAGCATCATGGGAGTTAACCTGTTTGGGGGAAATACCACTACT
 GCTTTAATGAGACTTCTGAAATCCGGTTCGAAATCGATATTGTCAACAATAAACCGGACTGTGAGAAGCT
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 TACCTGGCCCTTCTTCAAGTGGCAACCTTCAAAGGCTGGATGGACATCATGTATGCGGCTGTAGATTCCC
 GAAAGCCAGACGAGCAGCCTGACTACGAGGGCAACATCTACATGTACATCTACTTCGTATCTTCATCAT
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 CACTCAACAAGCCTTTGACATTGTGATCATGATGCTCATCTGCCTTAACATGGTGACAATGATGGTGGAG
 ACAGACTACTCAGAGCAAGCAGATGGAGAACATTTTACTGGATTAATCTGGTCTTTGTCATCTTCTTCA
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 CTTTGTGGTGGTATCCTCTCCATTGTGGGAATGTTCTGGCTGATATCATTGAGAAGTACTTCGTCTCC
 CCAACCTATTCCGAGTTATCCGATTGGCCGATTGGGCGCATCTTGCCTGTATCAAGGGCGCCAAAG
 GGATCCGCACCCTGCTCTTTGCCTTAATGATGTGCTGCCGCGCTGTTCAACATCGGCCTCCTGCTCTT
 CCTCGTATGTTTCATCTTCTCCATTTTGGCATGTCCAACCTCGCATACGTGAAGCACGAGGCCGCGCATT
 GACGACATGTTCAACTTCGAGACATTTGGCAACAGCATGATCTGTTTGTCCAGATCACAAACGCTGCTG
 GCTGGGATGGCCTGCTGCTGCCAATCCTGAACCGCCCCCTGACTGCAGCTTGGACAAAGAGCACCAGG
 GAGTGGCTTCAAAGGGGACTGTGGGAACCCCTCGGTGGGCATCTTCTTCTTTGTGAGCTACATCATCATC
 TCCTTCTGATTGGTGAACATGTACATCGCCATCATCTGGAGAACTCAGCGTGGCCACCGAGGAGA

GCGCCGACCCTCTGAGTGAGGATGACTTCGAGACTTTCTATGAGATCTGGGAGAAGTTTGACCCAGACGC
 CACCCAGTTTCATCGAGTACTGTAAGCTGGCAGACTTTGCCGACGCCCTGGAGCACCCGCTCCGAGTACCC
 AAGCCCAACACCATCGAGCTCATCGCCATGGACCTGCCATGGTGGAGCGGAGATCGCATCCACTGCTTGG
 ACATCCTTTTCGCCTTCCCAAGCGAGTCTGGGAGACAGTGGGGAGTTGGACATCTGCGGCAGCAGAT
 GGAGGAGCGGTTCTGTCAGTGGTCTGTCAGTGGTCTGTCAGCGTGCCTACAGGGGACACTTGGCTAGGCGGGGCTTCA
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 TCTGCAGAAAGATGGCCTCCAACAAGCTGGAGAATGGAGGCACACAGAGACAAGAAGGAGAGCACCCC
 GTCCACAGCCTCCCTCCCTCTTACGACAGCGTCACAAAGCCAGACAAGGAGAAGCAGCAGCGTCCGGAG
 GAGGGCAGAAGGGAAAGAGCCAAGAGGCAAAAAGAGGTCAGGGAGTCCAAGTGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_019266

Insert Size: 5937 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.

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_019266.2](#), [NP_062139.2](#)

RefSeq Size: 6556 bp

RefSeq ORF: 5937 bp

Locus ID: 29710

UniProt ID: [O88420](#)

Cytogenetics: 7q36

Gene Summary: tetrodotoxin-sensitive sodium channel alpha subunit [RGD, Feb 2006]