

## Product datasheet for RN209327

### Scn4a (NM\_013178) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Scn4a (NM\_013178) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Scn4a  
**Synonyms:** microl; Nav1.4; NCHVS  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >RN209327 representing NM\_013178  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCAGCTCATCTCTGCCAACCTGGTCCCCCGGGTCCCCACTGCCTGCGCCCTTCACCCAGAGT  
 CCCTGGCAGCCATAGAGCAGCGGGCGGTGGAGGAGGAGGCCCGGCTGCAGCGGAACAAGCAGATGGAGAT  
 TGAGGAGCCTGAGCGGAAGCCACGCAGTGACCTGGAAGCTGGCAAGAACCTCCCACTCATCTATGGGGAC  
 CCCCCACCGAAGTCATTGGCATCCCCCTGGAGGACCTGGATCCTTACTACAGTGACAAGAAGACCTTCA  
 TTGTGCTCAACAAAGGAAAGGCCATCTCCGATTCTCTGCCACGCTGCCCTCTACTGCTGAGCCCTT  
 CAGCATCGTCAGGAGGGTGGCTATCAAGGTGCTCATTACGCGCTGTTACGATGTTTATCATGATCACC  
 ATCCTGACCAACTGTGTGTTTCATGACCATGAGCAATCCGCTTCTTGGTCCAAACACGTGGAGTACACCT  
 TCACGGGGATCTATACCTTTGAGTCCCTCATTAAGATGCTGGCCCGAGGCTTTTGCATTGATGACTTCAC  
 ATTCCTCCGAGACCCCTGGAACCTGGCTGGACTTCAGTGTATCACAATGGCGTATGTGACAGAGTTTGTG  
 GACTTGGCAACATCTCAGCCCTGAGGACCTCCGTGTGCTGCGGGCCCTGAAGACCATCACGGTTATCC  
 CAGGGCTGAAGACAATTGTGGGAGCCCTGATCCAGTCTGTGAAAAGCTGTCGGATGTGATGATCCTCAC  
 TGTCTTCTGCCTGAGTGTCTTTGCCCTGGTGGGCTGCAGCTTTTCATGGGAAACCTGCGTCAGAAGTGC  
 GTGCGTTGGCCCCGCCATGAATGACACCAACACCCAGTGGTATGGCAATGACACTTGGTACAGCAATG  
 ACACCTTGGTACGGCAATGACACTTGGTACATCAATGACACTTGGAAACAGCCAGGAGAGCTGGGCCGGCAA  
 CTCTACCTTTGACTGGGAGGCTACATCAATGACGAAGGAACTTCTATTTCTTGGAGGGCTCCAATGAT  
 GCTCTGCTCTGTGGGAATAGCAGTATGCTGGGACTGCCCTGAGGGCTACGAATGCATAAAGGCTGGGC  
 GGAACCCCAACTATGGCTACACCAGCTATGACACCTTCAGCTGGGCTTTCTGGCTCTCTCCGGCTCAT  
 GACGCAGGACTACTGGGAGAACCTTTCCAGCTGACCCTACGAGCTGCTGGCAAGACCTACATGATCTTC  
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 ACGCTGAGCAGAATGAGGCTACCCTGGCCGAAGACCAGGAGAAAGAGGAGGATCCAACAGATGCTTGA  
 GAAATACAAAAACATCAGGAGGAACTGGAAAAGGCTAAGGCTGCCAGGCTCTGAAAAGTGGAGAGGAG



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GCAGATGGGGACCCAACCCACAACAAAGACTGCAATGGGAGCCTGGATGCATCCGGGGAGAAGGGGCCCC  
 CAAGGCCAAGCTGCAGCGCAGACAGTGCATCTCAGATGCATGGAGGAGCTGGAAGAGGCCCATCAGAA  
 GTGCCACCGTGGTGGTACAAGTGTGCACACAAAGTCTCATCTGGAAGTGTGTGCCCGTGGGTGAAG  
 TTCAAACATATAATCTACCTGATCGTATGGACCCCTTTGTGGACCTGGGTATCACCATCTGCATTGTGC  
 TCAACACCCTCTTCATGGCCATGGAGCACTACCCATGACCGAGCACTTTGACAACGTGCTCTCCGTGGG  
 CAACTTGGTCTTCACAGGCATCTTCACTGCGGAGATGGTGTGAAGCTGATTGCCATGGACCCCTACGAG  
 TATTTCCAACAGGGCTGGAACATCTTTGACAGTTTCATCGTACCCTCAGCCTGGTGGAGCTGGGCTGG  
 CCAACGTACAGGGCTGTCAAGTCTCCGTTCCCTCCGCCTGCTGCGTGTCTTCAAGCTGGCCAAGTCATG  
 GCCAACACTCAACATGCTCATAAAAATCATTGGCAACTCAGTGGGCGCGCTGGGCAACCTGACCCTGGT  
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 AAGATCCTGAGCCCAAGGAAATAATACTCAGCCTCGGTGAGCCCGGGGTGCCGGGAAATGCCGAGG  
 AGAGTACTCCCGAGGATGAGAAGAAGGAGCCGCCACCGGAAGATAAGGAGCTGAAAGACAATCATATCCT  
 GAACCAGTGGGCTGACCGATGGCCCCGCTCCAGCATCGAGCTGGACCACCTTAACTTCATCAACAAC  
 CCCTACCTCACCATCCAGGTGCCATTGCCTCCGAGGAGTCTGACCTGGAGATGCCACAGAGGAGGAGA  
 CAGACGCCTTCTCGGAGCCTGAGGATATCAAGAAGCCCTACAGCCCTCTACGACGGAACTCTCCGT  
 CTGACGACAGCTGACTACAAGCCCTGAAGAGGACCCGAGGAGCAGGCTGAGGAGAACCCGAGGGG  
 GAGCAGCCTGAGGAATGCTTACGGAAGCCTGTGTGAAGCGTGGCCCTGCCTCTATGTGGACATCTCC  
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 GACCTTCAATTGTCTTCATGATCTTGTCTCAGCAGTGGAGCCTGGCCTTCGAGGACATCTACATTGAACAG  
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 TGCTAAAGTGGTGCCTACGGCTTCAAGGTGATTTACCAATGCCTGGTGGTCTGACTTCTCAT  
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 ACGCCCTCTGGGAGCTATCCCCTCCATCATGAACGTCTCTCGTCTGCCTCATCTTCTGGCTCATCTT  
 CAGCATCATGGGGTCAACTGTTTGTGGAAAGTTCTACTACTCGTCAACACCACCACCTCTGAGAGA  
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 GGGTTGGATGGATATCATGTATGCAGCTGTGGACTCCCGGGAGAAAGAGGAGCAGCCACACTATGAGGTG  
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 TCGGTGTATCATCGACAACCTTCAACCAACAGAAGAAGTGGAGGGAAAGACATCTTCATGACAGA  
 GGAACAGAAGAAATACTACAATGCGATGAAGAAGCTTGGCTCCAAGAAGCCCCAGAAGCCAATCCCCGG  
 CCTCAGAACAAGATCCAGGGCATGGTGTACGACTTCGTGACGAAGCAGGTGTTGACATCTCCATCATGA  
 TCCTCATCTGCCTCAACATGGTACTATGATGGTGGAGACAGATGACCAGAGCCAGCTCAAGGTGGACAT  
 CCTGTACAACATCAACATGGTCTTCAATTATCATCTTACAGGGGAGTGTGTGCTGAAGATGTTGCCCTA  
 CGCCATTACTACTTACCATTGGCTGGAACATCTTGTACTTGTGGTGTGATCTTGTCCATCGTGGGCC  
 TTGCGCTCTGACTTGATACAGAAATACTTTGTGTACCCACGCTGTTCCGTGTGATCCGCTTGGCTCG  
 GATCGGGCGTGTCTGCTGTGATCCGCGGGGCCAAGGGCATCCGGACGCTGCTGTTCCGCTGATGATG  
 TCCCTGCCCGCCCTTCAACATCGGCCTCCTTCTTCTTCTGGTGTGTTGATCTACTCGATCTTCCGCA  
 TGTCTAACTTCGCTACGCAAGAAAGAGTCAAGCATCGACGACATGTTAACTTTGAGACCTTTGGCAA  
 CAGTATCATCTGCCTCTCGAGATCACCACGTGACCCGGCTGGGACGGGCTTCTGAACCCCATCTCAAC  
 AGTGGGCCCCAGACTGTGACCCGACGTTGGAGAACCCGGGTACCAATGTCAGGGGGGACTGCGGCAACC  
 CTTCCATCGGCATCTGTTCTTCTGAGCTACATCATCATCTCCTCCTCATCGTGGTCAACATGTACAT  
 TGCTATCATCTGGAGAATTTCAACGTGCCACCGAAGAGAGCAGCGAGCCCTCAGTGGAGATGACTTC  
 GAGATGTTCTATGAGACCTGGGAGAAGTTGCACCCGGACGCCACTCAGTTCATCGACTACAGCCGCTCT  
 CGGACTTTGTGGACACCTGCAGGAGCCACTGAAAATCGCCAAACCCAATAAGATCAAGCTTATCACGTT  
 AGACCTGCCCATGGTGGCCGGGACAAGATCCACTGCTTGGACATCTCTTTGCCCTGACCAAAGAGGTA  
 CTGGGTGACTCTGGGGAGATGGACGCCCTCAAGCAGACCATGGAGGAGAAGTTTATGGCAGCTAACCTT

CCAAGGTCTCCTATGAGCCCATCACCACCACCTCAAGAGGAAGCAGGAGGAGGTGTGTGCTATCAAAAT  
 CCAGAGGGCCTACCGCCGCCACCTGCTGCAGCGCTCCGTGAAGCAGGCCTTTACATGTACCGTCACAGC  
 CAGGACGGCAATGACGACGGGGCCCCGAGAAGGAGGGATTGCTTGCCAACACCATGAACAAGATGTATG  
 GCCATGAGAAAGAGGGTGATGGTGTGCAGAGCCAGGGGGAGGAAGAGAAGGCCTTACAGAGGATGCTGG  
 ACCCACCCTGGAGCCCGAACCCACCAGCAGCTCAGATACTGCCCTGACTCCTTCTCTCCACCCTACCC  
 CCCTCATCATCACCGCCACAAGGGCAGACAGTTCCGCCAGGGGTCAAAGAGTCTCTTGTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_013178
- Insert Size:** 5523 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\\_013178.1](#), [NP\\_037310.1](#)
- RefSeq Size:** 6957 bp
- RefSeq ORF:** 5523 bp
- Locus ID:** 25722
- UniProt ID:** [P15390](#)
- Cytogenetics:** 10q32.1
- Gene Summary:** voltage-gated Na<sup>+</sup> channel subunit [RGD, Feb 2006]