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Product datasheet for SC122139

SCNN1D (NM_002978) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCNN1D (NM_002978) Human Untagged Clone
Tag:	Tag Free
Symbol:	SCNN1D
Synonyms:	dNaCh; ENaCd; ENaCdelta; MGC149710; MGC149711; OTTHUMP00000002084; SCNED; sodium channel, nonvoltage-gated 1, delta; sodium channel, voltage-gated, type I, delta polypeptide
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC122139 sequence for NM_002978 edited (data generated by NextGen Sequencing)

ATGGCTGAGCACCGAAGCATGGACGGGAGAATGGAAGCAGCCACACGGGGGGGCTCTCAC
CTCCAGGCTGCAGCCCAGACGCCCCCCAGGCCGGGGCCACCATCAGCACCACCACCACCA
CCCAAGGAGGGGCACCAGGAGGGGCTGGTGGAGCTGCCCGCCTCGTTCCGGGAGCTGCTC
ACCTTCTTCTGCACCAATGCCACCATCCACGGCGCCATCCGCCTGGTCTGCTCCCGCGGG
AACCGCCTCAAGACGACGTCCTGGGGGCTGCTGTCCCTGGGAGCCCTGGTCGCGCTCTGC
TGGCAGCTGGGGCTCCTCTTTGAGCGTCACTGGCACCGCCCGGTCCTCATGGCCGTCTCT
GTGCACTCGGAGCGCAAGCTGCTCCCGCTGGTCACCCTGTGTGACGGGAACCCACGTCGG
CCGAGTCCGGTCCTCCGCCATCTGGAGCTGCTGGACGAGTTTGCCAGGGAGAACATTGAC
TCCCTGTACAACGTCAACCTCAGCAAAGGCAGAGCCGCCCTCTCCGCCACTGTCCCCCGC
CACGAGCCCCCCTTCCACCTGGACCGGGAGATCCGTCTGCAGAGGCTGAGCCACTCGGGC
AGCCGGGTCAGAGTGGGGTTCAGACTGTGCAACAGCACGGGCGGCGACTGCTTTTACCGA
GGCTACACGTCAGGCGTGGCGGCTGTCCAGGACTGGTACCACTTCCACTATGTGGATATC
CTGGCCCTGCTGCCCGCGGCATGGGAGGACAGCCACGGGAGCCAGGACGGCCACTTCGTC
CTCTCCTGCAGTTACGATGGCCTGGACTGCCAGGCCCGACAGTTCCGGACCTTCCACCAC
CCCACCTACGGCAGCTGCTACACGGTCGATGGCGTCTGGACAGCTCAGCGCCCCGGCATC
ACCCACGGAGTCGGCCTGGTCCTCAGGGTTGAGCAGCAGCCTCACCTCCCTCTGCTGTCC
ACGCTGGCCGGCATCAGGGTCATGGTTCACGGCCGTAACCACACGCCCTTCCTGGGGCAC
CACAGCTTCAGCGTCCGGCCAGGGACGGAGGCCACCATCAGCATCCGAGAGGACGAGGTG
CACCGGCTCGGGAGCCCCTACGGCCACTGCACCGCCGGCGGGGAAGGCGTGGAGGTGSAG
CTGCTACACAACACCTCCTACACCAGGCAGGCCTGCCTGGTGTCCTGCTTCCAGCAGCTG
ATGGTGGAGACCTGCTCCTGTGGCTACTACCTCCACCCTCTGCCGGCGGGGGCTGAGTAC
TGCAGCTCTGCCCGGCACCCTGCCTGGGGACACTGCTTCTACCGCCTCTACCAGGACCTG
GAGACCCACCGGCTCCCCTGTACCTCCCGCTGCCCCAGGCCCTGCAGGGAGTCTGCATTC
AAGCTCTCCACTGGGACCTCCAGGTGGCCTTCCGCCAAGTCAGCTGGATGGACTCTGGCC
ACACTAGGTGAACAGGGGCTGCCGCATCAGAGCCACAGACAGAGGAGCAGCCTGGCCAAA
ATCAACATCGTCTACCAGGAGCTCAACTACCGCTCAGTGGAGGAGGCGCCCGTGTACTCG
GTGCCGCAGCTGCTCTCGGCCATGGGCAGCCTCTGCAGCCTGTGGTTTGGGGCCTCCGTC
CTCTCCCTCCTGGAGCTCCTGGAGCTGCTGCTCGATGCTTCTGCCCTCACCCTGGTGCTA
GGCGGCCGCCGGCTCCGCAGGGCGTGGTTCTCCTGGCCCAGAGCCAGCCCTGCCTCAGGG
GCGTCCAGCATCAAGCCAGAGGCCAGTCAGATGCCCCCGCCTGCAGGCGGCACGTCAGAT
GACCCGGAGCCCAGCGGGCCTCATCTCCCACGGGTGATGCTTCCAGGGGTTCTGGCGGGA
GTCTCAGCCGAAGAGAGCTGGGCTGGGCCCCAGCCCCTTGAGACTCTGGACACCTGA

Clone variation with respect to NM_002978.2
1138 g=>s;1443 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002978 unedited
AAAATTGTATACGACTCCTATAGGCGGCCGCGNAATTCGCACGAGGGTAGAAGGGAATGT
CTGGTTACAGTATGGCGTTGTGCAGATGAAGGTCTTATCGCAGATGAAGCCACCAGGTCA
CAAGCCTCAGAGAGAATCAACTATAAATGCTTCTCATCAGACTCAAGGCCTGAGGTGATG
CTGATGCTGTGCCTGAATTCCAGCAGGGAGGAGGCATGAGGCCTGGGTGACTCCAGCATG
GCTTTCCTCTCCAGGACGTCACCGGTGGCAGCTGCTTCCTTCCAGAAGCCGGCAGGAGGC
CAGAGGCTCCATCCTGCTTCAGAAGCTGCCAGCTGCCCCCGCAATGGCTGAGCACCGAAG
CATGGACGGGAGAATGGAAGCAGCCACACGGGGGGGCTCTCACCTCCAGGCTGCAGCCCA
GACGCCCCCCAGGCCGGGGCCACCATCAGCACCACCACCACCACCCAAGGAGGGGCACCA
GGAAGGGGCTGGTGGAGCTGCCCGCCTCGTTCCGGGAGCTGCTCACCTTCTTCTGCACCA
ATGCCACCATCCACGGCGCCATCCGCCTTGGTCTGCTCCCCGCGGGAACCGCTAANAAAC
AACGTCCTGGGGGGGCCCTGCTGTCCCTGGGGAGCCCTGGTCGCGCTCTGCTGGNCAGCTG
GGGCTCCTCTTTTGAGCGTCACTGGCACCGCCCGTCCTAAAGTGCCGGNTCTTGTGCACT
CGGAGCGCAACTGTTCCCGCTGTACCCTTGGGGAGAGGGAACCACTNNGGCGGGAAATCG
GTCTCGCATTTGGAACTGTGAAAACATTTGCCAGGAAAACATTGACTCCTGGTACACGTC
ACCTAGAAGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002978 unedited
GAGTTTTTTTTTCGGGTTTTTGGAGTCAACAGCTTTATTTCAGAGCAGCCCAAGTGTGTC
CGTGGGGCCTGCCTTGCCTTCTGCCTCCCTGCAGCTGAGGTGGCTAGGCTTGACACACGT
ACACAGGTGCATCAGACGTGTGGACATGCAGACACAGACACACGGAGCATGGGTACATCA
CCGCGTGTCGGCACGTCCAGCCGCACTCGTGTGCACGCGGGAACCCCCCTCCGCCCCGGG
CCTCCTTGAGACCCACCCCAGGCAGTGTAGGTGGTTTGACCAGAGGCGCCGACATGCCCG
GTGCCTGCCTCCCCACGGCCGCGTGTGCTGCTTCCTGGGCTGCTGGTCTGGCCCACCCTG
GGCCGCTGGGGAGCCTGCTGCTGCCACAGCTGCAAGGACCAGGCCAAGAGATCGCACAGC
CCTGGCAGGTCTGGTTCAAGGGGTCCAGAGTCTCAAGGGGCTGGGGCCCAGCCCAGCTCT
CTTCGGCTGAGACTCCCGCCAGAACCCCTGGAAGCATCACCCGTGGGAGATGAGGCCCGC
TGGGCTCCGGGTCATCTGACGTGGCCGCCTGGAAGCGGGGGCGACTGACTGGCCTTTGCT
TGATGCTGGAACCCCCTGAGGCAAGCTTGTTCTTGGCCAAGAGAACCAGCCCTGGGGAGC
CGGGGCCGCTTTCACCGGGTAGGGGCGAAACCCCCGACC

Restriction Sites: NotI-NotI

ACCN: NM_002978

Insert Size: 3000 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_002978.2, NP_002969.2
RefSeq Size:	2503 bp
RefSeq ORF:	1917 bp
Locus ID:	6339
Cytogenetics:	1p36.33
Domains:	ASC
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Gene Summary:	Sodium permeable non-voltage-sensitive ion channel inhibited by the diuretic amiloride. Mediates the electrodiffusion of the luminal sodium (and water, which follows osmotically) through the apical membrane of epithelial cells. Controls the reabsorption of sodium in kidney, colon, lung and sweat glands. Also plays a role in taste perception.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks an internal exon in the CDS, as compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus, as compared to isoform 1.