

Product datasheet for **RG219842**

SCNN1D (NM_002978) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCNN1D (NM_002978) Human Tagged ORF Clone
Tag:	TurboGFP
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:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219842 representing NM_002978
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGAGCACCGAAGCATGGACGGGAGAATGGAAGCAGCCACACGGGGGGCTCTCACCTCCAGGCTG
 CAGCCCAGACGCCCCAGGCCGGGCCACCATCAGCACCACCACCACCCCAAGGAGGGGCACCAGGA
 GGGGCTGGTGGAGCTGCCCGCCTCGTTCGGGAGCTGCTCACCTTCTTCTGCACCAATGCCACCATCCAC
 GGCGCCATCCGCCTGGTCTGCTCCCGGGAACCGCTCAAGACGACGTCTGGGGGCTGCTGTCCCTGG
 GAGCCCTGGTCGCCTCTGCTGGCAGCTGGGGCTCCTCTTTGAGCGTCACTGGCACCGCCGGTCTCAT
 GGCCGTCTCTGTGACTCGGAGCGCAAGCTGCTCCCGTGGTACCCTGTGTGACGGGAACCCACGTCGG
 CCGAGTCCGGTCTCCGCCATCTGGAGCTGCTGGACGAGTTTCCAGGGAGAATTGACTCCCTGTACA
 ACGTCAACCTCAGCAAAGGCAGAGCCGCCCTCTCCGCCACTGTCCCCGCCACGAGCCCCCTTCCACT
 GGACCGGGAGATCCGTCTGCAGAGGCTGAGCCACTCGGGCAGCCGGTCCAGAGTGGGGTTACAGAGTGC
 AACAGCACGGGGCGGACTGCTTTTACCAGGGCTACACGTGAGCGTGGCGGCTGTCCAGGACTGGTACC
 ACTTCCACTATGTGGATATCCTGGCCCTGCTGCCCGGGCATGGGAGGACAGCCACGGGAGCCAGGACGG
 CCACTTCGTCTCTCTCGAGTTACGATGGCCTGGACTGCCAGGCCGACAGTTCGGGACCTTCCACCAC
 CCCACTACGGCAGCTGTACACGGTCGATGGCGTCTGGACAGCTCAGCGCCCCGGCATACCCACGGAG
 TCGGCCTGGTCTCAGGGTTGAGCAGCAGCCTCACCTCCCTCTGCTGTCCACGCTGGCCGGCATCAGGGT
 CATGGTTCACGGCCGTAACCACACGCCCTTCTGGGGCACCACAGCTTACGCGTCCGGCCAGGGACGGAG
 GCCACCATCAGCATCCGAGAGGACGAGGTGCACCGGCTCGGGAGCCCCCTACGGCCACTGCACCGCCGGC
 GGAAGGCGTGGAGGTGGAGCTGCTACACAACACCTCCTACACCAGGCAGGCCCTGGTGTCTGCTT
 CCAGCAGCTGATGGTGGAGACCTGCTCCTGTGGCTACTACTCCACCCTCTGCCGGCGGGGCTGAGTAC
 TGACGCTCTGCCCGCACCTGCCTGGGACACTGCTTCTACCGCTCTACCAGGACCTGGAGACCACC
 GGCTCCCCGTACCTCCCGCTGCCCGAGCCCTGCAGGGAGTCTGCATTCAAGCTCTCCACTGGGACCTC
 CAGGTGGCCTTCCGCCAAGTCAGCTGGATGGACTCTGGCCACGCTAGGTGAACAGGGGCTGCCGCATCAG
 AGCCACAGACAGAGGAGCAGCCTGGCCAAAATCAACATCGTCTACCAGGAGCTCAACTACCGCTCAGTGG
 AGGAGGCGCCCGTACTCGGTGCCGACGCTGCTCTGGCCATGGGCAGCCTCTGCACGCTGTGGTTTGG
 GGCTCCGTCTCTCCCTCCTGGAGCTCCTGGAGCTGCTGCTCGATGCTTCTGCCCTCACCTGGTGTCTA
 GCGGCCCGCCGGTCCCGAGGGCGTGGTCTCCTGGCCAGAGCCAGCCCTGCCTCAGGGGCGTCCAGCA
 TCAAGCCAGAGGCCAGTCAGATGCCCGCCCTGCAGGCGGCACGTGAGTACCCGGAGCCAGCGGGCC
 TCATCTCCACGGGTGATGCTTCCAGGGTTCTGGCGGGAGTCTCAGCCGAAGAGAGCTGGGCTGGGCC
 CAGCCCCCTTGAGACTCTGGACACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG219842 representing NM_002978
 Red=Cloning site Green=Tags(s)

MAEHRSM DGRME AATRGGSHLQAAAQTPPRPGPPSAPPPPPKEGHQEGLVELPASFRELLTFFCTNATIH
 GAIRLVCSRGNRLKTTSWGLLSL GALVALCWQLGLLFERHWHRPVLMASVHSEKLLPLVTLCDGNPRR
 PSPVLRHLELLDEFARENIDSLYNVNL SKGRAALSATVPRHEPPFHL DREIRLQRLSHSGSRVRVGFRLC
 NSTGGDCFYRGYTS GVAAVQDWYHFHYVDILALLPAAWEDSHGSQDGHFVLSYDGLDCQARQFRFHH
 PTYGSCYTVDGVWTAQRPGITHGVGLVLRVEQQPHLPLSLTAGIRVMVHGRNHTPFLGHHSFSVRPGTE
 ATISIREDEVHRLGSPYGHCTAGGEGVEVELLHNTSYTRQACLVSFCFQQLMVETCSGGYLLHPLPAGA
 EYCSSARHPAWGHCFYRLYQDLETHRLPCTSRCPRCRESAFKLSGTGSRWPSAKSAGWTLATLGEQGLPHQ
 SHRQRSSLAKINIVYQELNYRSVEEAPVYSVPQLLSAMGSLCSLWFGASVLSLELLELLDASALTLVL
 GRRRLRRAWFSWPRASPASGASSIKPEASQMPPPAGGTSDDPEPSGPHLPRVMLPGVLAGVSAEESWAGP
 QPLETLDT

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_002978

ORF Size: 1914 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: 1916 bp

Locus ID: 6339

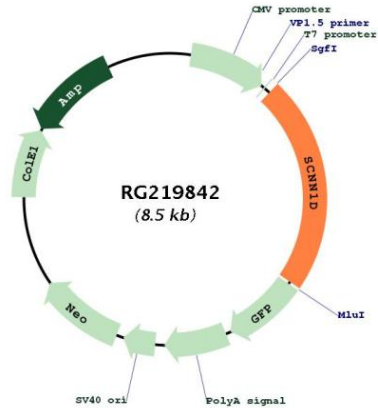
Cytogenetics: 1p36.33

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]

Product images:



Circular map for RG219842