

## Product datasheet for **RC226101**

### SCNN1D (NM\_001130413) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SCNN1D (NM_001130413) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SCNN1D
Synonyms:	dNaCh; ENaCd; ENaCdelta; SCNED
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC226101 representing NM\_001130413  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGGGCAGTGTCTCACAGAAGACAACACCGCTCCCTCGTTACCTGTGGCCCGGCCACCTCAGCGGCC  
 CAAGGAGGCTCACCTGGTCATGGTGCAGTGACCACAGGACCCCCACATGCCGGGAGCTGGTTCCGCCCA  
 CCCCACCCCTGCACCGGCCAGCGAGGGGATGGCCAGAAGAGGGGAGGACCATGTGGATTACACAGT  
 GCTGGACATGTGCTCTGTGGCTACCCCTCTGCCTACTCTCTGGCCCGATACAGGGGTGTGGACAGGCC  
 TGGGTGACTCCAGCATGGCTTCTCTCCAGGACGTACCCGGTGGCAGCTGCTTCTTCCAGAGCCGGCA  
 GGAGGCCAGAGGCTCCATCTGCTTTCAGAGCTGCCAGCTGCCCCGCAATGGCTGAGCACCGAAGCATGG  
 ACGGGAGAATGGAAGCAGCCACACGGGGGGCTCTCACCTCCAGATCGCTGGGCTGTGGCTCCCAGA  
 GGCCCTGCCACCTGAAGGGATGGCAGCACAGCCCACTCAGCACACCGCTGCCTGCAAACAGGGCCAGGC  
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 GAGGGGCTGGTGGAGCTGCCCGCTCGTTCGGGAGCTGCTCACCTTCTTCTGCACCAATGCCACCATCC  
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 GGGAGCCCTGGTCCGCTCTGCTGGCAGCTGGGGCTCCTCTTTGAGCGTCACTGGCACCGCCCGGTCCCTC  
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 AGGCCACCATCAGCATCCGAGAGGACGAGGTGCACCGGCTCGGGAGCCCCACGGCCACTGCACCGCCGG  
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 CCTCATCTCCACGGGTGATGCTTCCAGGGTCTGGCGGGAGTCTCAGCCGAAGAGAGCTGGGCTGGGC  
 CCCAGCCCTTGAGACTCTGGACACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226101 representing NM\_001130413  
Red=Cloning site Green=Tags(s)

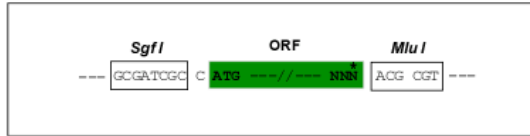
MRAVLSQKTTPLPRYLWPGHLSGPRRLTWSWCSDHRTPTCRELGSPHPTPCTGPARGWPRRGGGPCGFTS  
AGHVLCGYPLCLLSGPIQCGTGLGDSSMAFLSRTSPVAAASFQSRQEARGSILLQSCQLPPQWLSTEAW  
TGEWKQPHGGALTSRSPGPVAPQRPCHLKGWQHRPTQHNAACKQGQAAAQTTPRPGPPSAPPPPKKEGHQ  
EGLVELPASFRELLTFFCTNATIHGAIRLVCSRGNRLKTTSWGLLSLGALVALCWQLGLLFERHWHRPVL  
MAVSVHSERKLLPLVTLCDGNPRRPPVLRHLELLDEFARENIDSLYNVNLKSGRAALSATVPRHEPPFH  
LDREIRLQRLSHSGSRVRVGFRLCNSTGGDCFYRGYTSVAAVQDWYHFHYVDILALLPAAWEDSHGSQD  
GHFVLSYDGLDCQARQFRTHHPTYGSCYTVDGWTAQRPGITHGVGLVLRVEQQPHLPLLSTLAGIR  
VMVHGRNHTPFLGHHSFSVRPGTEATISIREDEVHRLGSPYGHCTAGGEGVEVELLHNTSYTRQACLVSC  
FQQLMVETCSGGYLLHPLPAGAEYCSSARHPAWGHCFYRLYQDLETHRLPCTSRCPRPCRESAFKLSTGT  
SRWPSAKSAGWTLATLGEQGLPHQSHRQRSSLAKINIVYQELNYRSVEEAPVYSVPQLLSAMGSLCSLWF  
GASVLSLELELELLLDASALTLVLGRRRLRRAWFSWPRASPASGASSIKPEASQMPPPAGGTSDDPEPSG  
PHLPRVMLPGVLAGVSAEESWAGPQPLETLDT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

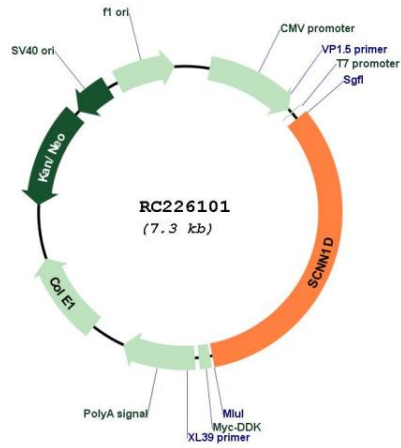


\* The last codon before the Stop codon of the ORF

ACCN: NM\_001130413  
 ORF Size: 2406 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001130413.4</a>
<b>RefSeq Size:</b>	3063 bp
<b>RefSeq ORF:</b>	2409 bp
<b>Locus ID:</b>	6339
<b>UniProt ID:</b>	<a href="#">P51172</a>
<b>Cytogenetics:</b>	1p36.33
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other, Transmembrane
<b>MW:</b>	87.9 kDa
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RC226101