

Product datasheet for **MC220578**

Scnn1a (NM_011324) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scnn1a (NM_011324) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Scnn1a
Synonyms:	ENaC; mENaC; SCNEA; Scnn1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220578 representing NM_011324
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGCTGGACCACACCAGAGCCCTGAGCTCAACCTTGACCTAGACCTTGACGCTCCAACCTCACCGA
 AGGGATCCATGAAGGGCAACAATTTCAAGGAGCAAGACCTTTGTCTCCTCTGCCATGCAAGGACTGGG
 CAAGGGGGACAAGCGTGAAGAACAGGCGCTGGGCCCGGAACCCTCAGAGCCCCGGCAGCCACCGAGGAG
 GAGGAGGCACTGATCGAGTTCCACCCTCTACCGGGAGCTTTCCAGTTCTTCTGCAACAATACCACCA
 TCCACGGTGCCATCCGCCTGGTGTGCTCAAGCACAACCGCATGAAGACGGCCTTCTGGCGGTGCTGTG
 GCTCTGCACCTTCGGCATGATGTACTGGCAGTTTGCTTTGCTGTTGAGGAATACTTCAGCTACCCCGTG
 AGTCTCAACATCAACCTCAATTCGGACAAGCTGGTCTTCCCTGCCGTCAGTGTGACCCCTTAATCCTT
 ACAGATACACTGAAATTAAGAGGATCTGGAAGAGCTGGACCGCATCACGGAACAGACGCTTTTTGACCT
 GTACAAATACAACCTTCTTACACTCGCCAGGCTGGGGGGCGCCCGCAGCACC CGCGACTCCGGGGT
 GCTCTCCACACCCCTGCAGCGCTGCGCACACCACCTCCGCCAATCCCGCCCGCTCGGCGCGCAGCG
 CGTCTTCCAGTGTACGCGACAACAATCCCAAGTGACAGGAAGGACTGGAAAATCGGCTTCCAACCTGTG
 CAACCAGAAACAAATCAGACTGCTTCTACAGACATACTCATCCGGGGTGGATGCCGTGAGAGAGTGGTAC
 CGTTCATTACATCAACATTCTGTCCAGACTGCCCGACACCTCGCTGCTCTAGAGGAAGAAGCCCTGG
 GCAGCTTCATCTTTACCTGTGCTTTCAACCAGGCCCTTCAATCAGGCGAATTATTCTCAGTTCACCA
 CCCCATGTATGGGAACGCTACACTTTCAACAACAAGAACAACCCAATCTCTGGATGCTTCCATGCCT
 GGAGTCAACAATGGTTTGTCCCTGACACTGCGCACAGAGCAGAATGACTTCATCCCCCTGCTGTCCACAG
 TGACGGGGCCAGGGTGATGGTGCACGGTCAGGATGAGCCTGCTTTTATGGATGATGGTGGCTTCAACGT
 GAGGCCTGGTGTGGAGACCTCCATCAGTATGAGAAAGGAAGCCCTGGACAGCCTCGGAGGCAACTACGGA
 GACTGCACTGAGAATGGCAGCGATGTCCCTGTCAAGAACCTTTACCCCTCCAAGTACACACAGCAGGTGT
 GCATTCCTCTGCTTCCAGGAGAACATGATCAAGAAGTGTGGCTGTGCCTACATCTTCTACCCTAAGCC
 CAAGGGTGTAGAGTTCTGTGACTACCTAAAGCAGAGCTCCTGGGGCTACTGCTACTATAAACTGCAGGCT
 GCCTTCTCCTGGATAGCCTGGGCTGCTTCTCAAAGTGCAGGAAGCCGTGCAGTGTGACCAACTACAAGC
 TCTCTGCTGGCTACTCAAGATGGCCGTCTGTGAAGTCCCAGGATTGGATCTTCGAGATGCTATCCTTGCA
 GAATAATTACACGATCAACAACAAAAGAAACGGAGTTGCTAAACTCAACATCTTCTCAAAGAGCTGAAC
 TATAAACTAATTCGGAGTCTCCCTCTGTACGATGGTCAAGCCTCCTGTCCAACCTGGGCAGCCAGTGG
 GCCTGTGGTTCGGCTCATCTGTGCTGTCCGTGGTGGAAATGGCGGAGCTCATCTTCGACCTCCTGGTCA
 CACTCATCATGTTACTGCACAGGTTCCGGAGCCGGTACTGGTCTCCAGGACGAGGGGGCCAGGGGTGCC
 AGGGAGGTGGCCTTACCCAGCTTCTCCTTCCCTTCCCGTTTCTGTCCCCACCCTACATCCCCGCCAC
 CTCTTTGCCAGCAGGGCAGGACCCCTCCCTGGCCCTGACAGCCCTCCACCTGCCTATGCTACCCT
 AGGCCCTCTGCCTCTCCACTGGACTCGGCTGTGCTGGCTTCTGCTGTGCTCCGGCCATGGCACTC
 TGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3454_d02.zip

Restriction Sites: SgfI-MluI

ACCN: NM_011324

Insert Size: 2103 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.

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](#)

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_011324.2](#), [NP_035454.2](#)

RefSeq Size: 3515 bp

RefSeq ORF: 2103 bp

Locus ID: 20276

UniProt ID: [Q61180](#)

Cytogenetics: 6 59.32 cM

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. Plays an essential role in electrolyte and blood pressure homeostasis, but also in airway surface liquid homeostasis, which is important for proper clearance of mucus. Controls the reabsorption of sodium in kidney, colon, lung and eccrine sweat glands. Also plays a role in taste perception.[UniProtKB/Swiss-Prot Function]