

Product datasheet for **RR208484**

Scnn1a (NM_031548) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scnn1a (NM_031548) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Scnn1a
Synonyms:	ENaCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR208484 representing NM_031548
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGCTGGACCACACCAGAGCCCTGAGCTCAACATTGACCTAGACCTTCACGCCTCCAACCTCGCCTA
 AGGGGTCCATGAAGGGCAACCAATTCAAGGAGCAAGACCCTTGTCTCCTCAGCCATGCAAGGACTGGG
 GAAGGGGGACAAACGTGAAGAGCAGGGCCTGGGCCCGAACCCTCAGCACCCCGGACGCCACCGAGGAG
 GAGGAGGCACTGATTGAGTTCCACCGCTCTACCGGGAGCTTTCCAGTTCTTCTGCAACAACACCACCA
 TCCACGGGGCCATCCGCCTGGTGTGCTCCAACACAACCGCATGAAGACGGCCTTCTGGCGGTGCTGTG
 GCTGTGCACCTTCGGCATGATGTACTGGCAGTTCGCCTTGTGTTGAGGAGTACCTCAGCTACCCAGTG
 AGCCTCAACATCAACCTCAATTCAGACAAGCTGGTCTTCCCTGCCGTACTGTCTGCACCCTTAATCCTT
 ACAGATACACTGAAATTAAGAGGAGCTGGAAGAGCTGGACCGCATCACGGAGCAGACGCTTTTTGACTT
 GTACAAAACAACCTTCTTACACTCGCCAGGCTGGGGCCGACGCCGACCTCCCGCAGCTCCTGGGT
 GCTTTCCCGCACCCCTGCAGCGCTGCCACTCCACCTCCGCCCTACTCCGGCCGACGGCGCGCAGCG
 GGTCTTCCAGCGTACGCGACAACAATCCCAAGTGGACCGGAAGGACTGGAAGATCGGCTTCCAACCTGTG
 CAACCAGAAACAAATCAGACTGTTTCTACAGACATACTCCTCTGGGGTGGATGCAGTGAGGGAGTGGTAC
 CGTTCCATTACATCAACATTCTGTCCAGGCTGTCCGGACCTCGCCCGCTTAGAGGAAGAAGCCCTGG
 GCAACTTCATCTTACCTGTGCTTCAACCAGGCCCTGCAACCAGGCGAATTATTCCAAGTTCACCA
 CCCCATGTACGGAACTGCTACACTTTCAATGACAAGAACAACCCAATCTCTGGATGCTCTCCATGCT
 GGAGTCAACAATGGTTTGTCCCTGACACTGCGCACAGAGCAGAATGACTTCATCCCCCTGCTGTCCACAG
 TGACGGGGCCAGGGTGTGGTGCATGGTCAAGATGAGCCTGCCTTTATGGATGATGGTGGCTTCAACT
 GAGGCCTGGCGTGGAGACCTCCATCAGTATGAGAAAGGAAGCCCTGGACAGCCTCGGAGGAAATTACGGC
 GACTGTACTGAGAATGGTAGCGATGTCCCGGTCAAGAACCTTTACCCTTCCAAGTATACACAGCAGGTGT
 GCATTCCTCCTGCTTCCAGGAGAACATGATCAAGAAGTGTGGCTGTGCCTACATCTTCTACCCTAAGCC
 CAAGGGAGTTGAGTTCTGTGACTACCGAAAGCAGAGCTCCTGGGGCTATTGCTATTATAAACTGCAGGGC
 GCCTTCTCCTTGGACAGCCTGGGCTGTTTCTCCAAGTGTCCGAAGCCTTGTAGTGTGATCAACTACAAAC
 TCTCTGCCGGCTACTCACGGTGGCCATCTGTGAAGTCCCAGGATTGGATCTTCGAGATGCTGCTCCTTGA
 GAACAATTACACTATTAACAACAAAAGAAACGGAGTTGCAAAGCTCAACATCTTCTCAAGGAGCTGAAC
 TATAAACTAATTCGGAGTCTCCTTCTGTACGATGGTCAAGCCTCCTGTCCAACCTGGGCAGCCAGTGA
 GCCTGTGGTTTGGCTCGTCCGTGCTCTGTGGTGGAGATGGCGGAGCTCATCTTCGACCTCCTGGTCA
 CACTTCTCATGCTGCTACGCCGTTCCGGAGCCGGTACTGGTCTCAGGACGAGGGGCCAGGGGTGCC
 AGGGAGGTGGCCTCCACTCCAGCTTCTCCTTCCCGTCCCGTTTCTGTCTCACCCTACATCCCCACCAC
 CTCTTTTCCCCAGCAGGGCATGACCCCTCCCCTGGCCCTGACAGCCCTCCACCTGCCTATGCTACTCT
 AGGCCCAAGTGGCCCTCCACTGGACTCTGCGGCGCTGACTGTTCTGCCTGTGCCTGGCGGCGCTC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR208484 representing NM_031548
 Red=Cloning site Green=Tags(s)

MMLDHTRAPELNIDLHLASNSPKGSMKGNQFKEQDPCPPQPMQGLGKGDKREEQGLGPEPSAPRQPTEE
 EEALIEFHRSYRELFQFFCNNTTIHGAIKRLVCSKHNRMKTAFAWVWLCTFGMMYWQFALLFEEYLSYPV
 SLNINLNSDKLVFPAVTCTLNIPRYTEIKEELEELDRITEQTLFDLYKYNSSYTRQAGARRRSSRDLG
 AFPHPLQRLRTPPPYSGRTARSGSSSVRDNNPQVDRKDWKIGFQLCNQNKSDCFYQTYSSGVDVAVREWY
 RFHYINILSRLSDTSPALEEEALGNFIFTCRFNQAPCNQANYSKFHHPMYGNCYTFNDKNNLNWSSMP
 GVNNGLSLTLRTEQNDIFPLLSTVTGARVMVHGQDEPAFMDDGGFNLRPGVETSISMRKEALDSLGNYG
 DCTENGSDVPVKNLYPSKYTQQVCIHSCFQENMIKKCGCAYIFYPKPKGVEFCDYRKQSSWGVCYYKLQG
 AFSLDSLGCFSKCRKPCSVINYKLSAGYSRWPSVKSQDWIFEMLSLQNNYTINNKRNGVAKLNIFFKELN
 YKTNSESPSVTMVSLLSNLGSQWLVFGSSVLSVVEMAELIFDLLVITLLMLLRRFRSRYWSPGRGARGA
 REVASTPASSFSPRCPHPTSPPPSLPQQGMTPLALATPPPAYATLGPAPPLDSAAPDCSACALAAAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_031548

ORF Size: 2097 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_031548.2](#), [NP_113736.1](#)

RefSeq Size: 3395 bp

RefSeq ORF: 2100 bp

Locus ID: 25122

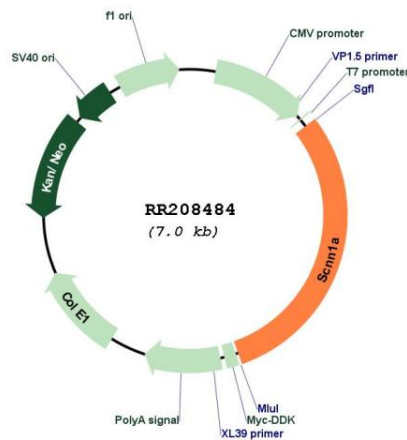
UniProt ID: [P37089](#)

Cytogenetics: 4q42

MW: 79 kDa

Gene Summary: acts as an epithelial sodium ion channel; regulates salt and fluid transport in the kidney [RGD, Feb 2006]

Product images:



Circular map for RR208484