

Product datasheet for **MR230754**

Scnn1b (NM_001272023) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scnn1b (NM_001272023) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Scnn1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR230754 representing NM_001272023
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAGTGAAGAAGTACCTCCTGAAGTGCCTGCACCGGCTGCAGAAGGGCCAGGCTACACCTACAAGG
AGCTGCTAGTGTGGTACTGCAATAACACCAACACCCACGGCCCCAACGCATCATCTGTGAGGGGCCAA
GAAGAAGGCCATGTGGTTCCTGCTTACGCTGCTCTTCGCCTGCCTGGTGTGCTGGCAGTGGGGAGTCTTC
ATCCAGACCTACCTGAGCTGGGAGGTACAGCTCTCGCTCTCCATGGGCTTCAAGACGATGAACCTCCCGG
CGGTACCGTCTGCAATTCAGCCCTTCCAGTACTCCAAGGTCAAGCACTTGCTCAAGGACTTGGATGA
GCTAATGGAGGCAGTCTGAAAAGATTCTGGCTCCAGAGGCCAGCCACAGCAACACCACCAGGACCCTG
AACTTTACCATCTGGAACCACACCCCCTGGTCTTATTGATGAGCGGAACCCTGACCACCCGGTGGTTC
TCAATTTGTTGGGGACAGCCACAACAGCAGCAACCCGGCTCCAGGAAGCACCTGCAATGCCAGGGATG
CAAAGTGGCCATGAGGCTGTGCACTGCCAATGGAAGTGTGTGTACCTTGGGAACCTCACCAGTCCACC
CAGGCCGTAAGTACTGAGTGGTACATCCTGCAGGCCACCAACATCTTCTCACAAGTGCTTCTCAGGACTGG
TGGGGATGGGCTATGCCCTGATCGCATAATCCTAGCTTGCCTGTTTGGAAACAGAGCCCTGCAGTATCG
GAACCTTACGCCTATCTTCTACCCTGATTATGGCAACTGTACATCTTCAACTGGGGCATGACAGAGGAG
ACACTTCTTCTGCCAACCTGGGACTGAATTTGGTCTCAAGTTGATCCTGGACATCGGTGAGGAGGACT
ATGTCCCCTTCTTGGCTCCACAGCAGGGGCTAGGCTGATGCTTCATGAGCAGAGGACGTACCCCTTCAT
TAGAGAGGAGGGCATCTATGCCATGGCAGGAAGTGAAGCTGATGAGGAGGAGGAGGAGGAGGAGGAGG
CGCAAGGGGGAGCCCTACAGTCCCTGCACCATGAACGGCTCCGATGTTGCCATAAAGAACCCTACAGTG
TCTACAACACCACCTATTCCATCCAGGCCTGTCTTATTCTGTTTCCAAGACCACATGATCCGTAACCTG
CAGTTGTGGCCACTACTTATACCCACTGCCTGAAGGAGAGAAATACTGCAACAACAGGGACTTCCCAGAC
TGGGCCTATTGCTATCTAAACCTGCAGATGAGTGTGACCCAGAGAGAGACCTGCCTCAGCATGTGCAAGG
AGTCTGCAATGACACCCAGTATAAGATGACCATCTCCATGGCTGACTGGCCATCTGAGGCCTCTGAGGA
TTGGATCTTACATGCTCTGCTCAGGAGCGGGACCAGAGCTCGAATATCACCCCTGAGCAGGAAGGGTATT
GTCAAGCTCAATATCTACTTCCAAGAGTTCAACTACCGTACCATTGAGGAATCTCCAGCCAACAATATTG
TGTGGCTGCTCTAACCTGGGGGGCCAGTTGGCTTCTGGATGGGGGGCTCGGTGCTGTGCCTCATTGA
GTTTGGGGAGATCATTATCGACTTCAATTTGGATCACCATCATCAAGCTGGTGGCCTCCTGCAAAGGCCTG
CGCAGGAGGGCCACAGGCACCCTACTGCCCCACCGCCACTGTGGCTGAGCTGGTAGAGGCCACA
CCAACCTTTGGCTTCCAGCCTGACACAACCAGCTGCAGGCCCCACGGCGAGGTCTACCCTGACCAACAGAC
TCTGCCATCCCAGGGACTCCACCCCAACTATGACTCCCTGAGGCTGCAGCCGCTGGACACCATGGAG
TCGGACAGTGAGGTGGAGGCCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230754 representing NM_001272023
 Red=Cloning site Green=Tags(s)

MPVKKYLKCLHRLQKGPYTYKELLVWCNNTNTHGPKRIICEGPKKKAMWFLLTLLFACLVCWQWGVF
 IQTYLSWEVSVLSMGFKTMNFPVAVTVCNSSFQYSKVKHLLKDLDELMEAVLEKILAPEASHSNTTRTL
 NFTIWNHTPLVLIDERNPDHPVVLNLFGDSHNSSNPAPGSTCNAQGCKVAMRLCSANGTVCTLRNFTSAT
 QAVTEWYILQATNIFSQVLPQDLVGMGYAPDRIILACLFGTEPCSHRNFTPIFYPDYGNCFIFNWGMTEE
 TLPSPANPGTEFGLKLILDIGQEDYVPFLASTAGARMLLHEQRTYPIREEGIYAMAGTETSIGVLVDKLQ
 RKGEYPSPCTMNGSDVAIKNLYSVYNTTYSIQAQLHSCFQDHMIRNCSGHYLYPLPEGEKYCNRRDFPD
 WAYCYLNLQMSVTQRETCLSMCKESCNDTQYKMTISMADWPSEASEDWILHVLQERDQSSNITLSRKGI
 VKLNIYQEFNYRTIEESPANNIVLLSNLGGQGFWMGGSVLCLEIFGEI IIDFIWITIIKLVASCKGL
 RRRRPQAPYTPPPTVAELVEAHTNFGFQPDTTSCRPHGEVYDPDQTLPIPGTPPPNYDSLRLQPLDTE
 SDSEVEAI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001272023

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_001272023.1](#), [NP_001258952.1](#)

RefSeq Size: 2697 bp

RefSeq ORF: 1917 bp

Locus ID: 20277

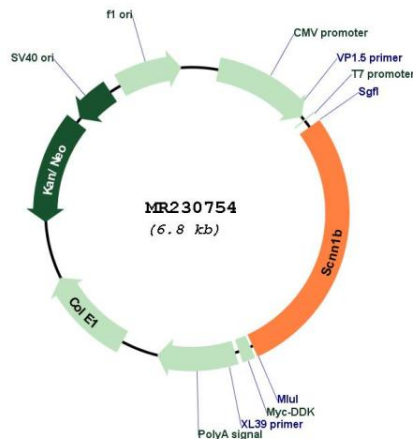
UniProt ID: [Q9WU38](#)

Cytogenetics: 7 65.07 cM

MW: 72.2 kDa

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 sweat glands. Also plays a role in taste perception.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230754