

Product datasheet for **MC223511**

Slc4a4 (NM_001136260) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc4a4 (NM_001136260) Mouse Untagged Clone
Tag: Tag Free
Symbol: Slc4a4
Synonyms: AI835705; NBC; NBC1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223511 representing NM_001136260
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGGATGAAGCTGCTCTGGACAGGGGCTTCTTCCTTAACATGTGTGTGATGAAGAAGAAGTAG
AAGGTCACCACACGATCTACATTGGGGTCCATGTGCCAAGAGCTACCGGAGAAGGAGACGCCACAAGAG
GAAGGCTGGGCACAAGGAAAAGAAGGAAAAGGAGAGAATCTCCGAGAACTACTCCGACAAATCTGATGTG
GAGAATGCGGATGAGTCCAGCAGCAGTATCCTCAAACCCCTCATCTCCCCGGCCGAGAACGCATCCGAT
TCATCTTGGGAGAGGAAGATGACAGCCCGGCACCTCCTCAGCTTTCACGGAACCTCGATGAGCTTCTGGC
TGTGGATGGACAGGAGATGGAATGGAAGGAGACAGCGAGGTGGATTAAGTTTGAAGAGAAAGTGGAGCAG
GGTGGGAGCGATGGAGCAAACCCCATGTGGCCACCTTGTCCCTGCACAGCCTGTTTGGAGCTGAGGACAT
GTATGGAGAAAGGATCCATCATGCTTGACCGGGAGGCATCTTCTCTCCACAGCTGGTGGAGATGATTGC
AGACCACCAGATCGAGACAGGCCCTACTGAAGCCTGACCTGAAGGATAAGGTCACCTATACTCTGCTCCGG
AAACATCGACATCAAACCAAGAAATCAAACCTTCGGTCCCTGGCTGACATTGGGAAGACTGTCTCCAGTG
CAAGTAGGATGTTTAGCAACCTGATAATGGCAGCCAGCCATGACCCACAGGAATCTGACATCTCCAG
TCTCAATGACATTTCTGATAAACCCAGAGAAGGATCAGCTGAAGAATAAATTCATGAAAAAACTGCCCGA
GATGCGGAAGCTTCCAATGTGCTTGTGGGAGGTTGACTTCTTGGACACTCCCTTCATTGCCTTTGTTT
GCCTACAGCAGGCTGTGCTGCTGGTGCCTGACTGAGGTCCCTGTGCCACAAGGTTCTTGTTCATTCT
CTTAGGTCCAAAGGGGAAAGCCAAGTCTACCATGAGATTGGAAGAGCTATCGCCACCTTGATGTCTGAC
GAGGTGTTCCACGACATCGTTACAAAGCGAAAGACAGACACGACCTGATTGCTGGCATTGATGAGTTCT
TAGATGAAGTCATTGTCTTCCACCTGGGGAATGGGACCCACAATCCGAATAGAGCCTCCAAAGAGTCT
CCCATCATCTGACAAAAGAAAGAATATGTAAGTACTCAGGTGGAGAGAATGTTTCAGATGAATGGGACACACCT
CATGATGGAGGCCACGGAGGAGGAGACATGGTACTGTGAAGAACTACAGAGAAGTGGCCGGTTCTGCG
GTGGATTAATTAAGGACATAAAGAGGAAAGCACCATTTTTGCCAGTGACTTTTATGATGCTTTAAACAT
TCAGGCTCTCTGCGATTCTTTCATTATCTGGCAACCGTAACCAACGCCATCACTTTTGGAGGCCCTG
CTCGGGGATGCCACCGACAACATGCAGGGTGTGTTGGAGAGTTTCTGGGCACTGCTGTCTCCGGAGCCA



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TCTTCTGCCTTTTTGCGGGTCAACCGCTTACCATCTTGAGCAGCACGGGACCAGTGTGGTGTGGAGAG
 GCTTCTTTTTAACTTCAGCAAGGACCATAATTTTGACTACTTGGAGTTTCGTCTTTGGATTGGCCTGTGG
 TCAGCCTTCATGTGTCTTGTCTGGTGGCCACTGATGCGAGCTTCTGGTTTCAGTACTTCACCCGTTTCA
 CAGAAGAAGGTTTCTCCTCTCATCAGCTTTCATCTCATCTATGATGCTTTCAAGAAGATGATCAAGCT
 AGCAGATTACTATCCCATCAACTCTGACTTCAAAGTGGGTTACAATACTCACTTCTTTGTGCTTGCCTG
 CCACCCGACCCAGTTAATCTCTCAGTATCTAATGATACCACACTAGCCCCAGAGGACCTGCCGACCATT
 CTTCTACTGACATGTACCATAATGTCACCTTTGACTGGGCTATTTGTCAAAGAAGGAGTGTGAAGTA
 TGGAGGGAAGCTCGTGGGAAACAACCTGTGACTTGGTGCCTGATATCACACTCATGCTTTCATTCTCTTC
 CTGGGCACCTTACACCTCGTCTATGGCTATGAAGAAATTCAAAACCACTCGCTATTTTCCAACCACAGCAA
 GAAAACCTGATCAGTGATTTTGCATTATCCTGTCCATTCTCATATTCTGTGTAATAGATGCCCTAGTCGG
 CGTGGACACTCCGAAGCTCATTGTACCAAGTGAGTTCAAGCCAACAAGTCCTAACAGGGGTTGGTTTGTG
 CCGCCATTTGGAGGAAACCCTTGGTGGGTGTGCCTTGTGCTGCCATCCCGGCTTTGCTAGTCACCATCC
 TGATTTTCATGGACCAGCAGATCACCGCTGTGATTGTGAACAGGAAAGAGCATAAACTCAAGAAAGGAGC
 TGGGTATCACCTGGATCTGTTTTGGGTCCCATCCTCATGGTGGTATGCTCCTTCATGGCTTCCCTGG
 TATGTGGCTGCTACTGTTATCTCCATTGCCACATTGACAGTCTGAAGATGGAGACGGAGACATCTGCCG
 CTGGAGAACAAACCAAAATTTCTGGGAGTAAGGGAACAACGAGTCACTGGAACCTTGTGTTATTCTGAC
 TGGCCTGTGAGTCTTCATGGCTCCCATCCTGAAGTTTATCCCGATGCCTGTGCTGTATGGTGTGTTCTCTG
 TATATGGGGTGGCCTCACTTAACGGTGTGCGATTTCATGGACCGTCTCAAGCTGCTGCTGATGCCCTTGA
 AGCATCAGCCGACTTCTACCTGCGCCACGTCCCCCTCCGCCGAGTCCACCTGTTACCTTCTCTGCA
 GGTGTTGTGCCTGGCTCTGCTCTGGATCCTCAAGTCAACAGTGGTGCATTAATTTTTCTGTATGATC
 CTGGCCCTGGTAGCAGTCAGAAAAGGTATGGATTACCTCTTCTCCAGCAGCACCTCAGCTTCTTTGATG
 ATGTCATTCAGAAAAGGACAAGAAAAAGAGGAGGACGAGAAGAAAAAGAAAAAGAAAGGAAGTTT
 GGATAGCGACAATGACGATGAGAAAGATCCTCAACATTCTCGAACGCCACACATCATGCTGATAAAAT
 CCTTTCTTGTGAGTCGCTGGGTTTACCCAGTCTCCAAGAACTCCAGTGAAGTCTGCTCAAATTAGAA
 TCGAACGTGAGCCTGAAGACAACGATTATCTTTGGAGGAGCAAGGGAACGAAACCAGTTGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_001136260

Insert Size:

3285 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001136260.1](#), [NP_001129732.1](#)

RefSeq Size: 7395 bp

RefSeq ORF: 3285 bp

Locus ID: 54403

UniProt ID: [O88343](#)

Cytogenetics: 5 E1

Gene Summary: Electrogenic sodium/bicarbonate cotransporter with a Na(+):HCO₃(-) stoichiometry varying from 1:2 to 1:3. May regulate bicarbonate influx/efflux at the basolateral membrane of cells and regulate intracellular pH.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks an alternate in-frame exon and another exon in the 3' end compared to variant 4, that causes a frameshift. The resulting isoform (b) lacks an alternate internal segment and has a shorter and distinct C-terminus compared to isoform d.