

Product datasheet for MC223478

Slc4a4 (NM_018760) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc4a4 (NM_018760) Mouse Untagged Clone
Tag: Tag Free
Symbol: Slc4a4
Synonyms: A1835705; NBC; NBC1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC223478 representing NM_018760
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAGGATGAAGCTGTCTGGACAGAGGGCTTCCTTCCTTAACATGTGTGTGATGAAGAAGAAGTAG
 AAGGTCACCACACGATCTACATTGGGGTCCATGTGCCAAGAGCTACCGGAGAAGGAGACGCCACAAGAG
 GAAGGCTGGGCACAAGGAAAAGAAGGAAAAGGAGAGAATCTCCGAGAAGTACTCCGACAAATCTGATGTG
 GAGAATGCGGATGAGTCCAGCAGCAGTATCCTCAAACCCCTCATCTCCCGGCCCGCAGAACGCATCCGAT
 TCATCTTGGGAGAGGAAGATGACAGCCCGGCACCTCCTCAGCTCTTCACGGAAGTTCGATGAGCTTCTGGC
 TGTGGATGGACAGGAGATGGAATGGAAGGAGACAGCGAGGTGGATTAAGTTTGAAGAGAAAGTGGAGCAG
 GGTGGGGAGCGATGGAGCAAACCCCATGTGGCCACCTTGTCCCTGCACAGCCTGTTTGAGCTGAGGCAT
 GTATGGAGAAAGGATCCATCATGCTTGACCGGGAGGCATCTTCTCTCCACAGCTGGTGGAGATGATTGC
 AGACCACCAGATCGAGACAGGCCACTGAAGCCTGACCTGAAGGATAAGGTCACTATACTCTGCTCCGG
 AAACATCGACATCAAACCAAGAAATCCAACCTTCGGTCCCTGGCTGACATTGGGAAGACTGTCTCCAGTG
 CAAGTAGGATGTTTAGCAACCTGATAATGGCAGCCAGCCATGACCCACAGGAATCTGACATCTCCAG
 TCTCAATGACATTTCTGATAAACAGAGAAGGATCAGCTGAAGAATAAATTCATGAAAAAAGTCCCGCA
 GATGCGGAAGCTTCCAATGTGCTTGTGGGGAGGTTGACTTCTGGACACTCCCTCATTGCCTTTGTTC
 GCCTACAGCAGGCTGTATGCTGGGTGCCCTGACTGAGGTCCCTGTGCCACAAGTTCTTGTTCATTCT
 CTTAGGTCCAAAGGGGAAAGCCTCAAGTCCATACCATGAGATTGGAAGAGCTATCGCCACCTTGATGTCTGAC
 GAGGTGTTCCACGACATCGCTTACAAAGCGAAAGACAGACACGACCTGATTGCTGGCATTGATGAGTTCT
 TAGATGAAGTCATTGTCTTCCACCTGGGGAATGGGACCCACAATCCGAATAGAGCCTCCAAAGAGTCT
 CCCATCATCTGACAAAAGAAAGAATATGTACTCAGGTGGAGAGAATGTTTCAGATGAATGGGGACACACCT
 CATGATGGAGGCCACGGAGGAGGAGGACATGGTGACTGTGAAGAAGTACAGAGAAGTGGCCGGTTCTGCG
 GTGGATTAATTAAGGACATAAAGAGGAAAGCACCATTTTTGCCAGTGACTTTTATGATGCTTTAAACAT
 TCAGGCTCTCTGCGATTCTTTCATTATCTGGCAACCGTAACCAACGCCATCACTTTTGAGGCGCTG



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CTCGGGGATGCCACCGACAACATGCAGGGTGTGTTGGAGAGTTTCTGGGCACTGCTGTCTCCGGAGCCA
TCTTCTGCCTTTTTGCGGGTCAACCGCTTACCATCTTGAGCAGCACGGGACCAGTGTGGTGTGGAGAG
GCTTCTTTTTAACTTCAGCAAGGACCATAATTTTGACTACTTGGAGTTTCGTCTTTGGATTGGCCTGTGG
TCAGCCTTCATGTGTCTGTCTGGTGGCCACTGATGCGAGCTTCTGGTTCAGTACTTCACCCGTTTCA
CAGAAGAAGGTTTCTCCTCTCATCAGCTTCACTTCTATGATGCTTTCAAGAAGATGATCAAGCT
AGCAGATTACTATCCCATCAACTCTGACTTCAAAGTGGGTTACAATACTCACTTCTTTGTGCTTGCCTG
CCACCCGACCCAGTTAATCTCTCAGTATCTAATGATACCACTAGCCCCAGAGGACCTGCCGACCATTT
CTTCTACTGACATGTACCATAATGTCACCTTTGACTGGGCTATTTGTCAAAGAAGGAGTGTGAAGTA
TGGAGGGAAGCTCGTGGGAAACAACCTGTGACTTGTGCCTGATATCACACTCATGCTTTCATTCTCTTC
CTGGGCACTTACACCTCGTCTATGGCTATGAAGAAATTCAAAACCACTGCTATTTTCCAACCACAGCAA
GAAAACCTGATCAGTGATTTTGCATTATCTGTCCATTCTCATATTCTGTGTAATAGATGCCCTAGTCGG
CGTGGACACTCCGAAGCTCATTGTACCAAGTGAGTTCAAGCCAACAAGTCTAACAGGGGTTGGTTTGTG
CCGCCATTTGGAGGAAACCCTTGGTGGGTGTGCCTTGTGCTGCCATCCCGGCTTTGCTAGTCACCATCC
TGATTTTCATGGACCAGCAGATCACCGCTGTGATTGTGAACAGGAAAGAGCATAAACTCAAGAAAGGAGC
TGGGTATCACCTGGATCTGTTTTGGGTCCCATCTCATGGTGGTATGCTCCTTCATGGCTTCCCTGG
TATGTGGCTGCTACTGTTATCTCCATTGCCACATTGACAGTCTGAAGATGGAGACGGAGACATCTGCGC
CTGGAGAACAACCAAAATTTCTGGGAGTAAGGGAACAACGAGTCACTGGAACCTTGTGTTTATTCTGAC
TGGCCTGTGAGTCTTTCATGGCTCCCATCTGAAGTTTATCCCGATGCCTGTGCTGTATGGTGTGTTCTG
TATATGGGGTGGCCTCACTTAACGGTGTGAGTTCATGGACCGTCTCAAGCTGCTGCTGATGCCCTTGA
AGCATCAGCCCGACTTCACTACCTGCGCCACGTCCCCCTCCGCCGAGTCCACCTGTTACCTTCTGCA
GGTGTGTGCCTGGCTCTGCTCTGGATCCTCAAGTCAACAGTGGCTGCAATATTTTTCTGTTATGATC
CTGGCCCTGGTAGCAGTCAGAAAAGGTATGGATTACCTTCTCCAGCAGCACCTCAGTCTCCTTGATG
ATGTCATTCCAGAAAAGGACAAGAAAAGGAGGAGGACGAGAAGAAAAGAAAAGAAAAGAAAGGAAAGTTT
GGATAGCGACAATGACGATTCTGACTGCCATACCTCAGAAAAGGTCCCCAGTATTAATAATCCAATGGAC
ATCATGGAACAGCAACCTTTCTAAGTGATAACAAACCCTTGGACAGAGAAGATCCTCAACATTCTCG
AACGCCACACATCATGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_018760
- Insert Size:** 3240 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_018760.2](#), [NP_061230.2](#)

RefSeq Size: 7492 bp

RefSeq ORF: 3240 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 (1) lacks an alternate in-frame exon compared to variant 4. The resulting isoform (a) has the same N- and C-termini but is shorter compared to isoform d.
CCDS Note: The coding region has been updated to represent a CDS sequence that is better supported by available transcript data and the reference genome sequence. The protein length is unchanged.