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# Product datasheet for MC229334

## Slc4a4 (NM_001197147) Mouse Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Slc4a4 (NM_001197147) 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:**

>MC229334 representing NM_001197147
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGATGAAGCTGTCCTGGACAGAGGGGCTTCCTTCCTTAAACATGTGTGTGATGAAGAAGAAGTAG
AAGGTCACCACACGATCTACATTGGGGTCCATGTGCCCAAGAGCTACCGGAGAAGGAGACGCCACAAGAG
GAAGGCTGGGCACAAGGAAAAGAAGGAAAAGGAGAGAATCTCCGAGAACTACTCCGACAAATCTGATGTG
GAGAATGCGGATGAGTCCAGCAGCAGTATCCTCAAACCCCTCATCTCCCCGGCCGCAGAACGCATCCGAT
TCATCTTGGGAGAGGAAGATGACAGCCCGGCACCTCCTCAGCTCTTCACGGAACTCGATGAGCTTCTGGC
TGTGGATGGACAGGAGATGGAATGGAAGGAGACAGCGAGGTGGATTAAGTTTGAAGAGAAAGTGGAGCAG
GGTGGGGAGCGATGGAGCAAACCCCATGTGGCCACCTTGTCCCTGCACAGCCTGTTTGAGCTGAGGACAT
GTATGGAGAAAGGATCCATCATGCTTGACCGGGAGGCATCTTCTCTCCCACAGCTGGTGGAGATGATTGC
AGACCACCAGATCGAGACAGGCCTACTGAAGCCTGACCTGAAGGATAAGGTCACCTATACTCTGCTCCGG
AAACATCGACATCAAACCAAGAAATCCAACCTTCGGTCCCTGGCTGACATTGGGAAGACTGTCTCCAGTG
CAAGCAGCCCAGCCATGACCCACAGGAATCTGACATCCTCCAGTCTCAATGACATTTCTGATAAACCAGA
GAAGGATCAGCTGAAGAATAAATTCATGAAAAAACTGCCCCGAGATGCGGAAGCTTCCAATGTGCTTGTT
GGGGAGGTTGACTTCTTGGACACTCCCTTCATTGCCTTTGTTCGCCTACAGCAGGCTGTCATGCTGGGTG
CCCTGACTGAGGTCCCTGTGCCCACAAGGTTCTTGTTCATTCTCTTAGGTCCAAAGGGGAAAGCCAAGTC
CTACCATGAGATTGGAAGAGCTATCGCCACCTTGATGTCTGACGAGGTGTTCCACGACATCGCTTACAAA
GCGAAAGACAGACACGACCTGATTGCTGGCATTGATGAGTTCTTAGATGAAGTCATTGTCCTTCCACCTG
GGGAATGGGACCCCACAATCCGAATAGAGCCTCCAAAGAGTCTCCCATCATCTGACAAAAGAAAGAATAT
GTACTCAGGTGGAGAGAATGTTCAGATGAATGGGGACACACCTCATGATGGAGGCCACGGAGGAGGAGGA
CATGGTGACTGTGAAGAACTACAGAGAACTGGCCGGTTCTGCGGTGGATTAATTAAGGACATAAAGAGGA
AAGCACCATTTTTTGCCAGTGACTTTTATGATGCTTTAAACATTCAGGCTCTCTCTGCGATTCTCTTCAT
TTATCTGGCAACCGTAACCAACGCCATCACTTTTGGAGGCCTGCTCGGGGATGCCACCGACAACATGCAG
GGTGTGTTGGAGAGTTTCCTGGGCACTGCTGTCTCCGGAGCCATCTTCTGCCTTTTTGCGGGTCAACCGC

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TTACCATCTTGAGCAGCACGGGACCAGTGTTGGTGTTTGAGAGGCTTCTTTTTAACTTCAGCAAGGACCA
TAATTTTGACTACTTGGAGTTTCGTCTTTGGATTGGCCTGTGGTCAGCCTTCATGTGTCTTGTCCTGGTG
GCCACTGATGCGAGCTTCCTGGTTCAGTACTTCACCCGTTTCACAGAAGAAGGTTTCTCCTCTCTCATCA
GCTTCATCTTCATCTATGATGCTTTCAAGAAGATGATCAAGCTAGCAGATTACTATCCCATCAACTCTGA
CTTCAAAGTGGGTTACAATACTCACTTCTCTTGTGCTTGCCTGCCACCCGACCCAGTTAATCTCTCAGTA
TCTAATGATACCACACTAGCCCCAGAGGACCTGCCGACCATTTCTTCTACTGACATGTACCATAATGTCA
CCTTTGACTGGGCCTATTTGTCAAAGAAGGAGTGTGTGAAGTATGGAGGGAAGCTCGTGGGAAACAACTG
TGACTTCGTGCCTGATATCACACTCATGTCCTTCATTCTCTTCCTGGGCACTTACACCTCGTCTATGGCT
ATGAAGAAATTCAAAACCAGTCGCTATTTTCCAACCACAGCAAGAAAACTGATCAGTGATTTTGCCATTA
TCCTGTCCATTCTCATATTCTGTGTAATAGATGCCCTAGTCGGCGTGGACACTCCGAAGCTCATTGTACC
AAGTGAGTTCAAGCCAACAAGTCCTAACAGGGGTTGGTTTGTCCCGCCATTTGGAGGAAACCCTTGGTGG
GTGTGCCTTGCTGCTGCCATCCCGGCTTTGCTAGTCACCATCCTGATTTTCATGGACCAGCAGATCACCG
CTGTGATTGTGAACAGGAAAGAGCATAAACTCAAGAAAGGAGCTGGGTATCACCTGGATCTGTTTTGGGT
CGCCATCCTCATGGTGGTATGCTCCTTCATGGCTCTTCCCTGGTATGTGGCTGCTACTGTTATCTCCATT
GCCCACATTGACAGTCTGAAGATGGAGACGGAGACATCTGCGCCTGGAGAACAACCAAAATTTCTGGGAG
TAAGGGAACAACGAGTCACTGGAACCCTTGTGTTTATTCTGACTGGCCTGTCAGTCTTCATGGCTCCCAT
CCTGAAGTTTATCCCGATGCCTGTGCTGTATGGTGTGTTCCTGTATATGGGGGTGGCCTCACTTAACGGT
GTGCAGTTCATGGACCGTCTCAAGCTGCTGCTGATGCCCTTGAAGCATCAGCCCGACTTCATCTACCTGC
GCCACGTCCCCCTCCGCCGAGTCCACCTGTTCACCTTCCTGCAGGTGTTGTGCCTGGCTCTGCTCTGGAT
CCTCAAGTCAACAGTGGCTGCAATTATTTTTCCTGTTATGATCCTGGCCCTGGTAGCAGTCAGAAAAGGT
ATGGATTACCTCTTCTCCCAGCACGACCTCAGCTTCCTTGATGATGTCATTCCAGAAAAGGACAAGAAAA
AGAAGGAGGACGAGAAGAAAAAGAAAAAGAAGAAAGGAAGTTTGGATAGCGACAATGACGATTCTGACTG
CCCATACTCAGAAAAGGTCCCCAGTATTAAAATTCCAATGGACATCATGGAACAGCAACCTTTCCTAAGT
GATAACAAACCCTTGGACAGAGAAAGATCCTCAACATTCCTCGAACGCCACACATCATGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_001197147

**Insert Size:** 3213 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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

**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.

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| **RefSeq:** | NM_001197147.1, NP_001184076.1 |
| **RefSeq Size:** | 7465 bp |
| **RefSeq ORF:** | 3213 bp |
| **Locus ID:** | 54403 |
| **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]<br>Transcript Variant: This variant (3) lacks an alternate in-frame exon and uses an alternate in-frame splice junction compared to variant 4, that causes a frameshift. The resulting isoform (c) has the same N- and C-termini but is shorter compared to isoform d. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. |