

Product datasheet for **MC203205**

Slc4a8 (NM_021530) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc4a8 (NM_021530) Mouse Untagged Clone
Tag: Tag Free
Symbol: Slc4a8
Synonyms: AW493845; C230026C11; kNBC-3; NDCBE
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >BC030388

```
CCACGCGTCCGCGGTTGATGGTTGACCGATCCTTGGATCCAGGGTAGGGTTCGCTGCGCGTGGATCGTC
TCACACTGGACTACAGGGCGCGGACTGCTGCAGCTCAACCTGGAACCTACCGGCGAGACCAGGCTCCGCC
CGGCCATGCCCGCGGGAGCAACGAGCCGACGCGCTCCTCAGCTATCAGAGGCCAGATGAGGAAGCTGT
GGTGGATCAGGGTGGGACCAGCAACAATTCTCAACATTCATATGAGAAAGAGAGTTGGAAGGTCATAGA
ACTCTGTATGTGGGGTTCGGATGCCGCTGGGAGGCAGAGCCATCGGCACCACCGCACTCATGGCCAGA
AGCACCAGGAGACGAGGAGGGCGGGCAAAGGAGCCAGCCAGGGCGAGGAGGGCTTGAAGCCTTGGCCCA
CGACACCCCGTCTCAGCGTGTTCAGTTCATTCTTGGCACTGAGGAAGATGAAGAATGTGCCTCATGAG
CTTTACAGAGCTGGACGAGATCTGTATGAAAGAGGGGAAGATGCTGAGTGAAGGAGACGGCCAGGT
GGCTGAAGTTTGAAGAGGATGTGGAGGACGGGGAGAGCGCTGGAGCAAGCCTTACGTGGCCACGCTCTC
TCTGCACAGCCTGTTTGAAGTGTGAGGAGCTGCCTCATCAACGGCTCTGTGCTTCTGGACATGCGTGAAGT
AGCATAGAGGAGATCTCAGACCTGATCCTGGACCAGCAGGAGCTGCTCCGAGACCTGAGGACAGCGTGA
GGGTTAAAGTGGCGGAAGCCCTGCTGAAGAAGCACCACCAGAACGAGAGGAGGGAACAACCTCAT
CCCCATCGTCCGCTCCTTCGCTGAGGTTGGCAAGAAGCAGTCTGACCCGCACTCCATGGACAGAGATGGG
CAAACGGTGTCTCCTCAGTCAGTACAAACCTTGAAGTGAAGAATGGTGTGAAGTGTGAGCACAGCCCTG
TGGATCTAAGCAAGGTGGATCTTCACTTCATGAAAAAATTTCCACGGGGCAGAGGCCTCCAATGTCTCT
GGTGGGAGAGGTGGATACGCTGGACCGCCCATCGTGGCCTTCGTGAGGCTCTCCCGGCTGTGCTGCTC
TCTGGCCTGACGGAAGTGCCCATCCCAACGAGGTTTTTTGTTTATCTTACTGGGCCAGTGGGAAAAGGGC
AGCAGTACCATGAGATTGGCAGTCCATGGCCACCATCATGACGGACGAGATTTTTTCATGATGTGGCATA
TAAAGCAAAGGAACGCGATGACCTCCTGGCAGGATTGACGAGTTCCTGGACCAGGTGACGGTGTCTCCG
CCAGGGGAGTGGGACCCATCTATTAGAATTGAGCCACCCAAGAATGTCCCTTCCCAGGAAAAAGGAAAA
TGCCCGGTGTTCCAAACGAAACGTTTGGCACATAGAACCAGAGCCACATGGGGGCACAGTGGCCAGA
ACTGGAGCGGACTGGGCGGCTGTTTGGGGCTTGGTGTGGATGTCAAGCGGAAGGCTCCCTGGTACTGG
AGTGACTACCGGATGCTCTCAGCTTACAGTGTCTGGCCTCCTTCTGTTCTGTACTGTGCTGCATGT
CGCCCGTTATCACCTTCGGGGGACTGCTGGGAGAAGCCACTGAAGGACGCATAAGTGCATTGAGTCGTT
GTTTGGAGCGTCCATGACGGGATTGCCTACTCTGTGTTGCTGGGCAGCCTCTCACCATCTGGGAAGC
ACGGGGCCCGTGTGTTGTTGAAAAGATTTTGTCAAATCTGCAAGGACTATGCCCTTTCGTACCTGT
```



[View online »](#)

```

CCCTGCGGGCTCTCATCGGGCTGTGGACTGCCTTCTGTGCATCGTCTGGTGGCCACGGATGCCAGCTC
CCTCGTCTGTACATTACCCGCTTACCAGGAAGCGTTTGCCTCCCTGATTTGTATCATCTTACATCTAT
GAAGCCATAGAAAAGCTGATCCACCTGGCAGAGACCTACCCCATCCACATGCACAGCCAGCTGGACCACC
TGAGCCTCTATTACTGCAGGTGTGTGCTCCCGGAGAATCCAAACAACCACACCTTACAGTATTGGAAGGA
CCACAACATCCTGGTGCCGAAGTGAAC TGGGCAAACCTGACAGTCAGCGAATGCCAGGAGATGCACGGG
GAGTTTCATGGGATCTGCCTGCGGTACCACGGACCCTACACGCCGACGTGCTCTTTTGGTCTGCATTG
TGTTCTTCGCCACCTTCATCGTCTCCAGCACCTTAAAGACATTTAAGACAAGCCGCTACTTCCCGACCAG
GGTCCGCTCCATGGTGAGTGACTTCGCCGTGTTCTCCTCACCATCTTACCATGGTGGTCTTGACTTCTG
ATTGGCGTCCCGTCGCCAAAGCTTCAGGTTCCCAATGTGTTCAAGCCAACAAGGGACGATCGAGGATGGT
TTATTAATCCCATTGGCCCAATCCCTGGTGGACTGTGATAGCCGCAATTATCCCAGCTCTCCTGTGCAC
TATCCTGATATTCATGGACCAGCAGATCACCGCTGTCATCATTAAACAGGAAGGAACAAGCTCAAGAAA
GGCTGTGGCTACCACCTGGACCTGCTCATGGTGGCCGTCATGCTGGGAGTTTGTCCATCATGGCCTGC
CTTGGTTTGTGGCCGCGACCGTCTGTCCATTACCCATGTGAACAGCCTCAAGCTGGAATCCGAATGCTC
TGCCCCGGGGAGCAGCCCAAGTTCTTGGGCATCCGGAAACAGAGAGTACAGGGCTTATGATCTTCGTG
CTGATGGGCTGCTCAGTCTTCATGACAGCTGTCTTAAAGTTTATCCCGATGCCAGTGTCTACGGAGTTT
TCCTCTACATGGGAGTCTTTCGCTACAAGGAATCCAGTTCCTCGACCGTCTGAAGCTTTTCGGGATGCC
TGCAAAAACACCAGCCAGACTTACATCTACCTGCGGCACGTGCCGCTGCGCAAGGTGCACCTGTTACAGCTA
GTGCAGCTCACCTGCCTCGTCTGCTCTGGGTCATCAAGGCATCGCCGGCCGCTTGTTCCTCCCAATGA
TGGTGTGGCCTTGGTCTTCGTGAGGAAAGTATGGATCTCTGCTTCTCCAAGCGTGAGCTAAGCTGGCT
GGACGACCTCATGCCTGAGAGCAAAAAGAAGAAGCTGGACGATGCGAAGAAGAAGGAGGAGGAGGAGGCC
GAGAAGATGTTGGACATTGGGGGTGACAAGTTTCCCCTGGAAAGCAGGAAGCTGCTAAGTAGTCTGGCA
AGAGCAGCAGCTTCAGATGTGACCCTTCTGAGATTAATATATCAGATGAAATGCCTAAAACCACGGTCTG
GAAGGCTCTCAGCATAAATTCGGAAATACAAAAGAAAAAGCCCTTCAACTGAGAGTCTCTGCTGAGT
GGAAGATTTGGACCATGAGGTGCCTCGGAGAAGTTCTGGGTTTTAACAAAATGGCGAGTCTCTCCGGGAA
GAAGCCGAGCTGAGTCTGGCCCCGTTCTTGGTCTCTCAAGCCATGCCACATGGAAGCATTCAAGTCACT
CCCAGTGTGCGTTTGGAGGACATCCAGCTACCCACATACCAGCAGCCAGGCGCCAGTCCGGTTCATGGTGG
GGCCGCTCCCGTGCCTCCTTCTCTCTCTCTCTCTCTCTCAGAGCTGCCATCATTAAAGAGCCAGCT
TCCATTTTCAGACAAAAA
  
```

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_021530
- Insert Size:** 3270 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:** [BC030388](#), [AAH30388](#)

RefSeq Size: 3738 bp

RefSeq ORF: 3270 bp

Locus ID: 59033

UniProt ID: [Q8JZR6](#)

Cytogenetics: 15 F1

Gene Summary: Mediates electroneutral sodium- and carbonate-dependent chloride-HCO₃⁻ exchange with a Na⁽⁺⁾:HCO₃⁻ stoichiometry of 2:1. Plays a major role in pH regulation in neurons. May be involved in cell pH regulation by transporting HCO₃⁻ from blood to cell. Enhanced expression in severe acid stress could be important for cell survival by mediating the influx of HCO₃⁻ into the cells. Also mediates lithium-dependent HCO₃⁻ cotransport. May be regulated by osmolarity.[UniProtKB/Swiss-Prot Function]