

Product datasheet for MC223662

Slc9c1 (NM_198106) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc9c1 (NM_198106) Mouse Untagged Clone
Tag: Tag Free
Symbol: Slc9c1
Synonyms: Gm610; NHE-10; Slc9a10; sNHE; spermNHE
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223662 representing NM_198106
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAAATGGAAGAAATTTCTGAAAATTTAACTGCATCCCACAGTATCAAACCTGACTAATATGTGGCTGG
 AACTTCTCAAAGTGTGTTTCTGAGCACTCCCCAGGACCTCCCTGAAATCATCCTGATACTATCTTTGAT
 CTGTACAGTTGGAGCATTTTTGAACATGCATCTGAAAGATTTTCCAATTCCTCTTCTGTGATACTATTT
 TTAATTGGATGCTGTTTTGAAATTTCTGAGTTTTGCATCAACCCAGATCCAGATATATGCAGATGCCATAC
 AGTGGATGGATCCAGACATATTCTTTGGTATATTCACACCAAGTATTATCTTTAATGTTGCCCTTCGACAT
 GGATATATACATGCTTCAAAGTTATTTTGGCAGATACTAGTAATTACAATTCCTGGATTCTGATTAAT
 TACACCTTAATACTTTGGTATCTGCAGTCTGTGAATAAATATCTTTGAAGACTGTCCCCTGGTTACTAT
 TTTCAAGCTGTTCTTATAAGTTCAAGTCAAGAGTGTGAACCAACCCAGCCACAAGGTCATGTACAGCTT
 GGTCGATATTTGTTGAAAGCTTCATTACTGGAATCGATTTTACAAAAGTGATTGATTGATGGCCAC
 CATCTTTGGTGTGATGTCAACCCATCACTCTCATCTTCTCAGTTTTATACCTCATCTTCTATGTTTGT
 GAACTAGTTGGAATGTCTGGAATATTTACTCTGGCCACCATAGGACTTTTTCTAAAATCTACAAGCTTTA
 AACCCAGGAGTTGAAGCATTCTGCTCGAATTTCTGGAAGTGCCTGTCTTTTATTGGTTTTCTATGGTGT
 CACTTTTCAATGGACTTCTAATCCCTGCACACATACTTACATATATCATTTTCTGATGATATTATTCA
 TTAATATCTACTTCACACTGATTGTTTTAAGACTTTTGGTCTTTCTGCTAATGAGCCCCATCTGTCTC
 GACTTGGTCACGGGTTCAAGTGGCGCTGGCGTTCATCATGGTCTGGAGTGAATGAAAGGAACACCGAA
 CATAAATATGGCGCTCCTGCTTGCCTACTCGGACATTTCTCTCGTTCTGAGAGGGAAAGATCTCAAATA
 CTATTTTCAATGGAGTGTCAAGTATGTGAATACCCTGATTGTCAATAGATTTATTTTGCCAATGGCAGTTA
 CTAACCTAGTCTTCGTGATGTCAATCAACAAAATATAAATCGTTTATTATACATTCCAACACTTTCA
 AGAGCTAACCAAATCTACAGCCATGGCACTCAAATTTGACAAAAGATCTTGCTAATGCTGACTGGAACATG
 GTTGACAATGCAATTATACTTCAAATCCATATGCAATGAACCAAGAAGAAATAACAGAGCATCAGAAGG



TGAAATGTCCAGATTGCAACAAGGAAATAGATGAGACCCTCAACATTGAAGCCATGGAGCTGACCAACAG
 ACGTCTCCTGTCAGCACAGATAGCGAGCTACCAACGACAGTACAGGAATGAGTTCTGTCCAGAGTGCA
 GTGCAGGTGTTGGTAGGCCAGCTGGAAGCTTTGGTGAGAAGAAGGGAGAATATATGAGTCTGAGAATA
 TAAAGAATTTTTAGAAAAGCAAAAACTCCTCTCCTTTCTTAGAAAATTACTACTCAACTGGGTGTATA
 TACTAAAAAGATAAAGGGTCCATCAAGATACATGTTTCTTCATGCATGCCATAGAATAGTCTTCACA
 AATGAATTTGAATATACTGGATACCTTGTGGTATTAATGAGCACATATCCTATGATAATCTGTTGGATTT
 CCCGACTAAAAGACATCTATGACAACGAGATAAAGTGTGCTAACTACTATTTTCTTGCCTCTATATTCT
 AGAGGCTCTACTTAAGGTGGCAGCAATGAGGAAGGAATTTTTTTCACACACCTGGCTCCTGTTTGAGCTG
 GGGATTACCTTAGTCGGCGTCTAGATATAAATACTTATCGAAAACAGACTCCATTAGTTACAATTTTGACT
 TAACTGAGACTGTGGTCTTCATGAACGTGATTCGACTCCTTCGTATACTGCGCATCTTGAAGCTTGAAC
 ACCAAAAGTCTGCAAAATCATAGACAAAAGGATGAGCCAGCAGATATCATTTTCGTTATTCTATACTGAAA
 GGCTATGTCCAAGGGGAAATGGATGACTGAATATAATTGATCAGATTGCAAGTTCCAAACAGACTAAAC
 AGATATTGTTAAAGCGGGTAATGAGGAATATGGAACATGCTATGAAAGAGCTAGGCTACTTAGAGTATGA
 CCATCCGAAATCGCTGCTACTATGAAAACCAAGGAGGAGATTAATGTCATGCTCAATATGGCCAGAGAA
 ATTGTCAAGGCTTTCAGGTCCAAAGGAATTATACACAAGGTGGAAGGCACTGAGATTAACAAGTTAATCA
 TGGCCAAAAGATCCAGGTGCTTGTATCTGACAGTCTGTTATCCAGCCATTTAATGTTGAAGAAGCCCGTG
 CAATATCCCATGGCTTAGTGAAGATCCTGAAGCCATAACCTTTATTTCAGGAAAAAGCAAAAAGTTGAACA
 TTTGACTGTGAAATAACATATTTGAAGAAGGTGATGAGCCAGAAGGAATCTATGTAATAATTTTCAGGCA
 TGGTTAAGCTTAAAAGGTCAAACACACCTGGAGATGGAAGAGATATCCGCAGAGTCAGAGATTAATAA
 TCATCCACTGCCCCACACAGAGTACCTGCTCAGCGGGGAGATAATAGGAGAGTTAACTGTCTGACTAAA
 GAACGGATGCAATATTCTGCCACCTGCAAACTGTTGTGGAGACATATTTTATCCCATTAGCCACTTGT
 ATGAAGGCTTTGAAAAAGATGTCCTAACATGAAACATAAAATGTGGCAAAAATCGGACTTGCCATTAC
 TGCCCAAAAAGATCCGAGAACACTTATCTTTTGGAGACTGGAACAAGCTGCAGTTGAAACTGTCAAT
 GCCTTCATAAGAGACATCCCAAGTCCATGAAAAGTACATCTATGACGAAACGGTAACCCACGTTGTCC
 TCATCCATGGATCTGCTGAGGACTGCCAGCTGCCAAAAATTTATAAGGCGCCTTTCCTAATTCCTGTGAC
 GTGCCATCAGATAACAAGGCATGGAAGACTTCACAAAAGTATGATTATTCAAACCTCAATTGCTGTAAGA
 AAATTCAGATGGAATGTAAGAAAGTACATCCACCTCGAAGAATTTTCGATGAAACAGATTCTGAAAGAG
 AATCTTTTGAACATTGGATGAAACCTCTGAAGAGGACAATGGTAAGAAAGAGAATCAAGAAAATGAGGA
 ATTGATAGAAGAGAATATTAACATCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_198106
- Insert Size:** 3528 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_198106.4](#), [NP_932774.3](#)

RefSeq Size: 3879 bp

RefSeq ORF: 3528 bp

Locus ID: 208169

UniProt ID: [Q6UJY2](#)

Cytogenetics: 16 B5

Gene Summary: Sperm-specific sodium/hydrogen exchanger involved in intracellular pH regulation of spermatozoa. Required for sperm motility and fertility. Involved in sperm cell hyperactivation, a step needed for sperm motility which is essential late in the preparation of sperm for fertilization. Required for the expression and bicarbonate regulation of the soluble adenylyl cyclase (sAC).[UniProtKB/Swiss-Prot Function]