

Product datasheet for **MC218862**

Slc9b2 (NM_178877) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc9b2 (NM_178877) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc9b2
Synonyms:	C80638; nha-oc; NHA2; nhaoc; NHE10; Nhedc2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC218862 representing NM_178877
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGATGAAGATAAGACAGCTGAATGTCAGCATTCAAAGCCACCTACGGGGATCACACACGAGGCTC
 CTCCACATCACGAACTACAGGAAGAGAGAGTTCATGAGCCTCAGAGGTACAGACAGAAGTGAACCGACAGA
 AGGCAGTAACCTGCTGACCAGCGGTGAAAAAAGCCACAGGACTACCAACAGAACCCTAATGGCCTGCAG
 AGTCTGAGGCGATTCTGGCCTGCCCTCCACGAGGCTGCCTGGCAAGAGTGATAACGAACGGTACCATGG
 TTGTTCTTCTGTGGGCCATGGTTTGGTCAGTTACCGGCCCTGAATGTCTTCTGGAGGAAATCTGTTTGG
 AATTATCATTCTGTTCTATTGTTCCATCACCGGAGGTAACCTTTTTGGACTCATTAAAGTTTCCAACATTG
 CCTCTCTGCCTCTTCTTGGCATGCTGCTAGCTGGGTTTCTTGGAGGAATATCCAGTCATCAATG
 ATAGCGTCCGGATCCAACACAAGTGGTCGTCATCTTTGAGAAGCATAGCCCTTTCTGTCATTCTGGTTCCG
 TGCTGGCCTTGGTCTAGATTCAAAGGCCCTGAGGAAGTGAAGGGTGTGTGTGTGCGACTGGCCATGGGT
 CCCTGCATCGTGGAGCGTGTGCTTCTGCGATTCTCTCACTTCTGATGGGGTTGCCATGGCAATGGG
 GGTTTCATCCTGGGTTTTGTCGTAGGTGCCGTGTCCCCAGCTGTCGTGGTGCCTCCATGCTCCTTTTGCA
 GGAAGGAGGCTACGGTGTGGAAAAGGTATCCCAACCTTACTCATGGCCCGCCGAGCTTCGATGACATC
 CTGGCCATCACTGGCTTCAACACGTGCTTAGGCGTGGCCTTTTCCACAGGATCTACAGTTTTTAAACATCT
 TCAGAGGCATCTGGAGGTGGTAATTGGTGTGGCAGCTGGATCTTTTCTGGGTTTTTATCCAGTACTT
 CCCGAGCAGGGACCAGGACAACCTCGTGTGGAAGCGAGCCTTTCTGGTTCTGGGTTTTGCTGTGCTCGT
 GTGTTACGAGTGTGATTTTAGCTTCCCGGGTCTGGAGGACTGCACGTTGGTCATGGCTTTCCTAG
 CAGGCATGAGGTGGACTGACAAGAAGTCAAGAGGTAGAAAAGGTCATTGCAGTTACCTGGGCTTTTCCA
 GCCTCTTCTTTTTGGCCTGATTGGAGCAGAGGTTTCCATTGTGTCTCTCAGAGCAGAAAACGGTTGGCCTT
 TGTGTTGCAACCCTCAGCATCGCAGTGCTTATACGAATTCTGACTACATTCTGATGGTGTGTTTCGCTG
 GCTTTAACATAAAGGAAAAGATATTTATTTCTTTTGCCTGGCTTCCAAAGGCCACGGTCCAGGCTGCCAT
 TGGCTCTGTGGCTCTGGACACGGCAAGATCCCACGGAGAGAAGCAGCTGGAAGACTATGGGATGGATGTG
 CTGACGGTGGCATTTTTGGCCATCCTCATTACAGCACCAATTGGAAGCCTACTGATTGGTTTCTGGGTC
 CCAGGGTTCTTCAAAAATCTGAACATCGAACCGAAGAGGAGGTTCAAGGAGAGACTTCTGCACACATTCA
 GAGGAAGCCTGAGGATTCATTACGGAAGC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_178877

Insert Size: 1644 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_178877.6](#), [NP_849208.4](#)

RefSeq Size: 2243 bp

RefSeq ORF: 1644 bp

Locus ID: 97086

UniProt ID: [Q5BKR2](#)

Cytogenetics: 3 G3

Gene Summary: Na(+)/H(+) antiporter that extrudes Na(+) or Li(+) in exchange for external protons across the membrane (PubMed:18508966, PubMed:17988971). Contributes to the regulation of intracellular pH, sodium homeostasis, and cell volume. Plays an important role for insulin secretion and clathrin-mediated endocytosis in beta-cells (PubMed:23720317). Involved in sperm motility and fertility (PubMed:27010853). It is controversial whether SLC9B2 plays a role in osteoclast differentiation (PubMed:17988971) or not (PubMed:20441802, PubMed:22985540).[UniProtKB/Swiss-Prot Function]