

Product datasheet for **MC219146**

Slc9a8 (NM_148929) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc9a8 (NM_148929) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc9a8
Synonyms:	1200006P13Rik; 6430709P13Rik; A1182282; NHE; NHE-8; NHE8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219146 representing NM_148929
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGGAGGAGTTCTCCAACAACCCATGAGACCTTCAACTTCACCCCTTACACCACCTTGGGTG
 TACCACGAAGCTGGTGCTGCCGACACCTGCCAAGCCTATCCTTCCGGTGACAGCGGAGAGCAGGCCCA
 GCAGGAGGAGCAGTCGAGCGGCATGACCATTTTCTTCCAGCCTCCTCGTCCTAGCCATCTGCATCCTCTG
 GTGCACCTGCTGATTCGGTACCGCTGCACTTTCTGCCTGAGAGCGTGGCTGTGGTTTCTCTAGGTATTC
 TCATGGGAGCAGTAATAAAAGTTATAGAGTTTAAAAAGCTGGCAAATTGGAAGGAGGAAGAAATGTTTCG
 CCCCACATGTTTTCTTCTCTTGTCTCCACCTATTATCTTTGAGTCAGGATACTACTGCACAAGGGG
 AACTTCTTTCAGAACATCGTTCCATCACTCTCTCGCTGTCTTTGGAACGGCAATCTCGGCTTTGTAG
 TAGGTGGAGGAATTTACTTTCTGGGTGAGGCTGATGTAATCTCTAAACTCAACATGACAGACAGTTTCGC
 ATTTGGCTCCCTGATATCTGCAGTCGACCCAGTCGCCACTATTGGGATTTCAACGCACTGCATGTGGAC
 CCTGTGCTCAACATGCTGGTGTGGAGAAAGCATTCTCAACGATGCAGTCTCCATCGTCCCTACCAACA
 CGGCTGAAGGTCTAACAAGAAAACATATGTCAGATGTCAGTGGGTGGCAAACGTTCTCACAGGCCCTTGG
 CTACTTCTCAAATGTTCTTTGGCTCCGACGACTTGGCACGCTGACTGGCTTGATTTTCAGCATTAGTG
 TTGAAGCATTGACCTGAGGAAAACGCCTTCCCTGGAGTTTGGCATGATGATCATTTTTGCTTACCTGC
 CATATGGGCTGGCAGAAGGAATCTCACTCTCAGGCATCATGGCGATCCTGTTTTCTGGCATCGTATGTC
 AACTATACACCATAACCTCTCCAGTCACCCAGATCCTCATGCAGCAGACTCTCCGAACTGTGGCC
 TTCCCTGTGTAACGTTGTGTTGCATTTCTTGGCCTCTCCATTTTTAGTTTCCCTCACAAGTTTGAAA
 TTTCTTTGTCATCTGGTGCATAGTGTGGTCTGTTTGGCAGAGCCGTCACATCTTCCCTCTGCTCCTA
 CCTGCTGAACCTTCTCCGAGATCACAATAACCCCAAGATGATGTTTCATCATGTGGTTCAGTGGTCTT
 CGAGGGGCCATCCCTATGCACTAAGCCTGCACCTGGGCTGGAGCCATGGAGAAGCGTCAGCTCATCG
 GCACCACCACCATCGTCATCGTCTCTTACCATCCTGCTGCTGGGCGGCAGCACCATGCCCTCATCCG
 CCTCGTGGACATCGAGGATGCCCGGGCTCGCCGAGGAGCAAGAAAGACGTCAACCTCAGCAAGACTGAG
 AAGATGGTAATGCCATCGAGTCAGAGCACCTGTGAGGCTCACTGAAGAAGAGTACGAAGCTCACTACA
 TCAGACAGCAGGACCTCAAAGGCTTCTGTGGCTGGATGCCAAGTACCTGAACCCCTTCTCACACGGCG
 GCTGACACAGGAGACCTCCACCATGGCCGATCCAGATGAAGAGCCTCACCATAAGTGGTATGAGGAG
 GTCGTCAGGACCGTCAGGCTCTGAGGATGATGAGCAGGAGTTGTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_148929
- Insert Size:** 1731 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_148929.3](#), [NP_683731.1](#)

RefSeq Size: 4553 bp

RefSeq ORF: 1731 bp

Locus ID: 77031

UniProt ID: [Q8R4D1](#)

Cytogenetics: 2 H3

Gene Summary: This gene encodes a member of the Na⁺/H⁺ exchanger (NHE) family of integral membrane transporter proteins. The encoded protein is expressed on the apical membrane of the intestinal epithelial cells and plays an important role in mucosal protection. Loss of the encoded protein in mice results in a decrease in the number of goblet and mucin-positive cells, disorganization of the mucin layer, and a decrease in mucosal pH in the colon. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2015]
Transcript Variant: This variant (1) encodes the longest isoform (a).