

Product datasheet for **RN202298**

Slc9a4 (NM_173098) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc9a4 (NM_173098) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc9a4
Synonyms:	Nhe4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>RN202298 representing NM_173098

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGGTCCTGCAATGTTGAGAGCTTTAGTTCTGGAAATGGTTGCTATTGCTGATGGTCCTTACATGTT
TGAAGCATCATCTTATGTTAATGAGTCCCTCCAGTCCCACTGGCCAGCAGACACCCGATGCTCGGTTGCG
TGCTTCCAGCTCAGACCCGATGAAAGGATATCTGTTTTGAATTGGATTATGACTATGTTCAAATCCCT
TATGAAGTCACCTCTGGATACTCTCGCATCTTGTCTAAGATAGGTTTTATCTTTACCATAGGTTGC
CGCACCTCATGCCAGAGAGCTGCCTCTCATCATCGTGGGAGCCTTGGTGGGCAGCATATTTTTGGCAC
CCACCACAAATCGCTCCGGTCATGGATTCAAGCATTTATTTCTCTACCTCTCCACCCATCGTGTG
GAGAGCGGCTACTTCATGCCACAGGCCCTTCTTGAACATTGGCTCCATCTGTGGTGGGCAGGCC
TGGGGGCCCTGATCAATGCTTTTGGCATTGGGCTCTCTCTACTTCATTTGTCAGATCAAGGCGTTTGG
CCTTGGTGACATCAACCTGCTACAGAATCTGCTATTTGGCAGCCTGATCTCGGCAGTGGACCCCGTGGCT
GTGCTGGCTGTTTTCGAGGAGGCGCGCTGAATGAGCAGCTTTACATGATGATCTTCGGGGAGGCCCTGC
TCAATGATGGAATCAGCGTGGTCTATACAACATACTAATCGCCTTCACTAAGATGCATAAATTTAGGA
CATAGAAGCGGTGGACATTTTGGCCGATGTGCCAGATTCTGTTATCGTGGGATGCGGGGAGTATTTTC
GGCATCATTTTGGATTCAATTCGCAATTTATCACAGTTTCACTCAGAACATCTCTGCGATCGAGCCTC
TCATCGTCTTATGTTGAGTATCTGTCTTACTTAGCAGCCGAGACGCTTTATCTCTCCGAATCCTGGC
CATCACAGCTTGTGAGTGACATGAAAAAGTACGTGGAAGAGAACGTGTCCAGACGTCGTACACGACC
ATCAAGTACTTCAAGATGCTGAGCAGCGTGAGCGAGACCCCTCATCTTCATCTTCATGGGCGTGTCCA
CCGTTGGGAAGAACCATGAGTGGAACTGGGCTTTCGTCTGCTTACCCTGGCCTTCTGCCAGATCTGGAG
AGCCATCAGCGTGTTCACCTCTTCTATGTCAGTAACCAAGTTTCGGACTTTCCTTCTCCATCAAGGAC
CAGCTCATAATTTCTACAGCGGTGTGAGAGGAGCAGGAAGTTTCTCCCTTGCCTTTTGTCTCTCTGA
CCCTTTTCCCTAGGAAGAAGTTGTTGTTACTGCAACTTTAGTAGTTACATACTTTACTGTATTTTCCA
GGGGATCACAATTGGCCATTGGTCAGGTACCTGGATGTCAGAAAGACCAATAAAAAAGAGTCCATCAAT
GAAGAGCTTCACATCCGTCTTATGGATCATCTGAAGGCTGGGATTGAAGATGTATGTGGCAGTGGAGTC
ACTACCAAGTGAGAGATAAGTTCAAGAAGTTTGACCACAGATATTTGCGGAAAATCTAATCCGGAGGAA
CCAGCCAAAGTCAAGCATTGTTTCTTTGTATAAGAAGCTGGAGATGAAACAGGCCATCGAGATGGCAGAG
ACTGGGCTACTGAGCTCTGTGGCTTCTCCACACCCTATCAGTCTGAGAGGATACAGGGAATCAAGCGAC
TTTCCCCGAAGACGTGGAATCCATGCGGGACATTCTGACGAGAAACATGTACCAAGTTCGGCAAAGAAC
TCTGTCTACAACAAATACAACCTCAAACCCCAAACAAAGTGAGAAAGCAGGCCAAAGAGATCCTGATCCGC
CGCCAGAACACCTTGAGGGAGAGCCTGCGGAAAGGCCAGAGTCTGCCCTGGGTAAAGCCGGCAGGCACCA
AGAATTCGATATCTCTCTTCCCTTACAGCAATCCTCAGCCAGCAAGGAGAGGGGCAAGGGCTGCTGA
ATCCACAGGTAACCCATGCTGTTGGCTGCTGCATTTCTCTCTGTGCAGGGCCATGGTGGAGAAGATTTGG
GGACCTGGGGGCCAAGAGACACAGCCAAGGCTATTATGTAGAACTTGAAT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_173098

Insert Size:

2154 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:	<u>NM_173098.1, NP_775121.1</u>
RefSeq Size:	3183 bp
RefSeq ORF:	2154 bp
Locus ID:	24785
UniProt ID:	<u>P26434</u>
Cytogenetics:	9q22
Gene Summary:	Involved in pH regulation to eliminate acids generated by active metabolism or to counter adverse environmental conditions. Major proton extruding system driven by the inward sodium ion chemical gradient. Plays an important role in signal transduction. May play a specialized role in the kidney in rectifying cell volume in response to extreme fluctuations of hyperosmolar-stimulated cell shrinkage. Is relatively amiloride and ethylisopropylamiloride (EIPA) insensitive. Can be activated under conditions of hyperosmolar-induced cell shrinkage in a sustained intracellular acidification-dependence manner. Activated by 4,4'-diisothiocyanostilbene-2,2'-disulfonic acid (DIDS) in a sustained intracellular acidification-dependence manner. Affects potassium/proton exchange as well as sodium/proton and lithium/proton exchange. In basolateral cell membrane, participates in homeostatic control of intracellular pH, and may play a role in proton extrusion in order to achieve transepithelial HCO₃(-) secretion. In apical cell membrane may be involved in mediating sodium absorption. Requires for normal levels of gastric acid secretion, secretory membrane development, parietal cell maturation and/or differentiation and at least secondarily for chief cell differentiation.[UniProtKB/Swiss-Prot Function]