

Product datasheet for **MC221727**

Slc9a4 (NM_177084) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc9a4 (NM_177084) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc9a4
Synonyms:	AW990558; D730009J23Rik; NHE4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221727 representing NM_177084
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTCCTGCAATGTTTATGGCTTTTCGTTTATGGAAGTGGTACTACTGCTGGCGGTCCTTACACGTT
 CCGAAGCAACATCGTATGTTAATGAGTCCCTCCAATCCCACTGCCAGCAGGCACCTGATGCTCGGTTTGC
 TGCTTCTAGCTCAGACCCCGATGAAGGGATATCTGTTTTGAACTGGATTATGACTATGTTCAAATCCCT
 TATGAAGTCAACCTCTGGATACTGCTCGCATCTTTGCCAAGATAGGTTTCCATCTTTACCACAGGCTGC
 CGCACCTCATGCCAGAGAGCTGCCTCCTCATCATCGTGGGAGCTCTGGTGGGCGGCATCATTTTTGGCAC
 CCACCACAAATCGCTCCGGTCATGGATTCAAGCATTACTTCTCTACCTTCTCCACCTATTGTGTTG
 GAAAGCGGCTACTTCATGCCACCAGGCCCTTCTTTGAGAATATTGGCTCCATCCTGTGGTGGCAGGCC
 TGGGAGCCCTGATCAATGCCTTTGGCATTGGGCTCTCTCTACTTCATCTGTGAGTCAAGGCCTTTGG
 CCTTGGTGACATCAACCTGCTACACAATCTGCTATTTGGCAGCCTCATCTCAGCGGTGACCCCGTGGCT
 GTGCTGGCTGTTTTGAGGAGGCAGTGTGAATGAACAGCTTTACATGATGATCTTCGGGGAGGCCCTGC
 TCAATGATGGAATCAGCGTGGTCTTATAACAATACTAATTGCCTTCACTAAGATGCACAAATTTGAGGA
 CATAGAAGCGGTGGACATTTTGGCTGGGTGCGCAGATTCTGTCATCGTGGGTGCGGGGAGTATTTTC
 GGCATCATATTTGGATTCATTTCCGCATTTATCACACGTTTCACTCAGAACATCTCTGCGATTGAGCCCC
 TCATCGTCTTCATGTTACGATATCTGTCTTACTTAGCAGCCGAGACGCTTTATCTCTCAGGAATCCTGGC
 CATCACAGCTTGGCAGTGACCATGAAAAAGTACGTGGAAGAGAAGCTGTCCAGACATCATACACGACC
 ATCAAGTACTTCATGAAGATGCTGAGCAGCGTGAAGTGAAGCCTGATCTTCATCTTCATGGGCGTGTCCA
 CCATTGGGAAGAACCATGAGTGGAACTGGGCTTTCATCTGCTTCACTCTGCTCTTCTGCCAGATCTGGAG
 AGCAATCAGCGTATTTACCCTTCTATGTCAGTAACCAAGTTTCGGACTTTCCTTCTCCATCAAGGAC
 CAGTTCATAAATTTCTACAGCGGTGTGAGAGGAGCAGGAAGCTTCTCCCTTGCCTTTTGCCTTCTGT
 CCCTTTTTCTAGGAAGAACTGTTTGTACGGCAACTTTAGTAGTTACATACTTTACTGTATTTTTTTCA
 GGGAAATCACAATTGGCCCACTGGTCAGGTATCTGGATGTCAGAAAGACCAATAAAAAAGAATCCATCAAC
 GAAGAGCTTACAGCCGCTTATGGATCATCTGAAGGCTGGGATTGAAGATGTGTGTGGGAGTGGAGTC
 ACTACCAAGTGAAGATAAAGTTCAAGAAGTTGACCATAGATATTTACGGAAAATCTAATCCGGAGGAA
 CCTGCCAAAATCAAGCATCGTTTCTTTGTATAAGAAGCTGGAGATGAAACAGGCCATTGAGATGGTAGAG
 ACTGGGATACTGAGCTCTGTGGCTTCTCCACACCCTATCAGTCTGAGAGGATACAGGGAATCAAGCGGC
 TTTCTCCTGAAGACGTGGAGTCCATGCGGGACATTCGACAAGAAGCATGTACCAAGTTCGACAAAAGAAC
 CCTATCTACAACAAATACAACCTCAAACCCCAAACAAGTGAGAAGCAAGCCAAAAGAGATTTCTGATCCGT
 CGCCAGAACACCTTGAGGGAGAGCATGCGGAAAGGCCAGAGTCTGCCCTGGGAAAGCCGGCAGGCCACCA
 AGAACTTTCGATATCTCTCCTTTCTTATAGCAATCCTCAGGCAGCAAGGAGAGAGGCAAGGGCTGCTGA
 ACCCACAGATGATGATGGCACTGATTCCAGGATTCAGCCCTTGTGTTTCCAGCATACTCAAGAGCAGGG
 TCCCTTCAGGAAAGGCGACAGACCCAGGCAGTATCCCTATGAAGAGGCTGCAGAGAGGAGAGAAGGCGC
 TTAGCTTCAGCTACCGAAGCAACACCAGCTGGGAGGACCAGGCCGGATGGCGCAGGATGGATGTCCTCCG
 GCCAAGCCGCTGTTCTATGCAGTAGCCGAGGAGTATGACTCTGGAGAGCAGCGGAGGAGGAGACCTCA
 GCAATCCTGTCCAGATGGACAGCTGAACACAGACACAGCACAGAGCACCACAAGTCCCACAGTCTTTTGC
 TCCATAGGAAATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_177084
Insert Size: 2394 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:	<ol style="list-style-type: none">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_177084.3 , NP_796058.1
RefSeq Size:	3822 bp
RefSeq ORF:	2394 bp
Locus ID:	110895
UniProt ID:	Q8BUE1
Cytogenetics:	1 19.51 cM
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 (By similarity). In basolateral cell membrane, participates in homeostatic control of intracellular pH, and may play a role in proton extrusion in order to achieve transepithelial HCO ₃ ⁽⁻⁾ 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]