

Product datasheet for **RN200479**

Slc9a2 (NM_012653) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc9a2 (NM_012653) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc9a2
Synonyms:	Nhe2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN200479 representing NM_012653
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTGGGCTTCTACTAGTGTTGATTATCTTCGGTGTGATGAGAAGTCTCCTCTGCAATGAAAACGG
 ATGTATTTTCTATACCTCCTGCCACCCATTGTTCTGGATGCTGGCTACTTCATGCCTACTCGACCTTT
 CTTTGAGAACTTGGGCACCATTTTCTGGTATGCTGTGGTAGGCACACTGTGGAATTCCATTGGCATTGGG
 CTGTCTTTGTTCCGCATCTGCCAGATTGAGGCGTTTGGCCTCAGCGACATCACCTTGCTCCAGAACCTGC
 TCTTCGGCAGCCTGATCTCAGCTGTGGACCCTGTGGCTGTGCTTGTCTTTGAGAACATTATGTCAA
 TGAACAGCTCTATATCCTGGTTTTTGGCGAGTCTCTGCTCAACGATGCAGTCACAGTGGTCTGTACAAC
 TTGTTCAAATCCTTCTGCCAGATGAAGACCATCCAGACCGTAGACGTGTTTGTGGCATCGTAACCTTCT
 TCGTAGTGGGATTGGCGGGGTGCTGATTGGTATCCTGCTGGGATTCATAGCAGCGTTACCACCCGTTT
 CACACACAACATCCGGGTCAATTGAGCCGCTCTTGTCTTCTGTACAGCTACTTGTCTACATCACTGCT
 GAAATGTTCCACCTTTCAGGCATCATGGCGATCAGCCGTGTGCCATGACGATGAACAAGATGTGGAAG
 AGAACGTGTCCAGAAGTCTACACGACCATCAAGTACTTCATGAAGATGCTGAGCAGCGTGAGTGAGAC
 CCTCATCTTCATCTTCATGGGCGTGTCCACCGTTGGGAAGAACCATGAGTGGAAGTGGGCTTTCGCTGCT
 TTCACCTGGCCTTCTGCCTGATCTGGCGAGCACTGGGTGTCTTGTCTGACTCAGGTGATTAATTGGT
 TCCGGACCATCCCACTGACCTTCAAGGACCAAGTTCATCATTGCCTATGGAGGGCTCCGCGGGGCCATCTG
 CTTTGCCTGGTGTCTCCTCCTGCTACTGTGTTTCCCGAAAGAAGCTGTTTCATCACAGTGGCATC
 GTCGTTATATTCTTCACTGTCTTCATCCTGGGAATAACCATCCGGCCACTGGTGGAAATTTCTTGATGTTA
 AGAGATCCAATAAGAAGCAGCAAGCTGTGAGTGAAGAGATCCACTGTGCGTTTTTGTGATCATGTGAAGAC
 TGGGATTGAAGATGTTTGTGGACACTGGGGTCACTTCTGGAGAGACAAGTTTAAGAAATTTGATGAC
 AAATACCTTCGGAAGCTTCTGATTTCGGGAAAACCAACCAAGTCTAGCATTGTGCTCTTATATAAAAGC
 TTGAAATAAAACATGCCATAGAGATGGCAGAGACAGGGATGATAAGCACTGTCCCTCATTTGCATCTCT
 CAACGACTGCCGTGAAGAGAAAAAAGGAAGCTCACGCCAGGAGAAATGGATGAAATTAGAGAGATATTG
 TCAAGGAATCTCTATCAAATCCGCCAGCGGACCTTGTCTACAACAGACACAACCTGACGGCAGACACAA
 GTGAGAGGCAAGCAAGGAGATCTTATTGCGCGACGGCAGCTTTCGGGAAAGCTTAGGAAGGACAA
 CAGCTTAAACCGCAGCGCAGGGCTTCTACTTCAACCTCCCGATATTTATCCTTACCTAAAAACACAAG
 CTTCCCGAGAAGTTGCAGAAGAAGAATAAGGTTTCAAATGCAGATGGTAATAGCAGCGACTCGGACATGG
 ATGGAACCACTGTACTCAATTTGCAGCCAGGGCCAGGCGCTTCTGCCAGATCAGTTCTCAAAGAAAGC
 CTCACCAGCCTACAAAATGGAATGGAAGAATGAGGTGGACGTGGGTTCTGCGCGAGCGCCCCCAGCGTC
 ACTCCAGCGCCTCGCAGTAAAGAGGGGGGCACCCAGACACCAGGGGTGCTGAGGCAGCCCCCTGCTCTCCA
 AAGACCAACGGTTTGGCCGGGGCAGGGAAGACAGTTTGAAGATGTTCCACCAAGCCCCCACCAG
 GTTGGTGCAGCAGCATCAGAACCCGGAATAGGAAAGGCCGCTTGGCAACGAAAGCCATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_012653

Insert Size: 2094 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_012653.2</u> , <u>NP_036785.2</u>
RefSeq Size:	3939 bp
RefSeq ORF:	2094 bp
Locus ID:	24783
UniProt ID:	<u>P48763</u>
Cytogenetics:	9q22
Gene Summary:	displays Na⁺/H⁺ exchange activity; may play a role in apical membrane Na⁽⁺⁾/H⁽⁺⁾ exchange in the distal convoluted tubule of the kidney [RGD, Feb 2006] Transcript Variant: This variant (2) lacks the 5' exon and has an alternate 5' segment, as compared to variant 1. The resulting isoform (2) has a shorter N-terminus, as compared to isoform 1.