

Product datasheet for **SC118230**

SLC9A2 (NM_003048) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC9A2 (NM_003048) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC9A2
Synonyms:	NHE2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_003048 edited
 CGCACCAGCCGGCATGGGCAGGCGGCCGGCGGAGGGCGGCTGAGGGCTGCTGAGGGT
 ACGCGCAGCGGCCTCTCGTCGCCCTGCACGTGCCTCGCCAGGCAGTGCGCCTGCTCGCAG
 CGAGGACCTAGCCCTCTGGTTGCAGAGACCCGGTGCCGCAGCAGCGGGCGGGTGGCTGTGC
 CTGCCCTGCCCTGCACGGGGCAGGGCGGAGCGGGCTGAGCAGCCCGGGCGCGATGCGTTG
 AGCGCTCGGAGGGCCAACCGCCGGTCCCCTTGGCGGCAACCGGCGCACCCATGGAACCA
 CTGGGCAACTGGAGGAGCCTGCGGGCGCCACTGCCTCCGATGCTGTTGCTGCTGCTCCTG
 CAGGTGGCGGGGCCGTGGGCGCCCTGGCGGAGACCTTGCTGAACGCGCCGAGGGCCATG
 GGCACCAGTTCAGCCCGCCTAGCCCTGCGAGCGTGGTGGCTCCCAGAACGACGCTGTTT
 GAGGAGAGCCGGCTGCCTGTGTTTACGCTGGATTACCCACAGTGCAGATCCCCTTCGAG
 ATCACCCTTTGGATCCTGCTGGCCTCCCTGGCCAAGATTGGCTTCCATCTGTATCACAAG
 TTGCCACAATAGTGCCTGAGAGCTGCCTTCTTATAATGGTTGGACTTCTACTAGGTGGG
 ATTATTTTTGGTGTGATGAGAAGTCTCCCCTGCAATGAAGACTGATGATTTTTCTTG
 TACCTCCTCCACCCATCGTGTGGATGCCGGCTATTTTCATGCCACTCGCCATTCTTT
 GAGAACATTGGCAGGATTTCTGGTATGCTGTGGTAGGGACACTTGAATTCCATTGGC
 ATTGGGGTGTCTTTGTTGGTATCTGCCAGATCGAAGCATTGGGCTCAGCGACATCACT
 TTGCTCCAGAACCTGCTCTTTGGCAGCTTAATCTCAGCTGTCGATCCTGTGGCTGTGCTT
 GCTGTCTTTGAGAACATTCACGTCAATGAGCAGCTCTACATCCTGGTCTTTGGAGAGTCC
 CTGCTGAATGATGCAGTAACAGTGGTCTGTACAACCTGTTCAAGTCGTTTTGCCAGATG
 AAAACCATTGAGACCATTGATGTGTTTGCAGGAATCGCCAACCTCTTTGTTGTGGGAATC
 GGTGGGGTGTGATTGGCATCTTCTGGGCTTTATAGCGGCATTTACTACTCGATTACCC
 CATAATATCCGAGTGCAGCCACTGTTGTTTTCTGTACAGTTATTTGTCCTACATC
 ACAGTCAAATGTTTACCTCTCAGGCATCATGGCAACTACTGCTTGTGCAATGACTATG
 AATAAGTACGTAGAAGAAAATGTATCTCAGAAAATCCTACACGACCATCAAGTACTTCATG
 AAGATGCTGAGCAGTGTAGCGAAACCTTGATCTTCATCTTCATGGGTGTGTCTACCGTG
 GGCAAGAACCACGAGTGGAACTGGGCCTTCGTCTGCTTACCCTGGCCTTCTGCCTCATG
 TGGCGAGCCCTGGGTGTTTTTGCCTGACTCAGGTCATTAATAGGTTCCGGACCATTCCT
 CTGACCTTTAAGGACCAGTTCATCATTGCCATGGAGGACTTCGAGGTGCCATCTGTTTT
 GCGTTAGTGTCTCCTTCTGCTGCTGTGTTTCTCGGAAAAAATTGTTATTACGGCT
 GCCATTGTTGTCATATTCTTACTGTCTTATTCTGGGAATAACTATTCGACCACTGGTG
 GAGTTTCTTGATGTCAAGAGTCCAATAAGAAACAACAAGCTGTCAGTGAAGAAATCTAT
 TGTGCGTTGTTTATCATGTGAAGACTGGAATTGAAGATGTTTGTGGACATTGGGGTCC
 AACTTTTGGAGAGACAAGTTAAGAAAGTTGATGATAAATATCTGCGGAAGCTTTTGATT
 CGGGAAAACCAACCAAAGTCAAGTATTGTATCTTTATATAAAAAGCTTGAATAAAAACAT
 GCCATTGAGATGGCAGAGACTGGGATGATAAGTACTGTCCCTACATTTGCATCTCTAAAT
 GATTGTCGTGAAGAAAAAATAAGGAAGGTACGTCCAGTAACTGATGAAATTCGAGAA
 CTCTTATCAAGAAATCTCTATCAAATCCGTCAGCGAACTTTATCTACAACAGACACAGT
 CTGACAGCCGACACAAGTGAAGACAAGCAAGGAGATTCTGATTCCCGGGCAGACACAGT
 TTGCGAGAAAAGCATTAGGAAGGACAGCAGCTTGAATCGAAGAACACAGGGCTTCCACTTCA
 ACCTCCCGATATTTATCCTTACCTAAAAATACGAAGCTTCCAGAAAAGCTACAAAAGAGG
 AGGACTATTTCTATTGCAGATGGCAATAGCAGCGACTCAGACGCAGATGCCGGGACCACC
 GTGCTCAATTTGCAGCCAGAGCCAGGCGCTTCTTCCAGAACAGTTCTCCAAGAAATCC
 CCCCAGTCTATAAAAATGGAATGGAAGAATGAGGTAGATGTTGATTCTGGCCGAGATATG
 CCCAGCACCCCCCAACCCCCACAGCAGAGAAAAGGGCACCCAGACGTCAGGCTTACTA
 CAGCAGCCCTTCTCTAAAGACCAGTCTGGCTCAGAGAGGGAAGACAGTTTGACTGAA
 GGCATCCCGCCCAAGCCGCCACCACGGCTGGTCTGGAGGGCATCGAACCTGGAAGCCGG
 AAAGCCGATTTGGGAGTGAAGAAGCTTAAAGAGAAGCAGCGAAAGCAGATCTGAGTGTCT
 GACCCAGGACAGCTGTGGTTTGTACTCTGAAACCTGATGCAACAGTGAATCCATGTAA
 AACTCTCTGTGCATCTAAATACTTCTGGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003048 unedited
 ATAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACCAGCCGGCATGGGCAGG
 CGGCCGGCGGGAGGGCGGCTGAGGGCTGCTGAGGGTACGCGCAGCGGCCTCTCGTCCG
 CCTGCACGTGCCCGCCAGGCAGTGCCTGCTCGCAGCAGGACCTAGCCCTCTGGTTG
 CAGAGACCCGGTGCCGCAGCAGCGGGGGTGGCTGTCGCTGCCCTGCCCTGCACGGGGCA
 GGGCGGAGCGGGCTGAGCAGCCCGGGCGCATGCGTTGAGCGCTCGGAGGGCCAACCGCC
 GGTCCCTTGGCGGCAACCGCGCGCACCCATGGAACCACTGGGCAACTGGAGGAGCCTGC
 GGGCGCCACTGCCTCCGATGCTGTTGCTGCTGCTCCTGCAGGTGGCGGGGCCGTGGGCG
 CCCTGGCGGAGACCTTGCTGAACGCGCCGAGGGCCATGGGCACCAGTTCCAGCCCGCCTA
 GCCCTGCGAGCGTGGTGGCTCCCGAACGACGCTGTTGAGGAGAGCCGGCTGCCTGTGT
 TTACGCTGGATTACCCACGTCAGATCCCTTCGAGATCACCTTTGGATCCTGCTGG
 CCTCCCTGGCCAAGATTGGCTTCCATCTGTATCACAAGTTGCCACAATAGTGCCTGAGA
 GCTGCCTCTTATAATGGTTGGACTTCTACTANGTGGGATTATTTTTGGTGTGATGAGA
 AGTCTCCCTGCAATGAAGACTGATGTATTTTTCTTGTACCTNCTCCACCCATCGTGC
 TGGATGCCGGCTATTTATGCCCCTCGCCATTCTTTGAGAACATTGGCAGGATTNTCT
 GGTATGCTGTGGTAGGGACACTNNTGAANTNCATTGGCATNNGGGGTGCTTGNTTGGT
 ATCTGCCAGATCGAAGCATTGNGCTCAGCGACATCACTTTGCTNCAGACCTGCTCTTGG
 CAGCTAATCTAGCTGTCGATCCTGTGCTGGCTGCTGCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003048 unedited
 NNCCGTACAATAAGGAACCGCGCCGCAANCTANGATCGAGTTTTTTTTTTTTTTTTTTTT
 TTCCCGACAAAGGTT
 CCCTTTAACCCCTTTTTAAAAAAAAAAGTCCGGGGGGCCCTTTGCCAAAAATTTGCAAAA
 TTAAGAAACGGGCTTTTAAACAAAAACCAATTGGGGCCGTCAA AAAAAGGCAAAACGGG
 CGGAACCCCGTCCGGGGTTGGCCCCCGTTTTTAGGAAAAACAAACCCCGCCCCCCCCAA
 AAAAAACAGTCCCCCCCCCAAAAGCGGACAAAACCGGAAAAAACCCCTTCCCAAAC
 TTTTTGGGGGCATATCCCAAAACCCAGGCTTTTAAAAGTTCAAACCTTTGAACCCATT
 TCTAGTTGGCCATGGACAAAACGGTCCCAACAGTCCCCCCCCCTTTACATAAAG
 TAAAAACCCCTTTTCTTTTTTGGGGGTTCAAACCAATTTGTTCCCGCCCCC
 CAAAACCTTTCAAAAATCCCCCGCCCCCTGGGACCTTTGGGGGACCAAGGGTTGTTGG
 GACAAACAAAACCTTTACAAGGGGCCCGCCCCCCCCCTACAAAAATTTAAATGGGG
 CCAATTTTAGATGGGAAAATATTTAGCAAACCCCAAAAAGGCCGGGGCCTCGGAT
 TTAAGAATTCAAAAGGAGGAAGTTTAGAAAAAAGCCAAGGTCAATTTTTTTTTTAGTG
 GCCGTTGGCCCTCCACCAACCAAAAAATTTAACCGGGAAAAATTAGAAATTAAGTTTT
 CCTTTACACAAGCCNCCAATTTGGGTGGGAGATTTCCGGAAGCCGATTTGGTCC
 CCGGCTAACAGAAAACAAAAACATTTTCGG

Restriction Sites:

NotI-NotI

ACCN:

NM_003048

Insert Size:

4700 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_003048.3 , NP_003039.2
RefSeq Size:	5446 bp
RefSeq ORF:	2439 bp
Locus ID:	6549
UniProt ID:	Q9UBY0
Cytogenetics:	2q12.1
Domains:	Na_H_Exchanger
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a member of the sodium-hydrogen exchanger (NHE) protein family. These proteins are involved in sodium-ion transport by exchanging intracellular hydrogen ions to external sodium ions and help in the regulation of cell pH and volume. The encoded protein is localized to the apical membrane and is involved in apical absorption of sodium. [provided by RefSeq, Jun 2016]