

## Product datasheet for **SC116146**

### SLC9A6 (NM\_006359) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC9A6 (NM_006359) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC9A6
Synonyms:	MRSA; NHE6
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_006359, the custom clone sequence may differ by one or more nucleotides

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ATGGCTCGGCGCGGCTGGCGGCGGGCACCCCTCCGCCGTGGCGTCCGCGAGCAGTCCCCGAGCCCGCAGGC
TCATGCGGCCCTTTGGTTGCTCCTCGCAGTGGGCGTCTTTGACTGGGCAGGGGCTTCGGACGGCGGCGG
CGGAGAGGCTAGAGCCATGGACGAGGAGATCGTGTCCGAGAAGCAAGCCGAGGAGAGCCACCGGCAGGAC
AGCGCCAACCTGCTCATCTTCATCTGCTGCTCACCCCTACCATTCTCACAATCTGGCTCTTCAAGCACC
GCCGGGCCCGCTTCTGCACGAAACCGGCTGGCTATGATTTATGGTCTTTTGGTGGCCTTGTGCTTCG
GTATGGCATTTCATGTTCCGAGTGATGTAATAATGTGACCCTGAGCTGTGAAGTGCAGTCAAGTCCAAC
ACCTTACTGGTTACTTTTATCCAGAAGTATTTTTCAACATATTACTTCTCCTATCATATTTTATGCAG
GTTATAGCCTGAAAAGGAGACATTTTTTCGAAATCTTGGGTCTATCCTAGCATAACGCTTTTCTTGGAA
AGCAATTTCTGTTTCGTTATTGGGTCAATAATGTATGGCTGTGAACGCTGATGAAGTAAACGGGACAA
CTTGCAGGAGATTTTACTTTACAGATTGCCTACTGTTTGGTCCATTGTATCAGCAACTGATCCAGTGA
CTGTTCTTGCTATATTCCACGAGCTTCAAGTTGATGTTGAACTCTATGCACCTCTTTTTGGTGAAGTGT
CCTCAATGATGCTGTTGCCATAGTGTGCTCCTCAATAGTGGCATAACCAGCCAGCTGGAGACAACAGT
CACACCTTTGATGTCACAGCGATGTTCAAGTCTATTGGGATCTTCTTGGAACTTTCAGTGGATCTTTTG
CAATGGGTGCTGCTACTGGAGTGGTGACAGCTTATGACAAAGTTCACCAAATACGGGAGTTCAGTT
GTTGGAGACAGGCCTGTTCTTCTTGATGTCCTGGAGTACCTTCTCTTGGCTGAAGCATGGGGCTTCA
GGTGTAGTTGCAGTATTGTTTGGTGCATCACACAAGCACATTATACGTATAATAATTTGTCACCGGAGT
CTCAGCATAGAATAAACAGTTGTTTGGCTTCTCAATTTCTTGGCAGAGAATTTTCATCTTCTCTACAT
GGGGCTGACACTGTTACCTTCCAGAACCATGCTTTAAACCAACATTTGTAGTAGGAGCATTGTTGCT
ATTTTCTTGGGAAGAGCTGCCAATATTTACCCCTTGCCTTACTTAAATTTGGGTAGAAGAAAGTAA
TTGGATCAAATTTTCAACACATGATGTTTGGTGGCCTTCGTGGTGAATGGCATTGGCCTTGGCCAT
TCGAGATACTGCCACTTATGCACGGCAAATGATGTTTCCAGCACCACGCTTCTGATTGTTTTTACCCTG
TGGGTATTTGGTGGTGGCACCCTGCAATGCTGTCATGCTTGCATATCAGGGTGGTGGTATTGATTGAGC
AAGAACACTTGGGTGTTCTGAAATGAAAGGAGAATAACAAAGCAGAGAGTGTGGCTTTTCCGGAT
GTGGTACAACCTTGTATCAACTATCTGAAGCCTCTGCTGACCCACAGCGGGCCTCCGCTGACAACAACA
CTCCCTGCCTGCTGTGGACCCATCGCCAGGTGCCTCACCAGCCCCAGGCTTACGAAAACCAGGAACAGT
TGAAAGATGATGATTCTGATCTTATTCTCAATGATGGTGACATCAGTTTGACATATGGAGATTCTACTGT
GAACACTGAACCGCCACATCCAGCGCCCCAAGGAGATTTATGGGAAACAGTTCTGAAGATGCCTTGGAT
CGGGAGCTTGCAATTTGGGACCATGAACTGGTCATTTCGAGGAACACGCTGGTCTTCCAATGGATGATT
CTGAACCCCCGCTAAATTTGTTAGATAATACGAGACATGGTCCAGCCTAA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006359 unedited

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GCATTTTGTATACGACTCCTATAGGCGGCCGGAATTCGGCAGCAGGGCGGGGGAGACA
TGGCTCGGCGCGGCTGGCGGCGGGCACCCCTCCGCCGTGGCGTCCGCGAGCAGTCCCCGAG
CCCGCAGGCTCATGCGGCCCTTTGGTTGCTCCTCGCAGTGGGCGTCTTTGACTGGGCAG
GGGCTTCGGACGGCGGGCGGAGAGGCTAGAGCCATGGACGAGGAGATCGTGTCCGAGA
AGCAAGCCGAGGAGAGCCACCGGACAGGACAGCGCAACCTGCTCATCTTCATCCTGCTGC
TCACCCTCACCATTCTCACAATCTGGCTTTCAGCACCAGCCGGGCCCGCTTCTGCACG
AAACCGGCTGGCTATGATTTATGGTCTTTTGGTGGCCTTGTGCTTCGGTATGGCATT
ATGTTCCGAGTGATGTAATAATGTGACCCTGAGCTGTGAAGTGCAGTCAAGTCCAAC
CCTTACTGGTAAATGTTAGTGGAAAATTTATGAGTATATGCTGAAAGGAGAGATTAGTT
CACATGAACTCAATAATGTTCAAGATAATGAAATGCTTAGAAAGTTACTTTTATGCCAG
AAGTATTTTTCAACATATTACTTCTCCTATCATATTTATGCAGTTATAGCCTGGAAA
GGAGACATTCTTTTCGAAATCTGGGTCTATCCTAGCATAACGCTTTTCTTGGAAACGCAAT
TTCTTGTTTCTGTTATTGCGTCACTAATGTATGGCTGTGAACGCTGATGAAAGTAAACGG
ACAACCTGCCAGAGAATTTACTTTACAGATTGCCTACTGGTGGTGGCCTTGTATCAGC
AACTGATCCAGNACTGGTTTTGCTTTATTCACGAGCTTCAGNTGATGTTGAACTCTATG
CCCTCCCTTTTGTGAAAGGTGCCCAATGATGCTGTTGCCACTAAGC
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_006359 unedited ACTTTGGACCGCGGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTTGGGTATTTG CAAGGCTATAACTTTTTTAATGACAGATTTTCCTAAAAGAAACCCTATAACATCTGTCC AAGTACTCCAGGAGAAAAACAAAAATACATAAAGATTAAGTCTATTACTTTAACAGCA CATTGCCAAACACGGACAACCTAGGATAAATGCCAAGAAACCTTAAAAATAACTTTAAAA GATGCAACGTTCAAGCCATTCAAACGCGTAGGTTCCACAACAACAGGAAAAACAAGTCCA AGAGCAGTTCTACTTGTGCATGATGGTAACTCAGACTGTACTTCATCAAAGTTCATTCAG GTGTTTCATAGGCGTCTGAGCAGAGTTTGTCTTCTTCCCTTGCTTGAGATGTGTACAC AGATTAGAGGAGAGGAAAGTCTTCCAGATGCTGATGTAAGCACAGCAGGCTTGGTTCCCC TTGATAAAGTATGAAGGCAGATTTAGTTGACTCAAGCTTTATCAGTTTCCCTAGTGAAAA GTCTTATGCATGCTGAAATAGACGAGTTACTGAATNTGTCATGCGAAGTATTTACATAAA GTGAGGTCAGTAACCCGACAGAATAAAAAAGGTAGTTGTAATATTGTATAACCTTTTA CACTTGAATAACTGTGGGAAGTGACTGACACTGGACGTCACTCCTCAACATACTTAACAAG AATTTTACTGCGTGAAGAGCCACATCATGTAATAACACGTATGGGAGGGATCCTGCATA CAGGAAAGTCGCTCCACTACATACAATGGCTTGCCAACAGTCAGCTGCCGAAGGGTACA CATTAGATNCCCTAATCAAGGATGTTGCATACCAGAAGATGCTTTCGAATAAGTACTGG TTGGTC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006359
<b>Insert Size:</b>	4260 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_006359.1</a></u> , <u><a href="#">NP_006350.1</a></u>
<b>RefSeq Size:</b>	4452 bp
<b>RefSeq ORF:</b>	2010 bp
<b>Locus ID:</b>	10479
<b>UniProt ID:</b>	<u><a href="#">Q92581</a></u>
<b>Cytogenetics:</b>	Xq26.3
<b>Domains:</b>	Na_H_Exchanger

<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cardiac muscle contraction
<b>Gene Summary:</b>	<p>This gene encodes a sodium-hydrogen exchanger that is a member of the solute carrier family 9. The encoded protein localizes to early and recycling endosomes and may be involved in regulating endosomal pH and volume. Defects in this gene are associated with X-linked syndromic cognitive disability, Christianson type. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2010]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform b), compared to isoform a.</p>