

Product datasheet for **SC309566**

SLC8A3 (NM_182932) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC8A3 (NM_182932) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC8A3
Synonyms:	NCX3
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_182932, the custom clone sequence may differ by one or more nucleotides

```

ATGGCGTGGTTAAGGTTGCAGCCTCTCACCTCTGCCTTCTCCATTTTGGGCTGGTTACC
TTTGTGCTCTTCTGAATGGTCTTCGAGCAGAGGCTGGTGGCTCAGGGGACGTGCCAAGC
ACAGGGCAGAACAATGAGTCCTGTTTCAGGGTCATCGGACTGCAAGGAGGGTGTATCCTG
CCAATCTGGTACCCGGAGAACCCTTCCCTTGGGGACAAGATTGCCAGGGTCATTGTCTAT
TTTGTGGCCCTGATATACATGTTCCCTTGGGGTGTCCATCATTGCTGACCGCTTCATGGCA
TCTATTGAAGTCATCACCTCTCAAGAGAGGGAGGTGACAATTAAGAAACCAATGGAGAA
ACCAGCACAACTACTTTCGGGTCTGGAATGAAACTGTCTCCAACCTGACCCCTTATGGCC
CTGGGTTCTCTGCTCCTGAGATACTCCTCTCTTAATTGAGGTGTGGTTCATGGGTTT
ATTGCTGGTGTCTGGGACCTTCTACCATTGTAGGGAGTGCAGCCTTCAACATGTTTCATC
ATCATTGGCATCTGTGTCTACGTGATCCCAGACGGAGAGACTCGCAAGATCAAGCATCTA
CGAGTCTTCTTCATACCCGCTGCTTGGAGTATCTTTCCTACATCTGGCTCTATATGATT
CTGGCAGTCTTCTCCCTGGTGTGGTCCAGGTTTGGGAAGGCTCCTCACTCTCTTCTTC
TTTCCAGTGTGTCTCTTGGCTGGGTGGCAGATAAACGACTGCTCTTCTACAATAC
ATGCACAAAAAGTACCGCACAGCAAACACCGAGGAATTATCATAGAGACAGAGGGTGAC
CACCTAAGGGCATTGAGATGGATGGGAAAATGATGAATTCCTATTTCTAGATGGGAAC
CTGGTGCCCTGGAAGGGAAGGAAGTGGATGAGTCCCGCAGAGAGATGATCCGGATTCTC
AAGGATCTGAAGCAAAAACCCAGAGAAGGACTTAGATCAGCTGGTGGAGATGGCCAAT
TACTATGCTCTTCCCACCAACAGAAGACCGTGCCTTCTACCGTATCCAAGCCACTCGT
ATGATGACTGGTGCAGGCAATATCCTGAAGAAACATGCAGCAGAACAAGCCAAGAAGGCC
TCCAGCATGAGCGAGGTGCACACCGATGAGCCTGAGGACTTTATTTCCAAGGTCTTCTTT
GACCCATGTTCTTACCAGTGCCTGGAGAAGTGTGGGCTGTACTCCTGACAGTGGTGGAG
AAAGGGGAGACATGTCAAAGACCATGTATGTGGACTACAAAACAGAGGATGGTTCTGCC
AATGCAGGGGCTGACTATGAGTTCACAGAGGGCACGGTGGTTCTGAAGCCAGGAGAGACC
CAGAAGGAGTTCTCCGTGGGCATAATTGATGACGACATTTTTGAGGAGGATGAACACTTC
TTTGTAAGGTTGAGCAATGTCCGCATAGAGGAGGAGCAGCCAGAGGAGGGGATGCCTCCA
GCAATATTCAACAGTCTTCCCTTGCCTCGGGCTGTCTAGCCTCCCTTGTGTGGCCACA
GTTACCATCTGGATGATGACCATGCAGGCATCTTCACTTTTGAATGTGATACTATTTCAT
GTCAGTGAGAGTATTGGTGTATGGAGGTCAAGGTTCTGCGGACATCAGGTGCCCGGGT
ACAGTCATCGTCCCTTTAGGACAGTAGAAGGGACAGCCAAGGGTGGCGGTGAGGACTTT
GAAGACACATATGGGGAGTTGGAATTAAGAATGATGAAACTGTGAAAACCATAAAGGTT
AAAATAGTAGATGAGGAGGAATACGAAAGGCAAGAGAATTTCTTATTGCCCTTGGTGAA
CCGAAATGGATGGAACGTGGAATATCAGATGTGACAGACAGGAAGCTGACTATGGAAGAA
GAGGAGGCCAAGAGGATAGCAGAGATGGGAAAGCCAGTATTGGGTGAACACCCCAACTA
GAAGTCATCATTGAAGAGTCCTATGAGTTCAGACTACGGTGGACAACTGATCAAGAAG
ACAAACCTGGCCTTGGTTGTGGGGACCCATTCTGGAGGGACAGTTCATGGAGGCCATC
ACCGTCAGTGCAGCAGGGGATGAGGATGAGGATGAATCCGGGGAGGAGAGGCTGCCCTCC
TGCTTTGACTACGTGATGCACTTCTGACTGTCTTCTGGAAGGTGCTGTTTGCCTGTGTG
CCCCCACAGAGTACTGCCACGGCTGGGCTGCTTCGCCGTCTCCATCCTCATATTGGC
ATGCTCACCGCCATCATTGGGGACCTGGCCTCGCACTTCGGCTGCACCATTGGTCTCAA
GATTTCAGTCACAGCTGTTGTTTTCGTGGCATTGGCACCTCTGTCCAGATACGTTTGCC
AGCAAAGCTGCTGCCCTCAGGATGTATATGCAGACGCCCTCATTGGCAACGTGACGGGC
AGCAACGCCGTCATGTCTTCTGGGCATCGGCCCTGGCTGGTCCGTGGCCGCCATCTAC
TGGGCTCTGCAGGGACAGGAGTTCACGTGTGGCCGGCACACTGGCCTTCTCCGTCACC
CTCTTACCATCTTTCATTTGTCTGCATCAGCGTGTCTTGTACCGAAGGCGGGCCGAC
CTGGGAGGGGAGCTTGGTGGCCCCGTGGCTGCAAGCTCGCCACAACATGGCTCTTTGTG
AGCCTGTGGCTCCTCTACATACTTTTCCACACTAGAGGCTATTGCTACATCAAGGGG
TTCTAA

```

Restriction Sites: Please inquire

ACCN:	NM_182932
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_182932.1</u> , <u>NP_891977.1</u>
RefSeq Size:	5250 bp
RefSeq ORF:	2766 bp
Locus ID:	6547
UniProt ID:	<u>P57103</u>
Cytogenetics:	14q24.2
Protein Families:	Transmembrane
Protein Pathways:	Calcium signaling pathway
Gene Summary:	<p>This gene encodes a member of the sodium/calcium exchanger integral membrane protein family. Na⁺/Ca²⁺ exchange proteins are involved in maintaining Ca²⁺ homeostasis in a wide variety of cell types. The protein is regulated by intracellular calcium ions and is found in both the plasma membrane and intracellular organellar membranes, where exchange of Na⁺ for Ca²⁺ occurs in an electrogenic manner. Alternative splicing has been observed for this gene and multiple variants have been described. [provided by RefSeq, Aug 2013]</p> <p>Transcript Variant: This variant (d, also known as NCX3.2), lacks an alternate in-frame exon in the mid coding region, compared to variant c. The encoded isoform (D) is shorter than isoform C.</p>