

## Product datasheet for **SC120250**

### SLC8A3 (NM\_058240) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC8A3 (NM_058240) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC8A3
Synonyms:	NCX3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_058240, the custom clone sequence may differ by one or more nucleotides

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ATGGCGTGGTTAAGGTTGCAGCCTCTCACCTCTGCCTTCTCCATTTTGGGCTGGTTACCTTTGTGCTCT
TCCTGAATGGTCTTCGAGCAGAGGCTGGTGGCTCAGGGGACGTGCCAAGCACAGGGCAGAACAATGAGTC
CTGTTTCAGGGTCATCGGACTGCAAGGAGGGTGTATCCTGCCAATCTGGTACCCGGAGAACCCTTCCCTT
GGGGACAAGATTGCCAGGGTCATTGTCTATTTTGTGGCCCTGATATACATGTTCTTGGGGTGTCCATCA
TTGCTGACCGCTTCATGGCATCTATTGAAGTCATCACCTCTCAAGAGAGGGAGGTGACAATTAAGAAACC
CAATGGAGAAACCAGCACAACCACTATTTCGGGTCTGGAATGAAACTGTCTCCAACCTGACCTTATGGCC
CTGGGTTCTCTGCTCCTGAGATACTCCTCTTTAATTGAGGTGTGGTTCATGGGTTTATTGCTGGTG
ATCTGGGACCTTCTACCATTGTAGGGAGTGCAGCCTTCAACATGTTTCATCATCATTGGCATCTGTGTCTA
CGTGATCCAGACGGAGAGACTCGAAGATCAAGCATCTACGAGTCTTCTTCATCACCGCTGCTTGGAGT
ATCTTTGCCTACATCTGGCTCTATATGATTCTGGCAGTCTTCTCCCTGGTGTGGTCCAGGTTTGGGAAG
GCCTCCTCACTCTTTCTTTCCAGTGTGTCTTCTGGCCTGGGTGGCAGATAAACGACTGCTCTT
CTACAAATACATGCACAAAAAGTACCGCACAGACAAACCCGAGGAATTATCATAGAGACAGAGGGTGAC
CACCTAAGGGCATTGAGATGGATGGGAAAATGATGAATTCCTATTTTCTAGATGGGAACCTGGTGCCCC
TGGAAAGGAAGGAAGTGGATGAGTCCCGCAGAGAGATGATCCGGATTCTCAAGGATCTGAAGCAAAAACA
CCCAGAGAAGGACTTAGATCAGCTGGTGGAGATGGCCAATTACTATGCTCTTCCACCAACAGAAGAGC
CGTGCCTTCTACCGTATCCAAGCCACTCGTATGATGACTGGTGCAGGCAATATCTGAAGAAACATGCAG
CAGAACAAGCCAAGAAGGCCCTCCAGCATGAGCGAGGTGCACACCGATGAGCCTGAGGACTTTATTTCCAA
GGTCTTCTTTGACCCATGTTCTTACCAGTGCCTGGAGAAGTGTGGGCTGTACTCCTCAGTGGTGAGG
AAAGGGGAGACATGTCAAAGCCATGTATGTGGACTACAAAACAGAGGATGGTTCTGCCAATGCCAGTGG
CTGACTATGAGTTCACAGAGGGCACGGTGGTCTGAAGCCAGGAGAGACCCAGAAGGAGTTCTCCGTGGG
CATAATTGATGACGACATTTTTGAGGAGGATGAACACTTCTTTGTAAGGTTGAGCAATGTCCGCATAGAG
GAGGAGCAGCCAGAGGAGGGGATGCCTCCAGCAATATTCAACAGTCTTCCCTTGCCTCGGGCTGTCTAG
CCTCCCTTGTGTGGCCACAGTTACCATTGGATGATGACCATGCAGGCATCTTCACTTTTGAATGTGA
TACTATTCATGTCAGTGAGAGTATTGGTGTATGGAGGTCAAGGTTCTGCGGACATCAGGTGCCCGGGT
ACAGTCATCGTCCCTTTAGGACAGTGAAGGGACAGCCAAGGGTGGCGGTGAGGACTTTGAAGACACAT
ATGGGGAGTTGGAATTAAGAATGATGAAACTGTGAAAACCATAAGGGTTAAAATAGTAGATGAGGAGGA
ATACGAAAGGCAAGAGAATTTCTTATTGCCCTTGGTGAACCGAAATGGATGGAACGTGGAATATCAGCG
CTCCTGTTATCTCCAGACAGGAAGCTGACTATGGAAGAAGAGGAGGCCAAGAGGATAGCAGAGATGGGAA
AGCCAGTATTGGGTGAACACCCCAAACTAGAAGTCATCATTGAAGAGTCTATGAGTTCAAGACTACGGT
GGCAAACTGATCAAGAAGACAAACCTGGCCTTGGTTGTGGGGACCCATTCTGGAGGGACCAGTTCATG
GAGGCCATCACCGTCAGTGCAGCAGGGGATGAGGATGAGGATGAATCCGGGGAGGAGAGGCTGCCCTCCT
GCTTTGACTACGTCATGCACTTCTGACTGTCTTCTGGAAGGTGCTGTTTGCCTGTGTGCCCCCACAGA
GTACTGCCACGGCTGGCCTGCTTCGCCGTCTCCATCCTCATCATTGGCATGCTCACCGCATCATTGGG
GACCTGGCCTCGCACTTCGGCTGCACCATTGGTCTCAAAGATTCAGTACAGCTGTTGTTTTCGTGGCAT
TTGGCACCTCTGTCCCAGATACGTTTCCAGCAAAGCTGCTGCCCTCCAGGATGTATATGCAGACGCCTC
CATTGGCAACGTGACGGGCAGCAACGCCGTCAATGTCTTCTGGCATCGGCCTGGCCTGGTCCGTGGCC
GCCATCTACTGGCTCTGCAGGGACAGGAGTCCACGTGTGCGCCGGCACACTGGCCTTCTCCGTACCC
TCTTACCATCTTTGCATTTGTCTGCATCAGCGTCTTGTACCGAAGGCGGCCACCTGGGAGGGGA
GCTTGGTGGCCCCGTGGCTGCAAGCTCGCCACAACATGGCTCTTTGTGAGCCTGTGGCTCCTCTACATA
CTCTTGGCACACTAGAGGCCTATTGCTACATCAAGGGTTCTAA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_058240 unedited  
 GTCACATTTGTATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGGCTGCAATAGAA  
 GCCAGTGGCTAAGTCTCGTGTATGGCGTGGTTAAGGTTGCAGCCTCTCACCTCTGCCTTC  
 CTCCATTTTGGGCTGGTTACCTTTGTGCTCTTCTGAATGGTCTTCGAGCAGAGGCTGGT  
 GGCTCAGGGGACGTGCCAAGCACAGGGCAGAACAATGAGTCTGTTCAGGGTCATCGGAC  
 TGCAAGGAGGGTGCATCCTGCCAATCTGGTACCCGGAGAACCCTTCCCTTGGGGACAAG  
 ATTGCCAGGGTCATTGTCTATTTTGTGGCCCTGATATACATGTTTCTTGGGGTGTCCATC  
 ATTGCTGACCGCTTCATGGCATCTATTGAAGTCATCACCTCTCAAGAGAGGGAGGTGACA  
 ATTAAGAAACCCAATGGAGAAACAGCACAACCACTATTCGGGTCTGGAATGAACTGTC  
 TCCAACCTGACCCTTATGGCCCTGGGTTCTCTGCTCCTGAGATACTCCTCTCTTTAATT  
 GAGGTGTGTGGTCATGGGTTTATTGCTGGTGATCTGGGACCTTCTACCATTGTAGGGAGT  
 GCAGCCTTCAACATGTTTCATCATCATTGGCATCTGTGTCTACGTGATCCCAGACGGAGAG  
 ACTCGAAGATCAAGCATCTACGAGTCTTCTTCATCACCGCTGCTGGAGTATCTTTGCC  
 TACATCTGGCTCTATATGATTCTGGCAGTCTTCTNCCCTGGTGTGGTCCANGTTTTGGAA  
 GGCTNCTCACTCTCTTCTTTTTCAGTGTGTNCCCTTGGCCCTGGTGGCAGATAAC  
 GACTGCTCTTCTACAATACATGCACAAAAAGTACCGCACAGACAACCCCGAGAATTATC  
 TAGAGACAAAGGTGACCACCTAAGGCATTGANAGGATGGAAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_058240 unedited  
 AAATCTTGNC CGCGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTGTATGTAGA  
 GAGATATAGTATAGCTTTTATTTTTTTTTTTGAACCAACCAACATTTCCACTGGCAACTG  
 TCAACATAGCTTATGACATGAGCACTGTTTCTTTTTTAATTATTTTTTTCTTAAAAAATG  
 TGTTTAAATTAACAGGTGTTTTTAATTTCTTCCCCCCCCCTTAGAAAATGTATTTA  
 TGCAATGCAGAAAGCCTAAAGATCCGTGGGCAGTTTCGTGATGACATCTTATGTCTGTT  
 TATTTGTGTGTTTGTGTGCGTGTTTTAAAGCCAGGTCCTTCCCACATTGTTGAGAAAAG  
 GTCTGTAGGGCACGGAGATCTCTTTCTCCAAAAACCCAGGCTCCAAGGGATTATGACAAC  
 TAAGATTCCTCTTACTGGAGCAAGAACTACCCCATAGGCTGGAAAAATAGCTTCATGAAG  
 TTTAAGAACAAGCAGGAACATGGGAGAAATGAGGAATTCAGTTCCTATCTTGAAAAAT  
 GCTTTTCATATGTGACCTGAGGGACCAGGAGAGGTGAAGGGAGCCCTGTTCTCTTATAA  
 AATCTCTAAGTTTTTACACCATTCAAGAAATATAGTCAGCCCTCTTTGTATAGACATT  
 AGGAAGCAAGAGCGTGGTGAAGCTGACATTTCTCAGGCACATTGACATTTAAAATACANA  
 CTTTTCTCTTAAAGATCTCACTGTTGGACATCTTCTCTTTCTGCCTCAGTACAAAGC  
 CAAAGATAATCAAGAGGCTGTATCCCTTTTTGTTCTTCAGTTAGCCCTTGTGCTGNAC  
 ACCATTCTATTTTTGTCCATCTTCTATTGGCCGGTCTTCTGCAGAAGTATCACAAG  
 TTGACACTGACCCACCAGACCCAGATTGGAAAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_058240

**Insert Size:**

4650 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).

<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>	<a href="#">NM_058240.2</a> , <a href="#">NP_489479.1</a>
<b>RefSeq Size:</b>	5259 bp
<b>RefSeq ORF:</b>	2775 bp
<b>Locus ID:</b>	6547
<b>UniProt ID:</b>	<a href="#">P57103</a>
<b>Cytogenetics:</b>	14q24.2
<b>Domains:</b>	Calx-beta, Na_Ca_Ex
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway
<b>Gene Summary:</b>	<p>This gene encodes a member of the sodium/calcium exchanger integral membrane protein family. Na<sup>+</sup>/Ca<sup>2+</sup> exchange proteins are involved in maintaining Ca<sup>2+</sup> 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<sup>+</sup> for Ca<sup>2+</sup> 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 (b) uses an alternate in-frame splice site in the mid coding region, compared to variant c. The encoded isoform (B) is shorter than isoform C.</p>