

Product datasheet for **SC325736**

SLC8A3 (NM_001130417) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC8A3 (NM_001130417) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC8A3
Synonyms:	NCX3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325736 representing NM_001130417. Blue =Insert sequence Red =Cloning site Green =Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAACGTGGAATATCAGATGTGACAGACAGGAAGCTGACTATGGAAGAAGAGGAGGCCAAGAGGATA
GCAGAGATGGGAAAGCCAGTATTGGGTGAACACCCAACTAGAAGTCATCATTGAAGAGTCCTATGAG
TTCAAGACTACGGTGGACAACTGATCAAGAAGACAACTGGCCTTGTTGTGGGGACCCATTCCTGG
AGGGACCAGTTCATGGAGGCCATCACCGTCAGTGCAGCAGGGGATGAGGATGAGGATGAATCCGGGGAG
GAGAGGCTGCCCTCCTGCTTTGACTACGTCATGCACTTCCTGACTGTCTTCTGGAAGGTGCTGTTTGCC
TGTGTGCCCCCACAGACTACTGCCACGGCTGGGCCTGCTTCGCCGTCTCCATCCTCATATTGGCATG
CTCACCGCCATCATTGGGGACCTGGCCTCGCACTTCGGCTGCACCATTTGGTCTCAAAGATTCACTCACA
GCTGTTGTTTTCTGTCGATTTGGCACCTCTGTCCAGATACGTTTGCCAGCAAAGCTGCTGCCCTCCAG
GATGTATATGCAGACGCCTCCATTGGCAACGTGACGGGCAGCAACGCCGTCAATGTCTTCTGGGCATC
GGCCTGGCCTGGTCCGTGGCCGCCATCTACTGGGCTCTGCAGGGACAGGAGTTCCACGTGTCGGCCGGC
ACACTGGCCTTCTCCGTACCCCTCTTACCATCTTTGCATTTGTCTGCATCAGCGTGCTCTTGTACCGA
AGGCGGCCGCACCTGGGAGGGGAGCTTGGTGGCCCCGTGGCTGCAAGCTCGCCACAACATGGCTCTTT
GTGAGCCTGTGGCTCCTCTACATACTCTTGCCACACTAGAGGCCTATTGCTACATCAAGGGTTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001130417
Insert Size:	897 bp


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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_001130417.2</u>
RefSeq Size:	2979 bp
RefSeq ORF:	897 bp
Locus ID:	6547
UniProt ID:	<u>P57103</u>
Cytogenetics:	14q24.2
Protein Families:	Transmembrane
Protein Pathways:	Calcium signaling pathway
MW:	32.7 kDa
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 (g, also known as NCX3-tN.2) differs in the presence and absence of exons at its 5' end, compared to variant c. These differences result in a distinct 5' UTR and translation initiation at a downstream start codon, and an isoform (G) that is shorter than isoform C.</p>