

Product datasheet for RC225412

SLC8A3 (NM_001130417) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC8A3 (NM_001130417) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC8A3
Synonyms:	NCX3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225412 representing NM_001130417 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACGTGGAATATCAGATGTGACAGACAGGAAGCTGACTATGGAAGAAGAGGAGGCCAAGAGGATAG
CAGAGATGGGAAAGCCAGTATTGGGTGAACACCCCAAACCTAGAAGTCATCATTGAAGAGTCTATGAGTT
CAAGACTACGGTGGACAACTGATCAAGAAGACAAACCTGGCCTTGGTTGTGGGACCCATTCTGGAGG
GACCAGTTCATGGAGGCCATCACCGTCAGTGCAGCAGGGGATGAGGATGAGGATGAATCCGGGGAGGAGA
GGCTGCCCTCCTGCTTTGACTACGTCATGCACTTCTGACTGTCTTCTGGAAGGTGCTGTTGCCTGTGT
GCCCCCAACAGAGTACTGCCACGGCTGGCCTGCTTCGCCGTCTCCATCCTCATCATTGGCATGCTCACC
GCCATCATTGGGGACCTGGCCTCGCACTTCGGCTGCACCATTTGGTCTCAAAGATTCAGTCACAGCTGTTG
TTTTCGTGGCATTGGCACCTCTGTCCCAGATACGTTTGGCAGCAAAGCTGCTGCCCTCCAGGATGTATA
TGCAGACGCCCTCCATTGGCAACGTGACGGGCAGCAACGCCGTCATGTCTTCTGGGCATCGGCCTGGCC
TGGTCCGTGGCCGCCATCTACTGGGCTCTGCAGGGACAGGAGTCCACCGTGTCCGCCGGCACACTGGCCT
TCTCCGTACCCCTCTTACCATCTTTGCATTTGTCTGCATCAGCGTGCTTTGTACCGAAGGCGGCCGCA
CCTGGGAGGGGAGCTTGGTGGCCCCGTGGCTGCAAGCTCGCCACAACATGGCTCTTTGTGAGCCTGTGG
CTCCTCTACATACTCTTGGCCACTAGAGGCCATTGCTACATCAAGGGTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225412 representing NM_001130417
Red=Cloning site Green=Tags(s)

MERGISDVTDRKLTMEEEEAKRIAEMGKPVLEHPKLEVIIEESYEFKTTVDKLIKKTNLALVVGTHSWR
 DQFMEAITYSAAGDEDEDESSEERLPSCFDYVMHFLT VFWKVL FACVPPTEYCHGWACF AVSILIIIGMLT
 AIIIGDLASHFGCTIGLKDSVTAVVFAVGT SVPDTFASKAAALQDVYADASIGNVTGSNAVNVFLGIGLA
 WSVAAIYWALQGQEFHVSAGTLAFSVTLFTIFAFVCISVLLYRRRPHLGGELGGPRGCKLATTWLFVSLW
 LLYILFATLEAYCYIKGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8050_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001130417

ORF Size: 894 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_001130417.3](#)

RefSeq ORF: 897 bp

Locus ID: 6547

UniProt ID: [P57103](#)

Cytogenetics: 14q24.2

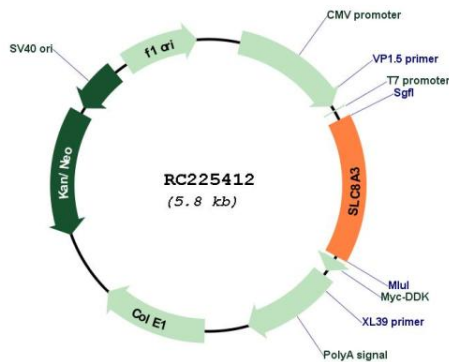
Protein Families: Transmembrane

Protein Pathways: Calcium signaling pathway

MW: 32.6 kDa

Gene Summary: 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]

Product images:



Circular map for RC225412