

Product datasheet for **RC219062**

SLC8A3 (NM_182932) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC8A3 (NM_182932) 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)



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ORF Nucleotide
Sequence:

>RC219062 representing NM_182932
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTGGTTAAGGTTGCAGCCTCTCACCTCTGCCTTCTCCATTTTGGGCTGGTTACCTTTGTGCTCT
 TCCTGAATGGTCTTCGAGCAGAGGCTGGTGGCTCAGGGGACGTGCCAAGCACAGGGCAGAACAATGAGTC
 CTGTTCCAGGGTCACTCGGACTGCAAGGAGGGTGTATCCTGCCAATCTGGTACCCGGAGAACCCTTCCTT
 GGGGACAAGATTGCCAGGGTCATTGTCTATTTTGTGGCCCTGATATACATGTTTCTGGGGTGTCCATCA
 TTGCTGACCGCTTCATGGCATCTATTGAAGTCATCACCTCTCAAGAGAGGGAGGTGACAATTAAGAAACC
 CAATGGAGAAACCAGCACAACTACTTCGGGTCTGGAATGAACTGTCTCAACCTGACCTTATGGCC
 CTGGGTTCTCTGCTCCTGAGATACTCCTCTTTAATTGAGGTGTGGTCCATGGGTTTCATTGCTGGTG
 ATCTGGGACCTTCTACCTTGTAGGGAGTGCAGCCTTCAACATGTTTCATCATCTTGGCATCTGTGTCTA
 CGTGATCCAGACGGAGAGACTCGAAGATCAAGCATCTACGAGTCTTTCATCACCGCTGCTTGGAGT
 ATCTTTGCCTACATCTGGCTCTATATGATTCTGGCAGTCTTCTCCCTGGTGTGGTCCAGGTTTGGGAAG
 GCCTCCTCACTCTTCTTCTTTCCAGTGTGTCTTCTTGCCTGGGTGGCAGATAAACGACTGCTCTT
 CTACAAATACATGCACAAAAAGTACCGCACAGACAAAACCGAGGAATTATCATAGAGACAGAGGGTGAC
 CACCCTAAGGGCATTGAGATGGATGGGAAAATGATGAATCCCATTTTCTAGATGGGAACCTGGTGGCCC
 TGGAAGGGAAGGAAGTGGATGAGTCCCGCAGAGAGATGATCCGGATTCTCAAGGATCTGAAGCAAAAACA
 CCCAGAGAAGGACTTAGATCAGCTGGTGGAGATGGCAATTAATGCTCTTTCCACCAACAGAAGAGC
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 GGCTCTTGTGACCCATGTTCTTACCAGTGCCTGGAGAAGTGTGGGGCTGTACTCCTGACAGTGGTGAGG
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 GAGGAGCAGCCAGAGGAGGGGATGCCTCCAGCAATATTCAACAGTCTTCCCTGCCTCGGGCTGTCTAG
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 ATACGAAAAGCAAGAGAATTTCTTCATTGCCCTTGGTGAACCGAAATGGATGGAACGTGGAATATCAGAT
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 GATCAAGAAGACAAACCTGGCCTTGGTTGTGGGGACCCATTCTGGAGGGACCAGTTCATGGAGGCCATC
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 ACGTCATGCACTTCTGACTGTCTTCTGGAAGGTGCTGTTTGCCTGTGTGCCCCACAGAGTACTGCCA
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 CCCCCGTGGTGAAGCTCGCCACAACATGGCTCTTGTGAGCCTGTGGCTCTTACATACTCTTTGCC
 AACTAGAGGCCATTGTACATCAAGGGTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219062 representing NM_182932
 Red=Cloning site Green=Tags(s)

MAWLRLQPLTSAFLHFGLVTFVLFNLGLRAEAGGSGDVPSTGQNNESCSGSSDCKEGVILPIWPENPSL
 GDKIARVIVYFVALIYMFLGVSIIADRFMASIEVITSQEREVTIKKPNGETSTTTIRVWNETVSNLTLMA
 LGSSAPEILLSLIEVCGHGFIAAGDLGPSTIVGSAAFNMFIIIGICVYVIPDGETRRIKHLRVFFITAAWS
 IFAYIWL YMILAVFSPGVVQVWEGLLTLFFPVCVLLAWVADKRLLFYKYMHKKYRTDKHRGIIETEGD
 HPKGIEMDGMMNSHFLDGNLVPLEGKEVDESRRMIRILKDLKQKHPEKDLQLVEMANYALSHQQKS
 RAFYRIQATRMMTGAGNILKKHAAEQAKKASSMSEVHTDEPEDFISKVFFDPCSQCLENCGAVLLTVVR
 KGGDSMTMYVDYKTEDGSANAGADYEFTEGTVVLKPGETQKEFSVGIIDDDIFEDEHFFVRLSNVRIE
 EEQPEEGMPPAIFNSLPLPRAVLASPCVATVTILDDDHAGIFTFECDTIHVSESIGVMEVKVLRVTSARG
 TVIVPFRVTEGTAKGGGEDFEDTYGELEFKNDET VKTIRVKIVDEEYERQENFFIALGEPKWMERGISD
 VTDRKLTMEEEEAKRIAEMGKPVLEHPKLEVIIEESYEFKTTVDKLIKTNLALVVGTHSWRDQFMEAI
 TVSAAGDEDEDESGEERLPSCFDYVMHFLTVFWKVLVACVPPTEYCHGWACFAVSILIIIGMLTAIIGDLA
 SHFGCTIGLKDSVTAVFVAFGTSVPDTFASKAAALQDVYADASIGNVTGSNAVNVFLGIGLAWSVAAIY
 WALQGQEFHVSAGTLAFSVTLFTIFAFVCSVLLYRRRPHLGGELGGPRGCKLATWLFVSLWLLYILFA
 TLEAYCYIKGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

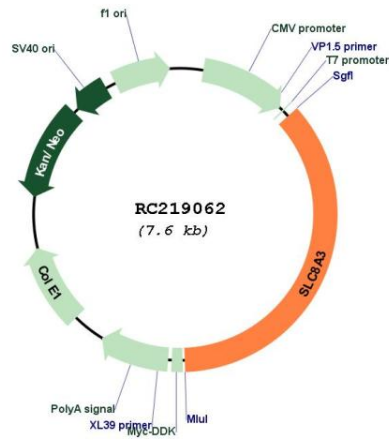


ACCN: NM_182932

ORF Size: 2763 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:	<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:	NM_182932.3
RefSeq Size:	5250 bp
RefSeq ORF:	2766 bp
Locus ID:	6547
UniProt ID:	P57103
Cytogenetics:	14q24.2
Protein Families:	Transmembrane
Protein Pathways:	Calcium signaling pathway
MW:	98.8 kDa
Gene Summary:	This gene encodes a member of the sodium/calcium exchanger integral membrane protein family. Na ⁺ /Ca ²⁺ exchange proteins are involved in maintaining Ca ²⁺ 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 Ca ²⁺ 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 RC219062