

Product datasheet for **RG219168**

SLC8A3 (NM_033262) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC8A3 (NM_033262) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC8A3
Synonyms:	NCX3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG219168 representing NM_033262
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTGGTTAAGGTTGCAGCCTCTCACCTCTGCCTTCTCCATTTTGGGCTGGTTACCTTTGTGCTCT
 TCCTGAATGGTCTTCGAGCAGAGGCTGGTGGCTCAGGGGACGTGCCAAGCACAGGGCAGAACAAATGAGTC
 CTGTTCCAGGGTCACTCGGACTGCAAGGAGGGTGTATCCTGCCAATCTGGTACCCGGAGAACCCTTCCCTT
 GGGGACAAGATTGCCAGGGTCATTGTCTATTTTGTGGCCCTGATATACATGTTTCTGGGGTGTCCATCA
 TTGCTGACCGCTTCATGGCATCTATTGAAGTCATCACCTCTCAAGAGAGGGAGGTGACAATTAAGAAACC
 CAATGGAGAAACCAGCACAACTACTTCGGGTCTGGAATGAACTGTCTCAACCTGACCTTATGGCC
 CTGGGTTCTCTGCTCCTGAGATACTCCTCTTTAATTGAGGTGTGGTCCATGGGTTTCTGCTGGT
 ATCTGGGACCTTCTACCATTGTAGGGAGTGCAGCCTTCAACATGTTTCATCATCTTGGCATCTGTGTCTA
 CGTGATCCAGACGGAGAGACTCGAAGATCAAGCATCTACGAGTCTTTCATCACCGCTGCTTGGAGT
 ATCTTTGCCTACATCTGGCTCTATATGATTCTGGCAGTCTTCTCCCTGGTGTGGTCCAGGTTTGGGAAG
 GCCTCCTCACTCTTCTTCTTTCCAGTGTGTCTTCTTGGCCTGGGTGGCAGATAAACGACTGCTCTT
 CTACAAATACATGCACAAAAAGTACCGCACAGACAAAACCGAGGAATTATCATAGAGACAGAGGGTGAC
 CACCCTAAGGGCATTGAGATGGATGGGAAAATGATGAATCCCATTTTCTAGATGGGAACCTGGTGGCCC
 TGGAAAGGAAGGAAGTGGATGAGTCCCGCAGAGAGATGATCCGGATTCTCAAGGATCTGAAGCAAAAACA
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 CGTGCCTTCTACCGTATCCAAGCCACTCGATGATGACTGGTGCAGGCAATATCCTGAAGAAACATGAGC
 CAGAACAAGCCAAGAAGGCCCTCCAGCATGAGCGAGGTGCACACCGATGAGCCTGAGGACTTTATTTCCAA
 GGTCTTCTTTGACCCATGTTCTTACCAGTGCCTGGAGAAGTGTGGGGCTGTACTCCTGACAGTGGTGGAG
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 GAGGAGCAGCCAGAGGAGGGGATGCCTCCAGCAATATTCAACAGTCTTCCCTGCCTCGGGCTGTCTAG
 CCTCCCTTGTGTGGCCACAGTTACCATCTTGGATGATGACCATGCAGGCATCTTCACTTTTGAATGTGA
 TACTATTCATGTCAGTGAGAGTATTGGTGTATGGAGGTCAAGGTTCTGCGGACATCAGGTGCCCGGGT
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 ATATGAGAAAAACAAGAATTACTTCATTGAGATGATGGGCCCCGCATGGTGGATATGAGTTTTAGAAA
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 AGAGTACTGCCACGGCTGGCCCTGCTTCGCCGTCTCCATCCTCATCATTGGCATGCTACCGCCATCATT
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 CCCTCTTACCATCTTTGCATTTGTCTGCATCAGCGTCTTGTACCGAAGGGCGCCGACCTGGGAGG
 GGAGCTTGGTGGCCCCGTGGCTGCAAGCTCGCCACAACATGGCTCTTTGTGAGCCTGTGGCTCCTCTAC
 ATACTCTTGGCACACTAGAGGCCTATTGCTACATCAAGGGGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219168 representing NM_033262
 Red=Cloning site Green=Tags(s)

MAWLRLQPLTSAFLHFGLVTFVFLNGLRAEAGGSGDVPSTGQNNESCSGSSDCKEGVILPIWYPENPSL
 GDKIARVIVYFVALIYMFLGVSIIADRFMASIEVITSQEREVTIKKPNGETSTTTIRVWNETVSNLTLMA
 LGSSAPEILLSLIEVCGHGFIAAGDLGPSTIVGSAAFNMFIIIGICVYVIPDGETRRIKHLRVFFITAAWS
 IFAYIWL YMILAVFSPGVVQVWEGLLTLFFPVCVLLAWVADKRLLFYKYMHKKYRTDKHRGIIIETEGD
 HPKGIEMDGMMNSHFLDGNLVPLEGKEVDESRREMIRILKDLKQKHPEKDLQLEMANYYALSHQQKS
 RAFYRIQATRMGTGAGNILKKHAAEQAKKASSMSEVHTDEPEDFISKVFFDPCSQCLENCGAVLLTVVR
 KGGDMSKTMVVDYKTEDGSANAGADYEFTEGTVVLPGETQKEFSVGIIDDDIFEDEHFFVRLSNVRIE
 EEQPEEGMPPAIFNSLPLPRAVLASPCVATVTILDHAGIFTFECDTIHVSESIGVMEVKVLRVTSARG
 TVIVPFRVTEGTAKGGGEDFEDTYGELEFKNDETVKTIHIKVIDDEAYEKNKNYFIEMMGPRMVDMSFQK
 ALLLSPDRKLTMEEEEAKRIAEMGKPVLEHPKLEVIIIEESYEFKTTVDKLIKTNLALVVGTHSWRDQF
 MEAITVSAAGDEDEDESGEERLPSCFDYMHFLTVFWKVLFACVPPTYCHGWACFAVSILIIIGMLTAII
 GD LASHFGCTIGLKDSVTAVVFAVFGTSPDTFASKAAALQDVYADASIGNVTGSNAVNVFLGIGLAWSV
 AAIYWALQGQEFHVSAGTLAFSVTLFTIFAFVCSVLLYRRRPHLGGELGGPRGCKLATTWLVSLWLLY
 ILFATLEAYCYIKGF

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

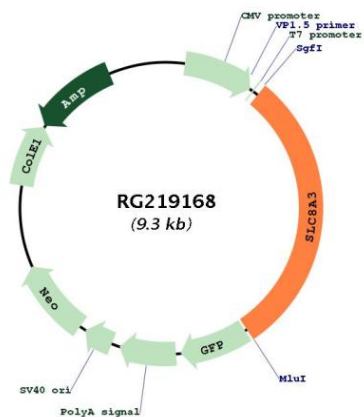
Cloning Scheme:



ACCN: NM_033262

ORF Size:	2775 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_033262.4
RefSeq Size:	5262 bp
RefSeq ORF:	2778 bp
Locus ID:	6547
UniProt ID:	P57103
Cytogenetics:	14q24.2
Protein Families:	Transmembrane
Protein Pathways:	Calcium signaling pathway
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 RG219168