

Product datasheet for **RR207386**

Slc8a3 (NM_078620) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc8a3 (NM_078620) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc8a3
Synonyms:	Ncx3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR207386 representing NM_078620
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTGGTTACGGCTGCAGCCTCTCACCTCTGCCTTCTCCATTTTCGGCTGGTTACTTTTGTGCTCT
 TCCTGAATGGTCTTCGAGCAGAGGCTGGTACTTGAGGGATGTGCCAGTGCAGGACAGAACAATGAGTC
 CTGTTACAGGGTCACTCAGACTGCAAGGAGGGTGTATCTTGCCAATCTGGTATCCAGAGAACCCTTCCTT
 GGGGACAAGATTGCAAGGGTCACTGTCTATTTTGTGGCCCTGATACATGTTTCTTGGAGTGTCTATCA
 TTGCTGACCGATTGATGGCATCTATTGAAGTTATTACCTCCAAGAGAGGGGAGGTGACAATCAAGAAGCC
 CAATGGAGAGACCAGCACAACTACAATTCGGGTATGGAATGAACTGTCTCCAACCTGACCTGATGGCC
 CTAGGCTCTTCTGCTCCGGAGATTCTCCTGTCTTAATTGAGGTGTGGTACGGGTTCACTGCTGGT
 ATTTGGGACCGTCTACCATGTCGGCAGTGCAGCCTTCAACATGTTTATCATCATCTTGGCATCTGTGTCTA
 TGTGATCCAGATGGGGAGACTCGAAGATCAAGCACCTTCGAGTCTTCTTGTACGGCTGCTTGGAGC
 GTCTTTGCCTATATTTGGCTCTACATGATCCTGGCAGTCTTCTCCTGGTGTGGTCCAGGTTTGGGAAG
 GCCTCCTTACTCTTCTTCTTCCAGTGTGTCTGCTGGCTTGGGTGGCAGATAAGCGACTGCTCTT
 CTACAAATACATGCACAAAAGATACCGCACAGATAAACACCGAGGAATTATCATTGAGACAGAGGGTGAA
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 TACCATTATGTCAGTGAAGTATTGGTGTATGGAAGTCAAGGTTTTGAGGACATCGGGTCCCGGGGC
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 AGATGGGAAAGCCAGTATTGGGTGAACACCCTAACTAGAGGTCACTATTGAAGAGTCTATGAGTTCAA
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 CCCACAGAGTACTGCCATGGCTGGCCCTGCTTCTGGTCTCCATCCTCATCATCGGCATGCTCACCGCC
 ATCATCGGGGACCTGGCCTCTCACTTCGGCTGCACCATCGGGCTCAAGGATTCGGTCAACAGCTGTTGTTT
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 GGGCGGGAGCTTGGAGGTCTCGTGGCTGCAAGCTTGCACAACGTGGCTCTTTGTGAGCCTGTGGCTC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR207386 representing NM_078620
 Red=Cloning site Green=Tags(s)

MAWLRLQPLTSAFLHFGLVTFVFLNGLRAEAGDLRDVPSAGQNNESCSGSSDCKEGVILPIWPENPSL
 GDKIARVIVYFVALIYMFLGVSIIADRFMASIEVITSQEREVTIKKPNGETSTTTIRVWNETVSNLTLMA
 LGSSAPEILLSLIEVCGHGFIAAGDLGPSTIVGSAAFNMFIIIGICVYVIPDGETRRIKHLRVFFVTAWS
 VFAYIWLVMILAVFSPGVVQVWEGLLTLFFPVCVLLAWVADKRLLFYKYMHKRYRTDKHRGIIIEETE
 HPKGIEMDGMMNSHFLDGNLIPLEGKEVDESRREMIRILKDLKQKHPEKDLQVEMANYALSHQOKS
 RAFYRIQATRMTGAGNILKKHAAEQAKKTASMSEVHTDEPEDFASKVFFDPCSQCLENCGAVLLTVVR
 KGGDISKTMVVDYKTEDGSANAGADYEFTEGTVVLKPGETQKEFSVGIIDDDIFEEDHFFVRLSNVRVE
 EEQLEEGMTPAILNSLPLPRAVLASPCVATVTILDDDHAGIFTFECDTIHVSESIGVMEVKVLRVTSARG
 TVIVPFRTVEGTAKGGGEDFEDTYGELEFKNDET VKTIRVKIVDEEYERQENFFIALGEPKWMERGIS
 ALLSPEVTRKLTMEEEEAKRIAEMGKPVLEHPKLEVIIEESYEFKSTVDKLIKKNLALVVGTHSWRD
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 IIGDLASHFGCTIGLKDSVTAVVFAFGTSVPTDFASKAAALQDVYADASIGNVTGSNAVNVFLGIGLAW
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

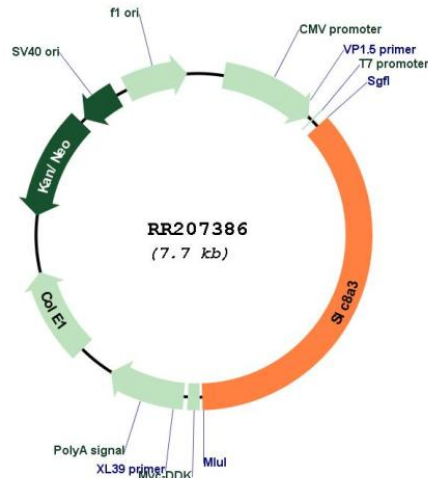
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_078620

ORF Size: 2781 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_078620.2](#), [NP_511175.1](#)

RefSeq Size: 4749 bp

RefSeq ORF: 2784 bp

Locus ID: 140448

UniProt ID: [P70549](#)

Cytogenetics: 6q24

MW: 103.2 kDa

Gene Summary: isoform 3 of the integral membrane sodium/calcium exchanger proteins; maintains intracellular calcium homeostasis [RGD, Feb 2006]