

Product datasheet for **RR217373**

Slc8a1 (NM_001270779) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc8a1 (NM_001270779) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc8a1
Synonyms:	Ncx; Ncx1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR217373 representing NM_001270779
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTTCGACTAAGTCTCCACCCAATGTTTCAATGGGATTTCTGCTGGTAACTCTGGTGGCTCTCTTGT
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 TGGCTCATATTACTGTAAGAAAGGGGTGATTCTGCCATTTGGGAACCCCAAGACCCATCTTTTGGGGAT
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 GCCTATACCTGGCTTTACATAATTTTGTCTGTGACTCTCTCTGGTGTCTGGAGGTCTGGGAAGGATTAC
 TCACTTTCTTCTTCTTCCCATCTGTGTTGTGTTGCTTGGGTTGCAGACAGGCGCTTCTCTTTTACAA
 GTATGTCTACAAGCGGTACAGGGCTGGCAAGCAGAGGGGGATGATCATTGAACATGAAGGAGACAGACCA
 GCTTCCAAAACCTGAAATTTGAAATGGATGGGAAAGTAGTCAACTCCACGTTGACAATTTCTTAGATGGCG
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 ATGAGTGAGAAGAAAGCCCTGTTGTTAAATGAGCTTGGTGGCTTACATTAACAGGCCAACCTGTCTTCA
 GGAAGGTCCATGCTAGAGATCATCCGATTCCTCTACCGTAATCAGCATTTCAGAGGAGTACGATGACAA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217373 representing NM_001270779
 Red=Cloning site Green=Tags(s)

MLRLSLPPNVSMGFRLVTLVALLFTHVDHITADTEAETGGNETTECTGSYYCKKGVILPIWEPQDPSFGD
 KIARATVYFVAMVYMFVFLGVSIIADRFMSSIEVITSOKEITIKKPNGETTKTTVRIWNETVSNLTLMALG
 SSAPEILLSVIEVCGHNFTAGDLGPSTIVGSAAFNMFIIALCVYVVPDGETRRIKHLRVFFVTAWSIF
 AYTWLYIILSVSSPGVVEVWEGLLTFFFPICVVFVAWADRRLFYKYVYKRYRAGKQRGMIEHEGDRP
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 LSQQQKSRAFYRIQATRLMTGAGNILKRHAADQARKAVSMHEVNMVNDVNDPVSXVFFEQGTQCLENCG
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 SGARGNVIIPYKTIEGTARGGGEDFEDTCGELEFQNDIVKTVSVKVIDDEEYKNTFFIEIGEPRLVE
 MSEKKALLNELGGFTLTGQPVFRKVHARDHPIPSTVISISEEYDDKQPLTSKEEEERRIAEMGRPILGE
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 HFLTVFWKVLFAFVPPTEYWNGWACFIVSILMIGLLTAFIGDLASHFGCTIGLKDSVTAVFVALGTSVP
 DTFASKVAATQDQYADASIGNVTGSNAVNVFLGIGVAWSIAAIYHAANGEQFKVSPGTLAFSVTLFTIFA
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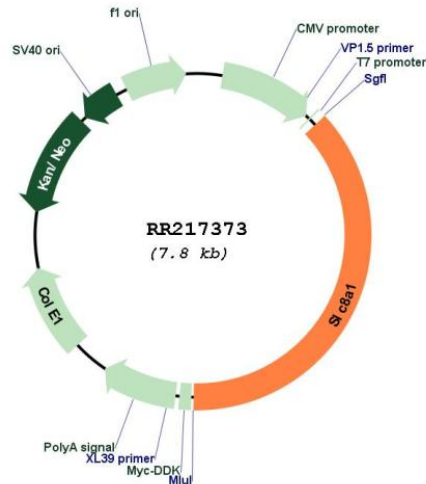
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001270779

ORF Size: 2895 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_001270779.1](#), [NP_001257708.1](#)

RefSeq Size: 6224 bp

RefSeq ORF: 2898 bp

Locus ID: 29715

Cytogenetics: 6q12

MW: 107.4 kDa

Gene Summary: displays Na⁺ gradient-dependent Ca²⁺ transport activity; plays a role in regulation of calcium ion transport [RGD, Feb 2006]