

Product datasheet for **RR217363**

Slc8a1 (NM_001270774) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc8a1 (NM_001270774) 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:

>RR217363 representing NM_001270774
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTTCGACTAAGTCTCCACCCAATGTTTCAATGGGATTTCTGCTGGTAACTCTGGTGGCTCTCTTGT
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 TGGCTCATATTACTGTAAGAAAGGGGTGATTCTGCCATTTGGGAACCCCAAGACCCATCTTTTGGGGAT
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 TCTTCCGCTCCTGAGATTCTCTGTCTGTCATTGAAGTGTGTGCCATAACTTCACCGCAGGGGACCTTG
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 GCCTATACCTGGCTTTACATAATTTTGTCTGTGACTCTCTCTGGTGTCTGGAGGTCTGGGAAGGATTAC
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 CTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217363 representing NM_001270774
 Red=Cloning site Green=Tags(s)

MLRLSLPPNVSMGFRLVTLVALLFTHVDHITADTEAETGGNETTECTGSYYCKKGVILPIWEPQDPSFGD
 KIARATVYFVAMVYMFVFLGVSIIADRFMSSIEVITSOKEITIKKPNGETTKTTVRIWNETVSNLTLMALG
 SSAPEILLSVIEVCGHNFTAGDLGPSTIVGSAFNMFIIALCVYVVPDGETRRIKHLRVFFVTAWSIF
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 LSQQQKSRAFYRIQATRLMTGAGNILKRHAADQARKAVSMHEVNMVNDVNDPVSXVFFEQGTQCLENCG
 TVALTIIRGGDLTNTVFVDFRTEGDTANAGSDYEFTEGTVIFKPGETQKEIRVGIIDDDIFEEDENFLV
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 SGARGNVIIPYKTIEGTARGGGEDFEDTCGELEFQNDIEVKTISVKVIDDEEYEKNKTFEIEIGEPRLVE
 MSEKKGFTLTGQPVFRKVHARDHPIPSTVISISEEYDDKQPLTSKEEEERRIAEMGRPILGEHTKLEVI
 IEESYEFKSTVDKLIKKNLALVVGTSWREQFIEAITVSAGEDDDDDDECGEELPSCFDYVMHFLTVFW
 KVLFAFVPPTEYWNGWACFIVSILMIGLLTAFIGDLASHFGCTIGLKDSVTAVFVALGTSVPDTFASKV
 AATQDQYADASIGNVTGSNAVNVFLGIGVAWSIAAIYHAANGEQFKVSPGTLAFSVTLFTIFAFINVGVL
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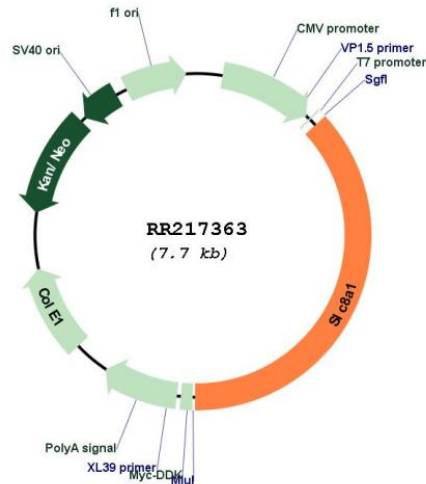
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001270774

ORF Size: 2874 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_001270774.1](#), [NP_001257703.1](#)

RefSeq Size: 6203 bp

RefSeq ORF: 2877 bp

Locus ID: 29715

UniProt ID: [Q01728](#)

Cytogenetics: 6q12
MW: 106.7 kDa
Gene Summary: displays Na⁺ gradient-dependent Ca²⁺ transport activity; plays a role in regulation of calcium ion transport [RGD, Feb 2006]