

## Product datasheet for **RR217348**

### Slc8a1 (NM\_001270772) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc8a1 (NM_001270772) 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



[View online »](#)

ORF Nucleotide  
Sequence:

>RR217348 representing NM\_001270772  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGCTTCGACTAAGTCTCCACCCAATGTTTCAATGGGATTTCTGCTGGTAACTCTGGTGGCTCTCTTGT  
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 TGGCTCATATTACTGTAAGAAAGGGGTGATTCTGCCATTTGGGAACCCCAAGACCCATCTTTTGGGGAT  
 AAAATTGCTAGAGCAACTGTGTATTTGTGGCCATGGTCTACATGTTCTCGGAGTTTCTATTATTGCCG  
 ACCGGTTTATGCTCTATAGAAGTCACTACCTCTCAAGAAAAGGAGATTACCATAAAGAAACCAATGG  
 AGAGACCACCAAGACTACAGTGCATCTGGAATGAGACTGTGTCCAACCTGACCTTGATGGCCCTGGGA  
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 GTCCAGCACCATTGTGGGAAGCGCCCTTCAACATGTTTCACTCATCATCGCGCTTGTGTTTATGTGGT  
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 GCCTATACCTGGCTTTACATAATTTTGTCTGTGACTCTCTCTGGTGTCTGGAGGTCTGGGAAGGATTAC  
 TCACTTTCTTCTTTCCCATCTGTGTTGTGTTGCTTGGGTTGCAGACAGGCGCTTCTCTTTTACAA  
 GTATGTCTACAAGCGGTACAGGGCTGGCAAGCAGAGGGGGATGATCATTGAACATGAAGGAGACAGACCA  
 GCTTCCAAAACCTGAAATTTGAAATGGATGGGAAAGTAGTCAACTCCACGTTGACAATTTCTTAGATGGCG  
 CTCTGGTTTTGGAAGTCGATGAGAGGGACCAAGATGACGAGGAAGCCAGGCGTGAGATGGCAAGGATTCT  
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 CTAAGTCAGCAGCAAAAGAGCCGAGCATTACCGAATTCAAGCTACTCGCTGATGACTGGAGCTGGTA  
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 GGTTGAAAATGACCCAGTCAGTAAGGTCTTTTGTGAGCAAGGGACATACCAGTGTCTAGAAAACCTGTGGT  
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 AGCAGCTACCCAGGACAGTATGCAGATGCGTCCATAGGCAATGTACCAGGAAAGCAACGCTGTGAATGTC  
 TTCCTGGGAATCGGCGTGGCCTGGTCCATTGCTGCCATCTACCATGCGGCAACGGGGAACAGTTCAAAG  
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 GCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR217348 representing NM\_001270772  
 Red=Cloning site Green=Tags(s)

MLRLSLPPNVSMGFRLVTLVALLFTHVDHITADTEAETGGNETTECTGSYYCKKGVILPIWEPQDPSFGD  
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 SSAPEILLSVIEVCGHNFTAGDLGPSTIVGSAAFNMFIIALCVYVVPDGETRRIKHLRVFFVTAWSIF  
 AYTWLYIILSVSSPGVVEVWEGLLTFFFPICVVFVAVADRRLLFYKYVYKRYRAGKQRGMIEHEGDRP  
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 VGTNSWREQFIEAITVSAGEDDDDDCEGEEKLPSCFDYVMHFLTVFWKVLFAFVPPTEYWNGWACFIVSI  
 LMIGLLTAFIGDLASHFGCTIGLKDSVTAVFVALGTSVPDFTASKVAATQDQYADASIGNVTGSNAVNV  
 FLGIGVAWSIAAIYHAANGEQFKVSPGTLAFSVTLFTIFAFINVGVLVRRRPEIGGELGGPRTAKLLTS  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

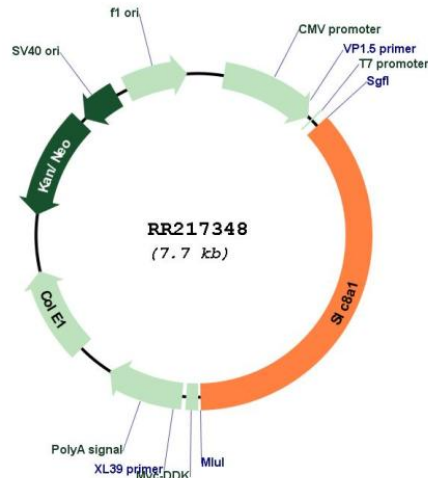
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001270772

ORF Size: 2805 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\\_001270772.1](#), [NP\\_001257701.1](#)

RefSeq Size: 6134 bp

RefSeq ORF: 2808 bp

Locus ID: 29715

UniProt ID: [Q01728](#)

Cytogenetics: 6q12

**MW:** 104.2 kDa

**Gene Summary:** displays Na<sup>+</sup> gradient-dependent Ca<sup>2+</sup> transport activity; plays a role in regulation of calcium ion transport [RGD, Feb 2006]