

## Product datasheet for **RR205452**

### **Slc8a1 (NM\_019268) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc8a1 (NM_019268) 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:**

>RR205452 representing NM\_019268  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTTCGACTAAGTCTCCACCCAATGTTTCAATGGGATTTCTGCTGGTAACTCTGGTGGCTCTCTTGT  
 TTACCCATGTTGACCATATAACTGCAGATACAGAGGCAGAAACAGGAGGAAATGAAACCACTGAATGTAC  
 TGGCTCATATTACTGTAAGAAAGGGGTGATTCTGCCATTTGGGAACCCCAAGACCCATCTTTTGGGGAT  
 AAAATTGCTAGAGCAACTGTGTATTTGTGGCCATGGTCTACATGTTCTCGGAGTTTCTATTATTGCCG  
 ACCGGTTTATGCTCTATAGAAGTCACTACCTCTCAAGAAAAGGAGATTACCATAAAGAAACCAATGG  
 AGAGACCACCAAGACTACAGTGCATCTGGAATGAGACTGTGTCCAACCTGACCTTGATGGCCCTGGGA  
 TCTTCCGCTCCTGAGATTCTCTGTCTGTCATTGAAGTGTGTGCCATAACTTACCAGCAGGGGACCTTG  
 GTCCAGCACCATTGTGGGAAGCGCCCTTCAACATGTTTCATCATCATCGCGCTTGTGTTTATGTGGT  
 CCCAGATGGAGAGACGAGGAAGATTAACATCTGCGTGTGTTCTTTGTGACAGCAGCCTGGAGCATCTTT  
 GCCTATACCTGGCTTTACATAATTTTGTCTGTGACTCTCTCTGGTGTCTGGAGGTCTGGGAAGGATTAC  
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 CTCTGGTTTTGGAAGTCGATGAGAGGGACCAAGATGACGAGGAAGCCAGGCGTGAGATGGCAAGGATTCT  
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 CTAAGTCAGCAGCAAAAGAGCCGAGCATTTCACGAATTAAGCTACTCGCTGATGACTGGAGCTGGTA  
 ACATTTTTGAAGAGGCATGCAGTGACCAAGCGAGGAAGGCTGTCAGCATGCATGAAGTCAACATGGATG  
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 GACCCAGAAGGAAATCAGAGTTGGCATCATTGATGATGATATCTTTGAAGAAGATGAAAACCTTTCTGTG  
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 CGATTGCTGTCTCGGTCACCCAACACTGCCACCATAACCATTTTTGATGATGACCACGCGGCATCTT  
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 GGAGTACGATGACAAGCAGCCACTGACCAGCAAAGAGGAGGAGGAGGCGCATTGCAGAAATGGGGCGC  
 CCCATTCTAGGCGAACACACCAAGCTGGAAGTGATCATTGAAGAGTCTTACGAATTAAGAGCACTGTGG  
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 AGCGATCACCGTCAGCGCTGGGGAAGATGACGATGATGAATGTGGGAGGAGAAGCTGCCCTCCTGT  
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 GGAACCTCAGTGCCAGACACATTTGCCAGCAAAGTAGCAGCTACCCAGGACCAAGTATGCAGATGCGTCCA  
 TAGGCAATGTACCAGGAAGCAACGCTGTGAATGTCTTCTGGGAATCGGCGTGGCCTGGTCCATTGCTGC  
 CATCTACCATGCGGCCAACGGGGAACAGTTCAAAGTGTCCCTGGCACGCTAGCTTTCTCTGCTACTCTC  
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 TGGGTGGGCCCCGACTGCCAAGCTCCTCACATCTCCCTGTTTGTGCTCTGTGGCTCTGTACATTTT  
 CTCTCCTCCCTGAGGCGCTACTGCCACATAAAAGGCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR205452 representing NM\_019268  
 Red=Cloning site Green=Tags(s)

MLRLSLPPNVSMGFRLVTLVALLFTHVDHITADTEAETGGNETTECTGSYYCKKGVILPIWEPQDPSFGD  
 KIARATVYFVAMVYMFVFLGVSIIADRFMSSIEVITSQEKEITIKKPNGETTKTTVRIWNETVSNLTLMALG  
 SSAPEILLSVIEVCGHNFTAGDLGPSTIVGSAFNMFIIALCVYVVPDGETRRIKHLRVFFVTAWSIF  
 AYTWLYIILSVSSPGVVEVWEGLLTFFFPICVVFVAVADRRLFYKYVYKRYRAGKQRGMIEHEGDRP  
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 LSQQQKSRAFYRIQATRLMTGAGNILKRHAADQARKAVSMHEVNMVNDVNDPVSXVFFEQGTQCLENCG  
 TVALTIIRRGDLTNTVFVDFRTEGDTANAGSDYEFTEGTIVFKPGETQKEIRVGIIDDDIFEEDENFLV  
 HLSNVRVSSEVSEDGILDSNHVSAIACLGSPNTATITIFDDDHAGIFTFEEPVTHVSESIGIMEVKVLR  
 SGARGNVIIPYKTIEGTARGGGEDFEDTCGELEFQNDIEVKTISVKVIDDEEYEKNKTFEIEIGEPRLVE  
 MSEKKALLNELGGFTLTGKKMYQPVFRKVVHARDHPIPSTVISISEEYDDKQPLTSKEEEERIAEMGR  
 PILGEHTKLEVIIEESYEFKSTVDKLIKKNLALVVGTSWREQFIEAITVSAGEDDDDDCEGEEKLPSC  
 FDYVMHFLTVFWKVLFAFVPPTEYWNGWACFIVSILMIGLLTAFIGDLASHFGCTIGLKDSYTVAVFVAL  
 GTSVPTDFASKVAATQDQYADASIGNVTGSNAVNVFLGIGVAWSIAAIYHAANGEQFKVSPGTLAFSVTL  
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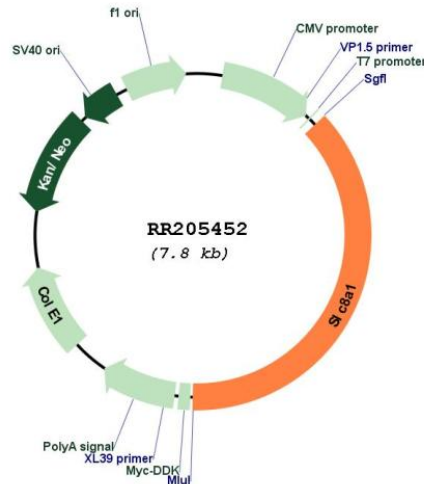
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



Plasmid Map:



ACCN: NM\_019268

ORF Size: 2910 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\\_019268.3](#), [NP\\_062141.3](#)

RefSeq Size: 6239 bp

RefSeq ORF: 2913 bp

Locus ID: 29715

Cytogenetics: 6q12

**MW:** 108.1 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]