

## Product datasheet for **RN217366**

### **Slc8a1 (NM\_001270777) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc8a1 (NM_001270777) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc8a1
Synonyms:	Ncx; Ncx1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN217366 representing NM\_001270777  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTTCGACTAAGTCTCCACCCAATGTTTCAATGGGATTTCTGCTGGTAACTCTGGTGGCTCTCTTGT  
 TTACCCATGTTGACCATATAACTGCAGATACAGAGGCAGAAACAGGAGGAAATGAAACCACTGAATGTAC  
 TGGCTCATATTACTGTAAGAAAGGGGTGATTCTGCCATTTGGGAACCCCAAGACCCATCTTTTGGGGAT  
 AAAATTGCTAGAGCAACTGTGTATTTGTGGCCATGGTCTACATGTTCTCGGAGTTTCTATTATTGCCG  
 ACCGGTTTATGCTCTATAGAAGTCACTACCTCTCAAGAAAAGGAGATTACCATAAAGAAACCAATGG  
 AGAGACCACCAAGACTACAGTGCATCTGGAATGAGACTGTGTCCAACCTGACCTTGATGGCCCTGGGA  
 TCTTCCGCTCCTGAGATTCTCTGTCTGTCATTGAAGTGTGTGCCATAACTTACCAGCAGGGGACCTTG  
 GTCCAGCACCATTGTGGGAAGCGCCCTTCAACATGTTTCACTCATCATCGCGCTTTGTGTTTATGTGGT  
 CCCAGATGGAGAGACGAGGAAGATTAACATCTGCGTGTGTTCTTTGTGACAGCAGCCTGGAGCATCTTT  
 GCCTATACCTGGCTTTACATAATTTTGTCTGTGACTCTCTCTGGTGTCTGGAGGTCTGGGAAGGATTAC  
 TCACTTTCTTCTTTCCCATCTGTGTTGTGTTGCTTGGGTTGCAGACAGGCGCTTCTCTTTTACAA  
 GTATGTCTACAAGCGGTACAGGGCTGGCAGCAGAGGGGGATGATCATTGAACATGAAGGAGACAGACCA  
 GCTTCCAAAACCTGAAATTTGAAATGGATGGGAAAGTAGTCAACTCCACGTTGACAATTTCTTAGATGGCG  
 CTCTGGTTTTGGAAGTCGATGAGAGGGACCAAGATGACGAGGAAGCCAGGCGTGAGATGGCAAGGATTCT  
 GAAGGAACTTAAGCAGAAGCATCCCGACAAAGAGATCGAACAATTAATAGAATTAGCCAATATCAAGTC  
 CTAAGTCAGCAGCAAAAGAGCCGAGCATTACCGAATTCAAGCTACTCGCTGATGACTGGAGCTGGTA  
 ACATTTTGAAGAGGCATGCAGTGACCAAGCGAGGAAGGCTGTCAGCATGCATGAAGTCAACATGGATG  
 GGTTGAAAATGACCCAGTCAGTAAGGTCTTCTTTGAGCAAGGGACATACCAGTGTCTAGAAAACCTGTGGT  
 ACTGTGGCCCTCACCATTTATCGAAGAGGGGTGACTTGACCAACTGTGTTTGTGACTTCAGGACGG  
 AAGATGGCACAGCCAATGCTGGGTCTGATTATGAGTTCACGGAAGGGACTGTGATCTTCAAACCTGGGGA  
 GACCCAGAAGGAAATCAGAGTTGGCATCATTGATGATGATATCTTTGAAGAAGATGAAAACCTTCTTGTG  
 CATCTTAGCAACGTCAGGGTCTCTTTCAGAAGTCTCGGAAGATGGCATACTAGACTCCAATCACGTGTCTG  
 CGATTGCTGTCTCGGTCACCCAACACTGCCACCATAACCATTTTGTGATGACCACGCGGGCATCTT  
 TACTTTGAGGAACCCGTGACTCACGTGAGCGAGAGCATTGGCATCATGGAGGTGAAGGTGCTGAGAACC  
 TCTGGAGCGCGAGGAAATGTTATCATTCCCTATAAAACCATTTGAAGGCACAGCCGAGGTGGAGGGGAGG  
 ACTTTGAGGACACCTGTGGAGAGCTGGAATTCAGAATGATGAAATAGTGAAGATCATTACCATTAGAAT  
 ATTTGACCGTGAGGAATATGAGAAAGAGTGCAGTTTTCTCCCTTGTGCTTGGAGAACCAAAATGGATAAGA  
 AGAGGAATGAAAGGTGGCTTACATTAACAGGAAAAAAGATGATGGCCAACCTGTCTTCAGGAAGGTCC  
 ATGCTAGAGATCATCCGATTCCTCTACCGTAATCAGCATTTTCAGAGGAGTACGATGACAAGCAGCCACT  
 GACCAGCAAAGAGGAGGAGGAGGCGCATTGCAGAAATGGGGCGCCCATTTAGGCGAACACACCAAG  
 CTGGAAGTGATCATTGAAGAGTCTTACGAATCAAGAGCACTGTGGACAAACTCATTGAAGAGCAACC  
 TGGCCCTCGTGGTGGGACCAACAGCTGGAGAGAGCAGTTCATTGAAGCGATCACCGTCAGCGCTGGGA  
 AGATGACGATGATGATGAATGTGGGAGGAGAAGCTGCCCTCCTGTTTTGATTACGTGATGCACCTTCTC  
 ACAGTGTCTGGAAGTTCTGTTTGCCTTCGTCACCTACAGAATATTGGAATGGCTGGGCTGCTTCA  
 TTGCTCCATCCTCATGATCGGCCACTGACAGCCTTCAATGGAGATCTGGCTTCCCACTTTGGCTGCAC  
 CATTGGTCTGAAAGATTCGGTACTGCAGTTGTGTTTGTGCTCTTGGAACTCAGTGCCAGACACATTT  
 GCCAGCAAAGTAGCAGCTACCCAGGACCAGTATGCAGATGCGTCCATAGGCAATGTACCAGGAAAGCAACG  
 CTGTGAATGTCTTCTGGGAATCGGCGTGGCTGGTCCATTGCTGCCATCTACCATGCGGCAACGGGGA  
 ACAGTTCAAAGTGTCCCCTGGCACGCTAGCTTTCTGTCACTCTCTTACCATTTTGTCTTTCATCAAC  
 GTGGGGTGTGCTGTATCGGCGGAGGCCAGAAATAGGAGGTGAGCTGGTGGGCCCCGGACTGCCAAGC  
 TCCTCACATCTTCCCTGTTTGTGCTCCTGTGGCTTGTACATTTCTTCTCCTCCCTGGAGGCCTACTG  
 CCACATAAAAGGCTTCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001270777
<b>Insert Size:</b>	2889 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001270777.1</a></u> , <u><a href="#">NP_001257706.1</a></u>
<b>RefSeq Size:</b>	6215 bp
<b>RefSeq ORF:</b>	2889 bp
<b>Locus ID:</b>	29715
<b>UniProt ID:</b>	<u><a href="#">Q01728</a></u>
<b>Cytogenetics:</b>	6q12
<b>Gene Summary:</b>	<p>displays Na<sup>+</sup> gradient-dependent Ca<sup>2+</sup> transport activity; plays a role in regulation of calcium ion transport [RGD, Feb 2006]</p> <p>Transcript Variant: This variant (7) contains an alternate second exon and lacks an alternate in-frame exon compared to variant 1. The resulting isoform (7) has the same N- and C-termini but is shorter compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>