

Product datasheet for **RN217348**

Slc8a1 (NM_001270772) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc8a1 (NM_001270772) 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: >RN217348 representing NM_001270772
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTTCGACTAAGTCTCCACCCAATGTTTCAATGGGATTTCTGCTGGTAACTCTGGTGGCTCTCTTGT
 TTACCCATGTTGACCATATAACTGCAGATACAGAGGCAGAAACAGGAGGAAATGAAACCACTGAATGTAC
 TGGCTCATATTACTGTAAGAAAGGGGTGATTCTGCCATTTGGGAACCCCAAGACCCATCTTTTGGGGAT
 AAAATTGCTAGAGCAACTGTGTATTTGTGGCCATGGTCTACATGTTCTCGGAGTTTCTATTATTGCCG
 ACCGGTTTATGCTCTATAGAAGTCACTACCTCTCAAGAAAAGGAGATTACCATAAAGAAACCAATGG
 AGAGACCACCAAGACTACAGTGGTATCTGGAATGAGACTGTGTCCAACCTGACCTTGATGGCCCTGGGA
 TCTTCCGCTCCTGAGATTCTCTGTCTGTCATTGAAGTGTGTGCCATAACTTCACCGCAGGGGACCTTG
 GTCCAGCACCATTGTGGGAAGCGCCCTTCAACATGTTTCATCATCATCGCGCTTGTGTTTATGTGGT
 CCCAGATGGAGAGACGAGGAAGATTAACATCTGCGTGTGTTCTTTGTGACAGCAGCCTGGAGCATCTTT
 GCCTATACCTGGCTTTACATAATTTTGTCTGTGAGCTCTCCTGGTGTCTGGAGGTCTGGGAAGGATTAC
 TCACTTTCTTCTTTCCCATCTGTGTTGTGTTGCTTGGGTTGCAGACAGGCGCTTCTCTTTTACAA
 GTATGTCTACAAGCGGTACAGGGCTGGCAAGCAGAGGGGGATGATCATTGAACATGAAGGAGACAGACCA
 GCTTCCAAAACCTGAAATTTGAAATGGATGGGAAAGTAGTCAACTCCACGTTGACAATTTCTTAGATGGCG
 CTCTGGTTTTGGAAGTCGATGAGAGGGACCAAGATGACGAGGAAGCCAGGCGTGAGATGGCAAGGATTCT
 GAAGGAACTTAAGCAGAAGCATCCCGACAAAGAGATCGAACAATTAATAGAATTAGCCAATATCAAGTC
 CTAAGTCAGCAGCAAAAGAGCCGAGCATTACCGAATTCAAGCTACTCGCTGATGACTGGAGCTGGTA
 ACATTTTGAAGAGGCATGCAGTGACCAAGCGAGGAAGGCTGTGAGCATGCATGAAGTCAACATGGATG
 GGTTGAAAATGACCCAGTCAGTAAGGTCTTCTTTGAGCAAGGGACATACCAGTGTCTAGAAAACCTGTGGT
 ACTGTGGCCCTCACCATTTTCGAAGAGGGGTGACTTGACCAACTGTGTTTGTGACTTCAGGACGG
 AAGATGGCACAGCCAATGCTGGGTCTGATTATGAGTTCACGGAAGGGACTGTGATCTTCAAACCTGGGGA
 GACCCAGAAGGAAATCAGAGTTGGCATCATTGATGATGATATCTTTGAAGAAGATGAAAACCTTCTGTG
 CATCTTAGCAACGTCAGGGTCTCTTCAGAAGTCTCGGAAGATGGCATACTAGACTCCAATCACGTGTCTG
 CGATTGCTGTCTCGGTACCCAACTGCCACCATAACCATTTTGTGATGACCACGCGGCATCTT
 TACTTTGAGGAACCCGTGACTCACGTGAGCGAGAGCATTGGCATCATGGAGGTGAAGGTCTGAGAACC
 TCTGGAGCGGAGGAAATGTTATCATTCCCTATAAAACCTTGAAGGCACAGCCGAGGTGGAGGGGAGG
 ACTTTGAGGACACCTGTGGAGAGCTGGAATCCAGAATGATGAAATAGTCAAACAATATCAGTCAAGGT
 AATCGATGACGAGGAGTATGAGAAAAACAAGACCTTCTTCATTGAGATTGGAGAACCCCGCTCGGTGGAG
 ATGAGTGAGAAGAAAGGTGGCTTCAATTAACAGAGGAGTACGATGACAAGCAGCCACTGACCAGCAAAG
 AGGAGGAGGAGAGGCGCATTGCAGAAAATGGGGCGCCCCATTCTAGGCGAACACACCAAGCTGGAAGTGT
 CATTGAAGAGTCTTACGAATTCAGAGCACTGTGGACAACTCATTAGAAGACGAACCTGGCCCTCGTG
 GTGGGGACCAACAGCTGGAGAGAGCAGTTCATTGAAGCGATCACCGTCAGCGCTGGGGAAGATGACGATG
 ATGATGAATGTGGGGAGGAGAAGCTGCCCTCCTGTTTGTGATTACGTGATGCATTTCTCACAGTGTCTG
 GAAGGTTCTGTTTGCCTTCGTCACCTACAGAATATTGGAATGGCTGGGCTGCTTCAATGCTCCATC
 CTATGATCGGCCCTACTGACAGCCTTCAATGGAGATCTGGCTTCCCACTTTGGCTGCACCATTTGGTCTGA
 AAGATTCCGTGACTGCAGTTGTGTTGTGCTCTTGGAACTCAGTGCCAGACACATTTGCCAGCAAAGT
 AGCAGCTACCCAGGACAGTATGCAGATGCGTCCATAGGCAATGTACCAGGAAGCAACGCTGTGAATGTC
 TTCCTGGGAATCGGCGTGGCCTGGTCCATTGCTGCCATCTACCATGCGGCCAACGGGAACAGTTCAAAG
 TGTCCCTGGCACGCTAGCTTCTGTCACTCTTCCACATTTTGTCTTCAACGTGGGGGTGCT
 GCTGTATCGGCGGAGGCCAGAAATAGGAGGTGAGCTGGTGGGCCCGGACTGCCAAGCTCCTCACATCT
 TCCCTGTTGTGCTCCTGTGGCTCTGTACATTTCTTCTCCTCCCTGGAGGCCTACTGCCACATAAAAG
 GCTT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN:	NM_001270772
Insert Size:	2808 bp
OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001270772.1</u> , <u>NP_001257701.1</u>
RefSeq Size:	6134 bp
RefSeq ORF:	2808 bp
Locus ID:	29715
UniProt ID:	<u>Q01728</u>
Cytogenetics:	6q12
Gene Summary:	<p>displays Na⁺ gradient-dependent Ca²⁺ transport activity; plays a role in regulation of calcium ion transport [RGD, Feb 2006]</p> <p>Transcript Variant: This variant (2) lacks three alternate in-frame exons compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p> <p>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>