

Product datasheet for **RN217346**

Slc8a1 (NM_001270773) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc8a1 (NM_001270773) 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: >RN217346 representing NM_001270773
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTTCGACTAAGTCTCCACCCAATGTTTCAATGGGATTTCTGCTGGTAACTCTGGTGGCTCTCTTGT
 TTACCCATGTTGACCATATAACTGCAGATACAGAGGCAGAAACAGGAGGAAATGAAACCACTGAATGTAC
 TGGCTCATATTACTGTAAGAAAGGGGTGATTCTGCCATTTGGGAACCCCAAGACCCATCTTTTGGGGAT
 AAAATTGCTAGAGCAACTGTGTATTTGTGGCCATGGTCTACATGTTCTCGGAGTTTCTATTATTGCCG
 ACCGGTTTATGCTCTATAGAAGTCACTACCTCTCAAGAAAAGGAGATTACCATAAAGAAACCAATGG
 AGAGACCACCAAGACTACAGTGCATCTGGAATGAGACTGTGTCCAACCTGACCTTGATGGCCCTGGGA
 TCTTCCGCTCCTGAGATTCTCTGTCTGTCATTGAAGTGTGTGCCATAACTTACCAGCAGGGGACCTTG
 GTCCAGCACCATTGTGGGAAGCGCCCTTCAACATGTTTCACTCATCATCGCGCTTGTGTTTATGTGGT
 CCCAGATGGAGAGACGAGGAAGATTAACATCTGCGTGTGTTCTTTGTGACAGCAGCCTGGAGCATCTTT
 GCCTATACCTGGCTTTACATAATTTTGTCTGTGACTCTCCTGGTGTCTGGAGGTCTGGGAAGGATTAC
 TCACTTTCTTCTTTCCCATCTGTGTTGTGTTGCTTGGGTTGCAGACAGGCGCTTCTCTTTTACAA
 GTATGTCTACAAGCGGTACAGGGCTGGCAAGCAGAGGGGGATGATCATTGAACATGAAGGAGACAGACCA
 GCTTCCAAAACCTGAAATTTGAAATGGATGGGAAAGTAGTCAACTCCACGTTGACAATTTCTTAGATGGCG
 CTCTGGTTTTGGAAGTCGATGAGAGGGACCAAGATGACGAGGAAGCCAGGCGTGAGATGGCAAGGATTCT
 GAAGGAACTTAAGCAGAAGCATCCCGACAAAGAGATCGAACAATTAATAGAATTAGCCAATATCAAGTC
 CTAAGTCAGCAGCAAAAGAGCCGAGCATTACCGAATTCAAGCTACTCGCTGATGACTGGAGCTGGTA
 AGATTTTGAAGAGGCATGCAGTGACCAAGCGAGGAAGGCTGTCAGCATGCATGAAGTCAACATGGATG
 GGTTGAAAATGACCCAGTCAGTAAGGTCTTTTGTGAGCAAGGGACATACCAGTGTCTAGAAAACCTGTGGT
 ACTGTGGCCCTCACCATATTTCGAAGAGGGGTGACTTGACCAACTGTGTTTGTGACTTCAGGACGG
 AAGATGGCACAGCCAATGCTGGGTCTGATTATGAGTTCACGGAAGGGACTGTGATCTTCAAACCTGGGGA
 GACCCAGAAGGAAATCAGAGTTGGCATCATTGATGATGATATCTTTGAAGAAGATGAAAACCTTTCTGTG
 CATCTTAGCAACGTCAGGGTCTCTTCAGAAGTCTCGGAAGATGGCATACTAGACTCCAATCACGTGTCTG
 CGATTGCTGTCTCGGTACCCAACTGCCACCATAACCATTTTGTGATGACCACGCGGGCATCTT
 TACTTTGAGGAACCCGTGACTCACGTGAGCGAGAGCATTGGCATCATGGAGGTGAAGGTCTGAGAACC
 TCTGGAGCGGAGGAAATGTTATCATTCCCTATAAAACCTTGAAGGCACAGCCGAGGTGGAGGGGAGG
 ACTTTGAGGACACCTGTGGAGAGCTGGAATCCAGAATGATGAAATAGTGAAGATCATTACCATTAGAAT
 ATTTGACCGTGAGGAATATGAGAAAGAGTGCAGTTTCTCCCTTGTGCTTGAGGAACCAAAATGGATAAGA
 AGAGGAATGAAAGGTGGCTTACATTAACAGAGGAGTACGATGACAAGCAGCCACTGACCAGCAAAGAGG
 AGGAGGAGAGGCGCATTGCAGAAATGGGGCGCCCATTTAGGCGAACACACCAAGCTGGAAGTGATCAT
 TGAAGAGTCTTACGAATCAAGAGCACTGTGGACAACTCATTAGAAGACGAACCTGGCCCTCGTGGT
 GGGACCAACAGCTGGAGAGAGCAGTTTATTGAAGCGATCACCGTCAGCGCTGGGAAGATGACGATGATG
 ATGAATGTGGGGAGGAGAAGCTGCCCTCCTGTTTTGATTACGTGATGACTTTCTCACAGTGTCTGGAA
 GGTTCTGTTTTGCTTTCGTCACCTACAGAATTTGGAATGGCTGGGCTGCTTCAATGTCTCCATCCCT
 ATGATCGGCTACTGACAGCCTTCAATGGAGATCTGGCTTCCACTTTGGCTGCACCATTTGGTCTGAAAG
 ATTCCGTGACTGCAGTTGTGTTTGTGCTCTTGGAACTCAGTGCCAGACACATTTGCCAGCAAAGTAGC
 AGCTACCCAGGACCAGTATGCAGATGCGTCCATAGGCAATGTACCAGCAACGCTGTGAATGTCTTCC
 CTGGGAATCGGCGTGGCCTGGTCCATTGCTGCCATCTACCATGCGGCCAACGGGGAACAGTTCAAAGTGT
 CCCCTGGCAGCTAGCTTTCTGTCTCTCTTACCATTTTGTCTTTCATCAACGTGGGGGTGCTGCT
 GTATCGGCGGAGGCCAGAAATAGGAGGTGAGCTGGTGGGCCCGGACTGCCAAGCTCCTCACATCTTCC
 CTGTTTGTCTCTGTGGCTCTGTACATTTTCTTCTCCTCCCTGGAGGCTACTGCCACATAAAAGGCT
 TCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN:	NM_001270773
Insert Size:	2805 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_001270773.1</u> , <u>NP_001257702.1</u>
RefSeq Size:	6131 bp
RefSeq ORF:	2805 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 (3) contains an alternate second exon and lacks three alternate in-frame exons compared to variant 1. The resulting isoform (3) 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>