

Product datasheet for **RN217362**

Slc8a1 (NM_001270775) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc8a1 (NM_001270775) 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:

>RN217362 representing NM_001270775

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCTTCGACTAAGTCTCCACCCAATGTTTCAATGGGATTTCTGTCGGTAACTCTGGTGGCTCTCTTGT
TTACCCATGTTGACCATATAACTGCAGATACAGAGGCAGAAACAGGAGGAAATGAAACCACTGAATGTAC
TGGCTCATATTACTGTAAGAAAGGGGTGATTCTGCCATTTGGGAACCCCAAGACCCATCTTTTGGGGAT
AAAATTGCTAGAGCAACTGTGTATTTGTGGCCATGGTCTACATGTTCTCGGAGTTTCTATTATTGCCG
ACCGGTTTATGTCCTCTATAGAAGTCAACCTCTCAAGAAAAGGAGATTACCATAAAGAAACCAATGG
AGAGACCACCAAGACTACAGTGCATCTGGAATGAGACTGTGTCCAACCTGACCTTGATGGCCCTGGGA
TCTTCCGCTCCTGAGATTCTCTGTCTGTCAATTGAAGTGTGTGCCATAACTTCACCGCAGGGGACCTTG
GTCCAGCACCATTGTGGGAAGCGCCCTTCAACATGTTTCATCATCATCGCGCTTGTGTTTATGTGGT
CCCAGATGGAGAGACGAGGAAGATTAACATCTGCGTGTGTTCTTTGTGACAGCAGCCTGGAGCATCTTT
GCCTATACCTGGCTTTACATAATTTTGTCTGTCAAGCTCTCTGTTGTCTGGAGGTCTGGGAAGGATTAC
TCACTTTCTTCTTCTTCCCATCTGTGTTGTGTTGCTTGGGTTGCAGACAGGCGCTTCTCTTTTACAA
GTATGTCTACAAGCGGTACAGGGCTGGCAAGCAGAGGGGGATGATCATTGAACATGAAGGAGACAGACCA
GCTTCCAAAACCTGAAATGAAATGGATGGGAAAGTAGTCAACTCCACGTTGACAATTTCTTAGATGGCG
CTCTGGTTTTGGAAGTCGATGAGAGGGACCAAGATGACGAGGAAGCCAGGCGTGAGATGGCAAGGATTCT
GAAGGAACTTAAGCAGAAGCATCCCGACAAAGAGATCGAACAATTAATAGAATTAGCCAATATCAAGTC
CTAAGTCAGCAGCAAAAGAGCCGAGCATTACCGAATTCAAGCTACTCGCTGATGACTGGAGCTGGTA
AGATTTTGAAGAGGCATGCAGTGACCAAGCGAGGAAGGCTGTGAGCATGCATGAAGTCAACATGGATG
GTTTGAAAATGACCCAGTCAGTAAGGTCTTCTTTGAGCAAGGGACATACCAAGTGTCTAGAAAACCTGTGGT
ACTGTGGCCCTCACCAATTATTCGAAGAGGGGTGACTTGACCAACTGTGTTTGTGACTTCAGGACGG
AAGATGGCACAGCCAATGCTGGGTCTGATTATGAGTTCACGGAAGGGACTGTGATCTTCAAACCTGGGGA
GACCCAGAAGGAAATCAGAGTTGGCATCATTGATGATGATATCTTTGAAGAAGATGAAAACCTTCTGTG
CATCTTAGCAACGTCAGGGTCTCTTTCAGAACTCTCGGAAGATGGCATACTAGACTCCAATCACGTGTCTG
CGATTGCTGTCTCGGGTACCCAACTGCCACCATAACCAATTTTGTGATGACCACGCGGGCATCTT
TACTTTGAGGAACCCGTGACTCACGTGAGCGAGAGCATTGGCATCATGGAGGTGAAGGTCTGAGAACC
TCTGGAGCGGAGGAAATGTTATCATTCCCTATAAAACCAATTGAAGGCACAGCCGAGGTGGAGGGGAGG
ACTTTGAGGACACCTGTGGAGAGCTGGAATCCAGAATGATGAAATAGTGAAGATCATTACCATTAGAAT
ATTTGACCGTGAGGAATATGAGAAAGAGTGCAGTTTTCTCCCTTGTGCTTGAGGAACCAAAATGGATAAGA
AGAGGAATGAAAGGTGGCTTACATTAACAGGCCAACCTGTCTTTCAGGAAGGTCCATGCTAGAGATCATC
CGATTCCTCTACCGTAATCAGCATTTCAGAGGAGTACGATGACAAGCAGCCACTGACCAGCAAAGAGGA
GGAGGAGAGGCGCATTGCAGAAATGGGGCGCCCATTTAGGCGAACACACCAAGCTGGAAGTGATCATT
GAAGAGTCTTACGAATTCAGAGCACTGTGGACAACTCATTAGAAGACGAACCTGGCCCTCGTGGTGG
GGACCAACAGCTGGAGAGAGCAGTTCATTGAAGCGATCACCGTCAAGGCTGGGGAAGATGACGATGATGA
TGAAATGTGGGGAGGAGAAGCTGCCCTCCTGTTTTGATTACGTGATGCACCTTCTCACAGTGTCTGGAAG
GTTCTGTTTGCCTTCGTCCACCTACAGAATATTGGAATGGCTGGGCCTGCTTATTGTCTCCATCCTCA
TGATCGGCCTACTGACAGCCTTATTGGAGATCTGGCTTCCCACTTTGGCTGCACCATTGGTCTGAAAGA
TTCCGTGACTGCAGTTGTGTTTGTGCTCTTGGAACTCAGTGCCAGACACATTTGCCAGCAAAGTAGCA
GCTACCCAGGACCAGTATGCAGATGCGTCCATAGGCAATGTACCAGGAAGCAACGCTGTGAATGTCTTCC
TGGGAATCGGCGTGGCCTGGTCCATTGCTGCCATCTACCATGCGGCCAACGGGGAACAGTCAAAGTGTG
CCCTGGCAGCTAGCTTTCTGTCACTCTCTTACCATTTTGTCTTTCATCAACGTGGGGGTGCTGCTG
TATCGGCGGAGGCCAGAAATAGGAGGTGAGCTGGGTGGGCCCGGACTGCCAAGCTCCTCACATCTTCCC
TGTTTGTGCTCCTGTGGCTCTTGTACATTTTCTCTCCTCCCTGGAGGCCTACTGCCACATAAAAGGCTT
CTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001270775
Insert Size:	2874 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_001270775.1</u> , <u>NP_001257704.1</u>
RefSeq Size:	6200 bp
RefSeq ORF:	2874 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 (5) contains an alternate second exon and lacks two alternate in-frame exons compared to variant 1. The resulting isoform (5) 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>