

Product datasheet for **RN217373**

Slc8a1 (NM_001270779) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc8a1 (NM_001270779) 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:

>RN217373 representing NM_001270779

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCTTCGACTAAGTCTCCACCCAATGTTTCAATGGGATTTCTGCTGGTAACTCTGGTGGCTCTCTTGT
TTACCCATGTTGACCATATAACTGCAGATACAGAGGCAGAAACAGGAGGAAATGAAACCACTGAATGTAC
TGGCTCATATTACTGTAAGAAAGGGGTGATTCTGCCATTTGGGAACCCCAAGACCCATCTTTTGGGGAT
AAAATTGCTAGAGCAACTGTGTATTTGTGGCCATGGTCTACATGTTCTCGGAGTTTCTATTATTGCCG
ACCGGTTTATGTCCTCTATAGAAGTCACTACCTCTCAAGAAAAGGAGATTACCATAAAGAAACCAATGG
AGAGACCACCAAGACTACAGTGCATCTGGAATGAGACTGTGTCCAACCTGACCTTGATGGCCCTGGGA
TCTTCCGCTCCTGAGATTCTCTGTCTGTCATTGAAGTGTGTGCCATAACTCACCGCAGGGGACCTTG
GTCCAGCACCATTGTGGGAAGCGCCCTTCAACATGTTTCATCATCATCGCGCTTGTGTTTATGTGGT
CCCAGATGGAGAGACGAGGAAGATTAACATCTGCGTGTGTTCTTTGTGACAGCAGCCTGGAGCATCTTT
GCCTATACCTGGCTTTACATAATTTTGTCTGTGAGCTCTCTGGTGTCTGGAGGTCTGGGAAGGATTAC
TCACTTTCTTCTTTCCCATCTGTGTTGTGTTGCTTGGGTTGCAGACAGGCGCTTCTCTTTTACAA
GTATGTCTACAAGCGGTACAGGGCTGGCAAGCAGAGGGGGATGATCATTGAACATGAAGGAGACAGACCA
GCTTCCAAAACCTGAAATTTGAAATGGATGGGAAAGTAGTCAACTCCACGTTGACAATTTCTTAGATGGCG
CTCTGGTTTTGGAAGTCGATGAGAGGGACCAAGATGACGAGGAAGCCAGGCGTGAGATGGCAAGGATTCT
GAAGGAACTTAAGCAGAAGCATCCCGACAAAGAGATCGAACAATTAATAGAATTAGCCAATATCAAGTC
CTAAGTCAGCAGCAAAAGAGCCGAGCATTACCGAATTCAAGCTACTCGCTGATGACTGGAGCTGGTA
ACATTTTGAAGAGGCATGCAGTGACCAAGCGAGGAAGGCTGTCAGCATGCATGAAGTCAACATGGATG
GGTTGAAAATGACCCAGTCAGTAAGGTCTTTTGGCAAGGGACATACCAGTGTCTAGAAAACCTGTGGT
ACTGTGGCCCTCACCATTTTCGAAGAGGGGTGACTTGACCAACTGTGTTTGTGACTTCAGGACGG
AAGATGGCACAGCCAATGCTGGGTCTGATTATGAGTTCACGGAAGGGACTGTGATCTTCAAACCTGGGGA
GACCCAGAAGGAAATCAGAGTTGGCATCATTGATGATGATATCTTTGAAGAAGATGAAAACCTTTCTGTG
CATCTTAGCAACGTCAGGGTCTCTTTCAGAAGTCTCGGAAGATGGCATACTAGACTCCAATCACGTGTCTG
CGATTGCTGTCTCGGTCACCCAACACTGCCACCATAACCATTTTTGATGATGACCACGCGGCATCTT
TACTTTTCGAGAACCCGTGACTCACGTGAGCGAGAGCATTGGCATCATGGAGGTGAAGGTCTGAGAACC
TCTGGAGCGGAGGAAATGTTATCATTCCCTATAAAACCATTTGAAGGCACAGCCGAGGTGGAGGGGAGG
ACTTTGAGGACACCTGTGGAGAGCTGGAATTCAGAATGATGAAATAGTCAAACAATATCAGTCAAGGT
AATCGATGACGAGGAGTATGAGAAAAACAAGACCTTCTTCATTGAGATTGGAGAACCCCGTCTGGTGGAG
ATGAGTGAGAAGAAAGCCCTGTTGTTAAATGAGCTTGGTGGCTTACATTAACAGGCCAACCTGTCTTCA
GGAAGGTCCATGCTAGAGATCATCCGATTCCTCTACCGTAATCAGCATTTCAGAGGAGTACGATGACAA
GCAGCCACTGACCAGCAAAGAGGAGGAGGAGGCGCATTGCAGAAATGGGGCGCCCCATTTAGGCGAA
CACACCAAGCTGGAAGTGATCATTGAAGAGTCTTACGAATTCAAGAGCACTGTGGACAAACTCATTAAAG
AGACGAACCTGGCCCTCGTGGTGGGACCAACAGCTGGAGAGAGCAGTTCATTGAAGCGATCACCGTCAG
CGCTGGGGAAGATGACGATGATGATGAATGTGGGAGGAGAAGCTGCCCTCCTGTTTTGATTACGTGATG
CACTTTCTCACAGTGTTCTGGAAGTCTGTTTGCCTTCGTCACCTACAGAATATTGGAATGGCTGGG
CCTGCTTCATTGTCTCCATCCTCATGATCGGCCTACTGACAGCCTTATTGGAGATCTGGCTTCCCACTT
TGGCTGCACCATTTGGTCTGAAAGATTCCGTGACTGCAGTTGTGTTTGTGCTCTTGGAACTCAGTGCCA
GACACATTTGCCAGCAAAGTAGCAGCTACCCAGGACCAGTATGCAGATGCGTCCATAGGCAATGTACCCG
GAAGCAACGCTGTGAATGTCTTCTGGGAATCGGCGTGGCCTGGTCCATTGCTGCCATCTACCATGCGGC
CAACGGGGAACAGTTCAAAGTGTCCCCTGGCACGCTAGCTTTCTCTGCTACTCTTCCACATTTTGTCT
TTCATCAACGTGGGGGTGCTGCTGTATCGGCGGAGGCCAGAAATAGGAGGTGAGCTGGGTGGCCCCGGA
CTGCCAAGCTCCTCACATCTTCCCTGTTTGTGCTCCTGTGGCTTGTACATTTTCTTCTCCTCCCTGGA
GGCCTACTGCCACATAAAAGGCTTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001270779
Insert Size:	2898 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_001270779.1</u> , <u>NP_001257708.1</u>
RefSeq Size:	6224 bp
RefSeq ORF:	2898 bp
Locus ID:	29715
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 (9) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (9) 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>