

Product datasheet for **RN217371**

Slc8a1 (NM_001270778) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc8a1 (NM_001270778) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc8a1
Synonyms:	Ncx; Ncx1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>RN217371 representing NM_001270778

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCTTCGACTAAGTCTCCACCCAATGTTTCAATGGGATTTCTGCTGGTAACTCTGGTGGCTCTCTTGT
TTACCCATGTTGACCATATAACTGCAGATACAGAGGCAGAAACAGGAGAAATGAAACCACTGAATGTAC
TGGCTCATATTACTGTAAGAAAGGGGTGATTCTGCCATTTGGGAACCCCAAGACCCATCTTTGGGGAT
AAAATTGCTAGAGCAACTGTGTATTTGTGGCCATGGTCTACATGTTCTCGGAGTTTCTATTATTGCCG
ACCGGTTTATGCTCTATAGAAGTCACTACCTCTCAAGAAAAGGAGATTACCATAAAGAAACCAATGG
AGAGACCACCAAGACTACAGTGCATCTGGAATGAGACTGTGTCCAACCTGACCTTGATGGCCCTGGGA
TCTTCCGCTCCTGAGATTCTCTGTCTGTCATTGAAGTGTGTGCCATAACTTCACCGCAGGGGACCTTG
GTCCAGCACCATTGTGGGAAGCGCCCTTCAACATGTTTCATCATCATCGCGCTTGTGTTTATGTGGT
CCCAGATGGAGAGACGAGGAAGATTAACATCTGCGTGTGTTCTTTGTGACAGCAGCCTGGAGCATCTTT
GCCTATACCTGGCTTTACATAATTTGTCTGTGACTCTCCTGGTGTCTGGAGGTCTGGGAAGGATTAC
TCACTTTCTTCTTTCCCATCTGTGTTGTGTTGCTTGGGTTGCAGACAGGCGCTTCTCTTTACAA
GTATGTCTACAAGCGGTACAGGGCTGGCAAGCAGAGGGGGATGATCATTGAACATGAAGGAGACAGACCA
GCTTCCAAAACCTGAAATGAAATGGATGGGAAAGTAGTCAACTCCACGTTGACAATTTCTTAGATGGCG
CTCTGGTTTTGGAAGTCGATGAGAGGGACCAAGATGACGAGGAAGCCAGGCGTGAGATGGCAAGGATTCT
GAAGGAACTTAAGCAGAAGCATCCCGACAAAGAGATCGAACAATTAATAGAATTAGCCAATATCAAGTC
CTAAGTCAGCAGCAAAAGAGCCGAGCATTACCGAATTCAAGCTACTCGCTGATGACTGGAGCTGGTA
ACATTTTGAAGAGGCATGCAGTGACCAAGCGAGGAAGGCTGTCAGCATGCATGAAGTCAACATGGATG
GGTTGAAAATGACCCAGTCAGTAAGGTCTTCTTTGAGCAAGGGACATACCAGTGTCTAGAAAACCTGTGGT
ACTGTGGCCCTCACCAATTATTCGAAGAGGGGTGACTTGACCAACTGTGTTTGTGACTTCAGGACGG
AAGATGGCACAGCCAATGCTGGGTCTGATTATGAGTTCACGGAAGGGACTGTGATCTTCAAACCTGGGGA
GACCCAGAAGGAAATCAGAGTTGGCATCATTGATGATGATATCTTTGAAGAAGATGAAAACCTTCTGTG
CATCTTAGCAACGTCAGGGTCTCTTCAGAAGTCTCGGAAGATGGCATACTAGACTCCAATCACGTGTCTG
CGATTGCTGTCTCGGTACCCAACTGCCACCATAACCAATTTTGTGATGACCACGCGGCATCTT
TACTTTGAGGAACCCGTGACTCACGTGAGCGAGAGCATTGGCATCATGGAGGTGAAGGTCTGAGAACC
TCTGGAGCGGAGGAAATGTTATCATTCCCTATAAAACCAATTGAAGGCACAGCCGAGGTGGAGGGGAGG
ACTTTGAGGACACCTGTGGAGAGCTGGAATCCAGAATGATGAAATAGTGAAGATCATTACCATTAGAAT
ATTTGACCGTGAGGAATATGAGAAAGAGTGCAGTTTTCTCCCTTGTGCTTGAGGAACCAAAATGGATAAGA
AGAGGAATGAAAGCCCTGTTGTTAAATGAGCTTGGTGGCTTACATTAACAGGCCAACCTGTCTTCAGGA
AGGTCCATGCTAGAGATCATCCGATTCCTCTACCGTAATCAGCATTTACAGAGGAGTACGATGACAAGCA
GCCACTGACCAGCAAAGAGGAGGAGGAGGCGCATTGCAGAAATGGGGCGCCCCATTCTAGCGCAACAC
ACCAAGCTGGAAGTGATCATTGAAGAGTCTTACGAATTCAGAGCACTGTGGACAACTCATTAGAAGA
CGAACCTGGCCCTCGTGGTGGGACCAACAGCTGGAGAGAGCAGTTCATTGAAGCGATCACCGTCAGCGC
TGGGGAAGATGACGATGATGATGAATGTGGGAGGAGAAGCTGCCCTCCTGTTTTGATTACGTGATGCAC
TTTCTCACAGTGTCTGGAAGTTCTGTTTGCCTTCGTCCACCTACAGAATATTGGAATGGCTGGGCCT
GCTTCATTGTCTCCATCCTCATGATCGGCCTACTGACAGCCTTATTGGAGATCTGGCTTCCCACTTTGG
CTGCACCATTTGGTCTGAAAGATTCGCTGACTGCAGTTGTGTTTGTGCTCTTGGAACTCAGTGCCAGAC
ACATTTGCCAGCAAAGTAGCAGTACCCAGGACCAGTATGCAGATGCGTCCATAGGCAATGTCACCGGAA
GCAACGCTGTGAATGCTTCTGGGAATCGGCGTGGCCTGGTCCATTGCTGCCATCTACCATGCGGCCAA
CGGGGAACAGTTCAAAGTGTCCCTGGCAGCTAGCTTCTGTCACTCTTCCACATTTTGTCTTTC
ATCAACGTGGGGTGTGCTGTATCGGCGGAGGCCAGAAATAGGAGGTGAGCTGGTGGGCCCGGACTG
CCAAGCTCCTCACATCTCCCTGTTTGTGCTCCTGTGGCTTGTACATTTTCTTCTCCTCCCTGGAGGC
CTACTGCCACATAAAAGGCTTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001270778
Insert Size:	2895 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_001270778.1</u> , <u>NP_001257707.1</u>
RefSeq Size:	6221 bp
RefSeq ORF:	2895 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 (8) contains an alternate second exon and lacks an alternate in-frame exon compared to variant 1. The resulting isoform (8) 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>