

## Product datasheet for **RN208988**

### **Slc8a2 (NM\_078619) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc8a2 (NM_078619) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc8a2
Synonyms:	Ncx2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN208988 representing NM\_078619  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTCCCTTGCTTTGGTAGGGTTGCCTCCTTCTGGGGCACCCCACTGCTTGGGGGAAGCTACTC  
 CGACCCCATCCCTGCCACCTCCCCAGCTAATGACAGCGATGCCAGCCAGGCGGCTGCCAAGTTCCCTA  
 CCGCTGCCAACCAAGGGTGTGCTGCTGTGTGGGAACCCGACGACCCATCACTGGGGGACAAGGCTGCA  
 CGGGCCGTGGTGTACTTTGTGGCCATGGTCTACATGTTCTTGGGTCTGTCTATCATTGCTGATCGTTTTA  
 TGGCATCCATTGAGGTCAACATCCAAGGAGAAAGAGATCACCATCACCAAGGCAAATGGGGAGACCAG  
 CGTGGGCACTGTACGCATCTGGAATGAAACGGTGTCCAACCTTACTCATGGCCCTGGGCTCCTCAGCA  
 CCTGAGATTCTGTGTCTGTATCGAGGCTGTGGCCACAACCTCCAGGCGGGTGTAGCTAGGCCAGGCA  
 CCATCGTGGGCAGTGGCCCTTCAACATGTTTGGTCTTCTCGTACAGCCTCTGGAGCATCTTGGCTATGTC  
 TGAGAGCCGTAAGATCAAGCACTTAAGGGTCTTCTCGTACAGCCTCTGGAGCATCTTGGCTATGTC  
 TGGCTTTATCTATTCTAGCAGTTTTCTCCAGGCGTGGTCCAGGTGTGGGAGGCACTGCTCACGCTGG  
 TCTTCTCCCGGTGTGTGTGGTGTTCGCCTGGATGGCGGACAAGCGACTGCTCTTCTACAAGTACGTGTA  
 CAAGCGCTATCGCACCGACCTCGCAGCGGAATCATCATCGGGGACAGGGGAGACCCGCCAAGAGCATC  
 GAGCTGGATGGCACATTCGTGGGCACTGAGGTCCAGGCGAGCTGGGTGCATTGGGCACAGGTCCCCTG  
 AGGCGCGTGAGCTGGACGCCAGCCGGCGGAGGTCCAGATTCTTAAGGACTTAAAGCAGAAGCACCC  
 GGATAAGGACCTGGAGCAGCTGGTGGGCATCGCCAAGTACTATGCACTGCTGCACCAGCAGAAGAGCCGT  
 GCCTTCTACCGCATCCAGGCCACGCGCTGATGACAGGTGCGGGCAACGTGCTGCCCGACACGCTGCGG  
 ATGCTGCCCGCAGGCTGGGGCCAACGATGGTCCCCCGATGATGAGGACGATGGTGGCAGCCGATCTT  
 CTTTGAGCCAGCCTCTACCACTGCCTGGAGAACTGCGGGTCAAGTGTGCTGTGCGGTGGCTTGGCAGGGT  
 GGTGAGGGCAACAGCACCTTCTACGTGGATTACCGCACGAGGATGGCTCTGCAAAGGCAGGCTCCGATT  
 ATGAGTACAGCGAGGGCACGCTGGTGTCAAGCCGGGGAGACGCAAGGAGCTGCGCATCGGCATCAT  
 CGACGACGACATCTCGAGGAGGACGAGCACTTCTCGTGGGCTGCTGAACCTGCGTGTGGGCGATGCT  
 CAGGGCATGTTGAGCCGACGGCGGTGGGCGGCCAAGGGGCGGCTGGTGGCGCCACTGCTGGCCACCG  
 TCACCATCTGGACGACGACCACGCGGCATCTTCTCTCCAGGACCGCTGCTGCATGTGAGCGAGTG  
 CATGGGCACCGTGGATGTGCGTGTGGTGGCAGCTCTGGCGCACGTGGCACCGTACGCTTCCCTACCGC  
 ACAGTGGACGGCACGGCTCGTGGTGGTGTGCACTACGAGGATGCTTGTGGAGAGCTGGAGTTCCGGC  
 ATGACGAGACCATGAAGACTCTTCAGGTCAAGATAGTGGACGACGAAGATATGAGAAGAAGGACAACCT  
 TTTCATCGAGCTGGGCCAGCCCCAGTGGCTTAAGCGGGGCATCTCAGCTCTGCTACTCAACCAAGGGGAT  
 GGAGACAGGAAGCTGACTGCAGAGGAGGAGGAGGCCAGAGGATAGCAGAGATGGGCAAGCCAGTTCTTG  
 GGGAGAAGTGTGCGCTCGAGGTCAATCGAGGAGTCTTATGACTTTAAGAATACGGTGGATAAACTCAT  
 AAAGAAAACAACTGGCCTTGGTATTGGGACCCACTCATGGAGGGAGCAGTTTTTAGAGGCAGTTACA  
 GTGAGCGCAGGGGACGAGGAGGAGGATGAGGATGGGTCTCGTGGAGGCGGCTGCCATCTGCTTTGACT  
 ACGTGTGCACTTCTGACGGTGTCTGAAAGTCTGTTGCGCTGCCTCCACCCACGGAGTACTGCCA  
 TGGCTGGGCTGCTTTGGTGTCTGCATCCTGGTATTGGTCTGCTCACTGCCCTCATCGGAGACCTGGCC  
 TCACACTTTGGGTGCACCGTGGGCTCAAGGACTCAGTCAACGCGTGGTCTTCTGGTCTGCGCACCT  
 CCATCCCTGACACGTTTGCAGCAAGGTGGCCGCGCTGCAGGACAGTGCGCCGACGCGTCCATCGGTAA  
 CGTGACCGGCTCCAATGCGGTGAACGTGTTCTGGGCTGGGTGTGGCCTGGTGGTGGCCGAGTGTAC  
 TGGGCGGTGCAGGGTCCGCCCTTCGAGGTGCGTACAGGCACGCTGGCCTTCTCGGTACACTGTTACCG  
 TCTTCCGCTTCTGGGCATCGCAGTGTCTTGTACCGGCGCCGGCCACACATCGGCGGCGAGCTGGGCGG  
 CCCGCGGGGACCAAGCTAGCCACCACCGCTCTTCTGGGCTCTGGTCTCTACATTCTCTTCGCC  
 AGCCTGGAGGCTTATTGCCACATTCGGGGCTTC**TAG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2653\\_a02.zip](https://cdn.origene.com/chromatograms/ja2653_a02.zip)

<b>Restriction Sites:</b>	Sgfl-RsrII
<b>ACCN:</b>	NM_078619
<b>Insert Size:</b>	2766 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_078619.1</a> , <a href="#">NP_511174.1</a>
<b>RefSeq Size:</b>	3004 bp
<b>RefSeq ORF:</b>	2766 bp
<b>Locus ID:</b>	140447
<b>UniProt ID:</b>	<a href="#">P48768</a>
<b>Cytogenetics:</b>	1q21
<b>Gene Summary:</b>	isoform 2 of sodium/calcium exchanger; regulates intracellular calcium levels and maintains calcium homeostasis; may be important for the control of synaptic plasticity [RGD, Feb 2006]