

## Product datasheet for **RN209297**

### **Slc11a2 (NM\_013173) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc11a2 (NM_013173) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc11a2
Synonyms:	Dmt1; Nramp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >RN209297 representing NM\_013173  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTGTGGATCCTGAAGAAAAGATTCAGACGATGGTGCTTCTGGGGACCATGGAGACTCGGCCAGCC  
 TCGGTGCCATCAACCCTGCTTACAGCAACTCTTCCTCCACATTCCACCGGGGATTCTGAGGAGCCCTT  
 CACCACCTACTTTGATGAGAAAATCCCCATTCTGAGGAGGAGTACTCTTGTTTTAGTTCCGTAAACTC  
 TGGGCCTTACAGGACCTGGTTTTCTTATGAGCATTGCCTACCTGGATCCAGGAAACATTGAATCTGATT  
 TACAGTCTGGAGCAGTGGCTGGATTTAAGTTGCTCTGGGTGCTCCTGCTGGCCACTATTGTGGGCTGCT  
 GCTCCAGCGTCTCGCAGCTCGACTGGGAGTGGTACCAGGCTTGCACCTTCTGAAAGTGTGCACCGTCAG  
 TATCCAAAGTCCACGGATCATCTGTGGCTAATGGTGGAGTTGGCAATCATTGGTTCTGATATGCAGG  
 AAGTCATTGGCTCAGCCATCGCCATCAATCTCCTGTCTGCCGGAAGGGTCCCCTGTATGGTGGAGTCT  
 CATCACCATCGCAGATACTTTTGTATTTCTCTTTTGGACAAATATGGCTTGCAGGAGCTGGAAGCATT  
 TTTGGCTTCTCATCACTATCATGGCCCTCACATTTGGATATGAGTATGTTACAGTGAAACCCAGCCAAA  
 GCCAAGTACTCAGGGCATGTTCTGTCATCCTGTTCCAGGCTGCCACACCCCTCAGTGGAGCAGGCCGT  
 GGGCATCGTGGGAGCTGTGATCATGCCACACAACATGTACCTGCACTCTGCCTTAGTCAAGTCTAGACAA  
 GTGAACCGGGCCAATAAGCAGGAAGTTCGAGAAGCCAATAAGTACTTCTTCATCGAGTCTGCAATGGAC  
 TCTTTGTTTCTTCATCATCAATGTCTTTGTCGCTCCGCTTTTGGTGAAGCATTTTTGAGAAAACCAA  
 TGAGCAGGTGGTTGAGGTCTGCAGAAATAGCAGCAGCCCCATGCTGACCTTTTCTAACGACAACCTCT  
 ACCCTGGCTGTGGACATCTACAAAGGGGTGTTGTGCTTGGATGTTACTTCGGGCCTGCGGCCCTTACA  
 TCTGGCGGTGGGATCCTGGCTGTGGACAGAGCTCCACCATGACTGGAACCTATTCTGGCCAGTTTGT  
 CATGGAGGGATTCTGAACCTAAAATGGTCGCGCTTTGCCCGCTGATCCTGACCAGGTCTATTGCCATC  
 ATCCCTACCCTGCTTGTGCTTCCAAAGATGTGGAGCATCTGACAGGGATGAATGATTTCTGAATG  
 TTCTGCAGAGCCTACAGTCCCCTTTGCCCTCATCCCTATCCTCACCTTCACAAGCCTGCGGCCAGTGAT  
 GAGTGAGTTCTCAACGGAATAGGCTGGAGGATCGCAGGCGGCATCTTGGTCTTCTCGTCTGCTCCATC  
 AACATGTACTTTGTCGTGGTCTACGTCCAGGAGCTAGGGCATGTGGCACTGTATGGTGGCTGCAGTGG  
 TTAGCGTGGCTTATCTGGGCTTTGTGTTCTACTGGGTTGGCAGTGTGATTGCGTTGGGCTGCTGTT  
 CCTGGACTGTGGCGCTCGTAAGCATCTCTAAAGTCTGCTGAGCGAAGATACCAGCGGTGCAACTACT  
 AAG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2322\\_g11.zip](https://cdn.origene.com/chromatograms/ja2322_g11.zip)

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_013173

**Insert Size:** 1686 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

**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:**

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:** [NM\\_013173.1](#), [NP\\_037305.1](#)

**RefSeq Size:** 4398 bp

**RefSeq ORF:** 1779 bp

**Locus ID:** 25715

**UniProt ID:** [O54902](#)

**Cytogenetics:** 7q36

**Gene Summary:** mediates proton coupled transport of broad range of divalent metal ions; may play a role in intestinal iron absorption [RGD, Feb 2006]