

## Product datasheet for **RR209297**

### Slc11a2 (NM\_013173) Rat Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>RR209297 representing NM\_013173  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGAAGAAGCAGCCGAGGGCAGCAGCAAGTGTCTCCAACCTGTGAGCTAAAACTCTATTCTAAGA  
 GCACAGATCCTCAGGTATCTACCATGGTGTGGATCCTGAAGAAAAGATTCCAGACGATGGTCTTCTGG  
 GGACCATGGAGACTCGGCCAGCCTCGGTGCCATCAACCCTGCTTACAGCAACTCTCCCTCCACATTCC  
 ACCGGGGATTCTGAGGAGCCCTTACCACCTACTTTGATGAGAAAATCCCCATTCTGAGGAGGAGTACT  
 CTTGTTTTAGTTCCGTAACCTCTGGGCCCTTACAGGACCTGGTTTTCTTATGAGCATTGCCTACCTGGA  
 TCCAGGAAACATTGAATCTGATTACAGTCTGGAGCAGTGGTGGATTTAAGTTGCTCTGGGTGCTCCTG  
 CTGGCCACTATTGTGGGGCTGCTGCTCCAGCGTCTCGCAGCTCGACTGGGAGTGGTACCAGGCTTGACC  
 TTGCTGAAGTGTGCACCGTCAGTATCCCAAGGTCCCACGGATCATCCTGTGGCTAATGGTGGAGTTGGC  
 AATCATTGGTTCTGATATGCAGGAAGTCAATGGCTCAGCCATCGCCATCAATCTCCTGTCTGCCGAAGG  
 GTTCCCTGTATGGTGGAGTCTCATCACCATCGCAGATACTTTTGTATTCTCTTTTTGGACAAATATG  
 GCTTGGCGAAGCTGGAAGCATTTTTGGCTTTCTCATCACTATCATGGCCCTCACATTTGGATATGAGTA  
 TGTACAGTGAACCCAGCCAAAGCCAAGTACTCAGGGGCATGTTCTGTCGCATCCTGTTACAGGCTGCCAC  
 ACCCCTCAGGTGGAGCAGGCGGTGGGCATCGTGGGAGCTGTGATCATGCCACACAACATGTACCTGCACT  
 CTGCCTTAGTCAAGTCTAGACAAGTGAACCGGGCCAATAAGCAGGAAGTTCGAGAAGCCAATAAGTACTT  
 CTTATCGAGTCTGCATTGCACTCTTTGTTTCTTTCATCATCAATGTCTTTGTCGTCTCCGTCTTTGCT  
 GAAGCATTTTTGAGAAAACCAATGAGCAGGTGGTTGAGGTCTGCAGAAAATAGCAGCAGCCCCATGCTG  
 ACCTCTTCTCAACGACAACCTACCCTGGCTGTGGACATCTACAAAGGGGGTGTGTGCTTGATGTTA  
 CTTCCGGCCTGCGGCCCTCTACATCTGGGCGGTGGGGATCCTGGCTGCTGGACAGAGCTCCACCATGAT  
 GGAACCTATTCTGGCCAGTTTGTGATGGAGGGATTCTGAACCTAAAATGGTCCGCCTTTGCCCGCTGA  
 TCCTGACCAGGTCTATTGCCATCATCCCTACCCTGCTTGTGCTGCTTCCAAGATGTGGAGCATCTGAC  
 AGGGATGAATGATTTCTGAATGTTCTGCAGAGCCTACAGCTCCCTTTGCCCTCATCCCTATCCTCACC  
 TTCACAAGCCTGCGGCCAGTGATGAGTGTCTCCAACGGAATAGGCTGGAGGATCGCAGGCGGCATCT  
 TGGTCTTCTCGTCTGCTCCATCAACATGACTTTGTCGTGGTCTACGTCAGGAGCTAGGGCATGTGGC  
 ACTGTATGTGGTGGCTGCAGTGGTTAGCGTGGCTTATCTGGGCTTTGTGTTCTACTTGGTTGGCAGTGT  
 TTGATTGCGTTGGCCTGCTGTTCTGGACTGTGGGCGCTCGGTAAAGCATCTCTAAAGTCTGCTGAGCG  
 AAGATACCAGCGTGGCAATACTAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR209297 representing NM\_013173  
 Red=Cloning site Green=Tags(s)

MGKKQPRAAASAAPNCELKSYSKSTDPQVSTMVLDPEEKIPDDGASGDHGDASLGA INPAYSNSLPHS  
 TGDSEEPFTTYFDEKIPIPEEEYSCFSFRKLWAF TGPGFLMSIAYLDPGNI ESDLQSGAVAGFKLLWVLL  
 LATIVGLLLQRLAARLG VVTGLHLAEVCHRQY PKVPR IILWLMVELAIIGSDMQE VIGSAIAINLLSAGR  
 VPLYGGVLLIT IADTFVFLFLDKYGLR KLEAFFGFLITIMALTFGYEYVTVKPSQSQVLRGMFV PSCSGCH  
 TPQVEQAVGIVGAVIMPHNMYLHSALVKS RQVNRANKQEVREANKYFFI ESCIALFVSFIINVFVSVFA  
 EAFFEKTNEQVVEVCRNSSSPHADLFPNDNSTLAVDIYKGGVVLGCYFGPAALYI WAVGILAAGQSSTMT  
 GTYSGQFVMGEFLNLKWSRFARVILTR SIAI IPTLLVAVFQDVEHLTGMNDFLNVLQSLQLPFALIPILT  
 FTSLRPVMSEFSNGIGWRIAGGILVLLVCSINMYFVVVYVQELGHVALYVVA AVSVAYLGFVFLGWQC  
 LIALGLSFLDCGRSVSISKVLLSEDTSGGNTK

**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

SgfI-MluI

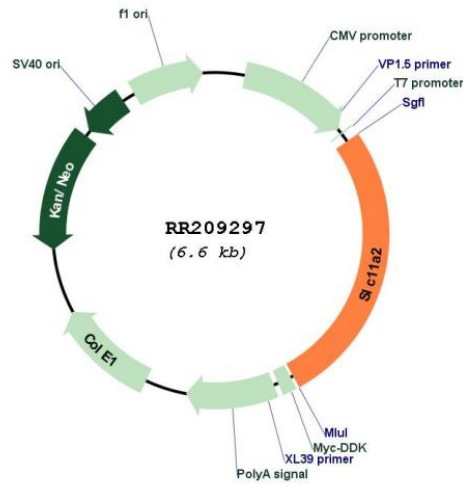
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_013173

ORF Size: 1776 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>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_013173.2</a> , <a href="#">NP_037305.2</a>
<b>RefSeq Size:</b>	4398 bp
<b>RefSeq ORF:</b>	1779 bp
<b>Locus ID:</b>	25715
<b>UniProt ID:</b>	<a href="#">O54902</a>
<b>Cytogenetics:</b>	7q36
<b>MW:</b>	64.5 kDa
<b>Gene Summary:</b>	mediates proton coupled transport of broad range of divalent metal ions; may play a role in intestinal iron absorption [RGD, Feb 2006]