

## Product datasheet for **MR219840**

### **Slc41a2 (NM\_177388) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc41a2 (NM_177388) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc41a2
Synonyms:	A230035L05Rik; SLC41A1-L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR219840 representing NM\_177388  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCCACAGTAAAGGAAGACCTGTCACTTACAAGACAAGTCCAGTCCGGAGAGTGGAGGAGTTTTG  
 TAGATTGGACTTTAAATTTAAATACAATTCATCTGACAAGTTTTGAACCTACTTTAAGCATGGTGCC  
 AGTCATTTACCAGAAAAATCAGGAAGACAGGCATAAAAAAGTAAATGGCATCTGGCAGGACGGGCTGTCG  
 GGTGCAGCACAGACCTTCAGCAAGAGATCAGAGCCACATCTGGACTACCACGAGTTCTCAGAGCAAGCCT  
 TCCACAGCAGCAGCAGTGGGCACACTCCAGCCAGCTGCAGCCCCAAGTACGATGACTATGCTGGCTATAA  
 CTACTGTGACGGGAGGGAGGCTTCGAAACCACCGCCATGTTACAGGACGAAGATCTGTCCAGCGAGGGC  
 GATGATGTTATTGTGAAACAAGCCAGAGGATCCAAAGGAGTCCAGTGGGGTTCATGGCTCTGCAGATAT  
 TGGTGCCATTCTGCTGGCTGGGTTTGAACGGTTTCTGCTGGCATGGTTTTGGACATAGTGCAGCACTG  
 GGAGGTGTTCAAAAATGTGACAGAAGTCTCATTTTGGTCCCCGCGCTTCTTGGTCTTAAAGGAACTTG  
 GAAATGACGCTGGCTTCTCGATTACTACTGCAGTAAATGTTGGGAAGATGGACTCACCCATTGAGAAGT  
 GGAATCTAATCATTGGCAACTTGGCTTTAAAGCAGGTTACAGCCACAGTGGTGGCTTTTTAGCAGCTGT  
 GGCAGCCATCATACTGGGCTGGATTCCAGAAGGGAAGTATTACCTCAGCCATTCCATACTTCTGTGCTCC  
 AGCAGTGTGGCAACGGCCTTCATCGCATCTCTACTGCAGGGAATAATAATGGTTGGTGTATCGTTGGCT  
 CCAAGAAGACTGGCATAAACCCGTGACAACGTGGCCACACCCATTGCTGCTAGTTTTGGTGATCTGATAAC  
 TCTCGCCATATTAGCTTGGATAAGTCAGGGTTGTACTCCTGTCTTGAGACATATTATTACATTTCCCCA  
 TTAGTGTGTGCCTTTTTCTTGGCTCTGACTCCTATCTGGATTATAATAGCTGCCAAGCACCAGCTACCA  
 GGACAGTGTCCACTCAGGCTGGGAGCCTGTCAATAACAGCCATGGTTATAAGCAGCATCGGGGCTTAT  
 TCTGGACACAACCTGTATCTGACCCAAACTTGGTTGGGATTGTTGTTTACAGCCAGTTATCAACGGGATC  
 GGTGGCAATTTGGTGGCCATTACAGGCTAGCAGGATTTCTACCTACCTCCATTTACATAGCATCCCCGGAG  
 AACTACCTGAGGAGCCAAAGGCTGTTCTACCCATTTAGGACATTTTTGGTTCAGGAGTGAACAATAA  
 GTCTGCCAGGTTCTCCTGCTCTTCGTGATCCCGGGCCACTTGATCTTCTCTACACAATTCACCTGATG  
 AAGAGTGGCCACACCTCTCTGACTGTAGTCTTTGTTGTTGTACCTGTTTGTGCTGTGCTGCAGGTGT  
 TCACCCTGCTGTGGATCGCCGACTGGATGGTCCATCGCTTCTGGAGAAAAGGAAAGGCCAGACAGTTT  
 CTCCATCCCGTACCTCACGGCGCTGGGCGATCTGCTTGGGACTGCTCTGCTGGCCTTAAGCTTCCATTTT  
 CTCTGGCTCATTGGAGACCGAGATGGAGACGTTGGAGAC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR219840 representing NM\_177388  
 Red=Cloning site Green=Tags(s)

MTHSKGRPVYKTSASPESGGFVDWTLNLNTIQSDKFLNLLL SMVPVIYQKNQEDRHKVNGIWDGLS  
 GAAQTFSKRSEPHLDYHEFSEQAFHSSSSGHTPASCSPKYDDYAGYNYCDGREASETTAMLQDEDL SSEG  
 DDVIVETSQRIPKESSGVMALQILVPFLLAGFGTVSAGMVLDIVQHWEVFKNVTEVFILVPALLGLKGNL  
 EMTLASRLSTAVNVGKMDSPIEKWNLIIGNLALKQVQATVVGFLAAVAAILGWIPGKYLLSHSILLCS  
 SSVATAFIASLLQGIIMVGVIVGSKKTGINPDNVATPIAASFGLITLAILAWISQGLYSCLETYYPYIS  
 LVCAFFLALTPIWIIIAAKHPATRTVLHSGWEPVITAMVISSIGGLILDTTVSDPNLVGIVVYTPVINGI  
 GGNLVAIQASRISTYLHLHSIPGELPEEPKGCSPFRFFGSGVNNKSAQVLLL FVIPGHLIFLYTIHLM  
 KSGHTSLTVVFFVYVYLF AAVLQVFTLLWIADWMVHRFWRKGDPSFSIPYLTALGDLLGTALLALSFH  
 LWLIGDRDGDVGD

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9015\\_a10.zip](https://cdn.origene.com/chromatograms/mm9015_a10.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_177388

**ORF Size:** 1719 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_177388.3](#), [NP\\_796362.1](#)

**RefSeq Size:** 4386 bp

**RefSeq ORF:** 1722 bp

**Locus ID:** 338365

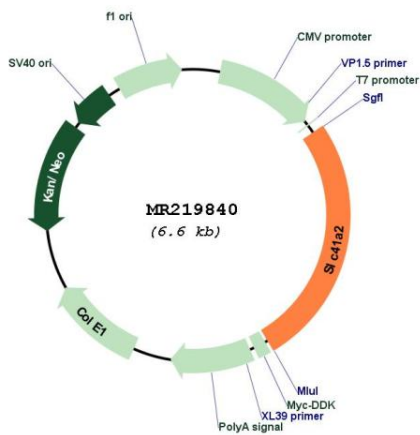
**UniProt ID:** [Q8BYR8](#)

**Cytogenetics:** 10 C1

MW: 62.8 kDa

Gene Summary: Acts as a plasma-membrane magnesium transporter.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR219840