

## Product datasheet for **RR212817**

### **Slc3a2 (NM\_019283) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc3a2 (NM_019283) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc3a2
Synonyms:	Mdu1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR212817 representing NM\_019283  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATCCCGAACCTACTGAACACTCCACCGCGCGGCTCGGTTCCCGCCAGCCGCCAGCGCGCAGA  
 CGGGCTTGATGTCCAGGTTGTCAGCGCAGCTGGCGACTCAGGTACCATGAGCCAGGACACCGAAGTGGA  
 CATGAAAGATGTGGAGCTGAACGAGCTGGAACCGGAGAAGCAGCCTATGAATGCAGCGGACGGGGCGGCA  
 GCCGGGAGAAGAACGGTCTGGTGAAGATTAAGGTGGCCGAAGACGAGGCGGAAGCCGGGGTCAAGTTCA  
 CAGGCTTATCCAAGGAGGAGCTATTGAAGTAGCTGGCAGCCCGGCTGGGTGCGCACCCGCTGGGCGCT  
 GCTGCTGCTCTTCTGGCTCGGTTGGCTGGGTATGCTGGCGGGCGCCGTGGTTATCATCGTTCCGGCGCCA  
 CGCTGCCGTGAGCTGCCGGTACAGAGATGGTGGCACAAGGGCGCCCTCTACCGCATCGGCGACCTTCAGG  
 CCTTCGTAGGCCCGAAGCGAGAGGCATAGCTGGTCTGAAGAACCATCTGGAGTACTTGAGCACCCCTGAA  
 GGTGAAGGGCCTAGTTTTGGGCCAATTCACAAGAACCAGAAGGATGAAGTCAATGAAACCGACTTGAAA  
 CAGATTGATCCCATTAGGCTCCCAGGAAGATTTTAAAGACCTTCTACAAAGTCCAAGAAAAAGAGCA  
 TTCACATCATTGGACCTCACTCCCAACTATAAGGGCCAGAATGCATGGTTCCTCCCTCCTCAGGCTGA  
 CATTGTAGCCACCAAAATGAAGGAGGCTCTGAGTCTTGTTGTCAGGACGGTGTGGATGGTTTCAAAGTT  
 CGGGATGTGGAAAGCTGGCGAATGCATCCTTGTACTTGGCTGAGTGGCAGAATATCACCAAGAACTTCA  
 GTGAGGACAGGCTTTGATTGCAGGGACCGCTCTGACCTGCAACAAATGTCAACATACTTGAATC  
 CACCAGCATCTGCTGCTGACAGCTCATACTGTACAGCCGTTTTCACTGGGAGCATGCAGAACTC  
 CTAGTATTAAGTATTTGAATGCCACTGGCAGCCGCTGGTGCAGCTGGAGTGTGTCGAGGCAGGACTCC  
 TGACATCTTTATACCGGCTCAGTTTCTCCGACTCTACCAGCTGCTGCTTCACTTCCAGGAATCC  
 TGTTTTCACTATGGGGATGAGCTTGGCCTTCAGGCAGTTGCCCTTCTGGACAGCCTATGGAGGCTCCA  
 TTCATGCTGTGGAATGAGTCTAGCAACTCCAAACCTCAAGTCTGTAAGCCTCAACATGACAGTGAAGG  
 GCCAAATGAAGACCCCGGCTCCCTCCTCACCCAGTTCGGCGACTGAGTACCTCCGTGGTAAGGAGCG  
 CTCTCTGTTACACGGTGACTTTGATGACTGTCTTCTCATCTGGCCTTCTCTACGTCGCCACTGG  
 GACCAGATGAGCGTTACCTGGTGGTGTCAACTCCAGGATGTGGCCTGTGAGCCAGGATAGGAGCCT  
 CCAACCTCCCTGCTGGCATAAGCCTGCCAGCCAGTCTAACCTTTTGCTTAGTACTGACAGCACCCGGCT  
 AAGCCGTGAGGAGGCACCTCCCTGAGCCTGAAAACCTGAGCCTGAATCCTTATGAGGGCTTGTGTTA  
 CAGTTCCTTTTGTGGCC

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR212817 representing NM\_019283  
 Red=Cloning site Green=Tags(s)

MDPEPTEHSTGGGSVPRQPPSAQTGLDVQVVSAAAGDSGTMSSQDTEVDMKDVELNELEPEKQPMNAADGAA  
 AGEKNGLVKIKVAEDEAEAGVKFTGLSKEELLKVAGSPGWVTRWALLLLFWLWLGMLAGAVVIVRAP  
 RCRELPVQRWWHKGALYRIGDLQAFVGPARGIAGLKNHLEYLSTLKVKGLVLP.IHKNQKDEVNETDLK  
 QIDPDLGSQEDFKDLLQSAKKKSIHIIIDLTPNYKQNAWFLPPQADIVATKMKEALSSWLQDGVDFQV  
 RDVGKLANASLYLAEWQNIITKNFSEDRLLIAGTASSDLQQIVNILESTSDLLLSSYLSQPVFTGEHAEL  
 LVIKYLNATGSRWCSWSVSQAGLLTSFIPAQFLRLYQLLLFTLPGTPVFSYGDELGLQAVALPGQPMEAP  
 FMLWNESNSQTSPPVSLNMTVKQNEPDSLLTQFRRLSDLRGKERSLLHGDFDALSSSSGLFSYVRHW  
 DQNERYLVLNFQDVGLSARVGNLPAISLPASANLLLSTDSTRLSREEGTSLSLENLSLNPYEGLLL  
 QFPFVA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

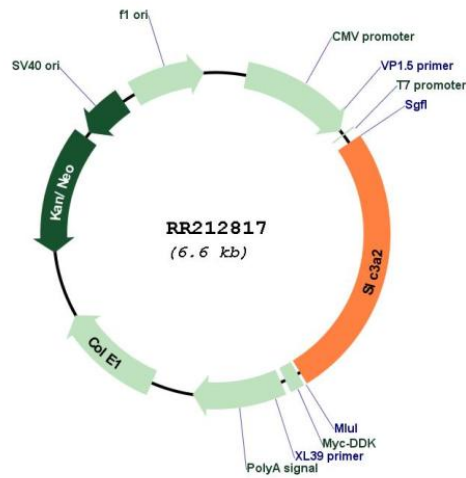
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_019283  
 ORF Size: 1698 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](#)

**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\\_019283.3](#), [NP\\_062156.2](#)

**RefSeq Size:** 1979 bp

**RefSeq ORF:** 1701 bp

**Locus ID:** 50567

**Cytogenetics:** 1q43

**MW:** 61.9 kDa

**Gene Summary:** Na<sup>+</sup>-independent neutral amino acid transporter; may have a role in cell growth and activation [RGD, Feb 2006]