

## Product datasheet for **RN212817**

### **Slc3a2 (NM\_019283) Rat Untagged Clone**

#### **Product data:**

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



[View online »](#)

**Fully Sequenced ORF:** >RN212817 representing NM\_019283  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATCCCGAACCTACTGAACACTCCACCGCGCGGCTCGGTTCCCCGCCAGCCGCCAGCGCGCAGA  
 CGGGCTTGATGTCCAGGTTGTCAGCGCAGCTGGCGACTCAGGTACCATGAGCCAGGACACCGAAGTGGA  
 CATGAAAGATGTGGAGCTGAACGAGCTGGAACCGGAGAAGCAGCCTATGAATGCAGCGGACGGGGCGGCA  
 GCCGGGAGAAGAACGGTCTGGTGAAGATTAAGGTGGCCGAAGACGAGGCGGAAGCCGGGGTCAAGTTCA  
 CAGGCTTATCCAAGGAGGAGCTATTGAAGTAGCTGGCAGCCCGGGCTGGGTGCGCACCCGCTGGGCGCT  
 GCTGCTGCTCTTCTGGCTCGGTTGGCTGGGTATGCTGGCGGGCGCCGTGGTTATCATCGTTCGGGCGCCA  
 CGCTGCCGTGAGCTGCCGGTACAGAGATGGTGGCACAAGGGCGCCCTCTACCGCATCGGCGACCTTCAGG  
 CCTTCGTAGGCCCGAAGCGAGAGGCATAGCTGGTCTGAAGAACCATCTGGAGTACTTGAGCACCCCTGAA  
 GGTGAAGGGCCTAGTTTTGGGCCAATTCACAAGAACCAGAAGGATGAAGTCAATGAAACCGACTTGAAA  
 CAGATTGATCCCGATTTAGGCTCCAGGAAGATTTTAAAGACCTTCTACAAAGTGCCAAGAAAAAGAGCA  
 TTCACATCATTTTGGACCTCACTCCCAACTATAAGGGCCAGAATGCATGGTTCCTCCCTCCTCAGGCTGA  
 CATTGTAGCCACCAAAATGAAGGAGGCTCTGAGTCTTGGTTGCAGGACGGTGTGGATGGTTTCCAAGTT  
 CGGGATGTGGGAAAGCTGGCGAATGCATCCTTGTACTTGGCTGAGTGGCAGAATATCACCAAGAACTTCA  
 GTGAGGACAGGCTTTTGATTGCAGGGACCGCTCCTCTGACCTGCAACAAATGTCAACATACTTGAATC  
 CACCAGCATCTGCTGCTGACCAGCTCATACTGTACAGCCCGTTTTACTGGGAGCATGCAGAACTC  
 CTAGTGATTAAGTATTTGAATGCCACTGGCAGCCGCTGGTGCAGCTGGAGTGTGTCGAGGACAGGACTCC  
 TGACATCCTTTATACCGGCTCAGTTTCTCCGACTCTACCAGCTGCTGCTTCTCACTCTGCCAGAACTCC  
 TGTTTTACGCTATGGGGATGAGCTTGGCCTTCAGGCAGTTGCCCTTCTGGACAGCCTATGGAGGCTCCA  
 TTCATGCTGTGGAATGAGTCTAGCAACTCCAAACCTCAAGTCCTGTAAGCCTCAACATGACAGTGAAGG  
 GCCAAAATGAAGACCCCGGCTCCCTCCTCACCCAGTTCGGCGACTGAGTGACCTCCGTGGTAAGGAGCG  
 CTCTCTGTTACACGGTGACTTTGATGCACTGTCTTCTCATCTGGCCTTCTCTCTACGTCGGCCACTGG  
 GACCAGAATGAGCGTTACCTGGTGGTGTCAACTTCCAGGATGTGGCCGTGTGAGCCAGGGTAGGAGCCT  
 CCAACCTCCCTGCTGGCATAAGCCTGCCAGCCAGTGCTAACCTTTTGCTTAGTACTGACAGCACCCGGCT  
 AAGCCGTGAGGAGGGCACCTCCCTGAGCCTGAAAACCTGAGCCTGAATCCTTATGAGGGCTTGTGTTA  
 CAGTTCCTTTTGTGGC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_019283  
**Insert Size:** 1701 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\\_019283.3](#), [NP\\_062156.2](#)

**RefSeq Size:** 1979 bp

**RefSeq ORF:** 1701 bp

**Locus ID:** 50567

**Cytogenetics:** 1q43

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

Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.