

## Product datasheet for **RN211668**

### **Slc13a2 (NM\_031746) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc13a2 (NM_031746) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc13a2
Synonyms:	mucin; Nadc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN211668 representing NM\_031746  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCACCTGCTGGCCGCACTATGGGCTTATCGCTTCTACCTGATTGTGCTCTGTCTGCCATTTTCC  
 TGTTCCTCTGCCACTCATTGTCCAACTAAGGAAGCCTACTGTGCTTACTCCATCATCCTCATGGCACT  
 GCTGTGGTGTACCGAGGCCCTGCCCTTGGCTGTCACTGCCCTTCCCCATCGTCTCTTCCCTTGATG  
 GGCATCATGGATGCCTCTGAGGTCTGCATAGAGTACTTCAAGGACACCAACATATTGTTTGTGGGGGGC  
 TGATGGTGGCCATTGCTGTAGAACACTGGAACCTGCACAAACGCATTGCCCTCCAAGTGCTTCTTATCAT  
 CGGAGTGGCCCTGCCCTGCTGCTTCTGGGCTTCACTGTTGGTACAGCCTTCTCTCCATGTGGATTAGC  
 AACACAGCCACCACAGCCATGATGGTACCCATCGGGCATGCAGTCTGGAACAGCTGCAGGGCTCCAAAA  
 AGGACGTGGAGGGAGGCAATAATAACCCACCTTTGAGCTCCAGGAAGAATGTCCCAGAAGGAGGTGAC  
 CAAGCTTGATAATGGACAACCTGTATCTGCTCCTCAGAGCCAAGAACACAGAAGACCCAAGAGCATCAC  
 CGCTTCAGCCAGGGCCTGAGTCTCTGCATCTGCTACTCAGCCAGCATCGGGGGCATTGCCACCCTGACGG  
 GTACCACGCCAACCTGGTGCTCCAAGGCCAGGTCAACTCGCTTCTCCCAAAAATGGCAATGTGGTGAA  
 CTTTGCTTCGTGGTTTGGTTTCCGCTTCCCCACCATGATCATCTTGTGCTGCTGGCTTGGCTATGGCTA  
 CAGGTCCTCTTCCAGGTGTCAACTTCCGGAAGAACTTTGGCTTGGGGAAGGGGAAGAGGAACGAAAGC  
 AGGCTGCTTCCAGGTCAAGACCCAGTACAGGCTGCTGGGGCCCATGAGTTTGCAGAGAAGACTGT  
 CACTGTTCTGTTGTCTGCTGGTGGTCTGCTGGTTCACGAGAGAGCCGGGCTTCTTCCAGGCTGGGGT  
 GACACAGTTTTCGCCAATGAAAAAGGGCAAAGCATGGCGTCAGATGGGACAGTGGCCATCTTCATCAGCC  
 TGGTTATGTTTCATACACCTCCAAGATCCAGGACTAATGCAGGACCCAAAAAACAGGGAAGTGAA  
 GGCTCCTCTGCCATCCTCACCTGGAAGACAGTGAACGATAAGATGCCCTGGAATATCGTGATCTTGCTG  
 GGTGGGGGCTTGGCCCTGGCCAAAGGCAGTGAGCAATCAGGTCTGTCTGAATGGCTGGGAGACAACTGA  
 CCCCAGTGCAGCACATACCGCCATCAGCCACTGCAGTCACTCTGCCTTTTGATCGCCATCTTCACTGA  
 GTGTACCAGTAACGTGGCCACCACTACGCTATTTCTACCCATCCTGGCCTCCATGGCACAAGCCATCTGT  
 CTTACCCGCTCTACGTCACTGCTCCCTGCACCCTGGCTGCCTCCCTGGCTTTCATGCTACCTGTGGCCA  
 CTCCACCAACGCCATTGTATTCTCTTTGGAGGCCTCAAGGTGTCTGATATGGCCCGCTGGATTCTCT  
 GCTCAATATCATCGGAGTCTGGCTATCACATTATCCATCAACAGCTGGAGTATCCCATCTTCAAGCTG  
 GACACATTCCTCTGGGCCACTCCAACACAAGCCAGTGCCTTCTCAATCCGCTAATCCACTGTAC  
 CAGGAGGCTCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2092\\_h04.zip](https://cdn.origene.com/chromatograms/ja2092_h04.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_031746

**Insert Size:** 1764 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\\_031746.1](#), [NP\\_113934.1](#)

**RefSeq Size:** 2438 bp

**RefSeq ORF:** 1764 bp

**Locus ID:** 65202

**Cytogenetics:** 10q25

**Gene Summary:** facilitates sodium dependent transport of Krebs cycle intermediates including citrate, succinate, alpha-ketoglutarate, and oxaloacetate [RGD, Feb 2006]