

## Product datasheet for **RN200308**

### **Slc7a2 (NM\_022619) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc7a2 (NM_022619) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc7a2
Synonyms:	Cat2; Cat2a; Cat2b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN200308 representing NM\_022619  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTCCCTGCAGAGCAGTGTGACTTTCACACGATGTCTGATCCGGAGAAAAATTGTCACTGGACA  
 GTCTGGAAGATCCAAACTCTGCCGCTGCTTAACCACCATGGACCTCATCGCCCTGGGAGTTGGAAGCAC  
 TCTCGGCCTGGGGTTTACGTCCTGGCTGGAGAAGTCGCCAAAGCTGACTCCGGCCCTAGTATTGTGGTG  
 TCTTCTCATCGCTGCCCTGGCTTCGGTATGGCCGGCCTTTGCTACGCTGAATTTGGGGCCGAGTAC  
 CAAAGACTGGATCTGCGTATCTATACACATACGTACGTTGGAGAGCTGTGGCCTTCATCACTGGTTG  
 GAATCTCATTCTGTCATATGTCATAGGTACGTCCAGTGTGCAAGAGCTTGGAGTGGCACCTTCGATGAG  
 CTTCTTAAACAACAGATTGGCCAGTTTTTCAAGACCTACTTCAAATGAATTACACCGGTCTGGCGGAGT  
 ATCCGGACTTCTTGGCGTGTGCCTTGATTACTTCTGGCAGGTCTTTATCTTTGGAGTAAAGGAGTC  
 TGCTTGGGTGAATAAATTTTTACAGCTATTAATATCCTGGTCTTCTTTGTCATGGTGGCTGGGTTT  
 GTGAAAGGAAATGTGGCTAACTGGAAGATCAGTGAAGAATTTCTCAAGAATATATCAGCAAGTGCCAGAG  
 AACCACCTTCTGAAAATGGAACAAGCATCTACGGGGCTGGCGGCTTCATGCCCTTATGGCTTACAGGGAC  
 GCTGGCTGGTGTGCAACGTGCTTTATGCCTTTGTGGGCTTGGACTGCATTGCAACAACCGGCGAAGAG  
 GTCCGGAATCCCCAAAAGGCTATCCCATTTGGAATAGTAACTTCTTACTTGTGTTGCTTTATGGCCTATT  
 TTGGGGTTTCTGCAGCTTAACTTATGATGCCTTACTACCTCTGGATGAGAAAAGCCCACTCCCTGT  
 TGCATTTGAATATGTCGGATGGGTCTGCTAAATACGTTGTGCGCGCAGGCTCCCTCTGCGCCTTATCA  
 ACAAGTCTTGGGTTCTATGTTCCCTTACCCCGCATTCTGTTGCCATGGCCCGGATGGCTTACTGT  
 TTAGATTTCTTGAAGAGTGAGTAAGAGGCAGTCACCCGTTGCTGCCAGATGACTGCAGGGGTCATTTT  
 TGCTGTGATGGCCTTTCTTTTGGACCTGAAGGCTCTCGTGGACATGATGTCTATTGGCACCTCATGGCC  
 TACTCTGTGTCGACGCTGTGTCTATTCTCAGGTACCAACCTGGCTTGTGTTATGAGCAGCCCAAT  
 ACACCCCTGAGAAAGACATTCTGGAGTCATGTACCAATGCGACCTCGAAGAGCGAGTCCCAGGTACCAT  
 GCTGCAAGGACAGGGTTTACGCTACGAACCTTCAACCCCTCTGCTCTGCCACACGACAGTCAGCC  
 TCCCTCGTGAAGTCTTGGTGGGATTCTGGCTTCTCATCGCCGGCTTGGATTTCTGACCACGTACG  
 GAGTCCAGGCCATCGCCAGACTGGAAGCCTGGAGCCTGGCTTCTCGCCCTGTTCTTGTCTCTGCGC  
 TGCCGTACCTGACCATTTGGAGGCAGCCACAGAATCAGCAAAAAGTAGCCTTCATGGTCCCGTTCTTA  
 CCGTTTCTGCCGCTTACAGCATCTGGTCAACATTTACTTGATGGTCCAGTTAAGCGCGGACACTTGGG  
 TCAGATTCAGCATCTGGATGGTGTGGCTTTCTGATTTACTTCGCTATGGCATTAGACACAGCTTGGG  
 GGGTAACCCAGGGATGAAGAAGAAGATGAAGATGTCTGTCCAGACAACGTCAATGCAGCAGCAGAAGAA  
 AAGTCTGCCATGCAGGCAATGACCATACCAAAGAAACCTCAGCTTGCCTTTCATACTTCATGAAAAGA  
 CAAGTGAATGT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_022619
- Insert Size:** 1974 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_022619.3](#), [NP\\_072141.2](#)

**RefSeq Size:** 2497 bp

**RefSeq ORF:** 1974 bp

**Locus ID:** 64554

**UniProt ID:** [B5D5N9](#)

**Cytogenetics:** 16q12.1

**Gene Summary:** a glomerular cationic amino acid transporter which transports L-Arginine [RGD, Feb 2006]  
Transcript Variant: This variant (1) represents the shorter transcript and encodes the shorter protein (isoform a).