

Product datasheet for **RN203429**

Slc7a3 (NM_017217) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc7a3 (NM_017217) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc7a3
Synonyms:	Atrc3; cat-3; Cat3; Slc7a2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >RN203429 representing NM_017217
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTGGCAGGCACTTCAAGATTTGGTCAAAGCTGGTGGGAGACGTTTGGCTGGAGCTGGGCATGG
 GTGAAACCCGCTTGCCAGATGCCTGAGCACTCTCGACTTAGTGGCCCTGGGTGTGGGCAGCACATTAGG
 TGACGGTGTGTATGTCCTGGCTGGTGGAGGTGGCCAAAGAGAAAGCAGGACCATCCATTGTGATCTGCTTT
 TTGGTGGCTGCTCTGTCTCTGTGTTGGCTGGACTGTGTATGCTGAGTTTGGTGGCCGGTCCCGGCT
 CTGTTTCTGCATACCTCTACAGTTATGTCACCGTAGGTGAACCTCTGGCCCTTACCACCGGCTGGAATCT
 CATTCTCTCTACGTCATTGGTACAGCCAGTGTGGCCCGGCTTGGAGCTCTGCTTTTGACAACCTGATT
 GGAACCACATCTCTCAGACTCTGAAGGGGACCATCTTACTGAACATGCCTCATGTTCTTGCAGAATATC
 CAGATTTCTTTGCCTTGGCCCTTGTGTTGCTGCTCACTGGATTGCTGGTTTTGGGGCTAATGAATCCGG
 CCTGGTTACCAAAGTGTTCACAGGGATGAACCTTTTGGTTCTCGGTTTGTGCATCATCTCTGGCTTCAAT
 AAGGGAGAGCTGAGAACTGGAAGCTCACGAAAGAGGACTATTGCTTGACTATGAGTGAATCCAATGGCA
 CTGTAGCTTGGATTCTATGGGCTCTGGAGTTTCATGCCTTTTGGCTTGGAAAGGATTCTCCGTGGCGC
 TGCTACCTGTTTCTATGCCTTCGTTGGTTTTGACTGTATTGCGACCACTGGGGAAGAGGCTCAGAATCCC
 CAGCGCTCCATCCCTATGGGTATTGTGATCTCACTGTCCATCTGCTTTTTGGCTTATTTTGGTGTGCAT
 CAGCACTGACGCTCATGATGCCTTACTACAAGCTTCAAGCTGAGAGCCCTCTGCCTGAAGCTTTTACCTA
 TGTTGGCTGGGAGCCTGCCCGCTACCTGGTGGCTATTGGCTCCCTCTGTGCACCTTCTACTAGCCTTTTG
 GGCTCTATGTTTCTATGCCTCGGGTATCTATGCGATGGCAGAAGATGGCCTTCTGTTCCGTGTCCTTG
 CTAGGGTCCACAATGGCACACATACACCATTGTGGCCACTGTGGTATCTGGTGTATTGCAGATTTCAT
 GGCAATTCCTCTTTGAACTCACTGATCTCGTGGACCTCATGTCAATCGGGACTCTGCTCGCTTACTCCCTG
 GTGTCAATTTGTGTTCTTATCCTCAGATATCAGCCTGACCAAGAAATGAAGAACGGTGAAGAGGAAGTGG
 AATTGCAAGAGGAGAGGACACTCGAAGCAGAAAAGCTGACTGTCCAGGCTCTATTTTGCAGTCACTC
 CATCCCCACACTCCTTTTGGCCGAATTGTCTATGTTTGGCTCATCACTGCTTGTGTACTACTAAGTGT
 CTTTGCCTGGTGTGACCTGGTGGACAACCTCCGCTTCACTTGGAGACCCAGTGTGGGTACAGTGGTTG
 TGCTGATCCTGGGGCTGATCCTTGAATTTCTGGGGTCACTGGAGACAACCACAGAACCGCACTCCCT
 TCATTTAAAGGTGCCGTTGTTCTCTACTCCCACTGGTGGAGCATCTTTGTGAATGTTTACCTGATGATG
 CAAATGACAGCTGACACTTGGGCCGATTTGGGGTCTGGATGCTGATTGGATTGCTATCTACTTCGGCT
 ATGGGATCCAACACAGCGTGAAGAAGTTAAGAATCATCAAACCTCTACCAAGACAAGGCCCCAAACTAT
 AGACCTTGATCTCACCCTTCTTGTGTTTCATAGTATT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_017217
- Insert Size:** 1860 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_017217.1](#), [NP_058913.1](#)

RefSeq Size: 2152 bp

RefSeq ORF: 1860 bp

Locus ID: 29485

UniProt ID: [O08812](#)

Cytogenetics: Xq22

Gene Summary: mediates sodium independent transport of L-arginine; may act as a system y⁺ cationic amino acid transporter in the brain; transport activity is inhibited by high potassium-induced membrane depolarization; [RGD, Feb 2006]