

Product datasheet for **RN206380**

Slc7a1 (NM_013111) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc7a1 (NM_013111) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc7a1
Synonyms:	Atrc1; Cat-1; CAT1; EcoR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>RN206380 representing NM_013111

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGGCTGCAAAAACCTGTTGAGCCTGGGTGAGCAGACGCTGCGCCGAAAGTGGTGGATGTCAGCCGGG
AGGAGAGCCGGCTGTCCGCTGCCTCAACACCTATGATCTGGTAGCTCTTGGGGTGGGCAGCACCTTGGG
CGCTGGTGTCTACGTCTAGCCGGTGCAGTGGCCCGTGAAGTGTGGTCTGCCATCGTCATCTCCTTC
CTGATCGCTGCTTTCCTCAGTGTGGCCGGCTGTGCTATGGCGAGTTTGGTGGCCGTGTCCCAAGA
CGGGCTCAGCCTACCTCTACAGCTATGTGACAGTGGGGGAGCTCTGGGCCTTCATCACTGGCTGGAACCT
GATTCTCTCTACATCATCGGTACATCCAGCGTGGCAAGAGCCTGGAGTGCACCTTTTACGAGCTGATA
GGCAAACCCATCGGAGAGTTCTCGCGTCAACACATGGCCCTGAACGCCCTGGGGTGTGGCCAAACCC
CGGATATATTTGCTGTGATTATAATTATCATCCTGACAGGACTGTTAACTCTCGGTGTGAAAGAATCAGC
CATGGTCAACAAAATCTTCACTGTATCAATGTCTGGTCTTGTGCTTCATCATGGTGTGCGGATTCTGT
AAAGGCTCCATTGAGAATGGCAGCTCACGGAGAATAAAATCCAGTCTCTCTGTGGGAACATGACACAA
ACGTGAAATACGGTGAGGGAGGGTTATGCCCTTTGGATTCTCTGGTGTCTGTGAGGGGAGCGACCTG
CTTTTATGCCTTCGTGGGCTTTGACTGCATCGCCACCACAGGGGAAGAAGTCAAGAACCCCAAGAGGCC
ATTCCTGTGGGCATTGTGGCGTCCCTCCTCATTGCTTCATAGCTTACTTTGGGGTGTCCGCTGCTCTCA
CCCTCATGATGCCCTACTTCTGCCTGGACACTGACAGCCCACTGCCTGGCGCCTTCAAGTACAGGGGCTG
GGAAGAAGCTAAGTATGCAGTGGCCGTGGGCTCCCTCTGCGCACTCTCCACCACTCTCTAGGTTCCATG
TTCCCCATGCCCCGAGTTATCTATGCCATGGCTGAAGATGGACTACTGTTAAATTTTGGCCAAATCA
ACGATAGGACCAAAACCAATAATCGTACTGTGACCTCAGGCGCCATCGCTGCTGTGATGGCCTTCCT
CTTTGAACTGAAGGATCTGGTGGACCTCATGTCCATTGGTACTCTCTGGCTTACTCTTTGGTGGCTGCC
TGTGTTTTGGTCTTACGGTACCAGCCAGAACAACCTAATCTGGTATACCAGATGGCCAGAACCACCGATG
AGCTAGACCAGGTAGACCAGAATGAGATGGTCACTGCCAGTGAAGTCCCAGACAGGCTTTTACCAGCAGC
CGAGAAGTTTTCTGAAAACCACTCTCACCAAGAACATGGAGCCGTCCAAATTCTCAGGGCTAATT
GTGAACATTTAGCCGGCCTCTAGCCGTTCTTATCATACCGTGTGCATTGTGGCCGTGCTTGAAGAG
AGGCCCTGGCTGAAGGGACGCTGTGGGCAGTCTTTGTAATGACAGGGTCACTCCTCTGCATGCTGGT
GACGGGCATCATCTGGAGGCAGCCTGAGAGCAAGACCAAGCTCTCGTTTAAGGTACCCTTTGTCCCGTA
CTTCCTGTCTTAAGCATTTTGTGAACATCTATCTCATGATGCAACTGGACCAGGGCACGTGGGTCCGGT
TCGCAGTGTGGATGCTGATAGGCTTTGCCATCTACTTTGGCTATGGGGCTGGCACAGTGAAGGAGCATC
CCTGGCTGCTGGCCAGGCAAAGACTCCTGATAGCAACTTGGACCAGTGCAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_013111

Insert Size:

1875 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:	<u>NM_013111.3, NP_037243.2</u>
RefSeq Size:	6712 bp
RefSeq ORF:	1875 bp
Locus ID:	25648
Cytogenetics:	12p11
Gene Summary:	acts as a cationic amino acid transporter and as an ecotropic retrovirus receptor; plays a role in the Na ⁺ -independent y ⁺ cationic amino acid transport system [RGD, Feb 2006]