

Product datasheet for **SC301320**

SLC7A2 (NM_001008539) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC7A2 (NM_001008539) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC7A2
Synonyms:	ATRC2; CAT2; HCAT2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_001008539 edited
 ATGATTCTTGCAGAGCCGCGCTGACCTTTGCCGATGTCTGATCCGGAGAAAAATCGTG
 ACCCTGGACAGTCTAGAAGACACCAAATTATGCCGCTGCTTATCCACCATGGACCTCATT
 GCCCTGGGCGTTGGAAGCACCCCTGGGGCCGGGTTTATGTCCTCGCTGGGGAGGTGGCC
 AAGGCAGACTCGGGCCCCAGCATCGTGGTGTCTTCTCATTGCTGCCCTGGCTTCAGTG
 ATGGCTGGCCTCTGCTATGCCGAATTTGGGGCCCGTGTCCCAAGACGGGGTCTGCATAT
 TTGTACACCTACGTGACTGTGAGAGCTGTGGCCTTCATCACTGGCTGGAATCTCATT
 TTATCGTATGTATAGGTACATCAAGTGTGCAAGAGCCTGGAGTGGCACCTTTGATGAA
 CTTCTTAGCAAACAGATTGGTCAGTTTTTGGAGACATACTTCAGAATGAATTACACTGGT
 CTTGCAGAATATCCCGATTTTTTGGCTGTGTGCCTTATATTACTTCTAGCAGGTCTTTTG
 TCTTTTGGAGTAAAAGAGTCTGCTTGGGTGAATAAAGTCTTCACAGCTGTTAATATTCTC
 GTCCTTCTGTTTGTGATGGTTGCTGGGTTTGTGAAAGGAAATGTGGCAAAGTGAAGATT
 AGTGAAGAGTTTCTAAAAATATATCAGCAAGTCCAGAGAGCCACCTTCTGAAAACGGA
 ACAAGTATCTATGGGCTGGTGGCTTTATGCCTTATGGCTTACGGGAACGTTGGCTGGT
 GCTGCAACTTGTCTTTATGCCTTTGTGGGATTTGACTGCATTGCAACAAGTGGTGAAGAA
 GTTCGGAATCCCCAGAAAGCTATTTCCATTGGAATGTGACGCTTTGCTTGTGTTGCTTT
 ATGGCCTATTTTGGGGTCTCTGCAGCTTAACTTATGATGCCGTAACCTCCTCGAT
 GAAAAAGCCCCCTTCTGTAGCGTTTGAATATGTGGGATGGGGTCTGCCAAATATGTC
 GTCGCAGCTGGTCTCTCTGCGCCTTGTCAACAAGTCTTCTTGGATCCATTTTCCCAATG
 CCTCGTGAATCTATGCTATGGCGGAGGATGGGTTGCTTTTCAAATGTCTAGCTCAAATC
 AATTCAAAACGAAGACACCAATAATTGCTACTTTATCATCGGGTGCAGTGGCAGCTTTG
 ATGGCCTTCTGTTTACCTGAAGGCGCTTGTGGACATGATGCCATTGGCACCCCTCATG
 GCCTACTCTCTGGTGGCAGCCTGTCTTCTATCCTCAGGTACCAGCCTGGCTTATCTTAC
 GACCAGCCCAAATGTTCTCTGAGAAAGATGGTCTGGGATCGTCTCCAGGGTAACCTCG
 AAGAGTGAAGTCCAGGTACCATGCTGCAGAGACAGGGCTTACGATGCGGACCCCTTTC
 TGCCCTCCCTTCTGCCAACACAGCAGTCACTTCTCTCGTGAGCTTTCTGGTAGGATTC
 CTAGCTTCTCTCGTGTGGGCTGAGTGTCTTGACCACTTACGGAGTTCATGCCATCACC
 AGGCTGGAGGCTGGAGCCTCGCTCTCTCGCGCTGTTTCTTGTCTCTTCTGTTGCCATC
 GTTCTCACCATCTGGAGGACGCCCAAGATCAGCAAAAAGTAGCCTTTCATGGTCCATTCT
 TTACCATTTTTGCCAGCCTTCAAGCATCTTGGTGAACATTTACTTGATGGTCCAGTAAAGT
 GCAGACACTTGGGTGAGATTCAGCATTGGATGGCAATTGGCTTCTGATTTACTTTTCT
 TATGGCATTAGACACAGCCTGGAGGGTCACTGAGAGATGAAAACAATGAAGAAGATGCT
 TATCCAGACAACGTTTCATGCAGCAGCAGAAGAAAAATCTGCCATTCAAGCAAATGACCAT
 CACCAAGAAATCTCAGTTCACCTTTCATATTCCATGAAAAGACAAGTGAATTCTAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_001008539 unedited
 CGTCANCAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGCGGCCGCTG
 CTCCAGCGTCCCCAGCCGCGGGCCCCGACGCGCTGCAGCCGGCAGCCACCGCCGCT
 TCTTGGCGGACCCCAACCCAGCCCAAGTGCCTTCGTCAGACGTCAGAATGATTCTTG
 CAGAGCCGCGCTGACCTTTGCCGATGTCTGATCCGGAGAAAAATCGTGACCCTGGACAG
 TCTAGAAGACACCAAATTATGCCGCTGCTTATCCACCATGGACCTCATTGCCCTGGGCGT
 TGAAGCACCCCTGGGGCCGGGTTTATGTCCTCGCTGGGGAGGTGGCAAGGCAGACTC
 GGGCCCCAGCATCGTGGTGTCTTCTCATTGCTGCCCTGGCTTCACTGATGGCTGGCT
 CTGCTATGCCGAATTTGGGGCCCGTGTCCCAAGACGGGGTCTGCATATTTGTACACCTA
 CGTGACTGTGAGAGCTGTGGCCTTCATCACTGGCTGGAATCTCATTTTATCGTATGT
 GATAGGTACATCAAGTGTGCAAGAGCCTGGAGTGGCACCTTTGATGAACTTCTTAGCAA
 ACAGATTGGTCAGTTTTTGGAGACATACTTCAGAATGAATTACACTGGTCTTGGCAGATA
 TCCNGATTTTTTGTGTGTGCCTTATATTACTTCTAGCAGGTCTTTTGTCTTTTGGAGT
 AAAGAGTCTGCTTGGGTGAATAAAGTCTTCACAGCTGGTAAATTTCTCGTCCCTCTGTT
 GTGATGGTTGCTGGGTTTTGTGAAAGGAATGTGGCAAAGTGAAGATTAATGGAAGATT
 TCTCAAAAATATATCACCAGTCCAGAAAAG

Restriction Sites:	Please inquire
ACCN:	NM_001008539
Insert Size:	7500 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none">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_001008539.1</u> , <u>NP_001008539.1</u>
RefSeq Size:	7389 bp
RefSeq ORF:	1977 bp
Locus ID:	6542
UniProt ID:	<u>P52569</u>
Cytogenetics:	8p22
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	<p>The protein encoded by this gene is a cationic amino acid transporter and a member of the APC (amino acid-polyamine-organocation) family of transporters. The encoded membrane protein is responsible for the cellular uptake of arginine, lysine and ornithine. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, uses a downstream translational start codon, and includes an alternate in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) has a different internal segment and is shorter than isoform 1.</p>