

Product datasheet for **SC300051**

SLC3A1 (NM_000341) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC3A1 (NM_000341) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC3A1
Synonyms:	ATR1; CSNU1; D2H; NBAT; RBAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC300051 representing NM_000341.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTGAAGATAAAAGCAAGAGAGACTCCATCGAGATGAGTATGAAGGGATGCCAGACAAACAACGGG
TTTGTCCATAATGAAGACATTCTGGAGCAGACCCCGGATCCAGGAAGCTCAACAGACAACCTGAAGCAC
AGCACCAGGGGCATCCTTGGCTCCAGGAGCCCGACTTCAAGGGCGTCCAGCCCTATGCGGGGATGCC
AAGGAGGTGCTGTTCCAGTTCTCTGCCCAGGCCGCTACCGCATACCTCGGGAGATCCTCTTCTGGCTC
ACAGTGGCTTCTGTGCTGGTCTCATCGCGCCACCATAGCCATCATTGCCCTCTCTCCAAAGTGCCTA
GACTGGTGGCAGGAGGGGCCATGTACCAGATCTACCAAGGCTTTCAAGGACAGTAACAAGGATGGG
AACGGAGATCTGAAAGGTATTCAAGATAAACTGGACTACATCACAGCTTTAAATAAAAACTGTTTGG
ATTACTTCATTTATAAATCGTCCCTTAAAGATTTAGATATGGTGTGAAGATTTCCGGGAAGTTGAT
CCCATTTTGAACGATGGAAGATTTTGAAGATCTGGTGCAGCCATACATGATAAAGGTTTAAATTA
ATCATCGATTTACACCAACCACAGAGTGATAAACATATTTGGTTTCAATTGAGTCGGACACGGACA
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CAGTTTATGAAAGAGCAACCTGATTTAAATTTCCGCAATCCTGATGTTCAAGAAGAAATAAAGAAATT
TTACGGTCTGGCTCACAAAGGGTGTGATGGTTTTAGTTTGGATGCTGTTAAATTCCTCTAGAAGCA
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CTGTACCATGACTTCACCACCACGAGGTGGGAATGCACGACATTGTCCGACGCTCCGGCAGACCATG
GACCAATACAGCACGGAGCCCGCAGATACAGGTTTATGGGACTGAAGCCTATGCAGAGAGTATTGAC
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TCACCAATGCAGTGGGACAATAGTTCAAATGCTGGTTTTTCTGAAGCTAGTAACACCTGGTTACCTACC
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CAAGATTTAAGTCTACTCATGCCAATGAGCTACTCTCAACAGGGGCTGGTTTTGCCATTTGAGGAT
GACAGCCACTATGTTGTGTACACAAGAGAGCTGGATGGCATCGACAGAATCTTTATCGTGGTTCTGAT
TTTGGAGAATCAACACTGTTAAATCTACATAATATGATTTCCGGCCTTCCGCTAAAATGAGAATAAGG
TTAAGTACCAATTCTGCCGACAAAGGCAGTAAAGTTGATACAAGTGGCATTTTTCTGGACAAGGGAGAG
GGACTCATCTTTGAACACAACACGAAGAATCTCCTTTCATCGCAAACAGCTTTCAGAGATAGATGCTTT
GTTTCCAATCGAGCATGCTATCCAGTGTACTGAACATACTGTATACCTCGTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI
 ACCN: NM_000341
 Insert Size: 2058 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 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](#)

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_000341.3](#)

RefSeq Size: 2353 bp

RefSeq ORF: 2058 bp

Locus ID: 6519

UniProt ID: [Q07837](#)

Cytogenetics: 2p21

Protein Families: Druggable Genome, Transmembrane

MW: 78.9 kDa

Gene Summary: This gene encodes a type II membrane glycoprotein which is one of the components of the renal amino acid transporter which transports neutral and basic amino acids in the renal tubule and intestinal tract. Mutations and deletions in this gene are associated with cystinuria. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]