

Product datasheet for **SC327178**

SLC7A2 (NM_001164771) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | SLC7A2 (NM_001164771) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | SLC7A2 |
| Synonyms: | ATRC2; CAT2; HCAT2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



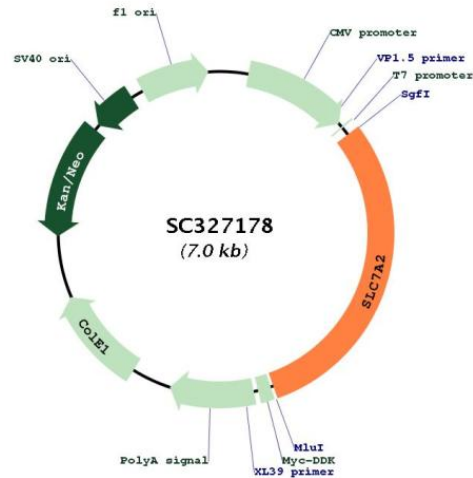
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Fully Sequenced ORF: >SC327178 representing NM_001164771.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
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CCACCGGTTTGCACAGCAAGTTCTCCTGTCGCCTTCGTGACAGCTCAGAATGATTCTTCGACAGCC
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001164771

Insert Size: 2097 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: 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_001164771.1](#)

RefSeq Size: 7580 bp

RefSeq ORF: 2097 bp

Locus ID: 6542

UniProt ID: [P52569](#)

Cytogenetics: 8p22

Protein Families: Druggable Genome, Transmembrane

MW: 76 kDa

Gene Summary: 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]

Transcript Variant: This variant (3) includes an alternate in-frame exon in the central coding region, compared to variant 1, resulting in an isoform (3) that is longer than isoform 1. This variant may include additional exon structure in the 5' UTR, but the nature of any additional structure is unclear due to the lack of 5'-complete transcript data for this variant and the presence of alternative splicing choices further upstream.