

Product datasheet for **SC321833**

SLC23A1 (NM_152685) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC23A1 (NM_152685) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC23A1
Synonyms:	SLC23A2; SVCT1; YSPL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_152685.2
 CTCTTCTCCTCAGGAAGTCTCAAACCTGTGCCCAAAGATGAGGGCCAGGAGGACCTC
 GAGGGCCGGACACAGCATGAAACCACAGGGACCCTCGACCCCGCTACCCACAGAGCCT
 AAGTTTGACATGTTGTACAAGATCGAGGACGTGCCACCTTGGTACCTGTGCATCCTGCTG
 GGCTTCCAGCACTACCTGACATGCTTCAAGTGTACCATCGCCGTGCCCTTCTGCTGGCT
 GAGGCGCTGTGTGGGCCACGACCAGCACATGTTAGTCAGCTCATCGGCACCATCTTC
 ACGTGCCTGGGCATCACCACTCTCATCCAGACCACCGTGGGCATCCGGCTGCCGCTGTTT
 CAGGCCAGTGCCTTTGCATTTCTGGTTCCAGCCAAAGCCATACTGGCTCTGGAGAGATGG
 AAATGCCCCCGAAGAGGAGATCTACGGTAAGTGGAGTCTGCCCTGAACACCTCTCAT
 ATTTGGCACCCACGGATACGGGAGGTGGGTTTGCATGTCCAGGGTGAATCATGGTGTCC
 AGCGTGGTGGAGGTGGTATTGGCTGTGGGGCTGCCTGGGGCCCTGCTCAACTACATT
 GGGCCTCTCACAGTACCCCCACTGTCTCCCTATTGGCCTTTCTGTCTTCAAGCTGCT
 GGGCACCAGCTGGCTCCACTGGGGCATCTCAGCTTGTCCATTCTCCTGATCATCCTC
 TTCTCCAGTACCTGCGCAACCTCACCTTCTGCTGCCTGTCTACCGCTGGGCAAGGGC
 CTCACTCTCCTCCGCATCCAGATCTTCAAATGTTTCTATCATGCTGGCCATCATGACC
 GTGTGGCTGCTCTGCTATGTCTGACCTTGACAGACGTGTGCCACAGACCCAAAGCC
 TATGGCTTCCAGGCACGAACCGATGCCCGTGGTACATCATGGCTATTGCACCCTGGATC
 CGCATCCCTACCCCTGTGAGTGGGGCCTGCCACGGTACTGCGGCTGTGTCTGGGA
 ATGTTACAGCGCCACTCTGGCAGGCATCATTGAGTCCATCGGAGATTACTACGCTGTGCC
 CGCCTGGCTGGTGCACCACCCCTCCAGTACATGCTATCAACAGGGGCATCTTACCAGAA
 GGCATTTGCTGCATCATCGGGGGCTATTGGGCACGGCAACGGGTCCACCTCGTCCAGT
 CCCAACATTGGCGTCTGGGAATTACCAAGTGGGCAGCCGGCGCGTGGTGCAGTATGGT
 CCGGCTATCATGCTGGTCTGGGCACCATCGGCAAGTTCAGGGCCCTCTCGCCTCGCTC
 CCTGACCCCATCCTGGGGGCATGTTCTGCACTCTCTTTGGCATATTACAGCTGTGGGG
 CTGTCCAACCTGCAATTTGTGGACATGAACTCCTCTCGCAACCTTCTGCTGGGATTT
 TCCATGTTCTTGGGGCTCAGCTGCCCAATTACCTGGAGTCCAACCCTGGCGCCATCAAT
 ACAGGCATTTTGAAGTGGATCAGATTCTGATTGTGCTGCTGACCACGGAGATGTTTGTG
 GGCGGGTGCCTTGTCTTCACTTGACAACACAGTGCCAGGGAGCCAGAGGAGCGTGGT
 CTGATACAGTGGAAAGCTGGGGCTATGCCAACAGTGACATGTCTTCCAGCCTCAAGAGC
 TACGATTTCCCATTTGGGATGGGCATAGTAAAAAGAATTACCTTTCTGAAATACATTCT
 ATCTGCCAGTCTTCAAAGGATTTTCTTCAAGTTCAAAAGATCAGATTGCAATTCAGAA
 GCACTCCAGAAAATACAGAAACTGCATCTGTGTGCACCAAGGTCTGAAAATGACTTCC
 AGGAAAGGAAGCATGGTATATAACAGGAAAAGAAAACATAGGGGAACCAAGACCTA
 AGCCTGAAATCCAGCCCTGCCCTAACTAACTTCTGTGTAAGTCAAGTCACTT
 TCTCTGGGATTCAAATTTTGCATCAGTTAAAAAAAAGGGTGGGGGGGAAATGGGCCAA
 AGTCTGAGTCTTAGAGACTTGTACCAATGTTATGCTATGTCTCTAAATCTTACTCTCT
 AAGTAGACTTGTGAGCATCTAGGAAGAAGAGCTAGAAAATTTCTCTGTGATATTTTGA
 CTGCAAGTTGAAAAAATAAAAAAGAAATGAGGGCAGGTTCCAGGGCCTGAAATGTAGGTA
 TGCTGCAAGGCTTTTACATTGAATTTGACCCTACATCACTTCAAGACTAATGCATAATAT
 TAAACATCATGTTGAAGAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_152685

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_152685.2](#), [NP_689898.2](#)

RefSeq Size: 2338 bp

RefSeq ORF: 1809 bp

Locus ID: 9963

UniProt ID: [Q9UHI7](#)

Cytogenetics: 5q31.2

Protein Families: Transmembrane

Gene Summary: The absorption of vitamin C into the body and its distribution to organs requires two sodium-dependent vitamin C transporters. This gene encodes one of the two transporters. The encoded protein is active in bulk vitamin C transport involving epithelial surfaces. Previously, this gene had an official symbol of SLC23A2. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]
 Transcript Variant: This variant (2) uses an in-frame alternative donor splice site at one of the internal coding exons compared to transcript variant 1. This results in an isoform (b) with 4 additional aa compared to isoform a.