

Product datasheet for **SC314150**

SLC23A1 (NM_005847) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Tag: Tag Free

Symbol: SLC23A1

Synonyms: SLC23A2; SVCT1; YSPL3

Vector: pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for NM_005847, the custom clone sequence may differ by one or more nucleotides

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ATGAGGGCCAGGAGGACCTCGAGGGCCGGACACAGCATGAAACCACCAGGGACCCCTCG
ACCCCGCTACCCACAGAGCCTAAGTTTGACATGTTGTACAAGATCGAGGACGTGCCACCT
TGGTACCTGTGCATCCTGCTGGGCTTCCAGCACTACCTGACATGCTTCAGTGGTACCATC
GCCGTGCCCTTCTGCTGGCTGAGGCGCTGTGTGGGCCACGACCAGCACATGGTTAGT
CAGCTCATCGGCACCATCTTCACGTGCGTGGGCATCACCCTCTCATCCAGACCACCGTG
GGCATCCGGCTGCCGCTGTTCCAGGCCAGTGCCTTTGCATTTCTGGTTCAGCCAAAGCC
ATACTGGCTCTGGAGAGATGGAATGCCCCCGGAAGAGGAGATCTACGGTAACTGGAGT
CTGCCCTGAACACCTCTCATATTTGGCACCCACGGATACGGGAGGTCCAGGGTGAATC
ATGGTGTCCAGCGTGGTGGAGGTGGTATTGGCCTGCTGGGGCTGCCTGGGGCCCTGCTC
AACTACATTGGGCCTCTCACAGTCACCCCACTGTCTCCCTCATTGGCCTTTCTGTCTTC
CAAGCTGCTGGCGACCGAGCTGGCTCCCACTGGGGCATCTCAGCTTGCTCCATTCTCCTG
ATCATCTCTTCTCCAGTACCTGCGCAACCTCACCTTCTGCTGCCTGTCTACCGCTGG
GGCAAGGGCCTCACTCTCTCCGCATCCAGATCTCAAATGTTTCTATCATGCTGGCC
ATCATGACCGTGTGGCTGCTGCTATGTCTGACCTTGACAGACGTGCTGCCACAGAC
CCAAAAGCCTATGGCTTCCAGGCACGAACCGATGCCCGTGGTGACATCATGGCTATTGCA
CCCTGGATCCGCATCCCTACCCCTGTGAGTGGGGCTGCCACGGTGACTGCGGCTGCT
GTCTGGGAATGTTGAGCGCACTCTGGCAGGCATCATTGAGTCCATCGGAGATTACTAC
GCCTGTGCCCGCCTGGCTGGTGCACCAACCCCTCCAGTACATGCTATCAACAGGGGCATC
TTCACCGAAGGCATTTGCTGCATCATCGCGGGGCTATTGGGCACGGGCAACGGGTCCACC
TCGTCCAGTCCCAACATTGGCGTCTGGGAATTACCAAGGTGGGCAGCCGGCGCGTGGTG
CAGTATGGTGCGGCTATCATGCTGGTCTGGGCACCATCGGCAAGTTCAGGCCCTCTTC
GCCTCGCTCCCTGACCCATCCTGGGGGATGTTCTGCACTCTCTTTGGCATGATTACA
GCTGTGGGGCTGTCCAACCTGCAATTTGTGGACATGAACCTCTCTCGAACCTCTTCGTG
CTGGGATTTTCCATGTTCTTCGGGCTCACGCTGCCAATTACCTGGAGTCCAACCTGGC
GCCATCAATACAGGCATTCTTGAAGTGGATCAGATTCTGATTGTGCTGCTGACCACGGAG
ATGTTTGTGGGCGGTGCCTTGTCTTCTACTTGACAACACAGTGCCAGGGAGCCAGAG
GAGCGTGGTCTGATACAGTGGAAGCTGGGGCTCATGCCAACAGTGACATGTCTTCCAGC
CTCAAGAGCTACGATTTCCCATTTGGGATGGGCATAGTAAAGAATTACCTTCTGAAA
TACATTCCTATCTGCCAGTCTTCAAAGGATTTTCTTCAAGTTCAAAGATCAGATTGCA
ATTCCAGAAGACACTCCAGAAAATACAGAACTGCATCTGTGTGCCCAAGGTC
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Restriction Sites:	Please inquire
ACCN:	NM_005847
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_005847.3</u> , <u>NP_005838.3</u>
RefSeq Size:	2326 bp
RefSeq ORF:	1797 bp
Locus ID:	9963
UniProt ID:	<u>Q9UHI7</u>
Cytogenetics:	5q31.2
Domains:	xan_ur_permease
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 (1) represents the more predominant transcript and encodes the shorter isoform (a).