

Product datasheet for **SC116937**

SLC23A2 (NM_005116) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC23A2 (NM_005116) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC23A2
Synonyms:	NBTL1; SLC23A1; SVCT2; YSPL2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116937 sequence for NM_005116 edited (data generated by NextGen Sequencing)

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ATGATGGGTATTGGTAAGAATACCACATCCAAATCAATGGAGGCTGGAAGTTCAACAGAA
GGCAAATACGAAGACGAGGCAAAGCACCCAGCTTTCTCACTCTTCCGGTGGTGATAAAT
GGAGGCGCCACCTCCAGCGGTGAGCAGGACAATGAGGACACTGAGCTCATGGCGATCTAC
ACTACGGAAAACGGCATTGCAGAAAAGAGCTCTCTCGTGAGACCCTGGATAGCACTGGC
AGTCTGGACCCCAAGCGATCAGACATGATTTATACCATAGAAGATGTTCCCTCCCTGGTAC
CTGTGTATATTTCTGGGGCTACAGCACTACCTGACATGCTTCAGCGGCACGATCGCAGTG
CCCTTCTGTGGCTGATGCCATGTGTGTGGGGTACGACCACTGGGCCACCCAGCCAGCTC
ATTGGGACCATTTTCTTCTGTGTGGGAATCACTACTTTGTACAGACAACGTTTGGATGC
AGGTTACCCTGTTTCAGGCCAGTGCTTTTGCATTTTGGCCCTGCTCGAGCCATCCTG
TCTTTAGATAAATGAAATGTAACACCACAGATGTTTCAGTTGCCAATGGAACAGCAGAG
CTGTTGCACACAGAACACATCTGGTATCCCCGGATCCGAGAGATCCAGGGGGCCATCATC
ATGTCCTCACTGATAGAAGTAGTCATCGGCCTCCTCGGCCTGCCTGGGGCTCTACTGAAG
TACATCGTCCCTTGACCATTACACCCACGGTGGCCCTAATTGGCCTCTCTGGTTTCCAG
GCAGCGGGGAGAGAGCCGGGAAGCACTGGGGCATTGCCATGCTGACAATATTCCTAGTA
TACTGTTTTCTCAATACGCCAGAAATGTTAAATTTCTCTCCCGATTTATAAATCCAAG
AAAGGATGGACTGCGTACAAGTTACAGCTGTTCAAATGTTCCCTATCATCCTGGCCATC
CTGGTATCCTGGCTGCTCTGCTTCACTTACCGGTGACAGATGTCTTCCCTCCCGACAGC
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TGGTTTAAAGTTCCATACCCATTTCAAGTGGGACTGCCACCGTGTCTGCGGCCGGTGTG
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TGTGCACGGCTGTCTGTGCCCCACCCCTCCACGCAATAAACAGGGGAATTTTC
GTGGAAGGCCTCTCCTGTGTTCTTGATGGCATATTTGGTACTGGGAATGGCTCTACTTCA
TCCAGTCCCAACATTGGAGTTTTGGGAATTACAAAGGTCGGCAGCCGCCGCTGATACAG
TGCGGAGCAGCCCTCATGCTCGCTCTGGGCATGATCGGGAAGTTCAGCGCCCTCTTGGC
TCCCTTCCGGATCCTGTGCTGGGAGCCCTGTTCTGCACGCTCTTGGAAATGATCACAGCT
GTTGGCCTCTAACCTGCAGTTCATTGATTTAAATTTCTCCCGAACCTCTTGTGCTT
GGATTTTCGATCTTCTTGGGCTCGTCTTCCAAGTTACCTCAGACAGAACCCTCTGGTC
ACAGGGATAACAGGAATCGATCAAGTGTGAACGTCCTTCTCACAACTGCTATGTTTGA
GGGGCTGTGTGGCTTTTATCCTGGATAACACCATCCAGGCACTCCAGAGGAAAGAGGA
ATCCGGAATGGAAGAAGGGTGTGGGCAAAGGGAACAAATCACTCGACGGCATGGAGTCC
TACAATTTGCCATTTGGCATGAACATTATAAAAAATACAGATGCTTCAGCTACTTACCC
ATCAGCCCAACCTTTGTGGGCTACACATGGAAAGGCCTCAGGAAGAGCGACAACAGCCGG
AGTTCAGATGAAGACTCCAGGCCACGGGATAG
    
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Clone variation with respect to NM_005116.5
 375 c=>t

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005116 unedited</p> <pre>TGTAATACGACTCACTATAGGGCGGCNCGCGAATTCGCACGAGGCGGAGGCGGAGGCTGC AGCGGGCACTGCGGGCCCGAGGCGCGGCGGAGGACGGGAACCGCGAGCTGCAGCCAG GTCTTGACTCCACTAACGGGGACTTCTCATACGGCTTTGAACTTGGACCTTGGTGCAATA GCAATGTAACCTAGCGAATTGTAATGGAAAGCATATGGACAGGTCTACGCCACATCACT TAGGTGCTAAGAGATGCCGTTTGCAGGCCTCATCTCGCTTGAGAATCGGGGGCTCCAGG CACTAGAAGAGCCGGCTGATCCTGGGCTCCTAGCTTGAATAAGCCTTCACTTCCAGCTGC TCTCCCAACGGCTGTGTAACCTACTCGTTTCTTAAATGATGGGTATTGGTAAGAATAC CACATCCAAATCAATGGAGGCTGGAAGTTCAACAGAAGGCAAATACGAAGACGAGGCAAA GCACCCAGCTTTTCTCACTCTTCCGGTGGTGATAAATGGAGGCGCCACCTCCAGCGGTGA GCAGGACAATGAGGACACTGAGCTCATGGCGATCTACACTACGAAAAACGGCATTGCAGA AAAGAGCTCTCTCGTGAGACCTGGATAGCACTGGCAGTCTGGACCCCAAGCGATCAGA CATGATTTATACCATAGAAGATGTTCTCCCTGGTACCTGTGTATATTTCTGGGGCTACA GCACTACCTGACATGCTTACGCGGCACGATCGCAGTGCCTTCTGTTGGCTGATGCCAT GTGTGTGGGGTACGACCAGTGGGCCACCAGCCAGCTCATTGGGACCATTTTCTTCTGTGT GGGAATCACTACNTTGCTACAGACCACGTTGGATGCANGTTACCCCTGNTTCANGCCAG TGCTTTGCATTNTTGGNCCTGCTCG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005116 unedited</p> <pre>NAAATACTGNACCGCGCCGCTTCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTGTGCCA GGAGACTTTTATTTGTACGGAACAGTTTTAAAAATACAGAATAAAATAGCTTTATCTCTA CTATTATTCACAACATCTGGTCCAAATATTACATATTTTTAAAAACTTAAACGTTTAAAT GAAGCCATGTTAGAAAAACAATATGAAAATTTCTTTTAAAAAACCATAAAAGAATTACA CATCTCAAAAAACAACCCCAACCCAAATACCCTCGGTAATCAAAAATAAAAATAAAAAACA AACAAAACCCAGAAAGGTATATATAGCCAAAGTCAGTCACAAAAACTCAAGGAAAATAT AGGCATCCCCACTGTTTTAAGAACAGTCAGAAATGTATTAAGGTGTCAAATGAAGATTGT TACTAACGAACAAAAAAGGAGAGTCATTTGAACTGTGAGTAAAGATGGCAACGTGGGGAAG GGTGTCCCTAAGTGCCTGGAAACACGCACAGCAATGCTAAGGACATGGGAGGGTAGAGTGA TGCTGAAACACAGTCAACACCAACCAGAAAGGACGGGAATGTCTGTGAGGCTGCTGAAAA GAGACCCCAACGCTAATGTGCCTTATGGGTCCATGGGCAGACGCTGAACGCTGGCAAAA CCGGGTGGCCGTTCTTGCACTACTCGGGTCTGACTGCAGGAGGGGCAGAGGGTGTGCGA TGTCTAGTCCCTGTGTCTAAAAAGTCATGAGGGGACAGAGTACAACAGGCAGCACGTTA AGTCCCTGGGCTCTTTCCAAAGCCAAGAGGAGGCTCCCTGGAGAAGCGAGCTTTGCGAA TGGCTCAGCCCGGAGCCGCACACTAACGCGGCGTGCANCAAGTGTGGCTGGGTGTGCACA GCTGGCGTCCAGCGACAGCCT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005116
Insert Size:	6880 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).
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_005116.5, NP_005107.4</u>
RefSeq Size:	6953 bp
RefSeq ORF:	1953 bp
Locus ID:	9962
UniProt ID:	<u>Q9UGH3</u>
Cytogenetics:	20p13
Domains:	xan_ur_permease
Protein Families:	Transmembrane
Gene Summary:	<p>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 required transporters and the encoded protein accounts for tissue-specific uptake of vitamin C. Previously, this gene had an official symbol of SLC23A1. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) occurs more frequently. Variants 1 and 2 encode the same isoform.</p>