

Product datasheet for **SC119950**

SLC2A2 (NM_000340) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC2A2 (NM_000340) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC2A2
Synonyms:	GLUT2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_000340, the custom clone sequence may differ by one or more nucleotides

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ATGACAGAAGATAAGGTCACCTGGGACCCTGGTTTTCACTGTCATCACTGCTGTGCTGGGTTCCCTCCAGT
TTGGATATGACATTGGTGTGATCAATGCACCTCAACAGGTAATAATATCTCACTATAGACATGTTTTGGG
TGTTCCACTGGATGACCGAAAAGCTATCAACAACATGTTATCAACAGTACAGATGAACTGCCACAATC
TCATACTCAATGAACCCAAAACCAACCCCTGGGCTGAGGAAGAGACTGTGGCAGCTGCTCAACTAATCA
CCATGCTCTGGTCCCTGTCTGTATCCAGCTTTGCAGTTGGTGGAAATGACTGCATCATTCTTTGGTGGGTG
GCTTGGGGACACACTTGAAGAATCAAAGCCATGTTAGTAGCAAACATTCTGTCATTAGTTGGAGCTCTC
TTGATGGGTTTTCAAAATTGGGACCATCTCATATACTTATAATTGCTGGAAGAAGCATATCAGGACTAT
ATTGTGGGCTAATTTCAGGCCTGGTTCCCTATGTATATCGGTGAAATTGCTCCAACCGCTCTCAGGGGAGC
ACTTGGCACTTTTCATCAGCTGGCCATCGTCACGGGCATTCTTATTAGTCAGATTATTGGTCTTGAATTT
ATCTTGGGCAATTATGATCTGTGGCACATCCTGCTTGGCCTGTCTGGTGTGCGAGCCATCCTTCAGTCTC
TGCTACTCTTTTTCTGTCCAGAAAGCCCAAGATACCTTTACATCAAGTTAGATGAGGAAGTCAAAGCAA
ACAAAGCTTGAAAAGACTCAGAGGATATGATGATGTCACCAAAGATATTAAATGAAATGAGAAAAGAAAGA
GAAGAAGCATCGAGTGAGCAGAAAGTCTCTATAATTCAGCTCTTCAACAATCCAGCTACCGACAGCCTA
TTCTAGTGGCACTGATGCTGCATGTGGCTCAGCAATTTCCGGAATCAATGGCATTCTTTACTACTCAAC
CAGCATTCTTTCAGACGGCTGGTATCAGCAAACCTGTTTATGCAACCATTGGAGTTGGCGCTGTAACATG
GTTTTCACTGCTGCTCTGTATTCTTGTGGAGAAGGCAGGGCGACGTTCTCTTTCTAATTGGAATGA
GTGGGATGTTGTTTGTGCCATCTTCATGTCAGTGGGACTTGTGCTGCTGAATAAGTTCTCTTGGATGAG
TTATGTGAGCATGATAGCCATCTTCTCTTGTGAGCTTCTTGAATTTGGCCAGGCCGATCCCCTGG
TTCATGGTGGCTGAGTTTTTCAGTCAAGGACCAGTCTGCTGCTTTCAGCAATAGCTCAGCAATT
GGACCTGCAATTTCAATTGAGCTGTGTTTTCCAGTACATTGCGGACTTCTGTGGACCTTATGTGTTTTT
CCTCTTTGCTGGAGTGCTCCTGGCCTTTACCCTGTTACATTTTTTAAAGTTCCAGAAACCAAAGGAAAG
TCTTTTGAAGAAATTGCTGCAGAATCCAAAAGAAGAGTGGCTCAGCCCACAGGCCAAAAGCTGCTGTAG
AAATGAAATTCCTAGGAGCTACAGAGACTGTGTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000340 unedited

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TCAGAATTTGTAATAGACTCATATAGGCGGCCGACATTTCGCACCANACCTGGAATTGA
CAGGACTCCCAACTAGTACAATGACAGAAGATAAGGTCACCTGGGACCCTGGTTTTCACTG
TCATCACTGCTGTGCTGGGTTCCCTCCAGTTTGGATATGACATTGGTGTGATCAATGCAC
CTCAACAGGTAATAATATCTCACTATAGACATGTTTTGGGTGTTCCACTGGATGACCGAA
AAGCTATCAACAACATGTTATCAACAGTACAGATGAACTGCCACAATCTCATACTCAA
TGAACCCAAAACCAACCCCTGGGCTGAGGAAGAGACTGTGGCAGCTGCTCAACTAATCA
CCATGCTCTGGTCCCTGTCTGTATCCAGCTTTGCAGTTGGTGGAAATGACTGCATCATTCT
TTGGTGGGTGGCTTGGGACACACTTGAAGAATCAAAGCCATGTTAGTAGCAAACATTC
TGTCATTAGTTGGAGCTCTTGTATGGGTTTTCAAAATTGGGACCATCTCATATACTTA
TAATTGCTGGAAGAAGCATATCAAGACTATATTGTGGGCTAATTTCAAGCCTGGTTCCTA
TGTATATCGGTGAAATTGCTCCAACCGCTCTCAGGGGAGCACTTGGCACTTTTCATCAGC
TGGCCATCGTCACGGGCATTCTTATTAGTCAGATTATTGGTCTTGAATTTATCTTNGCA
ATTATGATCTGTGGCACATCCTGCTTGGCCTGTCTGGTGTGCGAGCCATCCTTCAGTCTC
TGCTACTCTTTTTCTGTCCAGAAAGCCCAAGATACCTTTACATCAAGTTAGATGAANGAA
GTCAAAGCAAANCANAGCTTGNANAGACTCAGAAGATATGATGATGTCACCANAGATCTT
AATGGAAGTGAAGAAGAAGAGAAGGCCTCGAGTGAGCCAGAAGTCTCTATATTCAT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000340 unedited NTTATCTCTGNNACCGCGCCGCAATCTANNGATCGGTTTTTTTTTTTTTTTTTAAACAA AGTGATCAATCCTTTACTTCAAATTTTCTTACATTAGATTTGATCAAACCTATTAGGAAT TTGAGGTAATATACCAATGTCTGACTCATGATTGTTGAGTGTATGTGAAAACCAAGGCT GTCCTCAATTAAGCAAGCAAACTATAACTCAAAGGATTGTACCAGAAGGGAATCAA CATGGTTTTATAATAGATGTTAATGTTAACTGATAACCCACGCTATATGATCAGGTGAAA CCTTTTTAGTGTTAAATCTTGCAAAAACCATTTGGCCATTAATAAAGGAACTAAAATGG TTTTCTTTCTGAGTGCTGAAAGATTTTGATAAGCCTACCAAAAATGAAAGTTTTTCTCT ATAGACATTTTTAGTATACTCTATAATCCATTCCACATGAAAATACAGAACAAAAGTAA AATTTTAAGCAAAAATACAAATTCTAGTACTCAAGAAAAAGCTGAGTGCAATAAATGGAA GAGTTGTCTATTTAACATGGAACCTATTGCCACTAGCCATATCTCCTTTAACATAAGAT ATATGGGTAAGAAAATCCAATTTAATGATATTCAAATATATAAATATTTGTTGCATCCT CAGGTTTCTAGTTATGTGTTAAAAAATGATATGTTGAAATCTCTCAATTTTAGAAGAA CCTTGTATAAAGAACAGAGCTAAAAATTTAGAACACCTGCCCTTTTAGTGAACAAA ATAACTAGCCTTTTNTGGTTTACTTAATTACAGTCTTACCATCAAAAATATATTCTCTA ACTTAAAAATACTTNNNTNGGNTATATTGATGACATTNCTGATGAGAGCACTTAAAAATA ACATACTTAANNGATGTGATATAAATGCTCAGGAATCATCATTTAACAGACGGTCCCTT TTNGGTT
Restriction Sites:	NotI-NotI
ACCN:	NM_000340
Insert Size:	2500 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
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:	NM_000340.1 , NP_000331.1

RefSeq Size:	3439 bp
RefSeq ORF:	1575 bp
Locus ID:	6514
UniProt ID:	P11168
Cytogenetics:	3q26.2
Domains:	sugar_tr
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Maturity onset diabetes of the young, Type II diabetes mellitus
Gene Summary:	<p>This gene encodes an integral plasma membrane glycoprotein of the liver, islet beta cells, intestine, and kidney epithelium. The encoded protein mediates facilitated bidirectional glucose transport. Because of its low affinity for glucose, it has been suggested as a glucose sensor. Mutations in this gene are associated with susceptibility to diseases, including Fanconi-Bickel syndrome and noninsulin-dependent diabetes mellitus (NIDDM). Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments and experimental data in the literature (PMID: 11978637).</p>