

Product datasheet for **SC311295**

SLC5A10 (NM_001042450) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A10 (NM_001042450) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC5A10
Synonyms:	SGLT-5; SGLT5
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_152351, the custom clone sequence may differ by one or more nucleotides

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ATGGCCGCCAACTCCACCAGCGACCTCCACACTCCCGGGACGCAGCTGAGCGTGGCTGACATCATCGTCA
TCACTGTGTATTTTGTCTGAATGTGGCGTGGGCATATGGTCTCTTGTGGGCCAGTAGGAACACGGT
GAATGGCTACTTCTGGCAGGCCGGGACATGACGTGGTGGCCGATTGGAGCCTCCCTCTTGGCCAGCAGC
GAGGGCTCTGGCCTCTTATTGGACTGGCGGGCTCAGGCCGGCAGGAGGTCTGGCCGTGGCAGGCTTCG
AGTGGAATGCCACGTACGTGCTGCTGGCACTGGCATGGGTGTTCTGTGCCATCTACATCTCCTCAGAGAT
CGTCACCTTACCTGAGTACATTCAGAAGCGCTACGGGGGCCAGCGGATCCGCATGTACCTGTCTGTCTG
TCCCTGCTACTGTCTGTCTTACCAAGATATCGCTGGACCTGTACGGGGGGCTGTGTTGTGCACATCT
GCCTGGGTGGAACCTTACCTCTCCACCATCCTCAGCTCGGCATCACAGCCCTGTACACCATCGCAGG
GGGCTGGCTGTGTAATCTACACGGACGCCCTGCAGACGCTCATCATGGTGGTGGGGGCTGCATCCTG
ACAATCAAAGCTTTTACCAGATCGGTGGTTACGGGCAGCTGGAGGCAGCCTACGCCAGGCCATCCCT
CCAGGACATTGCCAACACCACCTGCCACCTGCCACGTACAGACGCCATGCACATGTTTCGAGACCCCA
CACAGGGGACCTGCCGTGGACCGGGATGACCTTTGGCCTGACCATCATGGCCACCTGGTACTGGTGACC
GACCAGGTCACTGTCAGCGATCACTGTGACCCGGGACCTGAACCATGCCAAGGCGGGCTCCATCCTGG
CCAGCTACCTCAAGATGCTCCCATGGGCTGATCATCATGCCGGCATGATCAGCCGCGCATTGTTCC
AGGTGCTCATGTCTATGAGGAGAGACACCAAGTGTCCGTCTCTCGAACAGATGATGTGGGCTGCGTGGT
CCGTCCGAGTGCCTGCGGGCCTGCGGGGCGGAGGTCGGTGTCCAAACATCGCCTACCCCAAGCTGGTCA
TGGAACTGATGCCATCGGTCTGCGGGGCTGATGATCGCAGTGTGCTGGCGGCGCTCATGTCTGCTGCT
GACCTCCATCTTCAACAGCAGCAGCACCCCTCTTCACTATGGACATCTGGAGGCGGCTGCTCCCGCTCC
GGCAGCGGGGAGCTCCTGCTGGTGGGACGGCTGGTCAATGTCAGTGTGCTGCTGCTGCTGCTGCTGCT
TCCCCGTCTGCAGGACTCCAACAGCGGGCAACTTTCATCTACATGCAGTCAAGTCAAGTCAAGTCAAGT
CCCACAGTGACTGCAGTCTTTGTCTGGGCGTCTTCTGGCGACGTGCCAACGAGCAGGGGGCTTCTGG
GGCCTGATAGCAGGGCTGGTGGTGGGGCCACGAGGCTGGTCTGGAATTCCTGAACCCAGCCCCACCGT
GCGGAGAGCCAGACACGCGGCCAGCCGCTCTGGGAGCATCCACTACCTGCACTTCGCTGTCCGCTCTT
TGCACCTCAGTGGTGTGTTGTGGTGGTGGAAAGCCTGCTGACCCACCCACAGAGTGTCCAGATTGAG
AACCTTACCTGGTGGACCCTGGCTCAGGATGTGCCCTTGGAACTAAAGCAGGTGATGGCCAAACACCC
AGAAACACGCCTTCTGGGCCGTGTGTGGCTCAATGCCATCCTCCTCATGTGTGTAACATATTCTT
TTATGCCTACTTCGCTGA
    
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Restriction Sites: Please inquire

ACCN: NM_001042450

Insert Size: 2000 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](#)

OTI Annotation:	The ORF of this clone is found to be a perfect match to NM_001042450.1.
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_001042450.1, NP_001035915.1</u>
RefSeq Size:	2092 bp
RefSeq ORF:	1791 bp
Locus ID:	125206
UniProt ID:	<u>A0PJK1</u>
Cytogenetics:	17p11.2
Protein Families:	Transmembrane
Gene Summary:	<p>This gene is a member of the sodium/glucose transporter family. Members of this family are sodium-dependent transporters and can be divided into two subfamilies based on sequence homology, one that co-transporters sugars and the second that transports molecules such as ascorbate, choline, iodide, lipoate, monocarboxylates, and pantothenate. The protein encoded by this gene has the highest affinity for mannose and has been reported to be most highly expressed in the kidney. This protein may function as a kidney-specific, sodium-dependent mannose and fructose co-transporter. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jul 2012]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.</p>