

Product datasheet for **SC318049**

SLC5A10 (NM_152351) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A10 (NM_152351) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC5A10
Synonyms:	SGLT-5; SGLT5
Vector:	<u>pCMV6 series</u>



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- Fully Sequenced ORF:** >NCBI ORF sequence for NM_152351, the custom clone sequence may differ by one or more nucleotides
 ATGGCCGCAACTCCACCAGCGACCTCCACACTCCCGGGACGCAGCTGAGCGTGGCTGAC
 ATCATCGTCATCACTGTGTATTTTGGCTCTGAATGTGGCCGTGGGCATATGGTCCTTGT
 CGGGCCAGTAGGAACACGGTGAATGGCTACTTCCTGGCAGGCCGGGACATGACGTGGTGG
 CCGATTGGAGCCTCCCTCTTCGCCAGCAGCGAGGGCTCTGGCCTCTTATTGGACTGGCG
 GGCTCAGGCGCGCAGGAGGTCTGGCCGTGGCAGGCTTCGAGTGAATGCCACGTACGGT
 CTGCTGGCACTGGCATGGGTGTTTCGTGCCATCTACATCTCCTCAGAGATCGTCACCTTA
 CCTGAGTACATTAGAAGCGCTACGGGGCCAGCGGATCCGCATGTACCTGTCTGTCTGCTG
 TCCCTGCTACTGTCTGTCTTACCAAGATATCGCTGGACCTGTACGCGGGGGCTCTGTTT
 GTGCACATCTGCCTGGGCTGGAACCTTCTACCTCTCCACCATCCTCAGCTCGGCATCACA
 GCCCTGTACACCATCGCAGGGGGCCTGGCTGCTGAATCTACACGGACGCCCTGCAGACG
 CTCATCATGGTGGTGGGGCTGTATCCTGACAATCAAAGCTTTTGACCAGATCGGTGGT
 TACGGGCAGCTGGAGGCAGCCTACGCCAGGCCATTCCCTCCAGGACCATTGCCAACACC
 ACCTGCCACCTGCCACGTACAGACGCCATGCACATGTTTCGAGACCCCCACAGGGGAC
 CTGCCGTGGACCGGGATGACCTTTGGCCTGACCATCATGGCCACCTGGTACTGGTGCACC
 GACCAGGTCATCGTGCAGCGATCACTGTGAGCCCGGGACCTGAACCATGCCAAGGCGGGC
 TCCATCCTGGCCAGCTACCTCAAGATGCTCCCCATGGGCCTGATCATCATGCCGGGCATG
 ATCAGCCGCGCATTGTTCCAGGTGCTCATGTCTATGAGGAGAGACCAAGTGTCCGTC
 TCTCGAACAGATGATGTGGGCTGCGTGGTGGCCTCCGAGTGCCTGCGGGCCTGCGGGGCC
 GAGGTGCGCTGCTCCAACATCGCTACCCCAAGCTGGTGCATGGAAGTGTGCCATCGGT
 CTGCGGGGGCTGATGATCGCAGTGTGCTGGCGGCGCTCATGTGTCGCTGACCTCCATC
 TTCAACAGCAGCAGCACCTCTTCACTATGGACATCTGGAGGCGGCTGCGTCCCCGCTCC
 GCGAGCGGGAGCTCCTGCTGGTGGGACGCTGGTGCATAGTGGCACTCATCGGCGTGAGT
 GTGGCCTGGATCCCCGCTCCTGCAGGACTCCAACAGCGGGCAACTCTTATCTACATGCAG
 TCAGTGACCAGCTCCCTGGCCCCACCAGTACTGCACTTTTGTCTGGGCGTCTTCTGG
 CGACGTGCCAACGAGCAGGGGGCCTTCTGGGGCCTGATAGCAGGGCTGGTGGTGGGGCC
 ACGAGGCTGGTCTGGAATTCCTGAACCCAGCCCCACCGTGGGAGAGCCAGACACGCGG
 CCAGCCGCTCTGGGGAGCATCCACTACCTGCACCTCGTGTGCGCCTCTTTGCACCTCAGT
 GGTGCTGTGTGGTGGCTGGAAGCCTGCTGACCCACCCCCACAGAGTGTCCAGATTGAG
 AACCTTACCTGGTGGACCCTGGCTCAGGATGTGCCCTTGGGAACAAAGCAGGTGATGGC
 CAAACACCCAGAAACACGCCTTCTGGGCCGTGTCTGTGGCTTCAATGCCATCCTCCTC
 ATGTGTGCAACATATTCTTTATGCTACTTCCGCC
- Restriction Sites:** Please inquire
- ACCN:** NM_152351
- 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.

RefSeq: [NM_152351.3](#), [NP_689564.3](#)

RefSeq Size: 2139 bp

RefSeq ORF: 1839 bp

Locus ID: 125206

UniProt ID: [A0PJK1](#)

Cytogenetics: 17p11.2

Protein Families: Transmembrane

Gene Summary: 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-transport 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]
Transcript Variant: This variant (1) encodes the longest isoform (1).