

Product datasheet for **SC119918**

SGLT1 (SLC5A1) (NM_000343) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGLT1 (SLC5A1) (NM_000343) Human Untagged Clone
Tag:	Tag Free
Symbol:	SGLT1
Synonyms:	D22S675; NAGT; SGLT1
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_000343 edited
 ATGGACAGTAGCACCTGGAGCCCCAAGACCACCGCGTCAACCGGCTGTTGAGACCCAC
 GAGCTCATTGCAATGCAGCCGATATCTCCATCATCGTTATCTACTTCGTGGTAGTGATG
 GCCGTCGGACTGTGGGCTATGTTTTCCACCAATCGTGGGACTGTTGGAGGCTTCTCCTG
 GCAGGCCGAAGTATGGTGTGGTGGCCGATTGGAGCCTCCCTCTTGTAGTAACATTGGA
 AGTGGCCACTTTGTGGGCTGGCCGGGACTGGGCAGCTTCAGGCATCGCCATTGGAGGC
 TTTGAATGGAATGCCCTGGTTTTGGTGGTGTGCTGGGCTGGCTGTTTGTCCCCATCTAT
 ATTAAGGCTGGGTGGTGAACAATGCCAGAGTACCTGAGGAAGCGGTTTGGAGGCCAGCGG
 ATCCAGGTCTACCTTTCCCTTCTGTCCCTGCTGCTCTACATTTTACCAAGATCTCGGCA
 GACATCTTCTCGGGGGCCATATTCATCAATCTGGCCTTAGGCCTGAATCTGTATTAGCC
 ATCTTTCTCTTATTGGCAATCACTGCCCTTACACAATTACAGGGGGCCTGGCGGCGGTG
 ATTTACACGGACACCTTGCAGACGGTGATCATGCTGGTGGGTCTTTAATCCTGACTGGG
 TTTGCTTTTACGAAGTGGGAGGCTATGACGCCTTCATGAAAAAGTACATGAAAGCCATT
 CCAACCATAGTGTCTGATGGCAACACCACCTTTCAGGAAAAATGTACACTCCAAGGGCC
 GACTCCTTCCACATCTTCCGAGATCCCCTCACGGGAGACCTCCCATGGCCTGGGTTTCATC
 TTTGGGATGTCCATCCTTACCTTGTGGTACTGGTGCACAGATCAGGTCATTGTGCAGCGC
 TGCTCTCAGCCAAGAATATGTCTCACGTGAAGGGTGGCTGCATCCTGTGTGGGTATCTA
 AAGCTGATGCCCATGTTTCATCATGGTATGCCAGGAATGATCAGCCGATTCTGTACACA
 GAAAAAATTGCCCTGTGTCGTCCCTTCCAGAAATGTGAGAAATATTGCCGTACCAAGTTGGC
 TGTACCAACATCGCCTATCCAACCTTAGTGGTGGAGCTCATGCCCAATGGACTGCGAGGC
 CTGATGCTATCAGTCATGCTGGCCTCCCTCATGAGCTCCCTGACCTCCATCTTCAACAGC
 GCCAGCACCTCTTACCATGGACATCTACGCCAAGTCCGCAAGAGAGCATCTGAGAAA
 GAGTCATGATTGCCGGAAGGTTGTTTATCCTGGTGTGATTGGCATCAGCATCGCCTGG
 GTGCCCATTTGTGCAAGTACGACACAAAGTGGGCAACTCTTCGATTACATCCAGTCCATCACC
 AGTTACTTGGGACCACCCATTGCGGCTGTCTTCTGCTTCTGCTATTTTCTGGAAGAGAGTC
 AATGAGCCAGGAGCCTTTTGGGACTGATCCTAGGACTTCTGATTGGGATTTACGTATG
 ATTACTGAGTTTGTCTTATGGAACCGGAGCTGCATGGAGCCCAGCAACTGTCCCACGATT
 ATCTGTGGGTTGCACTACTTGTACTTTGCCATTATCCTCTTCGCCATTTCTTTCATCACC
 ATCGTGGTCATCTCCCTCCTACCAAACCCATTCCGGATGTGCATCTCTACCGTCTGTGT
 TGGAGCCTGCGCAACAGCAAAGAGGAGCGTATTGACCTGGATGCGGAAGAGGAGAACATC
 CAAGAAGGCCCTAAGGAGACCATTGAAATAGAAACACAAGTTCTGAGAAGAAAAAGGA
 ATCTTCAGGAGAGCCTATGACCTATTTTGTGGGCTAGAGCAGCACGGTGCACCCAAGATG
 ACTGAGGAAGAGGAGAAAGCCATGAAGATGAAGATGACGGACACCTCTGAGAAGCCTTTG
 TGGAGGACAGTGTGAACGTCAATGGCATCATCCTGGTGACCGTGGCTGTCTTTTGCAT
 GCATATTTTGCCTGA

Restriction Sites: Please inquire

ACCN: NM_000343

Insert Size: 4700 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).

OTI Annotation: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_000343.1.

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:

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_000343.1](#), [NP_000334.1](#)

RefSeq Size: 2449 bp

RefSeq ORF: 1995 bp

Locus ID: 6523

UniProt ID: [P13866](#)

Cytogenetics: 22q12.3

Domains: SSF

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a member of the sodium-dependent glucose transporter (SGLT) family. The encoded integral membrane protein is the primary mediator of dietary glucose and galactose uptake from the intestinal lumen. Mutations in this gene have been associated with glucose-galactose malabsorption. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer 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.