

## Product datasheet for **SC332345**

### **SGLT1 (SLC5A1) (NM\_001256314) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SGLT1 (SLC5A1) (NM\_001256314) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** SGLT1  
**Synonyms:** D22S675; NAGT; SGLT1  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332345 representing NM\_001256314.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCCAGAGTACCTGAGGAAGCGGTTTGGAGGCCAGCGGATCCAGGTCTACCTTTCCCTTCTGTCCCTG
CTGCTCTACATTTTACCAAGATCTCGGCAGACATCTTCTCGGGGGCCATATTCAATCTGGCCTTA
GGCCTGAATCTGTATTTAGCCATCTTTCTTATTGGCAATCACTGCCCTTACACAATTACAGGGGGC
CTGGCGGGGTGATTTACACGGACACCTGCAGACGGTGATCATGCTGGTGGGTCTTTAATCCTGACT
GGGTTTGTCTTTACGAAGTGGGAGGCTATGACGCCTTCATGGAAAAGTACATGAAAGCCATTCCAAC
ATAGTGTCTGATGGCAACACCACCTTTTCAGGAAAATGCTACACTCCAAGGGCCGACTCCTTCCACATC
TTCCGAGATCCCCTCACGGGAGACCTCCCATGGCCTGGGTTCATCTTTGGGATGTCCATCCTTACCTTG
TGGTACTGGTGCACAGATCAGGTCATTGTGCAGCGCTGCCTCTCAGCCAAGAATATGTCTCACGTGAAG
GGTGGCTGCATCCTGTGTGGGTATCTAAAGCTGATGCCCATGTTTCATCATGGTGTGCCAGGAATGATC
AGCCGCATTCTGTACACAGAAAAAATTGCCTGTGTGTCCTTCAGAATGTGAGAAAATTTGCGGTACC
AAGTTGGCTGTACCAACATCGCCTATCCAACCTTAGTGGTGGAGCTCATGCCCAATGGACTGCGAGGC
CTGATGCTATCAGTCATGCTGGCCTCCCTCATGAGCTCCCTGACCTCCATCTTCAACAGCGCCAGCACC
CTCTTACCATGGACATCTACGCCAAGGTCCGCAAGAGAGCATCTGAGAAAAGAGCTCATGATTGCCGGA
AGGTTGTTTATCCTGGTGTGATTGGCATCAGCATCGCCTGGGTGCCCATTTGTGCAGTCAGCACAAGT
GGGCAACTCTTCGATTACATCCAGTCCATCACCAGTTACTTGGGACCACCCATTGCGGCTGTCTTCCCTG
CTTGCTATTTTCTGGAAGAGAGTCAATGAGCCAGGAGCCTTTTGGGGACTGATCCTAGGACTTCTGATT
GGGATTTACGTATGATTACTGAGTTTGCCTATGGAACCGGGAGCTGCATGGAGCCAGCAACTGTCCC
ACGATTATCTGTGGGTGCACTACTTGTACTTTGCCATTATCCTCTTCGCCATTTCTTTTCATCACCATC
GTGGTCATCTCCCTCCTACCAAACCCATTCCGGATGTGCATCTCTACCGTCTGTGTTGGAGCCTGCGC
AACAGCAAAGAGGAGCGTATTGACCTGGATGCGGAAGAGGAGAACATCCAAGAAGGCCCTAAGGAGACC
ATTGAAATAGAAACACAAGTTCTGAGAAGAAAAAAGGAATCTTCAGGAGAGCCTATGACCTATTTTGT
GGGCTAGAGCAGCAGGTGCACCAAGATGACTGAGGAAGAGGAGAAAGCCATGAAGATGAAGATGACG
GACACCTCTGAGAAGCCTTTGTGGAGGACAGTGTGAACGTCAATGGCATCATCCTGGTGACCGTGGCT
GTCTTTTCCATGCATATTTTGCCTGA
  
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001256314



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<b>Insert Size:</b>	1614 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001256314.1</a></u>
<b>RefSeq Size:</b>	4779 bp
<b>RefSeq ORF:</b>	1614 bp
<b>Locus ID:</b>	6523
<b>UniProt ID:</b>	<u><a href="#">P13866</a></u>
<b>Cytogenetics:</b>	22q12.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>MW:</b>	60.1 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks several 5' exons compared to variant 1. This variant represents translation initiation at a downstream AUG compared to variant 1; the 5'-most initiation codon, as used in variant 1, is associated with a weak Kozak sequence and a truncated ORF that would render the transcript a candidate for nonsense-mediated decay (NMD). Leaky scanning may allow translation initiation at the downstream AUG. The encoded protein (isoform 2) has a shorter N-terminus, compared to 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.</p>