

## Product datasheet for **RC234378**

### **SGLT1 (SLC5A1) (NM\_001256314) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SGLT1 (SLC5A1) (NM_001256314) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC5A1
Synonyms:	D22S675; NAGT; SGLT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234378 representing NM\_001256314  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCAGAGTACCTGAGGAAGCGGTTTGGAGGCCAGCGGATCCAGGTCTACCTTTCCCTTCTGTCCCTGC  
 TGCTCTACATTTTACCAAGATCTCGGCAGACATCTTCTCGGGGCCATATTCATCAATCTGGCCTTAGG  
 CCTGAATCTGTATTTAGCCATCTTTCTCTATTGGCAATCACTGCCCTTACACAATTACAGGGGCGCTG  
 GCGGCGGTGATTTACACGGACACCTTGCAGACGGTGATCATGCTGGTGGGGTCTTTAATCTGACTGGGT  
 TTGCTTTTACGAAGTGGGAGGCTATGACGCCTTCATGGAAAAGTACATGAAAGCCATCCAACCATAGT  
 GTCTGATGGCAACACCACCTTTAGGAAAAATGCTACACTCCAAGGGCCGACTCCTTCCACATCTCCGA  
 GATCCCCTCACGGGAGACCTCCCATGGCTGGGTTCATCTTTGGGATGCCATCCTTACCTGTGGTACT  
 GGTGCACAGATCAGGTCAATTGTGCAGCGCTGCCTCTCAGCCAAGAATATGTCTCACGTGAAGGGTGGCTG  
 CATCTGTGTGGTATCTAAAGCTGATGCCATGTTTCATCATGGTATGCCAGGAATGATCAGCCGCATT  
 CTGTACACAGAAAAAATTCCTGTGTCTCCCTCAGAATGTGAGAAATATTGCGGTACCAAGGTTGGCT  
 GTACCAACATCGCCTATCCAACCTTAGTGGTGGAGCTCATGCCCAATGGACTGCGAGGCCTGATGCTATC  
 AGTCATGCTGGCCTCCCTCATGAGCTCCCTGACCTCCATCTTCAACAGCGCCAGCACCCCTTCCACCATG  
 GACATCTACGCCAAGGTCCGCAAGAGAGCATCTGAGAAAGAGCTCATGATTGCCGGAAGGTTGTTTATCC  
 TGGTGTGCTATTGGCATCAGCATCGCTGGGTGCCATTGTGCAGTCAGCACAAAGTGGGCAACTCTTCGA  
 TTACATCCAGTCCATCACCAGTACTTGGGACCACCCATTGCGGCTGTCTTCTGCTTGTATTTCTGG  
 AAGAGAGTCAATGAGCCAGGAGCCTTTTGGGACTGATCCTAGGACTTCTGATTGGGATTCACGTATGA  
 TTAAGTACTTGTACTTTGCCATTATCCTCTTCGCCATTTCTTTCATCACCATCGTGGTTCATCTCCCTCCTC  
 GCCACTTGTACTTTGCCATTATCCTCTTCGCCATTTCTTTCATCACCATCGTGGTTCATCTCCCTCCTC  
 ACCAAACCATTCCGGATGTGCATCTCTACCGTCTGTGTTGGAGCCTGCGCAACAGCAAAGAGGAGCGTA  
 TTGACCTGGATGCGGAAGAGGAGAACATCCAAGAAGGCCCTAAGGAGACCATTGAAATAGAAACACAAGT  
 TCCTGAGAAGAAAAAGGAATCTTCAGGAGAGCCTATGACCTATTTTGTGGGCTAGAGCAGCACGGTGCA  
 CCCAAGATGACTGAGGAAGAGGAGAAAGCCATGAAGATGAAGATGACGGACACCTCTGAGAAGCCTTTGT  
 GGAGGACAGTGTGAACGTCAATGGCATCATCTGGTGACCGTGGCTGTCTTTGCCATGCATATTTTGC  
 C

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234378 representing NM\_001256314  
 Red=Cloning site Green=Tags(s)

MPEYLRKRFGGQRIQVYLSLLSLLLYIFTKISADIFSGAIFINLALGLNLYLAIFLLLAITALYITITGGL  
 AAVIYDTLQTVIMLVGSLILTGFAFHEVGGYDAFMEKYMKAIPTIVSDGNTTFQEKCYPRAFSHFIFR  
 DPLTGDLWPWGFIFGMSILTLWYWCTDQVIVQRCLSAKNMSHVKGCCILCGYKLMMPFIMVMPGMSRI  
 LYTEKIAICVVPSECEKYCGTKVGTNIAYPVTLVVELMPNGLRGLMLSVMLASLMSSLTIFNSASTLFTM  
 DIYAKVRKRASEKELMIAGRLFILVLIGISIAWVPIVQSAQSGQLFDYIQSITSYLGPIIAAVFLLAIFW  
 KRVNPEGAFWGLILGLLIGISRMITEFAYGTGSCMEPSNCPTIICGVHYLYFAIILFAISFITIVISLL  
 TKPIPDVHLYRLCWSLRNSKEERIDLDAEEENIQEGPKETIEIETQVPEKKKGFRRAYDLFCGLEQHGA  
 PKMTEEEEEKAMKMKMTDTSEKPLWRTVLNVNGIILVTVAVFCHAYFA

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

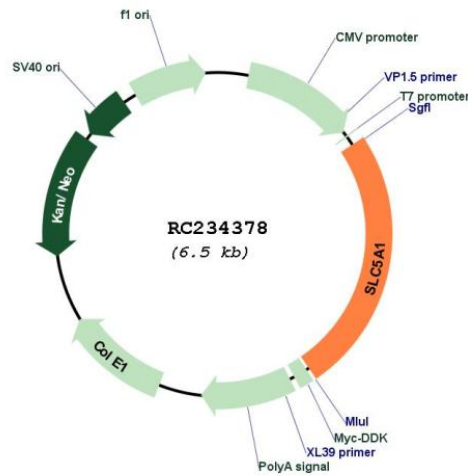
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001256314

<b>ORF Size:</b>	1611 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001256314.1</a> , <a href="#">NP_001243243.1</a>
<b>RefSeq Size:</b>	4779 bp
<b>RefSeq ORF:</b>	1614 bp
<b>Locus ID:</b>	6523
<b>UniProt ID:</b>	<a href="#">P13866</a>
<b>Cytogenetics:</b>	22q12.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>MW:</b>	60.5 kDa
<b>Gene Summary:</b>	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]