

## Product datasheet for **RC238920**

### SLC5A10 (NM\_001282417) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A10 (NM_001282417) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC5A10
Synonyms:	SGLT-5; SGLT5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238920 representing NM\_001282417  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACGTGGTGGCCGATTGGAGCCTCCCTCTTCGCCAGCAGCGAGGGCTCTGGCCTCTTCATTGGACTGG  
 CGGGCTCAGGCGGGCAGGAGGTCTGGCCGTGGCAGGCTTCGAGTGGAATGCCACGTACGTGCTGCTGGC  
 ACTGGCATGGGTGTTCTGCCCCATCTACATCTCCTCAGAGATCGTCACCTTACCTGAGTACATTCAGAAG  
 CGCTACGGGGGCCAGCGGATCCGCATGTACCTGTCTGTCTGTCCCTGCTACTGTCTGTCTTACCAAGA  
 TATCGCTGGACCTGTACGCGGGGCTCTGTTTGTGCACATCTGCCTGGGCTGGAACCTTCTACCTCCAC  
 CATCCTCAGCTCGGCATCACAGCCCTGTACACCATCGCAGCTTTTGACCAGATCGGTGGTTACGGGCAG  
 CTGGAGGCAGCCTACGCCAGGCCATCCCTCCAGGACCATTGCCAACACCACCTGCCACCTGCCACGTA  
 CAGAGCCATGCACATGTTTCGAGACCCCCACACAGGGGACCTGCCGTGGACCGGGATGACCTTTGGCCT  
 GACCATCATGGCCACCTGGTACTGGTGCACCGACCAGGTATCGTGCAGCGATCACTGTACGCCCGGGAC  
 CTGAACCATGCCAAGGCGGGCTCCATCCTGGCCAGCTACCTCAAGATGCTCCCATGGGCCCTGATCATCA  
 TGCCGGGCATGATCAGCCGCGCATTGTTCCAGGTGCTCATGTCTATGAGGAGAGACACCAAGTGTCCGT  
 CTCTCGAACAGATGATGTGGGCTGCGTGGTGCCGTCCGAGTGCCTGCGGGCCTGCGGGGCCGAGGTGCGC  
 TGCTCAAACATCGCTACCCCAAGCTGGTCATGGAACATGATGCCATCGGTCTGCGGGGGCTGATGATCG  
 CAGTGATGCTGGCGGGCTCATGTCTGCTGACTCCATCTTCAACAGCAGCAGCACCCCTTCACTAT  
 GGACATCTGGAGGCGGCTGCGTCCCCGCTCCGGCAGCGGGAGCTCCTGCTGGTGGGACGCACTGGGATA  
 CCCTCAACACCCCCAGCCCCCAAAGCCGTCTCAGCTTCTCCTGCCGAAACACCACCATTGGAGCGGT  
 ATCTCCTAGGCCCTCGTGGTCATGGATCTCTGGCTGGTCATAGTGGCACTCATCGGCGTGAAGTGGCGTG  
 GATCCCCGTCTGCAGGACTCCAACAGCGGGCAACTCTTCATCTACATGCAGTCAGTGACCAGCTCCCTG  
 GCCCACCACTGACTGCAGTCTTTGCTCCTGGGCGTCTTCTGGCGACGTGCCAACGAGCAGGGGGCTTCT  
 GGGGCTGATAGCAGGGCTGGTGGTGGGGCCACGAGGCTGGTCTGGAATTCCTGAACCCAGCCCCACC  
 GTGCGGAGAGCCAGACACGCGGCCAGCCGTCTGGGGAGCATCCACTACCTGCACCTCGCTGTGCGCCCTC  
 TTTGCACTCAGTGGTGTGTTGTGGTGGCTGGAAGCCTGCTGACCCACCCACAGAGTGTCCAGATTG  
 AGAACCTTACCTGGTGGACCCTGGCTCAGGATGTGCCCTTGGGAATAAAGCAGGTGATGCCAAACACC  
 CCAGAAACACGCCTTCTGGGCCGTGTCTGTGGCTTCAATGCCATCCTCCTCATGTGTCAACATATTC  
 TTTTATGCCTACTTCGCC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238920 representing NM\_001282417  
 Red=Cloning site Green=Tags(s)

MTWWPIGASLFASSSEGLFIFLAGSAGGLAVAGFEWNATYVLLALAWVFVPIYISSEIVTLPEYIQK  
 RYGGQRIRMYLSVLSLLSVFTKISLDLYAGALFVHICLGNFYLSLITLTLGITALYTIAAFQIGGYGQ  
 LEAAYAQAIPSRITANTTCHLPRTDAMHMFDPHTGDLPWGTMFGLTIMATWYWCTDQVIVQRSLARD  
 LNHAAGSILASYLKMLPMGLIIMPGMISRALFPGAHVYEERHQVSVSRDDVGCVVPSSELRACGAEVG  
 CSNIAYPKLVMELMPIGLRGLMIAVMLAALMSSLTSIFNSSTLFTMDIWRRLRPRRGERELLLVGRGTI  
 PSTPPAPQRSLSFLLPETPLERYLLGLVMDLWLVIVALIGVSVAWIPVLQDSNSGQLFIYMQSVTSSL  
 APPVTAVFVLFVWRRANEQGAFWGLIAGLVVGAATRLVLEFLNPAPPCGEPDTRPAVLGSIHYLHFAVAL  
 FALSGAVVAGSLLTPPPQSVQIENLTWWTLAQDVPLGKAGDGTTPQKHAFWARVCGFNAILLMCVNIF  
 FYAYFA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

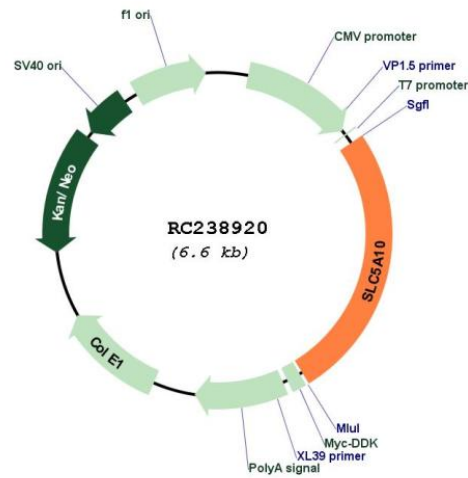
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001282417  
 ORF Size: 1698 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_001282417.1</a> , <a href="#">NP_001269346.1</a>
<b>RefSeq Size:</b>	2201 bp
<b>RefSeq ORF:</b>	1701 bp
<b>Locus ID:</b>	125206
<b>UniProt ID:</b>	<a href="#">A0PIK1</a>
<b>Cytogenetics:</b>	17p11.2
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	62.1 kDa
<b>Gene Summary:</b>	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]