

## Product datasheet for **RC234434**

### SLC5A10 (NM\_001270649) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A10 (NM_001270649) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC5A10
Synonyms:	SGLT-5; SGLT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234434 representing NM\_001270649  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGCAACTCCACCAGCGACTCCACACTCCCGGGACGAGCTGAGCGTGGCTGACATCATCGTCA  
 TCACTGTGATTTTGGCTCTGAATGTGGCGTGGGCATATGGTCCTTGTGCGGGCCAGTAGGAACACGGT  
 GAATGGCTACTTCTGGCAGGCCGGGACATGACGTGGTGGCCGATTGGAGCCTCCCTCTTCGCCAGCAGC  
 GAGGGCTCTGGCCTCTTCATTGGACTGGCGGGCTCAGGCGCGGCAGGAGGTCTGGCCGTGGCAGGCTTCG  
 AGTGGAAATGCCACGTACGTGCTGCTGGCACTGGCATGGGTGTTCTGTGCCATCTACATCTCCTCAGAGAT  
 CGTCACCTTACCTGAGTACATTCAGAAGCGCTACGGGGGCCAGCGGATCCGCATGTACCTGTCTGCTCTG  
 TCCCTGCTACTGTCTGTCTTACCAAGATATCGCTGGACCTGTACGCGGGGGCTCTGTTTGTGCACATCT  
 GCCTGGGTGAACTTCTACCTCTCCACCATCCTCAGCTCGGCATCACAGCCCTGTACACCATCGCAGG  
 GGGCCTGGCTGTGTAATCTACACGGACGCCCTGCAGACGCTCATCATGGTGGTGGGGGCTGCATCCTG  
 ACAATCAAAGCTTTTGACCAGATCGGTGGTTACGGGCAGCTGGAGGCAGCCTACGCCAGGCCATCCCT  
 CCAGGACCATTGCCAACACCACCTGCCACCTGCCACGTACAGACGCCATGCACATGTTTCGAGACCCCCA  
 CACAGGGGACCTGCCGTGGACCGGGATGACCTTTGGCCTGACCATCATGGCCACCTGGTACTGGTGCACC  
 GACCAGGTCACTGTCAGCGATCACTGTGACCCGGGACCTGAACCATGCCAAGGCGGGCTCCATCCTGG  
 CCAGCTACCTCAAGATGCTCCCCATGGGCTGATCATCATGCCGGCATGATCAGCCGCGCATTGTTCCC  
 AGGTCTGCGGGGGCTGATGATCGCAGTGTGCTGGCGCGCTCATGTGTCGTCGACTCCATCTTCAAC  
 AGCAGCAGCACCTCTTCACTATGGACATCTGGAGGCGGCTGCGTCCCCGCTCCGGCGAGCGGGAGCTCC  
 TGCTGGTGGGACGGCTGGTCATAGTGGCACTCATCGGCGTGAGTGTGGCCTGGATCCCCGCTCTGCAGGA  
 CTCCAACAGCGGGCAACTCTTCACTACATGCAGTCAGTGACCAGCTCCCTGGCCCCACCACTGACTGCA  
 GTCTTTGTCTGGCGTCTTCTGGCGACGTGCCAACGAGCAGGGGGCCTTCTGGGCCTGATAGCAGGGC  
 TGGTGGTGGGGCCACGAGGCTGGTCTGGAATTCCTGAACCCAGCCCCACCGTGCAGGAGCCAGACAC  
 GCGGCCAGCCGCTCTGGGAGCATCCACTACCTGCACTTCGCTGTGCGCCCTTTTGCCTCAGTGGTGT  
 GTTGTGGTGGCTGGAAGCCTGCTGACCCACCCACAGAGTGTCCAGATTGAGAACCTTACCTGGTGA  
 CCCTGGCTCAGGATGTCCCTTGGAACTAAAGCAGGTGATGGCCAAACACCCAGAAACACGCCTTCTG  
 GGCCCGTGTCTGGCTCAATGCCATCCTCCTCATGTGTGTCAACATATCTTTTATGCCTACTTCGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234434 representing NM\_001270649  
 Red=Cloning site Green=Tags(s)

MAANSTDLHTPGTQLSVADIIVITVYFALNVAVGIWSSCRASRNTVNGYFLAGRDMTWPIGASLFASS  
 EGSGLF IGLAGSGAAGGLAVAGFEWNATYVLLALAWVFVPIYISSEIVTLPEYIQKRYGGQRIRMYLSVL  
 SLLL SVFTKISLDLYAGALFVHICLGWNFYLSLITL GITALYTIAGGLAAVIYTDALQTLIMVVGAVIL  
 TIKAFDQIGGYGQLEAAYAQAIPSRITANTTCHLPRTDAMHMRDPHTGDL PWTGMTFGLTIMATWYWT  
 DQVIVQRSL SARDLNHAKAGSILASYLKMLPMGLIIMPGMISRALFPGLRGLMIAVMLAALMSSLTSIFN  
 SSSTLFTMDIWRRLRPRSGERELLLVGR LVIVALIGVSVAWIPVLQDSNSGQLFIYMQSVTSSLAPPVTA  
 VFVLGVFWRRANEQGAFWGLIAGLVV GATRLVLEFLNPAPPCEPDTRPAVLGSIHYLHFAVALFALSGA  
 VVVAGSLLTPPPQSVQIENL TWWTLAQDVPLGTKAGDGTTPQKHAFWARVCGFNAILLMCVNIFFYAYFA

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001270649

ORF Size: 1680 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_001270649.1](#), [NP\\_001257578.1](#)

RefSeq Size: 1984 bp

RefSeq ORF: 1683 bp

Locus ID: 125206

UniProt ID: [A0PJK1](#)

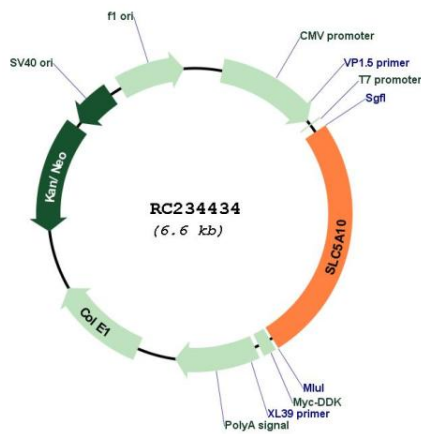
**Cytogenetics:** 17p11.2

**Protein Families:** Transmembrane

**MW:** 61 kDa

**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-transporters 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]

**Product images:**



Circular map for RC234434