

## Product datasheet for **SC336814**

### SLC5A10 (NM\_001282417) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A10 (NM_001282417) Human Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >SC336814 representing NM\_001282417.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACGTGGTGGCCGATTGGAGCCTCCCTCTTCGCCAGCAGCGAGGGCTCTGGCCTCTTCATTGGACTG
GCGGGCTCAGGCGCGCAGGAGGTCTGGCCGTGGCAGGCTTCGAGTGAATGCCACGTACGTGCTGCTG
GCACTGGCATGGGTGTTCTGTGCCATCTACATCTCCTCAGAGATCGTCACCTTACCTGAGTACATTCAG
AAGCGCTACGGGGCCAGCGGATCCGCATGTACCTGTCTGTCTCCTGTCCCTGCTACTGTCTGTCTTACC
AAGATATCGCTGGACCTGTACGCGGGGGCTCTGTTTGTGCACATCTGCCTGGGCTGGAACCTCTACCTC
TCCACCATCCTCAGCTCGGCATCACAGCCCTGTACACCATCGCAGCTTTTGACCAGATCGGTGGTTAC
GGGCGCTGGAGGCAGCCTACGCCCAGGCCATTCCCTCCAGGACCATTGCCAACACCACCTGCCACCTG
CCACGTACAGACGCCATGCACATGTTTCGAGACCCCCACAGGGGACCTGCCGTGGACCGGGATGACC
TTTGGCCTGACCATCATGGCCACCTGGTACTGGTGCACCGACCAGGTATCGTGCAGCGATCACTGTCA
GCCCGGGACCTGAACCATGCCAAGCGGGCTCCATCCTGGCCAGCTACCTCAAGATGCTCCCATGGGC
CTGATCATCATGCCGGGCATGATCAGCCGCGCATTGTTCCAGGTGCTCATGTCTATGAGGAGAGACAC
CAAGTGTCCGTCTCTCGAACAGATGATGTGGGCTGCGTGGTCCCGTCCGAGTGCCTGCGGGCCTGCGGG
GCCGAGGTGCGCTGCTCCAACATCGCCTACCCCAAGCTGGTCAATGGAACCTGATGCCCATCGGTCTGCGG
GGGCTGATGATCGCAGTATGCTGGCGCGCTCATGTCTGCTGACCTCCATCTTCAACAGCAGCAGC
ACCCTCTTCACTATGGACATCTGGAGGGCGGTGCGTCCCCGCTCCGGCGAGCGGGAGCTCCTGCTGGTG
GGAGCAGTGGGATACCTCAACACCCCCAGCCCTCAAAGCCGTCTCAGCTTCTCCTGCCGAAACA
CCACCATGGAGCGGTATCTCCTAGGCCCTCGTGGTTCATGGATCTCTGGCTGGTCAATGGCACTCATC
GGCGTGAAGTGTGGCCTGGATCCCGTCTGCAGGACTCCAACAGCGGGCAACTCTCATCTACATGCAG
TCAGTGACCAGCTCCCTGGCCCCACAGTGAAGTGCAGTCTTTGTCTGGGCGTCTTCTGGCGACGTGCC
AACGAGCAGGGGGCCTTCTGGGGCTGATAGCAGGGCTGGTGGTGGGGGCCACGAGGCTGGTCTGGAA
TTCCTGAACCCAGCCCCACCGTGCAGAGAGCCAGACACGCGGCCAGCCGTCTGGGGAGCATCCACTAC
CTGCACTTCGCTGTGCCCTCTTTGCACTCAGTGGTGTGTTGTGGTGGCTGGAAGCCTGCTGACCCCA
CCCCACAGAGTGTCCAGATTGAGAACCTTACCTGGTGGACCCTGGCTCAGGATGTGCCCTTGGAACT
AAAGCAGGTGATGGCCAAACACCCAGAAACACGCCTTCTGGGCCGTGTCTGTGGCTTCAATGCCATC
CTCCTCATGTGTGAACATATTCTTTTATGCCTACTTCGCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001282417

**Insert Size:** 1701 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).

**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\\_001282417.1](#)

**RefSeq Size:** 2201 bp

**RefSeq ORF:** 1701 bp

**Locus ID:** 125206

**UniProt ID:** [A0PIK1](#)

**Cytogenetics:** 17p11.2

**Protein Families:** Transmembrane

**MW:** 61.6 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]  
Transcript Variant: This variant (5) differs in the 5' UTR and has many differences in the coding region but maintains the reading frame compared to variant 1. This variant encodes isoform 5, which has a shorter N-terminus and is shorter compared to isoform 1.