

Product datasheet for **SC124104**

SLC5A10 (NM_152351) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A10 (NM_152351) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC5A10
Synonyms:	SGLT-5; SGLT5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_152351, the custom clone sequence may differ by one or more nucleotides

```

ATGCCGCCAACTCCACCAGCGACCTCCACACTCCCGGGACGCGAGCTGAGCGTGGCTGACATCATCGTCA
TCACTGTGTATTTTGTCTGAATGTGGCGTGGGCATATGGTCTTGTTCGGGCCAGTAGGAACACGGT
GAATGGTACTTCTGGCAGGCCGGGACATGACGTGGTGGCCGATTGGAGCCTCCCTCTTCGCCAGCAGC
GAGGGCTCTGGCCTTTCATTGGACTGGCGGGCTCAGGCCGGCAGGAGGTCTGGCCGTGGCAGGCTTCG
AGTGGAATGCCACGTACGTGCTGCTGGCACTGGCATGGGTGTTCTGTGCCATCTACATCTCCTCAGAGAT
CGTCACCTTACCTGAGTACATTCAGAAGCGCTACGGGGGCCAGCGGATCCGCATGTACCTGTCTGTCCTG
TCCCTGCTACTGTCTGTCTTACCAAGATATCGCTGGACCTGTACGGGGGGCTGTGTTGTGCACATCT
GCCTGGGTGGAACCTTACCTCTCCACCATCCTCAGCTCGGCATCACAGCCCTGTACACCATCGCAGG
GGGCTGGCTGCTGAATCTACACGGACGCCCTGCAGACGCTCATCATGGTGGTGGGGGCTGTCATCCTG
ACAATCAAAGCTTTTGACCAGATCGGTGGTTACGGGCAGCTGGAGGCAGCCTACGCCCAGGCCATCCCT
CCAGGACATTGCCAACACCACCTGCCACCTGCCACGTACAGACGCCATGCACATGTTTCGAGACCCCA
CACAGGGGACCTGCCGTGGACCGGGATGACCTTTGGCCTGACCATCATGGCCACCTGGTACTGGTGACC
GACCAGGTCACTGTCAGCGATCACTGTGACGCCGGGACCTGAACCATGCCAAGGCGGGCTCCATCCTGG
CCAGCTACCTCAAGATGCTCCCATGGGCTGATCATCATGCCGGGCATGATCAGCCGCGCATTGTTCC
AGGTGCTCATGTCTATGAGGAGAGACACCAAGTGTCCGTCTCTCGAACAGATGATGTGGGCTGCGTGGT
CCGTCCGAGTGCCTGCGGGCCTGCGGGGCGGAGGTCGGCTGCTCCAACATCGCCTACCCCAAGCTGGTCA
TGGAACTGATGCCCATCGGTCTGCGGGGCTGATGATCGCAGTGTGCTGGCGGCGCTCATGTGCTCGT
GACCTCCATCTTCAACAGCAGCAGCACCCCTCTTCACTATGGACATCTGGAGGCGGCTGCTCCCGCTCC
GGCGAGCGGGAGCTCCTGCTGGTGGGAGGCTGGTGCATAGTGGCACTCATCGGCGTGAAGTGGCTGGA
TCCCCGTCTGCAGGACTCCAACAGCGGCAACTTTCATCTACATGCAGTCAGTACCAGCTCCCTGGC
CCCACAGTGACTGCAGTCTTTGTCTGGGCGTCTTCTGGCGACGTGCCAACGAGCAGGGGGCTTCTGG
GGCCTGATAGCAGGGCTGGTGGTGGGGCCACGAGGCTGGTCTGGAATTCCTGAACCCAGCCCCACCGT
GCGGAGAGCCAGACACGCGGCCAGCCGCTCTGGGAGCATCCACTACCTGCACTTCGCTGTCCGCTCTT
TGCACTCAGTGGTGTGTTGTGGTGGTGGAAAGCCTGCTGACCCACCCACAGAGTGTCCAGATTGAG
AACCTTACCTGGTGGACCCTGGCTCAGGATGTGCCCTTGGAACTAAAGCAGGTGATGGCCAAACACCC
AGAAACACGCCTTCTGGGCCGTGTCTGTGGCTCAATGCCATCCTCCTCATGTGTGTAACATATCTT
TTATGCCTACTTCGCTGA
    
```

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152351 unedited

```

NNGAGTTCAGATTTGTAACGACTCACTATAGGCGGCCGNAATTCGGCACCAGCGGGC
TCATACCTAGTGCCTGCGGCAGGACAGCCATGGCCGCAACTCCACCAGCGACCTCCACA
CTCCCAGGACGCGAGCTGAGCGTGGCTGACATCATCGTCATCACTGTGTATTTTGTCTGA
ATGTGGCCGTGGGCATATGGTCTTGTTCGGGCCAGTAGGAACACGGTGAATGGTACT
TCTGGCAGGCCGGGACATGACGTGGTGGCCGATTGGAGCCTCCCTCTTCGCCAGCAGCG
AGGGCTCTGGCCTTTCATTGGACTGGCGGGCTCAGGCGCGCAGGAGGTCTGGCCGTGG
CAGGCTTCGAGTGAATGCCACGTACGTGCTGCTGGCACTGGCATGGGTGTTCTGTGCCA
TCTACATCTCCTCAGAGATCGTCACCTTACCTGAGTACATTGAGAAGCGCTACGGGGGCC
AGCGGATCCGCATGTACCTGTCTGCTCCTGTCCCTGCTACTGTCTGTCTTACCAAGATAT
CGCTGGACCTGTACGCGGGGCTCTGTTTGTGCACATCTGCCTGGGCTGGAACCTTCTACC
TCTCCACCATCCTCAGCTCGGCATCACAGCCCTGTACACCATCGCAGGGGGCCTGGCTG
CTGTAATCTACACGGACGCCCTGCAGACGCTCATCATGGTGGTGGGGGCTGTATCCTG
ACCATCAAAGCTTTTGACCAGATCGGTGGTTACGGCAGCTGGAAGCAGCCTACGCCCA
GGCCATTCCTCCAGGACATTGGCCACACCACCTGGCCACTGCCAGTACAGACGCCCTGC
ACATGTTTTGAGACCCCCCACCAGGGACCTGGCCTGGGACCGGGATGACT
    
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_152351 unedited GGAGAGGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGATCTGTTTCAGGAAACAGCTA TGACCTCGGCCGCAATCTAGAGTCNANNTTTTTTTTTTTTTTTTTTTTTTTTGTCCGTCAGAAA TCTAATTTTCTTCCAATGCTGACTGCTTTGGTGCTGTTTTGAAATGTCACATTATTTT CTCCATTTCCCCCTAATTTTTAGGGCTCCCGCTTTGCTGGCTTGGCCAGTTCTTGGG CACCCAGCTGCTGCAACTTTGAAGGGAATCTGCCCTCTTGGGGCCCCGGATCCCC TTAAGGAAAATGGGGGGCCCTAAGAAGTCAAACCCCTGCCTTTTTTTCCAGAATGGCAT TGTCAAGGCAAATTAGGCTTAAAAAATATGTTGCCCCCATGAGGAGGATGGCATTGAAC CCCCAAACCCGGGCCCAAAGGCGTGTTTCTGGGGTGTGGCCATCACCTGCTTTAGTT CCCAAGGGCACATCCTGAGCCAGGGTCCACCAGGTAAAGTTCTCAATCTGGACACTCTGT GGGGGTGGGTGAGCANGCTTCCACCACCACAGCACACTGATGCAAAAGGCGACCACAA TGCAGTATGATCTCCAGACGCTCCCGCTTTTCTCTCCACGTGGGCTGGTCAGGATCAGA CAACTGTGCCCCACACTTGTTAGGCCAAAGCCCTGTGTGACTC
Restriction Sites:	Please inquire
ACCN:	NM_152351
Insert Size:	2000 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).
OTI Annotation:	The ORF of this clone is found to be a perfect match to NM_152351.4.
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:	<ol style="list-style-type: none"> 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:	<u>NM_152351.4</u> , <u>NP_689564.3</u>
RefSeq Size:	2140 bp
RefSeq ORF:	1839 bp
Locus ID:	125206
UniProt ID:	<u>A0PJK1</u>
Cytogenetics:	17p11.2
Protein Families:	Transmembrane

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-transportes 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 (1) encodes the longest isoform (1).