

Product datasheet for **RC212374**

SLC5A10 (NM_001042450) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A10 (NM_001042450) 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:

>RC212374 representing NM_001042450
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGCAACTCCACCAGCGACTCCACACTCCCGGGACGAGCTGAGCGTGGCTGACATCATCGTCA
 TCACTGTGATTTTGTCTGAATGTGGCCGTGGGCATATGGTCCTTGTGCGGGCCAGTAGGAACACGGT
 GAATGGCTACTTCTGGCAGGCCGGGACATGACGTGGTGGCCGATTGGAGCCTCCCTCTTCGCCAGCAGC
 GAGGGCTCTGGCCTCTTATTGGACTGGCGGGCTCAGGCGCGGCAGGAGGTCTGGCCGTGGCAGGCTTCG
 AGTGGAATGCCACGTACGTGCTGCTGGCACTGGCATGGGTGTTCTGTCGCCATCTACATCTCCTCAGAGAT
 CGTCACCTTACCTGAGTACATTCAGAAGCGCTACGGGGGCCAGCGGATCCGCATGTACCTGTCTGCTCTG
 TCCCTGCTACTGTCTGTCTTACCAAGATATCGCTGGACCTGTACGCGGGGGCTCTGTTTGTGCACATCT
 GCCTGGGTGAACTTCTACCTCTCCACCATCCTCAGCTCGGCATCACAGCCCTGTACACCATCGCAGG
 GGGCCTGGCTGCTAATCTACACGGACGCCCTGCAGACGCTCATCATGGTGGTGGGGGCTGTCATCCTG
 ACAATCAAAGCTTTTGACCAGATCGGTGGTTACGGGCAGCTGGAGGCAGCCTACGCCAGGCCATCCCT
 CCAGGACCATTGCCAACACCACCTGCCACCTGCCACGTACAGACGCCATGCACATGTTTCGAGACCCCCA
 CACAGGGGACCTGCCGTGGACCGGGATGACCTTTGGCCTGACCATCATGGCCACCTGGTACTGGTGCACC
 GACCAGGTCACTGTCAGCGATCACTGTGAGCCGGGACCTGAACCATGCCAAGGCGGGCTCCATCCTGG
 CCAGCTACCTCAAGATGCTCCCATGGGCTGATCATATGCCGGGATGATCAGCCGCGCATTGTTCCC
 AGATGATGTGGGTGCGTGGTGGCCTCCGAGTGCCTGCGGGCTGCGGGGCGAGGTGGCTGCTCCAAC
 ATCGCTACCCCAAGCTGGTCAATGGAACCTGATGCCATCGGTCTGCGGGGCTGATGATCGCAGTATGC
 TGGCGGCGCTCATGTGCTGCTGACCTCCATCTTCAACAGCAGCAGCACCCCTTCTACTATGGACATCTG
 GAGGCGGCTGCTCCCGCTCCGGCAGCGGGAGCTCCTGCTGGTGGGACGGCTGGTCAATGGGACTC
 ATCGCGGTGAGTGTGGCCTGGATCCCGCTCCTGCAGGACTCCAACAGCGGCAACTTTCATCTACATGC
 AGTCAGTGACCAGCTCCCTGGCCCCACCAGTACTGTCAGTCTTTGTCTGGGCGTCTTCTGGCGACGTGC
 CAACGAGCAGGGGCTTCTGGGCTGATAGCAGGGCTGGTGGTGGGGCCACGAGGCTGGTCTGGAA
 TTCCTGAACCCAGCCCCACCGTGCAGAGCCAGACACGCGCCAGCCCTCTGGGAGCATCCACTACC
 TGCCTTCTGCTGCTGCTCTTTGCACTCAGTGGTGTGTTGTGGTGGCTGGAAGCTGCTGACCCACC
 CCCACAGAGTGTCCAGATTGAGAACCTTACCTGGTGGACCCTGGCTCAGGATGTGCCCTTGGAACTAAA
 GCAGGTGATGGCCAAACACCCAGAAACACGCCTTCTGGGCCGTGCTGTGGCTCAATGCCATCTCC
 TCATGTGTGCAACATATTCTTTATGCCTACTTCGCC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC212374 representing NM_001042450
 Red=Cloning site Green=Tags(s)

MAANSTDLHTPGTQLSVADIIVITVYFALNVAVGIWSSCRASRNTVNGYFLAGRDMTWPIGASLFASS
 EGSGLFIGLAGSGAAGGLAVAGFEWNATYVLLALAWVFPYIYISSEIVTLPEYIQKRYGGQRIRMYLSVL
 SLLL SVFTKISLDLYAGALFVHICLGWNFYLSITLTLGITALYTIAGGLAAVIYTDALQTLIMVVGAVIL
 TIKAFDQIGGYQLEAAYAQAIPSRITANTTCHLPRTDAMHMRPHTGDL PWTGMTFGLTIMATWYWCT
 DQVIVQRSLSARDLNHAKAGSILASYLKMLPMGLIIMPGMISRALFPDDVGCVPVSECLRACGAIEVGCNS
 IAYPKLVMELMPIGLRGLMIAVMLAALMSSLT SIFNSSSTLFTMDIWRRLRPRSGERELLLVGRLVIVAL
 IGVSVAWIPVLQDSNSGQLFIYMQSVTSSLAPPVTAVFVLGVFWRRANEQGAFWGLIAGLVVGGATRLVLE
 FLNPAPPCGEPDTRPAVLGSIHYLHFAVALFALSGAVVAVAGSLLTPPPQSVQIENLTWWTLAQDVPLGK
 AGDGQTPQKHAFWARVCGFNAILLMCVNIFFYAYFA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001042450

ORF Size: 1788 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001042450.4](#)

RefSeq Size: 2092 bp

RefSeq ORF: 1791 bp

Locus ID: 125206

UniProt ID: [A0PIK1](#)

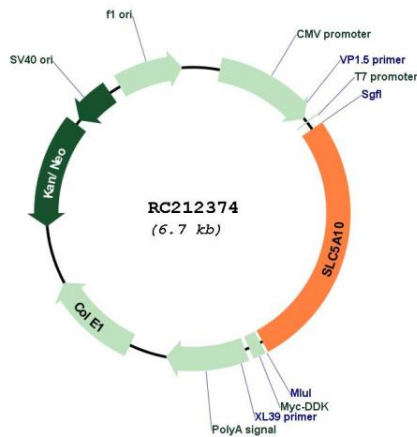
Cytogenetics: 17p11.2

Protein Families: Transmembrane

MW: 64.3 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 RC212374