

Product datasheet for **RC234457**

SLC5A10 (NM_001270648) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A10 (NM_001270648) 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:

>RC234457 representing NM_001270648
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGCAACTCCACCAGCGACTCCACACTCCCGGGACGAGCTGAGCGTGGCTGACATCATCGTCA
 TCACTGTGATTTTGGCTGGAATGTGGCGTGGGCATATGGTCCTTGTGCGGGCCAGTAGGAACACGGT
 GAATGGCTACTTCTGGCAGGCCGGGACATGACGTGGTGGCCGATTGGAGCCTCCCTCTTCGCCAGCAGC
 GAGGGCTCTGGCCTTTCATTGGACTGGCGGGCTCAGGCGCGGAGGAGGTCTGGCCGTGGCAGGCTTCG
 AGTGGAATGCCACGTACGTGCTGCTGGCACTGGCATGGGTGTTCTGTCGCCATCTACATCTCCTCAGAGAT
 CGTCACCTTACCTGAGTACATTAGAAGCGCTACGGGGGCCAGCGGATCCGCATGTACCTGTCTGCTCTG
 TCCCTGCTACTGTCTGTCTTACCAAGATATCGCTGGACCTGTACGCGGGGGCTCTGTTTGTGCACATCT
 GCCTGGGTGGAACCTTACCTCTCCACCATCCTCAGCTCGGCATCACAGCCCTGTACACCATCGCAGC
 TTTTGACCAGATCGGTGGTTACGGGCAGCTGGAGGCAGCTACGCCAGGCCATTCCCTCCAGGACCATT
 GCCAACACCACCTGCCACCTGCCACGTACAGACGCCATGCACATGTTTCGAGACCCACACAGGGGACC
 TGCCGTGGACCGGGATGACCTTTGGCCTGACCATCATGGCCACCTGGTACTGGTGCACCGACCAGGTGAT
 CGTGCAGCGATCACTGTGAGCCGGGACCTGAACCATGCCAAGGCGGGCTCCATCCTGGCCAGCTACCTC
 AAGATGCTCCCATGGGCTGATCATATGCCGGGCATGATCAGCCGCGCATTGTTCCAGATGATGTGG
 GCTGCGTGGTGGCGTCCGAGTGCCTGCGGGGCTGCGGGGCGGAGGTGGCTGCTCCAACATCGCCTACCC
 CAAGCTGGTCAATGAACTGATGCCATCGGTCTGCGGGGCTGATGATCGCAGTATGCTGGCGGCGCTC
 ATGTCGTCGCTGACCTCCATCTTCAACAGCAGCAGCACCTCTTCACTATGGACATCTGGAGGCGGCTG
 GTCCCGCTCCGGCAGCGGGAGCTCCTGCTGGTGGGACGGCTGGTATAGTGGCACTCATCGGGCTGAG
 TGTGGCCTGGATCCCGTCTGCAAGACTCCAACAGCGGCAACTCTTCACTACATGCAGTCAAGTACG
 AGCTCCCTGGCCCCACAGTGAAGTGCAGTCTTGTCTGGCGTCTTCTGGCGAGCTGCCAACGAGCAGG
 GGGCCTTCTGGGGCTGATAGCAGGGCTGGTGGTGGGGGCCACGAGGCTGGTCTGGAATTCCTGAACCC
 AGCCCCACCGTGCAGGAGCCAGACACGCGGCCAGCCGCTCTGGGAGCATCCACTACCTGCACTTCGCT
 GTCGCCCTCTTTCAGTCAAGTGGTGTGTTGTGGTGGTGGAGCCTGCTGACCCACCCACAGAGTG
 TCCAGATTGAGAACCTTACCTGGTGGACCTGGCTCAGGATGTGCCCTTGGGAATAAGCAGGTGATGG
 CCAAACACCCAGAAACAGCCTTCTGGGCCGTGTCTGTGGCTCAATGCCATCCTCCTCATGTGTGC
 AACATATCTTTTATGCCTACTTCGCC

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234457 representing NM_001270648
 Red=Cloning site Green=Tags(s)

MAANSTDLHTPGTQLSVADIIVITVYFALNVAVGIWSSCRASRNTVNGYFLAGRDMTWPIGASLFASS
 EGSGLFIGLAGSGAAGGLAVAGFEWNATYVLLALAWFVPIYISSEIVTLPEYIQKRYGGQRIRMYLSVL
 SLLL SVFTKISLDLYAGALFVHICLGNWFYLSLITLIGITALYIAAFDQIGGYGQLEAAYAQAIPSRIT
 ANTTCHLPRDAMHMRDPHTGDLPTWGTMTFGLTIMATWYWCTDQVIVQRSL SARDLNHAKAGSILASYL
 KMLPMGLIIMPGMISRALFPDDVGCVPVSECLRACGAEVGCSNIAYPKLVMEMLPIGLRGLMIAVMLAAL
 MSSLTSIFNSSSTLFTMDIWRRLRPRSGERELLLVGRLLVIVALIGVSVAVIPVLQDSNSGQLFIYMQSVT
 SSLAPPVTAVFVLGVFWRANEQGAFWGLIAGLVVATRLVLEFLNPAPPCGEPDTRPAVLGSIHYLHFA
 VALFALSGAVVVAGSLLTPPPQSVQIENLTWWTLAQDVPLGKAGDGQTPQKHAFWARVCGFNAILLMCV
 NIFFYAYFA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001270648

ORF Size: 1707 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_001270648.2](#)

RefSeq Size: 2011 bp

RefSeq ORF: 1710 bp

Locus ID: 125206

UniProt ID: [A0PJK1](#)

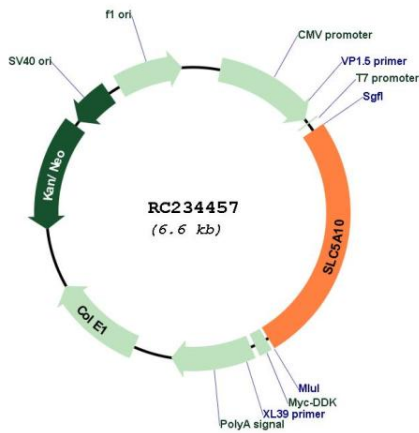
Cytogenetics: 17p11.2

Protein Families: Transmembrane

MW: 62.1 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 RC234457