

Product datasheet for **RG234434**

SLC5A10 (NM_001270649) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A10 (NM_001270649) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC5A10
Synonyms:	SGLT-5; SGLT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234434 representing NM_001270649
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGCAACTCCACCAGCGACTCCACACTCCCGGACGCGAGCTGAGCGTGGCTGACATCATCGTCA
 TCACTGTGATTTTGGCTCTGAATGTGGCGTGGGCATATGGTCCTTGTGCGGGCCAGTAGGAACACGGT
 GAATGGCTACTTCTGGCAGGCCGGGACATGACGTGGTGGCCGATTGGAGCCTCCCTCTTCGCCAGCAGC
 GAGGGCTCTGGCCTCTTATTGGACTGGCGGGCTCAGGCGCGGAGGAGGTCTGGCCGTGGCAGGCTTCG
 AGTGGAATGCCACGTACGTGCTGCTGGCACTGGCATGGGTGTTCTGTCGCCATCTACATCTCCTCAGAGAT
 CGTCACCTTACCTGAGTACATTAGAAGCGCTACGGGGGCCAGCGGATCCGCATGTACCTGTCTGTCCTG
 TCCCTGCTACTGTCTGTCTTACCAAGATATCGCTGGACCTGTACGCGGGGGCTCTGTTTGTGCACATCT
 GCCTGGGTGGAACCTTACCTCTCCACCATCCTCAGCTCGGCATCACAGCCCTGTACACCATCGCAGG
 GGGCCTGGCTGCTAATCTACACGGACGCCCTGCAGACGCTCATCATGGTGGTGGGGGCTGCATCCTG
 ACAATCAAAGCTTTTACAGATCGGTGGTTACGGGCAGCTGGAGGCAGCCTACGCCAGGCCATTCCTCT
 CCAGGACCATGCCAACACCACCTGCCACCTGCCACGTACAGACGCCATGCACATGTTTCGAGACCCCCA
 CACAGGGGACCTGCCGTGGACCGGGATGACCTTTGGCCTGACCATCATGGCCACCTGGTACTGGTGCACC
 GACCAGGTATCGTGCAGCGATCACTGTGAGCCGGGACCTGAACCATGCCAAGGCGGGCTCCATCCTGG
 CCAGCTACCTCAAGATGCTCCCATGGGCTGATCATATGCCGGGATGATCAGCCGCGCATTGTTCCC
 AGGTCTGCGGGGGCTGATGATCGCAGTGTGCTGGCGGCGCTCATGTGTCGTCGACTCCATCTTCAAC
 AGCAGCAGCACCCCTTCACTATGGACATCTGGAGGCGGCTGCGTCCCCGCTCCGGCAGCGGGAGCTCC
 TGCTGGTGGGACGGCTGGTCATAGTGGCACTCATCGCGTGTGAGTGTGGCCTGGATCCCCGCTCCTGCAGGA
 CTCCAACAGCGGCAACTCTTCACTACATGCAGTCAGTGACCAGCTCCCTGGCCCCACCATGACTGCA
 GTCTTTGCTCTGGGCGTCTTCTGGCAGCTGCCAACGAGCAGGGGGCCTTCTGGGCGCTGATAGCAGGGC
 TGGTGGTGGGGGCCACGAGGCTGGTCTGGAATTCCTGAACCCAGCCCCACCGTGCAGGAGCCAGACAC
 GCGGCCAGCCGCTCTGGGAGCATCCACTACCTGCACTTCGCTGTGCGCCCTTTTGCCTCAGTGGTGT
 GTTGTGGTGGCTGGAAGCCTGCTGACCCACCCACAGAGTGTCCAGATTGAGAACCTTACCTGGTGA
 CCCTGGCTCAGGATGTCCCTTGGAACTAAAGCAGGTGATGGCCAAACACCCAGAAACACGCCTTCTG
 GGCCCGTGTCTGGCTTCAATGCCATCCTCCTCATGTGTGTCAACATATCTTTTATGCCTACTTCGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234434 representing NM_001270649
 Red=Cloning site Green=Tags(s)

MAANSTSDLHTPGTQLSVADIIVITVYFALNVAVGIWSSCRASRNTVNGYFLAGRDMTWPIGASLFASS
 EGSGLFIGLAGSGAAGGLAVAGFEWNATYVLLALAWVFVPIYISSEIVTLPEYIQKRYGGQIRMYLSVL
 SLLL SVFTKISLDLYAGALFVHICLGWNFYLSLITLGLITALYTIAGGLAAVIYTDALQTLIMVVGAVIL
 TIKAFDQIGGYQLEAAYAQAIPSRITANTTCHLPRTDAMHFRDPHTGDL PWTGMTFGLTIMATWYWCT
 DQVIVQRSL SARDLNHAKAGSILASYLKMLPMGLIIMPGMISRALFPGLRGLMIAVMLAALMSSLTSIFN
 SSSLFTMDIWRRLRPRSGERELLLVGRLVIVALIGVSVAVIPVLQDSNSGQLFIYMQSVTSSLAPPVTA
 VFVLGVFWRANEQGAFWGLIAGLVVGATRLVLEFLNPAPPCGEPDTRPAVLGSIHYLHFAVALFALSGA
 VVVAGSLLTPPPQSVQIENLTWWTLAQDVPLGTKAGDGTTPQKHAFWARVCGFNAILLMCVNIFFYAYFA

TRTRPLE – GFP Tag – V

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

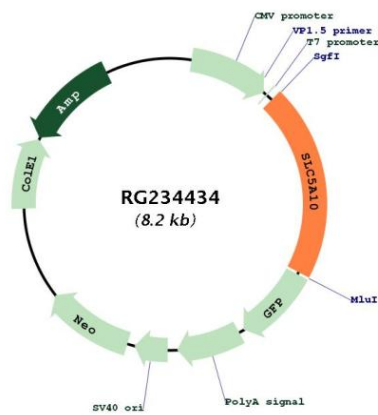
UniProt ID: [A0PIK1](#)

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-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 RG234434