

Product datasheet for **RG211407**

SLC5A10 (NM_152351) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A10 (NM_152351) 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:

>RG211407 representing NM_152351
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCGCAACTCCACCAGCGACTCCACACTCCCGGGACGCGAGCTGAGCGTGGCTGACATCATCGTCA
 TCACTGTGATTTTGTCTGTAATGTGGCCGTGGGCATATGGTCCTTGTGCGGGCCAGTAGGAACACGGT
 GAATGGCTACTTCTGGCAGGCCGGGACATGACGTGGTGGCCGATTGGAGCCTCCCTCTTCGCCAGCAGC
 GAGGGCTCTGGCCTCTTATTGGACTGGCGGGCTCAGGCGCGGAGGAGGTCTGGCCGTGGCAGGCTTCG
 AGTGGAAATGCCACGTACGTGCTGCTGGCACTGGCATGGGTGTTGCGCCATCTACATCTCCTCAGAGAT
 CGTCACCTTACCTGAGTACATTAGAAGCGCTACGGGGGCCAGCGGATCCGCATGTACCTGTCTGCTCTG
 TCCCTGCTACTGTCTGTCTTACCAAGATATCGCTGGACCTGTACGCGGGGGCTGTGTTGTGCACATCT
 GCCTGGGTGAACTTCTACCTCTCCACCATCCTCAGCTGGCATCACAGCCCTGTACACCATCGCAGG
 GGGCCTGGCTGTGTAATCTACACGGACGCCCTGCAGACGCTCATCATGGTGGTGGGGGCTGTCATCCTG
 ACAATCAAAGCTTTTGACCAGATCGGTGGTTACGGGCAGCTGGAGGCAGCCTACGCCAGGCCATTCCTT
 CCAGGACCATTGCCAACACCACCTGCCACCTGCCACGTACAGACGCCATGCACATGTTTCGAGACCCCCA
 CACAGGGGACCTGCCGTGGACCGGGATGACCTTTGGCCTGACCATCATGGCCACCTGGTACTGGTGACC
 GACCAGGTCACTGTCAGCGATCACTGTGAGCCGGGACCTGAACCATGCCAAGGCGGGCTCCATCCTGG
 CCAGCTACCTCAAGATGCTCCCATGGGCTGATCATATGCCGGGATGATCAGCCGCGCATTGTTCCC
 AGGTGCTCATGTCTATGAGGAGAGACACCAAGTGTCCGTCTCTCGAACAGATGATGTGGGCTGCGTGGT
 CCGTCCGAGTGCCTGCGGGCTGCGGGGCGGAGGTGGTGTGCTCAACATCGCCTACCCCAAGCTGGTCA
 TGGAACTGATGCCCATCGGTCTGCGGGGCTGATGATCGCAGTGTGCTGGCGGCGCTCATGTCTGCTGCT
 GACCTCCATCTTCAACAGCAGCAGCACCCCTCTTCACTATGGACATCTGGAGGCGGCTGCGTCCCCGCTCC
 GCGAGCGGGAGCTCCTGCTGGTGGGACGGCTGGTCATAGTGGCACTCATCGGCTGAGTGTGGCCTGGA
 TCCCCGCTCTGCAGGACTCCAACAGCGGCAACTCTTCACTACATGCAGTCACTGACCAGCTCCCTGGC
 CCCACCAGTACTGCAGTCTTTGCTGGGCGTCTTCTGGCGACGTGCCAACGAGCAGGGGGCTTCTGG
 GGCCTGATAGCAGGGCTGGTGGTGGGGCCACGAGGCTGGTCTGGAATCCTGAACCCAGCCCCACCGT
 GCGGAGAGCCAGACACGCGGCCAGCCGCTCTGGGAGCATCCACTACCTGCACTTCGCTGTCGCCCTCTT
 TGCACCTAGTGGTGTGTTGGTGGCTGGAAGCCTGCTGACCCACCCACAGAGTGTCCAGATTGAG
 AACCTTACTGGTGGACCCTGGCTCAGGATGTGCCCTTGGAACTAAAGCAGGTGATGGCCAAACACCCC
 AGAAACACGCCTTCTGGGCCGTGTCTGTGGCTTCAATGCCATCCTCCTCATGTGTCAACATATTCTT
 TTATGCCTACTTCGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG211407 representing NM_152351
 Red=Cloning site Green=Tags(s)

MAANSTSDLHTPGTQLSVADIIVITVYFALNVAVGIWSSCRASRNTVNGYFLAGRDMTWPIGASLFASS
 EGSGLFIGLAGSGAAGGLAVAGFEWNATYVLLALAWVFVPIYISSEIVTLPEYIQKRYGGQRIRMYLSVL
 SLLL SVFTKISLDLYAGALFVHICLGWNFYLSLITLGLITALYTIAGGLAAVIYTDALQTLIMVVGAVIL
 TIKAFDQIGGYQLEAAYAQAIPSRTIANTTCHLPRTDAMHMRPHTGDLPTWGMFTGLTIMATWYWCT
 DQVIVQRSLSARDLNHAKAGSILASYLKMLPMGLIIMPGMISRALFPGAHVVEERHQVSVSRTDDVGCVV
 PSECLRACGAEVGCSNIAYPKLVMELMPIGLRGLMIAVMLAALMSSLTSIFNSSSTLFTMDIWRRLRPRS
 GERELLLVGRLVIVALIGVSVAVIPVLQDSNSGQLFIYMQSVTSSLAPPVTAVFVLGVFWRANEQGAFW
 GLIAGLVVGAATRLVLEFLNPAPPCGEPDTRPAVLGSIHYLHFAVALFALSGAVVAVAGSLLTPPPQSVQIE
 NLTWWTLAQDVPLGKAGDGQTPQKHAFWARVCGFNAILLMCVNIFFYAYFA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_152351

ORF Size: 1836 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:

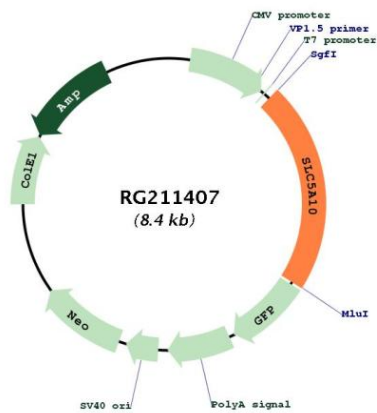
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_152351.5](#)

RefSeq Size: 2139 bp
RefSeq ORF: 1839 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-transport 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 RG211407