

## Product datasheet for **RG238920**

### SLC5A10 (NM\_001282417) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A10 (NM_001282417) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG238920 representing NM\_001282417.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACGTGGTGGCCGATTGGAGCCTCCCTCTTCGCCAGCAGCGAGGGCTCTGGCCTTTCATTGGACTG
CGGGCTCAGGCGCGGCAGGAGGTCTGGCCGTGGCAGGCTTCGAGTGAATGCCACGTACGTGCTGCTG
GCACTGGCATGGGTGTTCTGTGCCATCTACATCTCCTCAGAGATCGTCACCTTACCTGAGTACATTCAG
AAGCGCTACGGGGCCAGCGGATCCGCATGTACCTGTCTGTCTCCTGTCCCTGCTACTGTCTGTCTTACC
AAGATATCGCTGGACCTGTACGCGGGGGCTCTGTTTGTGCACATCTGCCTGGGCTGGAACCTCTACCTC
TCCACCATCCTCAGCTCGGCATCACAGCCCTGTACACCATCGCAGCTTTTGACCAGATCGGTGGTTAC
GGGAGCTGGAGGAGCCTACGCCAGGCCATTCCCTCCAGGACCATTGCCAACACCACCTGCCACCTG
CCACGTACAGACGCCATGCACATGTTTCGAGACCCCCACAGGGGACCTGCCGTGGACCGGGATGACC
TTTGGCCTGACCATCATGGCCACCTGGTACTGGTGCACCGACCAGGTATCGTGCAGCGATCACTGTCA
GCCCGGGACCTGAACCATGCCAAGCGGGCTCCATCCTGGCCAGTACCTCAAGATGCTCCCATGGGC
CTGATCATCATGCCGGGCATGATCAGCCCGCATTTGTTCCAGGTGCTCATGTCTATGAGGAGAGACAC
CAAGTGTCCGTCTCTCGAACAGATGATGTGGGCTGCGTGGTCCCGTCCGAGTGCCTGCGGGCCTGCGGG
GCCGAGGTGCGCTGCTCCAACATCGCCTACCCCAAGCTGGTCAATGGAACCTGATGCCCATCGGTCTGCGG
GGGCTGATGATCGCAGTATGCTGGCGCGCTCATGTCGTGCTGACCTCCATCTTCAACAGCAGCAGC
ACCCTCTTCACTATGGACATCTGGAGGGCGGCTGCGTCCCCGCTCCGGCAGCGGGAGCTCCTGCTGGTG
GGAGCAGTGGGATACCCTCAACACCCCGCCCTCAAAGCCGTCTCAGCTTCTCCTGCCGAAACA
CCACCATGGAGCGGTATCTCCTAGGCCCTGGTGGTATGGATCTCTGGCTGGTCAATGAGGACTCATC
GGCGTAGTGTGGCCTGGATCCCGTCTGCAGGACTCCAACAGCGGGCAACTCTTACATACATGCAG
TCAGTGACCAGCTCCCTGGCCCCACAGTGCAGTGCAGTCTTTGTCTGGCGTCTTCTGGCGACGTGCC
AACGAGCAGGGGGCCTTCTGGGGCTGATAGCAGGGCTGGTGGTGGGGGCCACGAGGCTGGTCTGGAA
TTCCTGAACCCAGCCCCACCGTGCAGAGAGCCAGACACGCGGCCAGCCGCTCCTGGGGAGCATCCACTAC
CTGCACTTCGCTGTCGCCCTCTTGCAGTGGTGGTGTGTTGGTGGCTGGAAGCCTGCTGACCCCA
CCCCACAGAGTGTCCAGATTGAGAACCTTACCTGGTGGACCCTGGCTCAGGATGTGCCCTTGGAACT
AAAGCAGGTGATGGCCAAACACCCAGAAACACGCCTTCTGGGCCGTGTCTGTGGCTTCAATGCCATC
CTCCTCATGTGTCAACATATTCTTTATGCCTACTTCGCC
ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238920  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MTWWPIGASLFASESGSLFVGLAGSAGGLAVAGFEWNATYVLLALAWVFPVIYISSEIVTLPEYIQ
KRYGGQIRMYLSVLSLLL SVFTKISLDLYAGALFVHICLGWNFYLSTILTLGITALYTI AAFDQIGGY
GQLEAAYAQAIPSRITANTTCHLPRTDAMHMRDPHTGDLPTWGMTFGLTIMATWYWCTDQVIVQRSLS
ARDLNHAKAGSILASYLKMLPMGLIIMPGMISRALFPGAHVVEERHQVSVSRDQVGVVSECLRACG
AEVGCNSIAYPKLVMELMPIGLRGLMIAVMLAALMSSLTIFNSSTLFTMDIWRRLRPRSGERELLLV
GRTGIPSTPPAPQRSLSFLLPETPLERYLLGLVYMDLWLVIVALIGVSVAVIPVLQDSNSGQLFIYMQ
SVTSSLAPPVTA VFLVGFWRANEQGAFWGLIAGLVVGATRLVLEFLNAPPCEPDTRPAVLGSIHY
LHFAVALFALSGAVVAGSLLTPPPQSVQIENLTWWTLAQDVPLGKAGDGTQPKHAFWARVCGFNAI
LLMCVNIFFYAYFA
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDHMHFKSAIHPHILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

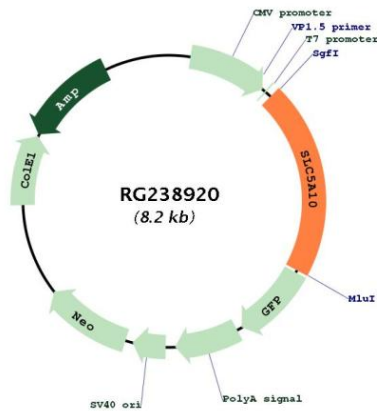
Sgfl-MluI



**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 RG238920