

Product datasheet for **RG200418**

Glucose Transporter 5 GLUT5 (SLC2A5) (NM_003039) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glucose Transporter 5 GLUT5 (SLC2A5) (NM_003039) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glucose Transporter 5 GLUT5
Synonyms:	GLUT-5; GLUT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200418 representing NM_003039
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCAACAGGATCAGAGCATGAAGGAAGGGAGGCTGACGCTTGTGCTTGGCCTGGCAACCTGATAG
 CTGCCCTTGGGTATCCTTCCAGTATGGGTACAACGTGGCTGCTGTCAACTCCCCAGCACTGCTCATGCA
 ACAATTTTACAATGAGACTTACTATGGTAGGACCGGTGAATTCATGGAAGACTTCCCCTTACGTTGCTG
 TGGTCTGTAACCGTGTCCATGTTTCCATTTGGAGGTTTATCGGATCCCTCCTGGTCGGCCCTTGGTGA
 ATAAATTTGGCAGAAAAGGGGCTTGTGTTCAACAACATATTTTCTATCGTGCCTGCGATCTTAATGGG
 ATGCAGCAGAGTCGCCACATCATTTGAGCTTATCATTATTTCCAGACTTTTGGTGGGAATATGTGCAGGT
 GTATCTTCCAACGTGGTCCCATGTACTTAGGGGAGCTGGCCCTAAAAACCTGCGGGGGCTCTCGGGG
 TGGTCCCCAGCTCTTCATCACTGTTGGCATCCTTGTGGCCAGATCTTTGGTCTTCGGAATCTCCTTGC
 AAACGTAGATGGCTGGCCGATCCTGCTGGGGCTGACCGGGTCCCGCGCGCTGCAGCTCCTTCTGCTG
 CCCTTCTTCCCCGAGAGCCCAGGTACCTGCTGATTTCAGAAGAAAGACGAAGCGGCCCAAGAAAGCCC
 TACAGACGCTGCGCGGCTGGGACTCTGTGGACAGGGAGGTGGCCGAGATCCGGCAGGAGGATGAGGCAGA
 GAAGGCCGCGGGCTTCACTCCGTGCTGAAGCTGTTCCGGATGCGCTCGCTGCGCTGGCAGCTGCTGTCC
 ATCATCGTCTCATGGGCGGCCAGCAGCTGTCGGGCGTCAACGCTATCTACTACTACGCGGACCAGATCT
 ACCTGAGCGCGGGCTGCCGGAGGAGCAGTGCAGTACGTGACGGCCGGCACCAGGGCCGTGAACGTGGT
 CATGACCTTCTGCGCCGTGTTCTGTTGGAGCTCCTGGGTGGAGGCTGCTGCTGCTGCTGGGCTTCTCC
 ATCTGCCTCATAGCCTGCTGCGTCACTGCAGCTCTGGCACTGCAGGACACAGTGTCCCTGGATGCCAT
 ACATCAGCATCGTCTGTGCATCTCCTACGTCATAGGACATGCCCTCGGGCCAGTCCCATACCCGCGCT
 GCTCATCACTGAGATCTTCTGCACTCCTCGGCCATCTGCCTTCATGGTGGGGGCGAGTGTGCAGCTGG
 CTCTCCAACTTACCCTGGGCTTGTCTTCCCGTTCATCCAGGAGGGCTCGGCCGTACAGCTTATTG
 TCTTCGCCGTGATCTGCCTCCTCACCACCATCTACATCTTCTTATTGTCCCGGAGACCAAGGCCAAGAC
 GTTCATAGAGATCAACCAGATTTTACCAAGATGAATAAGGTGTCTGAAGTGTACCCGAAAAGGAGGAA
 CTGAAAGAGCTTCCACCTGCTCACTTCGGAACAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200418 representing NM_003039
 Red=Cloning site Green=Tags(s)

MEQQDQSMKEGRLLVLAALATLIAAFGSSFQYGYNVAAVNSPALLMQQFYNETYYGRTGEFMEDFPLTLL
 WSVTVSMFPFGGFIGSLLVGPLVNFGRKGALLFNNIFSIVPAILMGCSRVSFELIIISRLLVGICAG
 VSSNVVPMYLGELAPKNLRGALGVVPLFITVGIQIFGLRNLLANVDGWPIILLGLTGVPAAALQLLLL
 PFFPESPRYLLIQKDEAAAKKALQTLRGWDSVDREVAEIRQEDEAEKAAGFISVLKLFMRSLRWQLLS
 IIVLMGGQQLSGVNAIYYADQIYLSAGVPEEHVQYVYTAGTAVNVVMTFCVAVFVVELLRLLLLLGF
 ICLIAACVLTAAALALQDTVSWMPYISIVCVISYVIGHALGPSPIPALITEIFLQSSRPSAFMVGGSVHW
 LSNFTVGLIFPFIQEGLPYSFIVFAVICLLTTIYIFLIVPETKAKTFIEINQIFTKMNVSEVYPEKEE
 LKELPPVTSEQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003039

ORF Size: 1503 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_003039.3](#)

RefSeq Size: 2218 bp

RefSeq ORF: 1506 bp

Locus ID: 6518

UniProt ID: [P22732](#)

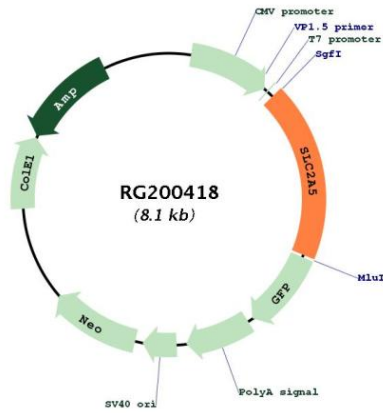
Cytogenetics: 1p36.23

Domains: sugar_tr

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene is a fructose transporter responsible for fructose uptake by the small intestine. The encoded protein also is necessary for the increase in blood pressure due to high dietary fructose consumption. [provided by RefSeq, Jun 2016]

Product images:



Circular map for RG200418