

Product datasheet for **SC118265**

Glucose Transporter 5 GLUT5 (SLC2A5) (NM_003039) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glucose Transporter 5 GLUT5 (SLC2A5) (NM_003039) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glucose Transporter 5 GLUT5
Synonyms:	GLUT-5; GLUT5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118265 sequence for NM_003039 edited (data generated by NextGen Sequencing)

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ATGGAGCAACAGGATCAGAGCATGAAGGAAGGGAGGCTGACGCTTGTGCTTGCCCTGGCA
ACCCTGATAGCTGCCTTTGGGTTCATCCTTCCAGTATGGGTACAACGTGGCTGCTGTCAAC
TCCCCAGCACTGCTCATGCAACAATTTTACAATGAGACTTACTATGGTAGGACCGGTGAA
TTCATGGAAGACTTCCCCTTGACGTTGCTGTGGTCTGTAACCGTGTCCATGTTTCCATTT
GGAGGGTTTATCGGATCCCTCCTGGTCGGCCCTTGGTGAATAAATTTGGCAGAAAAGGG
GCCTTGCTGTTCAACAACATATTTTCTATCGTGCCTGCGATCTTAATGGGATGCAGCAGA
GTCGCCACATCATTGAGCTTATCATTATTTCCAGACTTTTGGTGGGAATATGTGACAGGT
GTATCTTCCAACGTGGTCCCATGTACTTAGGGGAGCTGGCCCTAAAAACCTGCGGGGG
GCTCTCGGGTGGTGCACCAGCTCTTCATCACTGTTGGCATCCTTGTGGCCAGATCTTT
GGTCTTCGGAATCTCCTTGCAAACGTAGATGGCTGGCCGATCCTGCTGGGGCTGACCGGG
GTCCCCGCGGCTGCAGCTCCTTCTGCTGCCCTTCTCCCGAGAGCCCAAGTACCTG
CTGATTCAGAAGAAGACGAAGCGGCCCAAGAAAGCCCTACAGACGCTGCGCGGCTGG
GACTCTGTGGACAGGGAGGTGGCCGAGATCCGGCAGGAGGATGAGGCAGAGAAGGCCGCG
GGCTTCATCTCCGTGCTGAAGCTGTTCCGGATGCGCTCGCTGCGTGGCAGCTGCTGTCC
ATCATCGTCTCATGGGCGGCCAGCAGCTGTGGGCGTCAACGNNATCTACTACTACGCG
GACCAGATCTACCTGAGCGCCGCGTGGCCGAGGAGCAGTGCAGTACGTGACGGCCGGC
ACCGGGGCGTGAACGTGGTTCATGACCTTCTGCGCCGTGTTCTGGTGGAGCTCCTGGGT
CGGAGGCTGCTGCTGCTGCTGGGCTTCTCCATCTGCCTCATAGCCTGCTGCGTGCCTACT
GCAGCTCTGGCACTGCAGGACACAGTGTCTGGATGCCATACATCAGCATCGTCTGTGTC
ATCTCTACGTCATAGGACATGCCCTCGGGCCAGTCCCATAACCGCGCTGCTCATCACT
GAGATCTCTCGAGTCTCTCGGCCATCTGCCCTCATGGTGGGGGCGAGTGTGCATGG
CTCTCCAACCTCACCGTGGGCTTGATCTTCCCGTTCATCCAGGAGGGCCTCGGCCGTAC
AGCTTCATTGTCTTCCGCGTGTCTGCCTCCTCACCCACATCTACATCTTCTTATTGTC
CCGGAGACCAAGGCCAAGACGTTTCATAGAGATCAACCAGATTTTACCAAGATGAATAAG
GTGTCTGAAGTGTACCCGAAAAGGAGGAACTGAAAGAGCTTCCACCTGTCACTTCGGAA
CAGTGA
    
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Clone variation with respect to NM_003039.2
884 c=>n;885 t=>n

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_003039 unedited
AGAATTTTGTAAACGACTCACTATAGGCGGCCGGAATTCGGCACCAAACTGCACCAC
ATTATCCCAGNAGGAAAAGCAGACGCGTGACAGAGTCAGAGAGCAGGCATAGAGTGCTG
TGGCAGTCAGCCAGTGCCACATCAACACCAAGGAGAGTCTGCGGGTGTGTGCAAGGC
CGGGGGACAGGGTCTTGTCTGTCCACTAGGCTGGAGTGCAGTGGCATGATCGAATTCCT
GGGCTCAAGCGATCCTCTTGCCTCAGTGACGCGTTACTTTGGCTAAAAGGAGGTGAGCG
GCACTCTGCCCTTCCAGAGCAAGCATGGAGCAACAGGATCAGAGCATGAAGGAAGGGAGG
CTGACGCTTGTGCTTGCCTGGCAACCCTGATAGCTGCCTTTGGGTATCCTTCCAGTAT
GGGTACAACGTGGCTGCTGTCAACTCCCCAGCACTGCTCATGCAACAATTTTACAATGAG
ACTTACTATGGTAGGACCGGTGAATTCATGGAAGACTTCCCCTTGACGTTGCTGTGGTCT
GTAACCGTGTCCATGTTTCCATTTGGAGGGTTTATCGGATCCCTCCTGGTCGGCCCTTG
GTGAATAAATTTGGCAGAAAAGGGCCTTGTGTTCAACAACATATTTTCTATCGTGCCT
GCGATCTTAATGGGATGCAGCAGAGTCGCCACATCATTTGAGCTTATCATTATTTCCAGA
CTTTTGGTGGGAATATGTGCAGGTGATCTTCAACGTGGTCCCATGTACTTANGNAG
CTGGCCCCTAAAAACTGCNGNGGCNTCTCGNGTGGTGCACCAGCTTTCATCACTGTTG
GCATNCTTTGTGGCCAGATCTTTGTCTTCGNAATCTNCTTGCAACGTANATGGCTGGC
CGATCCTGCTGGGGCTGACCGNGTCCCCGCGNGCTGCAGCTTCTGCTGCCCTTTN
CCGAGACCCCACTACTGCTGAC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003039 unedited NNNNGGTTTTATCTATGNACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTT TTGAAATGATCAGGTTCAATTTATTGACTACACAGAAGCAATTCATTTTCCACTAACA AAATAATTTAGGATGAAGAATTCTGACTCAGTGTCTCCACAGGAACCTGTTCTCAGCTT TCTGGATGTCATTGTTTCTGACATCACACCTTCTAGACAGGTATTTCTGGAAAAGGATC TGGTAAGAGGATGAATTTGGCTCTAAACAAATGCCCATGGCCCCGGAAGACCTGTCGGGG CCACCAAGTTAGTTTCTCTGGCAAATTTGATTCCTTCCATCTCACCCTATAGTAACTG TTGTTGTTATGTTACCAGGAGCCACACAAAGTTGACCCATCAAGGTGGAGCCACGTTAC CAGGAGCCACACGAAGGCTGAACCAGCAAAGTGGAGGACCAGCTGTTAATTGACTCGGG TCTGGTGACAGGCCAACATGGAGAGAGACAGCCAGCTTCAAGAACAGCAAGGCAGCCCT TTGCACAGTTCCCACTGGGGTGGGAGGCTGGAGATGAGGACTGCATTCCACATCAGAGT TGTTTTATTTCTGGATATTCACAGACAGCTAGAAGTCAGAAAAAAGCCAAAGTGGGAA GCCCTGGCAGACCAGCTCCACTGGCTTCTCTCCAGAGTCACTGTTCCGAAGTGACAGG TGAAGCTCTTTCAGTTCTCTTTCCGGGTACACTTCAGACACCTTATTCATCTTGGT GAAAATCTGGTTGATCTCTATGAACGTCTTGGCCTTGGTCTCCGGGACATCAAGAAATGT ANATGTGGTGAGGAGGCAGATCCNGCGAAACATTGAACTGTCTGGGCCAG
Restriction Sites:	NotI-NotI
ACCN:	NM_003039
Insert Size:	2680 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_003039.1 , NP_003030.1
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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Variants 1 and 3 both encode the same isoform (1).