

Product datasheet for **RC227134**

Glucose Transporter 5 GLUT5 (SLC2A5) (NM_001135585) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glucose Transporter 5 GLUT5 (SLC2A5) (NM_001135585) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC2A5
Synonyms:	GLUT-5; GLUT5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC227134 representing NM_001135585 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGCAACAGGATCAGAGCATGAAGGAAGGGAGGCTGACGCTTGTGCTTGCCTGGCAACCCTGATAG
CTGCCTTTGGGTCATCCTTCCAGTATGGGTACAACGTGGCTGCTGTCAACTCCCCAGCACTGCTCATGCA
ACAATTTTACAATGAGACTTACTATGGTAGGACCGGTGAATTCATGGAAGACTTCCCTTGACGTTGCTG
TGGTCTGTAACCGTGTCCATGTTTCCATTTGGAGGGTTTATCGGATCCCTCCTGGTGGGCCCTTGGTGA
ATAAATTTGGCAGAAAAGGGGCCTTGTGTTCAACAACATATTTTCTATCGTGCCTGCGATCTTAATGGG
ATGCAGCAGAGTCGCCACATCATTTGAGCTTATCATTATTTCCAGACTTTTGGTGGGAATATGTGCAGGT
GTATCTTCCAACGTGGTCCCCATGTACTTAGGGGAGCTGGCCCCATAAAACCTGCGGGGGGCTCTCGGG
TGGTGGCCAGCTCTTCACTGTTGGCATCCTTGTGGCCAGATCTTGGTCTTCGGAATCTCCTTGC
AAACGTAGATGGTGAGTTCAGGACATCTCGGGAGCACCCACCCCTTACCACCTACCCTTGGCCCCCTC
CTTGTGTTCCAAGCCACCACCACAGGACAGGACTTTCTGCAGACTGGTCTTCTAACAGGCTGGATGT
CCTTGGGGGCCCATCTGTCCCAGCCAACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227134 representing NM_001135585
Red=Cloning site Green=Tags(s)

MEQQDQSMKEGRLTLVLALATLIAAFGSSFYGYNVAAVNSPALLMQQFYNETYYGRTGEFMEDFPLTLL
 WSVTVSMFPFGGFIGSLLVGPLVNKFGKRGALLFNNIFSIVPAIILMGCSRVSFELIIISRLLVGICAG
 VSSNVVPMYLGELAPKNLRGALGVVPQLFITVIGILVAQIFGLRNLLANVDGEFRTSREHPHPFTTTLGPL
 LVFQSHHHRTGLSADWSLLTGWMSLGGPSCPEPT

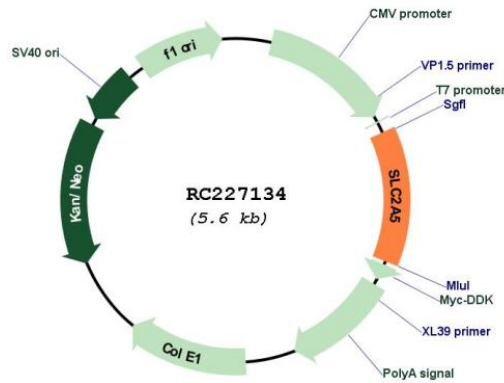
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001135585
ORF Size: 732 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_001135585.2](#)

RefSeq ORF: 735 bp

Locus ID: 6518

UniProt ID: [P22732](#)

Cytogenetics: 1p36.23

Protein Families: Transmembrane

MW: 26.3 kDa

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]