

Product datasheet for **RC204430**

Glucose Transporter GLUT3 (SLC2A3) (NM_006931) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glucose Transporter GLUT3 (SLC2A3) (NM_006931) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Glucose Transporter GLUT3
Synonyms:	GLUT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204430 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGACACAGAAGGTCACCCAGCTCTGATATTTGCCATCACAGTTGCTACAATCGGCTCTTTCCAAT
 TTGGCTACAACACTGGGGTCATCAATGCTCCTGAGAAGATCATAAAGGAATTTATCAATAAACTTTGAC
 GGACAAGGAAATGCCCCACCCTCTGAGGTGCTGCTCACGTCTCTCTGGTCTTGTCTGTGGCCATATTT
 TCCGTCGGGGGTATGATCGGCTCCTTTTCCGTCGGACTCTTCGTCACCCTTTGGCAGGCGCAATTCAA
 TGCTGATTGTCAACCTGTTGGCTGCTACTGGTGGCTGCTTTATGGGACTGTGAAAGTAGCTAAGTCGGT
 TGAAATGCTGATCCTGGGTCGTTGGTTATTGGCCTCTTCTCGGACTCTGCACAGGTTTTGTGCCCATG
 TACATTGGAGAGATCTCGCTACTGCCCTGCGGGTGCCTTTGGCACTCTCAACCAGCTGGGCATCGTTG
 TTGGAATCTGGTGGCCAGATCTTTGGTCTGGAATTCATCCTTGGGTCTGAAGAGCTATGGCCGCTGCT
 ACTGGGTTTTACCATCCTTCTGCTATCCTACAAAGTGCAGCCCTCCATTTTGCCTGAAAGTCCCAGA
 TTTTTGCTCATTAAAGAAAAGAAGAGGAGAATGCTAAGCAGATCCTCCAGCGGTTGTGGGGACCCAGG
 ATGTATCCCAAGACATCCAGGAGATGAAAGATGAGAGTGAAGGATGTCACAAGAAAAGCAAGTACCGT
 GCTAGAGCTCTTTAGAGTGTCCAGCTACCGACAGCCCATCATATTTCCATTGTGCTCCAGCTCTCTCAG
 CAGCTCTCTGGGATCAATGCTGTGTTCTATTACTCAACAGGAATCTTCAAGGATGCAGGTGTTCAAGAGC
 CCATCTATGCCACCATCGGCGCGGGTGTGGTAACTACTCTTCACTGTAGTTTCTCTATTTCTGGTGGAA
 AAGGGCAGGAAGAAGGACTCTGCATATGATAGGCCTTGGAGGGATGGCTTTTGTCCACGCTCATGACT
 GTTCTTTGTTATTAAGGATAACTATAATGGGATGAGCTTTGTCTGTATTGGGGCTATCTTGGTCTTTG
 TAGCCTTCTTTGAAATTTGACCAGGCCCATTCCTGGTTTATTGTGGCCGAACCTTTCAGCCAGGGCCC
 CCGCCCAGCTGCGATGGCAGTGGCCGGCTGCTCCAAGTGGACCTCCAACCTCCTAGTCGGATTGCTCTTC
 CCTCCGCTGCTCACTATTTAGGAGCCTACGTTTTTATTATCTTACCAGGCTTCTCATTACCTTCTTGG
 CTTTTACCTTCTCAAAGTCCCTGAGACCCGTGGCAGGACTTTTGAGGATATCACACGGGCTTTGAAGG
 GCAGGCACACGGTGCAGATAGATCTGAAAGGACGGCGTCATGGAGATGAACAGCATCGAGCCTGCTAAG
 GAGACCACCACCAATGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204430 protein sequence
 Red=Cloning site Green=Tags(s)

MGTQKVTPALIFAITVATIGSFQFGYNTGVINAPEKIIKEFINKTLTDKGNAPPSEVLLTSLWLSVAIF
 SVGGMIGSFSVGLFVNRFGRNSMLIVNLLAVTGGCFMGLCKVAKSVEMLILGRLVIGLFCGLCTGFVPM
 YIGEISPTALRGAFGTLNQLGIVVGILVAQIFGLEFILGSEELWPLLLGFTILPAILQSAALPFCPESPR
 FLLINRKEEENAKQILQRLWGTQDVSQDIQEMKDESARMSQEKQVTVLELFRVSSYRQPIIISIVLQLSQ
 QLSGINAVFYSTGIFKDAGVQEPIYATIGAGVVNTIFTVVSLFLVERAGRRTLHMIGLGMAFCSTLMT
 VSLLLKDNYNGMSFVCIGAILVFVAFFEIGPGPIPWFIVAELFSQGRPAAMAVAGCSNWTNLFVGLLF
 PSAAHYLGAYVFIIFTGFLITFLAFTFFKVPETRGRTFEDITRAFEGQAHGADRSGKDGVMEMNSIEPAK
 ETTTNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6013_h01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_006931

ORF Size: 1488 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_006931.3](#)

RefSeq Size: 3938 bp

RefSeq ORF: 1491 bp

Locus ID: 6515

UniProt ID: [P11169](#)

Cytogenetics: 12p13.31

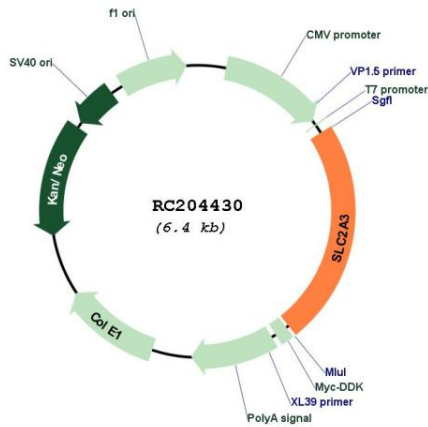
Domains: sugar_tr

Protein Families: Transmembrane

MW: 53.9 kDa

Gene Summary: Facilitative glucose transporter that can also mediate the uptake of various other monosaccharides across the cell membrane (PubMed:9477959, PubMed:26176916). Mediates the uptake of glucose, 2-deoxyglucose, galactose, mannose, xylose and fucose, and probably also dehydroascorbate (PubMed:9477959, PubMed:26176916). Does not mediate fructose transport (PubMed:9477959, PubMed:26176916).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC204430