

## Product datasheet for **RG204430**

### 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:                      | TurboGFP  |
| Symbol:                   | Glucose Transporter GLUT3   |
| Synonyms:                 | GLUT3   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |



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**ORF Nucleotide Sequence:**

>RG204430 representing NM\_006931  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGACACAGAAGGTCACCCAGCTCTGATATTTGCCATCACAGTTGCTACAATCGGCTCTTTCCAAT  
 TTGGCTACAACACTGGGGTCATCAATGCTCCTGAGAAGATCATAAAGGAATTTATCAATAAACTTTGAC  
 GGACAAGGAAATGCCCCACCCTCTGAGGTGCTGCTCACGTCTCTCTGGTCTTGTCTGTGGCCATATTT  
 TCCGTCGGGGTATGATCGGCTCCTTTCCGTCGGACTCTTCGTCACCCTTTGGCAGGCGCAATTCAA  
 TGCTGATTGTCAACCTGTTGGCTGCTACTGGTGGCTGCTTTATGGGACTGTGAAAGTAGCTAAGTCGGT  
 TGAAATGCTGATCCTGGGTCGTTGGTTATTGGCCTCTTCTCGGACTCTGCACAGGTTTGTGCCCATG  
 TACATTGGAGAGATCTCGCTACTGCCCTGCGGGTGCCTTTGGCACTCTCAACCAGCTGGGCATCGTTG  
 TTGGAATCTGGTGGCCAGATCTTTGGTCTGGAATTCATCCTTGGGTCTGAAGAGCTATGGCCGCTGCT  
 ACTGGGTTTTACCATCCTCCTGCTATCCTACAAAGTGCAGCCCTCCATTTTGCCTGAAAGTCCCAGA  
 TTTTTGCTCATTAAAGAAAAGAAGAGGAGAATGCTAAGCAGATCCTCCAGCGGTTGTGGGGACCCAGG  
 ATGTATCCCAAGACATCCAGGAGATGAAAGATGAGAGTGAAGGATGTCACAAGAAAAGCAAGTACCCGT  
 GCTAGAGCTCTTTAGAGTGTCCAGCTACCGACAGCCCATCATATTTCCATTGTGCTCCAGCTCTCTCAG  
 CAGCTCTCTGGGATCAATGCTGTGTTCTATTACTCAACAGGAATCTTCAAGGATGCAGGTGTTCAAGAGC  
 CCATCTATGCCACCATCGGCGCGGGTGTGGTTAACTACTCTTCACTGTAGTTTCTCTATTTCTGGTGGAA  
 AAGGGCAGGAAGAAGGACTCTGCATATGATAGGCTTGGAGGGATGGCTTTTGTCCACGCTCATGACT  
 GTTCTTTGTTATTAAGGATACTATAATGGGATGAGCTTTGTCTGTATTGGGGCTATCTTGGTCTTTG  
 TAGCCTCTTTGAAATTTGACCAGGCCCATTCCTGGTTTATTGTGGCCGAACCTTTCAGCCAGGCCCC  
 CCGCCCAGCTGCGATGGCAGTGGCCGGCTGCTCAACTGGACCTCAACTTCTAGTCGGATTGCTCTTC  
 CCTCCGCTGCTCACTATTTAGGAGCCTACGTTTTTATTATCTTACCAGGCTTCTCATTACCTTCTTGG  
 CTTTTACCTTCTCAAAGTCCCTGAGACCCGTGGCAGGACTTTTGAGGATATCACACGGGCTTTGAAGG  
 GCAGGCACACGGTGCAGATAGATCTGAAAGGACGGCGTCATGGAGATGAACAGCATCGAGCCTGCTAAG  
 GAGACCACCACCAATGTC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG204430 representing NM\_006931  
 Red=Cloning site Green=Tags(s)

MGTQKVTPALIFAITVATIGSFQFGYNTGVINAPEKIIKEFINKLTDKGNAPPSEVLLTSLWLSVAIF  
 SVGGMIGSFSVGLFVNRFGRRNSMLIVNLLAVTGGCFMGLCKVAKSVEMLILGRLVIGLFCGLCTGFVPM  
 YIGEISPTALRGAFGTLNQLGIVVGILVAQIFGLEFILGSEELWPLLLGFTILPAILQSAALPFCPESPR  
 FLLINRKEENAKQILQRLWGTQDVSQDIQEMKDESARMSQEKQVTVLELFRVSSYRQPIIISIVLQLSQ  
 QLSGINAVFYYSTGIFKDAGVQEPIYATIGAGVVNTIFTVVSLFLVERAGRRTLHMI GLGMAFCSTLMT  
 VLLLLKDNYNMGSFVCIGAILVFVAFFEIGPGPIPWFIVAELFSQGPRAAMAVAGCSNWT SNFLVGLLF  
 PSAAHYLGAYVFIIFTGFLITFLAFTFFKVPETRGRTFEDITRAFEGQAHGADRSGKDGVMEMNSIEPAK  
 ETTTNV

**TRTRPLE** – GFP Tag – V

**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:** 3915 bp

**RefSeq ORF:** 1491 bp

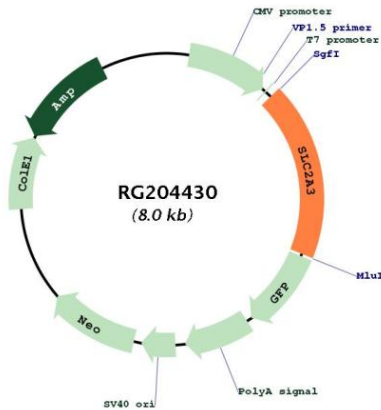
**Locus ID:** 6515

**UniProt ID:** [P11169](#)

**Cytogenetics:** 12p13.31

|                   |   |
|-------------------|---|
| Domains:          | sugar_tr  |
| Protein Families: | Transmembrane   |
| 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 RG204430