

## Product datasheet for **RG216671**

### SLC2A14 (NM\_153449) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC2A14 (NM_153449) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC2A14
Synonyms:	GLUT14; SLC2A3P3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG216671 representing NM\_153449  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGTTTCACAATGGTGGCCATGTGTCTGGAATTGGTGGGTTCTTGGTCTCACTGACTCAAGAATGA  
 AGCCGCACACCCTCGCAGTCACCCAGCTCTGATCTTTGCCATCACAGTTGCTACAATCGGCTCTTTCCA  
 GTTTGGCTACAACACTGGGGTCACTCAATGCTCCTGAGACGATCATAAAGGAATTTATCAATAAACTTTG  
 ACGGACAAGGCAAATGCCCTCCCTCTGAGGTGCTGCTCACGAATCTCTGGTCTTGTCTGTGGCCATAT  
 TTTCCGTCGGGGTATGATCGGCTCCTTTCCGTCGGACTCTTTGTTAACCGCTTTGGCAGGCGCAATTC  
 AATGCTGATTGTCAACCTGTTGGCTGCCACTGGTGGCTGCCTTATGGGACTGTGAAAATAGCTGAGTCA  
 GTTGAAATGCTGATCCTGGGCCGCTTGTTATTGGCCTCTTCTGCGGACTCTGCACAGGTTTTGTGCCA  
 TGTACATTGGAGAGATCTCGCTACTGCCCTGAGGGTGCCTTTGGCACTCTCAACCAGCTGGGCATAGT  
 TATTGGAATTCTGGTGGCCAGATCTTTGGTCTGGAATCATCCTTGGGCTGAAGAGCTATGGCCGGTG  
 CTATTAGGCTTTACCATCCTTCCAGCTATCCTGCAAAGTGCAGCCCTTCCATGTTGCCCTGAAAGTCCCA  
 GATTTTGTCTCATTAAACAGAAAAAAGAGGAGAATGCTACGCGGATCCTCCAGCGTTGTGGGGACCCA  
 GGATGTATCCCAAGACATCCAGGAGATGAAAGATGAGAGTGCAAGGATGTACAAGAAAAGCAAGTCAAC  
 GTGCTGGAGCTCTTAGAGTGTCCAGCTACCGACAGCCCATCATCATTCCATTGTCTCCAGCTCTCTC  
 AGCAGCTCTCTGGGATCAATGCTGTGTTCTATTACTCAACAGGAATCTTCAAGGATGCAGGTGTTCAACA  
 GCCCATCTATGCCACCATCAGCGCGGTGTGGTTAATACTATCTTCACTTTACTTTCTCTATTTCTGGTG  
 GAAAGGGCAGGAAGAAGGACTCTGCATATGATAGGCCTTGGAGGGATGGCTTTTTGTCCACGCTCATGA  
 CTGTTTTCTTTGTTATTAAGAATCACTATAATGGGATGAGCTTTGTCTGTATTGGGGCTATCTTGGTCTT  
 TGTGGCCTGTTTTGAAATTGGACCAGGCCCATCCCTGGTTTTATTGTGGCCGAACCTCTTACGCCAGGGC  
 CCCCAGCTGCGATGGCAGTGGCCGCTGCTCCAACCTGGACCTCCAACCTCCTAGTCGGATTGCTCT  
 TCCCCTCTGCTGTTACTATTTAGGAGCCTACGTTTTTATTATCTTACCAGGCTTCTCATTACCTTCTT  
 GGCCTTACCTTCTTCAAAGTCCCTGAGACCCGTGGCAGGACTTTTGGAGATATCACACGGGCTTTGAA  
 GGGCAGGCACACGGTGCAGATAGATCTGGGAAGGACGGCGTCATGGGGATGAACAGCATCGAGCTGCTA  
 AGGAGACCACCAATGTC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG216671 representing NM\_153449  
 Red=Cloning site Green=Tags(s)

MEFHNGGHVSGIGGFLVSLTSRMPHTLAVTPALIFAITVATIGSFQFGYNTGVINAPETIIKEFINKTL  
 TDKANAPPSEVLLTNLWSLSVAIFSVGGMIGSFVGLFVNRFRRNSMLIVNLLAATGGCLMGLCKIAES  
 VEMLILGRLVIGLFCGLCTGFVPMYIGEISPTALRGAFGLNQLGIVIGILVAQIFGLELILGSEELWPV  
 LLGFTILPAILQSAALPCCPESPRFLLINRKKEENATRILQRLWGTQDVSDIQEMKDESARMSQEKQVT  
 VLELFRVSSYRQPIIISIVLQLSQQLSGINAVFYSTGIFKDAGVQQPIYATISAGVVNTIFTLLSLFLV  
 ERAGRRTLHMIGLGGMAFCSTLMTVSLLLKNHYNGMSFVCIGAILVFVACFEIGPGPIPFIVAELFSQG  
 PRPAAMAVAGCSNWTSNFLVGLLFPAAAYL GAYVFIIFTGLITFLAFTFFKVPETRGRTFEDITRAFE  
 GQAHGADRSGKDGVMGMNSIEPAKETTTNV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_153449

ORF Size: 1560 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](mailto: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.

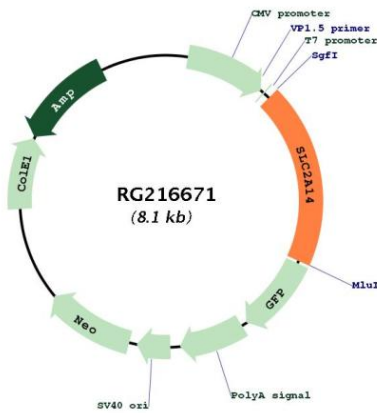
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_153449.4](#)

RefSeq Size:	2195 bp
RefSeq ORF:	1563 bp
Locus ID:	144195
UniProt ID:	<u>Q8TDB8</u>
Cytogenetics:	12p13.31
Protein Families:	Transmembrane
Gene Summary:	Members of the glucose transporter (GLUT) family, including SLC2A14, are highly conserved integral membrane proteins that transport hexoses such as glucose and fructose into all mammalian cells. GLUTs show tissue and cell-type specific expression (Wu and Freeze, 2002 [PubMed 12504846]).[supplied by OMIM, Mar 2008]

**Product images:**



Circular map for RG216671