

## Product datasheet for **RG238774**

### **SLC2A14 (NM\_001286237) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SLC2A14 (NM_001286237) 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:**

>RG238774 representing NM\_001286237.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCAAAAGACTCCAACCTGTTGAGAGTGAAGTACTGCTGGGTGTGAAACAAGGAGATGAAATGCGGCAT
TTCTTTTTTTCTTCTCAGACCTCCACTCTGGAGAAGAGTCAGAATGGGGCGCTCGGGGAGGAGGTCACC
CCAGCTCTGATCTTTGCCATCACAGTTGCTACAATCGGCTCTTTCCAGTTTGGCTACAACACTGGGGTC
ATCAATGCTCCTGAGACGATCATAAAGGAATTTATCAATAAACTTTGACGGACAAGGCAATGCCCT
CCCTCTGAGGTGCTGCTCACGAATCTCTGGTCTTGTCTGTGGCCATATTTCCGTGGGGGATGATC
GGCTCCTTTCCGTGGACTCTTTGTTAACCGCTTTGGCAGGCGCAATCAATGCTGATTGTCAACCTG
TTGGCTGCCACTGGTGGCTGCCTTATGGGACTGTGAAAATAGCTGAGTCAGTTGAAATGCTGATCCTG
GGCCGCTTGGTTATTGGCTCTTCTGCGGACTCTGCACAGTTTTGTGCCATGTACATTGGAGAGATC
TCGCCTACTGCCCTGAGGGTGCCTTTGGCACTCTCAACCAGCTGGGCATAGTTATTGGAATTCTGGTG
GCCAGATCTTTGGTCTGGAACATCCTTGGGTCTGAAGAGCTATGGCCGGTGTATTAGGCTTTACC
ATCCTTCCAGCTATCCTGCAAAGTGCAGCCCTCCATGTTGCCCTGAAAGTCCCAGATTTTTGTCTATT
AACAGAAAAAAGAGGAGAATGCTACGCGGATCCTCCAGCGGTTGTGGGGACCCAGGATGTATCCCAA
GACATCCAGGAGATGAAAGATGAGAGTGAAGGATGTCACAAGAAAAGCAAGTCACCGTGTGGAGCTC
TTAGAGTGTCCAGCTACCGACAGCCCATCATCTTCCATTGTGCTCCAGCTCTCTCAGCAGCTCTCT
GGGATCAATGCTGTGTTCTATTACTCAACAGGAATCTTCAAGGATGCAGGTGTTCAACAGCCCATCTAT
GCCACCATCAGCGCGGGTGTGGTTAATACTATCTTCACTTTACTTTCTCTATTCTGGTGAAAGGGCA
GGAAGAAGGACTCTGCATATGATAGGCCTTGGAGGGATGGCTTTTTGTTCCAGCTCATGACTGTTTCT
TTGTTATTAAGAATCACTATAATGGGATGAGCTTTGTCTGTATTGGGGCTATCTTGGTCTTTGTGGCC
TGTTTTGAAATTGGACCGCCCATTCCTGGTTTATTGTGGCCGAACCTTTCAGCCAGGGCCCCCGC
CCAGCTGCGATGGCAGTGGCCGGCTGCTCCAACCTGGACCTCCAACCTTCTAGTCGGATTGCTCTTCCCC
TCTGCTGTTACTATTTAGGAGCCTACGTTTTTATTATCTTACCAGGCTTCTCATTACCTTCTTGGCC
TTTACCTTCTTCAAAGTCCCTGAGACCCGTGGCAGGACTTTTGGAGATATCACACGGGCTTTGAAGGG
CAGGCACACGGTGCAGATAGATCTGGGAAGGACGGCGTCATGGGGATGAACAGCATCGAGCCTGCTAAG
GAGACCACCAATGTC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238774  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MQRLQLLRVEVLLGVKQGDENRHHFFSSQTSTLEKSQNGGVGEEVTPALIFAITVATIGSFQFYNTGV
INAPETIIKEFINKTLTDKANAPPSEVLLTNLWLSVAIFSVGGMIGSFSVGLFVNRFGRNSMLIVNL
LAATGGCLMGLCKIAESVEMILGRLVIGLFCGLCTGFVPMYIGEISPTALRGAFGLNQLGIVIGILV
AQIFGLELILGSEELWPVLLGFTILPAILQSAALPCCPESPRFLINRKKEENATRILQRLWGTQDVSQ
DIQEMKDESARMSQEKQVTVLELFRVSSYRQPIIISIVLQLSQQLSGINAVFYSTGIFKDGAVQQPIY
ATISAGVVNTIFTLLSLFLVERAGRRTLHMIGLGGMAFCSTLMTVSLLLKNHYNGMSFVCIGAILVFVA
CFEIGPGPIPWFIVAELFSQGRPAAMAVAGCSNWSNFLVGLLFPAAAYLGAAYVFIIFTGFLITFLA
FTFFKVPETRGRTFEDITRAFEGQAHGADRSGKDGVMGMNSIEPAKETTTNV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

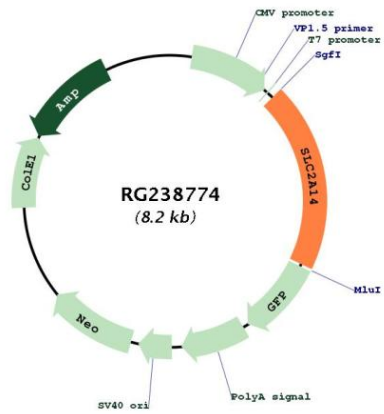
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


- ACCN:** NM\_001286237
- ORF Size:** 1605 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).
- RefSeq:** [NM\\_001286237.1](#), [NP\\_001273166.1](#)
- RefSeq Size:** 3507 bp
- RefSeq ORF:** 1608 bp
- Locus ID:** 144195
- UniProt ID:** [Q8TDB8](#)
- Cytogenetics:** 12p13.31
- Protein Families:** Transmembrane
- MW:** 58.7 kDa
- 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 RG238774