

Product datasheet for **RG238571**

SLC2A14 (NM_001286235) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC2A14 (NM_001286235) 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:

>RG238571 representing NM_001286235.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGACAACAGACAGAATGTCACCCAGCTCTGATCTTTGCCATCACAGTTGCTACAATCGGCTCTTTC
CAGTTTGGCTACAACACTGGGGTCATCAATGCTCCTGAGACGATCATAAAGGAATTTATCAATAAACT
TTGACGGACAAGGCAAAATGCCCTCCCTCTGAGGTGCTGCTCACGAATCTCTGGTCTTGTCTGTGGCC
ATATTTCCGTCGGGGATGATCGGCTCTTTCCGTCGGACTCTTTGTTAACCCTTTGGCAGGCGC
AATTCAATGCTGATTGTCAACCTGTTGGCTGCCACTGGTGGTGCCTTATGGGACTGTGAAAATAGCT
GAGTCAGTTGAAATGCTGATCCTGGGCCGCTTGGTTATTGGCCTCTTCTGCGGACTCTGCACAGTTTT
GTGCCATGTACATTGGAGAGATCTCGCCTACTGCCCTGAGGGTGCCTTTGGCACTCTCAACCAGCTG
GGCATAGTTATTGGAATCTGGTGGCCAGATCTTTGGTCTGGAATCATCTTGGGTCTGAAGAGCTA
TGGCCGGTCTATTAGGCTTTACCATCCTCCAGCTATCTGCAAAGTGCAGCCCTTCCATGTTGCCCT
GAAAGTCCAGATTTTTGCTCATTAAACAGAAAAAAGAGGAGAATGCTACGCGGATCCTCCAGCGTTG
TGGGGCACCAGGATGTATCCAAAGACATCCAGGAGATGAAAGATGAGAGTGCAAGGATGTCAAGAA
AAGCAAGTCACCGTGTGGAGCTCTTAGAGTGTCCAGCTACCGACAGCCATCATCATTCCATTGTG
CTCCAGCTCTCTCAGCAGCTCTCTGGGATCAATGCTGTGTTCTATTACTCAACAGGAATCTCAAGGAT
GCAGGTGTTCAACAGCCCATCTATGCCACCATCAGCGCGGGTGTGGTTAACTACTTCTTCACTTTACTT
TCTCTATTTCTGGTGGAAAGGGCAGGAAGAAGGACTCTGCATATGATAGGCCTTGGAGGGATGGCTTTT
TGTTCCACGCTCATGACTGTTTCTTTGTTATTAAGAATCACTATAATGGGATGAGCTTTGTCTGTATT
GGGGCTATCTGGTCTTTGTGGCCTGTTTGAATTTGGACCAGGCCCATCCCTGGTTTATTGTGGCC
GAACTTTCAGCCAGGGCCCCCGCCAGTGCAGTGGCCGGCTGCTCCAACCTGGACCTCCAAC
TTCCTAGTCGGATTGCTCTTCCCCTCTGCTGCTTACTATTTAGGAGCCTACGTTTTTATTATCTTACC
GGTCTCTCATTACCTTCTTGGCCTTTACCTTCTCAAAGTCCCTGAGACCCGTGGCAGGACTTTTGAG
GATATCACACGGGCTTTGAAGGGCAGGCACACGGTGCAGATAGATCTGGGAAGGACGGCTCATGGGG
ATGAACAGCATCGAGCCTGCTAAGGAGACCACCAATGTC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
```

Protein Sequence:

>Peptide sequence encoded by RG238571
 Blue=ORF Red=Cloning site Green=Tag(s)

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MDNRQNVTPALIFAITVATIGSFQFGYNTGVINAPETIIKEFINKLTDKANAPPSEVLLTNLWLSVA
IFSVMGIGSFSVGLFVNRFGRNSMLIVNLLAATGGCLMGLCKIAESVEMLILGRLVIGLFCGLCTGF
VPMYIGEISPTALRGAFGLNQLGIVIGILVAQIFGLELILGSEELWPVLLGFTILPAILQSAALPCCP
ESPRFLLINRKEENATRILQRLWGTQDVSQDIQEMKDESARMSQEKQVTVLELFRVSSYRQPIIISIV
LQLSQQLSGINAVFYSTGIFKDGAVQQPIYATISAGVVNTIFTLNLSLFLVERAGRRTLHMIGLGGMAF
CSTLMTVSLLLKNHYNGMSFVCIGAILVVFACFEIGPGPIPFIVAELFSQGPRPAAMAVAGCSNWTSN
FLVGLLFPAAAYL GAYVFIIFTGFLITFLAFTFFKVPETRGRTFEDITRAFEGQAHGADRSGKDGVMG
MNSIEPAKETTTNV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
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```

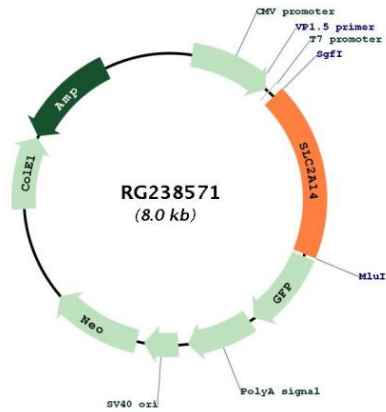
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


- ACCN:** NM_001286235
- ORF Size:** 1491 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_001286235.2](#)
- RefSeq Size:** 3912 bp
- RefSeq ORF:** 1494 bp
- Locus ID:** 144195
- UniProt ID:** [Q8TDB8](#)
- Cytogenetics:** 12p13.31
- Protein Families:** Transmembrane
- MW:** 54.5 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 RG238571