

## Product datasheet for **RC238571**

### **SLC2A14 (NM\_001286235) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SLC2A14 (NM_001286235) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC2A14
Synonyms:	GLUT14; SLC2A3P3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238571 representing NM\_001286235  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACAACAGACAGAATGTCACCCAGCTCTGATCTTTGCCATCACAGTTGCTACAATCGGCTCTTTCC  
 AGTTTGGCTACAACACTGGGGTCATCAATGCTCCTGAGACGATCATAAAGGAATTTATCAATAAACTTT  
 GACGGACAAGGCAAATGCCCTCCTCTGAGGTGCTGCTCACGAATCTCTGGTCCTGTCTGTGGCCATA  
 TTTTCCGTCGGGGTATGATCGGCTCCTTTCCGTCGGACTCTTTGTTAACCGCTTTGGCAGGCGCAATT  
 CAATGCTGATTGTCAACCTGTTGGCTGCCACTGGTGGCTGCCTTATGGGACTGTGAAAAAGCTGAGTC  
 AGTTGAAATGCTGATCCTGGGCCGCTTGGTTATTGGCCTCTTCTGCGGACTCTGCACAGGTTTTGTGCC  
 ATGTACATTGGAGAGATCTGCCTACTGCCCTGAGGGTGCCTTTGGCACTCTCAACCAGCTGGGCATAG  
 TTATTGGAATCTGGTGGCCAGATCTTTGGTCTGGAACCTATCCTTGGGTCTGAAGAGCTATGGCCGT  
 GCTATTAGGCTTTACCATCCTTCCAGCTATCCTGCAAAGTGCAGCCCTCCATGTTGCCCTGAAAGTCCC  
 AGATTTTTGCTCATTAAACAGAAAAAAGAGGAGAATGCTACGCGGATCCTCCAGCGGTTGTGGGGCACCC  
 AGGATGTATCCCAAGACATCCAGGAGATGAAAGATGAGAGTGCAAGGATGTCACAAGAAAAGCAAGTCAC  
 CGTGCTGGAGCTCTTAGAGTGTCCAGCTACCGACAGCCCATCATTTCCATTGTGCTCCAGCTCTCT  
 CAGCAGCTCTCTGGGATCAATGCTGTGTCTATTACTCAACAGGAATCTCAAGGATGCAGGTGTCAAC  
 AGCCCATCTATGCCACCATCAGCGCGGGTGTGGTTAATACTATCTTCACTTTACTTTCTCTATTTCTGGT  
 GAAAGGGCAGGAAGAAGGACTTGCATATGATAGGCCTTGGAGGGATGGCTTTTTGTCCACGCTCATG  
 ACTGTTTCTTTGTTATTAAGAATCACTATAATGGGATGAGCTTTGTCTGATTGGGGCTATCTTGGTCT  
 TTGTGGCTGTTTTGAAATTGGACCAGGCCCATCCCTGGTTTATTGTGGCCGAACCTTCAGCCAGGG  
 CCCCCCGCCAGCTGCGATGGCAGTGGCCGGCTGCTCCAACCTGGACCTCCAACCTCCTAGTCGGATTGCTC  
 TCCCCCTGCTGCTTACTATTTAGGAGCTACGTTTTTATTATCTTACCAGGCTTCTCATTACCTTCT  
 TGGCCTTACCTTCTTCAAAGTCCCTGAGACCCGTGGCAGGACTTTTGGAGATATCACACGGCCTTTGA  
 AGGGCAGGCACACGGTGCAGATAGATCTGGGAAGGACGGCTCATGGGATGAACAGCATCGAGCTGCT  
 AAGGAGACCACCACCAATGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238571 representing NM\_001286235  
 Red=Cloning site Green=Tags(s)

MDNRQNVTPALIFAITVATIGSFQFGYNTGVINAPETIIKEFINKLTDKANAPPSEVLLTNLWLSVAI  
 FSVGGMIGSFSVGLFVNRFRGRNSMLIVNLLAATGGCLMGLCKIAESVEMILGRLVIGLFCGLCTGFVP  
 MYIGEISPTALRGAFGLNQLGIVIGILVAQIFGLELILGSEELWPVLLGFTILPAILQSAALPCCPESP  
 RFLLINRKKEENATRILQRLWGTQDVSQDIQEMKDESARMSQEKQVTVLELFRVSSYRQPIIISIVLQLS  
 QQLSGINAVFYSTGIFKDAGVQPIYATISAGVVNTIFTLLELFLVERAGRRTLHMIIGGMAFCSTLM  
 TVSLLLKNHYNGMSFVCIGAILVVFACFEIGPGIPWFIVAELFSQGPRPAAMAVAGCSNWTSNFLVGLL  
 FPSAAYYL GAYVFIIFTGFLITFLAFTFFKVPETRGRTFEDITRAFEGQAHGADRSGKDGVMGMNSIEPA  
 KETTTNV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

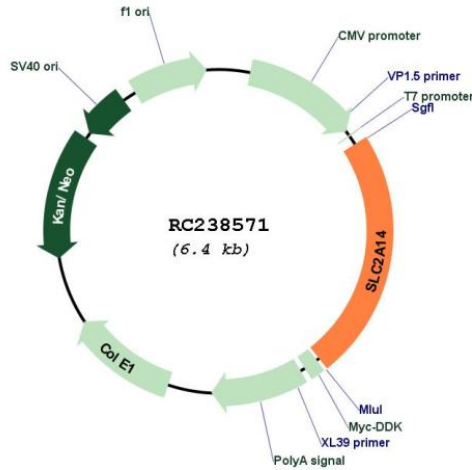
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



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).

**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\\_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]