

Product datasheet for **RC238774**

SLC2A14 (NM_001286237) Human Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RC238774 representing NM_001286237
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAAAGACTCCAAGTGTGAGAGTAGAAGTACTGCTGGGTGTGAAACAAGGAGATGAAATGCGGCATT
 TCTTTTTTCTTCTCAGACCTCCACTCTGGAGAAGAGTCAGAATGGGGGGTTCGGGGAGGAGTACCCCC
 AGCTCTGATCTTTGCCATCACAGTTGCTACAATCGGCTCTTCCAGTTTGCTACAACACTGGGGTCATC
 AATGCTCCTGAGACGATCATAAAGGAATTTATCAATAAACTTTGACGGACAAGGCAATGCCCTCCCT
 CTGAGGTGCTGCTCACGAATCTCTGGTCTGTCTGTGGCCATATTTCCGTTCGGGGTATGATCGGCTC
 CTTTTCCGTTCGGACTCTTTGTTAACCGCTTTGGCAGGCGCAATTCATGCTGATTGTCAACCTGTTGGCT
 GCCACTGGTGGCTGCCTTATGGGACTGTGTAAGTGTGAGTCAAGTGAATGCTGATCCTGGGCCGCT
 TGGTTATTGGCCTCTTCTGCGGACTCTGCACAGGTTTTGTGCCATGTACATTGGAGAGATCTCGCTAC
 TGCCCTGAGGGTGCCTTTGGCACTCTCAACCAGCTGGGCATAGTTATTGGAATTCGGTGGCCAGATC
 TTTGGTCTGGAACATCCTTGGGTCTGAAGAGCTATGGCCGGTCTATTAGGCTTTACCATCCTCCAG
 CTATCCTGCAAAGTGCAGCCCTCCATGTTGCCCTGAAAGTCCCAGATTTTTGCTCATTAAACAGAAAAA
 AGAGGAGAATGCTACGCGGATCCTCCAGCGTTGTGGGCACCCAGGATGTATCCAAGACATCCAGGAG
 ATGAAAGATGAGAGTGAAGGATGTCAAGAAAAAGCAAGTACCCTGCTGGAGCTCTTATAGAGTGTCCA
 GCTACCGACAGCCCATCATCATTCCATTGTGCTCCAGCTCTCTCAGCAGCTCTCTGGGATCAATGCTGT
 GTTCTATTACTCAACAGGAATCTTCAAGGATGCAGGTGTTCAACAGCCCATCTATGCCACCATCAGCGCG
 GGTGTGGTTAATACTATCTTCACTTTACTTTCTCTATTCTGGTGGAAAGGCAGGAAGAAGGACTCTGC
 ATATGATAGGCCCTGGAGGGATGGCTTTTTGTTCCACGCTCATGACTGTTCTTTGTTATTAAGAATGC
 CTATAATGGGATGAGCTTTGCTGTATTGGGGCTATCTGGTCTTTGTGGCCTGTTTTGAAATTGGACCA
 GGCCCATTCCTGGTTTATTGTGGCCGAATCTTCCAGCCAGGGCCCGCCAGCTGCGATGGCAGTGG
 CCGGCTGCTCCAAGTGGACCTCCAATCCTAGTCCGATTGCTCTCCCTCTGCTGCTTACTATTTAGG
 AGCCTACGTTTTTATTATCTTCCAGGCTTCTCATTACCTTCTTGGCCTTACCTTCTTCAAAGTCCCT
 GAGACCGTGGCAGGACTTTTGGAGATATCACACGGGCTTTGAAGGGCAGGCACACGGTGCAGATAGAT
 CTGGGAAGGACGGCGTCATGGGGATGAACAGCATCGAGCTGCTAAGGAGACCACCAATGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238774 representing NM_001286237
 Red=Cloning site Green=Tags(s)

MQRLQLLRVEVLLGVKQGDENRHHFFSSQTSTLEKSQNGGVGEEVTPALIFAITVATIGSFQFGYNTGVI
 NAPETIIKEFINKLTDKANAPPSEVLLTNLWSLSVAIFSVGGMIGSFSVGLFVNRFGRNSMLIVNLLA
 ATGGCLMGLCKIAESVEMLILGRLVIGLFCGLCTGFVPMYIGEISPTALRGAFGLNQLGIVIGILVAQI
 FGLELILGSEELWPVLLGFILPAILQSAALPCCPEPRFLLINRKKEENATRILQRLWGTQDVSDIQE
 MKDESARMSQEKQVTVLELFRVSSYRQPIIISIVLQLSQQLSGINAVFYSTGIFKDAGVQQPIYATISA
 GVVNTIFTLLSLFLVERAGRRTLHMIIGLGMFCSTLMTVSLLLKNHNGMSFVCIGAILVVFACFEIGP
 GPWPWFIVAELEFSQGRPAAMAVAGCSNWTNLFVGLLFPAAAYLGYVFIIFTGFLITFLAFTFFKVP
 ETRGRTEFEDITRAFEGQAHGADRSGKDGVMGMNSIEPAKETTTNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

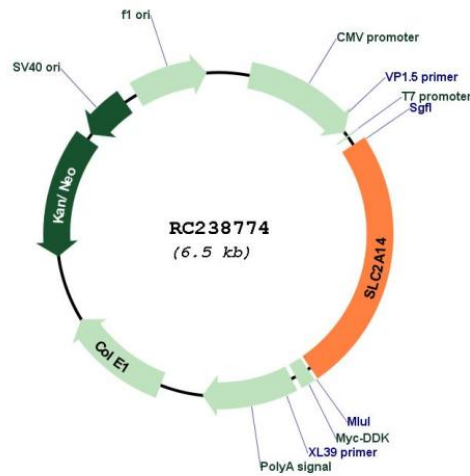
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_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).
Reconstitution Method:	<ol style="list-style-type: none">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_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]