

Product datasheet for **RC238570**

SLC2A14 (NM_001286234) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC2A14 (NM_001286234) 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:

>RC238570 representing NM_001286234
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAACAGACAGAATGTCACCCAGCTCTGATCTTTGCCATCACAGTTGCTACAATCGGCTCTTTCC
 AGTTTGGCTACAACACTGGGGTCATCAATGCTCCTGAGACGATCATAAAGGAATTTATCAATAAACTTT
 GACGGACAAGGCAAATGCCCTCCTCTGAGGTCTGCTCACGAATCTCTGGTCCTGTCTGTGGCCATA
 TTTCCGTGCGGGGTATGATCGGCTCCTTTCCGTGCGACTCTTTGTTAACCGCTTTGGCAGGCGCAATT
 CAATGCTGATTGTCAACCTGTTGGCTGCCACTGGTGGCTGCCTTATGGGACTGTGAAAAAGCTGAGTC
 AGTTGAAATGCTGATCCTGGGCCGCTTGGTTATTGGCCTCTTCTGCGGACTCTGCACAGGTTTTGTGCC
 ATGTACATTGGAGAGATCTGCCTACTGCCCTGAGGGTGCCTTTGGCACTCTCAACCAGCTGGGCATAG
 TTATTGGAATCTGGTGGCCAGATCTTTGGTCTGGAACCTATCCTTGGGTCTGAAGAGCTATGGCCGT
 GCTATTAGGCTTTACCATCCTTCCAGCTATCCTGCAAAGTGCAGCCCTTCCATGTTGCCCTGAAAGTCCC
 AGATTTTTGCTCATTAAACAGAAAAAAGAGGAGAATGCTACGCGGATCCTCCAGCGGTTGTGGGGCACCC
 AGGATGTATCCCAAGACATCCAGGAGATGAAAGATGAGAGTGCAAGGATGTCACAAGAAAAGCAAGTCAC
 CGTGCTGGAGCTCTTAGAGTGTCCAGCTACCGACAGCCCATCATATTTCCATTGTGCTCCAGCTCTCT
 CAGCAGCTCTCTGGGATCAATGCTGTGTCTATTACTCAACAGGAATCTCAAGGATGCAGGTGTCAAC
 AGCCCATCTATGCCACCATCAGCGCGGGTGTGGTTAATACTATCTTCACTTTACTTTCTCTATTTCTGGT
 GAAAGGGCAGGAAGAAGGACTTGCATATGATAGGCCTTGGAGGGATGGCTTTTTGTTCCACGCTCATG
 ACTGTTTCTTTGTTATTAAGAATCACTATAATGGGATGAGCTTTGTCTGATTGGGGCTATCTTGGTCT
 TTGTGGCTGTTTTGAAATTGGACCAGGCCCATCCCTGGTTTATTGTGGCCGAACCTCTCAGCCAGGG
 CCCCCCGCCAGCTGCGATGGCAGTGGCCGGCTGCTCCAACCTGGACCTCCAACCTCCTAGTCGGATTGCTC
 TCCCCCTGCTGCTTACTATTTAGGAGCTACGTTTTTATTATCTTACCAGGCTTCTCATTACCTTCT
 TGGCCTTACCTTCTTCAAAGTCCCTGAGACCCGTGGCAGGACTTTTGGAGATATCACACGGCCTTTGA
 AGGGCAGGCACACGGTGCAGATAGATCTGGGAAGGACGGCTCATGGGGATGAACAGCATCGAGCTGCT
 AAGGAGACCACCACCAATGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238570 representing NM_001286234
 Red=Cloning site Green=Tags(s)

MDNRQNVTPALIFAITVATIGSFQFGYNTGVINAPETIIKEFINKLTDKANAPPSEVLLTNLWLSVAI
 FSVGGMIGSFSVGLFVNRFRGRNSMLIVNLLAATGGCLMGLCKIAESVEMILGRLVIGLFCGLCTGFVP
 MYIGEISPTALRGAFGLNQLGIVIGILVAQIFGLELILGSEELWPVLLGFTILPAILQSAALPCCPESP
 RFLLINRKKEENATRILQRLWGTQDVSQDIQEMKDESARMSQEKQVTVLELFRVSSYRQPIIISIVLQLS
 QQLSGINAVFYSTGIFKDAGVQPIYATISAGVVNTIFTLNLSLFLVERAGRRTLHMIIGGMAFCSTLM
 TVSLLLNHNHNGMSFVCIGAILVVFACFEIGPGIPWFIVAELFSQGPRPAAMAVAGCSNWTSNFLVGLL
 FPSAAYYLGAAYVFIIFTGFLITFLAFTFFKVPETRGRTFEDITRAFEGQAHGADRSGKDGVMGMNSIEPA
 KETTTNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

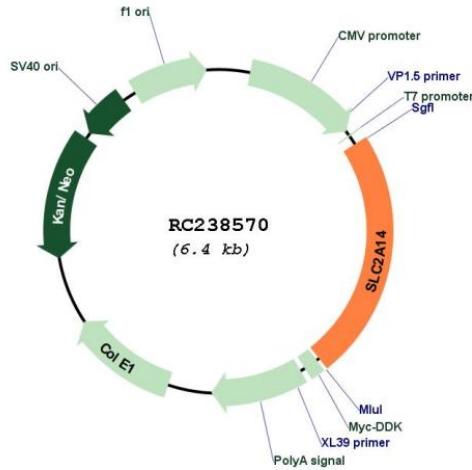
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001286234

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:	<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:	<u>NM_001286234.2</u>
RefSeq Size:	3614 bp
RefSeq ORF:	1494 bp
Locus ID:	144195
UniProt ID:	<u>Q8TDB8</u>
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]