

Product datasheet for **RC204317**

GLUT8 (SLC2A8) (NM_014580) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLUT8 (SLC2A8) (NM_014580) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GLUT8
Synonyms:	GLUT8; GLUTX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204317 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGACGCCCGAGGACCCAGAGGAAACCCAGCCGCTTCTGGGGCCTCCTGGCGGCAGCGCGCCCCGCGGCC
 GCCGCGCTTCTCGCCGCTTCGCCGCTGCCCTGGGCCCACTCAGCTTCGGCTTCGCGCTCGGCTACAG
 CTCCCCGGCCATCCCTAGCCTGCAGCGCGCCGCCCGCCCGCGCCTGGACGACGCGCGCGCTCC
 TGGTTCGGGGCTGTCGTGACCTGGGTGCCGCGCGGGGAGTGCTGGCGGCTGGCTGGTGACCGCG
 CCGGGCGCAAGCTGAGCCTCTTGCTGTGCTCCGTGCCCTTCGTGGCCGGCTTTCGGCTATCACCGCGG
 CCAGGACGTGTGGATGCTGCTGGGGGGCGCCTCCTACCGGCCTGGCCTGCGGTGTTGCCTCCCTAGTG
 GCCCGGCTACATCTCCGAAATCGCTACCCAGCAGTCCGGGGGTTGCTCGGCTCCTGTGTGCAGCTAA
 TGGTCGTGTCGGCATCCTCCTGGCCTACCTGGCAGGCTGGGTGCTGGAGTGGCGCTGGCTGGCTGTGCT
 GGGCTGCGTGCCCCCTCCCTCATGCTGCTTCTCATGTGCTTCATGCCGAGACCCGCGCTTCTGCTG
 ACTCAGCACAGGCGCCAGGAGGCCATGGCGCCCTGCGGTTCTGTGGGGCTCCGAGCAGGCTGGGAAG
 ACCCCCCCATCGGGGCTGAGCAGAGCTTTCACCTGGCCCTGCTGCGGCAGCCCGGCATCTACAAGCCCTT
 CATCATCGGCGTCTCCCTGATGGCTTCCAGCAGCTGTCGGGGGTCAACGCCGTATGTTCTATGCAGAG
 ACCATCTTTGAAGAGGCCAAGTTCAAGGACAGCAGCCTGGCCTCGGTGCTGCTGGGTGTCATCCAGGTGC
 TGTTACAGCTGTGGCGGCTCTCATCATGGACAGAGCAGGGCGGAGGCTGCTCCTGGTCTTGTGAGGTG
 GGTGATGGTGTTCAGCAGAGTGCCTTCGGCGCCTACTTCAAGCTGACCCAGGCTGGCCCTGGCAACTCC
 TCGCAGTGGCCATCTCGGCGCCTGTCTCTGCACAGCCTGTTGATGCCAGCGTGGGGCTGGCCTGGCTGG
 CCGTGGGCAGCATGTGCCTCTTCATCGCCGGCTTTGCGGTGGGCTGGGGGCCATCCCCTGGCTCCTCAT
 GTCAGAGATCTTCCCTCTGCATGTCAAGGCGTGGCGACAGGCATCTGCGTCCTACCAACTGGCTCATG
 GCCTTTCTCGTGACCAAGGAGTTCAGCAGCCTCATGGAGTCTCAGGCCCTATGGAGCCTTCTGGCTTG
 CCTCCGCTTTCTGCATCTTCAGTGTCTTTTCACTTTGTTCTGTGTCCTGAAACTAAAGGAAAGACTCT
 GGAACAAATCACAGCCATTTTGAAGGGCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204317 protein sequence
 Red=Cloning site Green=Tags(s)

MTPEDPEETQPLLGPFGSAPRRRVFLAAFAAALGPLSFGFALGYSSPAIPSLQRAAPPAPRLDDAAAS
 WFGAVVTLGAAAGVLLGGWLVDRAGRKLSLLCSVPFVAGFAVITAAQDVWMLLGGRLLTGLACGVASLV
 APVYIIEIAYPAVRGLLGSCVQLMVVVGILLAYLAGWVLEWRWLAVLGCVPPLMLLLMCFMPETPRFLL
 TQHRREQEAMALRFLWGSEQGWEDPPIGAEQSFHLALLRQPGIYKPFIIIGVSLMAFQQLSGVNAVMFYAE
 TIFEEAKFKDSSLASVVVGVIQVLFATAAALIMDRAGRRLLLVLSGVVMVFSTSAFGAYFKLTQGGPGNS
 SHVAISAPVSAQPVDAVGLAWLAVGSMCLFIAGFAVGWGPWPWLLMSEIFPLHVKGATGICVLTNWLM
 AFLVTKEFSSLMVLRPYGAFWLASAFCIFSVLFTLCVPETKGKTLEQITAHFEGR

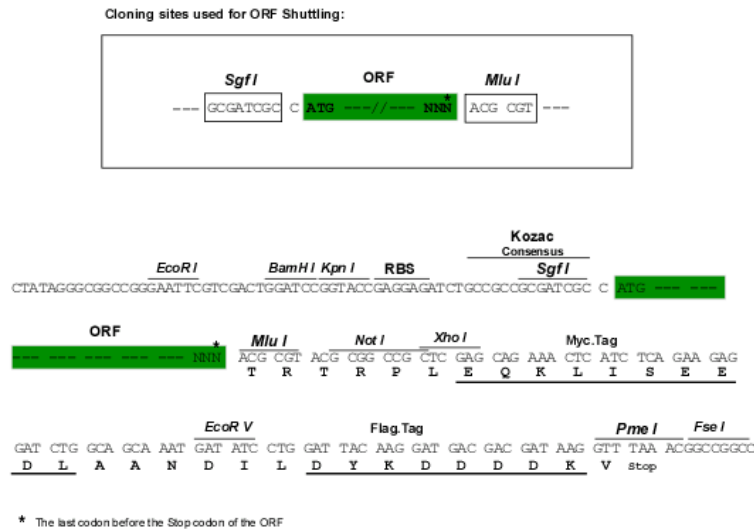
TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6217_c09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_014580

ORF Size: 1431 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014580.5](#)

RefSeq Size: 2176 bp

RefSeq ORF: 1434 bp

Locus ID: 29988

UniProt ID: [Q9NY64](#)

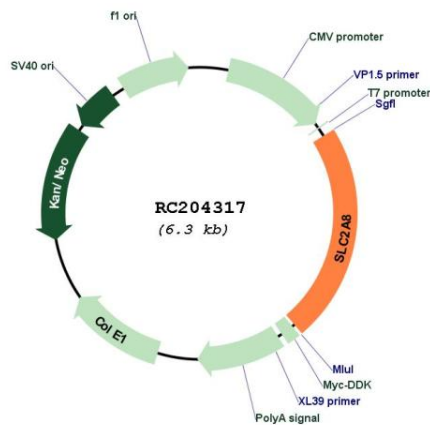
Cytogenetics: 9q33.3

Protein Families: Transmembrane

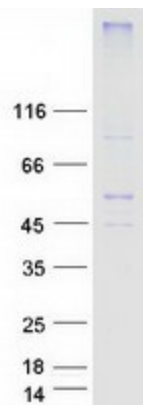
MW: 50.8 kDa

Gene Summary: This gene belongs to the solute carrier 2A family, which includes intracellular glucose transporters. Based on sequence comparison, the glucose transporters are grouped into three classes and this gene is a member of class II. The encoded protein, like other members of the family, contains several conserved residues and motifs and 12 transmembrane domains with both amino and carboxyl ends being on the cytosolic side of the membrane. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RC204317



Coomassie blue staining of purified SLC2A8 protein (Cat# [TP304317]). The protein was produced from HEK293T cells transfected with SLC2A8 cDNA clone (Cat# RC204317) using MegaTran 2.0 (Cat# [TT210002]).