

## Product datasheet for RC234020

### GLUT8 (SLC2A8) (NM\_001271711) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GLUT8 (SLC2A8) (NM\_001271711) 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)  
**ORF Nucleotide Sequence:** >RC234020 representing NM\_001271711  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACGCCCGAGGACCCAGAGGAAACCCAGCCGCTTCTGGGGCCTCTGGCGGCAGCGGCCCGCGGCC  
 GCCCGCTTCTCGCCGCTTCGCCGCTGCCCTGGGCCACTCAGTTCGGCTTCGCGCTCGGCTACAG  
 CTCGCCGCCATCCCTAGCCTGCAGCGCGCCGCCCGCCCGCCCGCCGCTGGACGACGCCCGCCCTCC  
 TGGTTCGGGGCTGTCGTGACCCGGGTGCCGCGCGGGGGAGTGTGGCGGCTGGCTGGTGGACCGGC  
 CCGGGCGCAAGCTGAGCCTTGTGTGTCTCCGTGCCCTTCGTGGCCGGCTTTGCCGTATCACCAGCGGC  
 CCAGGAGTGTGGATGCTGCTGGGGGGCCCTCCTCACCAGCCTGGCCTGCGGTGTGCCCTCCCTAGTG  
 GCCCGGTCTACATCTCCGAAATCGCCTACCCAGCAGTCCGGGGTGTGCTCGGCTCCTGTGTGACGTAA  
 TGGTCTGTCGTCGGCATCCTCCTGGCCTACCTGGCAGGCTGGGTGCTGGAGTGGCGTGGCTGGCTGTGCT  
 GGGCTGCGTGCCCCCTCCCTCATGCTGCTTCTCATGTGCTTTCATGCCCGAGACCCCGCGCTTCTGCTG  
 ACTCAGCACAGGCGCCAGGAGGCCATGGCCGCCCTGCGGTTCTGTGGGGCTCCGAGCAGGGCTGGGAAG  
 ACCCCCCATCGGGGCTGAGCAGAGCTTACCTGGCCCTGCTGCGGCAGCCCGGCATCTACAAGCCCTT  
 CATCATCGGCGTCTCCCTGATGGCCTCCAGCAGCTGTGGGGGTCAACGCCGTATGTTCTATGCAGAG  
 ACCATCTTTGAAGAGGCCAAGTTCAAGGACAGCAGCCTGGCCTCGGTCGTGGTGTGTCATCCAGGTG  
 TGTTACAGCTGTGGCGGCTCTCATCATGGACAGAGCAGGGCGGAGGCTGCTCCTGGTCTTGTGAGGTG  
 GGTGATGGTGTTCAGCACGAGTGCCTTCGGCGCCTACTTCAAGCTGACCCAGGGTGGCCCTGGCACTCC  
 TCGCACGTGGCCATCTCGGCGCCTGTCTCTGCACAGCCTGTTGATGCCAGCGTGGGGCTGGCCTGGCTGG  
 CCGTGGGCGCATGTGCCCTTTCATCGCCGGAGGTCCTCAGGCCATGGAGCCTTCTGGCTTGCCTCCG  
 CTTTCTGCATCTTCAGTGTCTTTTCACTTTGTTCTGTGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC234020 representing NM\_001271711  
 Red=Cloning site Green=Tags(s)

MTPEDPEETQPLLGPPGGSAPRRRVFLAAFAAALGPLSFGFALGYSSPAIPSLQRAAPPAPRLDDAAAS  
 WFGAVVTLGAAAGGVLGGWLVDRAGRKLSLLCSVPFVAGFAVITAAQDVWMLLGGRLLTGLACGVASLV  
 APVYISEIAYPAVRGLLGSCVQLMVVVGILLAYLAGWVLEWRWLAVLGCVPPSLMLLLMCFMPETPRFLL  
 TQHRRQEAMAALRFLWGSEQGWEDPPIGAEQSFHLALLRQPGIYKPFIIIGVSLMAFQQLSGVNAVMFYAE  
 TIFEEAKFKDSSLASVVVGVIVLFTAVAALIMDRAGRRLLLVLSGVVMVFSTSAFGAYFKLTQGGPGNS  
 SHVAISAPVSAQPVDSVGLAWLAVGSMCLFIAGGPQALWLLACLRLHLQCPHFHVLCP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001271711

**ORF Size:** 1233 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\\_001271711.1](#), [NP\\_001258640.1](#)

**RefSeq Size:** 2030 bp

**RefSeq ORF:** 1236 bp

**Locus ID:** 29988

**UniProt ID:** [Q9NY64](#)

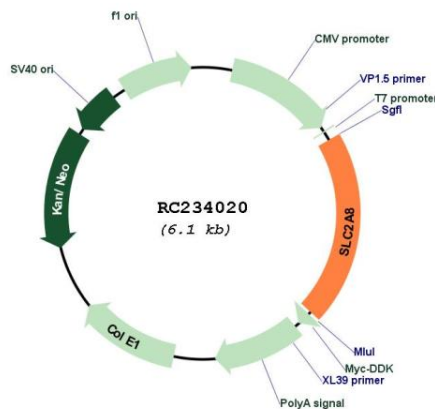
**Cytogenetics:** 9q33.3

**Protein Families:** Transmembrane

**MW:** 43.9 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 RC234020