

Product datasheet for **SC122818**

GLUT8 (SLC2A8) (NM_014580) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLUT8 (SLC2A8) (NM_014580) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLUT8
Synonyms:	GLUT8; GLUTX1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_014580 edited
GGCGGTTCAAGCGCCAGAGCTGGCCGATCGGCGTTGGCCGCCGACATGACGCCCGAGGAC
CCAGAGGAAACCCAGCCGCTTCTGGGGCTCCTGGCGGCAGCGCGCCCGCGGCCCGCG
GTCTTCTCGCCGCTTCGCCGCTGCCCTGGGCCACTCAGCTTCGGCTTCGGCTCGGC
TACAGTCCCCGGCCATCCCTAGCCTGCAGCGCGCCGCGCCCGGCCCGCGCCCTGGAC
GACGCCCGCCCTCCTGGTTCGGGGCTGCTGACCTGGGTGCCGCGCGGGGGGAGTG
CTGGGCGGCTGGCTGGTGACCGCGCGGCGCAAGCTGAGCCTTTGCTGTGCTCCGTG
CCCTTCGTGGCCGCTTTGCCGTATCACCGCGGCCAGGACGTGTGGATGCTGTGGGG
GGCCGCTCCTCACCGGCTGGCCTGCGGTGTTGCCTCCCTAGTGGCCCCGGTCTACATC
TCCGAAATCGCCTACCCAGCAGTCCGGGGTGTGCTCGGCTCCTGTGTGACGTAATGGT
GTCGTGGCATCCTCCTGGCTACCTGGCAGGCTGGGTGCTGGAGTGGCGCTGGCTGGCT
GTGCTGGGCTGCGTGCCCCCTCCCTCATGCTGCTTTCATGTGCTTCATGCCGAGACC
CCGCGTTCCTGTGACTCAGCACAGGCGCCAGGAGGCCATGGCCGCCCTGCGGTTCTG
TGGGGCTCCGAGCAGGGCTGGGAAGACCCCCCATCGGGGCTGAGCAGAGCTTTCACCTG
GCCCTGTGCGGCAGCCGGCATCTACAAGCCCTTCATCATCGGGGTCTCCCTGATGGCC
TTCCAGCAGCTGTGGGGTCAACGCCGTATGTTCTATGCAGAGACCATCTTTGAAGAG
GCCAAGTTC AAGGACAGCAGCCTGGCCTCGGTCGTGCGTGGGTGTATCCAGGTGCTGTT
ACAGCTGTGGCGCTCCTCATCATGGACAGAGCAGGGCGGAGGCTGCTCCTGGTCTTGTA
GGTGTGGTTCATGGTGTTCAGCACGAGTGCCTTCGGCGCCTACTTCAAGCTGACCCAGGGT
GGCCCTGGCAACTCCTCGCACGTGGCCATCTCGGCGCCTGTCTCTGCACAGCCTGTTGAT
GCCAGCGTGGGGCTGGCTGGCTGGCCGTGGGAGCATGTGCCTTTCATCGCCGCTTT
GCGGTGGGCTGGGGCCCATCCCTGGTCCCTCATGTGAGAGATTTCCCTCTGCATGTC
AAGGGCGTGGCGACAGGCATCTGCGTCCACCAACTGGCTCATGGCCTTCTCGTGACC
AAGGAGTTCAGCAGCCTCATGGAGTCCCTCAGGCCCTATGGAGCCTTCTGGCTTGCTCC
GCTTTCTGCATCTTCAGTGTCTTTTCACTTTGTTCTGTGTCCTGAAACTAAAGGAAAG
ACTCTGGAACAAATCACAGCCATTTTGGAGGGCGATGACAGCCACTACTAGGGGATGG
AGCAAGCCTGTGACTCCAAGCTGGGCCAAGCCAGAGCCCTGCCTGCCCCAGGGGAGC
CAGAATCCAGCCCTTGGAGCCTTGGTCTGCAGGGTCCCTCCTTCTGTGATGCTCCCTC
CAGCCCATGACCCGGGGCTAGGAGGCTCACTGCCTCCTGTTCCAGCTCCTGCTGCTGCT
TGAGGACTCAGGAACACCTTCGAGCTTTGCAGACCTGCGGTGAGCCCTCCATGCGCAAGA
CTAAAGCAGCGGAAGAGGAGGTGGCCCTTAGGATCTTTGTCTTCTGGCTGGAGGTGCTT
TTGGAGGTTGGGTGCTGGGCATTAGTCGCTCCTCTCACGCGGCTGCCTTATCGGGAAGG
AAATTTGTTTGC AAATAAAGACTGACACAGAAAATCAGGTGAGTGTCTCTGGGCTTTGT
GCAAGCTCAGTTTAAAAGGGTTTATTCCCATCACTGCCAGGACACCCTGTGGCTTTAC
TTGCTCATGGTACGCCAAGCTTACCCTTCACTGAGAAGTCAATTTCTGGCTACTTCCTT
GGGCTCAGTTCCTGGGTATCAGCCATCAAATCTTGTGAGTTAAAAAATAAACAGCA
AAAAAAAAACAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014580 unedited NNCCGTACGCATTTTGTAAACNCTCATATAGGCGGCGCGGATTCCGGCACGGGGGCGGTT CATGCGCCAGAGCTGGCCGATCGGCGTTGGCCGCCGACATGACGCCCGAGGACCCATAGG AAACCCAGCCGCTTCTGGGGCTCCTGGCGGCAGCGCGCCCCGCGCCCGCCGCTTTCC TCGCCGCTTCGCCGCTGCCCTGGGCCACTCAGCTTCGGCTTCGCGCTCGGCTACAGCT CCCCAGCCATCCCTAGCCTGCAGCGCGCCGCGCCCCGCGCCCGCGCTTGACGACGCCG CCGCCTCCTGGTTCGGGGCTGTCTGACCCTGGGTGCCGCGCGGGGGAGTGCTGGGCG GCTGGTGGTGGACCGCGCCGGGCGCAAGCTGAGCCTCTTGCTGTGCTCGTGCCCTTCG TGGCCGGCTTTGCCGTATCACCGCGGCCATGACGTGTGGATGCTGCTGGGGGGCCGCC TCCTACCGGCCCTGGCTGCGGTGTTGCCTCCCTAGTGGCCCCGGTCTACATCTCCGAAA TCGCTACCCATATTCCGGGGTTGCTCGGCTCCTGTGTGCAGTAATGGTCGTCGTCG GCATCCTCCTGGCTACCTGGCANGCTGGGTGCTGGAGTGGCGCTGGCTGGCTGTGCTGG GCTGCGTGCCCCCTCCCTCATGCTGCTTCTCATGTGCTTCATGCCCGAGACCGCGCT TGCTGCTGACTCATCACATGCGCCAGGAAGCCATGGGCCGCCCTGGCGGTTCTGTGGGGC TCCACCAGGGCTGGGAAAACCCCCCATCGGGGGCTGAGACAAAGCTTCAACCTGGC GCCTGGTTGCGGGAGCCCGGCATCTACAAGCCCTTCTGATTGGCGGTTCCCTGAAGG CCTTCC
Restriction Sites:	Please inquire
ACCN:	NM_014580
Insert Size:	2100 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_014580.3 , NP_055395.2
RefSeq Size:	2145 bp
RefSeq ORF:	1434 bp
Locus ID:	29988
UniProt ID:	Q9NY64
Cytogenetics:	9q33.3
Protein Families:	Transmembrane

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform 1.