

Product datasheet for **SC116011**

Glucose Transporter GLUT1 (SLC2A1) (NM_006516) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glucose Transporter GLUT1 (SLC2A1) (NM_006516) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glucose Transporter GLUT1
Synonyms:	CSE; DYT9; DYT17; DYT18; EIG12; GLUT; GLUT-1; GLUT1; GLUT1DS; HTLVR; PED; SDCHCN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116011 sequence for NM_006516 edited (data generated by NextGen Sequencing)

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ATGGAGCCAGCAGCAAGAAGCTGACGGGTCGCCTCATGCTGGCCGTGGGAGGAGCAGTG
CTTGGCTCCCTGCAGTTTGGCTACAACACTGGAGTCATCAATGCCCCAGAAAGGTGATC
GAGGAGTTCTACAACCAGACATGGGTCCACCGCTATGGGGAGAGCATCCTGCCACCACG
CTCACCACGCTCTGGTCCCTCTCAGTGGCCATCTTTCTGTTGGGGCATGATTGGCTCC
TTCTCTGTGGCCCTTTTCGTTAACCCTTTGGCCGGCGAATTCAATGCTGATGATGAAC
CTGCTGGCCTTCGTGTCGCGCTGCTCATGGGCTTCTCGAAACTGGGCAAGTCCTTTGAG
ATGCTGATCCTGGGCCGCTTCATCATCGGTGTGTACTGCGGCCTGACCACAGGCTTCGTG
CCCATGTATGTGGGTGAAGTGTACCCACAGCCCTTCGTGGGGCCCTGGGCACCTGCAC
CAGCTGGGCATCGTCGTGGCATCCTCATCGCCAGGTGTTGGCCTGGACTCCATCATG
GGCAACAAGGACCTGTGGCCCTGCTGCTGAGCATCATCTTCATCCCGCCCTGCTGCAG
TGCATCGTGTGCCCTTCGCCCGAGAGTCCCGCTTCCTGCTCATCAACCGCAACGAG
GAGAACCAGGCAAGAGTGTGCTAAAGAAGCTGCGCGGACAGCTGACGTGACCCATGAC
CTGCAGGAGATGAAGGAAGAGAGTGGCAGATGATGCGGGAGAAGAAGGTACCATCCTG
GAGCTGTTCCGCTCCCGCCTACCGCCAGCCATCCTCATCGCTGTGGTGTGCTGAGCTG
TCCCAGCAGCTGTCTGGCATCAACGCTGTCTTCTATTACTCCACGAGCATCTTCGAGAAG
GCGGGGTGCAGCAGCCTGTGTATGCCACCATTGGCTCCGGTATCGTCAACACGGCCTTC
ACTGTCGTGTGCTGTTTGTGGTGGAGCGAGCAGGCCGGCGGACCTGCACCTCATAGGC
CTCGCTGGCATGGCGGTTGTGCCATACTATGACCATCGCGTAGCACTGCTGGAGCAG
CTACCCTGGATGTCCTATCTGAGCATCGTGGCCATCTTTGGCTTGTGGCCTTCTTTGAA
TGGGTCTCGCCCATCCCATGGTTCATCGTGGCTGAACTCTCAGCCAGGGTCCACGT
CCAGTCCATTGCCGTTGCAGGCTTCTCAACTGGACCTCAAATTTTCATTGTGGCATG
TGCTTCCAGTATGTGGAGCAACTGTGTGTCCTACGTCTTCATCATCTTCACTGTGCTC
CTGTTTCTGTTCTTCATCTTACCTACTTCAAAGTTCCTGAGACTAAAGCGCGACCTTC
GATGAGATCGCTTCCGGCTTCCGGCAGGGGGAGCCAGCCAAAGTGACAAGACACCCGAG
GAGCTGTTCCATCCCCTGGGGGCTGATTCCCAAGTGTGA
    
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Clone variation with respect to NM_006516.2

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_006516 unedited
TACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCAACAGCGAGCGTGCCGGTCCG
CTAGTCGCGGGTCCCGAGTGAGCACGCCAGGGAGCAGGAGACCAACGACGGGGTTCGG
AGTCAGAGTGCAGTGGGAGTCCCGGACCGGAGCAGGAGCCTGAGCGGGAGAGCGCCGC
TCGCACGCCCGTGCACCCCGCTACCCGGCGCAGCCAGAGCCACCAGCGCAGCGCTGCC
ATGGAGCCAGCAGCAAGAAGCTGACGGGTCGCCTCATGCTGGCCGTGGGAGGAGCAGTG
CTTGGCTCCCTGCAGTTTGGCTACAACACTGGAGTCATCAATGCCCCAGAAAGGTGATC
GAGGAGTTCTACAACCAGACATGGGTCCACCGCTATGGGGAGAGCATCCTGCCACCACG
CTCACCACGCTCTGGTCCCTCTCAGTGGCCATCTTTCTGTTGGGGCATGATTGGCTCC
TTCTCTGTGGCCCTTTTCGTTAACCCTTTGGCCGGCGAATTCAATGCTGATGATGAAC
CTGCTGGCCTTCGTGCCCGTCTCATGGGCTTCTCGAAACTGGGCAAGTCCTTTGAG
ATGCTGATCCTGGGCCGCTTCATCATCGGTGTGTACTGCGGCCTGACCACAGGCTTCGTG
CCCATGTATGTGGGTGAAGTGTACCCACAGCCCTTCGTGGGGCCCTGAGCACCCTGCAC
CAGCTGGGCATCGTCGTGGCATTCTCATCGCCAGTGTTCGGCCTGGACTNCATCATG
GGCACAGGNACCTGTGCCCTGCTGCTGAGCATCATCTTCATCCCGGCTGCTGCAG
TGCTTCGTGCTGCTTTCTGCCCGANAGTCCCGCTTCTGCTCATCACCGCAGGAGGA
GACCGGGCCAGTATGTGCTNAAGAGCTGCGCGNAAAGCTGACGTGACCCATGACTGCAG
NAATGAAGG
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006516 unedited GCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTACTATAACTTAGTGTCTGTA TTTAATATTGACAACCAAAAATATATATAAATATCTTGCACTATACACAACAGGGCAGG AGTCTCCATGTCTTCTTGAGCAGTGAGTTGCAGGCTCCACAGGCCCTTCTCATGGT AATAGTGTGGCCCTCAGTGCAAAGGAGACTAGAACCCGGCAGCCAGACTGGCCCTCCC CTCTCCTCCCTGCACTCCAGTGCTCCCACTGGTCTCAGGTAAGAAAGATTAATTTGAG TGGTTGGGTAGGAAGAGATGGGAAGGGGCAAATCCTAATGGAGCCTGACCCCTAGAGTGG GGAGATCCAGGCCAGCAGAACGGGTGGCCATAGCCACCTCCTGGGATAGAAGCTTTGTAG TTCATAGTTTCGATTAGTGTGTCCTTAGGACATAGGTCCAGCCCTACAGATTAGCTGGGTG AAGAAGGCAAGTGTCTCGACAGGGCTTAGTCTCCACCCTCAGGCATGGAACCATTANGG TGAAGCCTGNGATGTGGGCACAGGAGACTCAGGCTGATATAAAAATAACAAAATCAGTAAT AAAAAATTATAAACCTGTTGCTTGTCTGAATAGATTTGAGCAACAGTCTTGCTTTTGN TAAATCTGGAGCCGTTAAGCTCTGAATATTCCTCTGACATCATTGCTGGCTGGAGAA AGAACNCCAGCCGCTCGGCTGACTTCTGTGAGTTTGGAAATCTCATCCACTGCCCTG GCTCCTGAAAGATCCTTAGGCTTCTGGGACCAGCCGGCTTGTGATCTGGGGCCACTCAC CTTGAAAATACCCCCAGGGAATGAACAGTTCTCGGTGCTTGCATTTTGGCTGTGCC CCCGGCGAACC CGGAGCGATTCTTGAAGGGCCGCTTAAATTCAGAACTTCTGAAA GG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_006516
Insert Size:	2660 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_006516.1 , NP_006507.1

RefSeq Size:	2856 bp
RefSeq ORF:	1479 bp
Locus ID:	6513
UniProt ID:	P11166
Cytogenetics:	1p34.2
Domains:	sugar_tr
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Adipocytokine signaling pathway, Pathways in cancer, Renal cell carcinoma
Gene Summary:	This gene encodes a major glucose transporter in the mammalian blood-brain barrier. The encoded protein is found primarily in the cell membrane and on the cell surface, where it can also function as a receptor for human T-cell leukemia virus (HTLV) I and II. Mutations in this gene have been found in a family with paroxysmal exertion-induced dyskinesia. [provided by RefSeq, Apr 2013]