

Product datasheet for **SC125240**

GLUT4 (SLC2A4) (NM_001042) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLUT4 (SLC2A4) (NM_001042) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLUT4
Synonyms:	GLUT4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC125240 sequence for NM_001042 edited (data generated by NextGen Sequencing)

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ATGCCGTCGGGCTTCCAACAGATAGGCTCCGAAGATGGGGAACCCCTCAGCAGCGAGTG
ACTGGGACCCTGGTCCTTGCTGTGTTCTCTGCGGTGCTTGGCTCCCTGCAGTTTGGGTAC
AACATTGGGGTCATCAATGCCCCCAGAAGGTGATTGAACAGAGCTACAATGAGACGTGG
CTGGGGAGGCAGGGGCTGAGGGACCCAGCTCCATCCCTCCAGGCACCCCTCACCACCTC
TGGGCCCTCTCCGTGGCCATCTTTCCGTGGGGCGCATGATTTCTCTCTTCTCATTGGT
ATCATCTCTCAGTGGCTTGAAGGAAAAGGGCCATGCTGGTCAACAATGCCTGGCGGTG
CTGGGGGGCAGCCTCATGGCCCTGGCCAATGCTGCTGCCTCCTATGAAATGCTCATCCTT
GGACGATTCTCATTGGCGCCTACTCAGGGCTGACATCAGGGCTGGTGGCCATGTACGTG
GGGGAGATTGCTCCCACTCACCTGCGGGGCGCCCTGGGGACGCTCAACCAACTGGCCATT
GTTATCGGCATTCTGATCGCCAGGTGCTGGGCTTGGAGTCCCTCCTGGGCACTGCCAGC
CTGTGGCCACTGCTCCTGGGCTCACAGTGTACCTGCCCTCCTGCAGCTGGTCTGCTG
CCCTTCTGTCCCAGAGCCCCCTACCTCTACATCATCCAGAATCTCGAGGGGCTGCC
AGAAAGAGTCTGAAGCGCCTGACAGGCTGGGCCGATGTTTCTGGAGTGTGGCTGAGCTG
AAGGATGAGAAGCGGAAGCTGGAGCGTGAGCGGCACTGTCCCTGCTCCAGCTCCTGGGC
AGCCGTACCCACCGGCAGCCCTGATCATTGCGGTGCTGCTGCAGCTGAGCCAGCAGCTC
TCTGGCATCAATGCTGTTTTCTATTATTGACCAGCATCTTCGAGACAGCAGGGGTAGGC
CAGCCTGCCTATGCCACCATAGGAGCTGGTGTGGTCAACACAGTCTTACCTTGGTCTCG
GTGTTGTTGGTGGAGCGGGCGGGCGCCGACGCTCCATCTCCTGGGCTGGCGGGCATG
TGTGGCTGTGCCATCCTGATGACTGTGGCTCTGCTCCTGCTGGAGCGAGTCCAGCCATG
AGCTACGTCTCCATTGTGGCCATCTTTGGCTTCGTGGCATTTTTTGAGATTGGCCCTGGC
CCACTTCTGGTTCATCGTGGCCGAGCTTTCAGCCAGGGACCCCGCCGGCAGCCATG
GCTGTGGCTGGTTCTCCAAGTGGACGAGCAACTTCATCATTGGCATGGGTTTCCAGTAT
GTTGCGGAGGCTATGGGGCCCTACGTCTTCTTCTATTTGCGGTCTCCTGCTGGGCTTC
TTCATCTTACCTTCTTAAGAGTACCTGAAACTCGAGGCCGACGTTTGACCAGATCTCA
GCTGCCTTCCACCGGACACCCTCTTTTTAGAGCAGGAGGTGAAACCCAGCACAGAACTT
GAGATTTAGGGCCAGATGAGAACGACTGA
    
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Clone variation with respect to NM_001042.2

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_001042 unedited
GGGGAAGGAGNNNTTATGTCGATTTGTATACGAAGNNTTANGGCGGCCGGAATTCGGC
ACGAGACCAGATCCGCGGGAGCCCCACTGCTCTCCGGTCTTGGCTTGTGGCTGTGGGT
CCCATCGGGCCCGCCCTCGCACGTCACCTCCGGGACCCCGCGGCTCCGAGGTTCTGCG
CTCCAGGCCGGAGTCAGAGACTCCAGGATCGGTTCTTTTCATCTTCGCCGCCCTGCGCGT
CCAGCTTCTTAAGACGAGATGCCGTGGGCTTCCAACAGATAGGCTCCGAAGATGGGGA
ACCCCTCAGCAGCGAGTACTGGGACCCCTGGTCTTGCTGTGTTCTCTGCGGTGCTTGG
CTCCCTGCAGTTTGGGTACAACATTGGGGTCATCAATGCCCTCAGAAGGTGATTGAACA
GAGCTACAATGAGACGTGGCTGGGGAGGCAGGGCCCTGAGGGACCCAGCTCCATCCCTCC
AGGCACCCTCACCACCCTCTGGGCCCTCTCCGTGGCCATCTTTCCGTGGGCGGCATGAT
TTCCTCTTCTCATTGGTATCATCTCTCAGTGGCTTGAAGGAAAAGGGCCATGCTGGT
CAACAATGCTCTGCGGTGCTGGGGCAGCCTCATGGGCTGGCCATGCTGCTGCTAT
GAATGCTATCNTGACGATCTCATGCGCTATCGGCTGCTCAGCTGTCCATGTCTGGGAATG
TCATACTGCGGGCCTGGACTACACTGCTGTTGC
    
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3' Read Nucleotide Sequence:	>Forward primer walk for NM_001042 unedited TGGCATGGGTTTCAGTATGTTGCGGAGGCTATGGGGCCCTACGTCTTCTTCTATTTGCG GTCCTCTGCTGGGCTTCTTCATCTTACCTTCTTAAGAGTACCTGAAACTCGAGGCCGG ACGTTTGACCAGATCTCAGCTGCCTTCCACCGGACACCCTCTCTTTAGAGCAGGAGGTG AAACCCAGCACAGAACTTGAGTATTTAGGGCCAGATGAGAACGACTGAGGGGCCAGGCAG GGGTGGGAGAGCCAGCTCTCTACCCGGCCAGAGACCCCTTCCCTTTCTCTGCAGCAC TTTAACCCTCTTCCCTATTATTTCCGGGTGGAAAAGAATCCCTGCAGCCTGGTAGAAT TGGGAAGCTGGGGGAAGGGTGGTCTGAGCACCCCTCATTCCCCTCGTGTGACTCTTTG GATTATTTATGTGTTGTGGTTTGCCCGTGGCCATCAGGGTGGGCCACTCTCCCCTCCCTC TTCCTTCCCCATCCCCTTCTCCCCACCTTCCCCAGACTCAGCTCCAGAATACCTTCT TCGCTGTAGAGAAGGGGATTGGAGGGAAGACAGGTCTAGACTTCTCAGTGGGACAAA CCAGAGCAGAGAGCAGGACAGGAGACAAGAAATCCAGTTTCCCACCACCTTGGACTCCTC CCACAATCTGGGACTTCTACTGAATTCTTGCCACGCAGACTCTGGGCAAAGGGGTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGTCTCGCTCTGTCGCCAGGCTCGAGTGCAG TGCGGTGATCTTG
Restriction Sites:	Please inquire
ACCN:	NM_001042
Insert Size:	3000 bp
OTI Disclaimer:	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.
	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
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_001042.1 , NP_001033.1
RefSeq Size:	2128 bp
RefSeq ORF:	1530 bp

Locus ID:	6517
UniProt ID:	P14672
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Adipocytokine signaling pathway, Insulin signaling pathway, Type II diabetes mellitus
Gene Summary:	<p>This gene is a member of the solute carrier family 2 (facilitated glucose transporter) family and encodes a protein that functions as an insulin-regulated facilitative glucose transporter. In the absence of insulin, this integral membrane protein is sequestered within the cells of muscle and adipose tissue. Within minutes of insulin stimulation, the protein moves to the cell surface and begins to transport glucose across the cell membrane. Mutations in this gene have been associated with noninsulin-dependent diabetes mellitus (NIDDM). [provided by RefSeq, Jul 2008]</p>