

Product datasheet for **SC319638**

SLC37A4 (NM_001467) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC37A4 (NM_001467) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC37A4
Synonyms:	G6PT1; G6PT2; G6PT3; GSD1b; GSD1c; GSD1d; PRO0685; TRG-19; TRG19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001467.4
 CGCCTCTGTTTCAGGACTGGTCCCCTTGGAGCCTCCCCAGGCTTAATGATTGTCCAGA
 AGGCGGCTATAAAGGGAGCCTGGGAGGCTGGGTGGAGGAGGGAGCAGAAAAACCAACT
 CAGCAGATCTGGGAAGTGTGAGAGCGGCAAGCAGGAAGTGGTTCAGAGGCTGTGCGTCT
 TGGCTGGTAGGGCCTGCTCTTTTCTACCATGGCAGCCCAGGGCTATGGCTATTATCGCAC
 TGTGATCTTCTCAGCCATGTTTGGGGGCTACAGCCTGTATTACTCAATCGCAAGACCTT
 CTCCTTTGTGCATGCCATCATTGGTGGAAAGAGATCCCTTTGGACAAGGATGATTTGGGGTT
 CATCACCAGCAGCCAGTCGGCAGCTTATGCTATCAGCAAGTTTGTCAAGTGGGGTGTCTGTC
 TGACCAGATGAGTGTCTGGCTCTTCTCTTCTGGGCTGCTCCTGGTTGGCCTGGTCAA
 CATATTCTTTGCCTGGAGCTCCACAGTACCTGTCTTTGCTGCCCTCTGGTTCTTAATGG
 CCTGGCCAGGGGCTGGGCTGGCCCCATGTGGGAAGGTCTGCGGAAGTGGTTTGAGCC
 ATCTCAGTTTGGCACTTGGTGGGCCATCCTGTCAACCAGCATGAACCTGGCTGGAGGGCT
 GGGCCCTATCCTGGCAACCATCCTTGGCCAGAGCTACAGCTGGCGCAGCACGCTGGCCCT
 ATCTGGGGCACTGTGTGGTTGTCTCCTTCTCTGTCTCCTGCTCATCCACAATGAACC
 TGCTGATGTTGGACTCCGCAACCTGGACCCCATGCCCTCTGAGGGCAAGAAGGGCTCCTT
 GAAGGAGGAGAGCACCCATGCAGGAGCTGCTGCTGTCCCCTTACCTGTGGGTGCTCTCCAC
 TGGTTACCTTGTGGTGGTTGGAGTAAAGACCTGCTGTACTGACTGGGGCCAGTTCTTCTCT
 TATCCAGGAGAAAAGGACAGTCAGCCCTTGTAGGTAGCTCCTACATGAGTGCCCTGGAAAGT
 TGGGGGCTTGTAGGCAGCATCGCAGCTGGCTACCTGTGACAGCCGGGCCATGGCAAAGGC
 GGGACTGTCCAACACGGGAACCTCGCCATGGCTGTTGCTGTTTCATGATGGCTGGCAT
 GACAGTGTCCATGTACCTTCCGGGTAACAGTGACAGTACTCCCCAAGCTCTGGAT
 CCTGGATTGGGAGCTGATTTGGTTTCTCCTCGTATGGCCCCATTGCCCTGTTTGGAGT
 CATAGCCAACGAGAGTGGCCCTCCCAACTTGTGTGGCACCTCCACGCCATTGTGGGACT
 CATGGCCAATGTGGGCGGCTTCTGGCTGGGCTGCCCTTCAGCACCATGCCAAGCACTA
 CAGTTGGAGCACAGCCTTCTGGGTGGCTGAAGTATTTGTGCGGCCAGCACGGCTGCCTT
 CTTCTCTACGAAACATCCGCACCAAGATGGGCCGAGTGTCCAAGAAGGCTGAGTGAAG
 AGAGTCCAGGTTCCGGAGCACCATCCCACGGTGGCCTTCCCCCTGCACGCTCTGCGGGGA
 GAAAAGGAGGGGCTGCCTGGCTAGCCCTGAACCTTTCACCTTTCATTTCTGCGCCTTTT
 CTGTACCCCGGGTGGCGCTGGAAGTTATCAGTGGCTAGTGAAGTCCCAGCTCCCTGATCC
 TATGCTCTATTTAAAAGATAACCTTTGGCCTTAGACTCCGTTAGCTCCTATTTCTGCTCT
 TCAGACAAACAGGAACTTCTGCAGTCAGGAAGGCTCCTGTACCCTTCTCTTTTCTAG
 GCCTGTCTGCCCAGCATCCTACCCATCCCCACCTGAAGTGAAGGCTATCCCTGCAGCTG
 CAGGGCACTAATGACCCTTGACTTCTGCTGGGTCTAAGTCTCTCAGCAGTGGGTGACT
 GCTGTTGCCAATACCTCAGACTCCAGGAAAGAGAGGAGGCCATCATTCTCACTGTACCA
 CTAGGCGCAGTTGGATATAGGTGGGAAGAAAAGGTGACTTGTATAGAAGATTAATACTA
 GATTTGATACTGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001467

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001467.4](#), [NP_001458.1](#)

RefSeq Size: 2090 bp

RefSeq ORF: 1290 bp

Locus ID: 2542

UniProt ID: [O43826](#)

Cytogenetics: 11q23.3

Domains: sugar_tr

Protein Families: Transmembrane

Gene Summary: This gene regulates glucose-6-phosphate transport from the cytoplasm to the lumen of the endoplasmic reticulum, in order to maintain glucose homeostasis. It also plays a role in ATP-mediated calcium sequestration in the lumen of the endoplasmic reticulum. Mutations in this gene have been associated with various forms of glycogen storage disease. Alternative splicing in this gene results in multiple transcript variants.[provided by RefSeq, Aug 2009]
Transcript Variant: This variant (4) differs in the 5' UTR, compared to variant 1. Variants 1, 4, and 5 encode the same protein (isoform 1).