

Product datasheet for **SC327476**

SLC37A4 (NM_001164279) Human Untagged Clone

Product data:

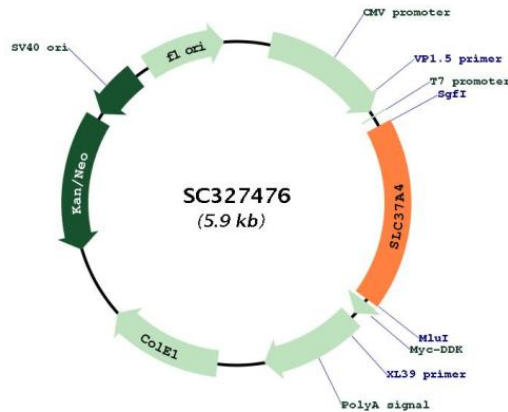
Product Type:	Expression Plasmids
Product Name:	SLC37A4 (NM_001164279) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC37A4
Synonyms:	G6PT1; G6PT2; G6PT3; GSD1b; GSD1c; GSD1d; PRO0685; TRG-19; TRG19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC327476 representing NM_001164279. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAGTGCCTCGCTGGCTCTTCTCTTCTGGGCTGCTCCTGGTTGGCCTGGTCAACATATTCTTTGCCTGG
AGCTCCACAGTACCTGTCTTTGCTGCCCTCTGGTTCCTTAATGGCCTGGCCAGGGGCTGGGCTGGCCC
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TCAGCCCTTGTAGGTAGCTCCTACATGAGTGCCCTGGAAGTTGGGGCCCTTGTAGGCAGCATCGCAGCT
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CCCAAGCTCTGGATCCTGGTATTGGGAGCTGTATTGGTTTCTCCTCGTATGGCCCCATTGCCCTGTTT
GGAGTCATAGCCAACGAGAGTGCCCTCCCAACTGTGTGGCACCTCCCACGCCATTGTGGGACTCATG
GCCAATGTGGGCGGCTTTCTGGCTGGGCTGCCCTCAGCACCATGGCAAGCACTACAGTTGGAGCACA
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ACCAAGATGGGCCGAGTGTCCAAGAAGGCTGAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001164279

Insert Size: 1071 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).

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_001164279.1](#)

RefSeq Size: 2047 bp

RefSeq ORF: 1071 bp

Locus ID: 2542

UniProt ID: [O43826](#)

Cytogenetics: 11q23.3

Protein Families: Transmembrane

MW: 38.2 kDa

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 (3) differs in the 5' UTR and uses a downstream translational start codon, compared to variant 1. This results in a shorter protein (isoform 3), compared to isoform 1.