

Product datasheet for **SC304641**

glycerol 3 phosphate permease (SLC37A1) (NM_018964) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	glycerol 3 phosphate permease (SLC37A1) (NM_018964) Human Untagged Clone
Tag:	Tag Free
Symbol:	glycerol 3 phosphate permease
Synonyms:	G3PP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC304641 representing NM_018964.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTCGACTCCCGCTGGCATTTCGCTTCATCATCTCATTCTCCAGGGATCAGTGGTACAGAGCCCTTC
ATTTTTATTTTGACATTTCTGCTGTATGCAAGTTTTCACTTATCTCGAAAGCCTATCAGCATAGTTAAG
GGTGAGCTCCACAAGTACTGCACTGCTTGGGATGAAGCTGACGTACAGTTTCAGCAGCCAGAACAGGAAG
TCTGGGTCCGCTGCCCCACCAGCTCCCTGACAAATGAGACCGACTGTGGCTGGGCACCGTTTGATAAG
AACAACTATCAGCAGCTGCTTGGGGCCCTGGACTACTCCTTCTGTGCGCCTATGCCGTGGGGATGTAC
CTCAGTGGCATCATTGGGGAGCGCCTGCCGATTAGGTATTACCTAACTTTCGGGATGCTCGCCAGCGGA
GCCTTCACCGCCCTGTTCCGGCTTAGGGTATTTCTACAACATCCACAGTTTCGGATTCTACGTGGTAACT
CAGGTCATCAACGGGCTGGTGCAGACCACCGGCTGGCCAGCGTCGTACCTGCCTCGGCAACTGGTTT
GGAAAAGGAAGGAGAGGTTTATTATGGGGTCTGGAACCTCCACACCTCCGTGGCAACATCTTGGGG
TCATTGATCGCTGCTACTGGGTGCCACATGCTGGGGCTGTCTTTCGTGCTGCCTGGAGCCATCGTG
GCAGCCATGGGGATAGTGTGCTTTCTCTTCTCATTGAACATCCGAACGACGTACAGTGCCTCCACC
CTGGTGACGCACTCAAAAGGCTATGAGAATGGTACAAACAGATTGAGACTCCAGAAGCAAATCTGAAG
AGCGAAAAGAACAAGCCTCTGGACCCAGAGATGCAGTGCCTGCTGCTCTCAGATGGGAAGGGCTCCATC
CACCCGAACCACGTGCTCATTCTCCCGGGGACGGTGGGAGTGGCACGGCCGCCATCAGCTTACAGGG
GCCTTGAAAATTCAGGCGTGATAGAGTTCTCACTGTGTCTGTGTTGCCAAGCTGGTACAGTATACT
TTCCTCTTCTGGTGCCTGTACATCAGCAATGTGGATCACCTTGTATGCCAAAAGCGGGGGAGCTC
TCCACCCTGTTGACGTGGGCGGAATCTTTGGTGGGATCCTGGCAGGTGTGATCTCAGACCGACTGGAG
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AGCAAGATGGGGTTGAGGCCACCATCGCCATGCTGCTGCTCAGCGGAGCCCTGGTACGTGGGCCCTAC
ACACTCATCACCCCGCTCTCCGCCACCTGGGGACTCATAAAAGTCTGAAAGCAACCGCACGCC
CTCTCCACCGTGACGGCCATCATTGACGGGACGGGCTCTGTAGGAGCAGCCCTGGCCCCCTGTGGCT
GGGCTCTCTCCCGTCCGGCTGGAGCAATGTGTTTTACATGCTGATGTTTGCAGATGCCTGTGCCTTA
CTGTTCTGATCCGCTCATACACAAGGAGCTGAGCTGCCAGGGTCAGCTACGGGGACCAAGTTCCA
TTTAAGGAACAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_018964

Insert Size: 1602 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_018964.3](#)

RefSeq Size: 3098 bp

RefSeq ORF: 1602 bp

Locus ID: 54020

UniProt ID: [P57057](#)

Cytogenetics: 21q22.3

Protein Families: Transmembrane

MW: 57.6 kDa

Gene Summary: The protein encoded by this gene localizes to the endoplasmic reticulum (ER) membrane. This protein translocates glucose-6-phosphate from the cytoplasm into the lumen of the ER for hydrolysis into glucose by another ER membrane protein. This gene is a member of the solute carrier 37 gene family. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.