

Product datasheet for **SC319611**

G6PC3 (NM_138387) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G6PC3 (NM_138387) Human Untagged Clone
Tag:	Tag Free
Symbol:	G6PC3
Synonyms:	SCN4; UGRP
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_138387.2
 CCGAGGAGAGCGCAGGAGAAACAGTACCGGCTGGAGGCCGGTCTTGCAGGAGCGGGGA
 CTGCTGGGGGCGGGGCTTGGTGGTACTGCTGGCGGGGCGGGCCTGGGGCTCAGAGGGG
 TGGGCTTTGGAGATCAGAGGGTCGACGCTGCTTCGTTGCCTGGACTCTGGTTCCGCCCT
 GGAGCAAGCCGGGGCCTGGTCGGCAGCTGGGCCGCATGGAGTCCACGCTGGGCGGGG
 ATCGTGATAGCCGAGGCGCTACAGAACCAGTACGCTGGCTGGAGAACGTGTGGCTGG
 ATCACCTTTCTGGGCGATCCCAAGATCCTTTTCTGTTCTACTTCCCGCGGCCTACTAC
 GCCTCCCGCCGTGTGGGATCGCGGTGCTCTGGATCAGCCTCATCACCGAGTGGCTCAAC
 CTCATCTTCAAGTGGTTTCTTTTGGAGACAGGCCCTTTTGGTGGGTCCATGAGTCTGGT
 TACTACAGCCAGGCTCCAGCCCAGGTTACACAGTTCCTTCTTGTGAGACTGGTCCA
 GGCAGCCCTTCTGGACTGTCATGATCACAGGAGCAGCCCTCTGGCCATAATGACGGCC
 CTGTCTTCGACAGTGGCCACTCGGGCCCGCAGCCGCTGGGTAAGGGTGTGCCTAGCCTG
 GCTTATTGCACCTTCCTTTTGGCGGTTGGCTTGTGCGAATCTTCATCTTAGCACATTC
 CCTCACCAGGTGCTGGCTGGCCTAATAACTGGCGCTGCTCTGGGCTGGCTGATGACTCCC
 CGAGTGCCTATGGAGCGGAGCTAAGCTTCTATGGTTGACTGCACTGGCCCTCATGCTA
 GGCAACAGCCTCATCTATTGGACCCTTTTACACTGGGCCTGGATCTTTCTTGGTCCATC
 AGCCTAGCCTTCAAGTGGTGTGAGCGGCCTGAGTGGATACACGTGGATAGCCGGCCCTTT
 GCCTCCCTGAGCCGTGACTCAGGGGCTGCCCTGGGCTGGGCATTGCCTTGCCTCTCCC
 TGCTATGCCAGGTGCGTCGGGCACAGCTGGGAAATGGCCAGAAGATAGCCTGCCTTGTG
 CTGGCCATGGGGCTGCTGGGCCCCCTGGACTGGCTGGGCCACCCCTCAGATCAGCCTC
 TTCTACATTTTCAATTTCTCAAGTACACCCTCTGGCCATGCCTAGTCTGGCCCTCGTG
 CCCTGGGCAGTGCACATGTTCAAGTACACCCTCTGGCCATGCCTAGTCTGGCCCTCGTG
 CTTGTGTGCTCCCTTTTCCCTTCCAGCCCTAAGTAGGCCCTCCCTCCCTAAATCTGCT
 CAGGAGGAGCCCATCCCTTCCAGCCCTAAGTAGGCCCTCCCTCCCTAAATCTGCT
 TCCGACACCTGGTCTTAGCCCAAAGATGGGCTTCTCTCTCCAGATAAGTTGGTCC
 TCCCTCTGCCTTCTCTCAAGCCCCAAAGAGCAAAGGCAACAGCAAGACCAGCGGGTT
 CTTGCAACTGTGAGGGGAGCCAGGGCGGCCCAATAAAGCCCTTGAATACTTTGAAA
 AA
 AAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_138387

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_138387.2](#), [NP_612396.1](#)

RefSeq Size: 1558 bp

RefSeq ORF: 1041 bp

Locus ID: 92579

UniProt ID: [Q9BUM1](#)

Cytogenetics: 17q21.31

Domains: acidPPc

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes the catalytic subunit of glucose-6-phosphatase (G6Pase). G6Pase is located in the endoplasmic reticulum (ER) and catalyzes the hydrolysis of glucose-6-phosphate to glucose and phosphate in the last step of the gluconeogenic and glycogenolytic pathways. Mutations in this gene result in autosomal recessive severe congenital neutropenia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]
Transcript Variant: This variant (1) encodes the longer isoform (1).