

Product datasheet for **SC217137**

glucose 6 phosphatase, catalytic subunit (G6PC) (NM_000151) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	glucose 6 phosphatase, catalytic subunit (G6PC) (NM_000151) Human 3' UTR Clone
Symbol:	glucose 6 phosphatase, catalytic subunit
Synonyms:	G6Pase; G6PC; G6PT; GSD1; GSD1a
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_000151
Insert Size:	2000 bp



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Insert Sequence:

>SC217137 3'UTR clone of NM_000151
 The sequence shown below is from the reference sequence of NM_000151. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CTGGGCCAGCCGACAAGAAGTCGTTGTAAAGAGATGTGGAGTCTTCGGTGTTTAAAGTCAACAACCATG
CCAGGGATTGAGGAGGACTACTATTTGAAGCAATGGGCACTGGTATTTGGAGCAAGTGACATGCCATCC
ATTCTGCCGTCGTGGAATTAATCACGGATGGCAGATTGGAGGGTCGCCTGGCTTATCCCATGTGTGA
CTCCAGCCTGCCCTCAGCACAGACTCTTTCAGATGGAGGTGCCATATCACGTACACCATATGCAAGTTT
CCCGCCAGGAGGTCCTCTCTCTACTTGAATACTCTCACAAAGTAGGGAGCTCACTCCCACTGGAACA
GCCCATTTTATCTTTGAATGGTCTTCTGCCAGCCATTTTGAAGCCAGAGGTGCTGTGAGCTCAGGTGG
TCCTCTTTTACAATCCTAATCATATTGGGTAATGTTTTTGAAGCTAATGAAGCTATTGAGAAAGACC
TGTTGCTAGAAGTTGGGTTGTTCTGGATTTTCCCCTGAAGACTTACTTATTCTTCGGTCACATATACAA
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TTGAAAGTCTTGTTTTTGCTACTAATTATATAGTATACCATACATTATCATTCAAAAACAACCATCTCG
CTCATAACATCTTTGAAAAGAAAAATATATATGTGCAAGTATTTTAAAGCAACATTTTATTTAAGAA
TAAAGTCTTGTAATTAATATATTTTAGATGCAATGTGATCTGAAGTTTCTAATTTCTGGCCCACTAA
ACGCGTAAGCGGCCGCGGCATCTAGATTGCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
    
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Restriction Sites:

Sgfl-Mlul

OTI Disclaimer:

Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components:

The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq:

[NM_000151.4](#)

Summary:

Glucose-6-phosphatase (G6Pase) is a multi-subunit integral membrane protein of the endoplasmic reticulum that is composed of a catalytic subunit and transporters for G6P, inorganic phosphate, and glucose. This gene (G6PC) is one of the three glucose-6-phosphatase catalytic-subunit-encoding genes in human: G6PC, G6PC2 and G6PC3. Glucose-6-phosphatase catalyzes the hydrolysis of D-glucose 6-phosphate to D-glucose and orthophosphate and is a key enzyme in glucose homeostasis, functioning in gluconeogenesis and glycogenolysis. Mutations in this gene cause glycogen storage disease type I (GSD1). This disease, also known as von Gierke disease, is a metabolic disorder characterized by severe hypoglycemia associated with the accumulation of glycogen and fat in the liver and kidneys. [provided by RefSeq, Feb 2011]

Locus ID:

2538

MW:

76