

Product datasheet for **SC216639**

Glycerol 3 Phosphate Dehydrogenase (GPD1) (NM_005276) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Glycerol 3 Phosphate Dehydrogenase (GPD1) (NM_005276) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	GPD1
Synonyms:	GPD-C; GPDH-C; HTGTI
ACCN:	NM_005276
Insert Size:	1824 bp



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Insert Sequence: >SC216639 3'UTR clone of NM_005276
 The sequence shown below is from the reference sequence of NM_005276. 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
TGCTGCAGAATCATCCAGAACATATGTAGTGGGGCCAGGGCCAGGCCAGGCCGCTTTTTTACCCCA
GTGGAGACCAGCAGAAGCCTGGGGTACCTAGTACCAGGATCTCCAGGACTCCCAGGGAGCAGAGTCTT
CTCATCTTTTCACTGGAGGACAGGAGGCTATGGGGCCAGCTACGCACCTGGAGATCCTGAACTGTCAA
GCCACTGGCAGCCTCATGCCACCACATTTGCCAGAAATGCAGTTGCCCTGTCCCTCTCCAGATGTGGGG
CTTTCTCCATATCCTCTGGGAGGGTGAATCAAGCCCCAGTGTGCCTGCTTGGTGGCGGGGGTGTATG
TATGTGGAGAAGGGTTGGGGGAGAGGCCGGTAGGGCAGGGGCTGCTAGTGGCTGTCTCACATACACCAG
TAATCCTGTTAAAGGGCTGAAGAAGTATCTTAGCCACAGGAGCGATGAGGCAAGGATTGTCAGGGAGGG
GTCTGGGCTTCTGAGCTGATGCAGGCCCAAGGACCCCTTTGCTGACCTCTGCCAGACCACACAGCT
TCGATGGATCTCAGTGTGTTGTTAACAAAATACAAAGATCTCAAACAAACCCTTTTAGCTTCTCCTAGC
AACATCTGTGTCCTCAGAAACCTCTGGTTCTCCCCCTCCCCCTCCCCAGGCTGCCCTGGCACCCAAA
TTGCTGCCATGCTGGCATCTGTAGCTCGGTGGCTTGACATTCTCCCAGGGACTTCCCGTTCTAGTT
CTTTGCCAGCTCCTCCCCACTCTGTGCGACCTTCCAAGCCTTCCCTCACCTCCCCGCCAGCACCTC
TTTGGGAGCAGGAACCTAATCTGCTGACAGAGCTACACCTTTTATAACAGGCTCAGATCACTCAGCTC
CCTGTGACCTTTGTATTCACCCAGGCTTCTTCTCAGTAGCTCTAGCTGGGGGAGGTGTCAGCTGGGCC
CCTCCTGTGCTATCTCCCAGAGGACATCCCTGACTCCACCCCTTTCTTCTCCAAACTCTGCACCTC
TTCTCAGCTGCTCCAGACCGGCCAGGGTAACCCAGCTAACCATGCCTGGCATCTGGAAGCCAGCAGGCC
AGAGGGTGGCCAAAGGCTGATGAACGGTAGGGAAGGGTGAGCAGATTCTATGTTGGTGGGCACCAAT
ATTCCAAGGGCAGCTCTCTTTGCTGAATGAGGGCCTTCTCGTGAGGTAAGTACAACACCAGCAACTCGA
GAGCTGGGAAACTCAAGGAGGAGGAAGAAAATCAAACCACCTACTCCCTGGGGTGAGGAAAGAACAG
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CAGGTCAGCAGCCTAGGCCTCCAGCTATAAATAGTCCGGAGGGCCGAGAGGCTCCCGCCGTCAGCA
GGGCTGTCAGCTTCTGTGTGGCAGCACCTGGCACACTGGCTCTGGCCAGCATTATGCTAAAACCCTGT
TACTCTCCAATGAACCAGGGAGGGCGGGCTCCTCTCTGCGCCTATCCCTTGAGAATTCTGTCTTACCAGT
GAAGGGTGGGGCTGCCAGATCAGGCAGCAGGAGTGAGGGGCACAGTACCCCAGGCCTTGCTGAGCCC
AGGTCTGGGTACTGAGTGTCCAGAGCTGCCTCCCCAGGAGTTAAGGTGGGGGCAAGGGGAAGCTTCA
AGCACTTTGCCTACTTTTGTACTCCCAAGTGCAGTGTGACTCAGGCCTTCCCATCAGGCCTATTTGT
CTACCAATAAAGCGTGTTTTTTCCAGAAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

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_005276.4](#)

Summary:

This gene encodes a member of the NAD-dependent glycerol-3-phosphate dehydrogenase family. The encoded protein plays a critical role in carbohydrate and lipid metabolism by catalyzing the reversible conversion of dihydroxyacetone phosphate (DHAP) and reduced nicotinic adenine dinucleotide (NADH) to glycerol-3-phosphate (G3P) and NAD⁺. The encoded cytosolic protein and mitochondrial glycerol-3-phosphate dehydrogenase also form a glycerol phosphate shuttle that facilitates the transfer of reducing equivalents from the cytosol to mitochondria. Mutations in this gene are a cause of transient infantile hypertriglyceridemia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012]

Locus ID:

2819

MW:

64.9