

Product datasheet for **SC126078**

Glycerol kinase (GK) (BC037549) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glycerol kinase (GK) (BC037549) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glycerol kinase
Synonyms:	ATP:glycerol 3-phosphotransferase; GK1; GKD; glycerokinase; glycerol kinase
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for BC037549 edited
 CCGGCCGCAATCGCCGGCCGACCTGAAGCTGGTTTCATGGCAGCCTCAAAGAAGGCAGTT
 TTGGGGCCATTGGTGGGGCGGTGGACCAGGGCACCAGTTCGACGCGCTTTTTGGTTTTCC
 AATTCAAAAACAGCTGAAGTACTTAGTCATCATCAAGTAGAAATAAAAACAAGAGTCCCA
 AGAGAAGGATGGGTGGAACAGGACCCTAAGGAAATCTACATTCTGTCTATGAGTGTATA
 GAGAAAACATGTGAGAACTTGGACAGCTCAATATTGATATTTCCAACATAAAAAGCTATT
 GGTGTGACCAACCAGAGGAAACCAGTGTAGTCTGGGACAAGATAACTGGAGAGCCTCTC
 TACAATGCTGTGGTGTGGCTTGATCTAAGAACCAGTCTACCGTTGAGAGTCTTAGTAAA
 AGAATTCAGGAAATAATAACTTTGTCAAGTCCAAGACAGGCCTTCCACTTAGCATTAC
 TTCAGTGCAGTAAAACCTCGTTGGCTCCTTGACAAATGTGAGAAAAGTTCAAAGGCCGTT
 GAAGAAAACGAGCTCTTTTTGGGACTATTGATTCATGGCTTATTTGGAGTTTGACAGGA
 GGAGTCAATGGAGGTGCCACTGTACAGATGTAACAAATGCAAGTAGGACTATGCTTTTC
 AACATTCATTCTTTGGAATGGGATAAACAACCTGCGAATTTTTTGAATCCAATGGAA
 ATCTTCCAAATGTCGGAGTCTTCTGAGATCTATGGCCTAATGAAAGCTGGGGCCTTG
 GAAGGTGTGCAAATATCTGGGTGTTTAGGGACCAGTCTGCTGCATTGGTGGGACAAATG
 TGCTTCCAGATTGGACAAGCCAAAAATACGTATGGAACAGGATGTTTCTACTATGTAAT
 ACAGGCCATAAGTGTGATTTTTCTGATCATGGCCTTCTACCACAGTGGCTTACAAACTT
 GGCAGAGACAAACCAGTATATTGCTTTGGAAGTCTGTAGCTATAGCTGGTGTCTGTT
 ATTCGCTGGCTAAGAGACAATCTTGAATTATAAAGACCTCAGAAGAAATGAAAAACTT
 GCTAAAGAAGTAGTACTTCTTATGGCTGCTACTTCGTCACGATTTTCGGGGTTATAT
 GCACCTTATTGGAGCCAGCGCAAGAGGGATAATCTGTGGACTCACTCAGTTCACCAAT
 AAATGCCATATTGCTTTTGTGCTAGAAAGCTGTTTGTTCAAACTCGAGAGATTTTG
 GATGCCATGAATCGAGACTGTGGAATCCACTCAGTCAATTTGCAGGTAGATGGAGGAATG
 ACCAGCAACAAAATTCTTATGCAGCTACAAGCAGACATTCTGTATATACCAGTAGTGAAG
 CCTCAATGCCCAGAACTGCACTGGGTGCGCTATGGCGGCAGGGGCTGCAGAAGGA
 GTCGGCGTATGGAGTCTCGAACCAGGATTTGTCTGCCGTCACGATGGAGCGGTTTGAA
 CCTCAGATTAATGCGGAGGAAAGTAAAATTCGTTATTCTACATGGAAGAAAGCTGTGATG
 AAGTCAATGGGTGGGTTACAACCTCAATCTCCAGAAAGTGGTATTCCATAAAACCTACCA
 ACTCATGGATCCCAAGATGTGAGCTTTTACATAATGAAAGAACCAGCAATTCTGTCT
 CTTAATGCAATGACACTATTCATAGACTTTGATTTTATTATAAGCCACTTGCTGCATGA
 CCCTCCAAGTAGACCTGTGGCTTAAAATAAAGAAAATGCAGCAAAAAGAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC037549 unedited
 TCTGATTTGTATACGACTCTATATAGGCGCCGACAGATTCAGATCTGGTACCGGTCGGG
 AATTCGCGGATCCGCGCCGCAATCGCCGGCCGACCTGAAGCTGGTTTCATGGCAGCCTCA
 AAGAAGGCAGTTTTGGGGCATTGGTGGGGCGGTGGACCAGGGCACCAGTTCGACGCGC
 TTTTTGGTTTTCAATTCAAAACAGCTGAACTACTTAGTCATCATCAAGTAGAAATAAAA
 CAAGAGTTCCTAAGAGAAGGATGGGTGGAACAGGACCCTAAGGAAATCTACATTCTGTC
 TATGAGTGTATAGAGAAAACATGTGAGAAACTGGACAGCTCAATATTGATATTTCCAAC
 ATAAAAGCTATTGGTGTGAGCAACCAGAGGAAACCAGTGTAGTCTGGGACAAGATAACT
 GGAGAGCCTCTACAATGCTGTGGTGTGGCTTGATCTAAGAACCAGTCTACCGTTGAG
 AGTCTTAGTAAAAGAATCCAGGAAATAATAACTTTGTCAAGTCCAAGACAGGCCTTCCA
 CTTAGCACTTACTCAGTGCAGTAAAACCTCGTTGGCTCCTTGACAATGTGAGAAAAGTT
 CNAAGGCCGTTGAAGAAAACGAGCTCTTTGGGACTATTGATTCATGGCTATTTTGGAG
 TTTGACAGGAGGAGTCAATGGAAGTGTCCACTGTACAGATGTAACAAATGGCAGTANGAC
 TATGCTTTTCAACATTCTTTGGAATGGGATAAAAACCTCTGCGGATTTTTTGAAT
 TCCAATGGNAAATCCTTCCAATGTCCGGAGTCTTCTGAGATCTATGGCCTAATGAAAAC
 TGGGGCTTTGNAAGGTGCCATTTCTGGTGGTTAAGGGACCAGTCTGCTGCTTGGTGGG
 ACAAATTTGCTTTCCAATGGGCCAAGCAAAATACCTTTGGGACAGG

Restriction Sites: Please inquire

ACCN:	BC037549
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).
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:	<ol style="list-style-type: none">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:	BC037549.1 , AAH37549.1
RefSeq Size:	1835 bp
Locus ID:	2710
Cytogenetics:	Xp21.2
Protein Families:	Druggable Genome
Protein Pathways:	Glycerolipid metabolism, Metabolic pathways, PPAR signaling pathway
Gene Summary:	The protein encoded by this gene belongs to the FGGY kinase family. This protein is a key enzyme in the regulation of glycerol uptake and metabolism. It catalyzes the phosphorylation of glycerol by ATP, yielding ADP and glycerol-3-phosphate. Mutations in this gene are associated with glycerol kinase deficiency (GKD). Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2011]