

Product datasheet for **SC329179**

PFKM (NM_001166686) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PFKM (NM_001166686) Human Untagged Clone
Tag:	Tag Free
Symbol:	PFKM
Synonyms:	ATP-PFK; GSD7; PFK-1; PFK-A; PFK1; PFKA; PFKX; PPP1R122
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001166686, the custom clone sequence may differ by one or more nucleotides

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ATGCATAAAGACGAGTTTCATCTGAAATTTTTCATGTGTGTGATTCAAGTCTCGCCAGTTA
GTCAGGACTCCTCAGAGAACAGCTGGGGAAGCTTCTACTTCCAGCATGCTCATACCAAAG
CCACCACCAAAGACAGACATCTTGAAGAGTCTAGATACTATGGATGATCCAGACACCGTG
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TTTGTCCATGAGGGTTATCAAGGCTGGTGGATGGTGGAGATCACATCAAGGAAGCCACC
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GCTACGAAGTCCAGCTACCTGAACATTGTGGCCCTGGTTGGGTCAATTGACAATGACTTC
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CGCCACTGTGGATACCTGGCCCTTGTACCTCTCTGTCCTGTGGGGCCGACTGGGTTTTT
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TGACAACCTGTGACCGCATCAAGCAGTCAGCAGCTGGCACAAGCGTCGGGTGTTTATC
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AAAATCTAGCCAAGTACGAGATTGACTTGACACTTCAGACCATGCCACCTGGAGCAC
ATCACCCGAAGCGGTCCGGGAAGCTGCCGTCTAA
    
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Restriction Sites: Please inquire
ACCN: NM_001166686

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:	<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:	<u>NM_001166686.1</u> , <u>NP_001160158.1</u>
RefSeq Size:	3536 bp
RefSeq ORF:	2556 bp
Locus ID:	5213
UniProt ID:	<u>P08237</u>
Cytogenetics:	12q13.11
Protein Families:	Druggable Genome
Protein Pathways:	Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway
Gene Summary:	<p>Three phosphofructokinase isozymes exist in humans: muscle, liver and platelet. These isozymes function as subunits of the mammalian tetramer phosphofructokinase, which catalyzes the phosphorylation of fructose-6-phosphate to fructose-1,6-bisphosphate. Tetramer composition varies depending on tissue type. This gene encodes the muscle-type isozyme. Mutations in this gene have been associated with glycogen storage disease type VII, also known as Tarui disease. Alternatively spliced transcript variants have been described. [provided by RefSeq, Nov 2009]</p> <p>Transcript Variant: This variant (1) (also known as TE-PFKM) encodes isoform 1. Variants 1, 7, 8, and 9 encode the same isoform (1).</p>