

Product datasheet for **RC202888**

PFKL (NM_001002021) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PFKL (NM_001002021) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PFKL
Synonyms:	ATP-PFK; PFK-B; PFK-L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC202888 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTGTAACCAGGGTAGAGGTCGAGAGTCTCTCGTGGGGTCTCCATGTTCAAGGGAGCTGCCAGGCT
TGAGCAGGAGCCCCAGCAGGAACTGGCTTTGCCAAGGCCCCGCTGGGACAGACTGTTTCTTTCACTG
CAGTCCTGGGAGCCGAGGGCAAGGGGACAGGAAAGAGGAAGTGACCTCAGAGCCTGGTGGCACCAGCATC
ATGTCCAGGCTGGGGGCATGAACGCTGCTGTCCGGGCTGTGACGCGCATGGGCATTTATGTGGTGCCA
AAGTCTTCCTCATCTACGAGGGCTATGAGGGCCTCGTGGAGGGAGGTGAGAACATCAAGCAGGCCAACTG
GCTGAGCGTCTCCAACATCATCCAGCTGGGCGGCACTATCATTGGCAGCGCTCGTGCAAGGCCTTTACC
ACCAGGGAGGGGCGCCGGGCGAGCGGCTACAACCTGGTCCAGCACGGCATCACCACCTGTGCGTCATCG
GCGGGGATGGCAGCCTTACAGGTGCCAACATCTCCGACGAGTGGGGCAGCCTGCTGGAGGAGCTGGT
GGCGGAAGGTAAGATCTCAGAGACTACAGCCCGGACCTACTCGCACCTGAACATCGCGGGCTAGTGGGC
TCCATCGATAACGACTTCTGCGGCACCGACATGACCATCGGCACGACTCGGCCCTCCACCGCATCATGG
AGGTCATCGATGCCATCACCACCACTGCCAGAGCCACCAGAGGACCTTCGTGCTGGAAGTGATGGGCCG
GCACTGCGGGTACCTGCGCTGGTATCTGCACTGGCCTCAGGGGCGGACTGGCTGTTTATCCCCGAGGCT
CCACCCGAGGACGGCTGGGAGAAGTTCATGTGTGAGAGGCTGGGTGAGACTCGGAGCCGTGGGTCCCAGC
TGAACATCATCATCGCTGAGGGTGCCATTGACCGCAACGGGAAGCCCATCTCGTCCAGCTACGTGAA
GGACCTGGTGGTTCAGAGGCTGGGCTTCGACACCCGTGTAAGTGTGCTGGGCCACGTGCAGCGGGAGGG
ACGCCCTCTCCCTTCACCGGATCCTGAGCAGCAAGATGGGCATGGAGGCGGTGATGGCGCTGCTGGAAG
CCACGCTGACACGCGCGCTCGGTGTCACCCCTCGGGGAACCAGTCAGTGGCGCTGCCCTCATGGA
GTGCGTGCAGATGACCAAGGAAGTGCAGAAAGCCATGGATGACAAGAGGTTTGACGAGGCCACCCAGCTC
CGTGGTGGGAGCTTCGAGAACTGGAACATTTACAAGCTCCTCGCCCACCAGAAGCCCCCAAGGAGA
AGTCTAACTTCTCCCTGGCCATCCTGAATGTGGGGCCCCGCGGCTGGCATGAATGCGGCCGTGCGCTC
GGCGGTGCGGACCGCATCTCCCATGGACACACAGTATACGTGGTGCACGATGGCTTCGAAGGCCTAGCC
AAGGGTCAGGTGCAAGAAGTAGGCTGGCAGCAGCTGGCCGGCTGGTTGGGGCGTGGTGGCTCCATGCTGG
GGACCAAGAGGACCTGCCAAGGGCCAGCTGGAGTCCATTGTGGAGAACATCCGCATCTATGGTATTCA
CGCCCTGCTGGT
TACGAGGAGCTCTGCATCGTCATGTGTGTATCCAGCCACCATCAGCAACAACGTCCTTGGCACCGACT
TCAGCCTGGGCTCCGACACTGCTGTAATGCCGCCATGGAGAGCTGTGACCGCATCAAACAGTCTGCCTC
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GGCATTGCTGTGGGGGCGACGCCGCTACGTCTTCGAGGACCCTTTCAACATCCACGACTTAAAGGTCA
ACGTGGAGCACATGACGGAGAAGATGAAGACAGACATTGAGAGGGCCTGGTGTGCGGAACGAGAAGTG
CCATGACTACTACACCACGGAGTTCCTGTACAACCTGACTCATCAGAGGGCAAGGGCGTCTTCGACTGC
AGGACCAATGCTCTGGGCCACCTGCAGCAGGGTGGCGCTCAACCCCTTTGACCGGAACATGGGACCA
AGCTGGGGTGAAGGCCATGCTGTGGTGTGCGGAGAAGCTGCGCAGGTTTACCGCAAGGGACGGGTGTT
CGCCAATGCCCCAGACTCGGCTGCGTGTGCGGCTGAAGAAGAAGGCGGTGGCCTTCAGCCCCGCTACT
GAGCTCAAGAAAGACACTGATTTTCGAGCACCGCATGCCACGGGAGCAGTGGTGGCTGAGCCTGCGGCTCA
TGCTGAAGATGCTGGCACAATACCGCATCAGTATGGCCGCTACGTGTCAGGGGAGCTGGAGCACGTGAC
CCGCCGACCCCTGAGCATGGACAAGGGCTTC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202888 protein sequence
Red=Cloning site Green=Tags(s)

MCNQGRGRESSRGGHLVQGSCRGLSRSPQQETGFAKAPAGTDCFFHCSPGSRGQGDRKKEVTSEPGGTSI
MSRLGGMNAAVRAVTRMGIYVGAKVFLIYEGYGLVEGGENIKQANWLSVSNIIQLGGTIIGSARCKAFT
TREGRRAAAYNLVQHGITNLCVIGGDGSLTGANIFRSEWGSLLLEELVAEGKISSETTARTYSHLNIAGLVG
SIDNDFCGTDMTIGTDSALHRIMEVIDAITTTAQSHQRTFVLEVMGRHCGYLALVSALASGADWLFPEA
PPEDGWENFMCERLGETRSRGSRLNIIIIAEGAIDRNGKPISSSYVKDLVVQRLGFDTRVTVLGHVQRGG
TPSAFDRILSSKMGMEAVMALLEATPDTPACVVTLSGNQSVRLPLMECVQMTKEVQKAMDDKRFDEATQL
RGGSFENNWNIIYKLLAHQKPPKEKSNFSLAILNVGAPAAGMNAAVRSVAVRTGISHGHTVYVVHDGFEGLA
KGQVQEVGWHDVAGWLGRRGSMGLTKRTLPKGQLESIVENIRIYGIHALLVVGGFAYEYGLQLVEARGR
YEELCIVMCVIPATISNNVPGTDFSLGSDTAVNAAMESCDRIKQSASGTRRVFIVETMGGYCGYLATVT
GIAVGADAAYVFEDPFNIHDLKVNVEHMTKMKTDIQRGLVLRNEKCHDYTTTEFLYNLYSSEGKGVFDC
RTNVLGHLQGGAPTPFDRNYGTLGVKAMLWSEKLREVVYRKRGRVFANAPDSACVIGLKKKAVAFSPVT
ELKKDTEFHRMPREQWWLSLRLMLKMLAQYRISMAAYVSGELEHVTRRTL SMDKGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6209_d08.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001002021

ORF Size: 2481 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001002021.3](#)

RefSeq Size: 3412 bp

RefSeq ORF: 2493 bp

Locus ID: 5211

UniProt ID: [P17858](#)

Cytogenetics: 21q22.3

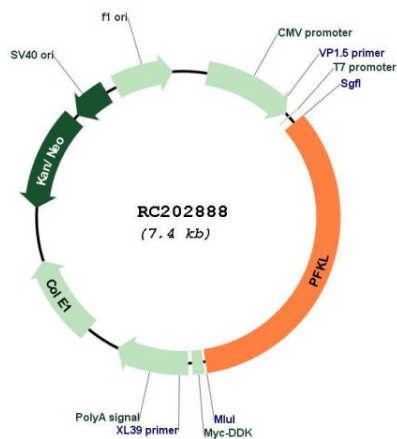
Protein Families: Druggable Genome

Protein Pathways: Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway

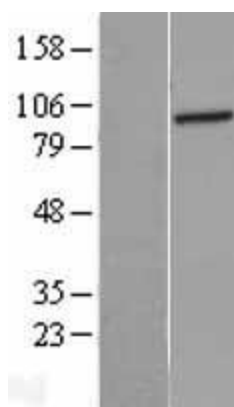
MW: 90.2 kDa

Gene Summary: This gene encodes the liver (L) subunit of an enzyme that catalyzes the conversion of D-fructose 6-phosphate to D-fructose 1,6-bisphosphate, which is a key step in glucose metabolism (glycolysis). This enzyme is a tetramer that may be composed of different subunits encoded by distinct genes in different tissues. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]

Product images:



Circular map for RC202888



Western blot validation of overexpression lysate (Cat# [LY424324]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202888 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).