

## Product datasheet for **RG202888**

### PFKL (NM\_001002021) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PFKL (NM_001002021) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PFKL
Synonyms:	ATP-PFK; PFK-B; PFK-L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG202888 representing NM\_001002021  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGTAACCAGGGTAGAGGTCGAGAGTCTCTCGTGGGGTCTCCATGTTCAAGGGAGCTGCCAGGCT  
 TGAGCAGGAGCCCCAGCAGGAACTGGCTTTGCCAAGGCCCCGCTGGACAGACTGTTTCTTTCACTG  
 CAGTCCTGGGAGCCGAGGGCAAGGGGACAGGAAAGAGGAAGTGACCTCAGAGCCTGGTGGCACCAGCATC  
 ATGTCCAGGCTGGGGGCGATGAACGCTGCTGTCCGGGCTGTGACGCGCATGGGCATTTATGTGGTGCCA  
 AAGTCTTCTCATCTACGAGGGCTATGAGGGCCTCGTGGAGGGAGGTGAGAACATCAAGCAGGCCAACTG  
 GCTGAGCGTCTCCAACATCATCCAGCTGGGCGGCACTATCATTGGCAGCGCTCGTGCAAGGCCTTTACC  
 ACCAGGGAGGGGCGCCGGGCGAGCGGCTACAACCTGGTCCAGCACGGCATCACCAACCTGTGCGTCATCG  
 GCGGGGATGGCAGCCTTACAGGTGCCAACATCTCCGACGAGTGGGGCAGCCTGCTGGAGGAGCTGGT  
 GCGGGAAGGTAAGATCTCAGAGACTACAGCCCGGACCTACTCGCACCTGAACATCGCGGGCTAGTGGGC  
 TCCATCGATAACGACTTCTGCGGCACCGACATGACCATCGGCACGACTCGGCCCTCCACCGCATCATGG  
 AGGTCATCGATGCCATCACCCACTGCCAGAGCCACCAGAGGACCTTCGTGCTGGAAGTGATGGGCCG  
 GCACTGCGGGTACCTGCGCTGGTATCTGCACTGGCCTCAGGGGCGGACTGGCTGTTTATCCCCGAGGCT  
 CCACCCGAGGACGGCTGGGAGAAGTTCATGTGTGAGAGGCTGGGTGAGACTCGGAGCCGTGGGTCCCAGC  
 TGAACATCATCATCGCTGAGGGTGCCATTGACCGAACGGGAAGCCCATCTCGTCCAGCTACGTGAA  
 GGACCTGGTGGTTCAGAGGCTGGGCTTCGACACCCGTGTAAGTGTGCTGGGCCACGTGCAGCGGGAGGG  
 ACGCCCTCTCCCTTCACCGGATCTGAGCAGCAAGATGGGCATGGAGGCGGTGATGGCGCTGCTGGAAG  
 CCACGCTGACACGCGGCTCGGTGTCACCCCTCGGGGAACAGTCAGTGGCGCTGCCCTCATGGA  
 GTGCGTGCAGATGACCAAGGAAGTGCAGAAAGCCATGGATGACAAGAGGTTTGACGAGGCCACCCAGCTC  
 CGTGGTGGGAGCTTCGAGAACTGGAACATTTACAAGCTCCTCGCCCACCAGAAGCCCCCAAGGAGA  
 AGTCTAACTTCTCCCTGGCCATCCTGAATGTGGGGCCCCGGCGCTGGCATGAATGCGGCCGTGCGCTC  
 GGCGGTGCGGACCGGCATCTCCCATGGACACACAGTATACGTGGTGCACGATGGCTTCGAAGGCCTAGCC  
 AAGGGTCAGGTGCAAGAAGTAGGCTGGCAGCAGTGGCCGGCTGGTTGGGGCGTGGTGGCTCCATGCTGG  
 GGACCAAGAGGACCTGCCCAAGGGCCAGCTGGAGTCCATTGTGGAGAACATCCGCATCTATGGTATTCA  
 CGCCCTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
 TACGAGGAGCTTGCATCGTATGTGTGTATCCAGCCACCATCAGCAACAACGTCCTTGGCACCGACT  
 TCAGCCTGGGCTCCGACACTGCTGTAATGCCGCCATGGAGAGCTGTGACCGCATCAAACAGTCTGCCTC  
 GGGACCAAGCGCCGTGTGTTATCGTGGAGACCATGGGGGGTACTGTGGCTACCTGGCCACCGTGACT  
 GGCATTGCTGTGGGGGCGACGCCGCTACGTCTTCGAGGACCCTTTCAACATCCACGACTTAAAGGTCA  
 ACGTGGAGCAGTACCGGAGAAGATGAAGACAGACATTAGAGGGGCGCTGGTGTGCGGAACGAGAAGTG  
 CCATGACTACTACACCACGGAGTTCCTGTACAACCTGACTCATCAGAGGGCAAGGGCGTCTTCGACTGC  
 AGGACCAATGCTCTGGGCCACCTGCAGCAGGGTGGCGCTCCAACCCCTTTGACCGGAACATGGGACCA  
 AGCTGGGGTGAAGGCCATGCTGTGGTGTGCGGAGAAGCTGCGGAGGTTTACCGCAAGGGACGGGTGTT  
 CGCCAATGCCCCAGACTCGGCTGCGTGTATCGGCTGAAGAAGAAGGCGGTGGCCTTCAGCCCCGTCAT  
 GAGCTCAAGAAAGACACTGATTTTCGAGCACCGCATGCCACGGGAGCAGTGGTGGCTGAGCCTGCGGCTCA  
 TGCTGAAGATGCTGGCACAATACCGCATCAGTATGGCCGCTACGTGTCAGGGGAGCTGGAGCACGTGAC  
 CCGCCGACCCCTGAGCATGGACAAGGGCTTC

**ACCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG202888 representing NM\_001002021  
Red=Cloning site Green=Tags(s)

MCNQGRGRESSRGGGLHVQGSCRGLSRSPQQETGFAKAPAGTDCFFHCSPGSRGQGDREKKEVTSEPGGTSI  
MSRLGGMNAAVRAVTRMGIYVGAKVFLIYEGYGLVEGGENIKQANWLSVSNIIQLGGTIIGSARCKAFT  
TREGRRAAAYNLVQHGITNLCVIGGDGSLTGANIFRSEWGSLLLEELVAEGKISSETTARTYSHLNIAGLVG  
SIDNDFCGTDMTIGTDSALHRIMEVIDAITTTAQSHQRTFVLEVMGRHCGYLALVSALASGADWLFPEA  
PPEDGWENFMGERLGETRSRGSRLNIIIIAEGAIDRNGKPISSSYVKDLVVQRLGFDTRVTVLGHVQRGG  
TPSAFDRILSSKMGMEAVMALLEATPDTPACVVTLSGNQSVRLPLMECVQMTKEVQKAMDDKRFDEATQL  
RGGSFENWNIIYKLLAHQKPPKEKSNFSLAILNVGAPAAAGMNAAVRSVAVRTGISHGHTVYVVHDGFEGLA  
KGQVQEVGWHDVAGWLGRRGSMGLTKRTLPGQLESIVENIRIYGIHALLVVGGFAYEYGLQLVEARGR  
YEELCIVMCVIPATISNNVPGTDFSLGSDTAVNAAMESCDRIKQSASGTRRVFIVETMGGYCYLATVT  
GIAVGADAAYVFEDPFNIHDLKVNVEHMTKMKTDIQRGLVLRNEKCHDYTTFFLYNLYSSEGKGVFDC  
RTNVLGHLQGGAPTPFDRNYGTLGVKAMLWSEKLEVVYRKRGRVFANAPDSACVIGLKKKAVAFSPVT  
ELKKDTEFEHRMPREQWWLSLRLMLKMLAQYRISMAAYVSGELEHVTRRTLSDMKGF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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\\_001002021.1](#), [NP\\_001002021.1](#)

**RefSeq Size:** 3402 bp

**RefSeq ORF:** 2493 bp

**Locus ID:** 5211

**UniProt ID:** [P17858](#)

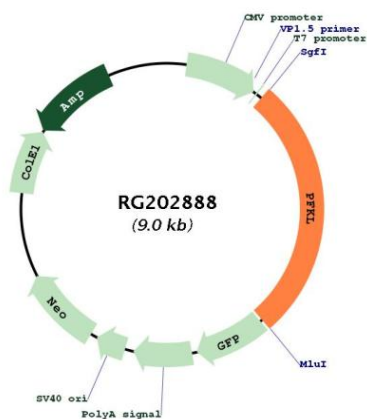
**Cytogenetics:** 21q22.3

**Protein Families:** Druggable Genome

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

**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 RG202888