

## Product datasheet for **RG200922**

### **PFKL (NM\_002626) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PFKL (NM_002626) 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:

>RG200922 representing NM\_002626  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCCGGGTGGACCTGGAGAAGCTGCGGGCGTCGGGCGGGCAAGGCCATCGCGCTCTGACCAGCG  
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 GCTGAAGATGCTGGCACAATACCGCATCAGTATGGCCGCTACGTGTAGGGGAGCTGGAGCACGTGACC  
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**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

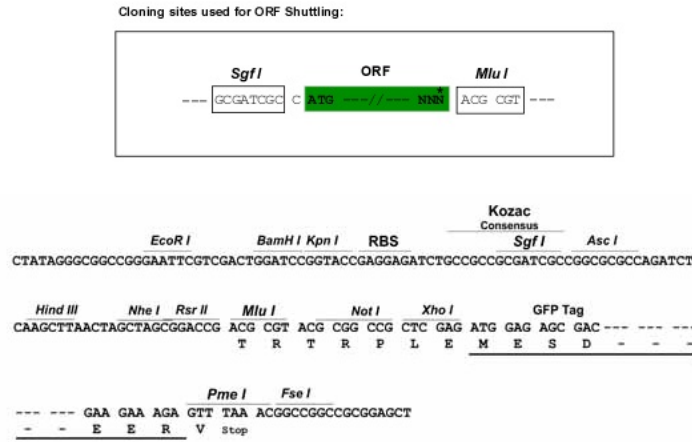
**Protein Sequence:** >RG200922 representing NM\_002626  
 Red=Cloning site Green=Tags(s)

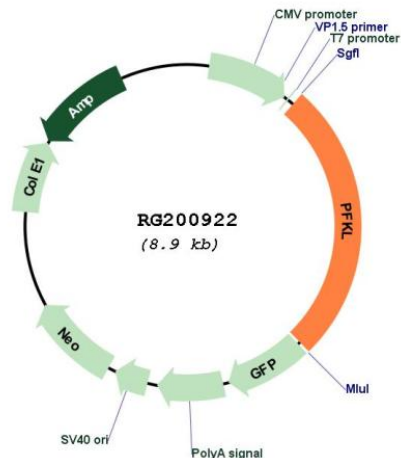
MAAVDLEKLRASGAGKAIGVLTSGGDAQGMNAAVRAVTRMGIYVGAKVFLIYEGYEGLVEGGENIKQANW  
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 HCGYLALVSALASGADWLFIPAEPPEDGWENFMCERLGETRSRGRSLNIIIIAEGAIDRNGKPISSSYVK  
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 GTKRRVFIVETMGGYCGYLATVTGIAVGADAAYVFEDPFNIHDLKVNVEHMTKMKTDIQRGLVLRNEKC  
 HDYTTTEFLYNLYSSEGNGVDFCRTNVLGHLLQQGGAPTFDRNYGKLVKAMLWLSEKLREYRKGGRVF  
 ANAPDSACVIGLKKKAAAFSPVTELKKTDFEHRMPREQWWLSLRLMLKMLAQYRISMAAYVSGELEHVT  
 RRTLMDKGF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_002626

**ORF Size:** 2340 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<a href="#">NM_002626.4</a> , <a href="#">NP_002617.3</a>
RefSeq Size:	2924 bp
RefSeq ORF:	2343 bp
Locus ID:	5211
UniProt ID:	<a href="#">P17858</a>
Cytogenetics:	21q22.3
Domains:	PFK
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]