

## Product datasheet for **MG215696**

### **Pfkfb4 (NM\_173019) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pfkfb4 (NM_173019) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pfkfb4
Synonyms:	C230090D14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG215696 representing NM\_173019  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGTCTCCACGGAACTGACCCAGAATCCCCTGAAGAAGATCTGGATGCCGTACAGCAATGGCAGGC  
 CCGCTCTGCACGCCAGCCAGCGTGGTGTCTGCATGACTAACTGTCCGACACTCATTGTATGGTGGGCCT  
 GCCAGCCCGGGCAAGACCTACATTTCTAAGAAGCTGACGCGGTACCTCAACTGGATTGGCGTGCCTACT  
 CGGGAATCAACGTTGGTCAGTATCGCCGGGACATAGTCAAGACGTACAAATCTTTTGTAGTTTTCTCC  
 CAGACAATGAAGAAGGCCTGAAAATCAGGAAGCAGTGTGCCTTAGCAGCCCTCAGTGATGTCGGAAGTT  
 CCTCAGTGAGGAGGGGGACATGTGGCGTTTTTGTGCAACCAATACGACCCGAGAGCGGAGAGCGATG  
 ATCTTTAACTTTGGAGAACAGAATGGCTACAAGACCTTCTTTGTTGAATCTATCTGTGTGGATCCTGAGG  
 TTGTTGCTGCCAACATCGTGAAGTGAAGCTGGCAGCCCTGACTATGTCAACCGGGACAGCGACGAAGC  
 CACCGAAGACTTCATGAGGCGCATTGAATGCTATGAAAACCTCATATGAGTCGCTGGATGAAGACCTGGAC  
 AGGGATCTGTCTACATCAAGATCATGGACGTGGGCCAGAGCTATGTGGTGAACCGTGTGCTGATCACA  
 TCCAGAGTCGCATCGTTTATTACCTCATGAACATCCATGTGACACCCCGCTCCATCTACCTCGCCGGCA  
 TGGGGAGAGCGAGCTAAACCTCAAGGGCCGGATTGGTGGGGATCCTGGACTGTCCCCCGGGGCCGGGAG  
 TTTTCAAAGCATCTGGCCAGTTCATCAGTGACCAAGAACATTAAGGATCTGAAGTCTGGACGAGCCAGA  
 TGAAGAGGACGATCCAGACAGCCGAGGCGCTGAGCGTCCCTTATGAGCAGTGAAGGTCTCAACGAGAT  
 CGATGCGGGCGTCTGTGAGGAAATGACCTACGAAGAAATCCAGGATCACTACCCGCTGGAGTTTGCCTG  
 CGGGATCAGGACAAGTACCGGTACCGGTACCCGAAGGGTGAGTCCATGAAGACCTGGTGCAGCGCTGG  
 AGCCCGTCATCATGGAAGTGGAGAGGCAGGAAATGTGTTGGTCATTTGCCACCAGGCTGCATGCGCTG  
 CCTCCTGGCCTACTTCTTGACAAGGCAGCTGAAGAGCTGCCCTACCTCAAATGCCCTTGCACACAGTC  
 CTGAAGCTCACACCCGTGGCTTACGTTGTAAAGTGGAGTCCATATTCTGAACGTGGCAGCTGTGAACA  
 CTCACCGAGACAGACCTCAGAATGTAGACATATCCAGGCCTTCAGAGGAAGCCCTGTACAGTCCCTGC  
 TCACCG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG215696 representing NM\_173019  
 Red=Cloning site Green=Tags(s)

MASPRELTQNPLKKIWPYSNGRPALHASQRGVCMTNCPTLIVMVGLPARGKTYISKKLTRYLNWIGVPT  
 REFNVGQYRRDIVKTYKSFEEFLPDNEEGLKIRKQCALAALSDVRKFLSEEGHVAVFDATNTTRERRAM  
 IFNFGQNGYKTFVVESICVDPEVVAANIVQVCLGSPDYVNRDSDEATEDFMRRIECYENSYESLDEDLD  
 RDL SYIKIMDVGQSYVVRVADHIQSRIVYYLMNIHVTPRSIYLCRHGESELNLKGRIGGDPGLSPRGRE  
 FSKHLAQFISDQNIKDLKVVWTSQMKRTIQTAELSVPYEQWVLEIDAGVCEEMTYEEIQDHYPLEFAL  
 RDQDKYRYRYPKGESYEDLVQRLEPVIEMELERQENLVVICHQAVMRCLLAYFLDKAAEELPYLKCP LHTY  
 LKLTVPVAYGCKVESIFLNVAAVNTHRDRPQNVDISRPSEEALVTPAHQ

**TRTRPLE** – GFP Tag – V

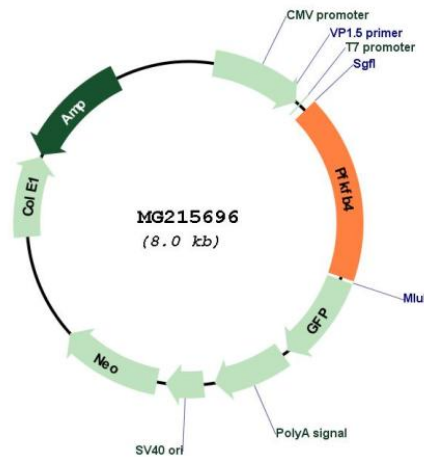
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_173019

**ORF Size:** 1407 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\\_173019.5](#), [NP\\_766607.3](#)

**RefSeq Size:** 3377 bp

**RefSeq ORF:** 1410 bp

**Locus ID:** 270198

**UniProt ID:** [Q6DTY7](#)

**Cytogenetics:** 9 F2

**Gene Summary:** Synthesis and degradation of fructose 2,6-bisphosphate.[UniProtKB/Swiss-Prot Function]