

## Product datasheet for **MG210612**

### **Pfkm (BC005526) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pfkm (BC005526) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pfkm
Synonyms:	Pfka, PFK-M
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG210612 representing BC005526  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACCCATGAAGAGCATCATGCAGCCAAAACCTGGGGATCGGCAAGGCCATCGCCGTGTGACCTCTG  
 GTGGAGATGCCCAAGGTATGAATGCTGCCGT CAGGGCTGTGGTCCGAGTTGGTATCTTCAGGGCGCCCG  
 CGTCTTCTTTGTCCATGAGGGTTACCAAGGCCTGGTGGACGGTGGCGAGCACATCAGGGAGGCCACGTGG  
 GAGAGCGTGTCTATGATGCTTCAGCTGGGTGGCACAGTGATTGGAAGTCCCGATGCAAGGACTTCCGGG  
 AGCGAGAAGGACGACTCCGGGCCGCCACAACCTGGTGAAGCGGGGGATACCAATCTGTGTGCATCGG  
 AGGCGATGGCAGCCTCACTGGGGCTGACACTTCCGTTCCAGAGTGGAGCGACTTGCTGAATGATTTCCAG  
 AAAGACGGGAAGATCACAGCCGAGGAGGCTACAAAGTCCAGCTACCTGAACATCGTGGCCCTGGTTGGCT  
 CAATCGACAATGACTTCTGTGGCACTGATATGACCATTGGTACTGACTCTGCCCTGCACAGGATTGTGGA  
 GATCGTAGACGCCATCACCACCAGGCTCAGAGCCACCAGAGGACGTTTTGTGTTAGAAGTATGGGCCGC  
 CACTGTGGATACCTGGCCCTTGTACCTCTCTGTCTGTGGGGCCGACTGGGTTTTATTCTGAGTGTC  
 CGCCAGACGATGACTGGGAAGAACACCTTTGTCGCCGGCTCAGTGAGACAAGGACCCGTGGCTCTCGTCT  
 CAACATCATATTGTTGCTGAAGGTGCCATCGACAAGAACGGGAAGCCAATCACCTCAGAAGACATCAAG  
 AACCTGGTGGTGAAGCGCCTTGATATGACACCCGGTCACTGTTCTGGGACATGTACAGCGGGTGGGA  
 CACCATCAGCCTTTGACCGGATCCTGGGCAGCAGGATGGGTGTGGAAGCAGTGATGGCACTTTTGGAGGG  
 GACCCAGACACCCAGCCTGTGTGGTGAAGCCTCTCTGGTAACCAGGCTGTGCGTTTCCCTCATGGAG  
 TCGGTGCAGGTGACCAAGACGTGACCAAGGCTATGGATGAGAAGAGATTTGATGAAGCCATTAAGCTGA  
 GAGGCCGGAGCTTCATGAACAACCTGGGAGGTATACAAGCTTCTAGCTCATGTCAGACCCCAAGTCTTAA  
 GGGTGGGTTGCACACAGTGGCCGTGATGAATGTGGGGGCCAGCTGCTGGCATGAATGCCGCTGTTCCGC  
 TCTACCGTGAGGATTGGCCTTATCCAGGCAACCGGGTGTGGTCTGATGATGGCTTTGAGGGTCTGG  
 CCAAAGGTGAGATTGAGGAGGCTGGCTGGAGCTATGTTGGAGGCTGGACTGGTCAAGGTGGTTCCAAACT  
 TGGTACTAAAAGGACTCTCCCAAGAAGAACCTGGAACAGATCAGTGCCAACATAACCAAGTTTAAACATC  
 CAGGGCCTTGTGCATATTGGGGCTTTGAGGCTTACACAGGGGCTTGGAGCTGATGGAAGGCAGGAAGC  
 AGTTTGATGAGCTCTGCATCCCCTTTGTGGTATTCCGGCCACGGTTTCCAATAACGTCCCTGGGTGAGA  
 CTTGAGCATCGGGCTGACACAGCACTGAACACCATCTGCACGACTTGTGACCGAATCAAGCAGTCTGCA  
 GCAGGCACCAAACGTGGGTGTTTATCATCGAGACTATGGGTGGCTACTGTGGCTACCTGGCCACCATGG  
 CAGGGCTGGCCGCTGGGGCTGATGCTGCCTACATTTTTGAGGAACCCCTCACCATTCGCGATCTCCAGGT  
 GAATGTTGAACATCTGGTGCAGAAGATGAAAACAACCTGTGAAGAGAGGCCTGGTGTGAGGAATGAGAAA  
 TGCAATGAGAATACTACTACTGACTTCAATTTTCAACCTGTACTCTGAGGAGGGGAAGGGCATCTTTGACA  
 GCAGGAAGAACGTGCTTGGCCACATGCAGCAGGGTGGAGCCCAACTCCCTTTGACAGGAATTTGCCAC  
 TAAGATGGGTGCTAAGGCTATGAACTGGATGTCTGGGAAAATCAAGGAGAGTTACCGTAATGGACGGATC  
 TTTGCCAACCCCTGACTCAGGCTGCGTTCTGGGGATGCGTAAGAGGGCCCTGGTCTTTCAGCCAGTAA  
 CTGAGCTGAAGGACCAGACAGACTTTGAACACCGAATCCCAAAGAACAGTGGTGGCTGAAGCTGAGGCC  
 AATCCTCAAATCCTAGCCAAGTACGAGATTGATCTGGACACCTCCGACCACGCCACCTGGAGCACATT  
 TCAAGGAAACGGTCTGGAGAAGCCGCCGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210612 representing BC005526  
 Red=Cloning site Green=Tags(s)

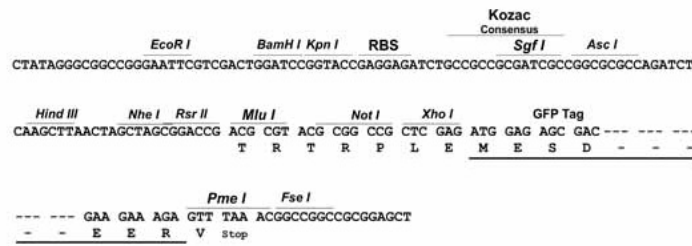
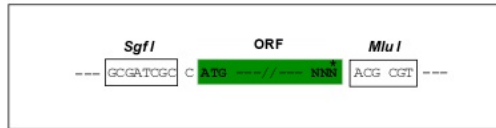
MTHEEHAAKTLGIGKIAVLTSGGDAQGMNAAVRAVVRVGI FTGARVFFVHEGYQGLVDGGEHIREATW  
 ESVSMMLQLGGTVIGSARCKDFREREGRLRAAHNLVKRGITNL CVIGGDGSLTGADTFRSEWSDLLNDFQ  
 KDGKITAEAEATKSSYLNIVGLVGSIDNDFCGTDMTIGTDSALHRIVEIVDAITTTA QSHQRTFFVLEVMGR  
 HCGYLALVTSLSGADWVFIPECPPDDDWEEHLCRRLSETRTRGSRNLIIIVAEGAIDKNGKPITSEDIK  
 NLVVKRLGYDTRVTVLGHVQRGGTSAFDRILGSRMGVEAVMALLEGTPDPACVVVSLSGNQAVRLPLME  
 CVQVTKDVTKAMDEKRFDEAIKLRGRSFMNNWEVYKLLAHVRPPVSKGGLHTVAVMNVGAPAAGMNAAVR  
 STVRIGLIQGNRVLVVDHGFELAKGQIEEAGWSYVGGWTQGGSKLGTKRTL PKNLEQISANITKFNI  
 QGLVIIGGFEAYTGGLELMEGRKQFDEL CIPFVVIPATVSNNVPGSDFSIGADTALNTICTTCDRIKQSA  
 AGTKRRVFI IETMGGYCYLATMAGLAAGADAAYIFEFPFTIRD LQVNVEHLVQKMKTTVKRGLVLRNEK  
 CNENYTTDFIFNLYSEEGKIFDSRKNVLGHMQGGSP TPFDRNFATKMGAKAMNWMGKIKESYRNGRI  
 FANTPDSGCVLGMRKRALVFQPVELKDQTD FEHRIPKEQWWLKL RPIKILAKYEIDLDTSDHAHLEHI  
 SRKRSGEAAV

TRTRPLE - GFP Tag - V

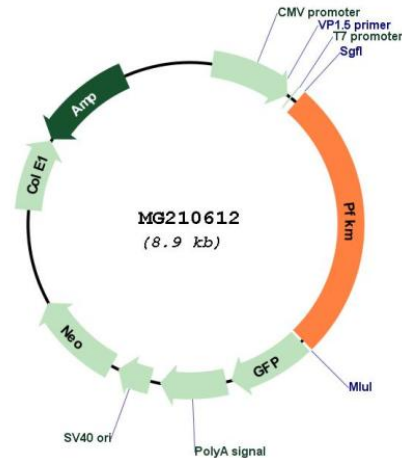
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



## Plasmid Map:



ACCN: BC005526

ORF Size: 2342 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: [BC005526](#), [AAH05526](#)

RefSeq Size: 2943 bp

RefSeq ORF: 2342 bp

Locus ID: 18642

Cytogenetics: 15 F1

**Gene Summary:** Catalyzes the phosphorylation of D-fructose 6-phosphate to fructose 1,6-bisphosphate by ATP, the first committing step of glycolysis.[UniProtKB/Swiss-Prot Function]