

## Product datasheet for **MR231141**

### **Pfkp (NM\_001291071) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pfkp (NM_001291071) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pfkp
Synonyms:	1200015H23Rik; 9330125N24Rik; ATP-PFK; PFK-C; PFK-P
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>MR231141 representing NM\_001291071  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGAGTGACTTGGATTCTTCGAGCTCCAGCGCCTATCCGAAGTACCTGGAGCACCTCTCGGGGATGGCA  
AAGCTATCGGTGTCTGACCAGCGCGGGGATGCCAAGGCATGAATGCTGCTGTCCGCGCTGTGGTGCG  
CATGGGAATCTACACGGGGGCCAAAGTGTACTTTATATATGAGGGTTACCAAGGCTTGGTGGATGGAGGC  
TCCAATATTGTGAAGCCAAATGGGACTGTGTCTCCAGCATTCTGCAAGTGGGTGGGACCATCATCGGTA  
GTGCGCGCTGCAAAGCCTTTCGAAGCCGTGAAGGGCGCCTGAAAGCTGCCTGTAACCTTGGCGCGCTTGGG  
CATAACCAATCTGTGCGTGATCGGCGGGGACGGAAGTCTCACGGGAGCCAACTCTCCGAAAGGAGTGG  
AGCGGACTTCTGGAAGAGCTGGCTCGGAATGGTGATATCGATAACGACACAGTGCAGAAGTATTCCTACC  
TCAACGTGGTGGGTATGGTGGGCTCCATTGACAATGACTTCTGTGGCACAGACATGACCATTGGTACAGA  
TTCAGCCCTGCACCGAATTATTGAAGTTGTTGATGCCATCATGACCACTGCTCAGAGCCACCAGAGGACC  
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ACTGGGTGTTCTTCCGAGTCTCCACCTGAGGAAGATTGGGAGGAAAATATGTGCCTCAAACCTCTCAGA  
GAACCGAGCCCGAAAAAGAGGCTGAATATCATCATTGTGTCTGAAGGAGCAATCGACATGCAAAAATAAG  
CCAATCACCTCTGAGAAAATCAAGGAGCTTGTAGTGAAGAATTTGGGATTTGACACCCGGGTACCATCC  
TTGGGCATGTCCAACGAGGAGGGACCCCATCTGCATTTGACAGGATTTTGGCCAGCCGTATGGGAGTGGA  
GGCTGTCAATGCCTTGTGGAAGCTACCCCGAGACCCAGCCTGTGTGCTGCTACTAAGAGGAAACCAA  
GCAGTGCCTGCCACTGATGGAGTGTGTGCAAATGACCCAGGATGTACAGAAGGCAATGGATGAAAGAA  
GATTTAAGGAAGCCGTGAAACTCCGAGGAAGCGTTTTGAGGGAAACCTGAACACCTATAAGCGCTTGTG  
CATTAAACTGCCTGATGAGAAGATTGTCAAGAGCAACTGCAATGTAGCCGTATCAATGTAGGGGCACCT  
GCTGCCGAATGAATGCAGCCGTGCGCTCTGCTGTTTCGAGTCGGGATTGCAGACGGCCACAAAGTGTG  
CAATCTATGACGGCTTTGAAGGATTCGCCAATGGCCAAATCAAAGAAATCGGCTGGGCAGATGTCGGAGG  
CTGGACTGGACAAGGAGGTCCATTCTTGGGACAAAACGCACCCTACCTGGAAAGTACTTGGAGAAGATC  
GCAGAGCAGATGCATTCCCATAGTATCAATGCCCTTCTGATCATTGGAGGATTTGAGGGTTATCATGGTG  
CCATCATGCTATCTGAGGCTCGAAACAACCATGAGGAGTTTTGTATCCCAATATGTGTTTTGCCTGCCAC  
TATTAGCAACGATATCCCTGGCTCAGACATCAGTATCGGTTGTGATACTGCCCTGAATGTGATTGTCGAG  
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GATACTGTGGCTACCTGGCCAACATGGGGCCCTTGCAGCAGGAGCTGATGCTGCCTACATCTTTGAAGA  
GCCATTTGATATCGGAGATTTGCAGTCCAACGTGCTGCACTTGACAGAGAAAATGAAGACCAGCATCCAG  
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GATTCAGGCAAGCTGGAGTCCTTGACGACCCATGAAGAATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR231141 representing NM\_001291071  
 Red=Cloning site Green=Tags(s)

MSDL DSSSSSAYPKYLEHLSGDGKAIGVLTSGGDAQGMNAAVRAVVRMGIYTGAKVYFIYEGYQGLVDGG  
 SNIVEAKWDCVSSILQVGGTIIIGSARCKAFRSREGRLKAACNLARLGITNL CVIGGDGSLTGANLFRKEW  
 SGLLEELARNGDIDNDTVQKYSYLVVGMVGSIDNDFCGTDMTIGTDSALHRIIEVVDAIMTTAQSHQRT  
 FVLEVMGRHCGYLALVSALTCGADWVFLPESPPEEDWEENMCLKLSENRRARKRLNIIIVSEGAIDMQNK  
 PITSEKIKELVVKNLGFDTRVTILGHVQRGGTPSAFDRILASRMGVEAVIALLEATPETPACVVSLRGNQ  
 AVRLPLMECVQMTQDVQKAMDERRFKEAVKLRGRRFEGNLNTYKRLAIKLPDEKIVKSNCNVAVINVGAP  
 AAGMNAAVRSVAVRVIADGHKMFAYDGFEGFANGQIKEIGWADVGGWTGQGG SILGTRKRLPGKYLEKI  
 AEQMHSHSINALLIIGGFEGYHGAIMLSEARNNHEEFCIPICVLPATISNDIPGSDISIGCDTALNVIVE  
 TCDRIKQSASGTRRVFIIETMGGYCGYLANMGALAAGADAAYIFEFPDIDGLQSNVVHLTEKMKTSIQ  
 RGLVLRNESC SVNYTTDFIYQLYSEEGKGVFDCRKNVLGHMQGGAPSPFDRNFGTKISAKAMEWISAKL  
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 DSGKLESLQHHEEL

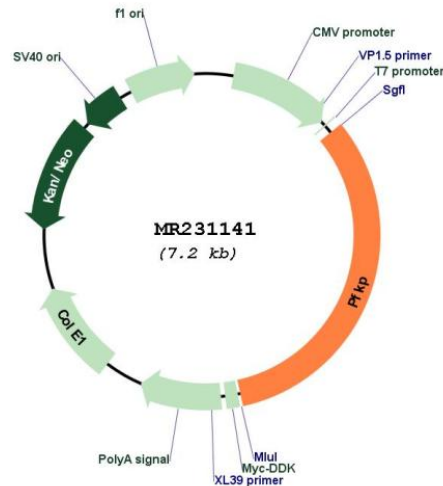
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001291071

**ORF Size:** 2352 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\\_001291071.1](#), [NP\\_001278000.1](#)

**RefSeq Size:** 4033 bp

**RefSeq ORF:** 2355 bp

**Locus ID:** 56421

**UniProt ID:** [Q9WUA3](#)

**Cytogenetics:** 13 A1

**MW:** 86 kDa

**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]