

## Product datasheet for **MR221384**

### **Pkp2 (NM\_026163) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pkp2 (NM_026163) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pkp2
Synonyms:	1200008D14Rik; 1200012P04Rik; AA516617; Pkp2l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR221384 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGTCCTCCGGCTCACTGGCCGAGTGTGGCTACATCCGGACTGTGCTGGGCCAGCAGATCTGGGTC  
 ACCTGGACAGCTCCAGCCTGGCCTTGCCTCCGAGGCCAGACTGAGGCTGGCCGGCAGCAGCGGCCGCGG  
 CGACCCGGCGGCCCGGAGCCAGCGGATCCAGGAGCAGGTGCAGCAGACCTGGCCCGCGGGGCCGAGC  
 TCTGCGGTGAGCGGAACTTACCGAACCAGCAGTGTCCCTGAGTATGTCTACAAGCTACACGTGGTTG  
 AGAATGACTTTGTTGGACGGCAGTCACTGTCACTAGGGACTATGACATGCTTAAGGCTGGAATGACTGC  
 CACTTATGGAAGTCGCTGGGGGAGAGCAGCAGCACAGTACAGTCCAGAAAGTCAGTGGAGGAGAGATCC  
 TGGAGGCAGCCTCTGAGGAGACTTGAGATTTCCCAGATAGCAGCCGGAGAGAGCCACTATGGGCACA  
 GCGAATACAGTATGCCTGGCGGAGCCAGTGGTGCCTGGTGGGCGCCTCACCTGCCACGCTATGCTCG  
 CTCAGAGATCCTGGCCCTACGCCAGGCTGGCACAGCCCGCAGGCCACCTGGGTGCGGGTCATTACAGGAT  
 GCTGTCTTCGACAATGGCCCACTCAAGCCACAATGCCCAACCACCTCCTGGCACCAGCCACAGTGC GG  
 GCAGCTTGTGGAAGAGACCACTGTGCGCGTGAGCCAGGCTCGGCTTCAAAGCACGCAGAGCAGAACCGC  
 CCGCTCCTCTGGCCAGGAGCTCAGTCCGCAGTAGCCTGCGGGAGCCAGGAAGAATGCTGACCACCGCA  
 GGCCAGGCTGCCGTGGGCAGCGGGATGCACATGGGGACAGGAGTGTCTTCGCTGACGCCAGCTGGGGA  
 ATGCAGACATCGAAATGACCTTGGAGAGAGCTGTGAATATGCTGGATGCAGACCATGTACCAGTATCCAA  
 GATCTCTGCCGACGTACCTTACACAGCATGAGAGCTTCAAAAATCTGAAGCAGGAAAAGGGTCAAT  
 CAACTTCGAGGCATCCCTAAGCTTCTACAACGCTCAAACCTCAGAACGAAGATGTTCAACGGGCTGCTT  
 GTGGGGCCTTGAGAACTTGGTATTTGAAGACAATGATAACAAGTTGGAGGTAGCTGAATGAATGAATG  
 GCCTCGGCTACTGCAGGTGCTGAAGCAAACAGAGACTTGGAGACAAAAAAGCAAATAACAGGTTTGCTC  
 TGGAACTGTCTCTAGTGATAAACTCAAGCATCTCATGATAACAGAAGCCTTGCTCACCTTGACAGAGA  
 GTGTCATCATCCCCTTCTCCGGTGGCCTGAAGGCGACTACCCAAAGCCAATGGCTTGCTTGATTTTGA  
 TATATTCTACAATGCTCACTGGATGCCTAAGGAACATGAGCTCTGCTGGCCCCGATGGGAGGAAGATGATG  
 AGAAGGTGTGATGGTCTCATTGACTCATTGGTCCACTATGTCAGAGGAACATTGCAGACTACCAGCCAG  
 ATGATAAGGCCACAGAGAACTGTGTGTCATTCTCATAACCTCTCCTACCAGCTGGAGGCAGAGCTCCC  
 AGAGAAATATTCCAGAGTATCTACATGCAAAACCGGAATATCCAGACTAACAGTAACAAAAGTATTGGG  
 TGTTTTGGCAGCCGAAGTAGGAACTAAAAGAGCAATACCAAGACTTGCAGATGCCAGAGGAAAGGAGCA  
 ATCCACATGGCATTGAGTGGCTGTGGCATTCCATTGTGATAAGGATGATTTGTCCTTAATTGCCAAGAG  
 TACCCGAAACTATACCAAGAGGCATCACTTGGGGCTCTCCAGAACCTCACAGCAGGAGGCGGCCGATA  
 CCCACATTGGTGGCTCGAATGGTTGTCCAAAAGGAAAATGGTCTTCAGCATACACGGAAGATGCTGCACG  
 TGGGTGATCCCAGTGTGAAAAGACTGCGGTCTCCCTGCTGAGGAATTTGTACGGAACTTTCCCTGCA  
 GAATGAAATTGCTAAAGAACTCTACCAGATTTGGTTTCTATAATTCTGACACAGTCCCAAGTACTGAC  
 CTTCTCATTGAAACCACAGCCTCTGCTTGCTATACGTTGAACAATTTAATGCAAAATAGTTACCAGATG  
 CACGAGACCTTCTGAACACCGGAGGTCTGCAGAAAATTATGACCATCAGCATAGGGGAAGGCTATGCCCC  
 CAACAAGGCCAGCAAAGCAGCCTCTGTCTCTTTACTCTCTGTGGGCACATACAGAGCTGCATCACGCC  
 TATAAGAAGGCTCAGTTTAAGAAAACAGACTTTGTCAACAGCCGACTGCCAAAGCCTACCACTCTCTTA  
 AAGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221384 protein sequence  
 Red=Cloning site Green=Tags(s)

MAVPGSLAECGYIRTVLGGQILGHL DSSSLALPSEARLR LAGSSGRGDPAAARSQRIQEQQVQQLARRGRS  
 SAVSGLNLRHTSSVPEYVYKLVVENDFVGRQSPVTRDYDMLKAGMTATYGSRWGAAAQYSSQKSVEERS  
 WRQPLRRLEISPDSSPERAHYGHSEYQYAWRSHVVPGGRLTLPRYARSEILGLRQAGTARRPPGCGSFS  
 AVFDNGPLKPTMPTHTPPGTSHSAGSLLEETT VRVSQARLQSTQSR TARSSWPRSSVRSSLREPRMLTTA  
 GQAAVGS GDAHGDRSVFADAQLGNADIEMTLERAVNMLDADHVPVSKISAAATFIQHESFQKSEARKRVN  
 QLRGIPKLLQLLKLQNEVDQRAACGALRNLFEDNDNKLEVAELNGVPRLLQVLKQTRDLETKKQITGLL  
 WNLSSSDK LKHLMITEALLTLTESV IIPFSGWPEGDYPKANGLLDFDIFYNVTGCLRNMSSAGPDGRKMM  
 RRCDGLIDSLVHYVRGTIADYQPDDKATENCVCILHNL SYQLEAELPEKYSQSIYMQRNIQTNSNKSIG  
 CFGSRSRKLKEQYQDLQMP EERSNPHGIEWLWHSIVIRMYLSLIAKSTRNYTQEASLGALQNLTAGGGPI  
 PTLVARMVVKENGLQHTRKMLHVGDPSVKKTAVSLLRNLSRNL SLQNEIAKETLPDLVSIIPDTPVSTD  
 LLIETTASACYTLNMLQNSYQNARDLLNTGGLQKIMTISIGEGYAPNKASKAASVLLYSLWAHTELHHA  
 YKKAQFKKTDFVNSRTAKAYHSLKD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_026163  
ORF Size: 2388 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:** [NM\\_026163.2](#), [NP\\_080439.1](#)

**RefSeq Size:** 2891 bp

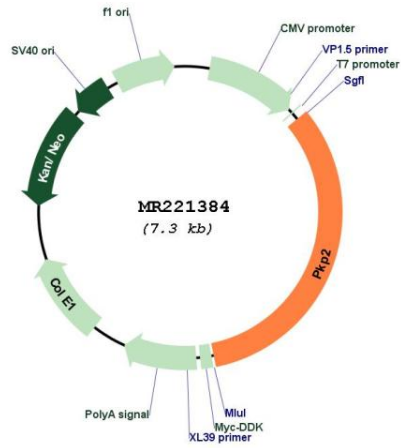
**RefSeq ORF:** 2388 bp

**Locus ID:** 67451

**Cytogenetics:** 16 A2

**MW:** 88.1 kDa

Product images:



Circular map for MR221384