

## Product datasheet for **RR216991**

### **Epm2aip1 (NM\_001271384) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Epm2aip1 (NM_001271384) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Epm2aip1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR216991 representing NM\_001271384  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGATGACGCCAAGAGGATTAGGATGGAAGTCGACGAGGCTCTGGTGTTCGCGCCGAGTGGACCC  
 AGCGTTACCTGGTGGTGGAGCCTGCGGAGGGTGACGGGGCCCTGTGCCTGGTGTGTCGCCGCTGGTTCGC  
 CTCTACTCGGGAACGCGACGTGAGGCGCCACTACGAAGCCGAACACGAATTCTACGAACGGTTTGTAGGG  
 GACGAGGAACGCGCGGCCCTGGTGGAGCGTCTGCGGCAGGGCGACATGTCTTTGGCTGCCGTTCTCACTC  
 CGGAGGAGAGAGCTACGCGGGCAGGCCTCGGCCTCTGCCGCTTCTGGCCTTGAAGGGTCGCGGCTGGGG  
 TGAGGGTGACTTCGTTCCACAGTGCATGGAGGTGTTGCTGAGAGAGGTGCTGCCGGATCACGTCGGCGTC  
 CTGGAAGGCATTGATTTATCTCCAGAGATCACACGGCAGAGAATTCTGAGCATTGACAGCAACCTCCGTA  
 GCCAGCTGTTAACCGAGCCAGGGACTTAAGGCCTATCCCTTGTCTTGGATGACCAGGCTTTTGTGGC  
 CTATGAGAACTACCTGCTGGTTTTTCATCCGTGGCGTCGCGCGCAGCTGGAGGTGCAAGAAGATCTTCTG  
 ACCATTATCAACCTGACTCATCACTTCAGTGTGGGGCTCTCATGTCCGCAATTCGAGGCCCTGCAGA  
 CAGCAGGGCTCAGCTTACAGCGAATGGTTGGACTGACCACGACCCACACCTTGAGGATGATTGGCGAGAA  
 CTCCGGACTGGTCTCCTACATGAGAGAAAAGGCTGTGAGTCCCAACTGTTGGAACGTTATCCACTATTCA  
 GGATTTCTTCACTTGGAACTGTTGAGTCTTACGATGTTGATATTAATCAGATCATAAATACCATCTCCG  
 AATGGGTAGTCATGATTAACCAGAGGTGTTAGGCGGCCAGAGTCCAGTCTTTACTGACTGAGTCTGA  
 ATCAGAGCATGGAGAGAGGTTAATGGACGGTGTGAACTGGCTGAGAAGAGGCAAAACGTTAAAA  
 CTAATATTTTCGTAAGGAAAGAAATCGAGGCGTCTTGGTTTCGGTGGGGCAACAACAGTTCATTCT  
 CAGACAAGCAGTGGCTTTGTGATTTTCGTTTCTTGGTAGACATCATGGATTACCTCCGAGAGATGAGTGA  
 AGAACTGCAAAATCAGTAAAGTCTTTGCTGCTGCCGCTTTGAACGCATCTGCACCTTTGAGGATAAGCTG  
 AGCTCCCTTCAGAGACATATGGAAGAAGTAAATCTAACAGACTTTCCTGCCTTCAGCATAATCGTTGATG  
 AACTCAACAGCAGTAAAGGAAGATCAAAAAATATTTGATCCTGACAGGTATCAAAATGGTATCTCCCG  
 CCTACAAAAAGATTTTGAGAGACATTTCAAGGACCTCAGGTTCAAAAAAGGACTTGGAACTTTTCTCA  
 AATCCATTTAGCTTCAAACCGGAATATGCGCCTATTTCCGTAAGAGTGGAGCTAACAAAACCTCAGGGGA  
 ACACCGACCTGTGAATGAGTACAGAGTCAAAGACTTGGGACAGTTTTATGCTGGACTGTCTGGGGAAGC  
 TTACCAATTATCAAAGGGTGGCTATAAGGTGGCATCCTATTTGATAGTAACCAATCTGTGATAAG  
 GCTTTTGCATATTAACTCGAAACAGCACACGTTGAGCCAGCCACTGACGGACGAGCATCTCCAAGCGC  
 TATTTGAGTTGCCACAACCTGAAATGGATCCCCGTTGGGATGATCTTGTGAGAGAGAAAATGACTCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216991 representing NM\_001271384  
 Red=Cloning site Green=Tags(s)

MWMTPKRIRMEVDEALVFRPEWTQRYLVVEPAEGDGALCLVCRRLVASTRERDVRRHYEAEHEFYERFVG  
 DEERAALVERLRQGDMSLA AVL TPEERATRAGLGLCRFLALKGRGWEGDFVHQMEVLLREVLDPHVGV  
 LEGIDLSP EITRQRILSIDSNLRSQLFNRARDFKAYS LALDDQAFVAYENYLLV FIRGVRDLEVDLL  
 TIINLTHHFSV GALMSAILEALQTAGLSLQRMVGLTTHTLRMIGENSGLVSYMREKAVSPNCWNVIHYS  
 GFLHLELLSSYVDINQIINTISEWVMIKTRGVRRPEFQSLT TESESEHGERVNGRCLNNWLRGKTLK  
 LIFSLRKEIEAFLVSVGATTVHFSDKQWLCDFGLVDIMDYLR EISEELQISKVFAAAAFERICTFEDKL  
 SSLQRHMEEVNL TDFPAFSIIIVDELKQQFKEDQKIFDPDRYQMVISRLQKDFERHFKDLRF IKKDLELFS  
 NPFSFKPEYAPISVRVELTKLQGNLWNE YRVKDLGQFYAGLSGEAYPIIKGVAYKVASLFDNSNI CDK  
 AFAYLTRNQHTLSQPLTDEHLQALFRVATTEM DPRWDDLVRERND S

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001271384

**ORF Size:** 1818 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\\_001271384.1](#), [NP\\_001258313.1](#)

**RefSeq Size:** 7349 bp

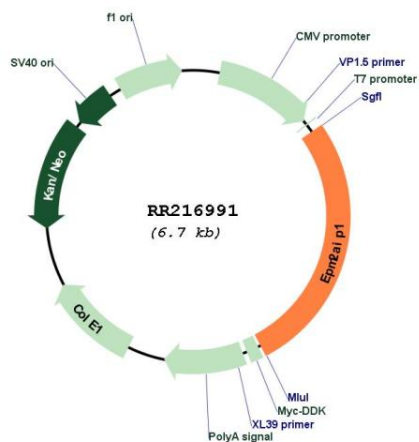
**RefSeq ORF:** 1821 bp

**Locus ID:** 316021

**Cytogenetics:** 8q32

**MW:** 70.1 kDa

Product images:



Circular map for RR216991