

## Product datasheet for **RR213445**

### **Ppat (NM\_057198) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ppat (NM_057198) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ppat
Synonyms:	Atase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR213445 representing NM\_057198  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGAAGTGGAGGAGTCGGGATCCGTGAGGAATGTGGTGTGTTCCGGTGCATCGCTTCTGGAGACTGGC  
 CCACGCAGCTAGATGTGCCACATGTGATCACTCTGGGACTCGTGGGGCTTCAGCACCGAGGTCAGGAGAG  
 CGCTGGTATTGTGACCAGTGATGGGAGTTCAGTGCCTAAATTCAGGGTGCATAAGGGAATGGCCTTGTA  
 AATCATGTTTTTACCGAAGACAATTTGAAGAAATGTATGTCTCAAATCTTGAATCGGACATACGCGGT  
 ACGCCACCACAGGGAAGTGTGAGCTGGAAAATTGCCAGCCGTTTGTGTTGAGACTCTGCATGGGAAAAT  
 AGCTGTGGCCATAACGGAGAGCTGGTGAACGCAGCTCGGCTGAGGAAGAAGCTTCTGCGGCATGGTATT  
 GGGCTTCCACATCCTCCGATAGTGAATGATTACCCAGTACTCGCATATACCCCTCCTCAGGAACAAG  
 ATGATACTCCAGACTGGGTAGCAAGAATTAAGAACTTAATGAAGGAAGCGCCCGCAGCCTACTCCCTGGT  
 CATAATGCACAGGACGTCATTTACGCAGTGCAGATCCATACGGAATCGTCTCTATGCATCGGCCGT  
 CTTATGCCAGTTTCTGACATAAATGACAAAGAGAAAAAGTCTTCAGAGACTGAAGGATGGGTGGTGTCTCT  
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 AATATCCAGACATGGTGTGAGAATCTTGTATATAATTCCAAGGTCTAATGGAGACCCAGTGGCTTTTTGT  
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 TGCCACGCCTGCGGCCCTGGGGTATGCGACAAAGTGTGGGCTGCCATATGTGGAGGTGCTGTGAAGAAC  
 CGGTGTAGGAAGAACCTTCATTACGCCAAACATGAGGCTAAGACAATTGGGGTTGCAAGAAATTCG  
 GCGTGTGCTGACAACTTAAAGGCAAAAGAATTGTTCTCATAGATGATTCCATTGTGAGAGGCAATAC  
 TATCTCACCCATCATAAACTCCTCAAAGAATCCGGTGCAAAGGAGGTACACATTCGAGTCGCTTCGCCA  
 CCAATAAAACATCCGTGCTTCATGGGAATAAACATTCTACAAAAGAAGAGCTTATAGCCAATAAGCCCG  
 AATTTGAGTATCTTGAGAGTACCTTGGAGCAAACAGCGTTGTGTATCTGTGAGTGAAGGACTAGTTTC  
 GTCTGTGCAACAAGAAATAAAGTTCAAGAAGCAGAAAGTAAAAAGCGTGATATCACAATTCAGAAAAAT  
 GGAATGGTCTGGAGTATTTGAGAAGACGGGACACTGTACGGCTTGCTCACTGGCCAGTACCCTGTGG  
 ATCTGGAATGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR213445 representing NM\_057198  
 Red=Cloning site Green=Tags(s)

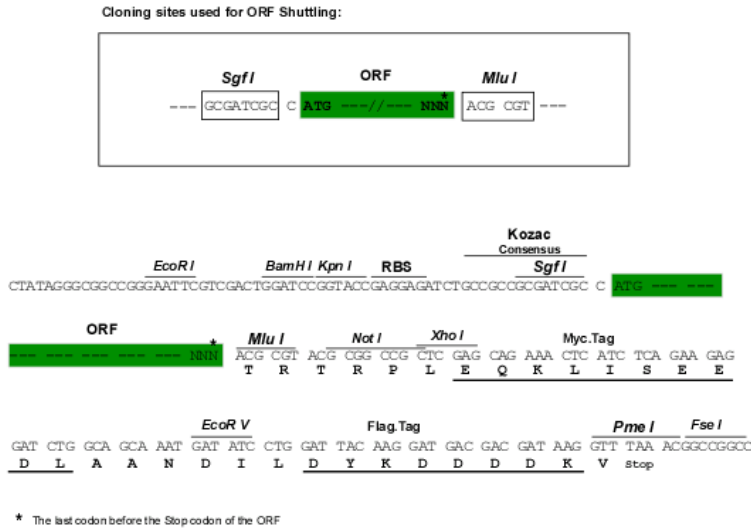
MELEESGIREECGVFGCIASGDWPTQLDVPVHITLGLVGLQHRGQESAGIVTSDGSSVPKFRVHKGMGLV  
 NHVFTEENLKKLYVSNLGIHTRYATTGKCELENCQPFVVELHKGIAVAHNGELVNAARLRKLLRHGI  
 GLSTSSDSEMITQLLAYTPPQEQQDDTPDWVARIKMLMKEAPAAYSLVIMHRDVIYAVRDPYGNRPLCIGR  
 LMPVSDINDKEKKSSETEGWVVSSESCSFLSIGARYCHEVKPGEIVEISRHGVRTLDIIPRSNGDPVAF  
 IFEYVYFARPDMSMFEDQMYYTVRYRCGQQLAVEAPVEADLVSTVPESATPAALGYATKCGLPYVEVLCKN  
 RYVGRTFIQPNMRLRQLGVAKKFGVLSDFKGRIVLIDDSIVRGNTISPIIKLLKESGAKEVHIRVASP  
 PIKHPCFMGINIPTKEELIANKPEFEYLAEYLGANSVVYLSVEGLVSSVQQEIKFKKQKVKKRDITIQEN  
 GNGLEYFEKTGHCTACL TGQYPVDLEW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_057198

ORF Size: 1551 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\\_057198.2](#), [NP\\_476546.1](#)

RefSeq Size: 4065 bp

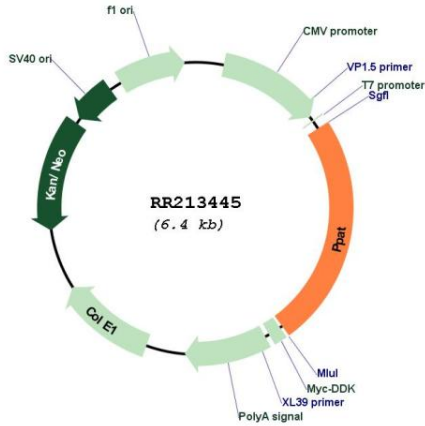
RefSeq ORF: 1554 bp

Locus ID: 117544

UniProt ID: [P35433](#)

**Cytogenetics:** 14p11  
**MW:** 57.4 kDa  
**Gene Summary:** catalyzes the irreversible reaction between 5- phosphoribosyl-1-pyrophosphate, glutamine, and water to form 5P-phosphoribosyl-1-amine, glutamate, and inorganic pyrophosphate [RGD, Feb 2006]

**Product images:**



Circular map for RR213445