

## Product datasheet for **RR207398**

### Atpaf1 (NM\_001107959) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atpaf1 (NM_001107959) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atpaf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR207398 representing NM_001107959 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCAGGCGCGGGCCGGGGCCGAGGCTGACGCGCCAGAGGAGGAGGGGGAGGCGCAGGAGG  
CCATGGCGGCTGTAGTGTCCGCTGCGGGTGGAGCGTGCCCGCAGTCTGCAGGTGGCCGGCCTCTACCG  
AGGCTTGTGTGCGGTGCGCAGCCGCGCCCTGGGGCTGGGGTTCGTGTACCTGCACAGTTGCGCGTGTT  
CCGGTGCAGCGGGGCTCGGGCTGTCTCCGGGGAAACAGACGGCGGTGGGGTCAGCGAGCTGAAAATA  
ACCTTTTCTACGACCGTACCGCGACAAGATCCAGCAGCTGCGCAGGCTGACCCAGCTGCCTTTGAGT  
CCGCCTGGAGAAGCGCAGTGAGTTCGAAAGCAGCCAGTGGGGCACTCCAACAAAGTGATTTTATCAGG  
TGTGTGGAGCAGAAGACAGATGCCTTGGGAAACAGCCTGTGAGCAAAGGATTCCTAAGGACAAGACT  
TCAGTTCACTTCAATGTTGAGATGGTGAAGGACAAAACCGGAGAGGAAATAAAACAGATTTGGCAGCA  
GTATTTTTCAGCAAAAGACACTGTCTACGAGTATTCTAAAGAGAAGTTGATGTGATCTGGAACCGG  
GCTCAGTCTGCCAACATTTCTTTGTGCACTACCAAGAAGGGATGGTTATGAGTTCTTTGATAGGACAAT  
GGACAGGTACAGAGCTCCACTTCACTGCCTTATAAATATTCAGACCCGAGGGGATGCAGCAGCCAGCCA  
GCTGATTTTATACCACTATCCTGAATTAAGGAAGAAAAGGCCATAGTGCTGATGACAGCAGAAAATGGAT  
TCCACATTTCTGAACGTTGCCGAGGCGCAGTGCATCGCCAATCAGTTTCAGCTCTTCTACGCCACTGATC  
GGAAGGAGATCTATGGGCTAGTAGAGACCTTTAACTTCAGACCAATGAGTTCAAATATATGTCTGTCTAT  
CGCTGAATTGGAGCAAAGTGACTTGGAGCAGAACTGAAATGTGCCAGACCCAAGATAAGACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR207398 representing NM\_001107959  
Red=Cloning site Green=Tags(s)

```
MEQARGPGAADAPEEEEEGEAEAMAAVVSAAGGACPAVLQVAGLYRGLCAVRSRALGLGFVSPAQLRVF
PVRRGSLSSGGTDGGGVSELETPFYDRYRDKIQQLRRSDPAAFESRLEKRSEFRKQPVGHSKQSDFIR
CVEQKTDALGKQPVSKGFTKDKTLSSVFNVMVKDKTGEEIKQIWQQYFSAKDTVYAVIPKEKFDVIWNR
AQSCPTFLCALPRRDGYEFFVQWGTGTELHFTALINIQTRGDAAASQLILYHYPELKEEKGIVLMTAEMD
STFLNVAEAQCIANQVQLFYATRKEIYGLVETFNFRPNEFKYMSVIAELQSGLGAELKCAQTQDKT
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001107959

**ORF Size:** 1044 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\\_001107959.1](#), [NP\\_001101429.1](#)

**RefSeq Size:** 3066 bp

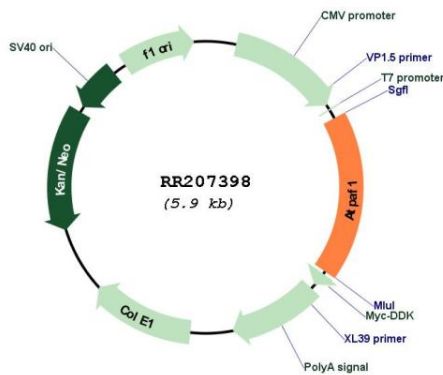
**RefSeq ORF:** 1047 bp

**Locus ID:** 313510

**Cytogenetics:** 5q35

**MW:** 38.6 kDa

**Product images:**



Circular map for RR207398