

## Product datasheet for **RG221120**

### **ATPAF1 (NM\_001042546) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATPAF1 (NM_001042546) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATPAF1
Synonyms:	ATP11; ATP11p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221120 representing NM_001042546 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCTGTGGTGGTGGCGGCTGCGGGTGGCGGGACCGCGGTCTGCAGGTGGCCGGTCTTACC  
GGGGCCTGTGCGCGGTGCGCAGCCGCGCCCTGGGCCTGGGGCTCGTGTACCCGCGCAGCTGCGCGTCTT  
CCCAGTGCGCCCGGCTCGGGCCGGCCGAGGGGGCGCCGACAGCAGCGGGTCCGGGGCCGAGGCCGAG  
CTCCAGGCCAACCTTTCTACGACCGCTACCGGACAAGATCCAGCTGCTGCGCAGGTGAGCCAGCTG  
CTTTTGTAGTCCCGCTGGAGAAACGAGTGAATTCGGAAGCAGCCAGTGGGGCATTCCAGGCAAGTGA  
TTTTATCAAATGTGTGGAACAGAAGACAGATGCCTTGGGAAACAGTCTGTGAACAGAGGATTCCTAAG  
GACAAGACTCTCAGTTCAATCTTTAACATTGAGATGGTAAAAGAAAAAACTGCAGAAGAAATAAACAGA  
TTTGGCAGCAATATTTTGCAGCAAAAGATACAGTCTACGCAATTATTCCTGCAGAAAAGTTTGATTTGAT  
CTGGAACCGGGCTCAGTCTGTCCAACAAATGTTGCTGAGGCACAGTGCATCGCCAACCAAGTTCAGCTC  
TTCTACGCTACTGATCGGAAAGAGACCTACGGTTAGTGGAGACCTTTAACCTCAGACCAATGAGTTCA  
AATATATGTCTATCGCTGAATTGGAGCAAAGCGGACTTGGAGCAGAAGTAAATGTGCCAGAACCA  
AAATAAGACT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG221120 representing NM\_001042546  
 Red=Cloning site Green=Tags(s)

MAAVVVAAGGAGPAVLQVAGLYRGLCAVRSRALGLGLVSPAQLRVFPVPRPGSGRPEGGADSSGVGAEAE  
 LQANPFYDRYDKIQLLRRSDPAAFESRLEKRSEFRKQPVGHSRQGDFIKCVEQKTDALGKQSVNRGFTK  
 DKTLSSIFNIEMVKEKTAEI KQIWQQYFAAKDTVYAVIPAEEKFDLIWNRAQSCPTNVAEAQCIANQVQL  
 FYATDRKETYGLVETFNLRPNEFKYMSVIAELEQSGLGAEKCAQNQNK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001042546

**ORF Size:** 780 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\\_001042546.1](#), [NP\\_001036011.1](#)

**RefSeq Size:** 3936 bp

**RefSeq ORF:** 852 bp

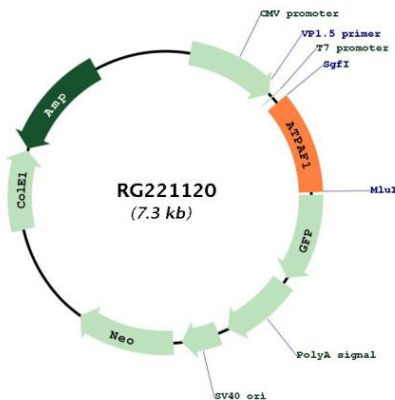
**Locus ID:** 64756

**UniProt ID:** [Q5TC12](#)

**Cytogenetics:** 1p33

**Gene Summary:** This gene encodes an assembly factor for the F(1) component of the mitochondrial ATP synthase. This protein binds specifically to the F1 beta subunit and is thought to prevent this subunit from forming nonproductive homooligomers during enzyme assembly. Alternatively spliced transcript variants have been identified. [provided by RefSeq, Aug 2011]

**Product images:**



Circular map for RG221120