

Product datasheet for **RG209963**

ATPAF1 (NM_022745) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATPAF1 (NM_022745) 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:	>RG209963 representing NM_022745 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCTGTGGTGGTGGCGGCTGCGGGTGGCGCGGGACCGCGGTCTGCAGGTGGCCGGTCTCTACC
 GGGGCTGTGCGCGGTGCGCAGCCGCGCCCTGGGCTGGGGCTCGTGTACCCGCGCAGCTGCGCGTCTT
 CCCAGTGCGCCCGGCTCGGGCCGGCCGAGGGGGCGCCGACGGCAGCGGGTTCGGGGCCGAGGCCGAG
 CTCCAGGCCAACCTTTCTACGACCGCTACCGCACAAGATCCAGCTGCTGCGCAGGTGAGACCCAGCTG
 CTTTTGAGTCCCGCTGGAGAACGCAAGTGAATTCGGAAGCAGCCAGTGGGGCATTCCAGGCAAGGTGA
 TTTTATCAAATGTGTGAACAGAACAGATGCCTTGGGAAACAGTCTGTGAACAGAGGATTCACTAAG
 GACAAGACTCTCAGTTCAATCTTTAACATTGAGATGGTAAAAGAAAAAACTGCAGAGAAATAAAACAGA
 TTTGGCAGCAATATTTTGACGAAAAGATACAGTCTACGCAATTATTCCTGCAGAAAAGTTTGATTTGAT
 CTGGAACCGGGCTCAGTCCTGTCCAACATTTCTATGTGCTCTGCCAAGAAGGGAAGGTTATGAGTTTTT
 GTAGGACAATGGACAGGTACTGAACTCCACTTCACTGCACTTATAAATATTCAGACCCGAGGGGAAGCTG
 CAGCCAGCCAGCTGATTTTATATCACTATCCTGAACCTAAGGAAGAAAAGGCATAGTGCTGATGACTGC
 AGAAATGGATTCCACATTTCTGAATGTTGCTGAGGCACAGTGCATCGCCAACCAAGTTCAGCTCTTCTAC
 GCTACTGATCGGAAAGAGACCTACGGTTAGTGGAGACCTTTAACCTCAGACCAAATGAGTTCAAATATA
 TGCTGTGTCATCGCTGAATTGGAGCAAAGCGGACTTGGAGCAGAACTGAAATGTGCCCAGAACCAAAATAA
 GACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG209963 representing NM_022745
 Red=Cloning site Green=Tags(s)

MAAVVVAAGGAGPAVLQVAGLYRGLCAVRSRALGLVSPAQLRVFPVRPGSGRPEGADGSGVGAEAE
 LQANPFYDRYDKIQLLRSDPAAFESRLEKRSEFRKQPVGHSRQGDFIGCVEQKTDALGKQSVNRGFTK
 DKTLSIFNIEMVKEKTAEI KQIWQQYFAAKDTVYAVIPAEKFDLIWNRAQSCPTFLCALPRREGYEFF
 VGQWTGTELHFTALINIQTTRGEAAASQLILYHYPELKEEKGIVLMTAEMDSTFLNVAEAQCIANQVQLFY
 ATDRKETYGLVETFNLRPNEFKYMSVIAELEQSGLGAEKCAQNQNKT

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022745

ORF Size: 984 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_022745.2](#), [NP_073582.1](#)

RefSeq Size: 4140 bp

RefSeq ORF: 1056 bp

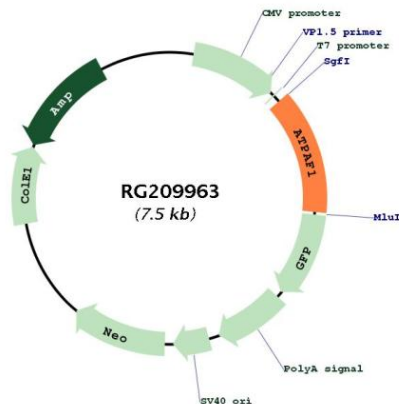
Locus ID: 64756

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 RG209963