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Product datasheet for RG202610

ATPAF2 (NM_145691) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ATPAF2
Synonyms:	ATP12; ATP12p; LP3663; MC5DN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG202610 representing NM_145691
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGAGGAGCTGCCTCCGGCTGCGGGACGGGGGACGCCGTCTCCTGAATCGGCCGGCGGGTGGCCCCA
GCGCTTCTATGAGTCCGGGGCCAACCATCCCGTCTCCAGCCCGGGCTTACGCCCCGCCGACAGAAAGGAA
GAGGTTTTATCAGAATGTCAGCATCACACAGGGTGAAGGTGGCTTTGAGATAAACCTGGACCACAGGAAG
CTGAAAACTCCCCAAGCCAAGCTCTTTACCGTCCCCAGCGAGGCCCTGGCCATTGCAGTGGCTACTGAGT
GGGATTCCCAGCAGGATACCATCAAGTACTACACCATGCACCTGACCACATTGTGCAACACATCATTGGA
CAACCCAACCCAGAGAAACAAGGATCAGCTGATCCGGGCAGCCGTGAAGTTTCTGGACACCGACACCATC
TGCTACAGGGTGGAGGAGCCCGAGACATTAGTGGAACTTCAAAGGAATGAGTGGGATCCAATCATCGAAT
GGGCTGAGAAAAGATACGGCGTGGAGATCAGCTCCTCCACCAGCATAATGGGACCCAGCATCCCTGCCAA
AACTCGGGAGGTGCTCGTCAGCCACCTGGCATCTTACAACACATGGGCTTTACAAGGGATTGAGTTTGTA
GCTGCCCAGCTCAAGTCCATGGTGCTAACCTTGGGCCTGATTGACCTGCGCCTGACAGTGGAGCAGGCCG
TGCTGCTGTCACGCCTGGAGGAGGAGTACCAGATCCAGAAGTGGGGCAACATTGAGTGGGCCCATGACTA
TGAGCTGCAGGAGCTGCGGGCCCGCACCGCCGCCGGCACCCTCTTCATCCATCTCTGCTCCGAGAGCACC
ACAGTCAAGCACAAGCTCCTGAAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

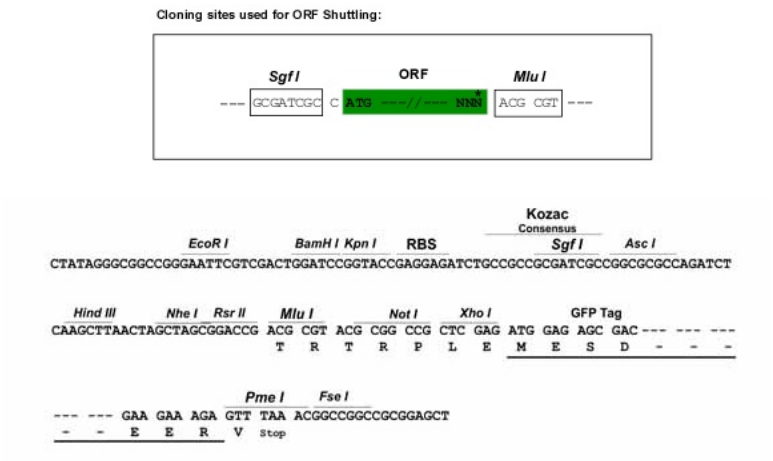
>RG202610 representing NM_145691
Red=Cloning site Green=Tags(s)

MWRSCLRLRDGGRRLLNRPAGGPSASMSPGPTIPSPARAYAPPTERKRFYQNVSITQGEGGFEINLDHRK
LKTPQAKLFTVPSEALAIAVATEWDSQQDTIKYYTMHLTTLCNTSLDNPTQRNKDQLIRAAVKFLDTDTI
CYRVEEPETLVELQRNEWDPIIEWAEKRYGVEISSSTSIMGPSIPAKTREVLVSHLASYNTWALQGIEFV
AAQLKSMVLTLGLIDLRLTVEQAVLLSRLEEEYQIQKWGNIEWAHDYELQELRARTAAGTLFIHLCSEST
TVKHKLLKE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145691

ORF Size: 867 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_145691.4

RefSeq Size: 1552 bp

RefSeq ORF: 870 bp

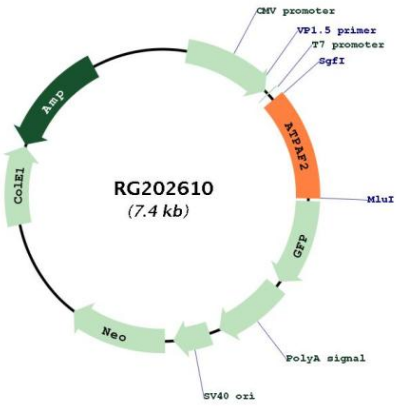
Locus ID: 91647

UniProt ID: Q8N5M1

Cytogenetics: 17p11.2

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 alpha subunit and is thought to prevent this subunit from forming nonproductive homooligomers during enzyme assembly. This gene is located within the Smith-Magenis syndrome region on chromosome 17. An alternatively spliced transcript variant has been described, but its biological validity has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202610