

Product datasheet for RC202610

ATPAF2 (NM_145691) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATPAF2 (NM_145691) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATPAF2
Synonyms:	ATP12; ATP12p; LP3663; MC5DN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202610 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTGGAGGAGCTGCCTCCGGCTGCGGGACGGGGACGCCGTCTCCTGAATCGGCCGGGGGTGGCCCCA
GCGTTCTATGAGTCCGGGGCAACCATCCCGTCTCCAGCCCGGGCTTACGCCCCGCCGACAGAAAGGAA
GAGTTTTATCAGAATGTCAGCATCACACAGGGTGAAGGTGGCTTTGAGATAAACCTGGACCACAGGAAG
CTGAAAACCTCCCAAGCCAAGCTCTTTACCGTCCCAGCGAGGCCCTGGCCATTGCAGTGGCTACTGAGT
GGGATTCCAGCAGGATACCATCAAGTACTACCCATGCACCTGACCACATTGTGCAACACATCATTGGA
CAACCAACCCAGAGAAACAAGGATCAGCTGATCCGGGCAGCCGTGAAGTTTCTGGACACCGACACCATC
TGCTACAGGGTGGAGGAGCCCGAGACATTAGTGGAACCTCAAAGGAATGAGTGGGATCCAATCATCGAAT
GGGCTGAGAAAAGATACGGCGTGGAGATCAGCTCCTCCACCAGCATAATGGGACCCAGCATCCCTGCCAA
AACTCGGGAGGTGCTCGTCAGCCACCTGGCATCTTACAACACATGGGCTTTACAAGGGATTGAGTTTGTA
GCTGCCAGCTCAAGTCCATGGTGTAACTTGGGCTGATTGACCTGCGCCTGACAGTGGAGCAGGCCG
TGCTGTGTACGCCTGGAGGAGGAGTACCAGATCCAGAAGTGGGCAACATTGAGTGGGCCATGACTA
TGAGCTGCAGGAGCTGCGGGCCCGCACCGCCCGGCACCCTCTCATCCATCTGTCTCCGAGAGCACC
ACAGTCAAGCACAAAGCTCCTGAAGGAG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202610 protein sequence
Red=Cloning site Green=Tags(s)

MWRSCRLRLDGGRRLLNRPAGGPSASMSPGPTIPSPARAYAPPTERKRFYQNVSIQTGEGGF E INLDHRK
 LKTPQAKLFTVPSEALAI AVATEWDSQQDTIKYYTMHLTTL CNTSLDNPTQRNKDQLIRA AVKFLD TDI
 CYRVEEPETLVELQRNEWDP I IEWA EKRYGVEISSSTSIMGPSIPAKTREV LVSHLASYNWALQGIEFV
 AAQLKSMVLT LGLIDLRLTVEQAVLLSRLEEEYQIQK WGNIEWAHDYELQELRARTAAAGTLFIHLCSEST
 TVKHKLLKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6557_a03.zip

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

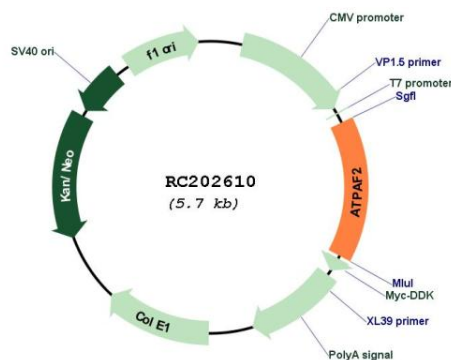
UniProt ID: [Q8N5M1](#)

Cytogenetics: 17p11.2

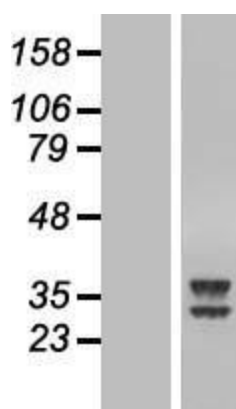
MW: 32.8 kDa

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 RC202610



Western blot validation of overexpression lysate (Cat# [LY407896]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202610 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).