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Product datasheet for RC201346

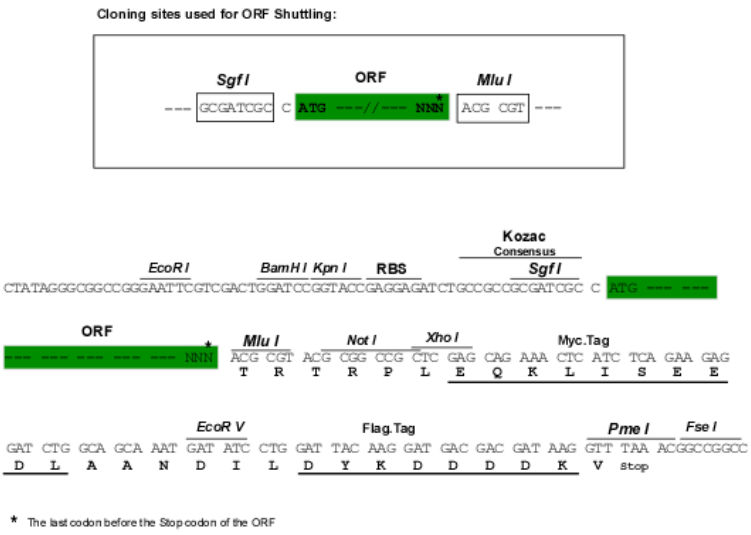
ATP5MPL (NM_004894) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP5MPL (NM_004894) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP5MPL
Synonyms:	6.8PL; C14orf2; MLQ; MP68; PLPM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201346 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCTTCAAAGTATTATTAAAAACATATGGATCCCCATGAAGCCCTACTACACCAAAGTTTACCAGGAGA TTTGGATAGGAATGGGGCTGATGGGCTTCATCGTTTATAAAATCCGGGCTGCTGATAAAAGAAGTAAGGC TTTGAAAGCTTCAGCGCCTGCTCCTGGTCATCAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC201346 protein sequence Red=Cloning site Green=Tags(s) MLQSIIKNIWIPMKPYYTKVYQEIWIGMGLMGFIVYKIRAADKRSKALKASAPAPGHH TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6381_g06.zip
Restriction Sites:	SgfI-MluI

View online »

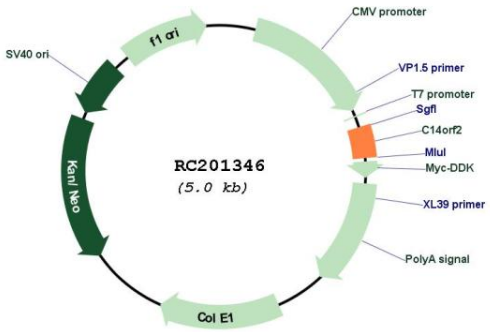
Cloning Scheme:



ACCN:	NM_004894
ORF Size:	174 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_004894.3

RefSeq Size:	673 bp
RefSeq ORF:	177 bp
Locus ID:	9556
UniProt ID:	P56378
Cytogenetics:	14q32.33
Protein Families:	Transmembrane
MW:	6.7 kDa
Gene Summary:	Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation (Probable). Minor subunit required to maintain the ATP synthase population in the mitochondria (PubMed:24330338). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC201346