

Product datasheet for MR201389

Atp5d (NM_025313) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp5d (NM_025313) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Atp5d
Synonyms: 0610008F14Rik; 1500000111Rik; AA960090; AI876556; AU020773; C85518
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201389 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTGCCCGCTCACTGCTTCGTACCCGGGCTGCGCCGCTGATGCTTCAGGCGGTACATACGCCG
 AGGCCCGCTGCACCTGCCCGCCGGGCGGACAGATGTCCTTACCTTTGCTCCCGACGCA
 GGTGTTCTTTGACAGTGCCAACGTCAAGCAAGTGGACGTGCCTACGCTGACTGGAGCCTTTGGCATCTG
 GCATCCATGTCCACACTACAGGTCTACGGCCTGGGCTGGTAGTGGTTCACACAGAAGACGGCACCA
 CGACTAAGTACTTTGTGAGCAGCGGCTCCGTCACTGTGAATGCCGACTCCTCTGTGCAGTTACTAGCTGA
 AGAAGCTGTGACTGGACATGCTGGACCTGGGGCAGCCGGGCAACCTGGAGAAGGGCAGTCAGAA
 CTGTCAGGTGCGGCGGACGAGGCAGCACGGGCTGAGATCCAGATCCGTATTGAGGCCAATGAAGCCCTAG
 TGAAGCCCTGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201389 protein sequence
 Red=Cloning site Green=Tags(s)

MLPASLLRHPGLRRLMLQARTYAEAAAAPAPAAGPGQMSFTFASPTQVFFDSANVKQVDVPTLTGAFGIL
 ASHVPTLQVLRPGLVVVHTEDGTTTKYFVSSGSVTVNADSSVQLLAAEAVTLDMLDLGAARANLEKAQSE
 LSGAADEAARAEIQIRIEANEALVKALE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_025313

ORF Size: 507 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_025313.2](#)

RefSeq Size: 931 bp

RefSeq ORF: 507 bp

Locus ID: 66043

UniProt ID: [Q9D3D9](#)

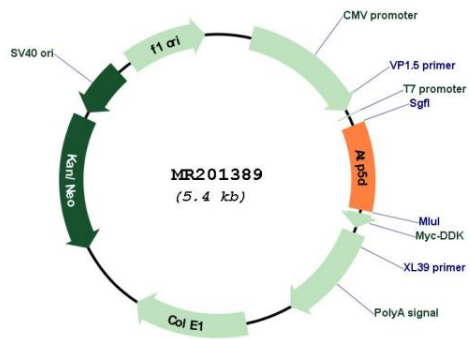
Cytogenetics: 10 C1

MW: 17.6 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 turnover in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F(1) domain and of the central stalk which is part of the complex rotary element. Rotation of the central stalk against the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201389