

Product datasheet for MG200337

Atp5l (NM_013795) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Atp5l (NM_013795) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Atp5l

Synonyms: 4933437C06Rik

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG200337 representing NM_013795

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCCAAGTTCATCCGTAACTTCGCGGAGAAGGCACCGTCGATGGTAGCCGCTGCCGTGACTTACTCGA
AGCCTCGATTGGCCACATTTTGGCACTACGCCAAGGTTGAGCTGGTTCCCCCAACCCCTGCTGAAATCCC
TACAGCTATTCAGAGTGTGAAAAAAAATCATTCAAAGTGCTAAAACTGGTAGCTTCAAACACCCTTACAGTT
AAGGAAGCTGTGCTGAATGGTTTGGTGGCCACTGAGGTGTGGATGTGGTTTTATATCGGAGAGATCATAG

GCAAACGTGGCATTGTTGGCTATGATGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200337 representing NM_013795

Red=Cloning site Green=Tags(s)

MAKFIRNFAEKAPSMVAAAVTYSKPRLATFWHYAKVELVPPTPAEIPTAIQSVKKIIQSAKTGSFKHLTV

KEAVLNGLVATEVWMWFYIGEIIGKRGIVGYDV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



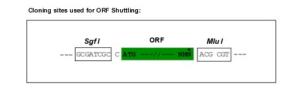
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

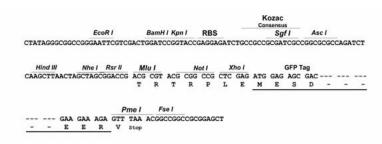
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

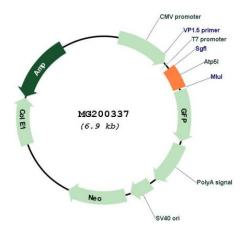


Cloning Scheme:





Plasmid Map:



ACCN: NM_013795

ORF Size: 526 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

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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: <u>NM 013795.5</u>, <u>NP 038823.2</u>

RefSeq Size: 481 bp
RefSeq ORF: 312 bp
Locus ID: 27425
UniProt ID: Q9CPQ8
Cytogenetics: 9 A5.2

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. Part of the complex F(0)

domain. Minor subunit located with subunit a in the membrane.[UniProtKB/Swiss-Prot

Function]