

# **Product datasheet for MR202337**

## Atp5o (NM\_138597) Mouse Tagged ORF Clone

### **Product data:**

**Product Type: Expression Plasmids** 

**Product Name:** Atp5o (NM\_138597) Mouse Tagged ORF Clone

Tag: Myc-DDK Symbol:

Synonyms: ATPO; D12Wsu28e; OSCP

Atp5o

**Mammalian Cell** Neomycin

Selection:

Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) >MR202337 ORF sequence **ORF Nucleotide** 

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCCGCGCCTGCAGCGTCCGGACTGTCCCGACAGGTTCGGAGCTTCAGTACATCTGTGGTCAGGCCCT TTGCCAAGCTTGTAAGGCCCCCTGTTCAGGTCTACGGCATCGAAGGCCGCTATGCAACCGCCCTGTACTC TGCTGCATCTAAGGAGAAGAAGCTGGACCAGGTGGAGAAGGAGCTGCTGCGCGTAGGGCAACTCCTGAAG GACCCCAAAGTGTCTCTGGCTGTTCTGAATCCCTACATCAAGCGCACCGTCAAAGTGAAAAGCCTAAATG ACATCACGAAAAGGGAAAAGTTCTCCCCGCTGACGGCCAACCTCATGAATTTACTTGCTGAAAATGGTCG CCTAGGCAACACCCAGGGTATCATCTCTGCCTTTTCCACCATCATGAGTGTCCACCGCGGAGAAGTGCCG TGCACAGTGACCACAGCATCTCCTCTAGATGACGCTGTTCTCTCTGAGTTAAAGACGGTGCTGAAGAGCT TCCTGAGTCCAAACCAAATACTGAAACTGGAGATCAAGACTGACCCGTCAATCATGGGCGGGATGATTGT CCGAATTGGGGAAAAGTACGTTGATATGTCTGCAAAGAGCAAGATTCAGAAGCTCAGCAAGGCCATGCGG **GAGATGCTC** 

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202337 protein sequence

Red=Cloning site Green=Tags(s)

MAAPAASGLSRQVRSFSTSVVRPFAKLVRPPVQVYGIEGRYATALYSAASKEKKLDQVEKELLRVGQLLK DPKVSLAVLNPYIKRTVKVKSLNDITKREKFSPLTANLMNLLAENGRLGNTQGIISAFSTIMSVHRGEVP CTVTTASPLDDAVLSELKTVLKSFLSPNQILKLEIKTDPSIMGGMIVRIGEKYVDMSAKSKIQKLSKAMR EML

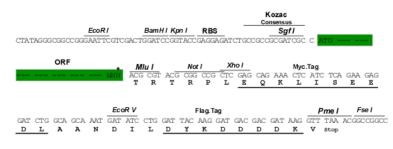
#### TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_138597

ORF Size: 642 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: <u>NM 138597.1, NM 138597.2, NP 613063.1</u>

RefSeq Size: 772 bp
RefSeq ORF: 642 bp
Locus ID: 28080
UniProt ID: Q9DB20

Cytogenetics: 16 C4

MW: 23.4 kDa

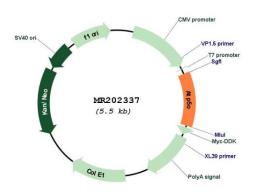
Gene Summary: Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) produces ATP

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 periphera

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 and the peripheric stalk, which acts as a stator to hold the catalytic alpha(3)beta(3) subcomplex and subunit a/ATP6 static relative to the rotary elements.[UniProtKB/Swiss-Prot

Function]

## **Product images:**



Circular map for MR202337