

Product datasheet for **MG202337**

Atp5o (NM_138597) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp5o (NM_138597) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp5o
Synonyms:	ATPO; D12Wsu28e; OSCP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202337 representing NM_138597 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGCCTGCAGCGTCCGGACTGTCCCGACAGGTTCCGGAGCTTCAGTACATCTGTGGTCAGGCCCT
TTGCCAAGCTTGTAAAGCCCCCTGTTCCAGGCTACGGCATCGAAGGCCGCTATGCAACCGCCCTGTACTC
TGCTGCATCTAAGGAGAAGAAGCTGGACCAGGTGGAGAAGGAGCTGCTGCGGTAGGGCAACTCCTGAAG
GACCCCAAAGTGTCTCTGGCTGTTCTGAATCCCTACATCAAGCGCACCGTCAAAGTGAAAAGCCTAAATG
ACATCACGAAAAGGAAAAGTTCTCCCCGCTGACGGCCAACCTCATGAATTTACTTGCTGAAAATGGTCG
CCTAGGCAACACCCAGGGTATCATCTCTGCCTTTTCCACCATCATGAGTGTCCACCGCGGAGAAGTGCCG
TGACAGTGACCACAGCATCTCCTCTAGATGACGCTGTTCTCTCTGAGTTAAAGACGGTGTGAAGAGCT
TCCTGAGTCCAAACAAATACTGAAACTGGAGATCAAGACTGACCCGTAATCATGGGCGGGATGATTGT
CCGAATTGGGAAAAGTACGTTGATGTCTGCAAAGAGCAAGATTCAGAAGCTCAGCAAGGCCATGCGG
GAGATGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202337 representing NM_138597
Red=Cloning site Green=Tags(s)

MAAPAASGLSRQVRSFSTSVVRPF AKLVRPPVQVYVYIEGRYATALYSAASKEKKLDQVEKELLRVGQLLK
 DPKVSLAVLNPYIKRTVKVKS LNDITKREKFSPLTANLMNLLAENGR LGNTQGIISAFSTIMSVHRGEVP
 CTVTTASPLDDAVLSELKTVLKSFLSPNQILKLEIKTDPSIMGGMIVRIGEKEYVMSAKSKIQKLSKAMR
 EML

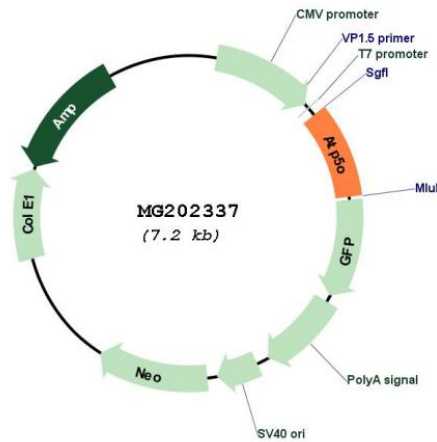
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_138597

ORF Size: 639 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:	<ol style="list-style-type: none">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_138597.2 , NP_613063.1
RefSeq Size:	772 bp
RefSeq ORF:	642 bp
Locus ID:	28080
UniProt ID:	Q9DB20
Cytogenetics:	16 C4
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 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]