

Product datasheet for **MG220908**

Atp5g3 (NM_175015) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp5g3 (NM_175015) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Atp5g3
Synonyms: 6030447M23; Atp5mc3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220908 representing NM_175015
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTTTCGCTGCGCCAAGCTCGCCCGCACCCCGCTCTGATCCGAGCTGGATCCAGAGTTGCATATAGAC
 CAATTTCTGCATCAGTGTTATCTCGGCCAGAGACTAGGACTGGAGAGGGCTCTACAGTTTTTAATGGGGC
 CCAGAATGGTGTGTGTCAGCTGATCCGAAGGGAGTTTCAGACCAGTGAATCAGCAGAGACATTGATACT
 GCTGCCAAATTCATTGGTGCAGGTGCTGCAACAGTAGGAGTTGCTGGTTCTGGTCTGGTATTGGAACAG
 TCTTTGGCAGTCTTATCATTGTTATGCCAGAAACCTTCACTGAAGCAGCAGCTGTTCTCATATGCTAT
 CCTGGGATTTGCCTTGTCTGAAGCTATGGGTCTCTTTTGTGGATGGTTGCGTTCTTGATCTTGTGGC
 ATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG220908 representing NM_175015
Red=Cloning site Green=Tags(s)

MFACAKLARTPALIRAGSRVAYRPISASVLSRPETRTGEGSTVFNGAQNGVCQLIRREFQTSVISRDIDT
 AAKFIGAGAATVGAGSGAGIGTVFGSLIIGYARNPSLKQQLFSYAILGFALSEAMGLFCLMVAFLILFA
 M

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN:	NM_175015
ORF Size:	423 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_175015.3 , NP_778180.1
RefSeq Size:	679 bp
RefSeq ORF:	426 bp

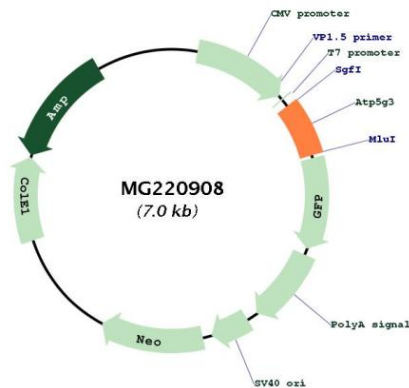
Locus ID: 228033

UniProt ID: [P56384](#)

Cytogenetics: 2 C3

Gene Summary: The protein encoded by this gene is a subunit of mitochondrial membrane ATP synthase, the enzyme that catalyzes ATP synthesis during oxidative phosphorylation. This gene encodes subunit 9, which is present in multiple copies in the transmembrane part of the ATP synthase complex. Phenotype and gene expression profiles suggest correlations between this gene and alcoholism- and obesity-related phenotypes. Alternative splicing results in multiple transcript variants and protein isoforms. [provided by RefSeq, Sep 2014]

Product images:



Circular map for MG220908