

Product datasheet for **MR220908**

Atp5g3 (NM_175015) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp5g3 (NM_175015) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp5g3
Synonyms:	6030447M23; Atp5mc3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220908 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTTCGCTGCGCCAAGCTCGCCCGACCCCGCTCTGATCCGAGCTGGATCCAGAGTTGCATATAGAC
 CAATTTCTGCATCAGTGTTATCTCGCCAGAGACTAGGACTGGAGAGGGCTCTACAGTTTTTAATGGGGC
 CCAGAATGGTGTGTGTCAGCTGATCCGAAGGGAGTTTCAGACCAGTGAATCAGCAGAGACATTGATACT
 GCTGCCAAATTCATTGGTGCAGGTGCTGCAACAGTAGGAGTTGCTGGTTCTGGTGTGTTATTGGAACAG
 TCTTTGGCAGTCTTATCATTGGTTATGCCAGAAACCTTCACTGAAGCAGCAGCTGTTCTCATATGCTAT
 CCTGGGATTTGCCTTGTCTGAAGCTATGGGTCTCTTTTGTGGTGGTTCGTTCTGATCTTGTGGC
 ATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>MR220908 protein sequence Red=Cloning site Green=Tags(s)
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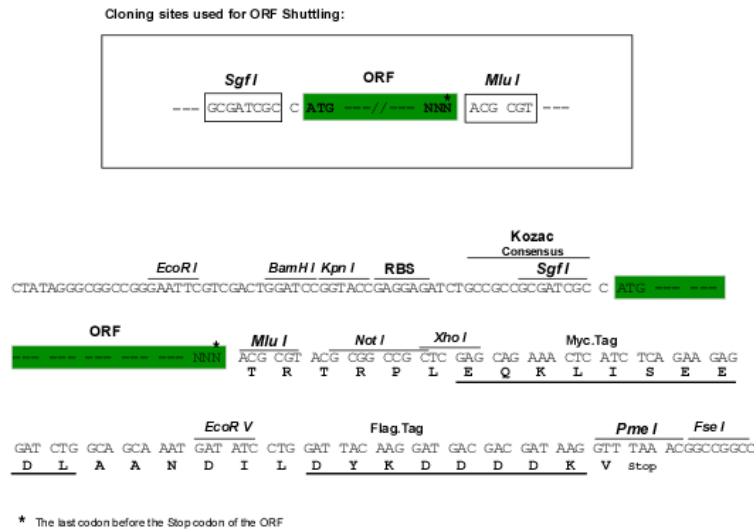
MFACAKLARTPALIRAGSRVAYRPISASVLSRPETRTGEGSTVFNGAQNGVCQLIRREFQTSVISRDIDT
 AAKFIGAGAATVGAGSGAGIGTVFGSLIIGYARNPSLKQQLFSYAILGFALSEAMGLFCLMVAFLILFA
 M

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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:

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: 729 bp

RefSeq ORF: 426 bp

Locus ID: 228033

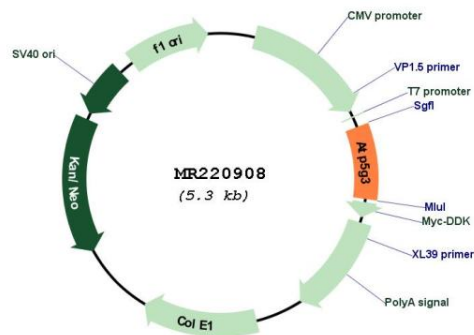
UniProt ID: [P56384](#)

Cytogenetics: 2 C3

MW: 14.7 kDa

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 MR220908