

Product datasheet for **MR228083**

Atp5g3 (NM_001301721) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
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: >MR228083 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGCGCTGCGCCAAGCTCGCCCGACCCCGCTCTGATCCGAGCTGGATCCAGAGTTGCATATAGAC
CAATTTCTGCATCAGTGTTATCTCGGCCAGAGACTAGGACTGGAGAGGGCTCTACAGTTTTAATGGGGC
CCAGAATGGTGTGTGCAGCTGATCCGAAGGGAGTTTCAGACCAGTGTAATCAGCAGAGACATTGATACT
GCTGCCAAATTCATTGGTGCAGGTGCTGCAACAGTAGGAGTTGCTGGTTCTGGTCTGGTATTGGAACAG
TCTTTGGCAGTCTTATCATTGGTTATGCCAGAAACCCCTCACTGAAGCAGCAGCTGTTCTCATATGCTAT
CCTGGGATTGCTTGTCTGAAGCTATGGGTCTCTTTTGTGGTGGTTCCTGATCTTGTGGC
ATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228083 protein sequence
Red=Cloning site Green=Tags(s)

MFACAKLARTPALIRAGSRVAYRPISASVLSRPETRTGEGSTVFNGAQNGVCQLIRREFQTSVISRDIDT
AAKFIGAGAATVGAGSGAGIGTVFGSLIIGYARNPSLKQQLFSYAILGFALSEAMGLFCLMVAFLILFA
M

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_001301721

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.

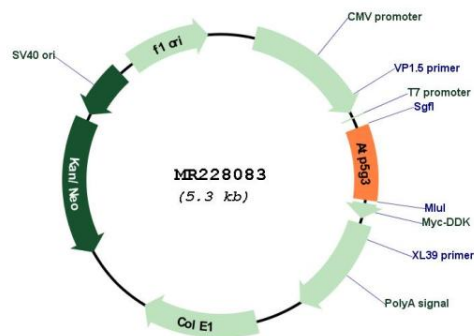
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001301721.1](#), [NP_001288650.1](#)

RefSeq Size:	739 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 MR228083