

Product datasheet for **MC216712**

Afg1l (NM_145743) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Afg1l (NM_145743) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Afg1l
Synonyms:	CG8520; Lace1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216712 representing NM_145743
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCTCCTGGTCGCCCTTGTTACTCTGCCTCCGCCGCGCAGCCGGCTGACTGGGAGAGGTG
 TTGGGTGCGGGGCGGGTCTGTCGAATCCCTCCTCCGGCCCTGGCCCTGGGAAACCCCTGTGGAAAGC
 CTACACAGTCCAGACATCCGAGGTGTACGCCAACAGCCGCTTCTGAGGCCGTTTGAAAGCCTTGGCT
 GTTTGCCACGGGCTCTGGACACTACGACTTTCTGATCAAATCTCAGGAGCTGAGGGAGGATGAACATC
 AAAGAAGAGTCGTTCAAGTGTTCGAGAAGTTACAGGAGGACCTAAAGGATACAGCATAGAGGAAGGAGG
 GCTCTTTTCAAAGCTTTTTCAAGGAACAACTCCAAAGGGCCTCTATGTTTATGGAGACGTTGGTACA
 GAAAAACAATGGTGATGGACATGTTTTATGCATATGTGAAACGAAGAGAAAGAAGCGGGTCCATTTTC
 ACGGCTTCATGCTGGACGTGCACAGAAGGATACACCACCTAAACAGAGTTTGCCAAAAAGGAAGCGGG
 ATTCATGGCTAAGTCATATGACCCGATAGCTCCCATAGCCGAGGAAATCAGTCAAGAACTCTCTCCTA
 TGTTTTGATGAATTTAGGTCACGACATCGCCGACGCCATGATTCTGAAACAGCTTTTTGAAAATCTGT
 TCAAAAACGGGGTCGTCGTTGTGGCAACATCCAACAGACCACCGAAGATCTCTATAAAAATGGACTCCA
 GAGGGCTAACTTTGTGCCATTTATAGCTGTCTGAAGGAATATTGTGATACGCTCCAGCTGGATTCTGGG
 GTAGATTACCGGAAAAGGAACTCGCCCTGCAGGAAAATCTACTACCTACAAGTGAAGCTGATGTGG
 AGGCCGTCGTGGATAAGTTGTTGATGAGCTGGCTCAGAAACAAAATGATTTAAGTACCCCAAGGATTCT
 GAAAGTCAAGGCAGAGAGCTGCGGCTGAATAAAGCCTGTGGAAGCGTTGCCGACTGCACATTTGAAGAG
 CTGTGTGAGAGACCACTGGAGCAAGTACTATTTGGAATTATCAAAGAATTTTGATACGGTAATCATA
 GAAACATTCGCGAGTTTTCACTGGCAAAGAGGACGCAAGCAGAGAAGATTCATCACTCTCATTGATAACTT
 CTATGACTTCAAGGTGCGCATTATCTGCTCCGCTTTCAGCTCCGATCTCAAGCTTGTTCGCATCAGCAT
 CAGGACAGTGAGTCGGACCAAAGCAGAATCCTGATGGATGATTTGGGGCTGAGCCAGGACTCAGCCGGGC
 TCTCCATGTTTACGGGGAGGAGGAAATCTTCGCCTTTCAGCGCACCATTTCCCGCTCACAGAGATGCA
 GACGGAGCAGTACTGGATTGAAGGGACAGAAGCAGGAAG**TAA**

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_145743

Insert Size: 1443 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [NM_145743.2](#), [NP_665686.2](#)

RefSeq Size: 2530 bp

RefSeq ORF: 1443 bp

Locus ID: 215951

UniProt ID: [Q3V384](#)

Cytogenetics: 10 22.88 cM

Gene Summary: Putative mitochondrial ATPase. Plays a role in mitochondrial morphology and mitochondrial protein metabolism. Promotes degradation of excess nuclear-encoded complex IV subunits (COX4I1, COX5A and COX6A1) and normal activity of complexes III and IV of the respiratory chain. Mediates mitochondrial translocation of TP53 and its transcription-independent apoptosis in response to genotoxic stress.[UniProtKB/Swiss-Prot Function]