

Product datasheet for **RN201385**

Afg1l (NM_001037656) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Afg1l (NM_001037656) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Afg1l
Synonyms:	Lace1; MGC124994
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN201385 representing NM_001037656
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCCTCCTGGTCGCCCTTGTTACCTGCGCTCCGCGCGCGTAGCCGGCTGACTGGGAGAGGTG
 TTGGGTGCGGGGCGGGTTCATCGCAATCTTCCCTCCGGCCCTGGCCCTAGGAAACCCCTTTGGAAAGC
 CTACACAGTCCAGACATTGGAGGTGTGCGCCAAACAGCCGCTCCGAGGCCATTTCGAGAGCTTTGGCT
 GTTTGCCACGGGCTCTGGCCACTACGACTTTCTGATCAAAGCTCAGGAGCTGAAGAACGATGAACATC
 AAAGAAGAGTCGTTCAAGTGTTCGAGAAGTTACAGGAGGACCTAAAGGATACAACATAGAGGAAGGAGG
 GCTCTTTTCAAAGCTCTTTTCAAGGAACAAACCTCAAAGGGCCTGTATGTTTATGGAGACGTTGGTACG
 GGGAAAACAAATGGTGATGGACATGTTTTATGAGTATGTGGAAGTGAAGAGCAAAGGCGGGTCCATTTTC
 ACGGCTTCATGCTAGATGTGCACAAAAGGATACACCGCCTAAACAGAGTTTGCCGAAAAGGAGGTGGG
 ATTCATGGCTAAGTCGTACGACCGATAGCGCCATAGCGGAGGAAATCAGCCAAGAGGCTAGTCTCCTG
 TGTTTTGATGAATTTCAAGTCACTGACATCGCTGACGCCATGATTCTGAAACAGCTTTTAAAAATCTGT
 TCAAAAACGGGGTCGTCGTTGTGGCAACGTCACACAGACCACCGAAGATCTCTATAAAAACGGACTCCA
 GAGGGCTAACTTTGTGCCATTTATAGCTGTCTGAAGGAATATTGCAATACGGTCCAGCTGGATTCTGGG
 GTAGATTATCGGAAAAGGGAACCTACCCCTGCCGGGAACTCTACTACCTACAAGCGAGGCTGATGTGG
 GGACTGTCATGGATAAGTTGTTTGTAGTGGCTCAGAAAACAAACGATCTAACTAGCCCAAGGATTCT
 GAAAGTCAAGGCAGAGAGCTGCGGTGAATAAAGCCTGTGGAACCGTCGCCGACTGCACGTTTGGAGG
 CTGTGTGAGAGACCACTCGGAGCAAGTACTATTTGGAATTATCCAAGAATTTTGATACGGTAATCATA
 GGAACATTCACAGTTTTCTCTGGCAAAGAGGACGCAAGTGCAGATTCACTCTCATTGCAACTT
 CTACGACTTCAAGGTGCGTATCATCTGCAGCGCCTCGGTCCCATCTCCAGCCTGTTTGTGTATCAGCAT
 CAGGACAGCGAGTCGGACAAAGTCGGGTGCTGATGGATGACTTGGGGCTGAGCCAGGACTCAGCGGGAC
 TCTCCATGTTTACCGGGGAGGAGGAAATCTTCTCTTTCAACGCACTCTTCCCGCCTCACAGAGATGCA
 GACCGAGCAGTACTGGATTGAAGGGGACAGAAGCAGGAAG**TAA**

ACGGTACGGCGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001037656

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_001037656.1](#), [NP_001032745.1](#)

RefSeq Size: 2045 bp

RefSeq ORF: 1443 bp

Locus ID: 502479

UniProt ID: [Q32PX9](#)

Cytogenetics: 20q13

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]