

Product datasheet for **RG202313**

AFG1L (NM_145315) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AFG1L (NM_145315) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AFG1L
Synonyms:	AFG1; c222389; LACE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG202313 representing NM_145315
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCTCCTGGTCGCTCTTGTTACCTGCGCCCTTAGCACAGAGCCCGCTGAGAGGGAGATGTG
 TTGGGTGCGGGGCTGGGCCGCCGCTCTCGCTCCTCTGGCCACCGCCCTGGGAAGCCCTTTTGGAAAGC
 CTATACGGTTCAGACATCCGAGAGCATGACCCCACTGCCACTTCAGAGACTTATTTGAAAGCTTTGGCC
 GTTTGCCATGGACCTCTGGACCACTATGATTTTCTGATCAAAGCTCATGAGCTAAAGGATGATGAACATC
 AAAGAAGAGTCATACAGTGTTCGAGAAATTACACGAGGACCTTAAAGGATACAATATAGAGGCAGAAGG
 CCTTTTTTCAAAGCTTTTTTCAAGGAGCAAACTCCAAGGGCCTGTATGTTTATGGAGATGTTGGTACA
 GGAAAAACAATGGTGATGGACATGTTTTATGCTTATGTGAAATGAAGAGGAAAAACGGGTTCATTTTC
 ATGGTTTCATGCTAGATGTGCACAAAAGAATACATCGCCTTAAACAGAGTTTGCCAAAAAGGAAACCAGG
 ATTCATGGCTAAATCATATGACCAATAGCTCCCATAGCCGAAGAAATCAGCGAAGAAGCATGTCTCCTA
 TGTTTTGATGAATTTAGGTCACTGACATTGCTGATGCCATGATTCTGAAACAGCTTTTTGAAAATCTGT
 TCAAAAACGGGGTCGTCGTTGTGGCAACATCCAACAGGCCACCGGAAGATCTCTATAAAAATGGACTCCA
 AAGAGCTAACTTTGTACCATTCATAGCAGTCTTGAAGGAATATTGTAATACAGTCCAGCTAGATTCTGGG
 ATAGATTACCGGAAAAGGAACTTCCTGCTGCAGGAAACTCTACTACCTCACAAGTGAAGCTGATGTGG
 AGGCTGTCATGGATAAGTTGTTTATGAGCTGGCTCAGAAACAAAATGATTTAAGTAGACCAAGGATTCT
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 CTGTGTGAGAGACCACTGGAGCCAGTGACTATTTGGAATATCAAAGAATTTTGATACAATATTTTAC
 GAAACATTCGCAATTTACTCTGCAACAGGACTCAAGGTCGAAGATTCAACTCTCATCGATAACTT
 TTATGATCTCAAGGTGCGTATAATTTGCTCTGCTCGACTCCTATATCAAGCTTATTTTGCATCAACAT
 CATGACAGTGAGTTGGAGCAAAGCAGAATACTGATGGATGATTTGGGGCTGAGCCAGGATTCAGCAGAAG
 GACTCTCCATGTTTACCGGAGAAGAGGAAATCTTTGCATTTAGCGCACAAATTTCCCGACTCACGGAAAT
 GCAGACTGAACAGTACTGGAATGAAGGAGACAGAACCAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

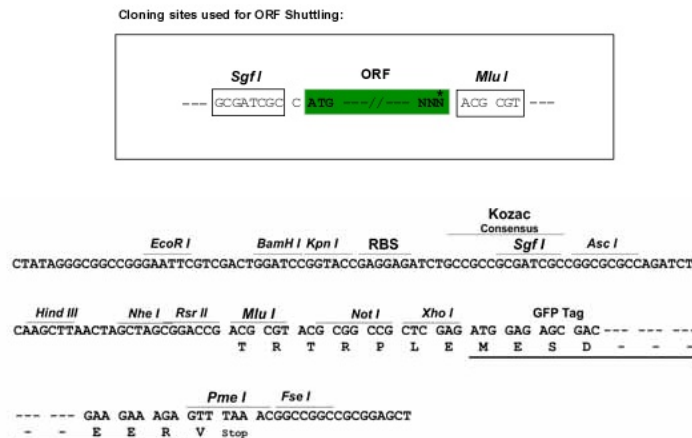
>RG202313 representing NM_145315
 Red=Cloning site Green=Tags(s)

MAASWLLVTLRPLAQSPLRGRCVCGAWAAALAPLATAPGKPFWKAYTVQTSSEMTPTATSETYLKALA
 VCHGPLDHYDFLIKAHELKDDEHQRRVIQCLQLHEDLKGYNIEAELFSKLFSSKPPRGLYVYGDVGT
 GKTMMVDMFYAYVEMKRKKRVHFGFMLDVHKRIHRLKQSLPKRKPFGMAKSYDPIAPIAEIEIEEACLL
 CFDEFQVTDIADAMILKQLFENLFKNGVVVATSNRPEDLYKNGLQRANFVPFIAVLKEYCNTVQLDSG
 IDYRKRELPAAGKLYLTSEADVEAVMDKLFDELAQKQNDLTRPRILKVQGRELRNKAACGTVADCTFEE
 LCERPLGASDYLELKNFDTIFLRNIPQFTLANRTQGRRFITLIDNFYDLKVRIICSASTPISSFLHQH
 HDSELEQSRILMDDLGLSQDSAEGLSMFTGEEIFAFQRTISRLEMTQTEQYWNEDRTKK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_145315

ORF Size: 1443 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_145315.5](#)

RefSeq Size: 2262 bp

RefSeq ORF: 1446 bp

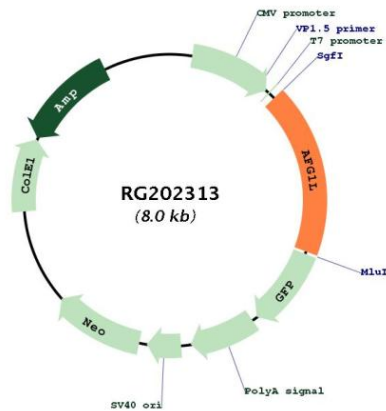
Locus ID: 246269

UniProt ID: [Q8WV93](#)

Cytogenetics: 6q21

Gene Summary: This gene encodes a mitochondrial integral membrane protein that plays a role in mitochondrial protein homeostasis. The protein contains a P-loop motif and a five-domain structure that is conserved in fly, yeast, and bacteria. It functions to mediate the degradation of nuclear-encoded complex IV subunits. Two conserved estrogen receptor binding sites are located within 2.5 kb of this gene. Polymorphisms in this gene have been associated with bipolar disorder. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2016]

Product images:



Circular map for RG202313