

Product datasheet for **SC123228**

AFG1L (NM_145315) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AFG1L (NM_145315) Human Untagged Clone
Tag:	Tag Free
Symbol:	AFG1L
Synonyms:	AFG1; c222389; LACE1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_145315 edited
CGGAAGGACGGGAGGGACGCGGAGTGCAGCCCGCCCATGTGGCTACTGGAGGTCACGTTCC
CCTAACTGATCCCTTGGTTCTCTCGGGTGGAGCCTTCAGCGTGCACGGCGGGGTTTGACT
TTGCCACCGTCTCTCTTCTGGGTTCCAATAAAGTTTTCTCTTCTCCTCGTACGGAG
TTCAAGATGGCGGCCTCTGGTCTGCTTTGGTTACCCTGCGCCCTTAGCACAGAGCCCG
CTGAGAGGGAGATGTGTTGGGTGCGGGGCTGGCCGCGCTCTCGCTCCTCTGGCCACC
GCCCTGGGAAGCCCTTTTGGAAAGCCTATACGGTTCAGACATCCGAGAGCATGACCCCA
ACTGCCACTTCAGAGACTTATTTGAAAGCTTTGGCCGTTTGCCATGGACCTCTGGACCAC
TATGATTTTCTGATCAAAGCTCATGAGCTAAAGGATGATGAACATCAAAGAAGAGTCATA
CAGTGTGGCAGAAAATTACACGAGGACCTTAAAGGATACAATATAGAGGCAGAAGGCCTT
TTTTCAAAGCTTTTTTCAAGGAGCAAACCTCCAAGGGCCTGTATGTTTATGGAGATGTT
GGTACAGGAAAAACAATGGTGATGGACATGTTTTATGCTTATGTGAAATGAAGAGGAAA
AAACGGGTTCAATTTTATGTTTATGCTAGATGTGCACAAAAGAATACATCGCCTTAAA
CAGAGTTTGCCAAAAGGAAACCAGGATTCATGGCTAAATCATATGACCCAATAGCTCCC
ATAGCCGAAGAAATCAGCGAAGAAGCATGTCTCCTATGTTTTGATGAATTCAGGTCCT
GACATTGCTGATGCCATGATTCTGAAACAGCTTTTTGAAAATCTGTTCAAAAACGGGGTC
GTCGTTGTGGCAACATCCAACAGGCCACCGAAGATCTCTATAAAAATGGACTCCAAAGA
GCTAACTTTGTACCATTATAGCAGTCTTGAAGGAATATTGTAATACAGTCCAGCTAGAT
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GCCTGTGGAACCGTTGCCGACTGCACATTTGAAGAGCTGTGTGAGAGACCACTTGGAGCC
AGTGACTATTTGAACTATCAAAGAATTTTATACAATATTTTACGAAACATTCGGCAA
TTTACTCTGGCAAACAGGACTCAAGGTGCAAGATTCATAACTCTCATCGATAACTTTTAT
GATCTCAAGTGCGTATAATTTGCTCTGCGTCTGACTCCTATATCAAGCTATTTTTGCAT
CAACATCATGACAGTGAGTTGGAGCAAAGCAGAATACTGATGGATGATTTGGGGTGGAGC
CAGGATTCAGCAGAAGGACTCTCCATGTTTACCGGAGAAGAGGAAATCTTGCATTTTCCG
CGCACAATTTCCCGACTCACGGAATGCAGACTGAACAGTACTGGAATGAAGGAGACAGA
ACCAAGAAGTAACTGCCACTTTTGCATAAATAAACTCTAGACAAATGGTTAACGCAGGC
AGAACTCCTTATTTGGGACTTGAAGGAATCATTTTCTCATCATTAAATATGCACTTTGT
CCTCTGGACATTTTAACTAAAATTTGCTCTCAAGGATCTAGTGGATTAGTAAGTTAAAC
ACTTAACATTTTTTAGGTCTGCTTTTTCTATTTGGCCTTATTTCTGCACCATGAAATTA
AAATCATCTCATTCTGAAGATGAATGTAGGACCAGACATTTTAGCTTACATTAACCA
CCTGAATGAACCTTGAATGCACAAGTAAATGCAAGACGCTCTGGATACCTTCAAGCTTTGG
CTGCATGGTGGTGGCATGTTAGAAAATACATCTTTTATAATGGGGGAAGAATGCCCTATGT
TTCAATTCAAAACAAAGACAGTTTTCCAATCTGATATAAACTAAAAGGGATAATTTTTA
GAATATGGGCTTATATGTGGTTTTTTTTTTTTGGTTATGAATTACAGTAAATCTCCCAGG
CCTTCAGATTTTACATAATGGAAGAATATGTTTTTAAACCCTGAGATCAAGTTTAGTAGG
CAGGACTTGATCTCAAGTGGTCACAAAGTTTTCTAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_145315 unedited NGTTTTTATTTGTATACGATCATATAGGCGGCCCGCGATTCCCGGNAATCGTCGACCCA CGCGTCNCGCGGAAGACGGGAGGGCACGGGAGTGCAGCCCGCCATGTGGCTACTGGAGG TCAGTTCCCTAACTGATCCCTTGGTCTCTCGGGTGGAGCCTTCAGCGTGCACGGCGGG GTTTGACTTTGCCACCGTCTCTCTTCTGGGTCCAATAAAGTTTTCTCTCCTCCTCCTC GTACGGAGTTCAAGATGGCGGCCTCCTGGTCGCTTTGGTTACCCTGCGCCCTTAGCAC AGAGCCCGCTGAGAGGGAGATGTGTTGGGTGCGGGGCTGGGCCCGCGCTCTCGTCCTC TGGCCACCGCCCTGGGAAGCCCTTTTGAAAGCCTATACGGTTCAGACATCCGAGAGCA TGACCCCAACTGCCACTTCAGAGACTTATTTGAAAGCTTTGGCCGTTTGCCATGGACCTC TGGACCACTATGATTTTCTGATCAAAGCTCATGAGCTAAAGGATGATGAACATCAAAGAA GAGTCATACAGTGTTCAGAAAATTACACGAGGACCTTAAAGGATACAATATAGAGGCAG AAGGCCTTTTTCAAAGCTTTTTCAAGGAGCAAACCTCCAAGGGGCTGTATGTTTATG GAGATGTTGGTACAGGAAAAACAATGGTATGGACATGTTTTATGCTTATGTGAAATGA AGAGGAAAAAACGGTTCATTTTCATGGTTTCATGCTAGATGTGCACAAAAGAATACATC GCCTTANACAGAGTTTGCCAAAAAGGAAACCAGGATTCATGGCTAAATCATATGACCCAA TAGCTCCCATAGCCGAAGNAATCAGCGAAGAAGCATGTCTCCCTATGTTTATGTAANTTC ANGTCCTGACATTGCTGATGCCCN
Restriction Sites:	Please inquire
ACCN:	NM_145315
Insert Size:	2271 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:	<ol style="list-style-type: none"> 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_145315.3 , NP_660358.2
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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.