

Product datasheet for **SC115855**

AFG3L2 (NM_006796) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AFG3L2 (NM_006796) Human Untagged Clone
Tag:	Tag Free
Symbol:	AFG3L2
Synonyms:	OPA12; SCA28; SPAX5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_006796, the custom clone sequence may differ by one or more nucleotides

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ATGGCGCACCCGCTGTTTGC GGCTGTGGGGCCGGGGCGGCTGCTGGCCCCGCGGCCTACAGCAGCTCCTCG
TGCTTGGCGGCGTGGGCCGGGCGAGCAGCCCTGCCTCCGGACGCTTTACCGATTTGTTACAACCTCAAGC
AAGGGCCAGCAGAAATTCCTTTTGACAGATATAATTGCTGCTTATCAAAGATTCTGTTCTCGACCCCA
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AAGGATTTCAAGATGTTCTTCTCTGGACTGCTGTTCTGGGGTGGAGTCATGTTTTACTTGCTGCTCA
AGAGATCCGGGAGAGAAATCACTTGAAGGACTTTGTCAATAACTATCTTTCAAAGGAGTAGTAGACAG
ATTGGAAGTCGCAACAAGCGTTTTGTTGAGTGACCTTTACACCAGGAAAACTCCTGTTGATGGGCAA
TACGTTTGGTTTAAATATTGGCAGTGTGGACACCTTTGAACGGAATCTGGAACCTTACAGCAGGAATTGG
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GCTGCCTACGGTGCCTCATCATCGCTTCTTGTCTACACCATCAGAAGAGGGCCTGCTGGCATTGGCCGG
ACAGGCCGAGGGATGGGCGGACTCTTCACTGTCGGAGAAAACCACTGCCAAGGTCTTAAAGGATGAAATTG
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TTTGGAGGGCAGAGTGAGCAGGAGAACAACACTCAACCAGCTGCTGGTGGAGATGGATGGTTTTAATAACA
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CTCCGACCCTAAAACCTGGACAGTACCCTGGAGAAGGATAAATTGGCAAGAAAACCTGGCATCTTTAACTC
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AGATTCCATAAATCAGAAACACTTTGAACAGGCAATTGAACGAGTGATTGGTGGCTTAGAGAAGAAAACG
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ATCTGGAGCACGCAGACCCGCTTTTAAAGGTATCCATCATCCACGTGGCAAAGGACTAGGTTATGCTCA
GTATTTACAAAAGAACAATACCTCTATACCAAAGAGCAGCTCTTGGATAGGATGTGTACTTTAGGT
GGTCGAGTCTCTGAAGAAATCTTCTTTGGAAGAATTACAACCTGGTCTCAAGATGACTTGAGAAAAGTAA
CTCAGAGTGCATATGCCCAAATTGTTCACTTTGGCATGAATGAAAAGGTTGGGCAAAATCTCCTTTGACCT
CCCACGTCAGGGGGACATGGTATTGGAGAAACCTTACAGTGAAGCCACTGCAAGATTGATAGATGATGAA
GTACGAACTATTATTAATGATGCTTATAAAAAGAACAGTAGCTCTTCTCACAGAAAAGAAAGCTGACGTGG
AGAAGGTTGCTCTTCTGTTGTTAGAAAAAGAAGTATTAGATAAGAATGATATGGTTGAACTTTTGGGCC
CAGACCATTTGCGAAAAATCTACCTATGAAGAATTTGTGGAAGGCACTGGCAGCTTGGATGAGGACACC
TCACTTCCAGAAGGCCTTAAGGACTGGAACAAGGAGCGGGAAAAGGAGAAAGAGGAGCCCCGGGTGAGA
AAGTTGCCAACTAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006796 unedited</p> <pre>GGGCGGAAAACGCATTCGGCACGAGGCACTGGCGGATGTCGCGGGCGGCCTCGGAGAGGA GACGCCGACGTCAGCGCGCCGGGGCGGGGCTGGCGGCAGGAGACGCCGCTTGAGAGCTT GGGCTCCTCCGTGAGCCGCCGGCGCGCTTCGCTGCCTGGCGGCCTTCCCGAGCCGAGC CCGCTTCCCTAGGTCGCCAGTCGTCGCCTGCCCGCCTGCGCAGCGTCCCGGGCCGAGA GGGCCACGGCGGGCGGCCATGGCGCACCGCTGTTTGGCGCTGTGGGGCCGGGGCGGCTGCT GGCCCCGGCGCTACAGCAGCTCCTCGTGCCTGGCGGCGTGGGCCCGGGCGAGCAGCCCT GCCTCCGGACGCTTACCGATTTGTTACAACCTCAAGCAAGGGCCAGCAGAAATTCCTTT TGACAGATATAATTGCTGCTTATCAAAGATTCTGTTCTCGACCCCAAAAAGATTGAAA AATACTTTCCTAATGGAAAAATGGAAAAAAGCTAGTGAACTAAAGAAGTTATGGGAG AGAAAAAGAATCAAAGCCAGCTGCTACCACACGCTCTTCTGGAGGAGGAGGTGGTGGCG GTGGAAAACGAGGTGGCAAGAAAGATGATTCTCACTGGTGGTCCAGGTTTCAGAAGGGTG ACATTCATGGGACGACAAGGATTTCCAGGATGTTCTTCTCTGGACTGCTCTGTTCTGGG GTGGAGTCATGTTTTACTTGCTGCTCAAGAGATCCGGGAGAGAAATCACTTGGGAGGACT TTGTCAATAACTATCCTTTCAAAGGNAGTAGTAGACAGATTGGAAGTCGTACCAGCGTT TTGTTGAGTGACCCCTACACAGGAAAACTCCTGTTGATGGGCATACCGTTTGGTTTAA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006796 unedited</p> <pre>GGCTACTTCTTGTTGTGCCANAATGTCAGTGTGNCATTTTTATTTTTATGTAAGAAG CCATATTTACATAATACATTCATTTTTAAGTATGTTACAGCTCCTGTAGAAAACCATT CCATTAAGACAGCAACAAGTGATCTGGATTCAATCTTTAAAATATTAAGTCAAATTAATA TGTTCTTATCAAGACTCCAATTTAATTTACAGCCCATCTGCACAGGGGAACTGAGGAGA AACAGGAATGAAGAGTGGGCGACAAAGAGAAAGCATCCCTTCCCACACGCCAAGAGTCCA GTGCAACGATCCCTGCCACACGGTCAGCCGACCCCACTTGGTGCCACAGGGTCCAGCCTC GGCCACTCTGGGCTCAACCTTTCCAGCACGTCTGGGAGCCCAATGAGGCTATGGGACAGT GTGCATTTCCCTCAAGGCCTCCGAAAGTCACCTGCCACCCACTGTGACCTCTGAGGCTG AAAGGACTAAGGACTCCTTTCCCATCATTTACAGTGGGCCAGTGGCTGGCTAAAATCAG CGCAGCATTCCCATTCTCTGAAAGCCACAGCTGAAATAATGCACCAGCTGAAACCACAG TGGACAGACTGAGATGGCCTCCCTCTGGGCTCTAGTTGGCACTTTCTACCCGGGGG TCCTCTTTCTCCTTTCCCGCTCCTTGTCCAGTCCCTTAAGGCCTTCTGGAAGTGAGGTG TCCTCATCCAAGCTGCCAGTGCCTTCCACAAATTCATAGGTAGATTNTTCCGAAAT GGTCTGGGGGCCAAAAGTCACCATATCATTCTTATCTAATACTTCTTTTTCTAACACAG AAGAGCACCTTCTNCACGTGAGCTTTTTTCTGTGAGAAGACTACTGGTCTTTTATAGCA TCATTTATAGTATTCTGA</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_006796
Insert Size:	3380 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_006796.1 , NP_006787.1
RefSeq Size:	2963 bp
RefSeq ORF:	2394 bp
Locus ID:	10939
UniProt ID:	Q9Y4W6
Cytogenetics:	18p11.21
Domains:	Peptidase_M41, AAA, AAA
Protein Families:	Druggable Genome, Protease, Transmembrane
Gene Summary:	This gene encodes a protein localized in mitochondria and closely related to paraplegin. The paraplegin gene is responsible for an autosomal recessive form of hereditary spastic paraplegia. This gene is a candidate gene for other hereditary spastic paraplegias or neurodegenerative disorders. [provided by RefSeq, Jul 2008]