

Product datasheet for **SC115551**

ATF6 (NM_007348) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATF6 (NM_007348) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATF6
Synonyms:	ACHM7; ATF6A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115551 sequence for NM_007348 edited (data generated by NextGen Sequencing)

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ATGGGGGAGCCGGCTGGGGTTGCCGGCACCATGGAGTCACCTTTAGCCCGGGACTCTTT
CACAGGCTGGATGAAGATTGGGATTCTGCTCTCTTTGCTGAACTCGGTTATTTACAGAC
ACTGATGAGCTGCAATTGGAAGCAGCAAATGAGACGTATGAAAACAATTTTGATAATCTT
GATTTTGGATTTGGATTTGATGCCTTGGGAGTCAGACATTTGGGACATCAACAACCAATC
TGTACAGTTAAAGATATTAAGGCAGAACCTCAGCCACTTCTCCAGCCTCCTCAAGTTAT
TCAGTCTCGTCTCCTCGGTCAGTGGACTCTTATTCTTCAACTCAGCATGTTCTGAGGAG
TTGGATTTGTCTTCTAGTTCTCAGATGTCTCCCTTTCTTATATGGTGAAAACCTAAT
AGTCTCTCTTCAGCGGAGCCACTGAAGGAAGATAAGCCTGTCACTGGTCTAGGAACAAG
ACTGAAAATGGACTGACTCCAAAGAAAAAATTCAGGTGAATTCAAAACCTTCAATTCAG
CCCAAGCCTTTATTGCTTCCAGCAGCACCCAAGACTCAAACAACTCCAGTGTCCAGCA
AAAACCATCATTATTCAGACAGTACCAACGCTTATGCCATTGGCAAAGCAGCAACCAATT
ATCAGTTTACAACCTGCACCCACTAAAGGCCAGACGGTTTTGCTGTCTCAGCCTACTGTG
GTACAACCTCAAGCACCTGGAGTTCTGCCCTCTGCTCAGCCAGTCCTTGCTGTTGCTGGG
GGAGTCAACAGCTCCCTAATCAGTGGTGAATGTGGTACCAGCCCTTCAGCGAATAGC
CCAGTGAATGGAAAACCTTCCGTGACTAAACCTGTCTACAAAGTACCATTGAGAAATGTC
GGTTTCAGATATTGCTGTGCTAAGGAGACAGCAACGTATGATAAAAAATCGAGAATCCGCT
TGTGAGTCTCGCAAGAAGAAGAAAGAAATATATGCTAGGGTTAGAGGCGAGATTAAGGCT
GCCCTCTCAGAAAACGAGCAACTGAAGAAAAGAAAATGGAACACTGAAGCGGCAGCTGGAT
GAAGTTGTGTGAGAGAACCAGAGGCTTAAAGTCCCTAGTCCAAAGCGAAGAGTTGTCTGT
GTGATGATAGTATTGGCATTATAATACTGAACTATGGACCTATGAGCATGTTGGAACAG
GATTCAGGAGAATGAACCTAGTGTGAGCCCTGCAAATCAAAGGAGGCACCTTCTAGGA
TTTTCTGCTAAAGAGGCACAGGACACATCAGATGGTATTATCCAGAAAAACAGCTACAGA
TATGATCATTCTGTTTCAAATGACAAAGCCCTGATGGTGTAACTGAAGAACCATTGCTT
TACATTCTCCACCTCCTTGTCAGCCCCTAATTAACACAACAGAGTCTCTCAGGTTAAAT
CATGAACTTCGAGGATGGGTTTCATAGACATGAAGTAGAAAGGACCAAGTCAAGAAGAAATG
ACAAATAATCAACAGAAAACCCGTATTCTTCAGGGTGTCTGGAACAGGGCTCAAATTCT
CAGCTGATGGCTGTTCAATACACAGAAACCACTAGTAGTATCAGCAGGAACTCAGGGAGT
GAGCTACAAGTGTATTATGCTTACCCAGAAGTTATCAAGACTTTTTTTGAAGCCATCCGC
AGAAGGGGAGACACATTTTATGTTGTGTCATTTTGAAGGGATCACCTGCTGTTACCAGCT
ACCACCCATAACAAGACCACAAGACCAAAAATGTCAATTGTGTTACCAGCAATAAACATA
AATGAGAAATGTGATCAATGGGCAGGACTACGAAGTGTGATGCAGATTGACTGTCAGGTG
ATGGACACCAGGATCCTCCATATCAAAAAGTTCGTGAGTTCCTCCTTACCTCCGAGATCAG
CAGAGGAATCAAACCAACACCTTCTTTGGCTCCCCTCCCAGCCACAGAGGCAACCCAC
GTTGTCAGCACCATCCCTGAGTCATTACAATAG

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Clone variation with respect to NM_007348.3

Restriction Sites: Please inquire
ACCN: NM_007348
Insert Size: 2500 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: Both ends and size match NM_007348.2.

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_007348.2](#), [NP_031374.2](#)

RefSeq Size: 2488 bp

RefSeq ORF: 2013 bp

Locus ID: 22926

UniProt ID: [P18850](#)

Cytogenetics: 1q23.3

Domains: BRLZ

Protein Families: Transcription Factors

Protein Pathways: Alzheimer's disease

Gene Summary:

This gene encodes a transcription factor that activates target genes for the unfolded protein response (UPR) during endoplasmic reticulum (ER) stress. Although it is a transcription factor, this protein is unusual in that it is synthesized as a transmembrane protein that is embedded in the ER. It functions as an ER stress sensor/transducer, and following ER stress-induced proteolysis, it functions as a nuclear transcription factor via a cis-acting ER stress response element (ERSE) that is present in the promoters of genes encoding ER chaperones. This protein has been identified as a survival factor for quiescent but not proliferative squamous carcinoma cells. There have been conflicting reports about the association of polymorphisms in this gene with diabetes in different populations, but another polymorphism has been associated with increased plasma cholesterol levels. This gene is also thought to be a potential therapeutic target for cystic fibrosis. [provided by RefSeq, Aug 2011]