

Product datasheet for **SC205479**

ATF6 (NM_007348) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	ATF6 (NM_007348) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	ATF6
Synonyms:	ACHM7; ATF6A
ACCN:	NM_007348
Insert Size:	2000 bp



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Insert Sequence: >SC205479 3'UTR clone of NM_007348
 The sequence shown below is from the reference sequence of NM_007348. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GTCAGCACCATCCCTGAGTCATTACAATAGCACCCCTGCAGCTATGCTGGAAAAGTGGACCTGGACCCCT
GCCAGACTGAAGAGCAGGTGAGCAAAATGCTGCTTTCTGCCTTGGTGGCAGGCAGAGAACTGCTCGTA
CTAGAATTCAAGGAGGAAAGAAGAAGAAATAAAAGAAGCTGCTCCATTTTTTCATCATCTACCCATCTAT
TTGGAAAGCACTGGAATTCAGATGCAAGAGAACAATGTTTCTTCAAGTGGCAAATGTAGCCCTGCATCCT
CCAGTGTACCTGGTGTAGATTTTTTTTTCTGTACCTTTCTAAACCTCTCTTCCCTCTGTGATGTTTTT
GTGTTTAAACAGTCATCTTCTTTTAAATAATATCCACCTCTCTTTTTGCCATTTCACTTATTGATTCA
TAAAGTGAATTTATTTAAAGCTATGCCACACATGCATGTTCAAATGGTTTCCACTGATTCGATTTTTTC
ATTCATTTAATGCAAACCCATTCTGGATATTGTGCTTATTTGAGAAAACACATTTCAAACCCAGAAAAG
CCAAAAACACTCCAAAAACAAGCAAAACAATTTGGAGCTTTAGATAAAAGGAAAAACTCCCAGTTGGTA
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GAGAAAATAGAAGGGTAAGGGAAGGGCCAGTGGTGGGGTTTGGAGAGAGGAGATAGCTCCATTAATACA
CATGTTTAAAAGATGGAAGTTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCAC
GAGGTCAGGAGATCAAGACCATCCCGCTAAAACGGTGAACCCCGTCTCTACTAAAAATACAAAAAAT
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ACCCGGGAGGCGGAGCTTGCAAGTGAAGCCAGATCCCGCACTGCACTCCAGCCTGGGCGACAGAGCGAG
ACTCCGCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAGATGGAAGTTCGATGTGACTGCAGTATGAGATT
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CTGAAGAATTGACAAGTATTTGCTCCTTAAAACAACGCAGATTAGTGAACGTGGATTCTGCTGAGGGA
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TGCTCCTCCATGGTTAAAAAAAAAAAAAAAAAGCTGTGTTTCACTTTTACTGTACTATGCCTCTTTTTTAC
CATAGTAGACAATTATGTTTTCATTTGATGAATTCATAGAAGTGGATCTCATACAGCGATGCCTCTCTA
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CTATAGCAATCAATTTCTTCTTCTTACAAGAAAGGGAACGAGAAATTGTAGCAACCTCTCAAGGAT
TATATGCAGCTAGTTAGTTTTCTGCCTGTGAAATTAGGTCTGGCTCCTAAATAATTTTAAAGAACCATC
AGCACTTCTAACTCTCTGGACAGGTGCCTCTTTGTCCAAGCTAGTTAAATGCTTTCCAAGGAAATCAGT
TCAACTTTTGTGAGCGGGGAAAAGCAGGGCTTTATTGTTGTGTTACCTGGGAGTCTGGAGTTTAAAAA
ACGCGTAAAGCGGCCGCGGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_007348.4](#)

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]

Locus ID:

22926

MW:

76.3