

Product datasheet for **SC319835**

ATF1 (NM_005171) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATF1 (NM_005171) Human Untagged Clone
Tag: Tag Free
Symbol: ATF1
Synonyms: EWS-ATF1; FUS/ATF-1; TREB36
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005171.2
GAGGCGGCAGCCACAGTTGATTATGGAAGATCCCACAAGAGTACCACGTCAGAGACAGC
ACCTCAACCTGGTTCAGCAGTTCAGGGAGCTCACATTTCTCATATTGCTCAACAGGTATC
ATCTTTATCAGAAAGTGAGGAGTCCCAGGACTCATCCGACAGCATAGGCTCCTCACAGAA
AGCCACGGGATCTAGCACGGCGCCATCTTACAGAAAAATTTGAAAGACTTATCTTC
TGAAGATACACGGGGCAGAAAAGGAGACGGAGAAAATTCTGGAGTTTCTGCTGCTGCAC
TTCTATGTCTGTTCCAATCCCATCTATCAGACTAGCAGCGGACAGTATATTGCCATTGC
CCCAAATGGAGCCTTACAGTTGGCAAGTCCAGGCACAGATGGAGTACAGGGACTTCAGAC
ATTAACCATGACAAATTCAGGCAGTACTCAGCAAGGTACAATTTCTTCAGTATGCACA
GACCTCTGATGGACAGCAGATACTTGTGCCAGCAATCAGGTGGTGTGTAACAACTGCATC
AGGAGATATGCAAACATATCAGATCCGAACTACACCTTCAGCTACTTCTCTGCCACAAC
TGTGGTGATGACATCTCCTGTGACTCTCACCTCTCAGACAACAAAGACAGATGACCCCA
ATTGAAAAGAGAAATAAGGTTAATGAAAAACAGAGAAGCTGCTCGAGAATGTCGCAGAAA
GAAGAAAGAAATATGTAAATGCCTGGAAAACCGAGTTGCAGTCCCTGGAAAATCAAATAA
AACTCTAATAGAAAGATTAATAAATTTGAAGGATCTTTATTCCAATAAAAGTGTGTTGATT
CCTAAGAAAGAAAATATTTTTGTGGACATGCATAAAAAATTAATGGATTTCTAGTGGAG
TTTTATAAATTAAGGTCAAACTGAAGCTTTTTATTTAGGCTTTTCCAATCAAGGAT
AAATATCTTACGCACGATATCTAGTGACAGAGGAGAAAAGTGAAAATGACCTCAAGGAAG
CTACGGGCACAACCTGGAAGCCTTGTAAGAAATTAACATATTCAAGGAGCAAGAAATGAAC
TTTCAGCAGTCTAAATTTCTAAATAACCAATAGTTGCCAATCTAAAGTGGCAGAGAAGA
TGAAATTTGATAAACTGAATTTTTTTTTAAAAATCCATTTACCCTACAGGTTTGCATTTGT
TTGCTGAAATTTACCTTTTTTTAGTTATATATATGTGTGTGTGTGTAATTTCTGCC
AATAAATCTAAATTACAAAGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_005171



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_005171.2 , NP_005162.1
RefSeq Size:	1568 bp
RefSeq ORF:	816 bp
Locus ID:	466
UniProt ID:	P18846
Cytogenetics:	12q13.12
Domains:	pKID, BRLZ
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	This gene encodes an activating transcription factor, which belongs to the ATF subfamily and bZIP (basic-region leucine zipper) family. It influences cellular physiologic processes by regulating the expression of downstream target genes, which are related to growth, survival, and other cellular activities. This protein is phosphorylated at serine 63 in its kinase-inducible domain by serine/threonine kinases, cAMP-dependent protein kinase A, calmodulin-dependent protein kinase I/II, mitogen- and stress-activated protein kinase and cyclin-dependent kinase 3 (cdk-3). Its phosphorylation enhances its transactivation and transcriptional activities, and enhances cell transformation. Fusion of this gene and FUS on chromosome 16 or EWSR1 on chromosome 22 induced by translocation generates chimeric proteins in angiomatoid fibrous histiocytoma and clear cell sarcoma. This gene has a pseudogene on chromosome 6. [provided by RefSeq, Aug 2010]