

## Product datasheet for **SC330360**

### ATF2 (NM\_001256090) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATF2 (NM_001256090) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATF2
Synonyms:	CRE-BP1; CREB-2; CREB2; HB16; TREB7
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330360 representing NM_001256090. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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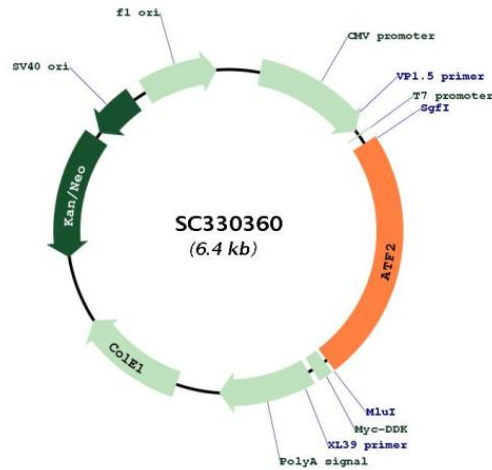
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CCAACACCAACAAGATTCTTAAAACTGTGAAGAAGTGGGTTTGTAAATGAGTTGGCGAGTCCATTT
GAGAATGAATTAAGAAAGCTTCAGAAGATGACATTAATAAATGCCTCTAGATTTATCCCTCTTGCA
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AGTACAGAGCCTGCTCTTTCACAGATCGTTATGGCTCCTTCTCCAGTCACAGCCCTCAGGAAGTGA
  
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Restriction Sites: SgfI-MluI



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## Plasmid Map:



ACCN: NM\_001256090

Insert Size: 1518 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:

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\\_001256090.1](#)

RefSeq Size: 4228 bp

RefSeq ORF: 1518 bp

Locus ID: 1386

UniProt ID: [P15336](#)

Cytogenetics: 2q31.1

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** MAPK signaling pathway

**MW:** 54.5 kDa

**Gene Summary:** This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. This protein binds to the cAMP-responsive element (CRE), an octameric palindrome. It forms a homodimer or a heterodimer with c-Jun and stimulates CRE-dependent transcription. This protein is also a histone acetyltransferase (HAT) that specifically acetylates histones H2B and H4 in vitro; thus it may represent a class of sequence-specific factors that activate transcription by direct effects on chromatin components. The encoded protein may also be involved in cell's DNA damage response independent of its role in transcriptional regulation. Several alternatively spliced transcript variants have been found for this gene [provided by RefSeq, Jan 2014]  
Transcript Variant: This variant (2) contains an additional 5' non-coding exon compared to variant 1. Variants 1 and 2 encode the same isoform (1).