

Product datasheet for **SC330363**

ATF2 (NM_001256093) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATF2 (NM_001256093) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATF2
Synonyms:	CRE-BP1; CREB-2; CREB2; HB16; TREB7
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330363 representing NM_001256093. Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGTAAGTGCCTGGATGTGGCCAGATCAGACCCCAACCAACAAGATTCTGAAAACTGTGAAGAA
GTGGGTTTGTAAATGAGTTGGCGAGTCCATTTGAGAATGAATTCAGAAAGCTTCAGAAGATGACATT
AAAAAATGCCTCTAGATTTATCCCTCTTGCAACACCTATCATAAGAAGCAAAATTGAGGAGCCTTCT
GTTGTAGAAACAACCTACCAGGATAGTCCTTTACCTCACCAGAGTCTACTACCAGTGATGAGAAGGAA
GTACCATTGGCACAACCTGCACAGCCACATCAGCTATTGTTCTGTCAGCATCATTACAGGTTCCCAAT
GTGCTGCTTACAAGTTCTGACTCAAGTGAATTATTCAGCAGGCAGTACCTTCACCAACCTCAAGTACT
GTAATCAGCCAGGCACCATCCTCTAACAGGCCAATTGTCCCTGTACCAGGCCATTTCTCTTCTGTTA
CATCTTCTAATGGACAAACCATGCCTGTTGCTATTCTCTGCATCAATTACAAGTTCTAATGTGCATGTT
CCAGCTGCAGTCCCACTCGTTCGACCAGTCACCATGGTGCCTAGTGTCCAGGAATCCCAGGTCCTTCC
TCTCCCAACCAAGTACAGTCAGAAGCAAAAATGAGATTAAGAGCTGCTTTGACCCAGCAACATCTCCA
GTTACCAATGGTGATCTGTCAAAGGTGATGGTAGCGGATTGGTTAGGACTCAGTCAGAGGAATCTCGA
CCGCAGTCATTACAACAGCCAGCCACATCCACTACAGAACTCCGGCTTCTCCAGCTCACACAACCTCA
CAGACCCAAAGTACAAGTGGTCGTCGGAGAAGAGCAGCTAACGAAGATCCTGATGAAAAAGGAGAAAG
TTTTTAGAGCGAAATAGAGCAGCAGCTTCAAGATGCCGACAAAAAGGAAAGTCTGGGTTCACTCTTA
GAGAAGAAAGCTGAAGACTTGAGTTCAATTAATGGTCAGCTGCAGAGTGAAGTCACCCTGCTGAGAAAT
GAAGTGGCAGCTGAAACAGCTTCTTCTGGCTCATAAAGATTGCCCTGTAACCGCCATGCAGAAGAAA
TCTGGCTATCATAGAAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001256093
Insert Size:	1125 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).



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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:	<u>NM_001256093.1</u>
RefSeq Size:	4128 bp
RefSeq ORF:	1125 bp
Locus ID:	1386
UniProt ID:	<u>P15336</u>
Cytogenetics:	2q31.1
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	MAPK signaling pathway
MW:	40.8 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) lacks an internal exon, and uses an alternate acceptor splice site at the 3' terminal exon compared to variant 1. This results in translation initiation from another start site, and a shorter isoform (4) with distinct N- and C- termini compared to isoform 1.</p>