

Product datasheet for SC322421

ATF 4 (ATF4) (NM_182810) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATF 4 (ATF4) (NM_182810) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATF 4
Synonyms:	CREB-2; CREB2; TAXREB67; TXREB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>>OriGene sequence for SC322421</p> <pre>CAGATGTAGTTTTCTCTGCGCGTGTGCGTTTTCCCTCCTCCCCGCCCTCAGGGTCCACG GCCACCATGGCGTATTAGGGCAGCAGTGCCTGCGGCAGCATTGGCCTTTGCAGCGGCGG CAGCAGCACCAGGCTCTGCAGCGCAACCCCCAGCGGCTTAAGCCATGGCGCTTCTCACG GCATTCAGCAGCAGCGTTGCTGTAACCGACAAAGACACCTTGAATTAAGCACATTCTCTC GATTCAGCAAAGCACCGCAACATGACCGAAATGAGCTTCTGAGCAGCGAGGTGTTGGT GGGGGACTTGATGTCCCCCTTCGACCCGTCGGGTTTGGGGGCTGAAGAAAGCCTAGGTCT CTTAGATGATTACCTGGAGGTGGCCAAGCACTTCAAACCTCATGGGTTCTCCAGCGACAA GGCTAAGGCGGGCTCCTCCGAATGGCTGGCTGTGGATGGGTTGGTCAGTCCCTCCAACAA CAGCAAGGAGGATGCCTTCTCCGGGACAGATTGGATGTTGGAGAAAATGGATTTGAAGGA GTTGACTTGGATGCCCTGTTGGGTATAGATGACCTGGAACCATGCCAGATGACCTTCT GACCACGTTGGATGACACTTGTGATCTCTTTGCCCCCTAGTCCAGGAGACTAATAAGCA GCCCCCCCAGACGGTGAACCCAATTGGCCATCTCCCAGAAAAGTTTAAACAAAACCCGACCA GGTTGCCCCCTTACCTTCTTACAACCTTCCCTTTCCCCAGGGGCTCTGTCTCCAC TCCAGATCATTCTTTAGTTTAGAGCTGGGCAGTGAAGTGGATATCACTGAAGGAGATAG GAAGCCAGACTACACTGCTTACGTTGCCATGATCCCTCAGTGCATAAAGGAGGAAGACAC CCCTTCAGATAATGATAGTGGCATCTGTATGAGCCCAGAGTCTATCTGGGGTCTCCTCA GCACAGCCCCTTACCAGGGGCTCTCAAATAGGAGCCTCCCATCTCCAGGTGTTCTCTG TGGGCTGCCCCGTCCCAAACCTTACGATCCTCCTGGAGAGAAGATGGTAGCAGCAAAAAGT AAAGGGTGAGAAACTGGATAAAGAAGCTGAAAAAATGGAGCAAAACAAGCAGCAGCCAC TAGGTACCGCCAGAAGAAGAGGGCGGAGCAGGAGGCTTACTGGTGAGTGCAAAGAGCT GGAAAAGAAGAACGAGGCTCTAAAAGAGAGGGCGGATTCCCTGGCCAAGGAGATCCAGTA CCTGAAAGATTTGATAGAAGAGGTCCGCAAGGCAAGGGGAAGAAAAGGGTCCCCTAGTT GAGGATAGTCAGGAGCGTCAATGTGCTTGTACATAGAGTGTGTAGTGTGTGTTCCAAT AAATTATTTGGTAGGGAAAGTAAAAAAAAAAAAAAAA</pre>
Restriction Sites:	Please inquire



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ACCN:	NM_182810
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:	<u>NM_182810.1</u> , <u>NP_877962.1</u>
RefSeq Size:	1420 bp
RefSeq ORF:	1056 bp
Locus ID:	468
UniProt ID:	<u>P18848</u>
Cytogenetics:	22q13.1
Protein Families:	Transcription Factors
Protein Pathways:	GnRH signaling pathway, Long-term potentiation, MAPK signaling pathway, Neurotrophin signaling pathway, Prostate cancer

Gene Summary:

This gene encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). The protein encoded by this gene belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino acids that functions as a DNA binding domain. Two alternative transcripts encoding the same protein have been described. Two pseudogenes are located on the X chromosome at q28 in a region containing a large inverted duplication. [provided by RefSeq, Sep 2011]

Transcript Variant: This variant (2) lacks an internal segment in the 5' UTR, compared to variant 1. The protein translation of this variant is regulated by two upstream open reading frames (PMID: 15277680). Both variants 1 and 2 encode the same protein.