

## Product datasheet for **SC303476**

### ATF6 beta (ATF6B) (NM\_004381) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATF6 beta (ATF6B) (NM_004381) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATF6 beta
Synonyms:	CREB-RP; CREBL1; G13
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_004381 edited  
 ATGGCGGAGCTGATGCTGCTCAGCGAGATTGCTGACCCGACGCGTTTCTTCACCGACAAC  
 CTGCTTAGCCCGGAGGACTGGGGTCTGCAGAACAGCACCTTGTATTCTGGCCTAGATGAA  
 GTGGCCGAGGAGCAGACGCAGCTCTCCGTTGCCCGGAGCAGGATGTCCCGTTTGACGGC  
 AGCTCCCTGGACGTGGGGATGGATGTCAGCCCCCTGAGCCCCATGGAACTCCTGCCG  
 ATCTTCCCAGATCTTCAGGTGAAGTCTGAGCCATCTTCCCCTGCTCTTCTCCTCCCTC  
 AGCTCCGAGTCATCGCGTCTCTCCACAGGCCATCCAGCGAGGCTCTTGGGGTAGGGGAG  
 GTGCTCCATGTGAAGACAGAGTCCTTGGCACCCCACTGTGTCTCTGGGAGATGACCCA  
 ACATCCTCATTTGAAACCGTCCAGATCAACGTTATCCCCACCTCTGATGATTCTCAGAT  
 GTCCAGACCAAGATAGAACCTGTCTCTCCATGTTCTTCCGTCACCTCTGAGGCCTCCCTG  
 CTCTCGGCCGACTCCTCCAGCCAGGCTTTTATAGGAGAGGAGGTCTGGAAGTGAAGACA  
 GAGTCCCTGTCCCTTCAGGATGCCTCCTGTGGGATGTCCAGCCCCCTCACTTGGAGCT  
 GTCAGATCAGCATGGGCCATCCCTTGTGGCTCCTCAGGCAAAGCCCTGCCACCCGG  
 AAGCCGCCACTGCAGCCAAACCTGTAGTGCTAACCCTGTCCAATGCCATCCAGAGCT  
 GTGCCTCCAGCACCACAGTCTTCTGCAGTCCCTCGTCCAGCCACCCCACTGTCCCA  
 GTTGTCTCATCCAGGGTCTATTTCAGAGTCCAGCCTGAAGGGCCGGCTCCCTCTACCA  
 CGGCCTGAGAGGAAGAGCATCGTTCCCGCTCCTATGCCTGGAACTCCTGCCCGCTGAA  
 GTGGATGCAAAGCTGCTGAAGCGGCAGCAGCAATGATCAAGAACCGGGAGTCAGCCTGC  
 CAGTCCCAGGAAAGAAGAAAGAGTATCTGCAGGGACTGGAGGCTCGGCTGCAAGCAGTA  
 CTGGCTGACAACCAGCAGCTCCGCCGAGAGAATGCTGCCTCCGGCGCGGCTGGAGGCC  
 CTGCTGGCTGAAAACAGCGAGCTCAAGTTAGGGTCTGGAAACAGGAAGGTGGTCTGCATC  
 ATGGTCTTCTTCTTTCATTGCCTTCACTTTGGACCTGTCAGCATCAGTGAGCCTCCT  
 TCAGTCCCATCTCCTCGGATGAACAAGGGGAGCCTCAACCCCGAGACACTTGCTG  
 GGGTTCTCAGAGCAAGAGCCAGTTCAGGGAGTTAACCTCTCCAGGGTCTCCAGGGC  
 CCTAAGGAGCCCCAGCCAGCCCCACAGACCAGCCAGTTTCAGCAACCTGACAGCCTTC  
 CCTGGGGCGCCAAGGAGCTACTACTAAGAGACCTAGACCAGCTTCTCCTCCTCTGAT  
 TGCCGGCACTTCAACCGCACTGAGTCCCTGAGGCTTGCTGACGAGTTGAGTGGCTGGGTC  
 CAGCGCCACCAGAGAGGCCGGAGGAAGATCCCTCAGAGGGCCAGGAGAGACAGAAGTCT  
 CAGCCACGGAAGAAGTCACTCCAGTTAAGGCAGTCCCCATCAACCCCTGGACCCCCA  
 GAAAGGGATTCTGTGGGCCAGCTGCAACTATATCGCCACCAGACCGTTTCGACGCCAGCA  
 TTCTTGGATGCAATTGACCGACGGGAAGACACATTTTATGTTGTCTCTTCCGAAGGGAC  
 CACCTGTCTCCAGCCATCAGCCACAACAAGACCTCCCGGCCAAGATGTCCCTGGTG  
 ATGCCTGCCATGGCCCCAATGAGACCCTGTGAGGCCGTGGGGCCCCGGGGGACTATGAG  
 GAGATGATGCAGATCGAGTGTGAGGTCATGGACACCAGGGTGATTACATCAAGACCTCC  
 ACAGTGCCCCCTCGCTCCGAAAACAGCCATCCCCAACCCAGGCAATGCCACAGGTGGC  
 CCCTTGCCAGTCTCTGCAGCCAGCCAGGCCACCAGGCCTCCCACCAGCCCCTCTACCTC  
 AATCATCCCTGA

**Restriction Sites:** Please inquire

**ACCN:** NM\_004381

**Insert Size:** 2600 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).

**OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM\_004381.3.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_004381.3</a></u> , <u><a href="#">NP_004372.3</a></u>
<b>RefSeq Size:</b>	2622 bp
<b>RefSeq ORF:</b>	2622 bp
<b>Locus ID:</b>	1388
<b>UniProt ID:</b>	<u><a href="#">Q99941</a></u>
<b>Cytogenetics:</b>	6p21.32
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a transcription factor in the unfolded protein response (UPR) pathway during ER stress. Either as a homodimer or as a heterodimer with ATF6-alpha, the encoded protein binds to the ER stress response element, interacting with nuclear transcription factor Y to activate UPR target genes. The protein is normally found in the membrane of the endoplasmic reticulum; however, under ER stress, the N-terminal cytoplasmic domain is cleaved from the rest of the protein and translocates to the nucleus. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>