

Product datasheet for **SC122273**

ATF6 beta (ATF6B) (BC008394) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATF6 beta (ATF6B) (BC008394) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATF6 beta
Synonyms:	activating transcription factor 6 beta; cAMP responsive element binding protein-like 1; Creb-related protein; CREB-RP; CREBL1; cyclic AMP-dependent transcription factor ATF-6 beta; FLJ10066; G13; OTTHUMP00000029433; protein G13
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC008394 edited GGGTGGGGGGAAAGATGGCGGAGCTGATGCTGCTCAGCGAGATTGCTGACCCGACGCGT TTCTTCACCGACAACCTGCTTAGCCCGGAGGACTGGGGTCTGCAGAACAGCACCTTGAT TCTGGCCTAGATGAAGTGGCCGAGGAGCAGACGCGACTCTTCCGTTGCCCGGAGCAGGAT GTCCCCTTTGACGGCAGCTCCCTGGACGTGGGGATGGATGTCAGCCCCTCTGAGCCCCA TGGAACTCCTGCCGATCTTCCAGATCTTCAGGTGAAGTCTGAGCCATCTTCCCCTGC TCTTCTCCTCCCTCAGCTCCGAGTCATCGCGTCTCTCCACAGAGCCATCCAGCGAGGCT CTTGGGGTAGGGGAGGTGCCATGTGAAGACAGAGTCCTTGGCACCCCCACTGTGTCTC CTGGGAGATGACCCAACATCCTCATTTGAAACCGTCCAGATCAACGTTATCCCCACCTCT GATGATTCTCAGATGTCCAGACCAAGATAGAACCTGTCTCTCCATGTTCTTCCGTC AAC TCTGAGGCCTCCCTGCTCTCGGCCGACTCCTCCAGCCAGGCTTTTATAGGAGAGGAGGTC CTGGAAGTGAAGACAGAGTCCCTGTCCCCTT CAGGATGCCTCCTGTGGGATGTCCAGCC CCCTCACTTGGAGCTGTCCAGATCAGCATGGGCCATCCCTTGATGGCTCCTCAGGCAA GCCCTGCCACCCGGAAGCCGCACTGCAGCCAAACCTGTAGTGCTAACCACTGTCCCA ATGCCATCCAGAGCTGTGTCTCCAGCACCACAGTCTTCTGCAGTCCCTCGTCCAGCCA CCCCAGTACTGAAGAAGGAGAAAAGGGCCGGGCATGGTGGCTCACGCCGTAATCCCA GCACTTTGGGAGGCTGAGGCGGGCGAATCACCTGAGGTGAGAAGTTTAAGACCAGCTGG CCAACGTGGTGAACCTTGCTCTACTAAAAATACAAAATTAGCGTGGAGTGGTGGCAG GCGCCTGTAATCCCAGCTCCTCGGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGG CGGAGGTTGCAGTGAAGCCGAGATCATGCCACTGCACTCCAGCCTGGGCGACAAAGCGAGA CTTTGTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for BC008394 unedited AAGTTTTTCATTTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCCATTACGGCCGGGG GGGTGGGGGGAAAGAGGCGGAGCTGATGCTGCTCAGCGAGATTGCTGACCCGACGCGTT TCTTCACCGACAACCTGCTTAGCCCGGAGGACTGGGGTCTGCAGAACAGCACCTTGATT CTGGCCTAGATGAAGTGGCCGAGGAGCAGACGCAGCTCTCCGTTGCCCGGAGCAAGATG TCCCGTTTGACGGCAGCTCCCTGGACGTGGGGATGGATGTCAGCCCTCTGAGCCCCCAT GGGAACCTCTGCCGATCTCCAGATCTTCAAGTGAAGTCTGAGCCATCTCCCCCTGCT CTTCTCCTCCCTCAGCTCCGAGTCATCGCTCTCTCCACAGAGCCATCCAGCGAGGCTC TTGGGGTAGGGGAGGTGCTCCATGTGAAGACAGAGTCCTTGGCACCCCCACTGTGTCTCC TGGGAGATGACCCAACATCCTCATTGAAACCGTCCAGATCAACGTTATCCCCACCTCTG ATGATTCTCAGATGTCCAGACCAAGATAGAACCTGTCTCTCCATGTTCTTCCGTCAACT CTGAAGCCTCCCTGCTCTCGGCCACTCCTCCAGCCAGGCTTTTATAGGAGAGGANGTCC TGGNAGTGAAGACAGAGTCCCTGTCCCCTTCNAGATGCCTCCTGTGGGATGTCCAGCCC CCTCACTTGGAGCTGTCCAGATCAGCATGGGCCCATCCCTTGATGGCTCCTCCAGCAAAG CCCTGCCCCACCGAAGCCGCCACTGCAGCCNAACTGTAGTGCTAACCACTGTCCCAA TGCCATNCAGAGCTGTGTCTNCCAGCACACAGTCTTCTGCAGTCCNNTGCTCAGCCACC CCCAGTACTGAAGAA
Restriction Sites:	Please inquire
ACCN:	BC008394
Insert Size:	1180 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:	<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:	BC008394.1 , AAH08394.1
RefSeq Size:	1180 bp
Locus ID:	1388
Cytogenetics:	6p21.32
Protein Families:	Transcription Factors

Gene Summary:

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]