

Product datasheet for **RC209917**

ATF6 beta (ATF6B) (NM_004381) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATF6 beta (ATF6B) (NM_004381) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATF6 beta
Synonyms:	CREB-RP; CREBL1; G13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC209917 representing NM_004381
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGCTGATGCTGCTCAGCGAGATTGCTGACCCGACGCGTTTCTTACCAGACAACCTGCTTAGCC
 CGGAGGACTGGGGTCTGCAGAACAGCACCTTGTATTCTGGCCTAGATGAAGTGGCCGAGGAGCAGACGCA
 GCTCTTCCGTTGCCCGGAGCAGGATGTCCCGTTTGACGCGAGCTCCCTGGACGTGGGGATGGATGTCAGC
 CCCTCTGAGCCCCATGGGAACCTCTGCCGATCTTCCAGATCTTCCAGGTGAAGTCTGAGCCATCTTCCC
 CCTGCTTCTCCTCCCTCAGCTCCGAGTCAATCGCTCTTCCACAGAGCCATCCAGCGAGGCTCTTGG
 GGTAGGGGAGGTGCTCCATGTGAAGACAGAGTCTTGGCACCCCACTGTGTCTCCTGGGAGATGACCCA
 ACATCCTCATTGAAACCGTCCAGATCAACGTTATCCCCACCTCTGATGATTCTCAGATGTCCAGACCA
 AGATAGAACCTGTCTCCATGTTCTTCCGTCAACTCTGAGGCCTCCCTGCTCTCAGCCGACTCTCCAG
 CCAGGCTTTTATAGGAGAGGAGTCTGGAAGTGAAGACAGAGTCCCTGTCCCCTCAGGATGCCTCCTG
 TGGGATGTCCCAGCCCCCTCACTTGGAGCTGTCCAGATCAGCATGGGCCATCCCTTGATGGCTCCTCAG
 GCAAAGCCCTGCCACCCGGAAGCCGCACTGCAGCCAAACCTGTAGTGCTAACCCTGTCCCAATGCC
 ATCCAGAGCTGTGCTCCAGCACACAGTCTTCTGCACTCCCTCGTCCAGCCACCCCACTGTCCCA
 GTTGTCTCATCCAGGGTGTATTTCGAGTCCAGCCTGAAGGGCCGGCTCCCTCTTACCACGGCTGAGA
 GGAAGAGCATCGTTCCCGCTCTATGCCTGAAACTCTGCCCGCTGAAGTGGATGCAAAGCTGCTGAA
 GCGGCAGCAGCAATGATCAAGAACCGGGAGTCAAGCTGCCAGTCCCGGAGAAAGAAAGAGTATCTG
 CAGGACTGGAGGCTCGGCTGCAAGCAGTACTGGCTGACAACCAGCAGCTCCCGGAGAGAATGTGCC
 TCCGGCCGGCTGGAGGCCCTGCTGGCTGAAAACAGCGAGCTCAAGTTAGGGTCTGAAAACAGGAAGGT
 GGTCTGCATCATGGTCTTCTTCTTCTTCACTTTGACCTGTGAGCATCAGTGAAGCTCCT
 TCAGCTCCCATCTCTCCTCGGATGAACAAGGGGAGCCTCAACCCCGGAGACACTTGCTGGGGTTCTCAG
 AGCAAGAGCCAGTTCAGGGAGTTGAACCTCTCCAGGGTCTCCAGGGCCCTAAGGAGCCCAAGCCAG
 CCCCACAGACCAGCCAGTTTTCAGCAACCTGACAGCCTTCCCTGGGGGCGCAAGGAGCTACTACTAAGA
 GACCTAGACCAGCTTCTCTCTCTGATTGCCGCACTTCAACCGCACTGAGTCCCTGAGGCTTGCTG
 ACGAGTTGAGTGGTGGTCCAGCGCCACCAGAGGGCCGAGGAAGATCCCTCAGAGGGCCAGGAGAG
 ACAGAAGTCTCAGCCACGGAAGAAGTCACTCCAGTTAAGGCAGTCCCATCCAACCCCTGGACCCCA
 GAAAGGGATTCTGTGGCCAGCTGCAACTATATCGCCACCCAGACCGTTCGAGCCAGCATTCTTGGATG
 CAATTGACCGACGGGAAGACACATTTTATGTTGTCTTTCCGAAGGGACCACCTGCTGCTCCCAGCCAT
 CAGCCACAACAAGACCTCCCGGCCAAGATGTCCCTGGTGTGCTGCTGCAATGGCCCCAATGAGACCCCTG
 TCAGGCCGTGGGGCCCGGGGACTATGAGGAGATGATGCAGATCGAGTGTGAGGTGATGGACACAGGG
 TGATTCACATCAAGACCTCCACAGTCCCCCTCGCTCCGAAAACAGCCATCCCCAACCCAGGCAATGC
 CACAGTGGCCCTTGCAGTCTCTGCAGCCAGCCAGGCCACCAGGCCCTCCACCAGCCCTCTACCTC
 AATCATCCC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

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_004381.5](#)

RefSeq Size: 2622 bp

RefSeq ORF: 2112 bp

Locus ID: 1388

UniProt ID: [Q99941](#)

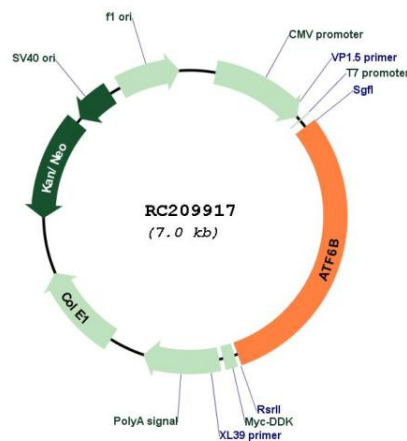
Cytogenetics: 6p21.32

Protein Families: Transcription Factors

MW: 76.7 kDa

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]

Product images:



Circular map for RC209917