

Product datasheet for **SC326184**

ATF6 beta (ATF6B) (NM_001136153) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATF6 beta (ATF6B) (NM_001136153) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATF6B
Synonyms:	CREB-RP; CREBL1; G13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



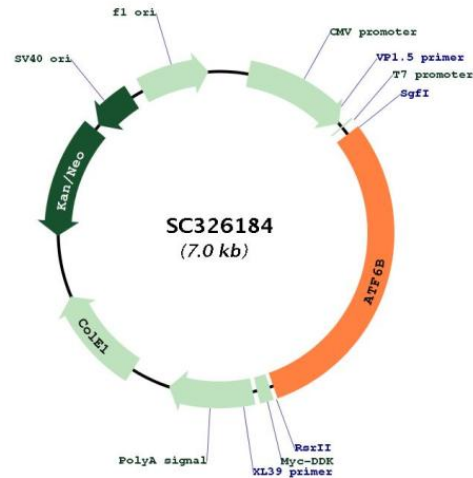
[View online »](#)

Fully Sequenced ORF: >SC326184 representing NM_001136153.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
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CCGGAGGACTGGACAGCACCTTGTATTCTGGCCTAGATGAAGTGCCGAGGAGCAGACGACGCTTTC
CGTTGCCCGGAGCAGGATGTCCCGTTTGACGGCAGCTCCCTGGACGTGGGGATGGATGTCAGCCCCCTC
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TCCCACCAGCCCCTACCTCAATCATCCCTGA
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ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
  
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Restriction Sites: SgfI-RsrII

Plasmid Map:


ACCN: NM_001136153

Insert Size: 2103 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: 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:

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_001136153.1](#)

RefSeq Size: 2613 bp

RefSeq ORF: 2103 bp

Locus ID: 1388

UniProt ID: [Q99941](#)

Cytogenetics: 6p21.32

Protein Families: Transcription Factors

MW: 76.4 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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site at the 3' end of exon 1 compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is 3 aa shorter compared to isoform a.