OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC227970

ATF6 beta (ATF6B) (NM_001136153) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATF6 beta (ATF6B) (NM_001136153) 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)

View online »

ORF Nucleotide Sequence:

>RC227970 representing NM_001136153
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGCTGATGCTGCTCAGCGAGATTGCTGACCCGACGCGTTTCTTCACCGACAACCTGCTTAGCC
CGGAGGACTGGGACAGCACCTTGTATTCTGGCCTAGATGAAGTGGCCGAGGAGCAGACGCAGCTCTTCCG
TTGCCCGGAGCAGGATGTCCCGTTTGACGGCAGCTCCCTGGACGTGGGGATGGATGTCAGCCCCTCTGAG
CCCCCATGGGAACTCCTGCCGATCTTCCCAGATCTTCAGGTGAAGTCTGAGCCATCTTCCCCCTGCTCTT
CCTCCTCCCTCAGCTCCGAGTCATCGCGTCTCTCCACAGAGCCATCCAGCGAGGCTCTTGGGGTAGGGGA
GGTGCTCCATGTGAAGACAGAGTCCTTGGCACCCCCACTGTGTCTCCTGGGAGATGACCCAACATCCTCA
TTTGAAACCGTCCAGATCAACGTTATCCCCACCTCTGATGATTCCTCAGATGTCCAGACCAAGATAGAAC
CTGTCTCTCCATGTTCTTCCGTCAACTCTGAGGCCTCCCTGCTCTCAGCCGACTCCTCCAGCCAGGCTTT
TATAGGAGAGGAGGTCCTGGAAGTGAAGACAGAGTCCCTGTCCCCTTCAGGATGCCTCCTGTGGGATGTC
CCAGCCCCCTCACTTGGAGCTGTCCAGATCAGCATGGGCCCATCCCTTGATGGCTCCTCAGGCAAAGCCC
TGCCCACCCGGAAGCCGCCACTGCAGCCCAAACCTGTAGTGCTAACCACTGTCCCAATGCCATCCAGAGC
TGTGCCTCCCAGCACCACAGTCCTTCTGCAGTCCCTCGTCCAGCCACCCCCAGTGTCCCCAGTTGTCCTC
ATCCAGGGTGCTATTCGAGTCCAGCCTGAAGGGCCGGCTCCCTCTCTACCACGGCCTGAGAGGAAGAGCA
TCGTTCCCGCTCCTATGCCTGGAAACTCCTGCCCGCCTGAAGTGGATGCAAAGCTGCTGAAGCGGCAGCA
GCGAATGATCAAGAACCGGGAGTCAGCCTGCCAGTCCCGGAGAAAGAAGAAAGAGTATCTGCAGGGACTG
GAGGCTCGGCTGCAAGCAGTACTGGCTGACAACCAGCAGCTCCGCCGAGAGAATGCTGCCCTCCGGCGGC
GGCTGGAGGCCCTGCTGGCTGAAAACAGCGAGCTCAAGTTAGGGTCTGGAAACAGGAAGGTGGTCTGCAT
CATGGTCTTCCTTCTCTTCATTGCCTTCAACTTTGGACCTGTCAGCATCAGTGAGCCTCCTTCAGCTCCC
ATCTCTCCTCGGATGAACAAGGGGGAGCCTCAACCCCGGAGACACTTGCTGGGGTTCTCAGAGCAAGAGC
CAGTTCAGGGAGTTGAACCTCTCCAGGGGTCCTCCCAGGGCCCTAAGGAGCCCCAGCCCAGCCCCACAGA
CCAGCCCAGTTTCAGCAACCTGACAGCCTTCCCTGGGGGCGCCAAGGAGCTACTACTAAGAGACCTAGAC
CAGCTCTTCCTCTCCTCTGATTGCCGGCACTTCAACCGCACTGAGTCCCTGAGGCTTGCTGACGAGTTGA
GTGGCTGGGTCCAGCGCCACCAGAGAGGCCGGAGGAAGATCCCTCAGAGGGCCCAGGAGAGACAGAAGTC
TCAGCCACGGAAGAAGTCACCTCCAGTTAAGGCAGTCCCCATCCAACCCCCTGGACCCCCAGAAAGGGAT
TCTGTGGGCCAGCTGCAACTATATCGCCACCCAGACCGTTCGCAGCCAGCATTCTTGGATGCAATTGACC
GACGGGAAGACACATTTTATGTTGTCTCTTTCCGAAGGGACCACCTGCTGCTCCCAGCCATCAGCCACAA
CAAGACCTCCCGGCCCAAGATGTCCCTGGTGATGCCTGCCATGGCCCCCAATGAGACCCTGTCAGGCCGT
GGGGCCCCGGGGGACTATGAGGAGATGATGCAGATCGAGTGTGAGGTCATGGACACCAGGGTGATTCACA
TCAAGACCTCCACAGTGCCCCCCTCGCTCCGAAAACAGCCATCCCCAACCCCAGGCAATGCCACAGGTGG
CCCCTTGCCAGTCTCTGCAGCCAGCCAGGCCCACCAGGCCTCCCACCAGCCCCTCTACCTCAATCATCCC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227970 representing NM_001136153
Red=Cloning site Green=Tags(s)

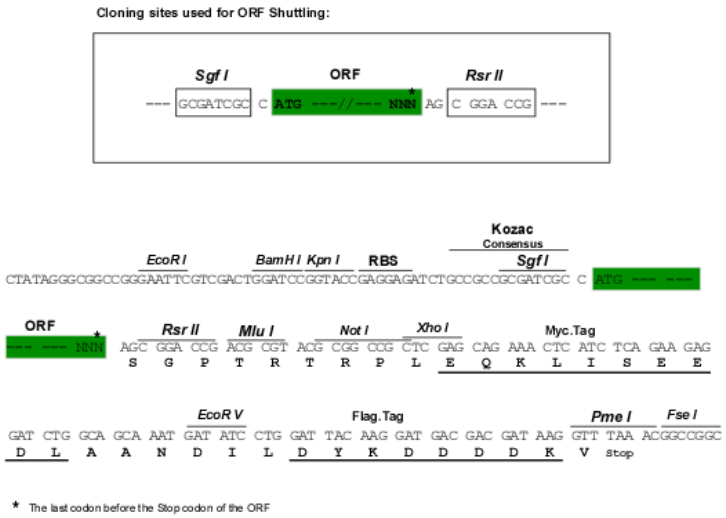
MAELMLLSEIADPTRFFTDNLLSPEDWDSTLYSGLDEVAEEQTQLFRCPEQDVPFDGSSLDVGMDVSPSE
PPWELLPIFPDLQVKSEPSSPCSSSSLSSESSRLSTEPSSEALGVGEVLHVKTESLAPPLCLLGDDPTSS
FETVQINVIPTSDDSSDVQTKIEPVSPCSSVNSEASLLSADSSSQAFIGEEVLEVKTESLSPSGCLLWDV
PAPSLGAVQISMGPSLDGSSGKALPTRKPPLQPKPVVLTTVPMPSRAVPPSTTVLLQSLVQPPPVSPVVL
IQGAIRVQPEGPAPSLPRPERKSIVPAPMPGNSCPPEVDAKLLKRQQRMIKNRESACQSRRKKKEYLQGL
EARLQAVLADNQQLRRENAALRRRLEALLAENSELKLGSGNRKVVCIMVFLLFIAFNFGPVSISEPPSAP
ISPRMNKGEPQPRRHLLGFSEQEPVQGVEPLQGSSQGPKEPQPSPTDQPSFSNLTAFPGGAKELLLRDLD
QLFLSSDCRHFNRTESLRLADELSGWVQRHQRGRRKIPQRAQERQKSQPRKKSPPVKAVPIQPPGPPERD
SVGQLQLYRHPDRSQPAFLDAIDRREDTFYVVSFRRDHLLLPAISHNKTSRPKMSLVMPAMAPNETLSGR
GAPGDYEEMMQIECEVMDTRVIHIKTSTVPPSLRKQPSPTPGNATGGPLPVSAASQAHQASHQPLYLNHP

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8037_f08.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001136153

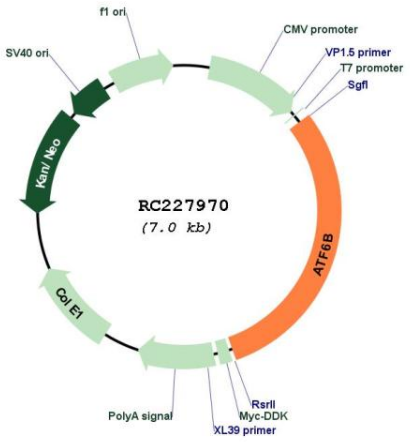
ORF Size: 2100 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001136153.2
RefSeq ORF:	2103 bp
Locus ID:	1388
UniProt ID:	Q99941
Cytogenetics:	6p21.32
Protein Families:	Transcription Factors
MW:	76.2 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 RC227970