

Product datasheet for **RC216022**

ATF7 (NM_006856) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATF7 (NM_006856) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATF7
Synonyms:	ATFA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC216022 representing NM_006856
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGAGACGACAGACCGTTTGTGTGCAATGCCCGGGCTGTGGACAGAGATTTACAACGAGGACCACC
 TGGCAGTTCATAAACACAAGCATGAGATGACATTGAAATTTGGCCAGCCCGAACTGACTCAGTCATCAT
 TGCAGATCAAACGCCTACTCCAAGTAGATTCCTGAAGAACTGTGAGGAGGTGGGACTCTTCAATGAACTA
 GCTAGCTCCTTTGAACATGAATCAAGAAAGCTGCAGATGAGGATGAGAAAAAGGCTGCTGCTGGGCCCC
 TTGACATGTCTCTGCCTCCACACCAGACATCAAATCAAAGAAGAAGAGCCAGTGGAGGTAGACTCATC
 CCCACCTGATAGCCCTGCCTCTAGTCCCTGTTCCCCACCACTGAAGGAGAAGGAGGTTACCCCAAAGCT
 GTTCTGATCTCTACCCACACCCACCATTGTACGTCTGGCTCCCTGCCTCTCCACTGGGCTATGATC
 CACTTCATCCAACCTTCCCTCCCAACCTCTGTCATCACACAGGCTCCACCATCCAACAGGCAAATGGG
 GTCTCCCACTGGCTCCCTCCCTCTGTGATGATCTTGTGTAATGGACAGACCATGCCTGTGTTGCCAGGG
 CCTCCAGTACAGATGCCGCTGTATATCGCTGGCCAGACCTGTGTCCATGGTGCCAACATTCTGGTA
 TCCTGGCCACCAAGTAAACAGTAGTGGCTCCATTTCTCCCTCTGGCCACCCATACCATCAGAAGCCAA
 GATGAGACTGAAAGCCACCCTAACTACCAAGTCTCCTCAATCAATGGTGGTGTGGAATGGTGGTGGGT
 ACTGCCAGCACCATGGTGACAGCCCGCCAGAGCAGAGCCAGATTCTCATCCAGCACCCTGATGCCCAT
 CCCCTGCCAGCCACAGGTCTCACCAGCTCAGCCACCCCTAGTACTGGGGGGCAGCGCGGCGCACAGT
 AGATGAAGATCCAGATGAGCGACGGCAGCGCTTCTGGAGCGCAACCGGGCTGCAGCCTCCCGTGGCCG
 CAAAAGCGAAAGCTGTGGGTGCTCTCCCTAGAGAAGAAGGCCGAAGAAGTCACTTCTCAGAATTCAGC
 TGAGTAATGAAGTCACATTACTACGCAATGAGGTGGCCAGTTGAAACAGCTACTGTTAGTCAATAAG
 CTGCCAGTCACTGCACTACAGAAAAAGACTCAAGGCTATTTAGAAAGCCCAAGGAAAGCTCAGAGCCA
 ACGGGTCTCCAGCCCTGTGATTCAGCACAGCTCAGCAACAGCCCTAGCAATGGCCTCAGTGTTCGCT
 CTGCGAGCTGAAGCTGTGGCCACCTCGGTCTCACTCAGATGGCCAGCCAAAGGACAGAAGTGAAGTGC
 GATACAATCGCATGTAATCATGACCCACAGTCCAGTCTGCGGGCAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216022 representing NM_006856
 Red=Cloning site Green=Tags(s)

MGDDRPFVCNAPGCGQRFNEDHLAVHKHKHEMTLKFGPARTDSVIIADQTPTRFLKNCEEVGLFNL
 ASSFEHEFKKAADEKKAAGPLDMSLPSTPDIKIKEEEEPVEVDSSPPDSPASSPCSPPLKEKEVTPKP
 VLIISTPTTIVRPGSLPLHLGYDPLHPTLPSPTSVITQAPPSNRQMGSPGTGSLPLVMHLANGQTMPVLP
 PPVQMPSVISLARPVSMVNPVPGIPGPPVNSSGSISSPGHIPSEAKMRLKATLTHQVSSINGGCGMVVG
 TASTMVTARPEQSQILIQHPDAPSPAQPQVSPAQPTSTGGRRRTVDEDPDERRQRFLEARNRAAASRCR
 QKRKLWVSSLEKKAEEELTSQNIQLSNEVTLLRNEVAQLKQLLLAHKDCPV TALQKKTQGYLESPKESSEP
 TGSPAPVIQHSSATAPSNGLSVRSAAEAVATSVLTQMASQRTELSPMIQSHVIMTPQSQSAGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8062_h03.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_006856

ORF Size: 1449 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_006856.3](#)
RefSeq Size: 2758 bp

RefSeq ORF: 1452 bp

Locus ID: 11016

UniProt ID: [P17544](#)
Cytogenetics: 12q13.13

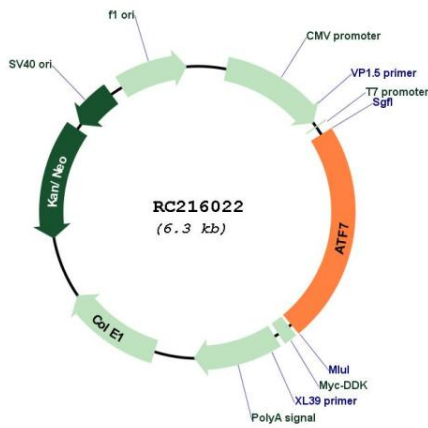
Domains: BRLZ, zf-C2H2

Protein Families: Transcription Factors

MW: 51.6 kDa

Gene Summary: Plays important functions in early cell signaling. Binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AG][AG]-3'), a sequence present in many viral and cellular promoters. Activator of the NF-ELAM1/delta-A site of the E-selectin promoter. Has no intrinsic transcriptional activity, but activates transcription on formation of JUN or FOS heterodimers. Also can bind TRE promoter sequences when heterodimerized with members of the JUN family.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC216022