

Product datasheet for **RG225852**

ATF7 (NM_001130059) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATF7 (NM_001130059) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATF7
Synonyms:	ATFA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225852 representing NM_001130059
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAGACGACAGACCGTTTGTGTGCAATGCCCGGGCTGTGGACAGAGATTTACAACGAGGACCACC
 TGGCAGTTCATAAACACAAGCATGAGATGACATTGAAATTTGGCCAGCCCGAAGCTGACTCAGTCATCAT
 TGCAGATCAAACGCCTACTCCAAGTAGATTCTGAAGAACTGTGAGGAGGTGGGACTCTTCAATGAACTA
 GCTAGCTCCTTTGAACATGAATTCAAGAAAGCTGCAGATGAGGATGAGAAAAAGCAAGAAGCAGGACTG
 TTGCCAAAAAAGCTGGTGGCTGCTGCTGGGCCCTTGACATGTCTCTGCCTCCACACCAGACATCAAAAT
 CAAAGAAGAAGAGCCAGTGGAGGTAGACTCATCCCCACCTGATAGCCCTGCCTCTAGTCCCTGTTCCCA
 CCACTGAAGGAGAAGGAGGTTACCCCAAAGCTGTTCTGATCTCTACCCCAACCCACCATTGTACGTC
 CTGGCTCCCTGCCTCTCCACTTGGGCTATGATCCACTTCATCAAACCTTCCCTCCCAACCTCTGTCAT
 CACACAGGCTCCACCATCAAACAGGCAAATGGGGTCTCCACTGGCTCCCTCCCTCTTGTATGCATCTT
 GCTAATGGACAGACCATGCCTGTGTTGCCAGGGCTCCAGTACAGATGCCGTCTGTTATATCGCTGGCCA
 GACCTGTGTCCATGGTGCCCAACATTCTGGTATCCCTGGCCACCAGTTAACAGTAGTGCTCCATTTTC
 TCCCTCTGGCCACCCTATACCATCAGAAGCAAGATGAGACTGAAAGCCACCCTAACTACCAAGTCTCC
 TCAATCAATGGTGGTGTGGAATGGTGGTGGTACTGCCAGCACCATGGTGACAGCCCGCCAGAGCAGA
 GCCAGATTCTCATCCAGCACCCTGATGCCCCATCCCTGCCAGCCACAGGTCTCACCAGCTCAGCCAC
 CCCTAGTACTGGGGGCGACGGCGGCGCACAGTAGATGAAGATCCAGATGAGCGACGGCAGCGCTTTCTG
 GAGCGCAACCGGGCTGCAGCCTCCCGCTGCCGCAAAAGCGAAAGCTGTGGGTGTCCTCCCTAGAGAAGA
 AGCCCGAAGAAGCTCACTTCTCAGAACATTCAGCTGAGTAATGAAGTACACTACGCAATGAGGTGGC
 CCAGTTGAAACAGCTACTGTTAGCTCATAAAGACTGCCAGTCACTGCACTACAGAAAAAGACTCAAGGC
 TATTTAGAAAGCCCAAGGAAAGCTCAGAGCAACGGTTCTCCAGCCCTGTGATTAGCAGCAGCTCAG
 CAACAGCCCTAGCAATGGCCTCAGTGTTCGCTCTGCAGCTGAAGCTGTGGCCACCTCGGTCTCACTCA
 GATGGCCAGCCAAAGGACAGAAGTGAAGCATGCCGATACAATCGCATGTAATCATGACCCACAGTCCAG
 TCTGCGGGCAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG225852 representing NM_001130059
 Red=Cloning site Green=Tags(s)

MGDDRPFVFNAPGCGQRFVFNEDHLAVHKHKHEMTLKFPGPARTDSVIIADQTPTRFLKNCEEVGLFNEL
 ASSFEHEFKKAADEKKARSRTVAKKLVAAGPLDMSLPSTPDIKIKEEPEVVDSSPPDSPASSPCSP
 PLKEKEVTPKPVLISTPTIIVRPGSLPLHLGYDPLHPTLPSPSVITQAPPSNRQMGSPGSLPLVMHL
 ANGQTMPVLPVPPVQMPVSVISLARVSMVNPVPGIPVPPVNSSGSISSPGHIPSEAKMRLKATLTHQVS
 SINGGCGMVVGTASTMVTARPEQSQILIQHPDAPSPAQPQVSPAQPTPSTGGRRRRVDEDPDERRQRFL
 ERNRAASRCRQKRKLWVSSLEKKAELTSQNIQLSNEVTLRNEVAQLKQLLLAHKDCPVTAALQKKTQG
 YLESPKESSEPTGSPAPVIQHSSATAPSNGLSVRSAAEAVATSVLTQMASQRTELSMPIQSHVIMTPQSQ
 SAGR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

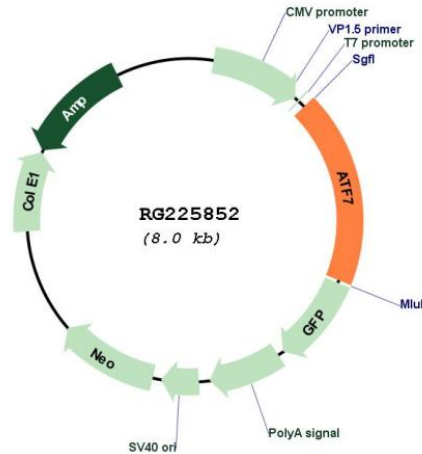


EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---
 T R T R P L E M E S D - - -

 PmeI FseI
 --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
 - - E E R V Stop

Plasmid Map:



ACCN: NM_001130059

ORF Size: 1482 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_001130059.1](#), [NP_001123531.1](#)

RefSeq Size: 6600 bp

RefSeq ORF: 1484 bp

Locus ID: 11016

Cytogenetics: 12q13.13

Protein Families: Transcription Factors

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]