

Product datasheet for **RN204267**

Atf6 (NM_001107196) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atf6 (NM_001107196) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Atf6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN204267 representing NM_001107196
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGTCGCCTTTTAGTCCGGTCTCTCCTCATGGACCAGGTGAAGACTGGGAGTCCACGTTGTTTGCTG
 AGCTTGGCTATTTACAGACACGGATGATGTCCAGTTTGTATGCAGCACATGAGACTTACGAAAATAATTT
 TGATCATCTTAATTTTGGATTTGATGCCTTGGGAGTCAGACATATGGAGCCCCAGCAGCCACTTC
 TGCTCAGACATTAAGGCAGAGCCCCAGCCTCTTCTCCGGCTTCTCCAGTTGTTCTGTCTCTTCTCCTC
 GGTCCACAGACTCCTGTTCTTCAACTCAGCACGTTCTGAGGAGTTGGACTTGTGTCTAGTTCTCAGTC
 TCCCTTTCTTGTATGGCGACAGCTGTACAGCCCTCCTCAGCAGAGCCACTGAAGGAAGAGAAGCCT
 GTCAGTGGTCTGAAACAAAACGGAACATGGACTGACTCAAAGAAAAAATCCAGATGAGTTCAAAC
 CTTGAGTTCAGCCCAAGCCTTTGTTACTTCCAGCAGCACCAAGACTCCAGCAAACGCCAGTGTCCAGC
 AAAGACCATCATATTACAGACTGCCAGCCCTGATGCCACTGGCAAAGCAGCAGTGCATTATCAGTATA
 CAGCCTGCGCCACCAAAGGTCAGACTGTTTTGCTCTCTCAGCCTGCTGTGGTTCAACTCAGACCCCTG
 GAGTTCGCCCTCTGCTCAGCCAGTACTTGTGTCACTGGCGGAGCCACACAGCTACCTAACCATGTGGT
 GAATGTGGTGCCAGCCCCGGTGGTGAACAGCCGGTGAACGGAAGAACTGTGTGTGACTAAACCTGTTCTA
 CAAAGCAGCACCAGAAGCAGGGTTTCAAGATTTGCCGACTGAGGAGACAGCAGCGTATGATCAAGAACC
 GAGAGTCTGCTTGTGAGTACGAAAGAAGAAGAAGAGTATATGCTAGGCCTGGAGGCCAGGTTGAAGGC
 CGCCCTCTCCGAGAATGAGCAGCTGAAGAAGGAGAATGGTCCCTGAAGCGACAGCTGGACCAGGTGGT
 TCAGAGAACCAGAGGCTCAAAGTCCAAGTCCAAGCGCAGAGCTGTCTGTGTGATGATAGTATTAGCAT
 TTATCATGCTGAAGTATGGGCCATGAGCATGCTGGAGCAAGATTCAGGAGAGTGAACCTAGTGTGAG
 CCCTGCCAATCAAAGGAGGCATCTTTTAGAGTTTTAGCAAAAAGAAAGTTAAAGACACGTCAGATGGTGAC
 AACAGAAAAACAGTTACAGATATGATCATTCTGTGTCCAATGACAAAGCCTTAATGGTGTAAAGTGAAG
 AACATTACTTTATCCCTCCACCTCCATGTACGCCCTCATTAAACACGACAGAGTCTCTCAGGTTGAA
 CCATGAACTTCGAGGCTGGGTTTATAGACATGAAGTGGAAAGGACCAAATCGAGAAGAATGACAAATAGC
 CAGCAGAAAACCCGATTCTCCAGGGTCTCTGGAACAGGGCTCGAATTCTCAGCTGATGGCTGTCCAGT
 ACACAGAAACCACTAGCATCAGTAGGAATTCTGGGAGTGAAGTGCAGGTGATTACGCTTCGCTGGAAG
 TTACCAAGGCTTCTTTGACGCCATCCGAGGAGGGGAGATACATTTTACGTCGTATCATTTCGAAGGGAT
 CACCTGCTATTACCAGCTACCACCATAACAAGACCACAAGCCGAAGATGTCCATTGTGTTACCAGCAA
 TAAACATAAATGATAACGTGATCAATGGCAGGATTATGAAGTAATGATGCAGATTGACTGTCAGGTCAT
 GGACACCAGGATCCTCCACATCAAAGCTCCTCGGTTCCCGCTATCTCCGAGATCATCAGAGAAACCAA
 ACCAGCACCTTCTCGGTTCCCTCCCACAGCCACAGAGACGACCATGTGGTCAGCACCCCTCCCTGAGT
 CCGTACAG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001107196
- Insert Size:** 1971 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).
- 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_001107196.1](#), [NP_001100666.1](#)

RefSeq Size: 3217 bp

RefSeq ORF: 1971 bp

Locus ID: 304962

UniProt ID: [G3V909](#)

Cytogenetics: 13q24

Gene Summary: Transmembrane glycoprotein of the endoplasmic reticulum that functions as a transcription activator and initiates the unfolded protein response (UPR) during endoplasmic reticulum stress. Cleaved upon ER stress, the N-terminal processed cyclic AMP-dependent transcription factor ATF-6 alpha translocates to the nucleus where it activates transcription of genes involved in the UPR. Binds DNA on the 5'-CCAC[GA]-3'half of the ER stress response element (ERSE) (5'-CCAAT-N(9)-CCAC[GA]-3') and of ERSE II (5'-ATTGG-N-CCACG-3'). Binding to ERSE requires binding of NF-Y to ERSE. Could also be involved in activation of transcription by the serum response factor. May play a role in foveal development and cone function in the retina (By similarity).[UniProtKB/Swiss-Prot Function]