

## Product datasheet for **MC220203**

### **Atf6 (NM\_001081304) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atf6 (NM_001081304) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atf6
Synonyms:	9130025P16Rik; 9630036G24; AA789574; Atf6alpha; ESTM49
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC220203 representing NM\_001081304  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGTCGCCTTTTAGTCCGGTCTTCTCATGGACCAGATGAAGACTGGGAGTCGACGTTGTTTGCTG  
 AACTTGGCTATTTACAGACACTGATGATGTGCACTTTGATGCAGCACATGAGGCTTATGAAAATAATTT  
 TGATCATCTTAATTTTGATTTGGATTTGATGCCTTGGGAGTCAGACCTATGGAGCCCCGGCAGCCACTTC  
 TGCTCAGACATGAAGGCAGAGCCCCAGCCTCTTCTCCGGCTTCTCCAGTTGCTCCATCTCCTCTCCTC  
 GGTCCACAGACTCGTGTCTTCAACTCAGCACGTTCTGAGGAGTTGGATTTGTTGTCTAGTTCTCAGTC  
 CCCCCTTCTTATATGGCGACAGCTGTAATAGCCCCTCTCTGTAGAGCCACTGAAGGAAGAGAAGCCT  
 GTCAGTGGTCTGGAAACAAAACAGAACATGGACTGACTCCAAAGAAAAAATTCAGATGAGTTCAAAAC  
 CTTTCAGTTCAGCCCAAGCCTTTATTACTTCCAGCAGCGCCCAAGACTCAAACCAATGCCAGTGTCCAGC  
 AAAAGCCATCATCATTACAGACTACCAGCCCTTATGCCACTGGCAAAGCAGCAGTGCATTATCAGCATA  
 CAGCCTGCGCCACCAAAGGCCAGACTGTTTTGCTCTCTCAGCCGACTGTGGTTCAACTCAGAGCCCTG  
 CGTTCGTCTGCTGCTCAGCCGGTCTTGCAGTCACTGGGGAGCCGCACAGCTACCTAACCATGTGGT  
 GAATGTGCTGCCAGCCCCTGTGGTGAGCAGCCGGTGAATGAAAACTTCCGTGACTAACCTGTTCTA  
 CAAAGTGCCACCAGAAGTATGGGTTCCGATATCGCTGTGCTGAGGAGACAGCAGCGGATGATAAAGAACC  
 GAGAGTCTGTTGTCAGTCGCGCAAGAAGAAGAAAGAGTATATGCTAGGACTGGAGGCCAGGCTCAAGGC  
 TGCCCTCTCAGAGAAATGAGCAGCTGAAGAAGGAGAATGGCTCCCTGAAGCGACAGCTGGACGAGGTGGT  
 TCAGAGAACCAGAGGCTCAAAGTCCAAGTCCAAGCGAAGAGCTGTCTGTGTGATAGTATTAGCAT  
 TTATAATGCTGAACTATGGGCCATGAGCATGCTGGAGCAAGAATCCCGAAGAGTAAAACCTAGTGTGAG  
 CCCTGCCAATCAGAGGAGGCATCTCTTGAATTTTCAGCAAAAAGAAGTTAAAGACACATCAGATGGTGAC  
 AACCGAAAAGACAGTTACAGCTATGATCACTCTGTGTCGAATGACAAAAGCTTTAATGGTGCTAAGTGAAG  
 AGCCATTGCTTTATATGCCTCCACCTCCATGTCAACCCCTGATTAACACAACAGAGTCTCTCAGGTTGAA  
 CCATGAACTTCGAGGCTGGGTTTCATAGACATGAAGTGAAAGGACCAAATCTAGAAGATGACAAAATAGC  
 CAACAGAAAGCCCGCATTCTCCAGGGTCTCTGGAACAGGGCTCTAATTCTCAGCTGATGGCTGTCCAGT  
 ACACAGAAACCACTAGCATCAGTAGGAATTCTGGGAGTGAGCTGCAAGTGTATTACGCCTCCCCTGGAAG  
 TTACCAAGGCTTCTTTGACGCCATCCGCAGGAGGGGAGATACGTTTTACGTTGTCTCATTTCGAAGGGAT  
 CATCTGCTATTACCAGCTACCACCCACAACAAGACCACAAGACCAAAAAATGTCAATTGTATTACCAGCAA  
 TAAACATAAATGATAATGTGATCAATGGCAGGACTATGAAGTAATGATGCAGATTGACTGTCAGGTGAT  
 GGACACCAGGATCCTCCACATCAAAGCTCCTCGGTTCCCCTTATCTCCGGGATCATCAGCGGAACCAA  
 ACCAGCACCTTCTTTGGTTCCTCCCAACAACCACAGAGACGACCATGTGGTCAGCACCATCCCTGAGT  
 CGTTGCAGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001081304  
**Insert Size:** 1971 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001081304.1</a> , <a href="#">NP_001074773.1</a>
<b>RefSeq Size:</b>	7463 bp
<b>RefSeq ORF:</b>	1971 bp
<b>Locus ID:</b>	226641
<b>UniProt ID:</b>	<a href="#">F6VAN0</a>
<b>Cytogenetics:</b>	1 76.96 cM
<b>Gene Summary:</b>	<p>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]</p>