

## Product datasheet for **MC201919**

### **Atf3 (NM\_007498) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atf3 (NM_007498) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atf3
Synonyms:	LRG-21
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC064799 sequence for NM\_007498  
 GGCTAACCCGCGCTCCGGCAGAGTCCTTGGCGCTCGCCCGCCGGCGGGACAGACCACCCGCTCTGGCCG  
 CTCTCTGGACCCTGGCCGCCCGAGCGAAGACTGGAGCAAAATGATGCTTCAACATCCAGGCCAGGTCTC  
 TGCCTCAGAAGTCAGTGCACCGCCATTGTCCCCTGCCTCTCACCTCTGGGTCACTGGTATTTGAGGAT  
 TTTGCTAACCTGACACCCTTTGTCAAGGAAGAGCTGAGATTGCCATCCAGAATAAACACCTCTGCCATC  
 GGATGTCTCTGCGCTGGAGTCAGTTACCGTCAACAACAGACCCCTGGAGATGTCAGTCACCAAGTCTGA  
 GGCGCCCTGAAGAAGATGAGAGGAAAAGAGGCGCGGAGAAAATAAAATTTGCTGCTGCCAAGTGT  
 CGAAACAAGAAAAGGAGAAGACAGAGTGCCTGCAGAAAGAGTCAGAGAACTGGAGAGTGTGAATGCTG  
 AGCTGAAGGCCAGATTGAGGAGCTGAAGAATGAGAAACAGCATTGATATACATGCTCAACCTGCACCG  
 GCCACCTGCATCGTCCGGGCTCAGAAATGGACGGACACCGGAAGACGAGAGGAACCTCTTTATCCAACAG  
 ATAAAAGAAGGAACATTGCAGAGCTAAGCAGAGGTGGCACGGAGGCAATTGGGGAGTTTCTACTGAATCC  
 TCCTTTTCCACCCACACCCCTGAAGCCATTGGAAAAGTGGCTTCTGTGCACTTCTAGAATCCCAGCAGC  
 CAAGAGCCGTTGGGGCAGGAGGGCTGTGGTGACCTACTGCATTGACCCACTCTGCCCCGAGTGAACCG  
 TGGAGCAGGCAGGAGCATCCTTTGTCTACCAATTCGGGATTTAGGCCCTATCATCCCGCCAGTCTCA  
 GATGACCTAGCTGCCCCAGGCTGGGGTCTATGCAAAGCAGGATCCCACTAATGGGATTCAGGCAGAAG  
 TGCTACCTTGATAGGTGGGGTGGGACCACATCTCCACTGTGGCTGACAACGCCCTTCAAGGGAATAT  
 GGAATGAGAACATTCAATTATTGAGGTTGTCCAATGGCCAGGGTATGCTTTCTAGAAAATATGCTGTTCTG  
 TCCCAGAATGACTGTGCATAGGGTATCCGTTTCAGAGCCTGGTGTGTGCTATTTAGATGTTTGTCTTGC  
 ACAACATTGGCATGATTTTTCCGGGAGTTTCATCAGATCTGATTTCTGAGAGTCTGGGGATCTGCCATGG  
 TGGAAAGTGCCCTCAAAAGCATTGTGTGGCCACATGAACTGGCTGGCACCCAGGGGAGTGAACTGGCT  
 GATGACCAGCTGAGCCACTTTGTGCCAACAGAGGATGGACGACACCTTCCCTGTACCCACTGCAGAGGA  
 AGAACCTGGGCACAGCAGCTTTGTCTTGGCTACAACTGTTACAACGTCACACAATGAAGGCACAAG  
 TCCAACCTTCAAAGGGTGTAGGACTCCATACTCAGTGACAGGGCAGGAAGAGCCAAAGATAACCACAGCC  
 ACAGCCTGTGGAGACCAGGGTTGGAAGCAGGTGCAAGGGCCAGGCATCTGCATTGTGGGATGTTAATGGC  
 ACTTTTGTCTGTAGCTATTTTGTAGATGTGGTCCAGAGCATTTCAGCTGGGAGATCTCCCTCTGGCCACC  
 AGGACTCTGGCTACTGTTAAAATCCTGATGTTTCTGTGGAATCCTCAGTGTTTAATCCCCTCAATAGTA  
 TCATTACAGTTTTCTGTAAGAGAAAATATTACTTATTTATCCCAGTATTCTAGCCTGTCAACATAATAA  
 ATATCGGAACAAAACCTGGTAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_007498

**Insert Size:** 546 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:** [BC064799](#), [AAH64799](#)

**RefSeq Size:** 1858 bp

**RefSeq ORF:** 546 bp

**Locus ID:** 11910

**UniProt ID:** [Q60765](#)

**Cytogenetics:** 1 96.28 cM

**Gene Summary:** This protein binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Represses transcription from promoters with ATF sites. It may repress transcription by stabilizing the binding of inhibitory cofactors at the promoter (By similarity).[UniProtKB/Swiss-Prot Function]