

## Product datasheet for **MG210116**

### Atf6b (NM\_017406) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atf6b (NM_017406) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atf6b
Synonyms:	AA617266; ATF6beta; Creb-rp; Creb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG210116 representing NM\_017406  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGAGCTGATGCTCCTCAGCGAGATCGCCGACCCGACGCGTCTTTCACCGACAACCTGCTGAGTC  
CGGAGGACTGGGACAGCACCTTGTACAGTGGCCTGGATGAAGTGCCGAGGAGCAGGCACAGTTGTTCCG  
TTGCGTGGAGCAGGATGTCCCGTTTGACAGCAGCTCTCTGGATGTGGGGATGGATGTCAGCCCCCTGAG  
CCCCCTGGGACCCTCTACCCATCTTCCAGATCTTCAGGTGAAGTCGAGCCATCCTCTCCCTGCTCGT  
CCTCTCCCTCAGCTCAGAGTCTCACATCTTCCACAGAGCCCCCAGCCAGGTCCTGGTGTAGGCGA  
GGTGTGCATGTGAAGATGGAGTCCCTGGCACCCCACTCTGCCTGCTGGGGATGATCCAGCATCCCC  
TTTGAACGGTCCAGATCACTGTGGCTCTGCCTCTGATGATCTTTCAGATATCCAGACCAAGCTGGAAC  
CTGCCTCTCCGTCTTCTGTCCACTCTGAGGCTCCTTGTGTGAGCAGACTCTCCAGTCAGCCTTT  
TATAGGAGAGGAGTTCTGGAAGTGAAGACAGAGTCTCCGTCCCCTCCAGGGTGCCTCCTGTGGGATGTC  
CCAGCCTCTTCGCTCGGAGCTGTCCAGATCAGCATGGGTCCATCCCCTGATAGTTCTCAGGGAAAGCTC  
CGGCCACTCGGAAGCCTCCACTGCAGCCCAAGCCTGTGGTACTAACCCACAGTTCCGGTGCCACCTAGAGC  
TGGGCCTACCAGCGCTGCCGTCTCTGCAACCCCTGGTCCAGCAGCCTGCGGTGTCCCCAGTGGTCTCTC  
ATCCAAGTGTATCCGAGTCCAGCCTGAAGGGCCAGCTCCCGCAGCTCCCGGCCCTGAGAGGAAGAGCA  
TTGTTCCAGCCCCATGCCGGGAACTCCTGCCCGCTGAAGTGGATGCAAAGCTGTTGAAGCGGCAGCA  
GCGGATGATCAAGAAATCGAGAGTCGGCTGCCAGTCCCGCCGAAGAAGAAAGAGTACCTGCAAGGCCTG  
GAGGCCCGGCTGCAGGCTGTGCTGGCCGACAACCAGCAGCTGCGCAGGGAGAACGCTGCCCTCCGGCGGC  
GGCTGGAGGCCCTGCTGGCAGAGAACAGCGGGCTCAAGCTGGGGTCTGGAACAGGAAGGTTGTCTGCAT  
CATGGTCTTCTTCTTTCATTGCCTTCAACTTTGGGCTGTGAGCATCAGCGAGCCGCTCCAGTCCC  
ATGTCTCCTCGGATGAGCAGGGAGGAACCTCGACCCAGAGGCACCTGCTGGGCTTCTCAGAACCAGGGC  
CAGCTCATGGCATGGAACCCCTTCGGAAGCCGCCAGAGCCCCGGGGAGCAGCAGCCAGCTCTGCAGG  
CAGGCCAGCTTCAGAAACCTGACGGCCTTCCCGGGGAGCCAAGGAGCTGCTGCTGAGAGACCTGGAC  
CAGCTCTTCTCTCCTCAGACTGTGCCATTTCAACCGAACTGAGTCTCTGAGGCTTGTGATGAGCTGA  
GTGGCTGGGTCCAACGTACCAGAGAGGTCGACGGAAGATACCTCACAGGGCCAGGAGAGACAGAAGTC  
TCAGCTACGGAAGAAGTCTCCTCAGTGAACCTGTCCCACCCAACCTCCAGGACCCCCGAAAGGGAC  
CCCGTGGGCCAGCTGCAGCTCTACGCCACCCCGCCGCTCGCAGCCGGAGTTTCTAGACGCAATTGACC  
GGAGGGAGGATACCTTCTATGTTGTCTCCTTCCGAAGGGACCACCTGCTGCTCCCAGCCATCAGCCACAA  
CAAGACATCCAGGCCAAGATGTCGCTGGTGTGTCAGCCATGGCCCCAATGAGACCGTGTGAGGCCGG  
GGCCCCCAGGGGACTATGAGGAGATGATGCAGATCGAGTGTGAGGTGATGGACACCAGGGTGATTACAA  
TCAAGACCTCTACGGTCCCCCTCGCTCCGGAAGCAGCCGTCCCATCCCCGGGCAATACCACAGGTGG  
CCCCTTGGCAGGCTCCGAGCTAGTCTGCCATCAGGCTCCAGCCCTTACCTCAATCACCCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210116 representing NM\_017406  
 Red=Cloning site Green=Tags(s)

MAELMLLSEIADPTRFFTDNLLSPEDWDSTLYSGLDEVAEEQAQLFRCVEQDVPFDSSSLDVGMDVSPPE  
 PPWDPLIFPDLQVKSEPPSPCSSSLSESSHLSTEPSPQVPGVGEVLHVKMESLAPPLCLLGDDPASP  
 FETVQITVGSASDDLSDIQTLEPASPSSSVHSEASLLSADSPSQFFIGEEVLEVKTESPSPPGCLLWDV  
 PASSLGAVQISMGPSPDSSSGKAPATRKPPPLQPKPVVLTTPVPPRAGPTSAAVLLQPLVQQPAVSPVVL  
 IQGAIRVQPEGPAPAAPRPERKSIVPAPMPGNPCPEVDKLLKRQRMINKNRESACQSRKKKEYLQGL  
 EARLQAVLADNQQLRRENAALRRRELAALLAENSGLKLGSNGRNVVCMVFLLFIAFNFGVPSISEPPPAP  
 MSPRMSREEPRQRHLLGFSEPGPAHGMEPLREAAQSPGEQQPSSAGRPSFRNLTAFFGGAKELLRLDLD  
 QLFLSSDCRHFNRTESLRLADELSGWVQRHQGRRKIPHRAQERQKSQLRKKSPPVKPVPTQPPGPPERD  
 PVGQLQLYRHPGRSQPEFLDAIDRREDTFYVVSFRRDHLLLPAISHNKTSRPKMSLVMPAMAPNETVSGR  
 GPPGDYEEMMQIECEVMDTRVIHIKTSTVPPSLRKQSPSPGNTTGGPLPGSAASPAHQASQPLYLNHP

TRTRPLE - GFP Tag - V

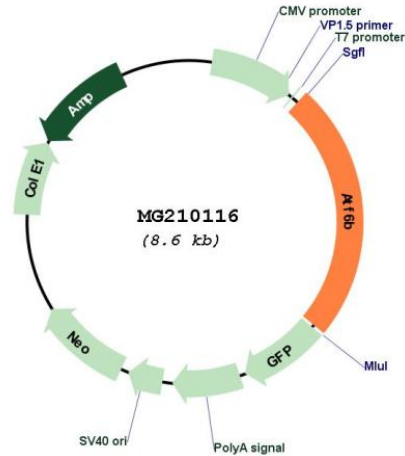
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** NM\_017406

**ORF Size:** 2097 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\\_017406.2](#), [NP\\_059102.1](#)

**RefSeq Size:** 2591 bp

RefSeq ORF: 2121 bp  
Locus ID: 12915  
Cytogenetics: 17 18.22 cM