

## Product datasheet for **MG215775**

### **Atf7ip2 (NM\_153123) Mouse Tagged ORF Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Tag:</b>	TurboGFP
<b>Symbol:</b>	Atf7ip2
<b>Synonyms:</b>	4930558K11Rik; BC018510; Get-1; PSM2
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-AC-GFP (PS100010)
<b>E. coli Selection:</b>	Ampicillin (100 ug/mL)



**ORF Nucleotide Sequence:** >MG215775 representing NM\_153123  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGAAAGTCCAGACAGAAAAACAGAGAAGGTTTTAAAGGCCAAGAAAAACAATGCCTACAAGTTACCAGA  
 AGCAGTTGGAGATCCTGAACAAGTCAACGAATGTTGAAGCTCCAAAAACAACAGTTGGAACTAATATTCC  
 AAATGGTCATAATCAGAAGATGTTTTCAAAAAACAAGAAAATGTTAAGGTCATGAAAGTTTCAGAGCAA  
 ATTAATGAAAATGCTTGTGGGGCTCTGGAAAGACATACAGCACTGCTAGAACAGGTTAAACATTGGATTG  
 GACAGGAGATTTGCATGATAAACTGTAATTTATTTGATAAAAACTGAATGAATTGAATGAACGCATTGG  
 GAAGACCCAGTGC AAGAGTAGACATGAAGCAATAGCTGGTGAATCTTTGTAAAAATAAGAAGACTTCAA  
 AAACGCATCAAAACAGTATTATCATCTCAAAGAAATGTTTGAACCAAAACACATTACCCAGTAATACAG  
 TCTGTAAGGTTACAGATTCAGAGGCTATGAATTTGAATGTGACCCAAAAGTCAGTAAAAGTCGAAGTAA  
 AAGAATATCTTCTGTGAACCATACCCCTTTAAACTCTTCAGAAAAAGCAGGTAGAAAAGACTAATTTGCCA  
 TCAACTTGTGTGAGTTTGCTTCTGAAAGTAACTGATGACGTTATGTTGATTCTGTGAAAAATTCTA  
 ATTTGACAACCTCAATTACATCAGAGCAAAACAGAAATTAGAAAAATACATCAAGAAATTTGAGCAACTC  
 ACCTAATAGCATGATTAAGTTGGGCCCTAGAGAAGAAATTTGATTTTGTATTGACTTGACAAGAGAA  
 GGCCCGTCCAACACAGCATAGAAAAGCCATCTTCCACCTGAAGTCAACTTCGAAAGCTGTTTTAAGAT  
 CAAAAGAAAATAATCCAGTGGCAGAAAATGGAAATGAGGGTTTTGGTTCAATTTGAACACCTTCCACCTCT  
 CCCAGAGCCACCAGCACCCTCCCTGAGATGGCAGACAAAATCAAAGATACACTTCCCTCCCAAAAGCCT  
 GAGCTGAAAGTGAAGTGGGTGCTGAGGCCACAAGCATTGCCCTGACATGGAACATCCCAAGGTCAACC  
 CCAACTGTGCGCCTGTGGAGAGTTACCACCTCTCCTGTACTATGAGAAGTCTGATCACTTGACGTGAA  
 GAAAATTGCAGAAATTAAGCTTTACCACTTCCATGGCTTGACACCTTATCTCAGAAATTTAGCTTCTACC  
 AAGTATTATTTGCTGTCCAGTCAAAGACATTTTTGGGAGATATGGACATTTTGTAAATATCAAATCTA  
 TTCCTAGGTTTTCTGAAAACCTTACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG215775 representing NM\_153123  
 Red=Cloning site Green=Tags(s)

MESPRKRQKVLKAKKTMPTS YQKQLEILNKSTNVEAPKTTVGTNIPNGHNQKMF SKNKENVKVMK VSEQ  
 INENACGALERHTALLEQKHWIRQE ICMINCNLFDKKLNELNERIGKTQCKSRHEAIAGELFVKIRRLQ  
 KRIKTVLSSQRNCLPNTLPSNTVCKVTDSEAMNLNVTQKSVKRSKRIS SVNHTPLNSSEKAGRKTNLP  
 STCVFEFASESNTDDVMLISVKNSNL TTSITSEQTEIRKNTSRNLSNPNMIVGPVVEKFFDFVIDL TRE  
 GPSNYSIESPSTLTKSTSKAVLRSKEIIPVAENEGFGSFEHL PPLPEPPAPLPEMADKIKD TLPQPKP  
 ELKVKWVLRPTSIALTWNIPKVNPNCAPVESYHLFLYENS DHLTWKKIAEIKALPLPMACTLSQN LAST  
 KYFFAVQSKDIFGRYGPFCNIKSI PRFSENLT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_153123

**ORF Size:** 1356 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](#)

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_153123.2](#), [NP\\_694763.2](#)

**RefSeq Size:** 2584 bp

**RefSeq ORF:** 1359 bp

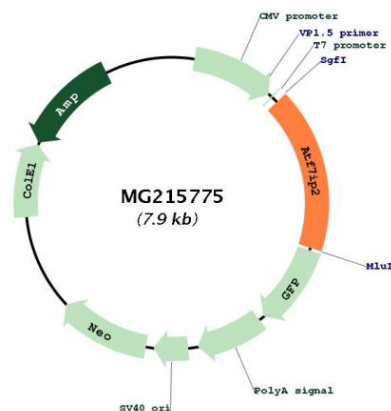
**Locus ID:** 75329

**UniProt ID:** [Q3UL97](#)

**Cytogenetics:** 16 A1

**Gene Summary:** Recruiter that couples transcriptional factors to general transcription apparatus and thereby modulates transcription regulation and chromatin formation. Can both act as an activator or a repressor depending on the context. Mediates MBD1-dependent transcriptional repression, probably by recruiting complexes containing SETDB1. The complex formed with MBD1 and SETDB1 represses transcription and probably couples DNA methylation and histone H3 'Lys-9' trimethylation (H3K9me3) activity (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG215775