

## Product datasheet for **MG223254**

### Atf1 (NM\_007497) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atf1 (NM_007497) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223254 representing NM_007497 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGATTCCCACAAGAGTAACACGACAGAGACTGCATCTCAGCCTGGTTCAACCGTTGCGGGGCCTC  
ACGTTTTCAGATAGTACATCAGGTGTCATCGTTATCAGAAAGTGAGGAGTCTCAGGACTCATCTGACAG  
CATAGGCTCCTCACAGAAAGCTCACGGGATCCTGGCCCGGCCCATCTACAGGAAAATTTGAAAGAC  
CTCTCTTCTGAAGATACACGGGGCAGAAAAGGGGAAGGAGAAAATCCCAGCATTCTGCCATCACGTCTA  
TGTCTGTTCCAGCCCCATCTATCAGACGAGCAGCGGACAGTACATTGCCATTGCCCAAACGGAGCCTT  
ACATTTGGCCAGTCCAAGCACGGATGGAGTGCAGGCACTGCAGACATTAACCATGACAAAATCAAGCAGT  
ACTCAGCAGGGGACGATCCTCCAGTATGCACAGACCTCTGACGGACAGCAGATACTCGTCCCGAGCAACC  
AGGTGGTGTACAGACTGCATCAGGAGATATGCAGACCTACCAGATCCGTACCACGCCATCTGCCACGTC  
TCTCCACAGACCGTGGTGATGACTTCTCCTGTGACTCTTACATCTCAGACAACAAGACAGATGACCCCT  
CAACTAAGAAGAGAAATACGACTGATGAAAAACAGAGAAGCTGCCCGAGAGTGCCCGCGGAAGAAGAGG  
AGTACGTGAAGTGCCTGGAGAACCCTGTTGCTGTTCTGGAAAATCAAAAATAAACTCTAATAGAGGAGCT  
AAAGACTTTGAAGGACCTTTATTCTCATAAAAGTGTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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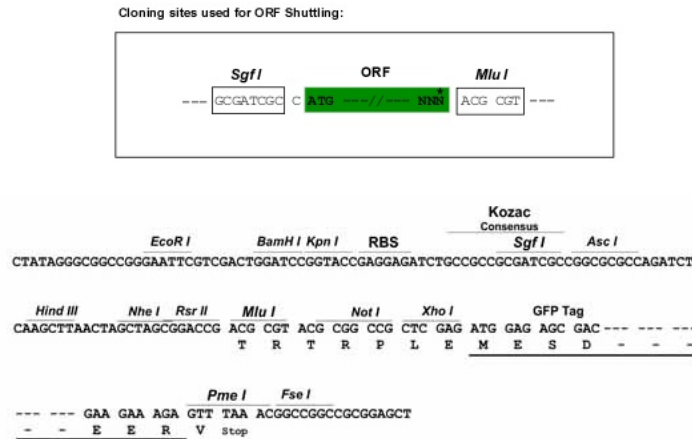
**Protein Sequence:** >MG223254 representing NM\_007497  
 Red=Cloning site Green=Tags(s)

MEDSHKSNTTETASQPGSTVAGPHVSQIVHQVSSLSESEESQDSSDSIGSSQKAHGILARRPSYRKILKD  
 LSSDTRGRKGEENPSISAITSMSVPAPIYQTSSGQYIAIAPNGALHLASPSTDGVQALQTLTMTNSSS  
 TQQGTILQYAQTSQGQILVPSNQVVVQTASGDMQTYQIRTPSATSLPQTVVMTSPVTLTSQTTKTDPP  
 QLRREIRLMKNREAARECRRKKKEYVKLENRVAVLENQNKTLIEELKTLKDLYSHKSV

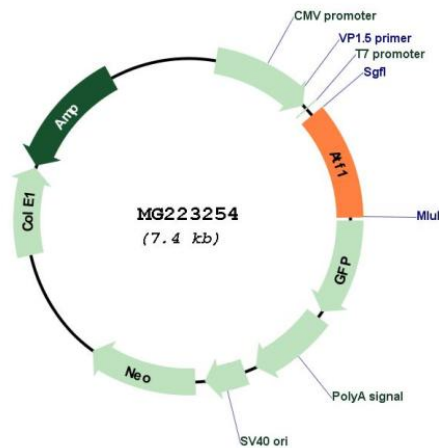
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_007497

**ORF Size:** 807 bp

<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_007497.2</a>
<b>RefSeq Size:</b>	2329 bp
<b>RefSeq ORF:</b>	810 bp
<b>Locus ID:</b>	11908
<b>UniProt ID:</b>	<a href="#">P81269</a>
<b>Cytogenetics:</b>	15 F1
<b>Gene Summary:</b>	Binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Binds to the Tax-responsive element (TRE) of HTLV-I. Mediates PKA-induced stimulation of CRE-reporter genes. Represses the expression of FTH1 and other antioxidant detoxification genes. Triggers cell proliferation and transformation (By similarity).[UniProtKB/Swiss-Prot Function]