

## Product datasheet for **MR206498**

### Atf7 (NM\_146065) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atf7 (NM_146065) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atf7
Synonyms:	1110012F10Rik; 9430065F09Rik; AI549878; C130020M04Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206498 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGAGACGACAGACCGTTTGTGTGCAGTGCCCCGGGCTGTGGACAGAGATTTACAAATGAGGACCACC  
TGGCAGTTCATAAACATAAGCATGAGATGACACTGAAATTTGGCCAGCCGAACGGACTCAGTCATCAT  
TGCAGATCAAACGCCTACTCCAAGTATGATTCCTGAAGAACTGTGAGGAAGTGGGGCTCTTCAATGAACTA  
GCTAGCTCCTTTGAACATGAATTAAGAAAGCTTCTGATGACGATGAGAAAAAGGGTCTGCTGGCCCTC  
TTGACATGTCTCTGCCTTCTACACCAGACATCAAATCAAGGAAGAAGAGCCAGTGAAGTGAAGTACTC  
GCCCTGACAGTCTGCTTCTAGCCCTGTCCCAACCACTGAAGGAGAAGGAAGTACCACAAAACCG  
GTTGTGATCTCTACCCCTACACCTACCATTGTACGTCCTGGCTCCCTGCCTCTCCACTTAGTTATGATC  
CACTTCATCCAAGTCTTCTTCCCAACCTCTGTGCATCACACAGGCTCCACCATCCAACAGGCAAAATAGG  
ATCTCCTACTGGCTCCCTCCCTCTCGTCATGCATCTTGTAAATGGACAGACCATGCCTATGTTGCCAGGG  
CCTCCAGTACAGATGCCTTCTGTTATTTTCGCTGGCCAGACCTGTGTCCATGGTGCCCAACATTCTGGTA  
TACCTGGCCACCGGTTAACAACAGTGGCTCCATTTCTCCCTCTGGCCACCCTATGCCGTGAGAAGCCAA  
AATGAGACTAAAAGCCACGCTGACCCATCAAGTTTCTTCAATCAATGGAGTTGTGGAATGGTGGTGGGT  
ACTGCAAGCACCATGGTACTGCCCGTCCAGAGCAAAACCAGATCCTCATCCAGCACCAGATGCCCAT  
CCCTGCCAGCCACAGTCTCTCCAGCTCAGCCACCCCTAGCACTGGGGGACGGCGACGGCGTACAGT  
GGATGAAGATCCAGATGAGCGGGCGCAGCGTTTTTAGAGCGAAACAGAGCTGCAGCCTCTCGATGCCGG  
CAAAAGCGGAAACTGTGGGTGTCCTCCCTGAAAAAGAAGGCAGAAGAAGTACTTCTCAGAACATTCAGC  
TGAGTAATGAAGTACATTACTACGCAATGAGGTGGCTCAGCTGAAGCAGCTACTGTTAGCTCATAAAGA  
TTGCCAGTCACTGCACTACAGAAAAAGACTCAAGGCTACCTAGGTAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206498 protein sequence  
Red=Cloning site Green=Tags(s)

MGDDRPFVCSAPGCGQRFNEDHLAVHKHKHEMTLKFGPARTDSVIIADQTPTRFLKNCEEVGLFNEL  
 ASSFEHEFKASDDDEKGAAGPLDMSLPSTPDIKIKEEPEVVDSSPPDSPAASSPCSPPLKEKEVTTKP  
 VVISTPTPTIVRPGSLPLHLGYDPLHPTLPSPSTSVITQAPPSNRQIGSPTGSLPLVMHLANGQTMPMLPG  
 PPVQMPSVISLARPVSMVPNIPGIPGPPVNNSGSISPSGHPMPSEAKMRLKATLTHQVSSINGGCGMVVG  
 TASTMVTARPEQNQILIQHPDAPSPAQPQVSPAQPTPSTGGRRRRRVDEDPDERRQRFLERNRAAASRCR  
 QKRKLWSSLEKKAEEELTSQNIQLSNEVTLLRNEVAQLKQLLLAHKDCPV TALQKKTQGYL GK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_146065

**ORF Size:** 1242 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\_146065.1, NP\_666177.1

**RefSeq Size:** 2867 bp

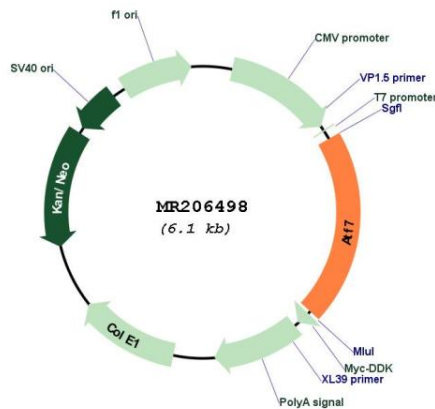
**RefSeq ORF:** 1242 bp

**Locus ID:** 223922

**Cytogenetics:** 15 F3

**MW:** 44.6 kDa

**Product images:**



Circular map for MR206498