

Product datasheet for MR201634

Atf3 (NM_007498) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atf3 (NM_007498) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Atf3
Synonyms: LRG-21
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201634 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGCTTCAACATCCAGGCCAGGTCTCTGCCTCAGAAGTCAGTGCGACCGCCATTGTCCCCTGCCTCT
 CACCTCTGGGTCACTGGTATTTGAGGATTTTGTAACTGACACCCTTTGTCAAGGAAGAGCTGAGATT
 CGCCATCCAGAATAAACACCTCTGCCATCGGATGTCTCTGCGCTGGAGTCAGTTACCGTCAACAACAGA
 CCCCTGGAGATGTCAGTCACCAAGTCTGAGGCGGCCCTGAAGAAGATGAGAGGAAAAGGAGCGCGCAG
 AAAGAAATAAAATTGCTGCTGCCAAGTGTGAAACAAGAAAAGGAGAAGACAGAGTGCCTGCAGAAAGA
 GTCAGAGAACTGGAGAGTGTGAATGCTGAGCTGAAGGCCAGATCGAGGAGCTGAAGAATGAGAAACAG
 CATTTGATATACATGCTAACCTGCACCGGCCACCTGTATCGTCCGGGCTCAGAATGGACGGACACCGG
 AAGACGAGAGGAACCTCTTTATCCAACAGATAAAAGAAGGAACATTGCAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201634 protein sequence
 Red=Cloning site Green=Tags(s)

MMLQHPGQVSASEVSATAIVPCLSPPGSLVFEDFANLTPFVKEELRFAIQNKHLCHRMSALESVTVNNR
 PLEMSVTKSEAAPEEDERKRRRRERENKIAAAKCRNKKKEKTECLQKSEKLESVNAELKAQIEELKNEKQ
 HLIYMLNLHRPTCIVRAQNGRTPEDERNLFIQQIKEGTLQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_007498

ORF Size: 543 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 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_007498.2](#), [NP_031524.2](#)

RefSeq Size: 1981 bp

RefSeq ORF: 546 bp

Locus ID: 11910

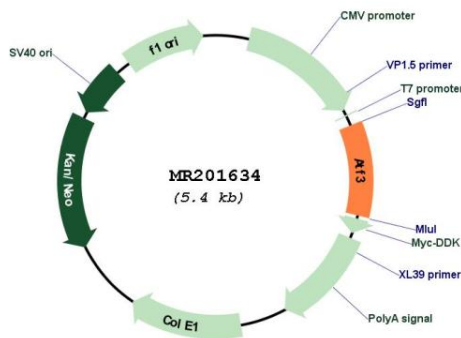
UniProt ID: [Q60765](#)

Cytogenetics: 1 96.28 cM

MW: 20.7 kDa

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]

Product images:



Circular map for MR201634