

Product datasheet for MG201634

Atf3 (NM_007498) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

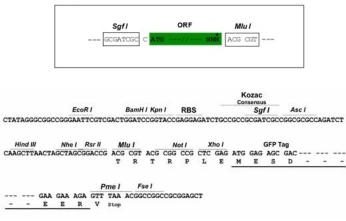
Product Type:	Expression Plasmids
Product Name:	Atf3 (NM_007498) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atf3
Synonyms:	LRG-21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>MG201634 representing NM_007498 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGATGCTTCAACATCCAGGCCAGGTCTCTGCCTCAGAAGTCAGTGCGACCGCCATTGTCCCCTGCCTCT CACCTCCTGGGTCACTGGTATTTGAGGATTTTGCTAACCTGACACCCTTTGTCAAGGAAGAGCTGAGATT CGCCATCCAGAATAAACACCTCTGCCATCGGATGTCCTCTGCGCTGGAGTCAGTTACCGTCAACAACAGA CCCCTGGAGATGTCAGTCAGTCACAAGTCTGAGGCGGCCCCTGAAGAAGATGAGAGGAGAAAAGGAGGGGCGGCGAG AAAGAAATAAAATTGCTGCTGCCAAGTGTCGAAACAAGAAAAAGGAGAAGAAGAGAGGAGGAGCGGCGAG GTCAGAGAAACTGGAGAGTGTGAATGCTGAGCTGA
Protein Sequence:	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA >MG201634 representing NM_007498 Red=Cloning site Green=Tags(s)
	MMLQHPGQVSASEVSATAIVPCLSPPGSLVFEDFANLTPFVKEELRFAIQNKHLCHRMSSALESVTVNNR PLEMSVTKSEAAPEEDERKRRRERNKIAAAKCRNKKKEKTECLQKESEKLESVNAELKAQIEELKNEKQ HLIYMLNLHRPTCIVRAQNGRTPEDERNLFIQQIKEGTLQS
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul



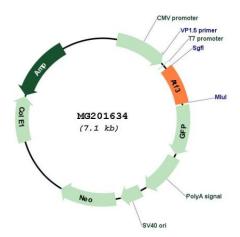
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Cloning Scheme:





Plasmid Map:



ACCN:	NM_007498
ORF Size:	543 bp

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Mouse Tagged ORF Clone - MG201634

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 <u>custsupport@origene.com</u> 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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 007498.2, NP 031524.2</u>
RefSeq Size:	1990 bp
RefSeq ORF:	546 bp
Locus ID:	11910
UniProt ID:	<u>Q60765</u>
Cytogenetics:	1 96.28 cM
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]

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