

Product datasheet for **MC206147**

Atf7ip (BC052460) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atf7ip (BC052460) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atf7ip
Synonyms:	2610204M12Rik; AM; Mcaf1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC052460

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GCGGTGGCGGCGAGTGGAGCGCACGGCTGAGACGGCAGCGTCCGGGACGGCTGCACGGGACGGCTGCGTA
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TGAGGAAGAGGAGCGAGTTCAGCCGAGGAGCAGCCACCTGTGAGAAATGAGTTTTCTAGACGAAAACGT
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Restriction Sites:

Ascl-NotI

ACCN:

BC052460

Insert Size:

3921 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC052460](#), [AAH52460](#)

RefSeq Size: 4543 bp

RefSeq ORF: 3921 bp

Locus ID: 54343

Cytogenetics: 6 G1

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 (PubMed:10777215). Required for HUSH-mediated heterochromatin formation and gene silencing (By similarity). Mediates MBD1-dependent transcriptional repression, probably by recruiting complexes containing SETDB1. Stabilizes SETDB1, is required to stimulate histone methyltransferase activity of SETDB1 and facilitates the conversion of dimethylated to trimethylated H3 'Lys-9' (H3K9me3). The complex formed with MBD1 and SETDB1 represses transcription and couples DNA methylation and histone H3 'Lys-9' trimethylation (H3K9me3) (PubMed:14536086). Facilitates telomerase TERT and TERC gene expression by SP1 in cancer cells (By similarity).[UniProtKB/Swiss-Prot Function]