

## Product datasheet for MC205262

### Atf4 (NM\_009716) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atf4 (NM_009716) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atf4
Synonyms:	Atf-4; C/ATF; CREB2; TAXREB67
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC085169

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CTTTTCTCATGGGCGCTTTAGGACGATCTCTAACGCCACAGTTACCCCGGAGCACAGCGGAGAAGGG
TTGGGGCGGGCGAGGGCGTCAGTGAGAGCGGTTTGGTGGCGCTGCGGTAGGATCACGTGACCACAGTGG
GAGGATACGCGGTGTGCTGCGTCCCTGGCCGAGGCTATAAAGGGCGGGTTTAGGGCGTGCCGCCCAT
TCTGCTTGCTGTCTGCCGTTTAAAGTTGTGTGCTCGGGTGTCCCTTTCCTCTTCCCTCCCGCAGGGCTT
GCGGCCACCATGGCGTATTAGAGGCAGCAGTGCCTGCGGCAGCGTTGGCCTTTCAGCGCGGCAGCAGC
ACCAGGCTCTGCAGCGGCAACCCCAACCGGCTAAGCCATGGCGCTTTCACGAAATCCAGCAGCAGTGT
TGCTGTAACGGACAAAGATACCTTCGAGTTAAGCACATTCCTCGAATCCAGCAAAGCCCCACAACATGAC
CGAGATGAGCTTCTGAACAGCGAAGTGTGGCGGGGACTTGATGTCCCTTCGACCAGTCGGGTTTG
GGGGCTGAAGAAAGCCTAGGTCTCTTAGATGACTATCTGGAGGTGCCAAGCACTTGAAACCTCATGGGT
TCTCCAGCGACAAGGCGGCTCCTCGGAATGGCCGGCTATGGATGATGGCTTGGCCAGTGCCTCAGACAC
CGCAAGGAGGATGCCTTTCCGGGACAGATTGGATGTTGGAGAAAATGGATCTGAAAGAGTTTGACTTC
GATGCTCTGTTTGAATGGATGACCTGGAAACCATGCCAGATGAGCTCTTGACCAGTGGATGACACAT
GTGATCTTTTTGCCCTTAGTCCAAGAGACTAATAAGGAGCCCCCTCAGACAGTGAACCAATTGGCCA
TCTCCAGAAAGTTAATAAAAAGTCGACCAGGTTGCCCTTTACATTCTTGACGCTTTCCCTGTTCC
CCAGGGTTCTGTCTTCCACTCCAGAGCATTCTTTAGTTTAGAGCTAGGCAGTGAAGTTGATATCTCTG
AAGGAGACAGGAAGCCTGACTCTGCTGCTTACATTACTCTAATCCCTCCATGTGTAAGGAGGAAGACAC
TCCCTCTGACAATGACAGTGGCATCTGTATGAGCCCAGAGTCTACCTGGGCTCTCCCAGCATAGCCCC
TCCACCTCAGGGCCCCACCAGACAATCTGCCTTCTCCAGTGGTTCCTGGGCTCCTCGGCCAAAC
CTTATGACCCACCTGGAGTTAGTTTACAGCTAAAGTGAAGACTGAGAAAATTGGATAAAGAAGCTGAAAA
GATGGAGCAAAACAAGACAGCAGCCACTAGGTACCGCCAGAAGAAGCGGGCTGAGCAGGAGGCCCTCACT
GGCGAGTGTAAAGGAGCTAGAAAAAAGAATGAGGCTCTGAAAGAGAAGGCAGATTCTTGCCCAAGGAGA
TCCAGTATCTGAAAGACCTGATAGAAGAGGTCCGTAAAGCAAGGGGAAGAAGAGAGTTCGGTAATAGGG
TAGTCAGGTGCTTTGTGCTTGTACATAGTCTTGTGTTGCTGTGTTTGTGTAATAAATTATTTGTAGTG
AAAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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<b>Restriction Sites:</b>	Ascl-NotI
<b>ACCN:</b>	NM_009716
<b>Insert Size:</b>	1050 bp
<b>OTI Disclaimer:</b>	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).
<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="#">BC085169</a> , <a href="#">AAH85169</a>
<b>RefSeq Size:</b>	1717 bp
<b>RefSeq ORF:</b>	1050 bp
<b>Locus ID:</b>	11911
<b>UniProt ID:</b>	<a href="#">Q06507</a>
<b>Cytogenetics:</b>	15 37.85 cM
<b>Gene Summary:</b>	<p>Transcriptional activator. Binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Binds to asymmetric CRE's as a heterodimer and to palindromic CRE's as a homodimer. Cooperates with FOXO1 in osteoblasts to regulate glucose homeostasis through suppression of beta-cell production and decrease in insulin production. Regulates the induction of DDIT3/CHOP and asparagine synthetase (ASNS) in response to ER stress. In concert with DDIT3/CHOP, activates the transcription of TRIB3 and promotes ER stress-induced neuronal apoptosis by regulating the transcriptional induction of BBC3/PUMA. Activates transcription of SIRT4. Regulates the circadian expression of the core clock component PER2 and the serotonin transporter SLC6A4. Binds in a circadian time-dependent manner to the cAMP response elements (CRE) in the SLC6A4 and PER2 promoters and periodically activates the transcription of these genes. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.</p>