

Product datasheet for **MC200374**

Eif4ebp1 (NM_007918) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4ebp1 (NM_007918) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eif4ebp1
Synonyms:	4e-bp1; AA959816; PHAS-I
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC002045 sequence for NM_007918 CGGACGCGTGGGCGGGTGGCTGGAGGGTCGTGGGCGCGTGCAGGAGACATGTCGGCGGGCAGCAGCTG CAGCCAGACTCCCAGCCGGGCCATCCCCACTCGCCGCGTAGCCCTCGGCGATGGCGTGCAGTCCCAGCC GGGGACTACAGCACCCTCCGGGCGGCACGCTCTTCAGCACCACCCCGGAGGAACCAGGATTATCTATG ACCGGAAATTTCTGATGGAGTGTGGAACCTCACCTGTGGCCAAAACACCCCAAAGGACCTGCCAGCCAT TCCTGGGGTCACTAGCCCTACCAGCGATGAGCCTCCCATGCAAGCCAGCCAGAGCCAAGTCCCAGCAGC CCGGAAGATAAGCGGGCAGGCGGTGAAGAGTCACAATTTGAGATGGACATTTAAGGGACCAGCCGTAGGA CGCAATGATGCTTCTATGCCCCAAGGCCCTTGGGAGGAGAGCTGCACAGCATTAGGCCTCATAACCG GCAGACTGGGTGTGGTGGCCACCCAGTCTGCTCCTCACTCAGGGTCCAGCTCTGCCTTGAATTT TGTGAACACCAGCACATACCTCCTTGTGCCTCTGTCTATACCGAGCTGCTACTGCAGGGGAATGACTCTC ACTCACACCTCCCTGCATGGAGCTCCAGCGAGTGGACTCAGAGGAGTCTATCAGAAATGATCTGGCAATC CTAGCCCCAGCCTCCGGAGCACACCCATCTTTCCTTAGGCTGGGTACCTGGGAAAGCCACACTTTTACT TCTTCCCTGACAGGAAATAAAGCCACATTTACCTAAAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_007918
Insert Size:	354 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).



[View online »](#)

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: [BC002045](#), [AAH02045](#)

RefSeq Size: 823 bp

RefSeq ORF: 354 bp

Locus ID: 13685

UniProt ID: [Q60876](#)

Cytogenetics: 8 15.95 cM

Gene Summary: Repressor of translation initiation that regulates EIF4E activity by preventing its assembly into the eIF4F complex: hypophosphorylated form competes with EIF4G1/EIF4G3 and strongly binds to EIF4E, leading to repress translation. In contrast, hyperphosphorylated form dissociates from EIF4E, allowing interaction between EIF4G1/EIF4G3 and EIF4E, leading to initiation of translation (By similarity). Mediates the regulation of protein translation by hormones, growth factors and other stimuli that signal through the MAP kinase and mTORC1 pathways (PubMed:7629182).[UniProtKB/Swiss-Prot Function]