

## Product datasheet for **MC216614**

### Zfp36l2 (NM\_001001806) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp36l2 (NM_001001806) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Zfp36l2
Synonyms:	Brf2; ERF2; Tis11d
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216614 representing NM\_001001806  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGTGCAGCACACTTCTGTACCCTTCTACGATATCGACTTCTTGTGCAAGACGGAGAAATCCCTGGCAA  
 ACCTCAATCTGAACAACATGCTGGACAAGAAGGCGGTAGGGACGCCCGTGGCTGCTGCCCCAGCTCGAG  
 CTTCACTCCGGGTTCTCTGCGACGCCACTCCGCCAGAACCTCCACGCGTTGCCACCCTGTGCCAGT  
 CCGGGCAGCTGCTCGCCGAAGTCCCGGGCGCCCTAACGGCGGCGGAGCAGCTGTGGCCCGCAGGCG  
 GAGGCGGTCTGGCCTCTACGGCCAGCTCAAGGAGCCTTCGGGGGCGAGCGGCACGGCGTGGTACCAA  
 GGAGAGCAAATTCGGGACCGCTCGTTCAGCGAGAACGGGAGCGCAGCCAGCACCTCTGCACCTGCAG  
 CAGCAGCAGAAGGGGGCAGCGGCTCCAGATCAACTCCACGCGCTACAAGACGGAGCTGTGCCGGCCCT  
 TCGAGGAGAGCGGCAGTCAAGTACGGCGAGAAGTGCCAGTTCCGCGACGGCTCCACGAGCTGCGCAG  
 CCTCACCCGGCACCCCAAGTACAAGACAGAGCTGTGCCGACCTCCACACCATCGGCTTCTGCCCTAC  
 GGCCCGCGCTGCCACTTCATCCACAACGCGGACGAGCGGCGGCCCGCGCTCGGGGGCGGCGGCGCCT  
 CCGGGGACCTGCGAGCGTTTGGCGCACGCGACGCGCTACACCTAGGCTTCGCCCGCGAGCCGCGGCCAA  
 GCTGCATCACAGCCTCAGTTTCTCCGGTTCCTCGGGCCACCACCAGCCCGGGGGGCTGGAGTCG  
 CCGCTGCTGCTCGACAGCCCCACATCGCGCACGCCGCGCCGCGCCTCCTCCTCGGCTCGTCTGTCTCT  
 CCTCGGTTCTTCTGCTCTTCCGCTCGGCGGCTCCACGCCCTCGGGCGCCCCGACGTGCTGCGCCAC  
 GGGCGGCGGCGCGCTGCTCTACGGCCCCGGGGCGCGGAGGACCTGCTGAGCCCCGGAGCGCCGTGC  
 GCCTCCTGCTCGTCTCCGGCGCTAACACGCCTTCGCTTTCGGCCGGAGCTGAGCAGCCTCATCACGC  
 CGCTCGCATCCAGACCACAACCTTCGGCGCGGCGCGCCGCGCTACTACCGCAACCAGCAGCAGGG  
 CCTGACCGGTCCCGCGCCACCCCGGCACAGCCCCCGCGGCCCGCGCGCCCTCCCGCCCTTCGCGC  
 TTCAGCTGCGCGCGCTGTGTCGAGTCCGCGTGTTCGACGCGCCCCAGCCCCGGACTCGCTCT  
 CGGACCGCAGAGCTACCTGAGCGGCTCGTGTGAGCTCCGGCAGCCTCAGCGGCTCCGAGTCCCCAGCCT  
 GGACCCTGGCGTCGCTACCATCTTCAGCCGCTCTCCATCTCCGACGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001001806

**Insert Size:** 1455 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: [BC139416](#), [AAI39417](#)

RefSeq Size: 2129 bp

RefSeq ORF: 1455 bp

Locus ID: 12193

UniProt ID: [P23949](#)

Cytogenetics: 17 E4

**Gene Summary:** Zinc-finger RNA-binding protein that destabilizes several cytoplasmic AU-rich element (ARE)-containing mRNA transcripts by promoting their poly(A) tail removal or deadenylation, and hence provide a mechanism for attenuating protein synthesis (PubMed:22701344, PubMed:22367205, PubMed:25505318, PubMed:24830504, PubMed:27102483). Acts as a 3'-untranslated region (UTR) ARE mRNA-binding adapter protein to communicate signaling events to the mRNA decay machinery (By similarity). Functions by recruiting the CCR4-NOT deadenylase complex and probably other components of the cytoplasmic RNA decay machinery to the bound ARE-containing mRNAs, and hence promotes ARE-mediated mRNA deadenylation and decay processes (By similarity). Binds to 3' UTR ARE of numerous mRNAs (PubMed:22701344, PubMed:22367205, PubMed:25505318, PubMed:24830504). Promotes ARE-containing mRNA decay of the low-density lipoprotein (LDL) receptor (LDLR) mRNA in response to phorbol 12-myristate 13-acetate (PMA) treatment in a p38 MAPK-dependent manner (By similarity). Positively regulates early adipogenesis by promoting ARE-mediated mRNA decay of immediate early genes (IEGs) (PubMed:22701344). Plays a role in mature peripheral neuron integrity by promoting ARE-containing mRNA decay of the transcriptional repressor REST mRNA (PubMed:25505318). Plays a role in ovulation and oocyte meiotic maturation by promoting ARE-mediated mRNA decay of the luteinizing hormone receptor LHCGR mRNA (PubMed:24830504). Acts as a negative regulator of erythroid cell differentiation: promotes glucocorticoid-induced self-renewal of erythroid cells by binding mRNAs that are induced or highly expressed during terminal erythroid differentiation and promotes their degradation, preventing erythroid cell differentiation (PubMed:19633199, PubMed:23748442). In association with ZFP36L1 maintains quiescence on developing B lymphocytes by promoting ARE-mediated decay of several mRNAs encoding cell cycle regulators that help B cells progress through the cell cycle, and hence ensuring accurate variable-diversity-joining (VDJ) recombination process and functional immune cell formation (PubMed:27102483). Together with ZFP36L1 is also necessary for thymocyte development and prevention of T-cell acute lymphoblastic leukemia (T-ALL) transformation by promoting ARE-mediated mRNA decay of the oncogenic transcription factor NOTCH1 mRNA (PubMed:20622884).[UniProtKB/Swiss-Prot Function]