

Product datasheet for **RC210053**

EIF4EBP3 (NM_003732) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: EIF4EBP3 (NM_003732) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: EIF4EBP3
Synonyms: 4E-BP3; 4EBP3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC210053 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAACGTCCACTAGCTGCCGATCCCGGGGCGGGACCAGCTGCCGACTGCTACAGCACCACGC
CGGGGGGCACGTATACGCCACTACCCCGGAGGCACCAGGATCATCTACGACCGAAAGTTCCTGCTGGA
GTGCAAGAACTCACCCATTGCCCGGACACCCCTGCTGCCTCCCTCAGATTCCCGGGGTACAACCTCT
CCAACAGCCCTCTCTCAAGCTGGAGGAGCTGAAGGAGCAGGAGACAGAGGAAGAGATACCCGATGACG
ACAATTTGAAATGGACATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210053 protein sequence
Red=Cloning site Green=Tags(s)
MSTSTSCPIPGGRDQLPCYSTTPGGTLYATTPGGTRIIYDRKFLLECKNSPIARTPPCCLPQIPGVTPP
PTAPLSKLEELKEQETEEEIPDDAQFEMDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6086_a07.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_003732

ORF Size: 300 bp

OTI Disclaimer: 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. [More info](#)

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:**
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_003732.3](#)

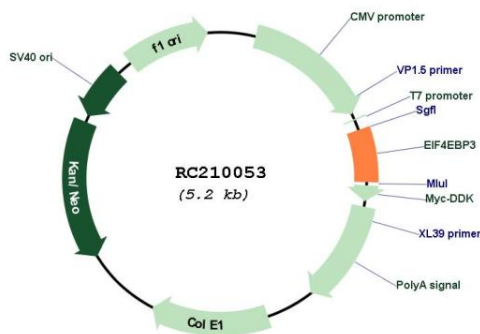
RefSeq Size: 728 bp

RefSeq ORF: 303 bp

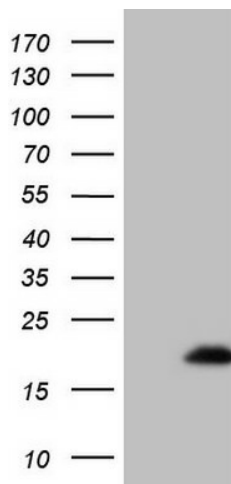
Locus ID: 8637
UniProt ID: [O60516](#)
Cytogenetics: 5q31.3
MW: 10.9 kDa

Gene Summary: This gene encodes a member of the EIF4EBP family, which consists of proteins that bind to eukaryotic translation initiation factor 4E and regulate its assembly into EIF4F, the multi-subunit translation initiation factor that recognizes the mRNA cap structure. Read-through transcription from the neighboring upstream gene (MASK or ANKHD1) generates a transcript (MASK-BP3) that encodes a protein comprised of the MASK protein sequence for the majority of the protein and a different C-terminus due to an alternate reading frame for the EIF4EBP3 segments. [provided by RefSeq, Oct 2010]

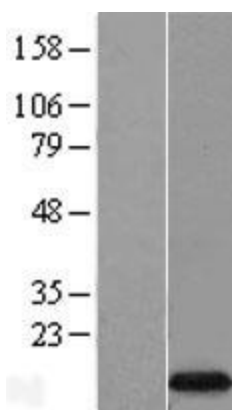
Product images:



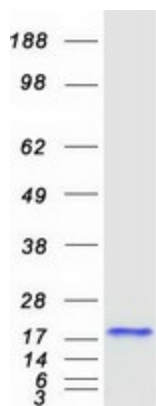
Circular map for RC210053



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY EIF4EBP3 (Cat# RC210053, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-EIF4EBP3 (Cat# [TA807773])(1:2000). Positive lysates [LY418472] (100ug) and [LC418472] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418472]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210053 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EIF4EBP3 protein (Cat# [TP310053]). The protein was produced from HEK293T cells transfected with EIF4EBP3 cDNA clone (Cat# RC210053) using MegaTran 2.0 (Cat# [TT210002]).