

Product datasheet for **RG208664**

EIF4EBP2 (NM_004096) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: EIF4EBP2 (NM_004096) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: EIF4EBP2
Synonyms: 4EBP2; PHASII
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208664 representing NM_004096
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCTCGTCAGCCGGCAGCGCCACCAGCCCAGCCAGAGCCGCGCCATCCCCACCCGACCGTGGCCA
 TCAGCGACGCGCGCAGCTACCTCATGACTATTGCACCACGCCCGGGGGGACGCTCTTCTCCACCACACC
 GGGAGGAACCTCGAATCATTTATGACAGAAAGTTTCTGTTGGATCGTCGCAATTCTCCATGGCTCAGACC
 CCACCCTGCCACCTGCCAATATCCCAGGAGTCACTAGCCCTGGCACCTAATTGAAGACTCCAAAGTAG
 AAGTAAACAATTTGAACAACCTTGAACAATCAGCAGGAAACATGCAGTTGGGGATGATGCTCAGTTCGA
 GATGGACATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208664 representing NM_004096
 Red=Cloning site Green=Tags(s)
 MSSSAGSGHQPSQSRAIPTRTVVAISDAAQLPHDYCTTPGGTLFSTTPGGTRIIYDRKFLLDRRNSPMAQT
 PPCHLPNIPGVTSPGTLIEDSKVEVNNLNNLNHDRKHAVGDDAQFEMDI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_004096

ORF Size: 360 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.

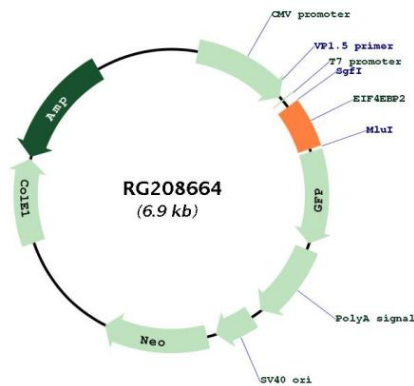
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_004096.5](#)

RefSeq Size: 2782 bp

RefSeq ORF: 363 bp
Locus ID: 1979
UniProt ID: [Q13542](https://www.uniprot.org/uniprot/Q13542)
Cytogenetics: 10q22.1
Protein Families: Transcription Factors
Gene Summary: This gene encodes a member of the eukaryotic translation initiation factor 4E binding protein family. The gene products of this family bind eIF4E and inhibit translation initiation. However, insulin and other growth factors can release this inhibition via a phosphorylation-dependent disruption of their binding to eIF4E. Regulation of protein production through these gene products have been implicated in cell proliferation, cell differentiation and viral infection. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RG208664