

## Product datasheet for **MG200530**

### Eif4ebp1 (NM\_007918) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Eif4ebp1 (NM\_007918) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Eif4ebp1  
**Synonyms:** 4e-bp1; AA959816; PHAS-I  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200530 representing NM\_007918  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGGCGGGCAGCAGCTGCAGCCAGACTCCCAGCCGGGCCATCCCCACTCGCCGCTAGCCCTCGGGC  
 ATGGCGTGCAGCTCCCGCCGGGGACTACAGCACCCTCCGGCGGCACGCTCTTCAGCACCACCCCGGG  
 AGGAACCAGGATTATCTATGACCGGAAATTTCTGATGGAGTGTGCGAACTCACCTGTGGCCAAAACACC  
 CCAAAGGACCTGCCAGCCATTCTGGGGTCACTAGCCCTACCAGCGATGAGCCTCCCATGCAAGCCAGCC  
 AGAGCCAAGTCCAGCAGCCCGAAGATAAGCGGGCAGGCGGTGAAGAGTCACAATTTGAGATGGACAT  
 T

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200530 representing NM\_007918  
 Red=Cloning site Green=Tags(s)  
 MSAGSSCSQTPSRAIPTRRVALGDGVQLPPGDYSTTPGGTLFSTTPGGTRIIYDRKFLMECRNSPVAKTP  
 PKDLPAIPGVTSPTSDEPPMQASQSQLPSSPEDKRAGGEESQFEMDI

**TRTRPLE** - GFP Tag - V

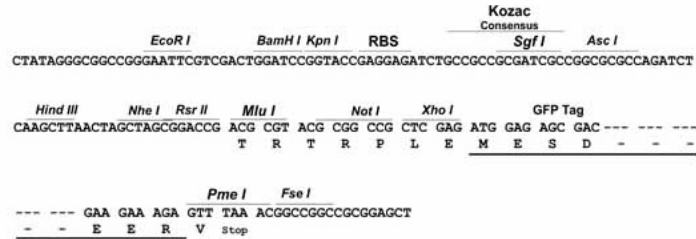
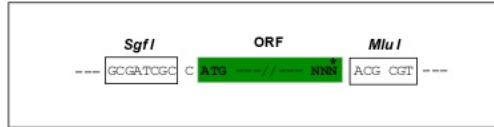
**Restriction Sites:** Sgfl-MluI



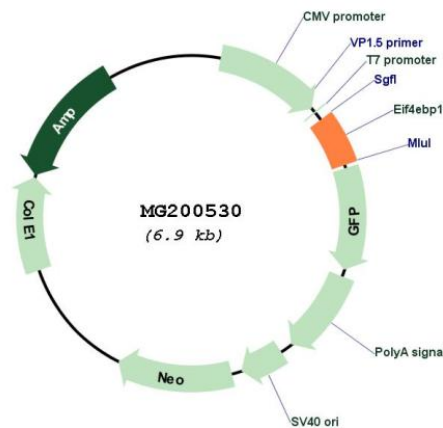
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## Cloning Scheme:

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN:

NM\_007918

ORF Size:

351 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">NM_007918.3</a> , <a href="#">NP_031944.3</a>
<b>RefSeq Size:</b>	981 bp
<b>RefSeq ORF:</b>	354 bp
<b>Locus ID:</b>	13685
<b>UniProt ID:</b>	<a href="#">Q60876</a>
<b>Cytogenetics:</b>	8 15.95 cM
<b>Gene Summary:</b>	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]