

## Product datasheet for **RC201348L4V**

### EIF4EBP1 (NM\_004095) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | EIF4EBP1 (NM_004095) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | EIF4EBP1   |
| Synonyms:                 | 4E-BP1; 4EBP1; BP-1; PHAS-I  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_004095  |
| ORF Size:                 | 354 bp   |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC201348).   |
| 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. <a href="#">More info</a> |
| OTI Annotation:           | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| RefSeq:                   | <a href="#">NM_004095.2</a>  |
| RefSeq Size:              | 895 bp   |
| RefSeq ORF:               | 357 bp   |
| Locus ID:                 | 1978   |
| UniProt ID:               | <a href="#">Q13541</a>   |
| Cytogenetics:             | 8p11.23  |
| Protein Pathways:         | Acute myeloid leukemia, ErbB signaling pathway, Insulin signaling pathway, mTOR signaling pathway  |



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**MW:** 12.4 kDa

**Gene Summary:** This gene encodes one member of a family of translation repressor proteins. The protein directly interacts with eukaryotic translation initiation factor 4E (eIF4E), which is a limiting component of the multisubunit complex that recruits 40S ribosomal subunits to the 5' end of mRNAs. Interaction of this protein with eIF4E inhibits complex assembly and represses translation. This protein is phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation. [provided by RefSeq, Jul 2008]