

## Product datasheet for **RG205985**

### EIF4ENIF1 (NM\_019843) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EIF4ENIF1 (NM_019843) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EIF4ENIF1
Synonyms:	4E-T; Clast4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG205985 representing NM\_019843  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGATAGGAGAAGTATGGGTGAAACAGAAAGTGGAGATGCTTTCCTTGACCTGAAGAAGCCTCCTGCCT  
 CCAAATGCCCCATCGCTATACAAAAGAAGAACTCTGGATATAAAAGAACTCCCCATTCCAAACAGAG  
 GCCTTCATGCCTTCTGAAAAATATGACAGTGATGGTGTCTGGGACCCTGAGAAGTGGCATGCCTCTCTC  
 TACCCAGCTTCAGGGCGGAGCTCACCAGTGAAAGTCTGAAGAAAGAGTTGGATACAGACCGCCTTCCC  
 TGGTGCGCAGGATAGTAGATCCACGAGAGCGTGTGAAAGAAGATGACTTAGATGTTGTTCTCAGCCCTCA  
 GAGACGGAGCTTTGGAGGGGGCTGCCACGTGACAGCCGCTGTTAGCTCCCGGCGCTCAGGAAGTCCATTA  
 GAGAAAGATAGTGATGGGCTTCGTCTGCTTGGTGGACGTAGGATTGGCAGTGGGAGGATAATCTCTGCC  
 GGACCTTTGAGAAGGATCACCGTCTTAGCGATAAGGACCTGCGGGACTTGAGAGACAGAGACCGAGAGAG  
 GGACTTCAAGGACAAGCGTTTCAGGAGAGAGTTTGGAGATAGTAAGCGTGTCTTTGGTGAGCGTAGAAGA  
 AATGATTCCTACACAGAAGAAGAACAGAGTGGTTCTCTGCTGGACCCACAAGTCACTGTAACCATCG  
 AACTGACTGGCTTTGATGATAAGATACTAGAAGAAGATCAAAAGGGAGAAAAAGAAAGGCGACGGAC  
 AGCCTCTGTGAAGGAAGGTATAGTAGAGTGCAATGGAGGAGTGGCCGAAGAGGATGAAGTGGAGGTCATC  
 CTTGCACAGGAGCCTGCGGCTGATCAGGAAGTGCCAAGGGATGCTGTCTTGCCTGAGCAGTCCCCAGGAG  
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 GGGAGAAGGGTCAGTCTCTGCCAGTCGGTTCAGTAGGTGGTTCTTAACCCGAGCAGATCAGGAAGCCGA  
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 GCTTGAAGGTTGACCAGCAAGTGAAGAATCAACTCCCTTCATGGCAGAACACCTAGAAGAGACCTTGAG  
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 CAAACCCATGAGCCCATCACAGCCAGATGAGCCAGCTGGAGTTGCAACAGGCAGCTTTAGAAGGGCTG  
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 CTGTCCCAGGCCAACCGTTACACCAAAGAACAAGATTATCGACCTAAAGCAACTGGGAGAAAAACCCCA  
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 CCCTATGGTTAGGCTGCTCACCAGGCTTACCCAGGGTTGGTACAGAGGATGCTGGCCAGGGAGTACAT  
 CCACAGCATCTTCCAAGTTTGTCCAAACTGGTGTGCTTCTCCTGGGATGGACTTGAGTCATTTACAGG  
 GAATATCTGGCCCATCCTGGGTGAGCCCTTTTACCCCTTACCTGCTGCTAGTACCCTCTCTTAAACCC  
 TCGTCTGGAACACCTCTGCATCTGGCAATGGTGAACAGCAGCTACAGCGCTCAGTTCTGCATCTCCA  
 GGCTCTGGTCCCAGTGCAGCAGCTGTGAGGTTTACAGCAACCCCTCAGAAGCTGCCAGCCGGTTCAGGCC  
 TGCCCCACATGCACTCCAGCTGGAGCATGCCCCAGCCAGAGGAGCAGCTCCCCTGTGGGCTTGGCAA  
 ATGGTTTGGCTCAGATGTGCTACAGCAACCCCTGCCCTCCATGCCCGCAAAGTTATCAGTGTAGATGAA  
 TTGAATACCGACAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG205985 representing NM\_019843  
Red=Cloning site Green=Tags(s)

```
MDRRSMGETESGDAFLDLKPPASKCPHRYTKEELLDIKELPHSKQRPSCLEKYSDSGVWDPEKWHASL
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NDSYTEEPEWFSAGPTSQSETIELTGFDKILEEDHKGRKRTRRTASVKEGIVECNGGVAEEDEVEVI
LAQEPAAADQEVPRDAVLPEQSPGDFDFNEFFNLDKVPCLASMIEDVLGEGSVSASRF SRWFSNPSRSGSR
SSSLGSTPHEELERLAGLEQAILSPGQNSGNYFAPIPLEDHAENKVDILEMLQKAKVDLKPILLSANK
EKLKESHSVGVLSVEEVEAGLKGKVDQVKNSTPFMAEHLEETLSAVTNNRQLKKGDMTAFNKLVST
MKASGTLPSQPKVSRNLESHLMPAEIPGQVPVKNILQELLGQPVQRPASSNLLSGLMGSLEPTTSLGQ
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ALPHDLAVQAANFYQPGFGKQVDRTRDGRFRNRQQRVTKSPAPVHRGNSSSPAPAASITSMSPSFPTST
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LSQANRYTKEQDYRPKATGRKTPTLASPVPTTFLRPVHVQVPLVPHVPMVRPAHRLHPGLVQRMLAQGVH
PQHLSLLQTVLPPGMDLSHLQGISGPIILGQPFYPLPAASHPLLNPRPGTPLHLAMVQQQLQRSVLHPP
GSGSHAAAVSVQTTQNVPSRSGPLPHMSQLEHRPSQRSSSPVGLAKWFGSDVLQQLPSMPAKVISVDE
LEVRQ
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

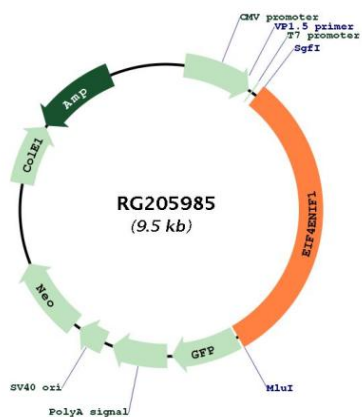


**ACCN:** NM\_019843

**ORF Size:** 2955 bp

<b>OTI Disclaimer:</b>	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>
<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_019843.2</a> , <a href="#">NP_062817.1</a>
<b>RefSeq Size:</b>	3521 bp
<b>RefSeq ORF:</b>	2958 bp
<b>Locus ID:</b>	56478
<b>UniProt ID:</b>	<a href="#">Q9NRA8</a>
<b>Cytogenetics:</b>	22q12.2
<b>Gene Summary:</b>	The protein encoded by this gene is a nucleocytoplasmic shuttle protein for the translation initiation factor eIF4E. This shuttle protein interacts with the importin alpha-beta complex to mediate nuclear import of eIF4E. It is predominantly cytoplasmic; its own nuclear import is regulated by a nuclear localization signal and nuclear export signals. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2009]

Product images:



Circular map for RG205985