

## Product datasheet for **RG225317**

### EIF4E (NM\_001130679) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EIF4E (NM_001130679) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EIF4E
Synonyms:	AUTS19; CBP; eIF-4E; EIF4E1; EIF4EL1; EIF4F
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225317 representing NM_001130679 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGACTGTCGAACCGGAAACCACCCCTACTCCTAATCCCCCGACTACAGAAGAGGAGAAAACGGAAT  
CTAATCAGGAGGTTGCTAACCCAGAACACTATATTAACATCCCCTACAGAACAGATGGGCACTCTGGTT  
TTTTAAAAATGATAAAAGCAAACCTGGCAAGCAAACCTGCGGCTGATCTCCAAGTTTGACTGTTGAA  
GACTTTTGGGCTCTGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTACTCACTTT  
TTAAGGATGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGGGAGGACGATGGCTAATTACATT  
GAACAAACAGCAGAGACGAAGTGACCTCGATCGCTTTTGGCTAGAGACAAGATGGGATCTTGCTATGTTG  
CCCAGGTTGGTCTCAAACCTCTGGCCTCAAGTGATCCTCCCACTTCAGCCTCCAAAGTGCTGGAATTAC  
AGCTTCTGTGCCTTATTGGAGAATCTTTTGATGACTACAGTGATGATGTATGTGGCGCTGTTGTTAATGT  
TAGAGCTAAAGGTGATAAGATAGCAATATGGACTACTGAATGTGAAAACAGAGAAGCTGTTACACATATA  
GGGAGGTTATACAAGAAAGTTAGGACTTCTCCAAAGATAGTGATTGGTTATCAGTCCCACGCAGACA  
CAGCTACTAAGAGCGGCTCCACCCTAAAATAGGTTTGTGTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225317 representing NM\_001130679  
Red=Cloning site Green=Tags(s)

MATVEPETTPTPNPPTTEEEKTESNQEVANPEHYIKHPLQNRWALWFFKNDKSKTWQANLRLISKFDTVE  
 DFWALYNHIQLSSNLMPGCDYSLFKDGIEMWEDKKNRGGRWLITLNKQRRSDLDRFWLETRWDLAML  
 PRLVSNFWPQVILPLQPPKVLQLLLCLIGESFDDYSDVCGAVVNVRAKGDKIAIWTTECENREAVTHI  
 GRVYKERLGLPPKIVIGYQSHADTATKSGSTTKNRFVV

TRTRPLE - GFP Tag - V

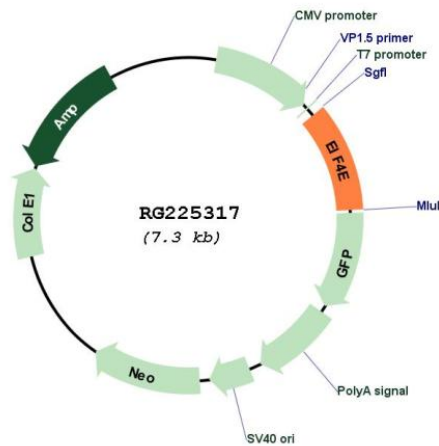
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001130679

**ORF Size:** 744 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_001130679.2</a>
<b>RefSeq Size:</b>	4842 bp
<b>RefSeq ORF:</b>	747 bp
<b>Locus ID:</b>	1977
<b>UniProt ID:</b>	<a href="#">P06730</a>
<b>Cytogenetics:</b>	4q23
<b>Protein Pathways:</b>	Insulin signaling pathway, mTOR signaling pathway
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a component of the eukaryotic translation initiation factor 4F complex, which recognizes the 7-methylguanosine cap structure at the 5' end of messenger RNAs. The encoded protein aids in translation initiation by recruiting ribosomes to the 5'-cap structure. Association of this protein with the 4F complex is the rate-limiting step in translation initiation. This gene acts as a proto-oncogene, and its expression and activation is associated with transformation and tumorigenesis. Several pseudogenes of this gene are found on other chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]</p>