

## Product datasheet for **RG219823**

### EIF4E1B (NM\_001099408) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** EIF4E1B (NM\_001099408) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** EIF4E1B  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG219823 representing NM\_001099408  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTTGCTGTTGAGGTGAGTGAAGCTGAGGGTGAATCCGAGAGTGGGAGGAGGAGGAGAAGGAGGAGG  
 AGGCAGCAGAGAGGACGCCACAGGAGAAAAAGTCTCCAACTCTCCAGGACTTTGCTGTCTCTGAGAGG  
 GAAGGCCCGGACGGGGGGCCCATGGAAGTCAAGCTGGAGCTGCACCCCTTGAGAACAGGTGGGCTCTG  
 TGGTCTTCAAGAATGACCGCAGCCGGCCTGGCAGGACAACCTGCACCTGGTACCAAGGTGGACACTG  
 TGGAGGACTTCTGGCGCTATACAGTACATCCAGCTGGCCAGCAAGCTCTCTCTGGCTGACTACGC  
 CCTCTTCAAGGATGGCATCCAGCCATGTGGGAGGACAGCAGGAATAAACGGGGTGGCCGCTGGCTGGTC  
 AGCCTGGCCAAGCAGCAGCGCCACATTGAGCTGGACCGGCTGTGGCTGGAGACGCTGCTGTCTGATCG  
 GGGAGAGCTTTGAGGAACACAGCAGAGAGGTATGTGGGCGCTCGTCAACATCCGCACCAAGGGGACAA  
 GATCGCTGTGGACGAGGGAGGCGAAAACCAGGCGGGCGTGTGCACGTTGGGCGTGTATACAAAGAG  
 CGCCTGGGCTCTCCCAAAGACCATCATTGGGTACCAGGCCATGCAGACACAGCCACCAAGAGCAACT  
 CCCTAGCCAAGAACAAGTTTGTGGTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG219823 representing NM\_001099408  
 Red=Cloning site Green=Tags(s)

MLAVEVSEAEGGIREWEEEEKEEEAAERTPTGEKSPNSPRTLLSLRGKARTGGPMEVKLELHPLQNRWAL  
 WFFKNDRSRAWQDNLHLVTKVDTVEDFWALYSHIQLASKLSSGCDYALFKDGIQPMWEDSRNKRRGRWL  
 SLAKQQRHIELDRLWLETLCLIGSFEEHSREVCGAVVNIRTKGDKIAVWTREANQAGVLHVGRVYKE  
 RLGLSPKTIIGYQAHADTATKSNLAKNKFVV

**TRTRPLE** - GFP Tag - V

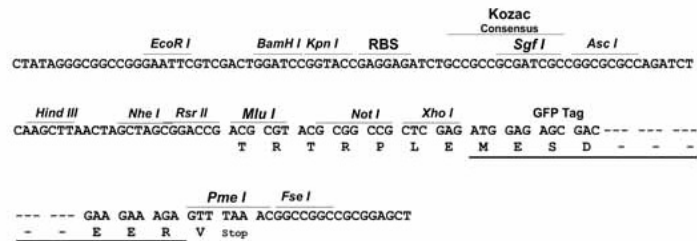
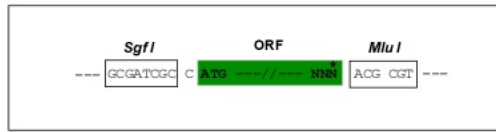


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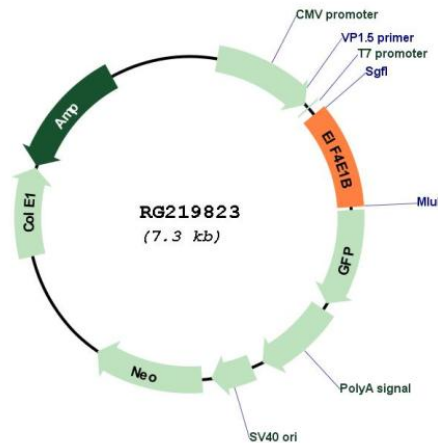
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_001099408

ORF Size: 726 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.

<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_001099408.2</a>
<b>RefSeq Size:</b>	1974 bp
<b>RefSeq ORF:</b>	729 bp
<b>Locus ID:</b>	253314
<b>UniProt ID:</b>	<a href="#">A6NMX2</a>
<b>Cytogenetics:</b>	5q35.2
<b>Protein Pathways:</b>	Insulin signaling pathway, mTOR signaling pathway
<b>Gene Summary:</b>	Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structure.[UniProtKB/Swiss-Prot Function]