

Product datasheet for **RC209955**

EIF4B (NM_001417) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | EIF4B (NM_001417) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | EIF4B |
| Synonyms: | EIF-4B; PRO1843 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



[View online »](#)

ORF Nucleotide Sequence:

>RC209955 representing NM_001417
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

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Protein Sequence:

>RC209955 representing NM_001417
 Red=Cloning site Green=Tags(s)

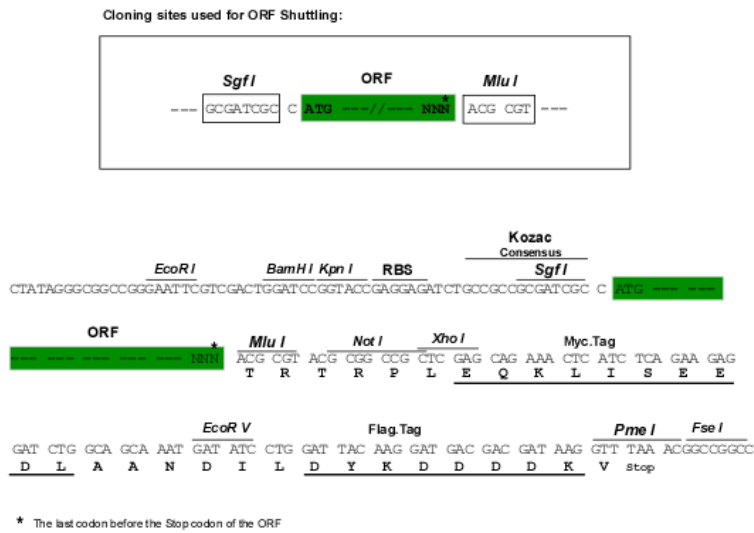
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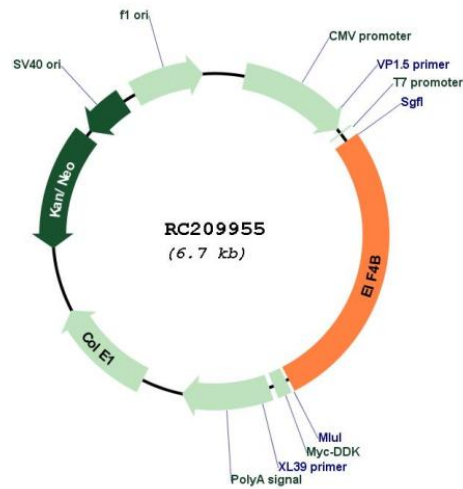
Chromatograms: https://cdn.origene.com/chromatograms/mg3802_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



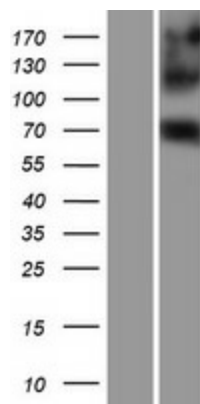
Plasmid Map:



ACCN: NM_001417

ORF Size: 1833 bp

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| 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. |
| Components: | 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). |
| Reconstitution Method: | <ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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. |
| RefSeq: | NM_001417.3 , NP_001408.2 |
| RefSeq Size: | 3885 bp |
| RefSeq ORF: | 1836 bp |
| Locus ID: | 1975 |
| UniProt ID: | P23588 |
| Cytogenetics: | 12q13.13 |
| Domains: | RRM |
| Protein Pathways: | mTOR signaling pathway |
| MW: | 69 kDa |
| Gene Summary: | Required for the binding of mRNA to ribosomes. Functions in close association with EIF4-F and EIF4-A. Binds near the 5'-terminal cap of mRNA in presence of EIF-4F and ATP. Promotes the ATPase activity and the ATP-dependent RNA unwinding activity of both EIF4-A and EIF4-F. [UniProtKB/Swiss-Prot Function] |

Product images:

Western blot validation of overexpression lysate (Cat# [LY419945]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209955 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).