

## Product datasheet for **MG226463**

### Eif4a2 (NM\_001123037) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4a2 (NM_001123037) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eif4a2
Synonyms:	4833432N07Rik; BM-010; Ddx2b; eIF-4A-II; Eif4; eIF4A-II
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226463 representing NM_001123037 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCATATGGTTTTGAGAAGCCTTCAGCTATTCAGCAAAGAGCTATTATCCCTTGTTAAAGATCCAAA  
AGGTAATTTTGGCTCTTGGAGATTATATGGGAGCAACTTGTCATGCTTGCATTGGAGGAACAAATGTTTCG  
AAATGAAATGCAGAAGTTCAGGCTGAAGCCCTCACATTGTTGGTACTCCAGGGAGAGTGTGGAT  
ATGCTAAACAGAAGATACCTTTCTCCAAAATGGATCAAAATGTTCTGTTTTGGACGAAGCAGATGAAATGT  
TGAGCCGAGGGTTAAGGATCAGATCTATGAGATTTCCAGAAATTAATACAAGCATTAGGTTGTGTT  
GCTTTCTGCCACAATGCCAACTGATGTGCTAGAAGTGACCAAGAAATTCATGAGAGATCCAATTCGAATT  
CTGGTGAAGAAGGAAGAATTGACCCTTGAAGGAATTAACAATTTTATTAATGTTGAGCGAGAGGAGT  
GGAAGCTGGACACTCTTTGTGACTTGTATGAGACTTTGACTATCACACAAGCAGTTATTTTTCTCAATAC  
AAGGCGCAAGGTGGACTGGCTCACGGAGAAAATGCATGCCAGGGACTTCACAGTTTCTGCTGCTGATGGT  
GACATGGACCAGAAGGAAAGAGATGTCATCATGAGGGAATCCGATCAGGGTCAAGCCGTGTTCTGATCA  
CTACTGACTTGTGGCCCGTGGGATTGACGTGCAACAAGTGTCTTGGTTATAAACTACGATCTACCTAC  
CAATCGTGAAGAACTATATTCACAGAATTGGCAGAGGGGTCGATTTGGGAGGAAAGGTGTGGCTATAAAC  
TTTGTACTGAAGAAGACAAGAGGATTCCTGTCGACATTGAGACTTTCTACAATACTACAGTGGAGGAAA  
TGCCCATGAATGTGGCTGACCTAATT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Reconstitution Method:**

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\\_001123037.2](#), [NP\\_001116509.1](#)

**RefSeq Size:** 2218 bp

**RefSeq ORF:** 939 bp

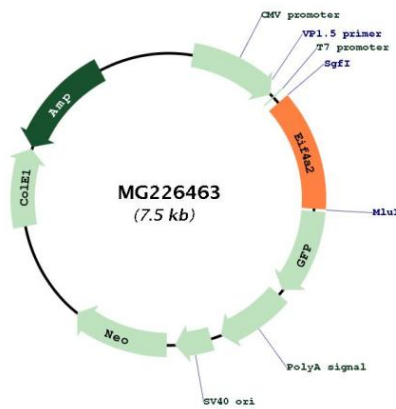
**Locus ID:** 13682

**UniProt ID:** [P10630](#)

**Cytogenetics:** 16 13.93 cM

**Gene Summary:** ATP-dependent RNA helicase which is a subunit of the eIF4F complex involved in cap recognition and is required for mRNA binding to ribosome. In the current model of translation initiation, eIF4A unwinds RNA secondary structures in the 5'-UTR of mRNAs which is necessary to allow efficient binding of the small ribosomal subunit, and subsequent scanning for the initiator codon.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG226463