

## Product datasheet for **RG206301**

### EIF5 (NM\_001969) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | EIF5 (NM_001969) Human Tagged ORF Clone                                     |
| Tag:                      | TurboGFP  |
| Symbol:                   | EIF5  |
| Synonyms:                 | EIF-5; EIF-5A   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG206301 representing NM_001969<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGTCAATGTCAACCGCAGCGTGTGACACCAGTTCTATCGCTACAAGATGCCCGTCTGATTGCCA  
AGGTTGAGGGCAAAGGCAATGGAATCAAGACAGTTATAGTCAACATGGTTGACGTTGCAAAGGCGCTTAA  
TCGGCCTCCAACGTATCCACCAAATATTTGGTTGTGAGCTGGGAGCACAGACCCAGTTTGATGTTAAG  
AATGACCGTTACATTGTCAATGGATCTCATGAGGCGAATAAGCTGCAAGACATGTTGGATGGATTGTTA  
AAAAATTTGTTCTGTCTGCTGAATGTGAGAATCCTGAAACAGATTTGCATGTCAATCCAAAGAAGCAAAC  
AATAGGTAATTCTGTAAAGCCTGTGGCTATCGAGGCATGCTTGACACACATCATAAACTCTGCACATTC  
ATTCTCAAAAACCCACCTGAGAATAGTGACAGTGGTACAGGAAAGAAAAGAAAAGAAAAGAAAACAGAA  
AGGGCAAAGACAAGGAAAATGGCTCCGTATCCAGCAGTGAGACACCACCACCACCACCACCAATGA  
AATTAATCCTCCTCCACATACAATGGAAGAAGAGGAGGATGATGACTGGGAGAAGATACAACCTGAGGAA  
GCTCAAAGGCGTCGAATGGATGAAATCAGTGACCATGCAAAAGTTCTGACACTCAGTGATGATTTGGAAA  
GAACAATTGAGGAGAGGGTCAATATCCTCTTTGATTTTGTAAAGAAAAGAAAAGAGAGGGTGTATTGA  
TTCATCTGACAAAAGAAATCGTTGCTGAAGCAGAAAAGACTGGATGTAAGAAATACAGGCGCCATTTCTACGATTT  
ACTGAAGTTCTTTTTAATGAGAAGATTAGAGAACAGATTAAGAAATACAGGCGCCATTTCTACGATTT  
GTCACAACAACAAAAGCCAAACGGTACCTTCTCATGGTTTGGAGTGTGTGGTAGCAATGCATCAAGC  
TCAGCTTATCTCCAAGATTCCACATATCTTGAAGGAGATGTACGATGCAGACCTTTTAGAAGAAGAGGTC  
ATCATCAGCTGGTCGAAAAGGCCTCTAAGAAATATGTCTCAAAGAAGTTGCCAAAAGAGATTCGTGTCA  
AAGCAGAACCATTTATAAAATGGTTGAAGGAGGCAGAGGAAGAATCTTCTGGTGGCGAAGAAGAAGATGA  
AGATGAGAACATTGAGGTGGTGTATTCGAAGGCTGCCAGTGTACCGAAAGTTGAGACTGTAAGTGCAGAC  
ACAAGGATGACGACATCGATATTGATGCCATT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG206301 representing NM\_001969  
Red=Cloning site Green=Tags(s)

```
MSVNVNRSVSDQFYRYKMPRLIAKVEGKNGIKTVIVNMVDVAKALNRPPTYPTKYFGCELGAQTQFDVK
NDRYIVNGSHEANKLQDMLDGF IKKFVLCPEENPETDLHVNPKQTIGNSCKACGYRGLDTHHKLCTF
ILKNPPENS DSGTGKKEKEKKNRKGDKENGVS SSSSETPPPPPPNEINPPPHTEEEEEDDDWGEDTTEE
AQRRRMD EISDHAKVLTLSDDLERTIEERVNILFD FVKKKKEEGVIDSSDKEIVAE AERLDVKAMGPLVL
TEVLFNEKIREQIKKYRRHFLRFCHNNKAKRYLLHGLECVVAMHQAQLISKIPHILKEMYDADLLEEEV
IISWSEKASKKYVSKELAKEIRVKAEPFIKWLKEAEEESSGGEEDEDEDENIEVVYSKAASVPKVETVKS
D
NKDDDDIDDAI
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001969

**ORF Size:** 1293 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.

**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:**

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\\_001969.3](#), [NP\\_001960.2](#)

**RefSeq Size:** 5809 bp

**RefSeq ORF:** 1296 bp

**Locus ID:** 1983

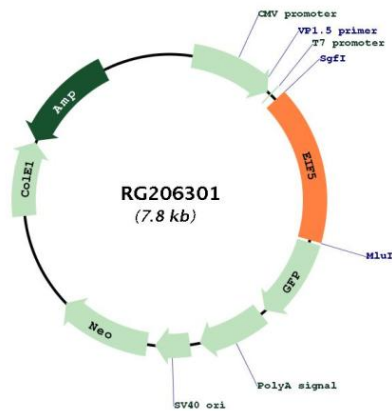
**UniProt ID:** [P55010](#)

**Cytogenetics:** 14q32.32

**Domains:** eIF2B\_5, eIF5C

**Gene Summary:** Eukaryotic translation initiation factor-5 (EIF5) interacts with the 40S initiation complex to promote hydrolysis of bound GTP with concomitant joining of the 60S ribosomal subunit to the 40S initiation complex. The resulting functional 80S ribosomal initiation complex is then active in peptidyl transfer and chain elongations (summary by Si et al., 1996 [PubMed 8663286]).[supplied by OMIM, May 2010]

### Product images:



Circular map for RG206301