

## Product datasheet for **RG229052**

### EIF4ENIF1 (NM\_001164501) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                             |
| Product Name:             | EIF4ENIF1 (NM_001164501) Human Tagged ORF Clone |
| Tag:                      | TurboGFP  |
| Symbol:                   | EIF4ENIF1                                       |
| Synonyms:                 | 4E-T; Clast4                                    |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                         |
| E. coli Selection:        | Ampicillin (100 ug/mL)                          |



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**ORF Nucleotide Sequence:**

>RG229052 representing NM\_001164501  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGATAGGAGAAGTATGGGTGAAACAGAAAGTGGAGATGCTTTCCTTGACCTGAAGAAGCCTCCTGCCT  
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 GAGACGGAGCTTTGGAGGGGGCTGCCACGTGACAGCCGCTGTTAGCTCCCGGCGCTCAGGAAGTCCATTA  
 GAGAAAGATAGTGATGGGCTTCTGCTGCTTGGTGGACGTAGGATTGGCAGTGGGAGGATAATCTCTGCC  
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 GGGAGAAGGGTCAGTCTCTGCCAGTCGGTTCAGTAGGTGGTTCTTAACCCGAGCAGATCAGGAAGCCGA  
 TCCAGCAGTCTTGGTCAACACCACATGAAGAGCTAGAGAGACTGCAGGTCTGGAGCAAGCCATCCTCT  
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 GGCTCTGGTCCCATGCAGCAGCTGTACGGTTCAGACAACCCCTCAGAAGCTGCCAGCCGGTTCAGGCC  
 TGCCCCACATGCACTCCAGCTGGAGCATGCCCCAGCCAGAGGAGCAGTCCCCTGTGGGCTTGGCAA  
 ATGGTTTGGCTCAGATGTGCTACAGCAACCCCTGCCCTCCATGCCCGCAAAGTTATCAGTGTAGATGAA  
 TTGAATACCGACAG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG229052 representing NM\_001164501  
 Red=Cloning site Green=Tags(s)

```
MDRRSMGETESGDAFLDLKKPPASKCPHRYTKEELLDIKELPHSKQRPSCLEKYSDSGVWDPEKWHASL
YPASGRSSPVESLKKELDTDRPSLVRRIVDPRERVKEDDLDVVLSPQRRSFGGGCHVTAAVSSRRSGSPL
EKDSGLRLGRRIGSGRIISARTFEKDHRLSDKDLRDLRDRERDFKDKRFRREFGDSKRVTGERRR
NDSYTEEPEWFSAGPTSQSETIELTGFDKILEEDHKGRKRTRRTASVKEGIVECNGGVAAEEDVEVI
LAQEPAADQEVPRDAVLPEQSPGDFDFNEFFNLDKVPCLASMIEDVLGEGSVSASRF SRWFSNPSRSGSR
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EKLKESSHSGVVLVVEEVEAGLKGKVDQVKNSTPFMAEHLEETLSAVTNNRQLKKGDMTAFNKLVST
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LEVRQ
```

TRTRPLE – GFP Tag – V

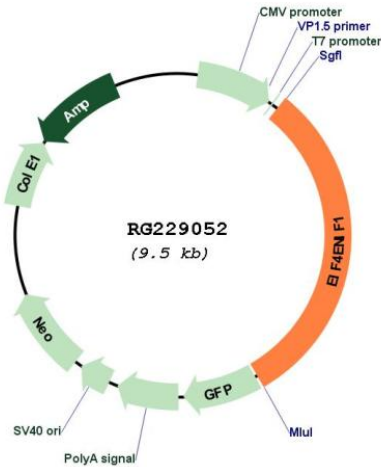
Restriction Sites:

SgfI-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001164501

ORF Size: 2955 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\\_001164501.1](#), [NP\\_001157973.1](#)

RefSeq Size: 3680 bp

RefSeq ORF: 2958 bp

Locus ID: 56478

UniProt ID: [Q9NRA8](#)

Cytogenetics: 22q12.2

**Gene Summary:**

The protein encoded by this gene is a nucleocytoplasmic shuttle protein for the translation initiation factor eIF4E. This shuttle protein interacts with the importin alpha-beta complex to mediate nuclear import of eIF4E. It is predominantly cytoplasmic; its own nuclear import is regulated by a nuclear localization signal and nuclear export signals. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2009]