

Product datasheet for **RG202695**

EIFIAY (NM_004681) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: EIFIAY
Synonyms: eIF-4C
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG202695 representing NM_004681
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTCGGTAACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCAAGAATAAAGGTAAAGGAGGTAAAAACAGGCGCAGGGTAAAAATGAGAATGAATCTGAAAAA
GAGAGTTGGTGTTTAAAGAGGATGGACAAGAGTATGCTCAGGTAATCAAAATGTTGGGAAATGGACGATT
GGAAGCATTGTGTTTGTGTTGTAAGAGGTTATGCCATATCAGAGGGAATGAGAAAAAGGTTTGG
ATAAATACATCAGACATTATTTGGTTGGTCTACGGGACTATCAGGATAACAAAGCTGATGTAATTTTAA
AGTACAATGCAGATGAAGCTAGAAGCCTGAAGGCATATGGCGAGCTCCAGAACATGCTAAATCAATGA
AACAGACACATTTGGTCTGGAGATGATGATAATCCAGTTTGACGATATTGGAGATGATGATGAAGAC
ATTGATGATATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202695 representing NM_004681
Red=Cloning site Green=Tags(s)

MPKNKGKGGKNNRRRGKNENESKRELVFKEGQYEAQVIKMLGNRLEALCFDGVKRLCHIRGKLRKKVW
INTSDIILVGLRDYQDNKADVILKYNADARSCLKAYGELPEHAKINETDTFGPGDDDEIQFDDIGDDDED
IDDI

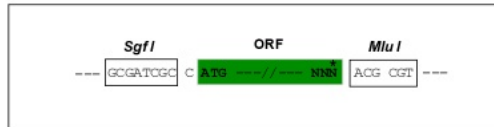
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT
 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGTACTAGTAGCGGACG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---
 T R T R P L E M E S D - - -
 --- GAA GAA AGA GTT TAA ACGCCGGCCGCGGAGCT
 - - E E R V Stop

ACCN: NM_004681

ORF Size: 432 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

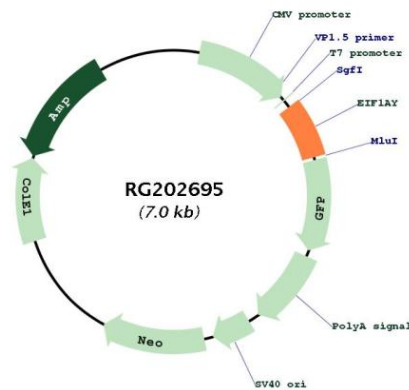
RefSeq: [NM_004681.4](#)

RefSeq Size: 1399 bp
 RefSeq ORF: 435 bp
 Locus ID: 9086

UniProt ID: [O14602](#)
 Cytogenetics: Yq11.223
 Domains: eIF-1a

Gene Summary: This gene is located on the non-recombining region of the Y chromosome. It encodes a protein related to eukaryotic translation initiation factor 1A (EIF1A), which may function in stabilizing the binding of the initiator Met-tRNA to 40S ribosomal subunits. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG202695