

## Product datasheet for **RG209697**

### EEF1A1 (NM\_001402) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EEF1A1 (NM_001402) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EEF1A1
Synonyms:	CCS-3; CCS3; EE1A1; EEF-1; EEF1A; eEF1A-1; EF-Tu; EF1A; GRAF-1EF; LENG7; PTI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209697 representing NM\_001402  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCGGCAAGTCCACCACTA  
 CTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGC  
 TGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGATAAACTGAAAGCTGAGCGTGAACGTGGT  
 ATCACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAG  
 GACACAGAGACTTTATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGCTGATTGTTGC  
 TGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCT  
 TACACACTGGGTGTAAACAATAATTGTCGGTGTAAACAAAATGGATTCCACTGAGCCACCCTACAGCC  
 AGAAGAGATATGAGGAAATTTGTTAAGGAAGTCAGCACTTACATTAAGAAAATGGCTACAACCCCGACAC  
 AGTAGCATTTGTCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCAAGTCTAACATGCCTTGG  
 TTCAAGGGATGGAAGTACCCGTAAGGATGGCAATGCCAGTGAACACGCTGCTTGAGGCTCTGGACT  
 GCATCCTACCACCAACTCGTCCAAGTACAAGCCCTTGCCTGCTCCTCCAGGATGTCTACAAAATTTGG  
 TGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACTTT  
 GCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTCGAAATGCACCATGAAGCTTTGAGTGAAGCTTTC  
 CTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTGTCGTCGGCAACGTTGCTGG  
 TGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCA  
 GGCCAAAATAAGCGCCGGCTATGCCCTGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGCTG  
 AGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTTCTGAAGTCTGG  
 TGATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCT  
 TTGGGTCGCTTTGCTGTTGCTGATATGAGACAGACAGTTGCGGTGGGTGTATCAAAAGCAGTGGACAAGA  
 AGGCTGCTGGAGCTGGCAAGGTACCAAGTCTGCCAGAAAGCTCAGAAGGCTAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG209697 representing NM\_001402  
 Red=Cloning site Green=Tags(s)

MGKEKTHINIVVIGHVDSGKSTTTGHLIYKCGGIDKRTIEKFEKEAAEMGKGSFKYAWVLDKLAERER  
 ITIDISLWKFETSKYYVTIIDAPGHRDFIKNMITGTSQADCAVLIVAAGVGEFEAGISKNGQTRHALLA  
 YTLGVKQLIVGVNKMDSTEPPYSQKRYEEIVKEVSTYIKKIGYNPDTVAFVPI SGWNGDNMLEPSANMPW  
 FKGWKVTRKDGNASGTTLLEALDCILPPTRPDKPLRLPLQDVYKIGGIGTVPVGRVETGVLKPGMVVTF  
 APVNVTTVEKSVEMHHEALSEALPGDNVGFNVKNSVKDVRRGVAGDSKNDPPMEAAGFTAQVIILNHP  
 GQISAGYAPVLDCHTAHIAKFAELKEKIDRRSGKLEDGPKFLKSGDAAIVDMVPGKPMCVESFSDYPP  
 LGRFAVRDMRQTVAVGVKAVDKKAAGAGKVTKSAQKAQKAK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001402

**ORF Size:** 1386 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\\_001402.6](#)

**RefSeq Size:** 3528 bp

**RefSeq ORF:** 1389 bp

**Locus ID:** 1915

**UniProt ID:** [P68104](#)

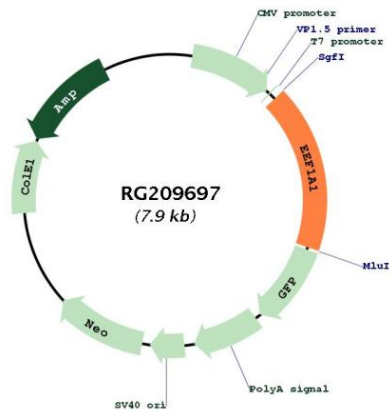
**Cytogenetics:** 6q13

**Domains:** GTP\_EFTU, GTP\_EFTU\_D3, GTP\_EFTU\_D2

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes an isoform of the alpha subunit of the elongation factor-1 complex, which is responsible for the enzymatic delivery of aminoacyl tRNAs to the ribosome. This isoform (alpha 1) is expressed in brain, placenta, lung, liver, kidney, and pancreas, and the other isoform (alpha 2) is expressed in brain, heart and skeletal muscle. This isoform is identified as an autoantigen in 66% of patients with Felty syndrome. This gene has been found to have multiple copies on many chromosomes, some of which, if not all, represent different pseudogenes. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG209697