

## Product datasheet for **RG225893**

### **FIP1L1 (NM\_001134938) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FIP1L1 (NM_001134938) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FIP1L1
Synonyms:	FIP1; hFip1; Rhe
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG225893 representing NM\_001134938  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGTCGGCCGCGGAGGTCGAGCGCCTAGTGTCCGAGCTGAGCGGCGGGACCGGAGGGGATGAGGAGGAAG  
 AGTGGCTCTATGGCGATGAAAATGAAGTTGAAAGGCCAGAAGAAGAAAATGCCAGTGCTAATCCTCCATC  
 TGGAAATTGAAGATGAAACTGCTGAAAATGGTGTACCAAAACCGAAAAGTACTGAGACCGAAGATGATAGT  
 GATAGTGACAGCGATGATGATGAAGATGATGTTTCATGTCACTATAGGAGACATTAACGGGAGCACCAC  
 AGTATGGGAGTTATGGTACAGCACCTGTAATCTTAACATCAAGACAGGGGGAAGAGTTTATGAACTAC  
 AGGGACAAAAGTCAAAGGAGTAGACCTTGTGCACCTGGAAGCATTAAATGGAGTTCCACTCTTAGAGGTA  
 GATTTGGATTCTTTGAAGATAAACCATGGCGTAAACCTGGTGTGATCTTTCTGATTATTTAATTATG  
 GGTTTAATGAAGATACCTGGAAAGCTTACTGTGAAAAACAAAAGAGGATACGAATGGGACTTGAAGTTAT  
 ACCAGTAACCTCTACTACAAATAAAATTACGGTACAGCAGGGAAGAACTGAAAACCTCAGAGAAAGAACT  
 GCCCTTCCATCTACAAAAGCTGAGTTTACTTCTCCTCCTCTTTGTTCAAGACTGGGCTTCCACCGAGCA  
 GGAGATTACCTGGGGCAATTGATGTTATCGGTCAGACTATAACTATCAGCCGAGTAGAAGGCAGGCGACG  
 GGCAAATGAGAACAGCAACATACAGGTCCTTTCTGAAAGATCTGCTACTGAAAGTAGACAACAATTTAGC  
 AAACCACCTCCGTTTTTCCCTCCAGGAGCTCCTCCCACCTCACCTTCCACCTCCTCCATTTCTCCACCTC  
 CTCCGACTGTGACACTGCTCCACCTCTGATTCCACCACCGGGTTTTCTCCTCCACCAGGCGCTCCACC  
 TCCATCTCTTATACCAACAATAGAAAGTGGACATTCCTCTGGTTATGATAGTCGTTCTGCACGTGCATTT  
 CCATATGGCAATGTTGCCTTTCCCATCTTCTGGTCTGCTCCTTCTGTCCTAGTCTTGTGGACACCA  
 GCAAGCAGTGGGACTATTATGCCAGAAGAGAGAAAAGACCGAGATAGAGAGAGAGACAGACAGACAGAGCG  
 AGACCGTGATCGGGACAGAGAAAAGAGAACGCACACAGAGAGAGAGAGAGGGAGCGTATCACAGTCTACA  
 CCAAGTGTTTTCAACAGCGATGAAGAACGATACAGATACAGGGAATATGCAGAAAAGGTTATGAGCGTC  
 ACAGAGCAAGTCGAGAAAAAGAAACGACATAGAGAAAAGACGACACAGGGAGAAAAGAGAAAACAGACA  
 TAAGTCTTCTCGAAGTAATAGTAGAGCTCGCCATGAAAGTGAAGAAGGAGATAGTCACAGGAGACACAAA  
 CACAAAAAATCTAAAAGAAGCAAAGAAGAAAAGAACGGGCAGTGAGCCTGCCCTGAACAGGAGAGCA  
 CCGAAGCTACACCTGCAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG225893 representing NM\_001134938  
 Red=Cloning site Green=Tags(s)

MSAGEVERLVSELSGGTGGDEEEEWLYGDENEVERPEEENASANPPSGIEDETAENGVKPKVTEDEDS  
 DSDSDDEDDVHVTIGDIKTGAPQYGSYGTAPVNLNIKTGGRVYGTGKVKGVLDLAPGSINGVPLLEV  
 DLDSFEDKPWRKPGADLSDYFNFGFNEWTWKAYCEKQKRIRMGLEVIPVTSTTNKITVQQGRTGNSEKET  
 ALPSTKAEFTSPPSLFKTGLPPSRRLPGAIDVIGQTITISRVGRRRANENSNIQVLSERSATEVDNNS  
 KPPPFPPGAPPHLPPPPFLPPPPTVSTAPPLIPPPGFPPPGAPPPSLIPTIESGHSSGYDSRSARAF  
 PYGNVAFPHLPGSAPSWPSLVDTSKQWYYARREKDRDRERDRDRERDRDRERERERERERERERERER  
 PSVFNSDEERYRYREYAERGYERHRASREKEERHRERRHREKEETRHKSSRSNSRRRHESEEGDSHRRHK  
 HKKSKRSKEGKEAGSEPAPEQESTEATPAE

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001134938

**ORF Size:** 1560 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\\_001134938.2](#)

**RefSeq Size:** 2236 bp

**RefSeq ORF:** 1563 bp

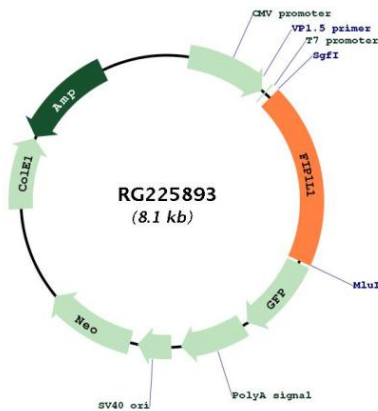
**Locus ID:** 81608

**UniProt ID:** [Q6UN15](#)

**Cytogenetics:** 4q12

**Gene Summary:**

This gene encodes a subunit of the CPSF (cleavage and polyadenylation specificity factor) complex that polyadenylates the 3' end of mRNA precursors. This gene, the homolog of yeast Fip1 (factor interacting with PAP), binds to U-rich sequences of pre-mRNA and stimulates poly(A) polymerase activity. Its N-terminus contains a PAP-binding site and its C-terminus an RNA-binding domain. An interstitial chromosomal deletion on 4q12 creates an in-frame fusion of human genes FIP1L1 and PDGFRA (platelet-derived growth factor receptor, alpha). The FIP1L1-PDGFR $\alpha$  fusion gene encodes a constitutively activated tyrosine kinase that joins the first 233 amino acids of FIP1L1 to the last 523 amino acids of PDGFRA. This gene fusion and chromosomal deletion is the cause of some forms of idiopathic hypereosinophilic syndrome (HES). This syndrome, recently reclassified as chronic eosinophilic leukemia (CEL), is responsive to treatment with tyrosine kinase inhibitors. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Oct 2008]

**Product images:**


Circular map for RG225893