

Product datasheet for **RC225893**

FIPIL1 (NM_001134938) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	FIPIL1
Synonyms:	FIP1; hFip1; Rhe
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC225893 representing NM_001134938
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCGGCCGCGGAGGTCGAGCGCCTAGTGTGCGAGCTGAGCGCGGGACCGAGGGGATGAGGAGGAAG
 AGTGGCTCTATGGCGATGAAAATGAAGTTGAAAGGCCAGAAGAAGAAATGCCAGTGCCTAATCCTCCATC
 TGGAAATTGAAGATGAACTGCTGAAAATGGTGTACAAAACCGAAAGTGACTGAGACCGAAGATGATAGT
 GATAGTGACAGCGATGATGTAAGATGATGTTTCTGCTACTATAGGAGACATTAACCGGGAGCACCAC
 AGTGATGGGAGTTATGGTACAGCACCTGTAATCTTAACATCAAGACAGGGGGAAGAGTTTATGAACTAC
 AGGGACAAAAGTCAAAGGAGTAGACCTTGATGCACCTGGAAGCATTAAATGGAGTTCCACTCTTAGAGGTA
 GATTTGGATTCTTTTGAAGATAAACCATGGCGTAAACCTGGTGTGATCTTTCTGATTATTTTAATTATG
 GGTTTAAATGAAGATACCTGGAAGCTTACTGTGAAAAACAAAAGAGGATACGAATGGGACTTGAAGTTAT
 ACCAGTAACCTCTACTACAAAATAAATTACGGTACAGCAGGGAAGAACTGGAAGTACAGAGAAAGAACT
 GCCCTTCCATCTACAAAAGCTGAGTTTACTTCTCTCTTCTTTGTTCAAGACTGGGCTTCCACCGAGCA
 GGAGATTACCTGGGGCAATTGATGTTATCGGTACAGCTATAACTATCAGCCGAGTAGAAGGCAGGCGACG
 GGCAATGAGAACGACAACATACAGGTCTTTCTGAAAGATCTGCTACTGAAGTAGACAACAATTTAGC
 AAACCACTCCGTTTTTCCCTCCAGGAGCTCCTCCACTCACCTTCCACCTCCTCCATTTCTTCCACCTC
 CTCCGACTGTGAGCACTGCTCCACCTCTGATTCCACCACCGGGTTTTCTCTCCACCAGGCGCTCCACC
 TCCATCTCTTATACCAACAATAGAAAGTGGACATTCTCTGGTTATGATAGTCGTTCTGCACGTGCATTT
 CCATATGGCAATGTTGCCTTTCCCATCTTCTGGTTCTGCTCCTCGTGGCCTAGTCTTGTGGACACCA
 GCAAGCAGTGGGACTATTATGCCAGAAGAGAGAAAGACCGAGATAGAGAGAGAGACAGAGACAGAGAGCG
 AGACCGTGATCGGGACAGAGAAAGAGAACGCACAGAGAGAGAGAGAGGGAGCGTGATCACAGTCTTACA
 CCAAGTGTTTTCAACAGCGATGAAGAACGATACAGATACAGGGAATATGCAGAAAGAGGTTATGAGCGTC
 ACAGAGCAAGTCGAGAAAAAGAAGAACGACATAGAGAAAGACGACACAGGGAGAAAGAGGAAACAGACA
 TAAGTCTTCTGAAGTAATAGTAGAGCTGCCATGAAAGTGAAGAAGGAGATAGTCACAGGAGACACAAA
 CACAAAAAATCTAAAAGAAGCAAAGAAGAAAGAGCGGGCAGTGAGCCTGCCCTGAACAGGAGAGCA
 CCGAAGCTACACCTGCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225893 representing NM_001134938
 Red=Cloning site Green=Tags(s)

MSAGEVERLVSEL SGGTGGDEEEWLYGDENEVERPEEENASANPPSGIEDETAENGVPKPKVTETEDDS
 DSDSDDDDVHVTIGDIKTGAPQYGSYGTAPVNLNIKTGGRVYGTGTGKVKGVLDLAPGSINGVPLLEV
 DLDSFDEKPKWRPGADLSDYFNYGFNEDTWKAYCEKQKIRMGLEVIPVTSTTNKITVQQGRTGNSEKET
 ALPSTKAEFTSPPSLFTGLPPSRRLPGAIDVIGQITISRVEGRRRANENSNIQVLSERSATEVDNNFS
 KPFPFPFGAPPHLPPPPFLPPPPTVSTAPPLIPPPGFPPPPGAPPPSLIPTIESGHSSGYDSRSARAF
 PYGNVAFPHLPGSAPSWPSLVDTSKQWDYYARREKDRDRERDRDRDRDRERERTRERERERDRHSPT
 PSVFNSEERYRYREYAERGERHRASREKEERHRERHREKEETRHKSSRSNSRRRHESEEGDSSHRRHK
 HKKSKRSKEGKEAGSEPAPEQEESTATPAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8065_c02.zip

Restriction Sites: SgfI-MluI

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.

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

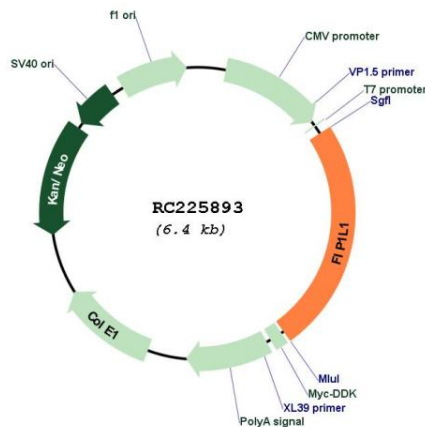
RefSeq: [NM_001134938.2](#)

RefSeq ORF: 1563 bp

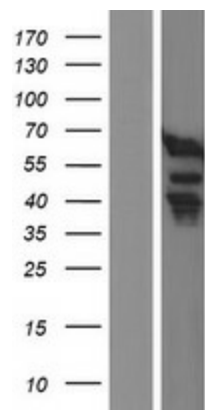
Locus ID: 81608
UniProt ID: [Q6UN15](#)
Cytogenetics: 4q12
MW: 58.2 kDa

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 FIPIL1 and PDGFRA (platelet-derived growth factor receptor, alpha). The FIPIL1-PDGFRA fusion gene encodes a constitutively activated tyrosine kinase that joins the first 233 amino acids of FIPIL1 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 RC225893



Western blot validation of overexpression lysate (Cat# [LY427513]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225893 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).