

Product datasheet for **RC214394**

PAF49 (CD3EAP) (NM_012099) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAF49 (CD3EAP) (NM_012099) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PAF49
Synonyms:	ASE-1; ASE1; CAST; CD3EAP; PAF49; RPA34
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC214394 representing NM_012099
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGAGCCCCAGGCCGCGATGCTGCTCGGTTCTCTTGTCCTCCCACTTTACCGCGAAGCCCCCAG
 CCTCAGAGTCCCCCTGTTTCTCCTTGGAGGCGCTGACGGGTCCAGATACGAGAGTGTGGCTTATTAGGC
 CCCTGCAGACTTTGCCCCAGAATGCTTCAATGGCGCGCATGTGCCTCTCTCTGGCTCCAGATCGTCAAG
 GGCAAATTGGCAGGCAAGCGGCACCGCTATCGAGTCTCAGCAGCTGTCCCCAAGCTGGAGAAGCGACCC
 TGCTGGCCCCCTCAACGGAGGCAGGAGGTGGACTCACCTGTGCCTCAGCCCCCAGGGCACCCCTAAGGAT
 CCTTGAGGGTCCCCAGCAATCCCTGTGAGGAGCCCTCTGAGCCATCCAGCAAGTCCCCACCCAG
 ATCCCTCTGGCCTGAGGCTCGGTTCTGTGCCTTTGGGGCAACCCACCAGTCACAGGGCTAGGTCAG
 CCTTGGCCCCAACCTGCTCACCTCAGGAAGAAGAAAAAGGAGATGCAGGTGACAGAGGCCCCAGTCAC
 TCAGGAGGCAGTGAATGGGCACGGGGCCCTGGAGGTGGACATGGCTTTGGGTGCGCAGAAATGGATGTG
 CGGAAGAAGAAGAAGAAAAAATCAGCAGCTGAAAGAACCAGAGGCAGCAGGGCCCTGTGGGGACAGAGC
 CCACAGTGGAGACACTGGAGCCTCTGGGAGTGCTGTTCCCGTCCACCACCAAGAAGAGGAAGAAGCCAA
 AGGGAAAGAAACCTTCGAGCCAGAAGACAAGACAGTGAAGCAGGAACAGATTAACACTGAGCCTCTAGAA
 GACACAGTCTGTCCCCGACCAAAAGAGAAAGAGGCAAAAGGGGACGGAAGGGATGGAGCCAGAGGAGG
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 GAAGAAGAGGAAAAAAGAAAGGACAGATGGCAATGATGGAGCCAGGACGGAGGCGATGGAGCCAGTG
 GAGCCGGAGATGAAGCCTCTGGAGTCCCCAGGGGGACCATGGCGCTCAACAGCCAGAAGGAGCGAAGC
 CTCAGGCCAGGCAGCTCTGGCAGCTCCCAAAAGAAGACGAAGAAGAAAAACGAAGATGCCACAGT
 GGAGCCAGAGACAGAGGTGGTGGGGCCTGAGCTGCCGGATGACCTTGAGCCTCAGGCAGCTCCACATCC
 ACCAAGAAGAAGAAGAAGAAGAAAGAGAGAGGTACACAGTGAAGTGAAGCAATTCAGCCACTAGAGCCTG
 AACTGCCAGGGGAGGACAGCCTGAAGCCAGGGCAACTCCGGGATCCACCAAGAAGAGGAAGAAGCAGAG
 TCAGGAAAGCCGGATGCCAGAGACAGTCCCCAAGAGGAGATGCCAGGGCCGCCACTGAATTCAGAGTCT
 GGGGAGGAGGCTCCACAGGCCGGGACAAGAAGCGGAAGCAGCAGCAGCAGCAGCCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214394 representing NM_012099
 Red=Cloning site Green=Tags(s)

MEEPQAGDAARFSCPPNFTAKPPASESPRFSLEALTGPDELWLIQAPADFAPECFNGRHVPLSGSQIVK
 GKLAGKRHRVRLSSCPQAGEATLLAPSTEAGGLTCASAPQGLRILEGPQQSLSGSPLQPIPASPPQ
 IPPGLRPRFCAFGNPPVTGPRSALAPNLLTSGKKKEMQVTEAPVTQEAVNGHGALEVDMLGSPEMDV
 RKKKKKKNQQLKEPEAAGPVGTEPTVETLEPLGVLPSTTKRKKPKGKETFEPEDKTVKQEQINTEPLE
 DTVLSPTKKRKRQKGTEGMEPEGVTVESQPQVKEPLEEAIPLPPTKKRKKKEGQMAMMEPGTEAMEPV
 EPEMKPLESPGGTMAPQQPEGAKPQAALAAPKKKTKKEKQDQATVEPETEVVGPPELPDDLEPQAAPTS
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 GEEAPTGRDKKRKQQQQPV

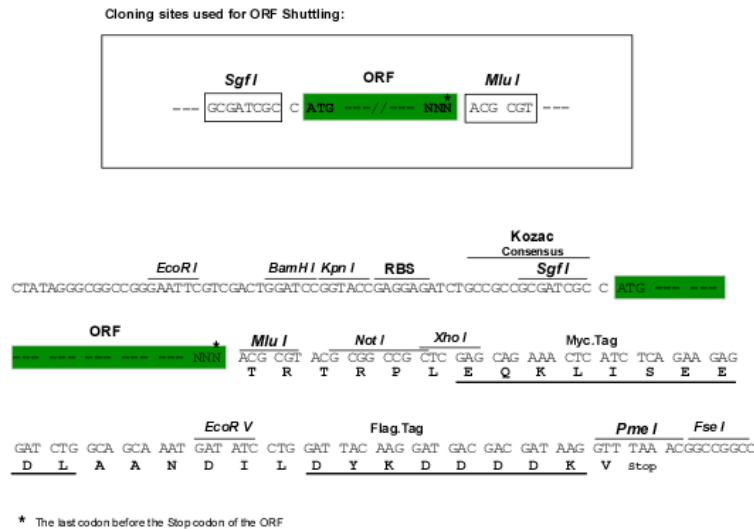
TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6271_d04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_012099

ORF Size: 1530 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_012099.3](#)

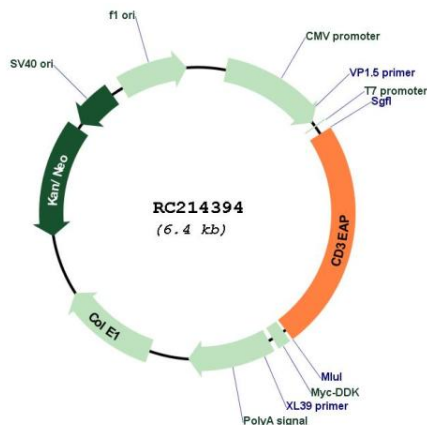
RefSeq Size: 3286 bp

RefSeq ORF: 1533 bp

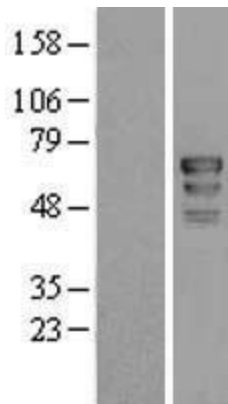
Locus ID: 10849

UniProt ID:	<u>O15446</u>
Cytogenetics:	19q13.32
Protein Families:	Transcription Factors
MW:	54.8 kDa
Gene Summary:	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Component of RNA polymerase I which synthesizes ribosomal RNA precursors. Isoform 1 is involved in UBTF-activated transcription, presumably at a step following PIC formation.[UniProtKB/Swiss-Prot Function]

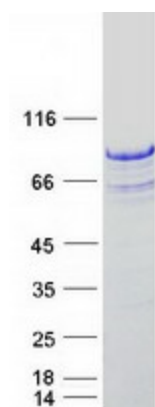
Product images:



Circular map for RC214394



Western blot validation of overexpression lysate (Cat# [LY415980]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214394 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD3EAP protein (Cat# [TP314394]). The protein was produced from HEK293T cells transfected with CD3EAP cDNA clone (Cat# RC214394) using MegaTran 2.0 (Cat# [TT210002]).