

## Product datasheet for **RG214394**

### 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:	TurboGFP
Symbol:	PAF49
Synonyms:	ASE-1; ASE1; CAST; CD3EAP; PAF49; RPA34
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214394 representing NM\_012099  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGGAGCCCCAGGCCGGCGATGCTGCTCGGTTCTCTTGTCACCCCACTTTACCGCGAAGCCCCAG  
 CCTCAGAGTCCCCTCGTTTCTCCTTGGAGGCGCTGACGGGTCCAGATACGGAGCTGTGGCTATTACGGC  
 CCTGCAGACTTTGCCCCAGAATGCTTCAATGGCGGCATGTGCCTCTCTCTGGCTCCAGATCGTCAAG  
 GGCAAATTGGCAGGCAAGCGGCACCGCTATCGAGTCTCAGCAGCTGTCCCAAGCTGGAGAAGCGACCC  
 TGCTGGCCCCCTCAACGGAGGCAGGAGGTGGACTCACCTGTGCCTCAGCCCCCAGGGCACCCCTAAGGAT  
 CCTTGAGGGTCCCAGCAATCCCTGTGAGGAGCCCTCTGCAGCCATCCCAGCAAGTCCCCACCACAG  
 ATCCCTCTGGCCTGAGGCTCGGTTCTGTGCCTTTGGGGCAACCCACCAGTACAGGGCTAGGTCAG  
 CCTTGGCCCCAACCTGCTCACCTCAGGAAGAAGAAAAAGGAGATGCAGGTGACAGAGGCCCCAGTCAC  
 TCAGGAGCAGTGAATGGGCACGGGCCCTGGAGGTGGACATGGCTTTGGGGTGCAGCAAAATGGATGTG  
 CGGAAGAAGAAGAAGAAAAAAATCAGCAGCTGAAAGAACCAGAGGCAGCAGGGCCCTGTGGGGACAGAGC  
 CCACAGTGGAGACTGGAGCCTCTGGGAGTGTGTTCCCGTCCACCACCAAGAAGAGGAAGAAGGCCAA  
 AGGGAAAGAAACCTTCGAGCCAGAAGACAAGACAGTGAAGCAGGAACAGATTAACACTGAGCCTCTAGAA  
 GACACAGTCTGTCCCGACCAAAAAGAGAAAGAGGCAAAAGGGGACGGAAGGGATGGAGCCAGAGGAGG  
 GGGTGACAGTTGAGTCTCAGCCACAGGTGAAGTGGAGCCACTGGAGGAAGCCATCCCTCTGCCCTAC  
 GAAGAAGAGGAAAAAAGAAAAGGGACAGATGGCAATGATGGAGCCAGGGACGGAGCGCATGGAGCCAGTG  
 GAGCCGGAGATGAAGCCTCTGGAGTCCCCAGGGGGACCATGGCGCTCAACAGCCAGAAGGAGCGAAGC  
 CTCAGGCCAGGCAGCTCTGGCAGCTCCAAAAAGAAGACGAAGAAAGAAAAACAGCAAGATGCCACAGT  
 GGAGCCAGAGACAGAGGTGGTGGGGCCTGAGCTGCCGGATGACCTTGAGCCTCAGGCAGTCCCACATCC  
 ACCAAGAAGAAGAAGAAGAAGAAAGAGAGAGGTACACAGTGAAGTGGCCAAATCAGCCACTAGAGCCTG  
 AACTGCCAGGGGAGGACAGCCTGAAGCCAGGGCAACTCCGGGATCCACCAAGAAGAGGAAGAAGCAGAG  
 TCAGGAAAGCCGGATGCCAGAGACAGTCCCCAAGAGGAGATGCCAGGGCCGCCACTGAATTCAGAGTCT  
 GGGGAGGAGGCTCCCACAGGCCGGGACAAGAAGCGGAAGCAGCAGCAGCAGCAGCCTGTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG214394 representing NM\_012099  
 Red=Cloning site Green=Tags(s)

MEEPQAGDAARFSCPPNFTAKPPASESPRFSLEAL TGPDELWL IQAPADFAPECFNGRHVPLSGSQIVK  
 GKLAGKRHRVRLSSCPQAGEATLLAPSTEAGGGLTCASAPQGTLRILEGPQQSLSGSPLQPIPASPPPQ  
 IPPGLRPRFCAFGGNPPVTGPRALAPNLLTSGKKKKEMQVTEAPVTQEAVNGHGALEVDMALGSPEDV  
 RKKKKKKNQQLKEPEAAGPVGTEPTVETLEPLGVLPSTTKRKKPKGKETFEPEDKTVKQEQINTEPLE  
 DTVLSPTKKRKRQKTEGMEPEEGVTVESQPQVVEPLEEAIPLPPTKKRKKKEKGMAMMEPGTEAMEPV  
 EPEMKPLESPGGTMAPQQPEGAKPQAALAAPKKTKEKQQDATVEPETEVVGPPELPPDLEPQAAPTS  
 TKKKKKKERGHTVTEPIQPLEPELPGEGQPEARATPGSTKKRKKQSQESRMPETVPQEEMPGLNSENSE  
 GEEAPTGRDKRKRQQQQPV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-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](#)

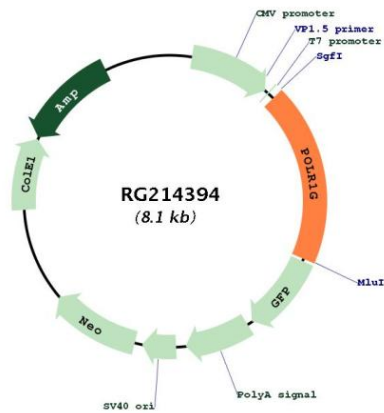
**RefSeq Size:** 3286 bp

**RefSeq ORF:** 1533 bp

**Locus ID:** 10849

UniProt ID: [O15446](#)  
 Cytogenetics: 19q13.32  
 Protein Families: Transcription Factors  
 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 RG214394