

Product datasheet for **RG204811**

PRAF1 (POLR1E) (NM_022490) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRAF1 (POLR1E) (NM_022490) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRAF1
Synonyms:	A49; PAF53; PRAF1; RPA49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204811 representing NM_022490 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGGAGGTGTTGCCGAGTGCAGGTGGCAGTATTGTGGGGCGCCGACGGGAGCCAGAGAGCTG
TACTGGTCCAGTTCTCCAACGGGAAGCTACAGAGTCCAGGCAACATGCGCTTTACCTTGATGAGAACAA
AGATTCCACCAACCCAGGAAGAGGAATCAACGGATCCTGGCAGCTGAAACAGATAGGCTCTCCTATGTG
GAAACAATTTGGGACTGGAGCCCTCAAATGCAACACTTTGTGCAGGCACCTTTGTGGGAATTTGAACA
AGACCTCTGGCCAAATGGAAGTATATGATGCTGAATTGTTCAACATGCAGCCACTATTTTCAGATGTATC
AGTTGAGAGTGAAGTGGCTCTAGAGAGTCAGACCAAACTTACAGAGAAAAGATGGATTCTTGATTGAA
GCCTTTGGTACCACTAAACAGAAGCGAGCTCTGAACACCAGGAGAATGAACAGAGTTGGCAATGAATCTT
TGAATCGTGACGTGGCTAAAGCTGCAGAGACTATCATTGATACGAAGGGTGTGACTGCTCTGGTCAGCGA
TGCTATCCACAATGACTTGCAAGATGACTCCCTCTACCTTCTCCCTGCTATGATGATGCAGCCAAGCCT
GAAGACGTGTATAAATTTGAAGATCTTCTTTCCCTGCGGAGTATGAAGCTCTTCAGAGCCCATCTGAAG
CTTTCAGGAACGTCACGTGAGAAGAACTGAAGATGATTGAGGAGAACAGCCATTGCACCTTTGTCAT
AGAAGCGTTGAAGTCTTTGCCATCAGATGTGGAGAGCCGAGACCCAGGCCGATGCATATGGTTTCTG
GATACCTCATCAAATTTGAGCTCATAGGGTAGTTAAGCGGAAAAGTCTCTGGGACCTGGAGTTCCCC
ACATCATCAACACCAAACCTGCTGAAGCACTTTACCTGCTTGACCTACAACAATGGCAGATTACGGAACTT
AATTTGCGATTCTATGAAGGCGAAGATTACTGCATATGTGATCATACTTGCCCTTGACATACATGACTTC
CAAATTGACCTGACAGTGTACAGAGGGACTTGAAGCTCAGTGAGAAAAGGATGATGGAGATAGCCAAAG
CCATGAGGCTGAAGATCTCCAAAAGAAAGGTGTCTGTGGCCGCCGCGCAGTGAAGAAGATCACAACTGGG
CACCTGTCCCTCCGCTGCCTCCAGCCAGACCTCAGACCGCTGGCAAAGCGGAGGAAGATTACC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204811 representing NM_022490
Red=Cloning site Green=Tags(s)

MAAEVLPSARWQYCGAPDGSQRAVLVQFSNGKLQSPGNMRFITYENKDSTNPRKRNQRILAAETDRLSYV
 GNNFGTGALKCNTLCRHFVIGILNKTSGQMEVYDAELFNMQPLFSDVSVSELALESQTKTYREKMDSCIE
 AFGTTKQKRALNTRRMNRVGNESLNRAVAKAAETIIDTKGVTALVSDAIHNDLQDDSLYLPPCYDDAAKP
 EDVYKFEDLLSPAIEYALQSPSEAFRNVTSEEILKMIENSHCTFVIEALKSLPSDVESRDRQARCIWFL
 DTLIKFRAHRVVKRSALGPGVPHIINTKLLKHFTCLTYNNGRLRNLISDSMKAKITAYVIILALHIHDF
 QIDLTVLQRDLKSEKRMMEIAKAMRLKISKRVSVAAAGSEEDHKLGTLSLPLPPAQTSDRLAKRRKIT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022490

ORF Size: 1257 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_022490.1](#), [NP_071935.1](#)

RefSeq Size: 1854 bp

RefSeq ORF: 1260 bp

Locus ID: 64425

UniProt ID: [Q9GZS1](#)

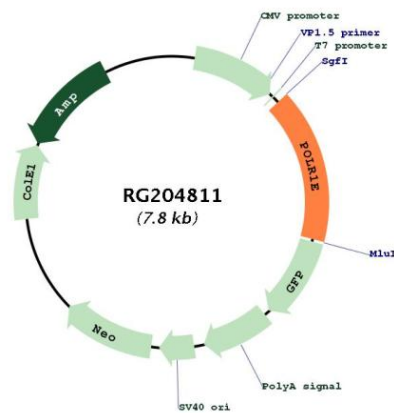
Cytogenetics: 9p13.2

Protein Families: Transcription Factors

Protein Pathways: Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase

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. Appears to be involved in the formation of the initiation complex at the promoter by mediating the interaction between Pol I and UBTF/UBF (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204811