

Product datasheet for RC216517

POLR1A (NM_015425) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR1A (NM_015425) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POLR1A
Synonyms:	A190; AFDCIN; RPA1; RPA190; RPA194; RPO1-4; RPO14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216517 representing NM_015425 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGC**C

ATGTTGATCTCCAAGAACATGCCCTGGCGGCGGCTGCAGGGCATTTCCTTCGGGATGTATTCGGCTGAAG
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CACCCAGGAGCCTCCATGGTCATCAATGAGGACGGCAGCCGCACAGCCCTGAGCGCTGTGGACATGACCC
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Protein Sequence:

>RC216517 representing NM_015425
Red=Cloning site Green=Tags(s)

MLISKMPWRRLQGISFGMYSAEELKKLSVKSITNPRYLDSLGNPSANGLYDLALGPADSKEVCSTCVQD
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LPEEVATPTTDEEKDSLIAIDRSFLSTLPGQSLIDKLYNIWIRLQSHVNI VFDSEMDKLMMDKYPGIRQI
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IQDHMVS GASMTTRGCF TREHYMELVYRGLTDKVGKLLSPSILKPFPLWTGKQVSTLLINIIPEDH
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TYGIEAALRVIEKEIKDVFAVYGI AVDPRLSLVADYMCFEVYKPLNRFGRSNS SPLQMTFETSFQF
LKQATMLGSHDEL RSPSACL VVGKVVRRGGTGLFELKQPLR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8119_c08.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_015425

ORF Size: 5160 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_015425.6](#)

RefSeq Size: 6637 bp

RefSeq ORF: 5163 bp

Locus ID: 25885

UniProt ID: [O95602](#)

Cytogenetics: 2p11.2

Domains: RNA_pol_Rpb1_2, RPOLA_N, RNA_pol_Rpb1_3, RNA_pol_Rpb1_1, RNA_pol_Rpb1_5, RNA_pol_Rpb1_4

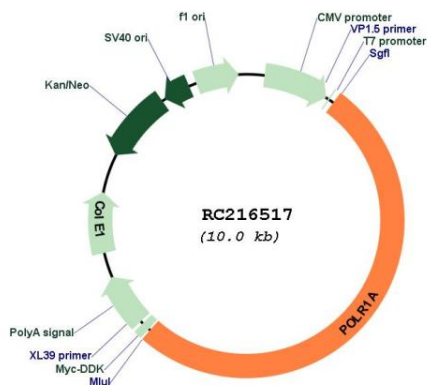
Protein Families: Transcription Factors

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

MW: 195.3 kDa

Gene Summary: The protein encoded by this gene is the largest subunit of the RNA polymerase I complex. The encoded protein represents the catalytic subunit of the complex, which transcribes DNA into ribosomal RNA precursors. Defects in this gene are a cause of the Cincinnati type of acrofacial dysostosis. [provided by RefSeq, May 2016]

Product images:



Circular map for RC216517