

## Product datasheet for RC216765

### POLR2A (NM\_000937) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	POLR2A (NM_000937) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POLR2A
Synonyms:	hRPB220; hsRPB1; NEDHIB; POLR2; POLRA; RPB1; RPBh1; RpIILS; RPO2; RPOL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216765 representing NM_000937 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

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GAGTCTGAGTCCGGATGAAGTGAAGCGAATGTCTGTGACGGAGGGTGGCATCAAATACCCAGAGACGAC  
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**Protein Sequence:**

>RC216765 representing NM\_000937  
 Red=Cloning site Green=Tags(s)

MHGGGPPSGDSACPLRTIKRVQFGVLSPELKRMSVTEGGIKYPETTEGGRPKLGGMLDPRQGVIERGTR  
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 TSPDSDDEEN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1890\\_e05.zip](https://cdn.origene.com/chromatograms/ja1890_e05.zip)



**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\\_000937.5](#)

**RefSeq Size:** 6738 bp

**RefSeq ORF:** 5913 bp

**Locus ID:** 5430

**UniProt ID:** [P24928](#)

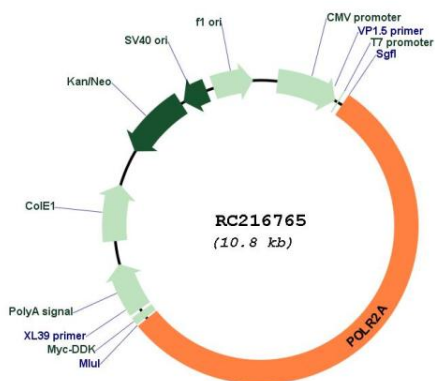
**Cytogenetics:** 17p13.1

**Protein Pathways:** Huntington's disease, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase

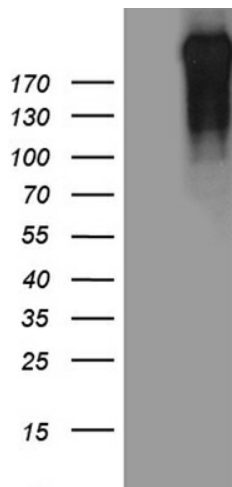
**MW:** 217.2 kDa

**Gene Summary:** This gene encodes the largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. The product of this gene contains a carboxy terminal domain composed of heptapeptide repeats that are essential for polymerase activity. These repeats contain serine and threonine residues that are phosphorylated in actively transcribing RNA polymerase. In addition, this subunit, in combination with several other polymerase subunits, forms the DNA binding domain of the polymerase, a groove in which the DNA template is transcribed into RNA. [provided by RefSeq, Jul 2008]

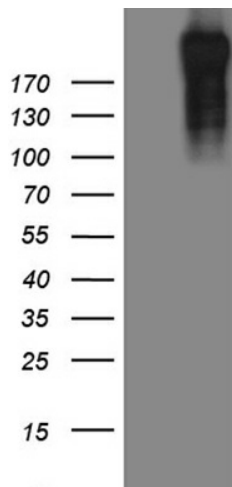
### Product images:



Circular map for RC216765



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY POLR2A (RC216765, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-POLR2A (1:500).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY POLR2A (Cat# RC216765, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-POLR2A (Cat# [TA810050])(1:500).