

## Product datasheet for **RG200440**

### **RPB2 (POLR2B) (NM\_000938) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPB2 (POLR2B) (NM_000938) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POLR2B
Synonyms:	hRPB140; POL2RB; RPB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200440 representing NM_000938 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG200440 representing NM\_000938  
 Red=Cloning site Green=Tags(s)

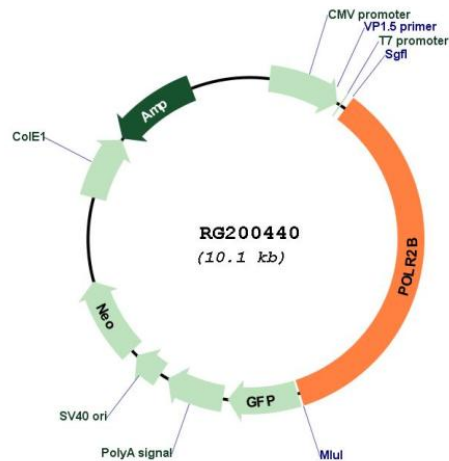
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 LIECLQKVSANKGEIGDAPFNDVNVQKISNLLSDYGYHLRGNVLYNGFTGRKITSQIFIGPTYQQR  
 LKHMVDDKIHSRARGPIQLNRQPMGRSRDGGGLRFGEMERDCQIAHGAAQFLRERLFEASDPYQVHVNC  
 LCGIMAIANTRTHTYECRGCRNKTIISLVRMPYACKLLFQELMSMSIAPRMMSV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI  
**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_000938

ORF Size: 3522 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\\_000938.1](#), [NP\\_000929.1](#)

RefSeq Size: 3748 bp

RefSeq ORF: 3525 bp

Locus ID: 5431

UniProt ID: [P30876](#)

Cytogenetics: 4q12

<b>Domains:</b>	RNA_pol_Rpb2_6, RNA_pol_Rpb2_7, RNA_pol_Rpb2_2, RNA_pol_Rpb2_1, RNA_pol_Rpb2_3, RNA_pol_Rpb2_4, RNA_pol_Rpb2_5
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Huntington's disease, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase
<b>Gene Summary:</b>	This gene encodes the second largest subunit of RNA polymerase II (Pol II), a DNA-dependent RNA polymerase that catalyzes the transcription of DNA into precursors of mRNA, snRNA and microRNA. This subunit and the largest subunit form opposite sides of the center cleft of Pol II. Deletion of the flap loop region of this subunit results in a decrease in the rate of transcriptional elongation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]