

## Product datasheet for **RG201317**

### **POLR2C (NM\_032940) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	POLR2C (NM_032940) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POLR2C
Synonyms:	hRPB33; hsRPB3; RPB3; RPB31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201317 representing NM_032940 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGTACGCCAACCCAGCCTACCGTGC GGATCACGGAGCTCACTGACGAGAATGTCAAGTTCATCATCG  
AGAACACCCGACCTGGCGGTGGCCAATTCGATTCGGAGGGTCTTCATCGCTGAGGTCCCATAATAGCCAT  
TGACTGGGTT CAGATTGATGCCAATTCCTCAGTCTTCATGATGAATTCATTGCTCACAGGCTTGGATTA  
ATCCCCTCATTAGTGATGACATTGTGGACAAGCTGCAGTACTCTCGGGACTGCACATGTGAGGAGTTCT  
GCCCCGAGTGCTCGGTGGAGTTCACCCTCGATGTGCGGTGCAATGAAGACCAGACGCGACATGTCACGTC  
TCGAGACCTCATCTCAAACAGCCCCGGGTCATTCGGGTGACATCCCGGAACCGAGATAATGACCCCAAT  
GACTACGTGGAGCAGGATGACATCCTCATCGTCAAGTTGAGAAAGGGCCAGGAGCTGAGACTTCGAGCCT  
ATGCCAAAAGGGCTTTGGCAAGGAGCATGCCAAGTGAACCCCTACTGCAGGGGTGGCTTTTGAATACGA  
TCCAGACAATGCCCTGAGGCACACAGTGTACCCCAAGCCCGAGGAATGGCCAAAGAGTGAGTACTCGGAG  
CTGGATGAGGATGAGTCGCAGGCTCCCTATGACCCCAACGGCAAGCCAGAAAGGTTTTACTACAATGTGG  
AGTCTGTGGCTCTCTGCGTCTGAAACCATTGTCTGTGAGCCCTCTCAGGATTGAAGAAGAACTGAG  
TGATTTACAACTCAATTAAGCCACGAGATCCAGAGTGATGTGCTAACCATAAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201317 representing NM\_032940  
 Red=Cloning site Green=Tags(s)

MPYANQPTVRITELTDENVKFIIENTDLAVANSIRRVFIAEVPIIAIDWVQIDANSSVLHDEFIAHRLGL  
 IPLISSDDIVDKLQYSRDCTCEEFCEPCSVFTLDVRCNEDQTRHVTSRDLISNSPRVIPVTSRNRDNDPN  
 DYVEQDDILIVKLRKGQELRLRAYAKKGFGEKHAKNPTAGVAFEYDPDNALRHTVYPKPEEWPKSEYSE  
 LDEDESQAPYDPNGKPERFYNNVESCGLSRPETIVLSALSGLKKKLSLQLTQLSHEIQSDVLTIN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_032940

**ORF Size:** 825 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\\_032940.3](#)

**RefSeq Size:** 1822 bp

**RefSeq ORF:** 828 bp

**Locus ID:** 5432

**UniProt ID:** [P19387](#)

**Cytogenetics:** 16q21

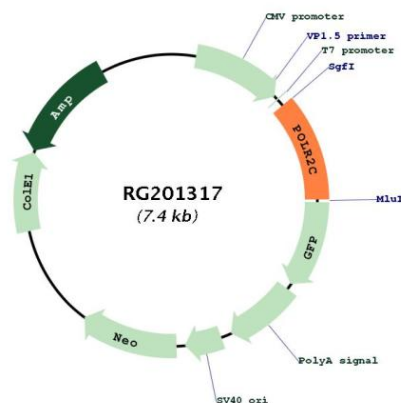
**Domains:** RNA\_pol\_A\_bac

**Protein Families:** Druggable Genome, Transcription Factors

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

**Gene Summary:** This gene encodes the third largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. The product of this gene contains a cysteine rich region and exists as a heterodimer with another polymerase subunit, POLR2J. These two subunits form a core subassembly unit of the polymerase. A pseudogene has been identified on chromosome 21. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG201317