

## Product datasheet for **SC321402**

### **POLR2C (NM\_032940) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	POLR2C (NM_032940) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR2C
Synonyms:	hRPB33; hsRPB3; RPB3; RPB31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_032940.2  
 CCGTGGCGCCGCGCAGTCACCGCGGAGCAGACGCGGAGGCTGGTGGCCCTGGGCGAGAT  
 GCCGTACGCCAACCCAGCCTACCGTGC GGATCACGGAGCTCACTGACGAGAATGTCAAGTT  
 CATCATCGAGAACCCGACCTGGCGGTGGCCAATTCGATTCGGAGGGTCTTCATCGCTGA  
 GGTTCCCATAAATAGCCATTGACTGGGTTGAGATTGATGCCAATTCCTCAGTTCTTCATGA  
 TGAATTCATTGCTCACAGGCTTGATTAATCCCCTCATTAGTGATGACATTGTGGACAA  
 GCTGCAGTACTTCGGGACTGCACATGTGAGGAGTTCTGCCCGAGTGCTCGGTGGAGTT  
 CACCCTCGATGTGCGGTGCAATGAAGACCAGACGCGACATGTCAGTCTCGAGACCTCAT  
 CTCCAACAGCCCCGGGTCAATCCGGTGACATCCCGGAACCGAGATAATGACCCCAATGA  
 CTACGTGGAGCAGGATGACATCCTCATCGTCAAGTTGAGAAAAGGGCCAGGAGCTGAGACT  
 TCGAGCCTATGCCAAAAAGGGCTTTGGCAAGGAGCATGCCAAGTGAACCCCTACTGCAGG  
 GGTGGCTTTTGAATACGATCCAGACAATGCCCTGAGGCACACAGTGTACCCCAAGCCCGA  
 GGAATGGCCAAAGAGTGAGTACTCGGAGCTGGATGAGGATGAGTCGCAGGCTCCCTATGA  
 CCCCACGGCAAGCCAGAAAGGTTTTACTACAATGTGGAGTCTGTGGCTCTCTGCGTCC  
 TGAACCATTGTCTGTGACCCCTCTCAGGATTGAAGAAGAACTGAGTGATTTACAAC  
 TCAATTAAGCCACGAGATCCAGAGTGATGTGCTAACCATAAATTAAGTGCAGCTTGCCTG  
 CTTGAGCAAAAACGGAGATTCAGGCCAGCAGCTGGATATGGGGGTCTCTCTTCAGACTCT  
 TCTCGTTTCTGAGAACTAGTCTACTGTTGGTTGAGCTTCTTGGCAGGACATCAGTACCA  
 ACTAGAAGTGGGTCATAGATAGATTACCAGGGATGCAGTGGTGTTTAGGCAGGATAGGTC  
 TTTACTGGCCCTGACTGCTGTTAATAATTGGCAGCAGTGTCCCCAGATCCCAGAAGGTC  
 CCTGCTGGAGTGTTCAGTGCACCTGTAGGGAACCACTAGACTTCTCTCTGTTAGT  
 CCAGCTCTTACTCTAAACCCCTTCTGTCCAAAATGAGTCATTTTCAGTTGTACCTTAGA  
 TGTCTGGTGTGAGGATCAAGTGCCATAGCCTTTATTCAGGGGGCCTATAAACCCCTTCCA  
 GTTCTTGCCCCAGGGCTGGCCTGCTAGCGCTTCAAATTCAGGTGTCCCTAATTTGAGA  
 AGTAACCTTTTGAATAGCATTAGACCCTGGCTGTCCCCTCCCCACCAATAAACATGAT  
 ATTTATTCTCTGTCCAGCAGTCATGAACCCCTCACCTCCAATGACCTGATCATTTAGT  
 TTGGTGGGGTGGGGTGGGGTGGGGTGGAAAGCAGCCGAGGAGCAAGGGCCCTCCC  
 ACATACACAGGAGGAGTATTTTCATTTCTCCTAATGAAGGCTCTGGCCCTAACCCCTCAG  
 CACTGTCTCCAGATAGGAACATGCACAAAGCAGTTAATTAGGCAGCCTGGAGAAAACCAG  
 AGATCCAGTACAGAAAGGAAAGGATATTTATTGATTAACAGAAGTTGTCTTTTTAAAGT  
 GTTTATTTTGGCAATAAAGAGCACATAATCTCAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_032940

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_032940.2</a> , <a href="#">NP_116558.1</a>
<b>RefSeq Size:</b>	1822 bp
<b>RefSeq ORF:</b>	828 bp
<b>Locus ID:</b>	5432
<b>UniProt ID:</b>	<a href="#">P19387</a>
<b>Cytogenetics:</b>	16q21
<b>Domains:</b>	RNA_pol_A_bac
<b>Protein Families:</b>	Druggable Genome, 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 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]