

## Product datasheet for **SC117116**

### **POLR2D (NM\_004805) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	POLR2D (NM_004805) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR2D
Synonyms:	HSRBP4; HSRPB4; RBP4; RPB4; RPB16
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004805, the custom clone sequence may differ by one or more nucleotides

```
ATGGCGGCGGGTGGCAGCGATCCGCGGGCTGGCGACGTAGAGGAGGACGCCTCACAGCTCATCTTTCCTA
AAGAGTTTGAAACAGCTGAGACACTTCTAAATTCAGAAGTTCATATGCTTCTGGAACATCGAAAGCAGCA
GAATGAGAGTGCAGAGGACGAACAGGAGCTCTCAGAAGTCTTCATGAAAACATTAACACAGCCCGT
TTCAGTCGTTTCAAAAACAGAGAGACCATTGCCAGTGTCGTAGCTTGCTACTCCAGAAAAGCTTCATA
AGTTTGAGTTGGCCTGTTTGCCCAACCTTTGCCAGAGACTGCTGAGGAGTCCAAGGCTCTAATCCCAAG
CTTGGAGGGACGGTTTGAAGATGAGGAGCTGCAGCAGATTCTTGATGATATCCAGACAAAAGCGCAGCTTT
CAGTATTAA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004805 unedited  
 GGATTTTGAATACGACTTCACTATAGGGCGGCCGCAATTCGCACGAGGCGGCGCGGG  
 CCGCGATGGCGGCGGGTGGCAGCGATCCGCGGGCTGGCGACGTAGAGGAGGACGCCTCAC  
 AGCTCATCTTTCCATAAGAGTTTAAACAGCTGAGACACTTCTAAATTCAGAAGTTCATA  
 TGCTTCTGGAACATCGAAAGCAGCAGAAATGAGAGTGCAGAGGACGAACAGGAGCTCTCAG  
 AAGTCTTCATGAAAACATTAACACTACACAGCCCGTTTCAGTCGTTTCAAAAACAGAGAGA  
 CCATTGCCAGTGTTCGTAGCTTGTACTCCAGAAAAAGCTTCATAAGTTTGAGTTGGCCT  
 GTTTGGCCAACCTTTGCCAGAGACTGCTGAGGAGTCCAAGGCTCTAATCCCAAGCTTGG  
 AGGGACGGTTTGAAGATGAGGAGCTGCAGCAGATTCTTGATGATATCCAGACAAAGCGCA  
 GCTTTCAGTATTAATCTCCAAACATCACTGCTGCTCGGAGAAACCACATCCCAGGCATA  
 ACACCACCTTCCCACTGTCTGGGGCTGACTTGCACAGAAATCTGTTGAAGACAGTTGAG  
 AATTCCTTTGGAGAAAACAGCCAGCTTGGCGTGGGGTTAGGTTGCTGTTCAAATAACT  
 CACAGGCCAGGTGACATGGAATCTTGGAGCAGCCTTGTGAGTGGCAGCCAGTGGCTTC  
 CTGAACGTGCCTCTGCGAAGTGTGAGATGAGGGGTACATAACCACACTGTTGACTACCT  
 CATTCTGGTTNTTGGCCTCACATCATCTTTTTTCTTATATTTTCATGTTTTAATTTTCAGG  
 GTGTTTATACTTTTTGAACTAGACAGNAGATAGTAGACTTATAGAGAAAGACAGTTNTA  
 CCTANTACTAAAGGAGAATAAACCGCTGTAGTTGATGCTTTTTTTTTTTTTTAAATGGAA  
 TAGGTCTTACTCTGTCAGCTGGAGGATGCAGTCTCAGTCG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004805 unedited  
 TAGGACGCGGCCGCAATTCTANGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TAAAAATAAAAAATTTTTATTCTTGCCTTATTTCTAGCAAACATAAAACCATCCTGAT  
 TTTAAAAGCCAACACTGTTCTTTCTCCTTTTTCTTGGATCACAAGTTCATACAGAGTCA  
 AGCAAGTGCCCAAAAAAAAAACCCAAAATGAAAACAAGTGTATTCCCTTCAGAAAAAT  
 CAAAGCTAGAATGTTTAGCTATTGAAGTGTTCCTCCAGACTGAGATCAAGTCACTTCA  
 CTGCAGTGGCTCAAGAGTGGATGACTCCCTCCTCCAAAATAAGCACTTATTGCTAATTA  
 GCAGGCCAGAGGCTTAGACTGGATCTCTATAATTGGAGACTTCAAAGTGTTCAGAACTT  
 CAAGCCTGGCCTATGAAGTAAAAAAAAAAAAAAAAATTTTTTAAAGTAGAATTGCAATTTTA  
 TTTTTCTCAGAGAAGTTTTTCTCAGTCCTTAACAACCTCCGCTCCTTATATGGGCTTTG  
 GTGGAGGTGATGGGGCAGCACCTGCAGGTCTACGTTGGGGTGGAGGTGTTTCGGTCCTTGC  
 CTGCTTCATGAGCTCAATTCCTCACCCTGTGCTGTGAATGGCACAACCTCACATGGTAAT  
 GTAGCTTCACATCCAGCCTGGGAAGTACACAGGCGTCAAGGATGCTCATTTCAGAAACAT  
 CGCTGACTGCTGCGGCCCTACGTTTCAAATGATGAATTTNCTAGTAGCCTTGTGCTTGG  
 GCACACANCAACCACAGTTCATACAGCAAATGGGCTGCAGTGAACAGGCACACCTGGNTT  
 GTGACTCTTTTGGCGACCATGCTTCTTTGTATCTTGAAGTGCAGGCCCAAGAAGATG  
 AGTAAAATCTTATTTGAGGTGACTAATGAATCCTTCAGACACTTACCCA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004805

**Insert Size:**

2500 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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_004805.2</a> , <a href="#">NP_004796.1</a>
<b>RefSeq Size:</b>	1909 bp
<b>RefSeq ORF:</b>	429 bp
<b>Locus ID:</b>	5433
<b>UniProt ID:</b>	<a href="#">O15514</a>
<b>Cytogenetics:</b>	2q14.3
<b>Domains:</b>	RNA_pol_Rpb4, RPOL4c
<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 fourth largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. In yeast, this polymerase subunit is associated with the polymerase under suboptimal growth conditions and may have a stress protective role. A sequence for a ribosomal pseudogene is contained within the 3' untranslated region of the transcript from this gene. [provided by RefSeq, Jul 2008]