

## Product datasheet for **SC116236**

### RNA Polymerase II p14.5 (POLR2I) (NM\_006233) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RNA Polymerase II p14.5 (POLR2I) (NM_006233) Human Untagged Clone
Tag:	Tag Free
Symbol:	RNA Polymerase II p14.5
Synonyms:	hRPB14.5; RPB9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006233, the custom clone sequence may differ by one or more nucleotides

```
ATGGAGCCCACGGGACTTACGAGCCGGGCTTCGTGGGTATTCGCTTCTGCCAGGAATGTAACAACATGC
TGTACCCAAGGAAGACAAGGAGAACCGCATTCTGCTCTACGCGTGCCGGAAGTGTATTACCAGCAGGA
GGCCGACAACAGCTGCATCTATGTCAACAAGATCACGCACGAAGTGACGAACTGACCCAGATTATCGCC
GACGTGTCCCAGGACCCACGTTGCCGCGGACCGAGGACCACCCGTGCCAAAAGTGCGGCCACAAGGAGG
CTGTGTTCTTCCAGTCACACAGTGC GCGGGCCGAGGACCCATGCGCCTTACTACGTGTGCACAGCCCC
ACACTGCGGCCACCGCTGGACCGAGTGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006233 unedited  
 GGGGTCAAAATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACCAGGAGGGCT  
 GCGCGGGCTGCGCGTCCGCATGGAGCCCACGGGACTTACGAGCCGGGCTTCGTGGGTAT  
 TCGCTTCTGCCAGGAATGTGCCGAACTGTGATTACCAGCAGGAGGCCGACAACAGCTGC  
 ATCTATGTCAACAAGATCACGCACGAAGTGGACGAACTGACCCAGATTATCGCCGACGTG  
 TCCCAGGACCCACGTTGCCGCGACCGAGGACCACCCGTGCCAAAAGTGCGGCCACAAG  
 GAGGCTGTGTTCTTCCAGTCACACAGTGCAGCGGGCCGAGGACGCCATGCGCCTTTACTAC  
 GTGTGCACAGCCCCACACTGCGGCCACCGCTGGACCGAGTGACCTCCTCTCTCCCCGAG  
 TGTAAATAAACACCAAGATTCCACANNCAAAAAAACACCCCCCACTCAAAAAAAAAAACA  
 CTAACAAACCCCTCGACTCTAGATTGCGCCGCGGCCATAGCTGTTTCCTGAACAGATCC  
 CGGTGGGCATCCCTGTGACCCCTCCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCC  
 AGGGCCCACCATCCCTTGCCCTAATAAAATTAATTTGCATCATTTTGTCTGACTAGGTGC  
 CCTTCTATAATATTATGGGGTGGAGGGGGGGGAATGGTATTTATGCCCTGATTCTCA  
 GAACCAATACCATGACACCCTACCGCAACACATACCCCATCAGAAAAATAGCACTTT  
 ACGAACCACTAAACCACAACGATACTCAATAAAATATATTCCATATGAATCCACAA  
 CTCTATCCTCACACCGAGCCAACACACCACCCCACTCAACCACCCACACCCACAATC  
 CCTACTNAACAACTCAAAANAACAACCCCAANAATC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006233 unedited  
 ACTTGTCCGCGGCACGCAATCTAGATCGATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTTGGGAAACCGGGGTTTTTACTCCGGGGAAAAAAGAAG  
 GCACTTTCGTTCAACGGGGGCCCAATGTGGGGCTTGGCCACCTTTAAAAGGCATGGG  
 GTCCTTTGCCCGCCCTTTGTGAATGGAAAAACAACCCCTTTTGGCCCACTTTTTG  
 CAGGGTGGGCTCGGTCCCCGGGAACCTGGGGGCTGGGACACCTTGGGATAATTTGG  
 GGCAATTCCTCCACTTTGGGCGGAACTTTTTGACATAAATGCAACTGTTGTCCGGCCCC  
 TTCTGGTAATCACAATCCCGGCCATTTCTGGCAAAAACGAATCCCCCAAAACCCCGCT  
 CTTAAATCCCCTCCGGCTCCCTTGGGAACCCCAATCCCCCATACCTTCTGGTGCCCAAT  
 TTCCCGGCGCCCTATAAGAGACCCATTAACAAAATCTGAACGGTACCTTAAAAACCT  
 TCCTTTTTTAAACCTCCACCCGTACCCCTTACCCTTATTTTTGTTCCCGCCCGGGT  
 TTTACCAACCTTTGAAAACATCCCTTTTTTTTCGGCCCCAAAACAACCTCCCCACTCTCA  
 AATGGGGCGCAATTTCAAAACCTCGAGTCAAACCCCTTTCCCTCTCTTCGTTCT  
 TCTCAAACCCACTACCCCGCAACACCCACCCCCATACCATAAACACCTTTAATT  
 AAAAAATCTCCCATATCTCCCTCCATATCTTTATCCACACCGTTTCATCCTTCTTTT  
 ATATTTTTGAGTGGTATTTCCCTACACCACCTCTTATTCCCTCTCACCTTTAT  
 CTCTCTCCCCACCCATCTTCCACCCCACTACTCCCTTCATGCCTCTCTCTCCAC  
 CTCTCCTG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006233

**Insert Size:**

450 bp

**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).

**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_006233.4</a> , <a href="#">NP_006224.1</a>
<b>RefSeq Size:</b>	885 bp
<b>RefSeq ORF:</b>	378 bp
<b>Locus ID:</b>	5438
<b>UniProt ID:</b>	<a href="#">P36954</a>
<b>Cytogenetics:</b>	19q13.12
<b>Domains:</b>	TFIIS, RNA_POL_M_15KD
<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 a subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This subunit, in combination with two other polymerase subunits, forms the DNA binding domain of the polymerase, a groove in which the DNA template is transcribed into RNA. The product of this gene has two zinc finger motifs with conserved cysteines and the subunit does possess zinc binding activity. [provided by RefSeq, Jul 2008]