

## Product datasheet for **SC326333**

### **POLR1B (NM\_001137604) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** POLR1B (NM\_001137604) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** POLR1B  
**Synonyms:** A135; RPA2; RPA135; Rpo1-2; TCS4  
**Vector:** pCMV6 series  
**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001137604, the custom clone sequence may differ by one or more nucleotides

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ATGGATCCTGGCAGCCGGTGGCGGAACCTGCCAGCGGGCTAGCCTAAAGCACTTGACT
GACCCCTTTATGGAATCCCGCGGGAACAGCAAAGGCAGCGTTGCAGGAGCTGACGCGG
GCGCACGTGGAGTCCTTCAACTACGCTGTGCACGAGGGTCTCGGCCTCGCGGTGCAGGCT
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GTTCCCATCATGGTGAATCCAAGCTTTGCAACTTACGTAACCTTCCCCACAAGCCCTC
ATTGAGCACCATGAGGAGCAGAGGAAATGGGGGGCTATTTATAATCAATGGCATTGAA
AAAGTCATCCGAATGTTGATTATGCCTCGGAGAAATTTCCCATGCAATGATAAGACCA
AAATGGAAAACAGAGGGCCTGGTTATACTCAGTATGGAGTTTCAATGCACTGTGTGAGG
GAAGAACATTCGCTGTCAATATGAACCTCCACTACTTGGAAAATGGCACTGTTATGTTG
AACTTTATTTACCGAAAAGAAGTGTCTTTCTTCTTTGGGATTTGCACTTAAGGCACTT
GTCAGCTTTTCTGATTATCAGATCTTTCAGGAGCTCATCAAAGGAAAAGAGGATGATTCT
TTCCTTAGGAAGTCTGTTTCTCAGATGTTAAGGATTGTAATGGAAGAGGGTTGTTGACA
CAAAAACAGGTCCTTAACTACCTAGGTGAATGCTTCAGAGTAAACTCAATGTTCCCTGAC
TGGTACCCAAATGAGCAAGCTGCGGAGTTCCTGTTTAAACAGTGCATCTGTATCCACTTG
AAATCCAATACTGAAAAGTTTTATATGCTTTGTCTCATGACGCGAAAGCTCTTTGCTTTA
GCCAAAGGAGAGTGCATGGAGGACAATCCTGATAGTTTGGTGAACCAGGAAGTCCTCACA
CCGGGTACAGCTCTTCTTATGTTCTGAAGGAAAAGTGGAAAGTTGGTTAGTGTCTATT
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GGGAATCTGCGTCTAAAACAGGCTTGGCCTCCTACAAGATTCTGGACTTTGTGTTGTG
GCTGACAAGCTGAAGTTCATACGCTACCTCTCCATTTCCGCTGCGTGCACAGAGGGGCT
GATTTTGCAGATGAGGACCACACAGTACGCAGGCTGCTGCCAGAGTCTGGGGCTTC
CTTTGTCCCGTGCATACCCAGACGGGGAGCCCTGTGGCCTGATGAACCCTAACTGCC
GTATGTGAGGTTGTCACACAGTTTGTGTATACGGCATCTATTCCAGCTTTACTGTGCAAC
TTGGGGGTCACTCCCATTTGATGGAGCTCCCAACGATCATACAGTGAGTGCTACCCTGTC
CTGCTGGACGGTGTGATGGTTGGCTGGGTGGATAAGGATCTTGCTCCAGGCATCGCAGAT
TCTCTTGTGATTTTAAAGGTGTTGAGAGAGAAAAGAAATCCTCCCTGGATGGAAGTGGTC
CTTATACCCATGACAGGAAAACCAAGTCTGTACCCAGGATTGTTCTTTTACCCTCTCT
TGTAGACTGGTACGGCTGTGCAGAACTTAGCATTGGGCAAAGAAGAGCTAATTGGAAGT

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ATGGAACAGATCTTCATGAATGTCGCTATCTTTGAGGATGAAGTTTTTGCTGGAGTTACC
ACACACCAGGAACTCTTTCCACACAGCCTGCTGAGTGTGATTGCCAACTTCATCCCTTC
TCTGATCACAAACCAGAGTCCACGGAACATGTACCAATGCCAGATGGGTAAGCAAATATG
GGCTTTCCACTTCTCACTTATCAAGACCGATCGGATAACAAACTGTATCGTCTTCAGACT
CCTCAGAGTCCCTTGGTGAGACCCTCCATGTATGATTATTATGACATGGATAACTATCCA
ATTGGGACCAATGCCATCGTTGCTGTGATTCTTACACTGGCTATGATATGGAAGATGCC
ATGATTGTGAATAAGGCCTCTTGGGAACGAGGCTTTGCCATGGAAGTGTCTACAAGTCT
GAGTTTCATAGACCTCTCTGAAAAAATTAACAAGGAGATAGTAGCCTGGTGTGGCATC
AAACCTGGTGACCCACGCTTCTGCAGAAGTTAGATGACGATGGATTGCCGTTTATAGGA
GCAAACTGCAGTACGGAGATCCGTATTACAGCTACCTCAACCTCAACCCGGGAAAAGT
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AATGACACTGGGAGTGGAAAATCAAGTGTGTTTGCATCACTATGAGAGTGCCTCGGAAC
CCAACATCGGAGATAAATTTGCCAGTCGCCATGGGCAGAAGGGCATTAAAGCAGATTG
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CCCCATGGTTTTCCATCCCGCATGACCATTGGGATGTTAATTGAGAGTATGGCCGGGAAG
TCTGCAGCTTTGCATGGTCTCTGCCATGATGCTACACCCTTCATCTTCTCAGAGGAGAAC
TCGGCCTTAGAATACTTTGGTGAGATGTTAAAGGCTGCTGGCTACAATTTCTATGGCACC
GAGAGTTATATAGTGGCATCAGTGGGCTAGAAGTGAAGCAGACATCTTCATAGGAGTG
GTTTATTATCAGCGCTTACGCCATATGGTCTCAGACAAATTTCAAGTAAGGACAACCTGGA
GCCCGAGACAGAGTCACCAACCAGCCTATTGGGGGAAGAAATGTCCAGGGTGGAAATCCGT
TTTGGGGAGATGGAACGGGATGCGCTTTAGCTCATGGTACATCTTTCTCCTTCATGAC
CGCCTCTTCAACTGCTCAGATCGGTCGGTAGCCCATGTGTGTGAAGTGTGGCAGTTTA
CTCTCTCACTGTTGGAGAAGCCACCCCTTCTGGTCTGCCATGCGCAACAGAAAATAC
AACTGTACTCTGTGTAGTCGACAGTACACTATCGATACTGTTTCTGTGCCTTATGTTTTT
CGGTATTTGTAGCTGAACTGGCAGCTATGAACATCAAAGTGAAGTGGATGTTGTT

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- Restriction Sites:** Please inquire
- ACCN:** NM\_001137604
- 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).
- 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\\_001137604.1](#), [NP\\_001131076.1](#)
- RefSeq Size:** 5259 bp

RefSeq ORF:	3240 bp
Locus ID:	84172
UniProt ID:	<a href="#">Q9H9Y6</a>
Cytogenetics:	2q14.1
Protein Families:	Transcription Factors
Protein Pathways:	Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase
Gene Summary:	<p>Eukaryotic RNA polymerase I (pol I) is responsible for the transcription of ribosomal RNA (rRNA) genes and production of rRNA, the primary component of ribosomes. Pol I is a multisubunit enzyme composed of 6 to 14 polypeptides, depending on the species. Most of the mass of the pol I complex derives from the 2 largest subunits, Rpa1 and Rpa2 in yeast. POLR1B is homologous to Rpa2 (Seither and Grummt, 1996 [PubMed 8921381]).[supplied by OMIM, Mar 2008]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1, resulting in a shorter isoform (2), compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>