

Product datasheet for **SC337916**

POLR1B (NM_001282772) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR1B (NM_001282772) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR1B
Synonyms:	A135; RPA2; RPA135; Rpo1-2; TCS4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001282772, the custom clone sequence may differ by one or more nucleotides

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ATGAGAGCCAAAGAGGCTGCGGAAACGGGACTGCGGCCACTACTCCGGCGTGTACCGAGAGACTGGCGT
CCGGCGTGTACCGAGAGACTGGCGTCCGGTGTGCAGGTGGCCACATGGATCCTGGCAGCCGGTGGCGGAA
CCTGCCAGCGGGCCTAGCCTAAAGCACTTGACTGACCCCTTTATGGAATCCCGCGGGAACAGCAAAAG
GCAGCGTTGCAGGAGCTGACGCGGGCGCACGTGGAGTCTTCAACTACGCTGTGCACGAGGGTCTCGGCC
TCGCGGTGCAGGCTATACCTCCCTTTGAATTTGCTTTCAAAGATGAGCGTATCTCTTTACTATTCTGGA
TGCTGTTATCAGTCCACCTACAGTTCAAAAGGGACCATCTGCAAAGAGGCCAATGTTTATCCAGCAGAA
TGCCGGGGCCGAAGGAGTACCTACCGTGGGAAGTTGACAGCTGATATCAACTGGGCAGTGAATGGAATCT
CAAAGGAATCATTAAAGCAGTTTCTGGCTATGTTCCCATCATGGTAAAATCCAAGCTTTGCAACTTACG
TAACCTTCCCCACAAGCCCTCATTGAGCACCATGAGGAGGCAGAGGAAAATGGGGGCTATTTTATAATC
AATGGCATTGAAAAAGTCATCCGAATGTTGATTATGCCTCGGAGAAAATTTCCCATGCAATGATAAGAC
CAAAATGGAAAACAGAGGGCCTGGTTATACTCAGTATGGAGTTTCAATGCAGTGTGTGAGGGAAGAACA
TTCCGCTGTCAATATGAACCTCCACTACTTGGAAAATGGCACTGTTATGTTGAACTTTATTTACCGAAAA
GAACTGTTCTTTCTTCTTTGGGATTTGCACTTAAGGCACTTGTGAGCTTTTCTGATTATCAGATCTTTC
AGGAGCTCATCAAAGGAAAAGAGGATGATTCTTTCCTTAGGAAGTCTGTTTCTCAGATGTTAAGGATTGT
AATGGAAGAGGGTTGTTTCGACACAAAAACAGGTCCTTAAGTGAATGCTTTCAGAGTAAAACCT
AATGTTTCTGACTGGTACCCAAAATGAGCAAGCTGCGGAGTTCCTGTTTAAACAGTGCATCTGTATCCACT
TGAAATCCAATACTGAAAAGTTTTATATGCTTTGTCTCATGACGCGAAAAGCTCTTTGCTTTAGCCAAAGG
AGAGTGCATGGAGGACAATCCTGATAGTTTGGTGAACCAGGAAGTCTCACACCGGGTCACTCTTCCTT
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AGACCAGTGTTCATGAACACTGACAATTTGATGAGGATTTTACAATGGGCATAGACCTTACAAAACC
ATTTGAATACCTTTTGTACTGGAATCTGCGTTCTAAAACAGGCTTTGGCCTCTACAAGATTCTGGA
CTTTGTGTGTGGCTGACAAGCTGAACTTCATACGCTACCTCTCCCATTTCCGCTGCGTGCACAGAGGGG
CTGATTTTCCAAGATGAGGACCACCACAGTACGAGGCTGCTGCCAGAGTCTGGGGCTTCTTTGTCC
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CGTGCATACCCAGACGGGGAGCCCTGTGGCCTGATGAACCACCTAACTGCCGTATGTGAGGTTGTCA
 CAGTTTGTGTATACGGCATCTATTCCAGCTTTACTGTGCAACTTGGGGTCACTCCCATTGATGGAGCTC
 CCCACCGATCATAACAGTGTGCTACCCCTGCTGCTGGACGGTGTATGGTTGGCTGGGTGATAAGGA
 TCTTGCTCCAGGCATCGCAGATTCTCTTCGTCATTTAAGGTGTTGAGAGAGAAAAGAAATTCCTCCCTGG
 ATGGAAGTGGTCTTATACCCATGACAGGAAAACCAAGTCTGTACCCAGGATTGTCTTTTTACCACTC
 CTTGTAGACTGGTACGGCCTGTGCAGAACTTAGCATTGGGCAAAGAAGAGCTAATTGGAACATGGAACA
 GATCTTTCATGAATGTCGCTATCTTTGAGGATGAAGTTTTGCTGGAGTTACCACACACCAGGAACCTTT
 CCACACAGCCTGCTGAGTGTGATTGCCAACTTCATCCCTTTCTCTGATCACAACCAGAGTCCACGGAACA
 TGTACCAATGCCAGATGGTAAGCAAATATGGGCTTTCCACTTCTCACTTATCAAGACCGATCGGATAA
 CAAACTGTATCGTCTTCAGACTCCTCAGAGTCCCTTGGTGAGACCCTCCATGTATGATTATTATGACATG
 GATAACTATCCAATTGGGACCAATGCCATCGTTGCTGTGATTTCTTACACTGGCTATGATATGGAAGATG
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 GTTCTGCAGAAGTTAGATGACGATGGATTGCCGTTTATAGGAGCAAACCTGCAGTACGGAGATCCGTATT
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 GGATAACATCAAAGTGTGCAATAATGACACTGGGAGTGGAAAATTCAAAGTGTGTTGCATCACTATGAGA
 GTGCCCTCGGAACCAACTATCGGAGATAAATTTGCCAGTCGCCATGGGCAGAAGGCATTTTAAGCAGAT
 TGTGGCCGGCTGAGGACATGCCTTTTACTGAGAGTGGGATGGTCCAGACATTCTGTTCAATCCCATGG
 TTTTCCATCCCGCATGACCATTGGGATGTTAATTGAGAGTATGGCCGGGAAGTCTGCAGCTTTGCATGGT
 CTCTGCCATGATGCTACACCTTCATCTTCTCAGAGGAGAAGTCCGGCCTTAGAATACTTTGGTGAGATGT
 TAAAGGCTGTGGCTACAATTTCTATGGCACCGAGAGGTTATATAGTGGCATCAGTGGGCTAGAAGTGG
 AGCAGACATCTTCATAGGAGTGGTTTATATCAGCGCTTACGCCATATGGTCTCAGACAAATTTCAAGT
 AGGACAAGTGGAGCCCGAGACAGAGTACCAACCAGCCTATTGGGGGAAGAAATGTCAGGTTGGAATCC
 GTTTTGGGAGATGGAACGGGATGCGCTTTAGCTCATGGTACATCTTTTCTCCTTCATGACCGCCTCTT
 CAACTGCTCAGATCGGTGGTAGCCATGTGTGTGAAGTGTGGCAGTTTACTCTCCTCACTGTTGGAG
 AAGCCACCCCTTCTGGTCTGCCATGCGCAACAGAAAATACAACTGTACTCTGTGTAGTCGAGTGACA
 CTATCGATACTGTTTCTGTGCCTTATGTTTTTCGGTATTTGTAGCTGAACTGGCAGCTATGAACATCAA
 AGTGAAACTGGATGTTGTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_001282772
- 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).
- 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_001282772.1](#), [NP_001269701.1](#)
- RefSeq Size:** 5077 bp

RefSeq ORF: 3522 bp

Locus ID: 84172

UniProt ID: [Q9H9Y6](#)

Cytogenetics: 2q14.1

Protein Families: Transcription Factors

Protein Pathways: Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase

Gene Summary: 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]

Transcript Variant: This variant (3) contains alternate 5' exon structure and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (3) has a distinct and longer N-terminus, 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.