

Product datasheet for SC113295

POLR1B (NM_019014) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR1B (NM_019014) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR1B
Synonyms:	A135; RPA2; RPA135; Rpo1-2; TCS4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113295 sequence for NM_019014 edited (data generated by NextGen Sequencing)

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ATGGATCCTGGCAGCCGGTGGCGGAACCTGCCAGCGGGCTAGCCTAAGCACTTGACT
GACCCCTCTTATGGAATCCCGCGGGAACAGCAAAGGCAGCGTTGCAGGAGCTGACGCGG
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CATACCCAGACGGGGAGCCCTGTGTCCTGATGAACCACCTAACTGCCGTATGTGAGGTT
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 CCCATTGATGGAGCTCCCCACCGATCATACAGTGAGTGTACCCTGTCCTGCTGGACGGT
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 GCTGAAGTGGCAGCTATGAACATCAAAGTGAAGTGGATGTTGTTAA

Clone variation with respect to NM_019014.4

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_019014 unedited
 GGCTTCGATTTTGTATACGACTCTATAGGGCGCCGCGATTCCGCACCAGGGCCTCCG
 GTGTGCAGGTGGCCACATGGATCCTGGCAGCCGGTGGCGGAACCTGCCACGGGCTAG
 CCTAAAGCACTTGACTGACCCCTTATGGAATCCCGCGGAACAGCAAAAGGCAGCGTT
 GCAGGAGCTGACGCGGGCGCACGTGGAGTCCCTCAACTACGCTGTGCACGAGGGTCTCGG
 CCTCGCGGTGCAGGCTATACCTCCCTTTGAATTTGCTTTCAAAGATGAGCGTATCTCTTT
 TACTATTCTGGATGCTGTATCAGTCCACCTACAGTTCAAAAAGGGACCATCTGCAAAGA
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 CTATGTTCCCATCATGGTGAATCCAAGCTTTGCAACTTACGTAACCTTCCCCACAAGC
 CCTCATGAGCACCATGAGGAGGCAGAGGAAATGGGGGGCTATTTTATAATCAATGGCAT
 TGA AAAAGTCATCCGAATGTTGATTATGCCTCGGAGAAAATTTCCATTGCAATGATAAG
 ACCAAAATGGA AAAACCAGAGGGCCTGGTTATACTCAGTATGGAGTTTCAATGCACTGTGT
 GAGGGAAGACATTCGCTGTCAATATGAACCTCCACTACTTGAANATGGCACTGGTTAT
 GTTGAAC TTTATTTANCCGANAGAACTGGTCTTTCTTTCTTTGGGATTTGCACTTAAGG
 CACTTGTGAGCTNTTCTGATATCAGATCTTTCAGGAGCTCATCAAGGAAAAGAGGATGA
 TTCTTTCTTAGAACTCTGTTCTC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_019014 unedited GACGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCATCATCAAAAAACATC TTATAATTGCAGAAGTATATACAAGATGATCTATTATCAACAGTTTATAATGGCCAAAGA TAAGTCACCAGAAATTTGCAGAAAAAAGTTATAATGGCCAAAGAATGGAACAACTTAA TACACAGGGGATGGTAAATCCATACAATAAAATACTGTACACAAGAAAGAAAAACATAAGT GGCACTCTACACACTGCTATGAAAGCAGATCAATATAAAAGCAGAAAAAGCCAAAGTATG GAAGTGTAGACTAAATATAAAATACTCACCGGAGGCCAGGCACAGTGGCTCACACCCGTA ATCCTAGCACTTTTCGGAGGCCGAGGTGGTGGATCACTTGAGGTCAGGGTCTTCAAGACA GGGTCTTCTATATTACCCAGGCTGTCCTTGAAGTCTGCACTCAATGATCCTCCCACC TCAGCCTCTCAAATAGCAACGACTATAGATGCACAGCACCATGCCTGGCCTCCAAAATGG ATGAATCTTATTTCACTATGCTAAGTAAAATAAGCCAGTCACAGGACAAAATTATGCATGA TCCCACTATATGAGATATCTGTAATAGTCAAACACTACATAAACAGGGTAACAAGGGTGGT TGCTAAGGCCAGGAAATGGACAGTTGTCCACACGTATTAAGCTCTAGTTTGCCACAA CAAGCAGGTCTAAACATCTGTTGCCACACTGGTTCCTGCAATTAACCCCTTATATCG CGCCTTTAAAAATCCGTAAGGGTACGCTTCTTTTTTAACTCGCCCTTACCCCAAT AACTCCATAAATCCTACAGCCCTTATTCATACAAAAATCGCGCCGCCCACTCTGCG GCCATCAAAGGTCTGTTATCTCTCTCTTCCGCGGTGATGGTATCAAAGCGCCCGCCCT TTTCATACCCCCCTATGTCTCTCTCCCTTTATCAACTTCTATCTTCTCCCCCG
Restriction Sites:	NotI-NotI
ACCN:	NM_019014
Insert Size:	5000 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).
Reconstitution Method:	<ol style="list-style-type: none"> 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_019014.3 , NP_061887.2
RefSeq Size:	5968 bp
RefSeq ORF:	3408 bp
Locus ID:	84172
UniProt ID:	Q9H9Y6
Cytogenetics:	2q14.1
Domains:	RNA_pol_Rpb2_3, RNA_pol_Rpb2_5

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 (1) encodes 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.