

Product datasheet for **SC108711**

POLR1D (NM_015972) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR1D (NM_015972) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR1D
Synonyms:	AC19; POLR1C; RPA9; RPA16; RPAC2; RPC16; RPO1-3; TCS2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_015972, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGAGGATCAGGAGCTGGAGAGAAAAATATCTGGATTGAAGACCTCAATGGCTGAAGGCGAGAGGA  
AGACAGCCCTGGAAATGGTCCAGGCAGCTGGAACAGATAGACACTGTGTGACATTTGATTGCACGAGGA  
AGACCATACCCTAGGAAATTCTCTACGTTACATGATCATGAAGAACCCGGAAGTGGAAATTTGTGGTTAC  
ACTACGACCCATCCTTCAGAGAGCAAAATTAATTTACGCATTTCAGACTCGAGGTACCCTCCAGCTGTTG  
AGCCATTCAGAGAGGCCTGAATGAGCTCATGAATGTCTGCCAACATGTGCTTGACAAGTTTGAGGCCAG  
CATAAAGGACTATAAGGATCAAAAAGCAAGCAGAAATGAATCCACATTCTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_015972 unedited GTCAGATTTGTATACGACTTCTATAGGCGGCCGCGCAATTCGCACGAGGTTCCGTCGGTC GGTCTTGTCTTCTGCTTCGCCTCCGCGCTCGCGCTATGGGACAGAGCCCCCGATCCGC CAGCACCACCTGAGGATCCAGAAACCGCCCCAGCGATGGAAGAGGATCAGGAGCTGGAGA GGAAAGCAATAGAAGAACTGCTTAAGGAGGCAAACGTGGGAAAAGCTAGAGCTGAAACAA TGGGACCCATGGGTTGGATGAAGTGTCTTGTGCTAGCACCAATAAAAGATTTCTAATTA ACACAATTAACACACATTGCCCTCTCATAAAGAGCAAGACCATGAACAAAAAGAGGGCG ATAAGGAACCAAGAGCCAGGCCAGGCCAGAAAGAAGAAAACCAAGAAACACAGAAAGCC ATCCTTACAAGCACAGCTTCCGCGCTCGAGGTTCCGCCAGTTACTCCCCGCCACGAAAGC GGAGCAGCCAGGACAAGTACGAAAAGCGGTCCAACCGCGGTGAGGCTGGAACAGGGCC AGCCAGCCCTGCGGGCTCCGTGCTCCTCGGGGTGCGGTGTGCGGAGAAGGCCTGAGCT GGCAGGGCAAACCTGAGAGTGACTTTGACATTAGGTCCTTTGTTGTTTTAAAGAGGC TGCTGCCACAGGCAAAAAAATGACCTAGCAACTCTTGAGGAAACAAGTCAAAGGGAG ATGTCTTGGAAGTTAAGCTACTTCTGCAGTGTAGTAGACTTACATATTGNTGNTTATC TTGGTTGGAGTGTGTTTAAATAAACTGTCTAGAATTAAGTTTCAGAGATTGGTAAAC CTGGTCCCAATTTTGGTCATTTCTCAGAAAATAAATACCTATAATCCTTATTTTACTTT TGGGGTATTACATTA
Restriction Sites:	NotI-NotI
ACCN:	NM_015972
Insert Size:	2000 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_015972.1 , NP_057056.1
RefSeq Size:	726 bp
RefSeq ORF:	402 bp
Locus ID:	51082
UniProt ID:	P0DPB6
Cytogenetics:	13q12.2
Domains:	RNA_pol_L
Protein Families:	Stem cell - Pluripotency, Transcription Factors

Protein Pathways: Cytosolic DNA-sensing pathway, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase

Gene Summary: The protein encoded by this gene is a component of the RNA polymerase I and RNA polymerase III complexes, which function in the synthesis of ribosomal RNA precursors and small RNAs, respectively. Mutations in this gene are a cause of Treacher Collins syndrome (TCS), a craniofacial development disorder. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2011]
Transcript Variant: This variant (1) represents the shortest transcript but encodes the longest isoform (1).