

Product datasheet for **SC126842**

POLR1D (NM_152705) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR1D (NM_152705) 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:	>OriGene ORF within SC126842 sequence for NM_152705 edited (data generated by NextGen Sequencing) ATGGAAGAGGATCAGAGCTGGAGAGGAAAGCAATAGAAGAAGCTTAAGGAGGCAAAA CGTGGGAAAAGCTAGAGCTGAAACAATGGGACCCATGGGTTGGATGAAGTGCCTCTTGCT AGCACCAATAAAAGATTTCTAATTAACACAATTAACACACATTGCCCTCTCATAAAGAG CAAGACCATGAACAAAAAGAGGGCGATAAGGAACCAAGAGCCAGGCCAGAAAGAA GAAAACCCAAAGAAACACAGAAGCCATCCTTACAAGCACAGCTTCCGCGCTCGAGGTTCC GCCAGTTACTCCCGCCACGAAAGCGGAGCAGCCAGGACAAGTACGAAAAGCGGTCCAAC CGGCGGTGA Clone variation with respect to NM_152705.2 219 g=>c;249 g=>a



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_152705 unedited TTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCCGCGCCTTCCGTC GGTTCGGTCTTGGCTTCTGCTTCGCCTCCGCGCCTCGCGCTATGGGACAGAGCCCCGAT CCGCCAGCACCACCTGAGGATCCAGAAACCGCCCCAGCGATGGAAGAGGATCAGGAGCTG GAGAGGAAAGCAATAGAAGAAGCTTAAAGGAGGCAAAACGTGGGAAAAGTAGAGCTGAA ACAATGGGACCCATGGGTTGGATGAAGTGCCTTTGCTAGCACCAATAAAGATTTCTA ATTAACACAATTAACACACATTGCCCTCTCATAAAGAGCAAGACCATGAACAAAAAGAG GCGGATAAGGAACAGCCAAGAGCCAGGCCAGAAAGAAGAAAACCCAAAGAAACACAGA AGCCATCCTTACAAGCACAGCTTCGCGCTCGAGGTTCCGCCAGTTACTCCCCGCCACGA AAGCGGAGCAGCCAGGACAAGTACGAAAAGCGGCCAACCGCGGTGAGGCTGGAACAG TGCCAGCCAGCCCTGCGGGCCTCCGTGCTCCTTCGGGGTGCCGTGTGCGGAAAAAGCCTG AGCTGGCAGGGCAAACCCCTGAGAGTGACTTTGACATTACGTCCCTTTGTTGTTTTTAA GAGGCTGTGGCCACAGGCCAAAAAATGACCTAACACCTCTTGAAGAAACAAGTGCCA AGGAGGATGTCTGGGCCAGTTAACCTACTCCTGCCGTAATACACTCACAATTGTTGG TTATCTGGTTGGCAGTGGTGTAAAAATAACCAGTCAGAATTAAGGTTTCACAAATGGT ACACCGGTTCCATTTTTGGTCTCTTCAAAAAAAAAAACCTCAAACCCATTTTTACTTTT GGGGGTTCCTTAAACATACA
Restriction Sites:	NotI-NotI
ACCN:	NM_152705
Insert Size:	2050 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_152705.1 , NP_689918.1
RefSeq Size:	1977 bp
RefSeq ORF:	369 bp
Locus ID:	51082
UniProt ID:	P0DPB5
Cytogenetics:	13q12.2
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 (2) differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) has a distinct and shorter C-terminus, compared to isoform 1.