

## Product datasheet for **RC202300**

### **POLR1D (NM\_152705) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** POLR1D (NM\_152705) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** POLR1D  
**Synonyms:** AC19; POLR1C; RPA9; RPA16; RPAC2; RPC16; RPO1-3; TCS2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC202300 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGAGGATCAGGAGCTGGAGAGGAAAGCAATAGAAGAACTGCTTAAGGAGGCAAAACGTGGGAAA  
CTAGAGCTGAAACAATGGGACCCATGGGTTGGATGAAGTGCCTCTTCTAGCACCAATAAAGATTCT  
AATTAACACAATAAAAACACATTGCCCTCTCATAAAGAGCAAGACCATGAACAAAAAGAGGCGGATAAG  
GAACCAGCGAAGAGCCAGGCCAGAAAGAAGAAAACCCGAAGAAACACAGAAGCCATCCTTACAAGCACA  
GCTTCCGCGCTCGAGGTTCCGCCAGTTACTCCCGCCACGAAAGCGGAGCAGCCAGGACAAGTACGAAA  
GCGGTCCAACCGCGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC202300 protein sequence  
**Red=Cloning site Green=Tags(s)**  
MEEDQELERKAIIEELLKEAKRGKTRAETMGPMPGWMKCPLASTNKRFLINTIKNTLPSHKEQDHEQKEGDK  
EPAKSQLKEENPKHRSHYPYKHSFRARGASYSPPRKRSSQDKYEKRSNRR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6303\\_d03.zip](https://cdn.origene.com/chromatograms/mk6303_d03.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**



**ACCN:** NM\_152705

**ORF Size:** 366 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_152705.3](#)

**RefSeq Size:** 2043 bp

**RefSeq ORF:** 369 bp

**Locus ID:** 51082

**UniProt ID:** [P0DPB5](#)

**Cytogenetics:** 13q12.2

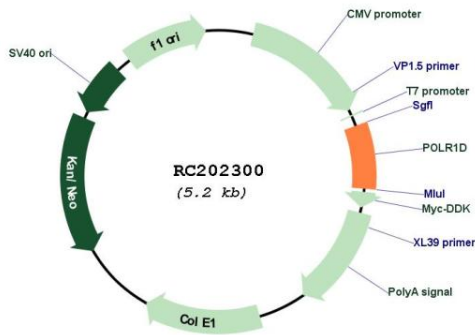
**Protein Families:** Stem cell - Pluripotency, Transcription Factors

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

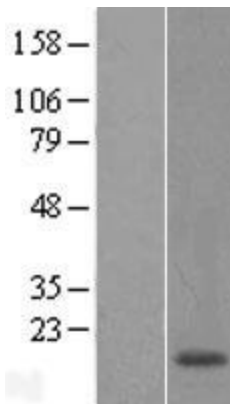
**MW:** 14.3 kDa

**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]

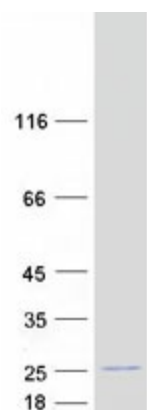
**Product images:**



Circular map for RC202300



Western blot validation of overexpression lysate (Cat# [LY407348]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202300 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified POLR1D protein (Cat# [TP302300]). The protein was produced from HEK293T cells transfected with POLR1D cDNA clone (Cat# RC202300) using MegaTran 2.0 (Cat# [TT210002]).