

Product datasheet for **RG202300**

POLR1D (NM_152705) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: POLR1D (NM_152705) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: POLR1D
Synonyms: AC19; POLR1C; RPA9; RPA16; RPAC2; RPC16; RPO1-3; TCS2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202300 representing NM_152705
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAGAGGATCAGGAGCTGGAGAGGAAAGCAATAGAAGAACTGCTTAAGGAGGCAAACGTGGGAAAA
 CTAGAGCTGAAACAATGGGACCCATGGGTTGGATGAAGTGTCTCTTCTAGCACCAATAAAGATTTCT
 AATTAACACAATTAACACATTGCCCTCTCATAAAGAGCAAGACCATGAACAAAAAGAGGGCGATAAG
 GAACCAGCGAAGAGCCAGGCCAGAAAGAAGAAAACCCGAAGAAACACAGAAGCCATCCTTACAAGCACA
 GCTTCCGCGCTCGAGGTTCCGCCAGTACTCCCGCCACGAAAGCGGAGCAGCCAGGACAAGTACGAAAA
 GCGGTCCAACCGCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202300 representing NM_152705
 Red=Cloning site Green=Tags(s)

MEEDQELERKAIIEELLKEAKRGKTRAETMGPMGWMKCPLASTNKRFLINTIKNTLPSHKEQDHEQKEGDK
 EPAKSQAQKEENPKHRSHPYKHSFRARGASASYSPPRKRSSQDKYEKRSNRR

TRTRPLE - GFP Tag - V

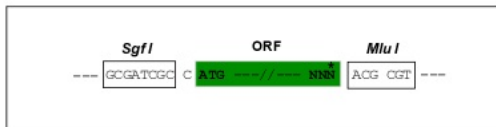
Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:



```

                                     Kozac
                                     Consensus
                                     SgfI
                                     AscI
EcoRI      BamHI KpnI      RBS      CTC GAG ATG GAG AGC GAC
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII    NheI  RsrII    MluI      NotI      XhoI      GFP Tag
CAAGCTTAAGTACTAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC GAG ATG GAG AGC GAC
                                     T  R  T  R  P  L  E  M  E  S  D  -  -  -
                                     PmeI  FseI
- - - GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
- - - E  E  R  V  Stop
    
```

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:

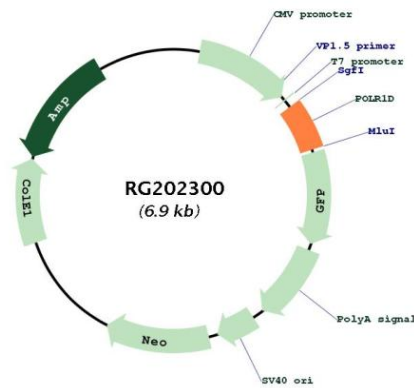
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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: 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]

Product images:



Circular map for RG202300