

## Product datasheet for **RG202505**

### **POLR3D (NM\_001722) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** POLR3D (NM\_001722) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** POLR3D  
**Synonyms:** BN51T; C53; RPC4; RPC53; TSBN51  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202505 representing NM\_001722  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGGAAGGAAACGCCCGCGGAGCCAGCACGCCGGGAGGGCCCCGACCTCTCCTGACTGGGGCCC  
 GGGGGCTCATCGGGCGCGCGCCGCGCCTCCCCTACCCCCGGCCGCTTCCCTCCATCCGTTCCAGGGA  
 CCTCACCTCGGGGAGTCAAGAAGAAAACCTTACCCCCAAATATCATCAGTCGGAAGATCAAGGAAGAG  
 CCCAAGGAAGAAGTAACGTCAAGAAGGAGAAGCGTCAAAGGGACAGAGACCGACAACGAGAGGGGCATG  
 GACGAGGGCGAGGCCGTCCAGAAGTGATCCAGTCTCACTCCATCTTTGAGCAGGGCCAGCCGAAATGAT  
 GAAGAAAAAAGGGAAGTGGGATAAGACAGTGGATGTGTCAGACATGGGACCTTCTCATATCATCAACATC  
 AAAAAAGAGAAGAGAGACAGACGAAGAACTAAACAGATCTTGCGTATGCTGGAGAAGGACGATTTCC  
 TCGATGACCCCGCCTGAGGAACGACACTCGAAATATGCCTGTGCAGCTGCCGCTGGCTCACTCAGGATG  
 GCTTTTTAAGGAAGAAAATGACGAACAGATGTTAAACCTTGGCTGGCTGGCCCCAAGGAAGAGGACATG  
 GAGGTGGACATACCTGCTGTGAAAGTAAAAGAGGAGCCACGAGATGAGGAGGAAGAGGCCAAGATGAAGG  
 CTCTCCCAAAGCAGCCAGGAAGACTCCAGGCCCTCCGAAGGATGTATCTGTGGCAGAGCTGCTGAGGGA  
 GCTGAGCCTCACCAAGGAAGAGGAACTGCTGTTTCTGCAGCTGCCAGACACCTCCCTGGCCAGCCACCC  
 ACCCAGGACATCAAGCCTATCAAGACAGAGGTGCAGGGCAGGACGGACAGGTGGTCTCATCAAGCAGG  
 AGAAAGACCGAGAAGCCAAATTGGCAGAGAATGCTTGTACCCTGGCTGACCTGACAGAGGGTCAGGTTGG  
 CAAGTACTCATCCGCAAGTCTGGAAGGGTGCAACTCCTCTTGGCAAGGTGACTCTGGACGTGACCATG  
 GAACTGCCTGCTCCTTCTGCAGGAGCTGGTGTCCGTGGCCTTGGAGACAGTAGGACAGGGGAGATGA  
 CAGTCCTGGGACAGTGAAGCACAACTTGATGTTCCCTGATTTTGAATCCCTCTGGATCACAAACA  
 CCGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202505 representing NM\_001722  
 Red=Cloning site Green=Tags(s)

MSEGNAAGEPSTPGGPRPLL TGARGLIGRRPAPPLTPGRLPSIRSRDLTLGGVKKKFTFPNIISRKIKEE  
 PKEEVTVKKEKRERDRDRQREGHGRGRPEVIQSHSIFEQGAEMMKKGNWDKTVDVSDMGPSHIINI  
 KKEKRETDEETKQILRMLKDDFLDDPGLRNDTRNMPVQLPLAHSGLWFKENDEPDVKPWLAGPKEEDM  
 EVDIPAVKVKEEPRDEEEEEAKMKAPPKAARKTPGLPKDVSVAELLRELSLTKEEELLFLQLPDTLPGQPP  
 TQDIKPIKTEVQGEDGQVVLIKQEKDREAKLAENACTLADLTEGQVQKLLIRKSGRVQLLLGKVTLDVMT  
 GTACSFLLQELVSVGLGDSRTGEMTVLGHVKHKLVCSPDFESLLDHKHR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001722

**ORF Size:** 1194 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\\_001722.2](#), [NP\\_001713.2](#)

**RefSeq Size:** 1946 bp

**RefSeq ORF:** 1197 bp

**Locus ID:** 661

**UniProt ID:** [P05423](#)

**Cytogenetics:** 8p21.3

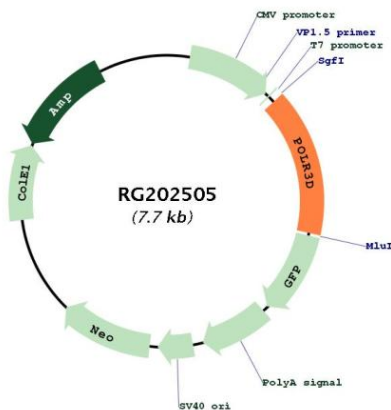
**Domains:** RNA\_pol\_Rpc4

**Protein Families:** Transcription Factors

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

**Gene Summary:** This gene complements a temperature-sensitive mutant isolated from the BHK-21 Syrian hamster cell line. It leads to a block in progression through the G1 phase of the cell cycle at nonpermissive temperatures. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG202505