

Product datasheet for RC202505

POLR3D (NM_001722) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR3D (NM_001722) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POLR3D
Synonyms:	BN51T; C53; RPC4; RPC53; TSBN51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202505 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGAAGGAAACGCCCGCGGAGCCAGCACGCCGGGAGGGCCCCGACCTCTCCTGACTGGGGCCC
GGGGGCTCATCGGGCGCGGCCGCGCCTCCCTCACCCCGGCCGCTTCCCTCCATCCGTTCCAGGGA
CCTCACCTCGGGGAGTCAAGAAGAAAACCTCACCCAAATATCATCAGTCGGAAGATCAAGGAAGAG
CCCAAGGAAGAAGTAACGTCAAGAAGGAGAAGCGTAAAAGGACAGAGACCGACAACGAGAGGGGCATG
GACGAGGGCGAGGCCGTCCAGAAGTGATCCAGTCTCACTCCATCTTTGAGCAGGGCCAGCCGAAATGAT
GAAGAAAAAAGGGAAGTGGGATAAGACAGTGGATGTGTCAGACATGGGACCTTCTCATATCATCAACATC
AAAAAAGAGAAGAGAGACAGACGAAGAACTAAACAGATCTTGCGTATGCTGGAGAAGGACGATTTCC
TCGATGACCCCGCCTGAGGAACGACACTCGAAATATGCCTGTGCAGCTGCCGCTGGCTCACTCAGGATG
GCTTTTTAAGGAAGAAAATGACGAACAGATGTTAAACCTTGGCTGGCTGGCCCCAAGGAAGAGGACATG
GAGGTGGACATACCTGCTGTGAAAGTAAAAGAGGAGCCACGAGATGAGGAGGAAGAGGCCAAGATGAAGG
CTCCTCCCAAAGCAGCCAGGAAGACTCCAGGCCCCCAGGATGTATCTGTGGCAGAGCTGCTGAGGGA
GCTGAGCCTCACCAAGGAAGAGGAAGTCTGTTTCTGCAGCTGCCAGACACCTCCCTGGCCAGCCACCC
ACCCAGGACATCAAGCCTATCAAGACAGAGTGCAGGGCGAGGACGGACAGGTGGTCTCATCAAGCAGG
AGAAAGACCGAGAAGCCAAATTGGCAGAGAATGCTTGTACCCTGGCTGACCTGACAGAGGGTCAGGTTGG
CAAGTACTCATCCGCAAGTCTGGAAGGGTGCAACTCCTCTTGGCAAGGTGACTCTGGACGTGACCATG
GAACTGCCTGCTCCTTCTGCAGGAGCTGGTGTCCGTGGCCTTGGAGACAGTAGGACAGGGGAGATGA
CAGTCTGGGACAGTGAAGCACAACTTGATGTTCCCTGATTTTGAATCCCTCTGGATCACAAACA
CCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC202505 protein sequence
Red=Cloning site Green=Tags(s)

MSEGNAAGEPSTPGGPRPLL TGARGLIGRRPAPPLTPGRLPSIRSRDL TLGGVKKKTFTPNII SRKIKEE
 PKEEVTVKKEKRERDRDRQREGHGRGRGRPEVIQSHSIFEQGAEMMKKGNWDKTVDVSDMGPSHIINI
 KKEKRETDDEETKQILRMLEKDDFLDDPGLRNDTRNMPVQLPLAHSGWL FKEENDEPDVKPWL AGPKEEDM
 EVDIPAVKVKEEPRDEEEEEAKMKAPPKAARKTPGLPKDVSV AELLRELSL TKEEELLFLQLPDTLPGQPP
 TQDIKPIKTEVQGEDGQVVL IKQEKDREAKLAENACTLADL TEGQVGKLL IRKSGRVQLLLGKVTLDVTM
 GTACSF LQELVSVGLGDSRTGEMTVLGHVKHKLVCSPDFESLLDHKHR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6150_h01.zip

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

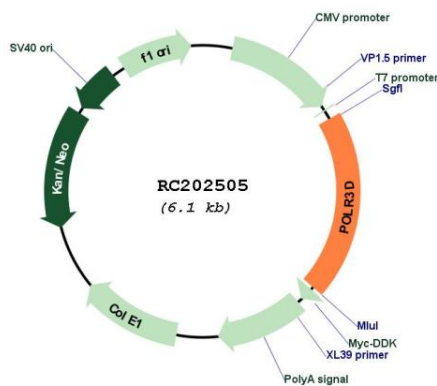
Protein Families: Transcription Factors

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

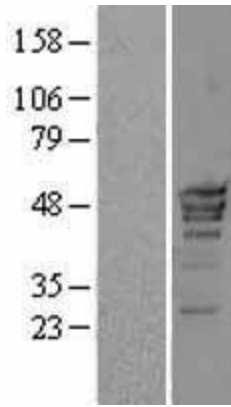
MW: 44.4 kDa

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]

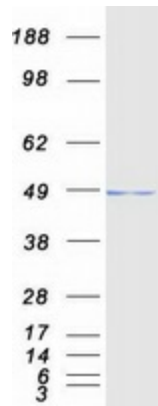
Product images:



Circular map for RC202505



Western blot validation of overexpression lysate (Cat# [LY400649]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202505 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified POLR3D protein (Cat# [TP302505]). The protein was produced from HEK293T cells transfected with POLR3D cDNA clone (Cat# RC202505) using MegaTran 2.0 (Cat# [TT210002]).