

Product datasheet for **MG218454**

Polr3d (NM_001164082) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Polr3d (NM_001164082) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Polr3d
Synonyms:	44kDa; 2810426M17Rik; AI326118; AW489084; BN51T; RPC4; TSBN51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218454 representing NM_001164082 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGAAGGAAACGCGGCGGGGCGAGCCAGCAATCCTGGAGGGCCGCGACCCCTTCTCTCTGGGGGCC
GGGGGCTGATCGGCCGGCGGCCCGACCCCGCTTACGCCGGTCGCTTCCCTCCATCCGCTCCCGGA
CCTCACCTTGGCGGAGTCAAGAAGAAAACCTTACCCCAATATCATCAGTCGGAAGATCAAAGAAGAG
CCAAAAGAAGAAGTGACTATGAAGAAGAAAAGCGTGAACGGGACAGGGACCGCCAGCGTGAGGGTCAG
GACGGGACGTGGCCGCCGGAAGTGATCCAGTCCATTCTATCTTCGAGCAGGGTCCGGCAGAAATGAT
GAAAAAAAAGGGAAGTGGGATAAGACCGTGGACATGTCCGACATGGGACCTTCTCATATCATCAACATC
AAAAAAGAGAAGAGAGAAACAGACGAAGAGACCAAGCAGATCCTGCGCATGCTGGAGAAGGATGACTTCA
TCGATGACCCGGGGCTAAAGAATGACACACGGAACATGCCAGTGCAGCTGCCTCTGGCTCATTAGGGTG
GCTTTTTAAGGAGGAGAGTGAAGAGCCAGAGGCTAAGCCTTTTTTCGGCTGGCCCCAAGGAAGAAGATATG
GAGGTGGACGTGCCTGCCGTCAAAGTAAAAGAGGAGCCACGAGATGAGGAAGAGGAAGCCAAAGGTGAAAG
CCCCTCAAGAGCAGCCCGAAGACTCCTGGCCTCCCAAAGGACGTGTGGTGGCCGAGCTGCTCAGAGA
GCTGAGCCTCATGAAGGATGAGGAGTCTCTGTTCTTTCAGTGCCTGACACCTCCCGGGCAGCCACCC
ACTCAGGACATCAAGCCTGTCAAGACAGAGGTGCAGGGCAGGATGGACAGATGGTATGATCAAAAGCAGG
AAAAAGACCGGAAGCCAGGCTAGCAGAGAATGCTTGTACCTTGGCTGACCTGACAGAGGGTCAAGTGGG
CAAAGTGTCTATCCGTAAGTCAAGGAAGGTGCAACTCCTCCTGGCAAGGTGACTCTAGATGTGACCATG
GGAACGACCTGTTCTTTCTGACGGAAGTGGTGTCTGTGGCCTTGGAGACAGCAGAACAGGGGAGATGA
CAGTCCTGGGACATGTGAAGCACAACTTGATGTTCTCTGATTTTGAATCTCTCTTGGATCACAAACA
CCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218454 representing NM_001164082
 Red=Cloning site Green=Tags(s)

MSEGNAAGEPSNPGGPRPLL SGGRLIGRRPAPPLTPGRLPSIRSRLTLGGVKKKFTTPNIISRKIKEE
 PKEEVTMKKEKRERDRDRQREGHGRGRPEVIQSHSIFEQGAEMMKKGNWDKTVDMSDMGPSHIINI
 KKEKRETDEETKQILRMLKDDFIDDPGLKNDTRNMPVQLPLAHSGLFKEESEPEAKPF SAGPKEEDM
 EVDVPAVKVKEEPRDEEEEEAKVKAPPAARKTPGLPKDVSVAELLRELSLMKDELLFLQLPDTLPGQPP
 TQDIKPKVKEVQGEDGQMVVIKQEKDREARLAENACTLADLTEGQVGLLIRKSGKVQLLLGKVTLDVMT
 GTTCSFLQELVSVGLGDSRTGEMTVLGHVKHKLVCSPDFESLLDHKHR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164082

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_001164082.1](#), [NP_001157554.1](#)

RefSeq Size: 2017 bp

RefSeq ORF: 1197 bp

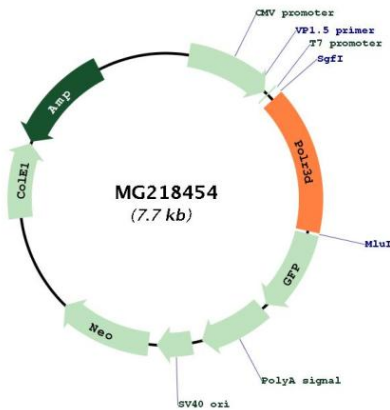
Locus ID: 67065

UniProt ID: [Q91WD1](#)

Cytogenetics: 14 D2

Gene Summary: DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts induce type I interferon and NF- Kappa-B through the RIG-I pathway (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218454