

Product datasheet for MG200406

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OriGene Technologies, Inc.

Polr3k (NM_025901) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Polr3k (NM_025901) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Polr3k

Synonyms: 12.3kDa; 1500004O14Rik; Al196849; AU014893; C11; RPC10; RPC11

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG200406 representing NM_025901

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCTGTTGTTCTGCCCGGGCTGCGGGAACGGACTCATTGTGGAGGAGGGGCAGCGTTGCCATCGCTTCG CCTGCAACACTTGCCCCTACGTCCATAATATCACCCGTAAGGTAACAAACCGAAAGTATCCAAAGCTAAA AGAAGTGGACGACGTGCTTGGTGGAGCAGCTGCATGGGAGAATGTGGACTCTACTGCAGAGCCATGTCCA AAATGCGAACATCCCCGTGCCTACTTCATGCAGCTTCAGACGGTTCTGCAGACGAGCCAATGACCACCT

TCTATAAGTGCTGCAATGCTCAGTGTGGACATCGCTGGAGGGAT

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200406 representing NM_025901

Red=Cloning site Green=Tags(s)

MLLFCPGCGNGLIVEEGORCHRFACNTCPYVHNITRKVTNRKYPKLKEVDDVLGGAAAWENVDSTAEPCP

KCEHPRAYFMQLQTRSADEPMTTFYKCCNAQCGHRWRD

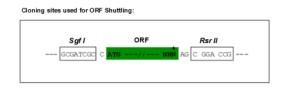
SGPTRTRRLE - GFP Tag - V

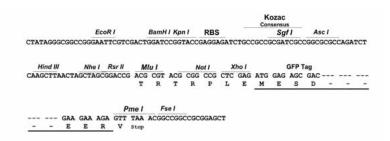
Restriction Sites: Sgfl-Rsrll



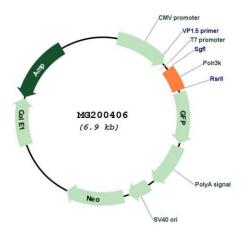


Cloning Scheme:





Plasmid Map:



ACCN: NM_025901

ORF Size: 324 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



Polr3k (NM_025901) Mouse Tagged ORF Clone - MG200406

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: <u>NM 025901.3</u>, <u>NP 080177.1</u>

RefSeq Size: 2925 bp
RefSeq ORF: 327 bp
Locus ID: 67005
UniProt ID: Q9CQZ7
Cytogenetics: 2 H4

Gene Summary: DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four

ribonucleoside triphosphates as substrates. 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]