

Product datasheet for MG202269

Polr2e (NM 025554) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Polr2e (NM_025554) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Polr2e

Synonyms: 25kDa; 2410021N14Rik; AW208866; RPB5; XAP4

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >MG202269 representing NM_025554

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGACGACGAGGAGGAGACCTACCGGCTGTGGAAGATCCGCAAGACCATCATGCAGCTGTGTCATGACC
GTGGCTACCTGGTGACCCAGGATGAACTGGACCAGACACTTGAGGAATTCAAGGCGCAGTTTGGGGACAA
GCCCAGCGAAGGACGCCAAGGCGCACAGACCTCACGGTGCTGGTGGCCCACAACGATGACCCCACAGAC
CAGATGTTTGTGTTCTTCCCAGAGGAGCCCAAGGTGGGCATCAAGACCATCAAGGTATACTGCCAGCGCA
TGCAGGAGGAAAACATCACACGGGCGCTGATTGTGGTGCAGCAGGAGCATGACGCCCTCCGCCAAGCAGTC
CCTGGTGGACATGGCCCCGAAGTATGTGCTGGAACAGTTTCTACAGCAGGAGCTGCTCATCAATATCACA
GAGCACGAGCTAGTCCCTGAGCACGTGGTCATGACAAAGGAGGAGGTGACTGAACTGCTGGCTCGATACA
AGCTTCGTGAGAGCCAGCTACCCAGAATCCAGGCCGGGGACCCAGTGGCACGGTACTTTGGGATCAAGCG
AGGGCAGGTCGTGAAGATCATCCGCCCCAGTGAGACCGCTGCCCCTACATCACCTACCGCCTGGTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202269 representing NM_025554

Red=Cloning site Green=Tags(s)

MDDEEETYRLWKIRKTIMQLCHDRGYLVTQDELDQTLEEFKAQFGDKPSEGRPRRTDLTVLVAHNDDPTD QMFVFFPEEPKVGIKTIKVYCQRMQEENITRALIVVQQGMTPSAKQSLVDMAPKYVLEQFLQQELLINIT EHELVPEHVVMTKEEVTELLARYKLRESQLPRIQAGDPVARYFGIKRGQVVKIIRPSETAGRYITYRLVQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



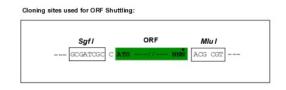
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

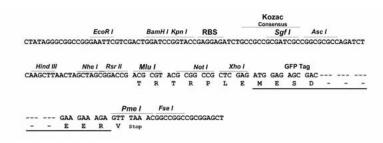
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

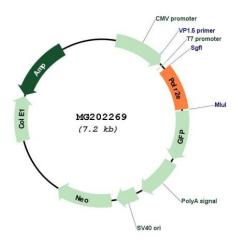


Cloning Scheme:





Plasmid Map:



ACCN: NM_025554

ORF Size: 630 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).



Cytogenetics:

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 025554.2</u>, <u>NP 079830.2</u>

10 C1

 RefSeq Size:
 1022 bp

 RefSeq ORF:
 633 bp

 Locus ID:
 66420

 UniProt ID:
 Q80UW8

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

ribonucleoside triphosphates as substrates. Common component of RNA polymerases I, II and III which synthesize ribosomal RNA precursors, mRNA precursors and many functional non-coding RNAs, and small RNAs, such as 5S rRNA and tRNAs, respectively. Pol II is the central component of the basal RNA polymerase II transcription machinery. Pols are

composed of mobile elements that move relative to each other. In Pol II, POLR2E/RPB5 is part of the lower jaw surrounding the central large cleft and thought to grab the incoming DNA template. Seems to be the major component in this process (By similarity).[UniProtKB/Swiss-

Prot Function]