

Product datasheet for **MG201273**

Polr2e (BC026842) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Polr2e (BC026842) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Polr2e
Synonyms: RPB5, XAP4, 25kDa
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201273 representing BC026842
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGACGAGGAGAGACCTACCGGCTGTGGAAGATCCGAAGACGATCATGCAGCTGTGTCATGACC
GTGGCTACCTGGTGACCCAGGATGAACTGGACCAGACACTTGAGGAATTC AAGGCCAGTTTGGGGACAA
GCCCAGCGAAGGACGGCCAAGGCGCACAGACCTCACGGTGGTGGCCACAACGATGACCCACAGAC
CAGATGTTTGTGTTCTTCCAGAGGAGCCCAAGGTGGGCATCAAGACCATCAAGGTATACTGCCAGCGCA
TGCAGGAGGAAAACATCACACGGGCGTGATTGTGGTGCAGCAGGCATGACGCCCTCCGCAAGCAGTC
CCTGGTGGACATGGCCCCGAAGTATGTGCTGGAACAGTTTCTACAGCAGGAGCTGCTCATCAATATCACA
GAGCACGAGCTAGTCCCTGAGCACGTGGTCATGACAAAGGAGGAGGTGACTGAACTGCTGGCTCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201273 representing BC026842
Red=Cloning site Green=Tags(s)

MDDEEETYRLWKIRKTIIMQLCHDRGYLVTQDELDTLEEFKAQFGDKPSEGRPRRTDLTVLVAHNDPTD
QMFVFFPEEPKVGIKTIKYYCQRMQEENITRALIVVQQGMTPSAKQSLVDMAPKYVLEQFLQQELLINIT
EHELVPHEHVMTKEEVTELLAR

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

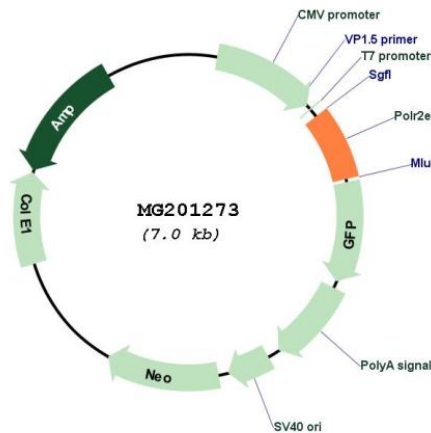


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Cloning Scheme:



Plasmid Map:



ACCN: BC026842

ORF Size: 489 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:	<ol style="list-style-type: none">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>BC026842.1</u>
RefSeq Size:	1289 bp
RefSeq ORF:	488 bp
Locus ID:	66420
Cytogenetics:	10 C1
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]