

## 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)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACGACGAGGAGAGACCTACCGGCTGTGGAAGATCCGAAGACGATCATGCAGCTGTGTCATGACC  
 GTGGCTACCTGGTGACCCAGGATGAACTGGACCAGACACTTGAGGAATTC AAGGCCAGTTTGGGGACAA  
 GCCCAGCGAAGGACGGCCAAGGCCACAGACCTCACGGTGTGGTGGCCACAACGATGACCCACAGAC  
 CAGATGTTTGTGTTCTTCCAGAGGAGCCCAAGGTGGGCATCAAGACCATCAAGGTATACTGCCAGCGCA  
 TGCAGGAGGAAAACATCACACGGGCGCTGATTGTGGTGCAGCAGGCATGACGCCCTCCGCAAGCAGTC  
 CCTGGTGGACATGGCCCCGAAGTATGTGCTGGAACAGTTTCTACAGCAGGAGCTGCTCATCAATATCACA  
 GAGCACGAGCTAGTCCCTGAGCACGTGGTCATGACAAAGGAGGAGGTGACTGAACTGCTGGCTCGA

**ACGCGT**ACGCGGCCGCTCGAG - 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:



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:

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: [BC026842.1](#)

RefSeq Size: 1289 bp

RefSeq ORF: 488 bp

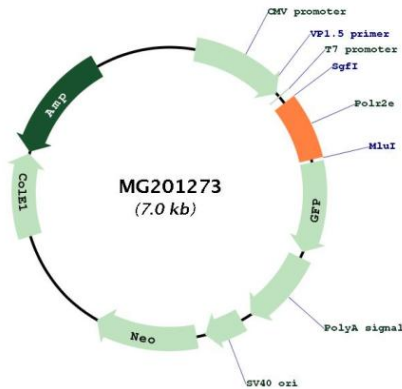
Locus ID: 66420

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]

**Product images:**



Circular map for MG201273