

Product datasheet for **MR202269**

Polr2e (NM_025554) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Polr2e (NM_025554) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Polr2e
Synonyms: 25kDa; 2410021N14Rik; AW208866; RPB5; XAP4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202269 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGACGAGGAGGAGACCTACCGGCTGTGGAAGATCCGCAAGACGATCATGCAGCTGTGTCATGACC
GTGGCTACCTGGTGACCCAGGATGAACTGGACCAGACACTTGAGGAATTC AAGGCCAGT TTTGGGGACAA
GCCCAGCGAAGGACGGCCAAGGCCACAGACCTCACGGTGTGGTGGCCACAACGATGACCCACAGAC
CAGATGTTTGTGTTCTTCCAGAGGAGCCCAAGGTGGGCATCAAGACCATCAAGGTATACTGCCAGCGCA
TGCAGGAGGAAAACATCACACGGGCGCTGATTGTGGTGCAGCAGGCATGACGCCCTCCGCAAGCAGTC
CCTGGTGGACATGGCCCCGAAGTATGTGCTGGAACAGTTTCTACAGCAGGAGCTGCTCATCAATATCACA
GAGCACGAGCTAGTCCCTGAGCACGTGGTCATGACAAAGGAGGAGGTGACTGAACTGCTGGCTCGATACA
AGCTTCGTGAGAGCCAGCTACCCAGAATCCAGGCCGGGACCCAGTGGCACGGTACTTTGGGATCAAGCG
AGGGCAGGTCTGAAGATCATCCGCCAGTGAGACGGCTGGCCGCTACATCACCTACCGCTGGTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202269 protein sequence
Red=Cloning site Green=Tags(s)

MDDEEETYRLWKIRKTI MQLCHDRGYLVTQDELDTLEEFKAQFGDKPSEGRPRRDLTVLVAHNDPTD
QMFVFFPEEPKVGIKTIKVYVYQRMQEENITRALIVVQGMTPSAKQSLVDMAPKYVLEQFLQPELLINIT
EHELVEHVMTKEEVTELLARYKLRESQLPRIQAGDPVARYFGIKRGQVVKIIRPSETAGRYITYRLVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025554

ORF Size: 633 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_025554.2](#), [NP_079830.2](#)

RefSeq Size: 1022 bp

RefSeq ORF: 633 bp

Locus ID: 66420

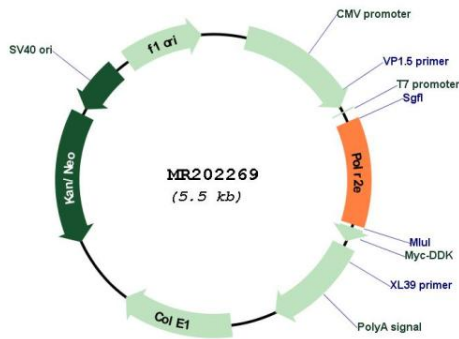
UniProt ID: [Q80UW8](#)

Cytogenetics: 10 C1

MW: 24.6 kDa

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 MR202269