

## Product datasheet for MC206769

### Polr2b (BC038472) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Polr2b (BC038472) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Polr2b
Synonyms:	RPB2, POL2RB, RPB140, MGC47046
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC038472  
 CCACGCGTCCGGGAACGTCGGAGACGGACATTGCTTGGTATCGCACTCTTGAGTTTGCCGCCGCGCTTCC  
 CGTCTCCAGCTTTGCGATTCCGAGTAAGAGCTCCAGAAACCTTTGGCCAAGATGTATGACGCCGACGAGG  
 ACATGCAATATGATGAAGACGACGATGAGATCACTCCGGATCTGTGGCAGGAAGCATGCTGGATCGTGAT  
 CAGTTCTTACTTTGATGAGAAAGCTTGGTCAGACAACAGCTGGATTCTTTGATGAGTTTATTCAGATG  
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TTTTTGTAAATGGCTGCTGGGTTGGAATCCATAAAGACCCCGAACAACTCATGAACACGCTAAGGAAGTT
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AAAAAATTTACTGTTGTGATAAGAATTTTATTGTTTTGTTTAAAGCTACATGTGCTTTTTTCTGTAAT
AATAAATTTTTGTAGATAGTCAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** RsrII-NotI
- ACCN:** BC038472
- Insert Size:** 3504 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:** [BC038472](#), [AAH38472](#)

RefSeq Size: 3818 bp

RefSeq ORF: 3504 bp

Locus ID: 231329

Cytogenetics: 5 C3.3

**Gene Summary:** DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Second largest component of RNA polymerase II which synthesizes mRNA precursors and many functional non-coding RNAs. Proposed to contribute to the polymerase catalytic activity and forms the polymerase active center together with the largest subunit. Pol II is the central component of the basal RNA polymerase II transcription machinery. It is composed of mobile elements that move relative to each other. RPB2 is part of the core element with the central large cleft, the clamp element that moves to open and close the cleft and the jaws that are thought to grab the incoming DNA template (By similarity).[UniProtKB/Swiss-Prot Function]