

Product datasheet for MC223668

Polr1b (NM_009086) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Polr1b (NM_009086) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Polr1b
Synonyms:	128kDa; D630020H17Rik; RPA2; RPA116; RPA135; Rpo1-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223668 representing NM_009086 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGATGTCGACGGCCGGTGGCGGAACCTGCCAGCGGGCCAGCCTAAAGCATTAAACCGACCCCTCGT
ACGGGATCCCCAGAGCAGCAAAGGCAGCTTTCAGGACCTGACGCGGGCGCACGTGGACTCCTTCAA
CTACGCGCGCTGGAGGGCTGAGCCACGCGTGCAGGCCATACCTCCCTTTGAATTTGCTTTCAAAGAT
GAGCGCATATCTTACCATTGTGGATGCTGCATCAGTCCACCCTCAGTGCCCAAAGGGACCATCTGCA
AAGATCTCAACGTTTATCCAGCTGAGTGTGTCGTCGCGGAAAGAGCACCTACCGAGGGAGGCTGACGGCTGA
TATCAGCTGGGCCGTGAATGGAGTCCCCAAAGGGATCATTAAACAGTTTCTCGGCTATGTTCCCATCATG
GTGAAGTCCAAGCTTTGCAACTTATACAACCTTCTCCTCGAGTCTCATTGAGCACCATGAGGAGGCGAG
AGGAAATGGGCGGTTATTTATAATCAATGGCATAGAAAAAGTCATCCGCATGTTGATTGTGCCCGGAG
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GAGCTTTTCTGATTATCAGATTTTCCAGGAGCTTATCAAGGGCAAAGAGGAGGACTCTTTCTTTAGGAAT
TCTGTTTCTCAGATGCTGCGGATTGTGCATAGAAGAGGGCTGCACTCACAGAAGCAGTTCTTAACTATC
TGGGAGAATGCTTCCGAGTGAAGCTCAGCCTTCTGATTGGTACCCTAACGTGGAAGCTGCCGAGTTCTCT
GCTTAACCAAGTGCATCTGCATCCACCTGCAGTCCAACACTGACAAGTTCTACCTGCTCTGCCTCATGACC
CGGAAGCTGTTTCGCTTTAGCCAGAGGGGAGTGCATGGACGACAACCCTGATAGCCTAGTGAACCAAGAGG
TCCTCAGCCCTGGGCAGCTCTTCTGATGTTTCTGAAGGAAAAATGGAAAAGTGGCTAGTGTCTATTAA
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AGTATGGGAACAGAGCTAACAAGACATTTGAATATCTTCTTCTGCTACTGGGAATCTCGTTCTAAAACAG
GTCTCGGCTTCTGCAAGATTCTGGCCTGTGTGTTGTGGCTGACAAGCTGAACCTCCTTCGCTACCTCTC
CCATTTCCGCTGTGTGCACAGAGGGCTGCCTTTGCCAAGATGAGGACCACCACCGTGCAGGCTGCTG



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CCAGAATCCTGGGGCTTCTCTGCCCTGTGCACACTCCAGACGGGGCGCCTTGTGGGCTGTTGAACCACT
 TGACTGCCGTGTGTGAGGTTGTTACCAAGTTTGTGTACACGGCATCTATTCCAGCCTTGCTCTGTGGCTT
 AGGAGTCACTCCTGTTGATACAGCGCCATGTCGACCGTACAGTACTGCTACCCTGTCTGCTGGATGGC
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 GGATCACAAACCAGAGTCCTCGGAACATGTACCAGTGCCAGATGGGTAAGCAGACCATGGGCTTTCGCTG
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 CGTGATGTATGATTTCTATGACATGGACAACATCCGATCGGGACAAACGCCATTGTAGCTGTGATCTC
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 CCGGACATTCTGTTTAACTCCTCACGGGTTTCCCTCCCGTATGACCATAGGTATGTTAATCGAGAGCATGG
 CTGGGAAGTCTGCAGCTTTCACGGTCTCTGCCATGATGCTACACCCTTCATCTTCTCCGAGGAGAACTC
 TGCCTTAGAGTACTTTGGTGAGATGTTAAAGGCTGCTGGCTACAACCTTACGGCACCGAGAGACTGTAT
 AGTGGCATCAGTGGGATGGAGCTGGAGGCTGACATCTTCATTGGTGTGGTTTATTACCAGCGCTTACGGC
 ACATGGTGTGAGCAAAATTTCAAGTCAGAACAACCTGGAGCCAGGGACAAAGTCACCAACCGCCCTCGG
 GGGACGAAATGTTCAAGGTGGAATCCGCTTTGGGGAGATGGAGCGGGATGCTCTGTTGGCACACGGTACG
 TCTTCTCTTTCATGACCGGCTTTTCAACTGCTCTGACCGTCTGTGCGTACATGTGTGTAGAGTGTG
 GCAGTTTGCTTTCTCCGCTACTTGAGAAGCCTCCTCCGCTTGGTCTGCGATGCGCAACAGAAAAGTACAA
 CTGCACTGTCTGTGGCCGAGTGACACCATCGACACCGTCTCTGTGCCGTATGTCTCCGGTACTTTGTA
 GCTGAGCTGGCAGCCATGAACATCAAAGTGAAGTGGATGTCATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_009086
- Insert Size:** 3408 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: [NM_009086.2](#), [NP_033112.2](#)

RefSeq Size: 4017 bp

RefSeq ORF: 3408 bp

Locus ID: 20017

UniProt ID: [P70700](#)

Cytogenetics: 2 F1

Gene Summary: DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Second largest core component of RNA polymerase I which synthesizes ribosomal RNA precursors. Proposed to contribute to the polymerase catalytic activity and forms the polymerase active center together with the largest subunit. Pol I is composed of mobile elements and RPA2 is part of the core element with the central large cleft and probably a clamp element that moves to open and close the cleft (By similarity).[UniProtKB/Swiss-Prot Function]