

## Product datasheet for **MC203961**

### Polr3d (NM\_025945) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Polr3d (NM_025945) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Polr3d
Synonyms:	44kDa; 2810426M17Rik; AI326118; AW489084; BN51T; RPC4; TSBN51
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC016102  
 GATGGCAGCGCCCGGTCCTTGCCACGCAGACTTCGCCTTGCCCGGAGACCCGCGGCCCGTGGTTGCTCT  
 AGTCGGAGGTGAGGTTGTGATACTCGGCGCAGAGCCTCCACGCAGGAACCATGTCGGAAGGAAACGCGGC  
 GGGCGAGCCAGCAATCCTGGAGGGCCGCGACCCCTTCTCTCTGGGGCCGGGGGCTGATCGGCCGCGG  
 CCCGCACCCCGCTTACGCCCGGTCGCCTTCCCTCCATCCGCTCCCGGGACCTCACCTTGGCGGAGTCA  
 AGAAGAAAACCTTCACCCCAAATATCATCAGTCGGAAGATCAAAGAAGAGCCAAAAGAAGAAGTGACTAT  
 GAAGAAGGAAAAGCGTGAACGGGACAGGGACCGCAGCGTGAGGGTCACGGACGGGGACGTGGCCGCCCG  
 GAAGTGATCCAGTCCATTCTATCTTCGAGCAGGGTCCGGCAGAAATGATGAAAAAAAAAAGGGAACGTGGG  
 ATAAGACCGTGGACATGTCGACATGGGACCTTTCATATCATCAACATCAAAAAAGAGAAGAGAGAAAAC  
 AGACGAAGAGACCAAGCAGATCCTGCGCATGCTGGAGAAGGATGACTTCATCGATGACCCGGGGCTAAAG  
 AATGACACACGGAACATGCCAGTGCAGTGCCTCTGGCTCATTACAGGTGGCTTTTTAAGGAGGAGAGTG  
 AAGAGCCAGAGGTAAGCCTCTTTCGGCTGGCCCCAAGGAAGAAGATATGGAGGTGGACGTGCCTGCCGT  
 CAAAGTGAAGAGGAGCCACGAGATGAGGAAGAGGAAGCAAGGTGAAAGCCCTCAAGAGCAGCCCGG  
 AAGACTCTGGCCTCCCAAAGGACGTGTCGGTGGCCGAGCTGCTCAGAGAGCTGAGCCTCATGAAGGATG  
 AGGAGCTCCTGTTCTTACGCTGCCTGACACCCTCCCCGGGCAGCCACCCACTCAGGACATCAAGCCTGT  
 CAAGACAGAGGTGCAAGGCGAGGATGGACAGATGGTAGTCATAAAGCAGGAAAAAGACCCGGAAGCCAGG  
 CTAGCAGAGAATGCTTGTACCTTGGCTGACCTGACAGAGGGTCAAGTGGGCAAACTGCTCATCCGTAAGT  
 CAGGGAAGGTGCAACTCCTCTGGGCAAGGTGACTCTAGATGTGACCATGGGAACGACCTGTTCTTTCT  
 GCAGGAACTGGTGTCTGTGGCCCTTGGAGACAGCAGAACAGGGGAGATGACAGTCTGGGACATGTGAAG  
 CACAACTTGTATGTTCTCTGATTTTGAATCTCTTGGATCACAAACACCGGTGAGATGGACAGATGG  
 AGGAGCACGGTACTGTGCCACGACCCACATGCTCTCAAATACACGCAGCCAGAAAGGGCCTCTTTAG  
 CCCACCCGTTGTAGCCTTTGGCTGTAGTCCCAGTTTCCCCGACTAGGGCCATGCTGCCCTCGCCCCAG  
 CTGTGAATGGGACCTCACACAGCCTGGGTATGGAAGGCGCATCTCATCTCTGGGAACGTGACCCCTGCTA  
 TTTATTTTTTATTATGTCTTAATCCTCAACTGACTGCATTCTCCAGAGTAGAATGGGGCAGGCTTCTT  
 TTTGGGAGCCGTGGGCTACGGGATAGGAAGGGAAGGGGCTCAGGCAGGTAAGAAAAGAACGGGATGCG  
 ATGGAAGTGAAGACTTAAAACCTCAGTCCCAGCTCCCTGGTTTCTAGCTCTGTGTCCTTAACTACATAAT  
 CTTTCTGAGCCTCATATTCCTCACCCGACAGACATGAGGACAATACCTACCTCGCAGGGTTGGTGTGAGC  
 AGCACAGGGAATGTTGTAGATGGGAACTCCTTGACACAAGACTGGATATACATTATATAAGGGGTATGTGT  
 GTGTTTGTATACATAACATACATATGTATGTATATATACATGTACATAACCATAGGCGCTCAATAA  
 ATGTTAGTTTTCTTTCAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_025945

**Insert Size:** 1197 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: [BC016102](#), [AAH16102](#)

RefSeq Size: 1998 bp

RefSeq ORF: 1197 bp

Locus ID: 67065

UniProt ID: [Q91WD1](#)

Cytogenetics: 14 D2

**Gene Summary:** DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts induce type I interferon and NF- Kappa-B through the RIG-I pathway (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.