

## Product datasheet for **MC205109**

### Polr2m (NM\_178602) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Polr2m (NM_178602) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Polr2m
Synonyms:	AA407243; AA408799; AI303746; AW553238; D9Wsu138e; Grinl1a; mKIAA4185
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC062199  
 GGCGACTCCCCTCGCGCTCCAGAGTCGCGCCGGCCGCGGAGCCAGCGCCCGCGTGGGCCCGCCGGG  
 GATCCCTGCCCGCCGCGCCAGCCGAGCCCGTGCCTCAATGTTCTCGCTGCCCGCGGCTTCGAGCCCCA  
 GCTCCCGAGGACTTGGGGCGGCAGAGTTCGCGGAGCTGCGGGAGAGGTTGAGGCCCCAGGAGACTTT  
 TGCGCAACGAAAAATTCATTTGCAAATGCCCCGACAAAGTAAAAAGATCTCAGACACCGTTGCCAACT  
 GAAAGCTGCCATTCAGAACGTGAAGAGGTTAGAGGGAGAAGTGAAGTGTTCATCCTGTAGGTAGAC  
 TGTAAAGCTAAGGCAAAAAGCAACCACAAGAGCTGACACCGATGTAGACAAGGCCAGAGTTCGACCTGA  
 TGCTTGATACTTCATCATTAGTTCTGACTGTTCTCAATAGACATTAAGTCATCTAAATCAACCTCAGA  
 AACACAGGGACCTACACATCTCACTCACAGAGGAATGAAGAGACTTTGGAGGCTGGCTACACAGTAAAC  
 AGCAGCCCAGCTGCCACATCCGAGCCCGGCGCCCTCATCCGAAGTAAAGGAGCATCTCCCCAGCACT  
 CTGTTTCAAGTCAAGAGGAAGAGATCTCCAGCAGCATCGACAGTCTTTCATCACTAAATGCAAAAAAT  
 CACAATTCGAGACCAGAGTGAACCTCAGAAGAAAACACCAGCACTGAGAACTTTCAGAAGTGCAGAGT  
 GAGACTCTAAGAAGCCTCATTACATGAAAGTGTAGAAATGCGAGCCAGAAACCCAGTCCCTCCTC  
 ATAAGTTAAGACCAATGTGTTACCCACACAACAGAGTACTACCAAGTATTGTGAGAGGGCCAGTC  
 TCCTGCTTCTCAGAAGAGCGGCGACGAAGGGCTAGGCAGCATTTGATGATATCACAGCAGCGCGCTC  
 TTCCGCTCCACCACCTGCCTGCACAGCTGCTTCCATAGAAGAGTCGCTGGCCCTGCAGAGGGAGCAGA  
 AGCAGAATTATGAGGAGATGCAGGCAAAGCTCGCAGCACAGAACTGGCCGAGAGACTGAATATTAAT  
 GCAGAGCTACAATCCAGAAGGGGAGTCTTCAGGGAGATACCGAGAAGTGAGGGACGAAGCTGATGCCAG  
 TCCTCGGATGAGTGTGAAGACAGGGCTGGGAGACCCCGAGAGCTGGCTGCAGAGCTCTCATTGGCTCAT  
 CGAACTTTCTAACAAGTATCAAGACCAGCGTCAGACCTTGTGAGGGACAGCAGGTTTTTAAAGTTACACA  
 AAGGTAGCTACAAAGTAAAGAACCCAGTTTGTCTTTCAGAAGACGCTCTTCACAGCTTGCACAGTTAATA  
 TGTGAACCTTGTATTTGGCCGTATTGTGTTACAGTTTTGCAGTATGTTGTGATTGGTCTGATATTTAG  
 TGTGAGTAGAGCACACGTTTTCTTTAGCTGCATTTTTCTTATCTGACTTTATCAGATAGCGCTGCTTA  
 CACCCCTTCTGGTGAATACTTTGTTACCCAGGCACCTAAAGTGAATTAGGAAGCCTGGTTCCTCGC  
 TCAAGAAATGAAGTGTAAAGAATGGTCCACATGCGTGCATGGACATGTTCTGAGATGCTGGATGTGAAA  
 CACTGTGGAAGACACTCAGAAATGTTACAGCAAGTGCATTGGCTGATCCTGTCTCTGCGGTGACTGCT  
 GTCTTCTAGGATGAGGACAAGGAGCACTGAAGAGGTGCTGGCGGGGGAGGGTCTTCTGAGCTGGTGTG  
 GGGAGCTGCTCCTGGCTCCCTTGGCTTGAAGTATTGCTGTCTCGGATGATAGGTCCTGTACAGGGCG  
 TTCAGTTTTGGTAAGGAAACCGATGTTTTCTAAGAGTTACAGTTGACTTGTGAGTATATTGCTTTTTTC  
 ATTTTTAAACCAAGAGGTGTTTATAGGCTGCAGAACTCAGTCATGTATGTACACATTTGTGTTGTT  
 TAAAATGATTATATGATCGTTTTGAGCAAAGATAACAGTATGTTATCAAAGCCTTTGTCTATTACGTGG  
 AACTTGTAAAGAAGAAATAAAATACCAATCAGAGCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_178602
- Insert Size:** 1101 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:** [BC062199](#), [AAH62199](#)

**RefSeq Size:** 2235 bp

**RefSeq ORF:** 1101 bp

**Locus ID:** 28015

**UniProt ID:** [Q6P6I6](#)

**Cytogenetics:** 9 39.85 cM

**Gene Summary:** Isoform 1 appears to be stable component of the Pol II(G) complex form of RNA polymerase II. Pol II synthesizes mRNA precursors and many functional non-coding RNAs and is the central component of the basal RNA polymerase II transcription machinery. Isoform 1 may play a role in Mediator-dependent regulation of transcription activation. Isoform 1 acts in vitro as negative regulator of transcriptional activation; this repression is relieved by the Mediator complex, which restores Pol II(G) activator-dependent transcription to a level equivalent to that of Pol II (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).