

Product datasheet for **MC205594**

Polr2d (NM_027101) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Polr2d (NM_027101) Mouse Untagged Clone
Tag: Tag Free
Symbol: Polr2d
Synonyms: 2310002G05Rik; 2610028L19Rik; HSRBP4; RBP4
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >BC004810

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CGGCAGGTGGAAGCGATCCTCGGGCTGGCGACGTAGAAGAAGATGCTTCCCAGCTTATCTTTCCCAAGA
GTTTGAGACAGCGGAGACTCTGCTGAACCTCGGAAGTCCACATGCTTCTGGAGCATCGAAAGCAGCAGAAC
GAGAGCGCGGAGGACGAGCAGGAGCTGTCGGAGGTCTTCATGAAAACCCTCAACTACACGCCCGCTTCA
GCCGCTTCAAAAACAGAGAGACCATTGCCAGCGTGCAGCTTGCTTCTCCAGAAAAAGTTACATAAGTT
TGAGTTGGCTGTTTAGCCAATCTTTGCCCGGAGACTGCTGAAGAGTCCAAAGCTCTGATTCCAAGCCTG
GAAGGGCGTTTTGAAGATGAGGAGCTGCAGCAGATTCTCGATGACATCCAGACGAAGCGCAGCTTCCAGT
ACTGATCCGCAGACGTCCTCTGCTCCTTGAGTTACAGCACACGGTCTGAAGCCCGGGGAGGCCTCATG
CAGGAACATTGCTTCAGAAGACGCTGGAGCTTCTTTTCGTAGTTTTGCTTCACTGCGAGAGAGTGTCTCT
CCAGTTCTCAAAGTCATAACAGTCCTCCTGCCTCAGCCTCGCAGGTGCTGGGATTACAGGTGTGAGCCAA
CACTTTCAGCTTGGCTTCTGGAGAGGAAAGAAAGGCTGGCTATTGATGCTGTAGGTGCTATCTTCACAGT
GACTGTTAGACCATAACTACCATCTGCGCTCCTTGACGCCTTTAAGGCTGCTGTGGTCAGCAGGCTGC
CATCTGAACTGCTGAGGTAGAATGATGTTCAAACATTGCTGACTACTTCGTACCGTGGTTTTTTTGGAA
CCCCATGTTACTATTTTTTTGTTCTTGACACTTCAGATTTTAAATGTCAATTATTTTGTAGTTTTTGAAGC
TAAATGATATATAAAAACTTGATAGGAGAGGAGTGTTCCTTGGTTGTAAGGGGAGAAATAAAC
CAGAACACTGTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: RsrII-NotI

ACCN: NM_027101

Insert Size: 315 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).



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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:	<ol style="list-style-type: none">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:	<u>BC004810</u> , <u>AAH04810</u>
RefSeq Size:	1027 bp
RefSeq ORF:	315 bp
Locus ID:	69241
UniProt ID:	<u>Q9D7M8</u>
Cytogenetics:	18 B1
Gene Summary:	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Component of RNA polymerase II which synthesizes mRNA precursors and many functional non-coding RNAs. 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. RPB4 is part of a subcomplex with RPB7 that binds to a pocket formed by RPB1, RPB2 and RPB6 at the base of the clamp element. The RPB4-RPB7 subcomplex seems to lock the clamp via RPB7 in the closed conformation thus preventing double-stranded DNA to enter the active site cleft. The RPB4-RPB7 subcomplex binds single-stranded DNA and RNA (By similarity).[UniProtKB/Swiss-Prot Function]