

Product datasheet for **MC217616**

Polr3c (NM_028925) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Polr3c (NM_028925) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Polr3c
Synonyms:	4933407E01Rik; RPC3; RPC62
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217616 representing NM_028925
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTCAAGCAGAGATTAACCTGTGTTCTTTGTGCTGCAAGAGCATTTTGGTGAGATTGTAGAAAAA
 TTGGAGTCCACCTAGTCAGAAGCTGGAAGCCAGCCACTTAGAGTAATTGCCACGACACAAAAGCATCCCT
 GGACCAGGTGAAAAAGCCCTTTGTGTCCTCATTACCACAACCTGGTCCTCTATCATGTGCACAAGCGC
 GGTGTGGTGGAGTATGAAGCCCAGTGCAGCCGGTACTGAGGATGCTTAGGTATCCCCGGTACATCTACA
 CCACAAAACGCTGTACGGTGACACCGGAGAGCTGATTGTTGAGGAGCTCCTGCTGAATGGCAAAATGAC
 AATGTCAGCTGTTGTGAAGAAAGTAGCCGACCGACTCACAGAGACCATGGAGGATGGCAAGACCATGGAC
 TACGCTGAGGTATCAAATGCATTTGTGCGACTGGCAGATACTCACTTTGTACAGCGCTGTCCCTGGTTC
 CTGACACTGACAGTTCTGACCGTGGGCCACCGCCACCCGCCCAACCCTTGTCTTAATGAAAAGGACAT
 GTACCTAGTTCCCAAAGTGGAGTGGAGGAGGATCATCTGATGAAGATGCTACT
 GGAGAGCCCAAGGCCAAGAAACCAAGATACACAGATAACAAGGAGCCCTACCAGACGATGGGATTTATT
 GGCAAGTCAACCTCGACAGGTTCCACCAGCACTTCCGTGACCAAGCAATCGTGAGCGCAGTGGCAAACCG
 AATGGACCAGACAAGCAGCGAGATCGTGCGGACGATGCTCCGGATGAGTGAGATCACCCTCCCTTAGC
 GCCCCTATACTCAGCCGCTGTCTCCAATGAGATCTTCAGGTCCTGCCGTCGGATATAACATCTCTA
 AACAGGTTCTCGATCAGTACCTCACGCTGCTGGCAGATGACCCACTAGAGTTTATTGGAAAGTCTGGCGA
 CAGTGGCGGAGGAATGTTTGTCACTAACCTCCATAAAGCATTAGCGTCCCTAGCCACTGCAACTCTGGAG
 TCTGTCACTCCAGGAGAGATTCGGGTCTCGCTGTGCCAGGATATCCGTCTGGTATTGCAGAAGAAACACC
 TTGAGCAGAAGCAGGTGGAGGACTTTGCAATGATCCCTGCGAAGGAGGCAAGGACATGCTGTACAAGAT
 GCTCTCGGAAAACCTTCATCCTGCTGCAGGAAATTCCTAAGACGCCAGACCACGCCCGTCCAGGACCTTC
 TATCTGTACACTGTGAATGTGCTCTCAGCTGCCAGGATGCTGTTGCACAGGTGCTATAAGAGCATAGCCA
 ACTTGATAGAACGGCGACAGTTTGAACAAGGAGAACAAGCGGCTACTAGAAAAGTCTCAGCGGTGGA
 AGCCATCATGGCATCCATGCAGGCCACGGGTGCAGAGGAGGTGCAGTGCAGGAGATAGAGGAGATGATC
 ACAGCCCCGAGCGGCAGCAGCTGGAGACTGAAACGCAACGTTAACAAGTTGGACGCCAGTGGAGATCC
 AGGTGGATGAAACCATCTTCTTACTGGAATCATACTTGGAGACCATGAAGAGGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_028925

Insert Size: 1602 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_028925.1](#), [NP_083201.1](#)

RefSeq Size: 1796 bp

RefSeq ORF: 1602 bp

Locus ID: 74414

UniProt ID: [Q9D483](#)

Cytogenetics: 3 F2.1

Gene Summary: DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific core component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. May direct with other members of the subcomplex RNA Pol III binding to the TFIIIB-DNA complex via the interactions between TFIIIB and POLR3F. May be involved either in the recruitment and stabilization of the subcomplex within RNA polymerase III, or in stimulating catalytic functions of other subunits during initiation. 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. Preferentially binds single-stranded DNA (ssDNA) in a sequence-independent manner.[UniProtKB/Swiss-Prot Function]