

## Product datasheet for **RN214037**

### **Polr3c (NM\_001012081) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Polr3c (NM_001012081) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Polr3c
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN214037 representing NM\_001012081  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTCAAGCAGAAATTAACCTGTGCTCTTTGTTGCTACAAGAGCATTTTGGTGAGATTGTAGAAAAA  
 TTGGAGTCCACCTAATCAGAAGCTGGGAGCCAGCCACTTAGAGTAATTGCCATGACACAAAAAGCATCACT  
 GGACCAGGTGAAAAAGCCCTTTGTGTCCTCATTACCCATAACCTGGTCATCTATCATGTGCATAAACGC  
 GGTGTGGTGGAGTATGAAGCCCAATGCAGCCGGTACTGCGGATGCTTCGGTACCCCGGTACATCTATA  
 CTACAAAACACTGTATGGTGACACTGGAGAGCTGATTGTTGAGGAGCTTCTGCTGAATGGCAAAATGAC  
 AATGTCGGCTGTTGTGAAGAAAGTAGCAGACCGACTCACAGAGCCATGGAGGATGGCAAGACCATGGAC  
 TACGCTGAGGTGCAAAATGCATTTGTTGACTGGCAGATACTCACTTTGTACAGCGCTGTCCCTGGTTC  
 CTGACACTGACAGTTCTGACCCCGGCCCGCCACCTGCCCAAACCTTGTCTTAATGAAAAGGACAT  
 GTACCTAGTTCCTAAACTGAGCTTGATAGGAAAAGGTAAGAGGAGGAGATCATCTGACGAAGATGCTGCT  
 GGAGAGCCCAAGGCCAAGAAACCAAGATGCACAGATAATGAGGAGCCACACCAGACGATGGGATTTATT  
 GGCAAGTCAACCTGGACAGATTCACCAGCACTCCGTGACCAAGCAATTTGTGAGCGCAGTGCCAAACCG  
 AATGGACCAGACAAGCAGCGAGATTGTGCGGACAATGCTCCGAATGAGTGAGATTACCACTCCCTCTGGT  
 GCGCCGTTTACTCAGCCACTGTCTCCAATGAGATCTTCAGATCCCTGCCCGTCGGATATAATATCTCTA  
 AACAGGTTCTGGATCAGTACCTCACGCTGCTGGCAGATGACCCACTAGAATTTATTGGAAAGGCTGGCGA  
 CAGTGGCGGAGGAATGTATGTCAACCTCCATAAGGCATTAGCATCCCTATCCACTGCAACTCTGGAG  
 TCTGTCAATCAAGAGAGATTTCGGTCTCGCTGTGCCCGGATATCCGTCTGGTGTGCAGAAGAAGCACC  
 TGGAGCAGAAGCAGGTGGAGGACTTTGCAATGATCCCTGCAAAGGAGGCAAGGACATGCTGTATAAGAT  
 GCTCTCGGAGAATTCATATCACTGCAGGAAATTCCTAAAACGCCAGACCACGCCCGTCCAGGACCTTC  
 TATCTGTACACCGTGAATGTGCTGTACGCCAGGATGCTGTTGCACAGGTGCTACAAGAGCATAGCCA  
 ACTTGATAGAAAGGCGCAATTTGAAACAAAAGAGAACAAGCGGCTACTAGAAAAGTCTCAGCGGTGGA  
 AGCCATCATGGCATCAATGCAGGCCACGGTGCAGAGGAGGTACAGCTGCAGGAGATCGAGGAGATGATC  
 ACAGCCCCGAGCGGCAGCAGCTGGAGACTGAAACGCAACGTTAACAAGTTGGATGCCAGTGAGATCC  
 AGGTAGATGAAACCATCTTCTTACTGGAATCATACATCGAGAGCACCATGAAGAGACAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001012081

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001012081.1, NP_001012081.1</u>
<b>RefSeq Size:</b>	2394 bp
<b>RefSeq ORF:</b>	1602 bp
<b>Locus ID:</b>	310685
<b>UniProt ID:</b>	<u>Q5XIL3</u>
<b>Cytogenetics:</b>	2q34
<b>Gene Summary:</b>	<p>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]</p>