

Product datasheet for **MC207628**

Polr3g (NM_001081176) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Polr3g (NM_001081176) Mouse Untagged Clone
Tag: Tag Free
Symbol: Polr3g
Synonyms: 2310047G20Rik; AV275904; RPC7; RPC32
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC207628 representing NM_001081176
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGGCAATAAAGGAAGAGGGCGTGCCTACACCTTTAATATCGAAGCTGTTGGATT**CAGCAGAG**
GGGAGAAGTTACCTGATGTTGTGTTGAAGCCTCCACCCCTGTTTCCTGATACAGACTACAAGCCGGTGCC
CCTGAAAACGGGAGAAGATGAGGATTACATGCTGGCCTGAAGCAGGAGTTGAGGGAAACAGT**GAAACGA**
TTGCCGTACTTTATTGAACCACCCGAAGAAAAACAAGATGATATTGAAAGGTATAGCAAACGATACATGA
AGGTCTATAAAGAAGAATGGGTACCAGATTGGAGAAGACTTCCAAGAGAGATGATGCCAAGGAAAAATG
CAAAAAAGGGATCCAAAATCCAAGCCGAGCAAAGCTGCAGCCAAGGCTACATCACTCATTAAATCTGCA
GATGTGTTGAAAACGATTGAGGAACTGGAAAAGAGAGGGCGAGGGT**GAAAGATCGGATGAAGAAAACGAAG**
AGAAAAGAGGGAGCAAAGAGAAAAGATAAAGATGATGAGGAGGATGGCGAGGAAGATGCAGAACAGGAGGA
CTACGATGAAGAGGAACAAGAAGAGGAGAATGACTACATTA**ACTCCTACTTCGACAACGGCGATGATTTT**
GGTGTAGACAGCGACGACAACATGGATGAAGCCACCTAC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001081176
Insert Size: 672 bp



[View online »](#)

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:	<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>NM_001081176.1</u> , <u>NP_001074645.1</u>
RefSeq Size:	3060 bp
RefSeq ORF:	672 bp
Locus ID:	67486
UniProt ID:	<u>Q6NXY9</u>
Cytogenetics:	13 C3
Gene Summary:	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific peripheric component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. May direct with other members of the RPC3/POLR3C-RPC6/POLR3F-RPC7/POLR3G subcomplex RNA Pol III binding to the TFIIB-DNA complex via the interactions between TFIIB 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.[UniProtKB/Swiss-Prot Function]