

# **Product datasheet for MR220555**

## Polr1d (NM\_009087) Mouse Tagged ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Polr1d (NM\_009087) Mouse Tagged ORF Clone

Tag: Myc-DDK
Symbol: Polr1d

**Synonyms:** 16kD; 1110003G10Rik; AC19; mRP; RPA16; Rpo; Rpo1-3

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >MR220555 representing NM\_009087

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAAGACCATCAGGAGCTGGAGAGAAAAATATCAGGATTGAAGACCTCAATGGCTGAAGGCGAGAGGA AGACAGCCCTGGAAATGGTCCAGGCAGCAGACAGACAGATAGACAGTGTGTGACATTTGTCCTGCACGAGGA GGACCATACACTAGGAAACTGTCTGCGGTACATAATCATGAAGAACCCGGAAGTGGAATTTTGTGGTTAC ACTACGACCCATCCTTCAGAGAGCAAAATTAATTTGCGAATTCAGACCCGGGGTGCCCTTCCAGCTGTTG AGCCGTTTCAGAAAGGCCTGAATGAGCTCTTGAATGTCTGCCAGCATGTGCTTGCAAGTTTGAGGCCAG

CATAAAGGACTATAAAGCTAAAAAGGCAAGCAAAAAGGAGCCCACATTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220555 representing NM\_009087

Red=Cloning site Green=Tags(s)

MEDDQELERKISGLKTSMAEGERKTALEMVQAAGTDRQCVTFVLHEEDHTLGNCLRYIIMKNPEVEFCGY

TTTHPSESKINLRIQTRGALPAVEPFQKGLNELLNVCQHVLVKFEASIKDYKAKKASKKEPTF

**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

**Restriction Sites:** Sgfl-Mlul



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

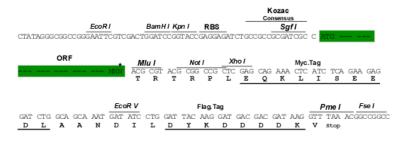
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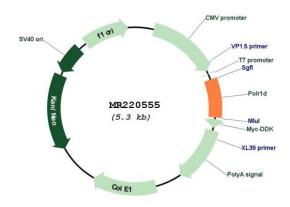
#### **Cloning Scheme:**





<sup>\*</sup> The last codon before the Stop codon of the ORF

#### Plasmid Map:



**ACCN:** NM\_009087

ORF Size: 399 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

#### Polr1d (NM\_009087) Mouse Tagged ORF Clone - MR220555

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**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: <u>NM 009087.2</u>

 RefSeq Size:
 699 bp

 RefSeq ORF:
 402 bp

 Locus ID:
 20018

 UniProt ID:
 P97304

 Cytogenetics:
 5 G3

 MW:
 15.5 kDa

**Gene Summary:** This gene encodes an RNA polymerase subunit that is a component of both the RNA

polymerase I and RNA polymerase III complexes. RNA polymerase I is associated with

transcription of pre-ribosomal RNAs, while RNA polymerase III is associated with transcription

of small RNAs. Pseudogenes of this gene have been defined on chromosomes 4 and 6. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2013]