

Product datasheet for **RN213420**

Polr2e (NM_001109614) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Polr2e (NM_001109614) Rat Untagged Clone
Tag: Tag Free
Symbol: Polr2e
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN213420 representing NM_001109614
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGACGAGGAGAAACGTATCGGCTGTGGAAGATCCGCAAGACTATCATGCAGCTGTGTCATGACC
GAGGCTACCTGGTGACCCAGGATGAGCTGGACCAGACACTGAAGAGTTCAAGGCACAGTTTGGGGACAA
GCCAGCGAAGGACGGCCGAGGCGCACAGACCTACCGTCTGGTGGCCACAACGATGATCCACAGAC
CAGATGTTTGTCTTCTCCAGAGGAGCCCAAGGTGGGCATCAAGACCATCAAGGTGTACTGCCAGCGCA
TGCAGGAGGAGAACATCACACGGCGCTGATCGTGGTGCAGCAGGGCATGACACCCTCCGCCAAGCAGTC
CCTGGTAGACATGGCCCTAAGTACGTGCTAGAACAGTTTCTACAGCAGGAGCTGCTCATCAATATCACA
GAACATGAGCTAGTCCCTGAGCACGTGGTTCATGACCAAGGAGGAGGTGACGGAAGTCTGGCGCGATACA
AGCTCCGTGAGAGCCAGCTGCCAGGATCCAGGCTGGGGACCCGGTGGCACGGTACTTCGGGATCAAGCG
AGGGCAGGTTGTGAAGATTATCCGCCAGTGAGACAGCCGGCCGGTACATCACCTACCGCTGGTGCAG
TAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001109614
Insert Size: 633 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>NM_001109614.1</u> , <u>NP_001103084.1</u>
RefSeq Size:	1082 bp
RefSeq ORF:	633 bp
Locus ID:	690966
UniProt ID:	<u>B0BNE2</u>
Cytogenetics:	7q11
Gene Summary:	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Common component of RNA polymerases I, II and III which synthesize ribosomal RNA precursors, mRNA precursors and many functional non-coding RNAs, and small RNAs, such as 5S rRNA and tRNAs, respectively. Pol II is the central component of the basal RNA polymerase II transcription machinery. Pols are composed of mobile elements that move relative to each other. In Pol II, POLR2E/RPB5 is part of the lower jaw surrounding the central large cleft and thought to grab the incoming DNA template. Seems to be the major component in this process (By similarity).[UniProtKB/Swiss-Prot Function]