

## Product datasheet for RC240022

### POLR1B (NM\_001282772) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** POLR1B (NM\_001282772) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** POLR1B  
**Synonyms:** A135; RPA2; RPA135; Rpo1-2; TCS4  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC240022 representing NM\_001282772  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGAGCCAAAGAGGCTGCGGAAACGGGACTGCGGCCACTACTCCGGCGTGTACCGAGAGACTGGCGT  
CCGGCGTGTACCGAGAGACTGGCGTCCGGTGTGACAGGTGGCCACATGGATCCTGGCAGCCGGTGGCGGAA  
CCTGCCACGGCGGCTAGCCTAAAGCACTTGACTGACCCCTCTTATGGAATCCCGCGGGAACAGCAAAG  
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TCGCGGTGCAGGCTATACCTCCCTTTGAATTTGCTTTCAAAGATGAGCGTATCTCTTTACTATTCTGGA  
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CAAAAGGAATCATTAAAGCAGTTTCTTGGCTATGTTCCCATCATGGTGAATCCAAGCTTTGCAACTTACG  
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CTTTGTGTTGGCTGACAAGCTGAACTTCATACGCTACCTCTCCCATTTCCGCTGCGTGACAGAGGGG



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CTGATTTTGCCAAGATGAGGACCACCACAGTACGCAGGCTGCTGCCAGAGTCCTGGGGCTTCCTTTGTCC  
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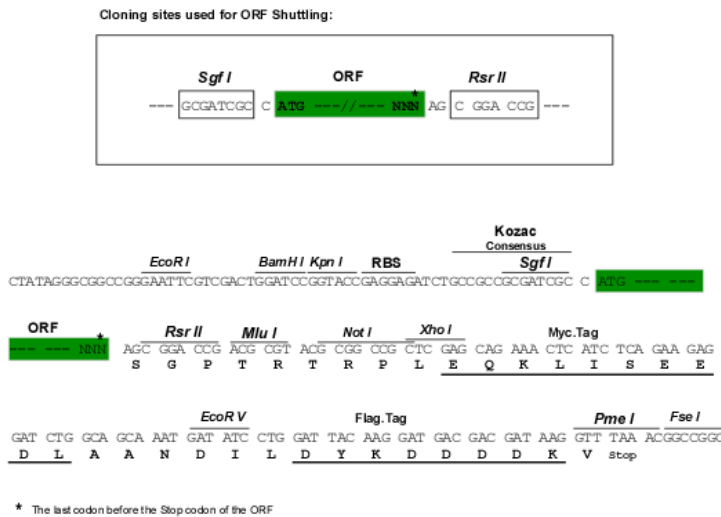
**Protein Sequence:** >RC240022 representing NM\_001282772  
 Red=Cloning site Green=Tags(s)

MRAKEAAETGLRPLLPACTERLASGVYRETGVRCAAGHMDPGSRWRNLPSGPSLKHLDPSYGPPIREQQK  
 AALQELTRAHVESFNAYVHEGLGLAVQAIPPFEFKDERISFTILDAVISPTVPKGTICKEANVYPAE  
 CRGRRSTYRGKLTADINWAVNGISKGIKQFLGYVPIVKSCLKNLRNLPPQALIEHHEEAEMGGYFII  
 NGIEKIRMLIMPRRNFPPIAMIRPKWKTRGPGYTQYGVSMHCVREEHSAVNMLHYLENGTVMLNFIYRK  
 ELFFLPLGFALKALVSFDYQIFQELIKGKEDDSFLRNSVSQMLRIVMEEGCSTQKQVLNVLGECFRVKL  
 NVPDWYPNEQAAEFLFNQCICIHLSNTEKFYMLCLMTRKLFALAKGECMEDNPDLSVNQEVLTGQLFL  
 MFLKEKLEGLVSIKIAFDKKAQKTSVSMNTDNLMRIFTMGIDLTKPFEYLFATGNLRSKTGLGLLQDSG  
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 VLQKLDLDDGLPFIGAKLQYQDPYYSYLNLTGESFVYKSKENCVVNDIKVCSNDTGSKFKCVCTITMR  
 YPRNPTIGDKFASRHGQKILSRLWPAEDMPFTESGMVPDILFNPHGFP SRMTIGMLIESMAGKSAAALHG  
 LCHDATPFIFSEENSALEYFGEMLKAAGYNFYGTERLYSGISGLELEADIFIGVYVYQRLRHMVSDKFQV  
 RTTGARDRVTNQPIGGRNVQGGIRFGEMERDALLAHGTSFLLHDLRFNCSDRSVAHVCKVCGSLLSPLLE  
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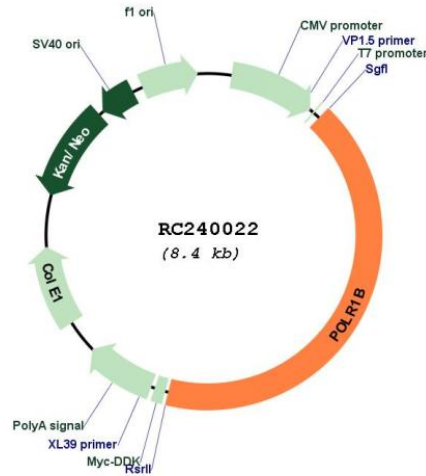
SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001282772

**ORF Size:** 3519 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](#)

**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:** [NM\\_001282772.2](#)

**RefSeq Size:** 5077 bp

**RefSeq ORF:** 3522 bp

**Locus ID:** 84172

**UniProt ID:** [Q9H9Y6](#)

**Cytogenetics:** 2q14.1

<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase
<b>MW:</b>	132.7 kDa
<b>Gene Summary:</b>	Eukaryotic RNA polymerase I (pol I) is responsible for the transcription of ribosomal RNA (rRNA) genes and production of rRNA, the primary component of ribosomes. Pol I is a multisubunit enzyme composed of 6 to 14 polypeptides, depending on the species. Most of the mass of the pol I complex derives from the 2 largest subunits, Rpa1 and Rpa2 in yeast. POLR1B is homologous to Rpa2 (Seither and Grummt, 1996 [PubMed 8921381]).[supplied by OMIM, Mar 2008]