

Product datasheet for **RG222203**

POLR1F (NM_001002926) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR1F (NM_001002926) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POLR1F
Synonyms:	A43; RPA43; TWISTNB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222203 representing NM_001002926 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCAGGTTGCTCAGAGGCCCGCGGCCAGCGGGCTTCTGATGGGTCTCTGGTAGGGCAGGCTG
GCGTCCTGCCTTGCCCTAGAGTTGCCGACTTATGCCGCTGCTTGTGCGCTGGTGAACAGTCGCTACTCATG
CCTGGTGGCCGGCCGCACCAAAGGCACATCGCGCTGTCGCCCGCTACCTAACAGGAAACGCACCGGC
ATTCGAGAACAGCTTGATGCGGAGCTCCTTCGCTATTCTGAGAGCCTTTAGGTGTCCTATTGCATATG
ATAACATCAAAGTTGTGGGAGAGCTTGGAGATATTTATGATGATCAAGGACACATTCATCTAACATTGA
AGCCGATTTTGTATTTTCTGCCCTGAACCAGGGCAGAAGCTTATGGGTATAGTTAATAAAGTGTCTTCT
AGCCACATTGGCTGTTTAGTACATGGGTGTTTCAATGCCTCCATTCTAAACCTGAGCAGTTGTCAGCTG
AGCAGTGGCAAACCATGGAGATAAATGCGGTGATGAACTAGAAATTTGAAGTATTTGTTTAGACTCAGA
TGCTGCTGGAGTATTCTGCATTCGGGAAAACTAAATACACAAGTTTACAATTCAGCGCTCTGAAGTT
TCTGAAGAAGTTACAGAAAAATGGCACTGAGGAAGCTGCTAAAAACCTAAAAAGAAGAAAAAGAAGAAAG
ACCCAGAGACATATGAAGTGGACAGTGGTACCACAAAGCTAGCAGATGATGCAGATGACACTCCAATGGA
AGAGTCAGCCCTGCAGAATACTAATAATGCGAATGGCATCTGGGAGGAGGACCAAGAAAAAGAAGAAAG
AAGAAAAAGCACCAGGAAGTTCAGGACCAGGACCCTGTTTTCCAAGGCAGTGACTCCAGTGTTACCAA
GTGACCATAAAAAAGAAAAAAGAAAAAAGAAAAACACAGTGAAGAGGCCGAATTTACCCACCTTTGAAATG
CTCACAAAAAGAAAAAGGAAAAAGTAATTTTCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222203 representing NM_001002926
 Red=Cloning site Green=Tags(s)

MAAGCSEAPRPAASDGLVQAGVLPCLLEPTYAAACALVNSRYSCLVAGPHQRHIALSPRYLNRKRTG
 IREQLDAELLRYSESLGVPPIAYDNIKVVGELGDIYDDQGHILNIEADFVIFCPEPGQKLMGIVNKVSS
 SHIGCLVHGCFNASIPKPEQLSAEQWQTMEINMGDELEFEVFRLDSDAAGVFCIRGKLNITSLQFKRSEV
 SEEVTENGTEEAAKPKKKKKKKKDPETYEVDSTKLADDADDTMPEESALQNTNNANGIWEEEPKKKKK
 KKKHQEVQDQDPVFGSDSSGYQSDHKKKKKKRKHSEEAFTPLPKCSPKRKKGKSNFL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001002926

ORF Size: 1014 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_001002926.2](#)

RefSeq Size: 3892 bp

RefSeq ORF: 1017 bp

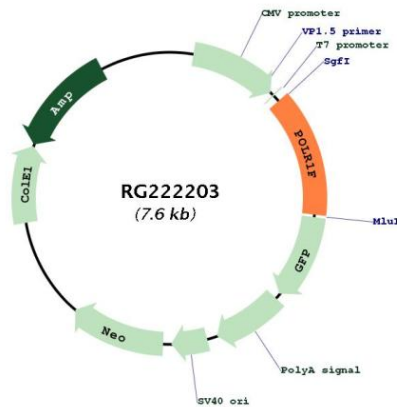
Locus ID: 221830

UniProt ID: [Q3B726](#)

Cytogenetics: 7p21.1

Gene Summary: DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Component of RNA polymerase I which synthesizes ribosomal RNA precursors. Through its association with RRN3/TIF-1A may be involved in recruitment of Pol I to rDNA promoters.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG222203