

Product datasheet for MR203684

Polr2c (BC002023) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Polr2c (BC002023) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Polr2c
Synonyms:	mRBP31, 33kDa, RPB3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203684 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGTACGCCAACAGCCAACAGTGC GGATCACGGAACACCGAAGAGAACGTCAAGTTCATTATCG
AGAACACGGACCTGGCGGTGGCCAATTCATTCGGAGGGTCTTCATCGCAGAGGTGCCATAATAGCCAT
CGACTGGGTTGAGATTGACGCCAACTCCTCGGTCCTTCATGATGAATTCATCGCGCACAGGCTTGGTTTA
ATCCCCCTCACTAGTGATGACATTGTGGACAAGCTGCAGTACTCCCGGGACTGCACATGTGAAGAGTTCT
GCCCTGAGTGTTCTGTGGAGTTCCTCTCGATGTGAGGTGCAATGAAGACCAGACGCGCCATGTCACCTC
CCGAGATCTCATCTCCAACAGCCCCGGGTTATTCGGTGACATCTCGGAACCGGGATAACGACCCTAAT
GACTATGTGGAGCAGGATGACATCCTTATTGTCAAGCTGAGGAAGGGGCAGGAGCTGAGACTTCGAGCCT
ATGCCAAGAAGGGCTTTGGCAAGGAACATGCCAAGTGAACCCCTACTGCGGGGTAGCTTTTGAATACGA
TCCAGACAACGCACCTTCGGCATAACAGTGTATCCCAAGCCTGAGGAATGGCCCAAGAGTGAGTATCCGAG
CTGGATGAGGATGAGTCGCAGGCTCCCTACGACCCCAACGGCAAGCCAGAGAGGTTTTACTACAATGTGG
AGTCGTGGCTCACTGCGCCCTGAAACCATTGCCTCTCAGCCCTGTGCGGGCTAAAGAAGAAGCTGAG
TGATTTACAGACTCAGTTAAGCCATGAGATCCAGAGTGACGTGCTCACCATAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203684 protein sequence
Red=Cloning site Green=Tags(s)

MPYANQPTVRITELTEENVKFIIENTDLAVANSIRRVFIAEVPIIAIDWVQIDANSSVLHDEFIAHRLGL
 IPLTSDDIVDKLQYSRDCTCEEFCEPCSVFTLDVRCNEDQTRHVTSRDLISNSPRVIPVTSRNRDNDPN
 DYVEQDDILIVKLRKGQELRLRAYAKKGFGEHAKWNPATGVAFEYDPDNALRHTVYYPKPEEWPKSEYSE
 LDEDESQAPYDPNGKPERFYNNVESCGLSRPETIVLSALSGLKKKLSDLQTLQSHEIQSDVLTIN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: BC002023

ORF Size: 825 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: [BC002023](#), [AAH02023](#)

RefSeq Size: 1207 bp

RefSeq ORF: 827 bp

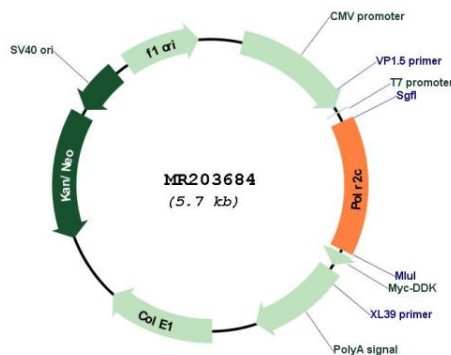
Locus ID: 20021

Cytogenetics: 8 C5

MW: 31.4 kDa

Gene Summary: DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Component of RNA polymerase II which synthesizes mRNA precursors and many functional non-coding RNAs. Pol II is the central component of the basal RNA polymerase II transcription machinery. It is composed of mobile elements that move relative to each other. RPB3 is part of the core element with the central large cleft and the clamp element that moves to open and close the cleft (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203684