

## Product datasheet for **MG203684**

### Polr2c (BC002023) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Polr2c (BC002023) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Polr2c
Synonyms:	mRBP31, 33kDa, RPB3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203684 representing BC002023 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGTACGCCAACCCAGCCAACAGTGC GGATCACGGAACCTACCGAAGAGAACGTCAAGTTCATTATCG  
AGAACACGGACCTGGCGGTGGCCAATTCCATTCGGAGGGTCTTCATCGCAGAGGTGCCATAATAGCCAT  
CGACTGGGTTTCAGATTGACGCCAACTCCTCGGTCCTTCATGATGAATTCATCGCGCACAGGCTTGGTTTA  
ATCCCCCTCACTAGTGATGACATTGTGGACAAGCTGCAGTACTCCCGGGACTGCACATGTGAAGAGTTCT  
GCCCTGAGTGTTCTGTGGAGTTCCTCTCGATGTGAGGTGCAATGAAGACCAGACGCGCCATGTCACCTC  
CCGAGATCTCATCTCCAACAGCCCCGGGTTATTCGGTGACATCTCGGAACCGGATAACGACCCTAAT  
GACTATGTGGAGCAGGATGACATCCTTATTGTCAAGCTGAGGAAGGGGCAGGAGCTGAGACTTCGAGCCT  
ATGCCAAGAAGGGCTTTGGCAAGGAACATGCCAAGTGAACCCCTACTGCGGGGTAGCTTTTGAATACGA  
TCCAGACAACGCACCTTCGGCATAACAGTGTATCCCAAGCCTGAGGAATGGCCCAAGAGTGAGTATCCGAG  
CTGGATGAGGATGAGTCGCAGGCTCCCTACGACCCCAACGGCAAGCCAGAGAGGTTTTACTACAATGTGG  
AGTCGTGTGGCTCACTGCGCCCTGAAACCATTGCCTCTCAGCCCTGTGCGGGCTAAAGAAGAAGCTGAG  
TGATTTACAGACTCAGTTAAGCCATGAGATCCAGAGTGACGTGCTCACCATAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203684 representing BC002023  
 Red=Cloning site Green=Tags(s)

MPYANQPTVRITELTEENVKFIIENTDLAVANSIRRVFIAEVPIIAIDWVQIDANSSVLHDEFIAHRLGL  
 IPLTSSDDIVDKLQYSRDCTCEEFCPECSVEFTLDVRCNEDQTRHVTSRDLISNSPRVIPVTSRNRDNDPN  
 DYVEQDDILIVKLRKGQELRLRAYAKKGFGEHAKWNPTAGVAFEYDPDNALRHTVYYPKPEEWPKSEYSE  
 LDEDESQAPYDPNGKPERFYNNVESCGLSRPETIVLSALSGLKKKLSDLQTLQSHEIQSDVLTIN

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**ACCN:** BC002023

**ORF Size:** 827 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

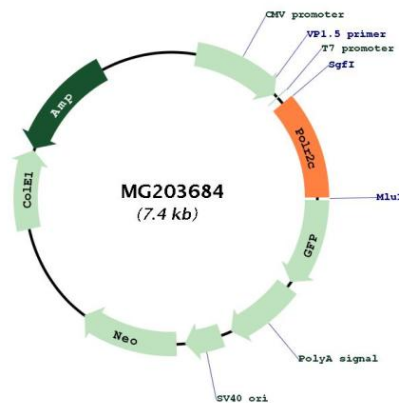
**RefSeq ORF:** 827 bp

**Locus ID:** 20021

**Cytogenetics:** 8 C5

**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 MG203684