

Product datasheet for MR211691

Polr1b (NM_009086) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Polr1b (NM_009086) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Polr1b
Synonyms:	128kDa; D630020H17Rik; RPA2; RPA116; RPA135; Rpo1-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211691 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGTCGACGGCCGGTGGCGGAACCTGCCAGCGGGCCAGCCTAAAGCATTAAACCGACCCCTCGT
ACGGGATCCCCAGAGCAGCAAAGGCAGCTTTCAGGACCTGACGCGGGCGCACGTGGACTCCTTCAA
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CCAGAATCCTGGGGCTTCTCTGCCCTGTGCACACTCCAGACGGGGCGCCTTGTGGGCTGTTGAACCACT
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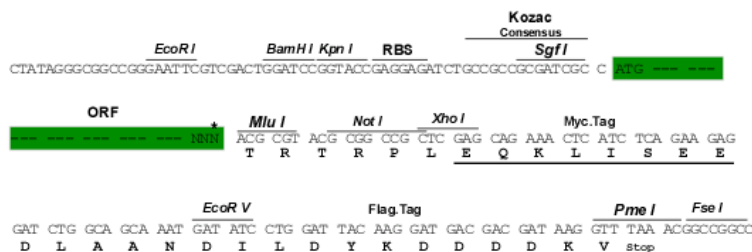
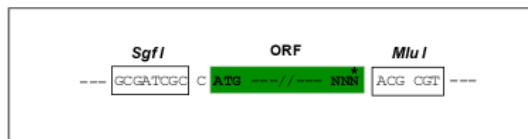
Protein Sequence: >MR211691 protein sequence
 Red=Cloning site Green=Tags(s)

MDVDGRWRNLPSPGSLKHLTDPSYGIPPEQQKAALQDLTRAHVDSFNYYAALEGLSHAVQAIPPFQAFKD
 ERISLTIIVDAVISPPSVPKGTICKDLNVYPAECRGRKSTYRGRLADISWAVNGVPKGIKQFLGYVPI
 VKSKLCNLNLPRLVIEHHEEAEMGGYFIINGIEKVIKRLVPRRNFPIAMVRPKWKSRLGTYQFQV
 SMRCVREEHSAVNMNLHYVENGTVMLNFIYRKELFFLPLGFALKALVSFSDYQIFQELIKGKEEDSFFRN
 SVSQMLRIVIEEGCHSQKQVLNYLGEFCFRVKLSLPDWYPNVEAAEFLLNQICIHLSQNTDKFYLLCLMT
 RKLFALARGECDNDPDSL VNQEVFSPGQLFLMFLKEKEMENWLSIKIVLKDRAQKANVSINNENLMIKIF
 SMGTELTRPFYLLATGNLRSKTLGFLQDGLCVVADKLNFLRYLSHFRCVHRGAFAKMRRTTTRRLL
 PESWGFLCPVHTPDGAPCGLLNHLTAVCEVTKFYVTASIPALLCGLGVTVPDTAPCRPYSDCYPVLLDG
 VMVGWVDKDLAPEVADTLRRFKVLREKRIPPWMEVALIPMTGKPSLYPGLFLLFTTPCRLVRPVQNLGLGR
 EELIGTMEQLFMNVAIFEDEVGGISTHQELFPHSLLSVIANFIPFSDHNQSPRNMYYCQMGKQTMGFPL
 LTYQNRSDNKL YRLQTPQSPLVRPCMYDFYDMNYP IGTNAIVAVISYTG YDMEDAMIVNKASWERGFAH
 GSVYKSEFIDLSEKFKQGEDNLVFGVKPGDPRVMQKLDLDDGLPIGAKLEYGDPYYSYLNLTGEGFVY
 YKSKENCVVNDIKVCSNDMGSGKFKCICITVRIIPRNPITGDKFASRHGQKILSRLWPAEDMPFTESGMM
 PDILFNPHGFP SRMTIGMLIESMAGKSAALHGLCHDATPFIFSENSALEYFGEMLKAAGYNYFYTGERLY
 SGISGMELEADIFIGVYYQRLRHMVSDKFQVVRTTGARDKVTNQPLGGRNVQGGIRFGEMERDALLAHGT
 SFLLHDLRNFNCSDRSVAHMCVECGSLLSPLLEKPPPSWSAMRNRKYNCTVCGRSDITDTSVPPYVFRYFV
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI
Cloning Scheme:

Cloning sites used for ORF Shuttling:

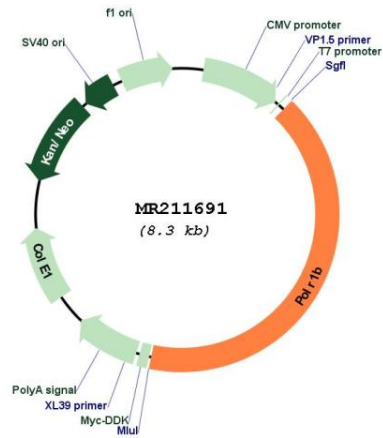


* The last codon before the Stop codon of the ORF

ACCN: NM_009086
ORF Size: 3408 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:	<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:	NM_009086.2 , NP_033112.2
RefSeq Size:	4017 bp
RefSeq ORF:	3408 bp
Locus ID:	20017
UniProt ID:	P70700
Cytogenetics:	2 F1
MW:	128.2 kDa
Gene Summary:	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Second largest core component of RNA polymerase I which synthesizes ribosomal RNA precursors. Proposed to contribute to the polymerase catalytic activity and forms the polymerase active center together with the largest subunit. Pol I is composed of mobile elements and RPA2 is part of the core element with the central large cleft and probably a clamp element that moves to open and close the cleft (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211691