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CN: techsupport@origene.cn

Product datasheet for MR211738

Polr2b (NM_153798) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Polr2b (NM_153798) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Polr2b
Synonyms:	Pol2rb; Rpb2; Rpb140
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR211738 representing NM_153798
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTATGACGCCGACGAGGACATGCAATATGATGAAGACGACGATGAGATCACTCCGGATCTGTGGCAGG
AAGCATGCTGGATCGTGATCAGTTCTTACTTTGATGAGAAAGGCTTGGTCAGACAACAGCTGGATTCCTT
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AGAGATGGCAAGCTAGCGAAGCCCAGACAGTTGCATAATACCTTGTGGGGAATGGTGTGTCCTGCTGAAA
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Protein Sequence:

>MR211738 representing NM_153798
Red=Cloning site Green=Tags(s)

MYDADEDMQYDEDDDEITPDLWQEACWIVISSYFDEKGLVRQQLDSFDEFIQMSVQRIVEDAPPIDLQAE
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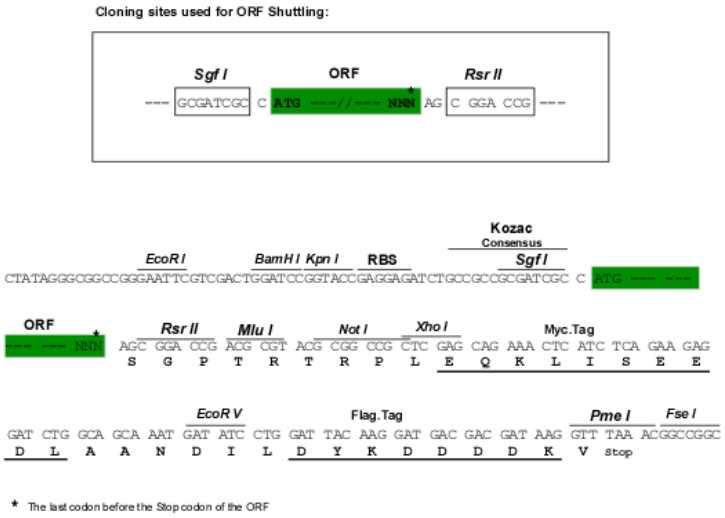
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9098_f12.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:

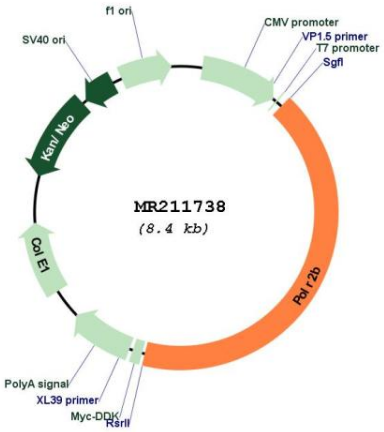


ACCN: NM_153798

ORF Size: 3525 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_153798.2, NP_722493.2
RefSeq Size:	3812 bp
RefSeq ORF:	3525 bp
Locus ID:	231329
UniProt ID:	Q8CFI7
Cytogenetics:	5 C3.3
MW:	133.9 kDa
Gene Summary:	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Second largest component of RNA polymerase II which synthesizes mRNA precursors and many functional non-coding RNAs. Proposed to contribute to the polymerase catalytic activity and forms the polymerase active center together with the largest subunit. 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. RPB2 is part of the core element with the central large cleft, the clamp element that moves to open and close the cleft and the jaws that are thought to grab the incoming DNA template (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211738