

Product datasheet for **RC200440**

RPB2 (POLR2B) (NM_000938) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPB2 (POLR2B) (NM_000938) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RPB2
Synonyms:	hRPB140; POL2RB; RPB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200440 representing NM_000938 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACGACGCGGATGAGGATATGCAATATGATGAGGATGATGATGAAATCACCCGGATTTGTGGCAAG
AAGCATGCTGGATTGTAATCAGTTCCTATTTTGACGAGAAAGGCTTGGTTAGACAACAGCTGGATTCTTT
TGATGAGTTTATTCAGATGTCTGTTCAAAGAATTGTGGAAGACGCTCCTCCTATAGACCTACAGGCTGAA
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CCAAGCCTACCCATTGGGAAAGAGATGGTCTCCTTCACCAATGATGCCCAATGAAGCTAGATTAAGGAA
TCTCACGTATTCTGCTCCGCTTTATGTTGATATAACAAAAACAGTCATTAAGAAGGTGAAGAACA
CAGACTCAGCATCAGAAAATTTTATAGAAAAATTCCAATTATGTTGCGGTCAACTTACTGCCTTTTGA
ATGGCTTGACAGATCGTGATCTTTGTGAGTTAAATGAATGCCCTTTGGATCCTGGTGGCTATTTTATTAT
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GACAGAGATATTTTGAACATATTTATGATTTTGAAGATCCAGAGATGATGGAAATGGTTAAACCTT
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AGAGACGGCAAGCTAGCAAAACCAAGACAGTTGCATAATACGTTGTGGGAATGGTGTGCTGCCGAGA
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CCCAGATTTCTTTGGTGCGAATGCCTTACGCATGCAAACTATTGTTTTCAGGAACCTATGTCTATGAGTAT
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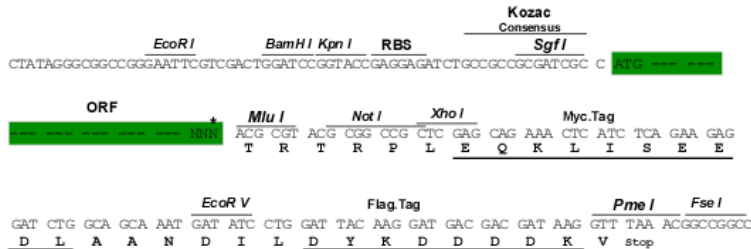
Protein Sequence: >RC200440 representing NM_000938
 Red=Cloning site Green=Tags(s)

MYDAEDEMQYDEDDDEITPDLWQEACWIVISSYFDEKGLVRQQLDSFDEFIQMSVQRIVEDAPPIDLQAE
 AQHASGEVEEPPRYLLKFEQIYLSKPTHWERDGA P S P M P N E A R L R N L T Y S A P L Y V D I T K T V I K E G E E Q L
 QTQHQTFTIGKIPIMLRSTYCLLNGLTDRDLCELNECLDPGGYFIINGSEKVLIAQEKMATNTVYVFAK
 KDSKYAYTGECSRLENSRPTSTIIVWSMLARGGQGA K K S A I G Q R I V A T L P Y I K Q E V P I I I V F R A L G F V S
 DRDILEHIYDFEDPEMMEMVKPSLDEAFVIQE Q N V A L N F I G S R G A K P G V T K E K R I K Y A K E V L Q K E M L P H
 V G V S D F C E T K K A Y F L G Y M V H R L L L A A L G R R E L D D R D H Y G N K R L D L A G P L L A F L F R G M F K N L L K E V R I Y A Q
 K F I D R G K D F N L E L A I K T R I I S D G L K Y S L A T G N W G D Q K K A H Q A R A G V S Q V L N R L T F A S T L S H L R R L N S P I G
 R D G K L A K P R Q L H N T L W G M V C P A E T P E G H A V G L V K N L A L M A Y I S V G S Q P S P I L E F L E E W S M E N L E E I S P A A
 I A D A T K I F V N G C W V G I H K D P E Q L M N T L R K L R R Q M D I I V S E V S M I R D I R E R E I R I Y T D A G R I C R P L L I V E K
 Q K L L L K K R H I D Q L K E R E Y N N Y S W Q D L V A S G V V E Y I D T L E E E T V M L A M T P D D L Q E K E V A Y C S T Y T H C E I H P
 S M I L G V C A S I I P F P D H N Q S P R N T Y Q S A M G K Q A M G V Y I T N F H V R M D T L A H V L Y P Q K P L V T T R S M E Y L R F R
 E L P A G I N S I V A I A S Y T G Y N Q E D S V I M N R S A V D R G F F R S V F Y R S Y K E Q E S K K G F D Q E E V F E K P T R E T C Q G M
 R H A I Y D K L D D D G L I A P G V R V S G D D V I I G K T V T L P E N E D E L E S T N R R Y T K R D C S T F L R T S E T G I V D Q V M V T
 L N Q E G Y K F C K I R V R S V R I P Q I G D K F A S R H G Q K G T C G I Q Y R Q E D M P F T C E G I T P D I I I N P H A I P S R M T I G H
 L I E C L Q G K V S A N K G E I G D A T P F N D A V N V Q K I S N L L S D Y G Y H L R G N E V L Y N G F T G R K I T S Q I F I G P T Y Y Q R
 L K H M V D D K I H S R A R G P I Q I L N R Q P M E G R S R D G G L R F G E M E R D C Q I A H G A A Q F L R E R L F E A S D P Y Q V H V C N
 L C G I M A I A N T R T H T Y E C R G C R N K T Q I S L V R M P Y A C K L L F Q E L M S M S I A P R M M S V

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI
Cloning Scheme:

Cloning sites used for ORF Shuttling:

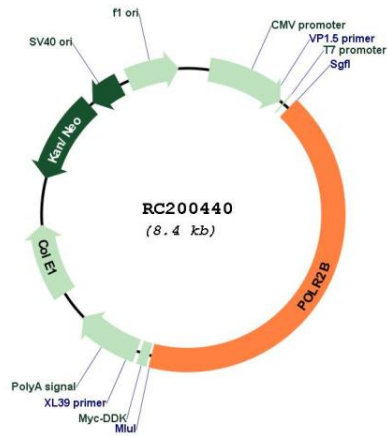


* The last codon before the Stop codon of the ORF

ACCN: NM_000938
ORF Size: 3522 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_000938.1 , NP_000929.1
RefSeq Size:	3748 bp
RefSeq ORF:	3525 bp
Locus ID:	5431
UniProt ID:	P30876
Cytogenetics:	4q12
Domains:	RNA_pol_Rpb2_6, RNA_pol_Rpb2_7, RNA_pol_Rpb2_2, RNA_pol_Rpb2_1, RNA_pol_Rpb2_3, RNA_pol_Rpb2_4, RNA_pol_Rpb2_5
Protein Families:	Transcription Factors
Protein Pathways:	Huntington's disease, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase
MW:	133.7 kDa
Gene Summary:	This gene encodes the second largest subunit of RNA polymerase II (Pol II), a DNA-dependent RNA polymerase that catalyzes the transcription of DNA into precursors of mRNA, snRNA and microRNA. This subunit and the largest subunit form opposite sides of the center cleft of Pol II. Deletion of the flap loop region of this subunit results in a decrease in the rate of transcriptional elongation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]

Product images:



Circular map for RC200440