

Product datasheet for **SC337856**

RPB2 (POLR2B) (NM_001303268) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPB2 (POLR2B) (NM_001303268) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR2B
Synonyms:	hRPB140; POL2RB; RPB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001303268, the custom clone sequence may differ by one or more nucleotides

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ATGCTGGATTGTAATCAGCCACGATATTTGCTGAAGTTTGAACAAATTTATCTTTCCAAGCCTACCCATT
GGGAAAGAGATGGTGCTCCTTCACCAATGATGCCCAATGAAGCTAGATTAAGGAATCTCAGTATTCTGC
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AAAACCTTTATAGGAAAAATCCAATTATGTTGCGGTCAACTTACTGCCTTTTGAATGGCTTGACAGATC
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GGTTCTGATTGCCAAGAGAAAAATGGCAACAAACACAGTTTATGTGTTTGCCAAAAAGGATTCTAAATAT
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TGCTGGCAAGAGGAGGACAGGGTGCCAAGAAGAGTGCTATTGGTCAGCGCATTGTGGCAACTCTACCATA
TATCAAGCAAGAAGTTCCCATCATTATTGTGTTTCAGAGCATTAGGTTTTGTGCCGACAGAGATATTTTA
GAACATATTTTATGATTTTGAAGATCCAGAGATGATGGAAATGGTTAAACCTTCTCTCGATGAAGCTT
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GGAATTTTGAAGAATGGAGTATGGAATTTAGAAGAAATTTCTCCTGCAGCTATTGCTGATGCAACC
AAGATTTTGTAAATGGCTGCTGGGTGGAATACATAAAGATCCCGAACAACCTATGAACACCCTAAGGA
AATTGAGACGTCAGATGGACATCATTGTGTCTGAAGTTTCTATGATCAGAGATATTCGAGAGAGGGAGAT

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TGGGATCTATACGGATGCAGGCCGATTTTGTAGACCACCTCTGATTGTGGAAAAACAAAAGCTACTTTTG
 AAGAAGAGGCATATTGACCAATTGAAAGAGAGAGAATATAACAACATATAGTTGGCAGGATCTTGTGGCCA
 GTGGGGTAGTGGAGTATATTGATACCCTGGAAGAAGAAACAGTGATGCTTGAATGACTCCAGATGATTT
 ACAGGAGAAAGAAGTAGCTTATTGTTCCACATATACACTGTGAGATTCATCCCTCAATGATCCTTGGT
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 GTAAGCAGGCTATGGGAGTTTACATCACCAACTCCATGTTCCGATGGACACATTGGCCCATGTTCTCTA
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 TAGCACTTTTCTCAGAACTAGCGAGACGGGCATTGTGGATCAGGTTATGGTAACTCTCAATCAGGAAGGA
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 ATGGTCAAAGGGTACTTGTGGTATTGATATAGACAAGAGGATATGCCTTTACCTGTGAAGGTATCAC
 CCCTGATATCATCATCAATCCCATGCCATCCCCTCTCGTATGACTATTGGTCACCTAATGAATGCCTT
 CAAGGGAAGGTATCGGCTAACAAGGGTGAATTTGGTGTGCCACTCCATTAATGATGCTGTTAACGTGC
 AGAAGATTTCTAATCTTTTATCTGATTATGGCTATCATCTCAGAGGAAATGAGGTCTGTACAATGGGTT
 CACTGGTCGAAAAATCACATCACAAATATTTATTGGCCCCACTTATTACCAGCGTTTGAAGCATATGGTG
 GATGATAAGATTCACTCTCGTGTAGGGGACCTATTGAGTCTCAATAGACAGCCCATGGAGGGTAGAT
 CTCGTGATGGTGGCTGCGTTTTGGAGAAATGGAACGAGATTGTCAGATTGCCATGGAGCAGCCAGTT
 TTTAAGGGAAGATTGTTTGGAGCATCAGATCCATATCAGGTTTCATGTTGCAATCTTTGTGGAATAATG
 GCGATTGCCAACACCAGGACCCATACATATGAATGCAGGGGCTGCCGAATAAAACCCAGATTTCTTTGG
 TCGGAATGCCTTACGCATGCAAACCTATTGTTTCAGGAACCTATGTCTATGAGTATTGCACCGCAATGAT
 GAGTGTTAG

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001303268
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_001303268.1](#), [NP_001290197.1](#)
- RefSeq Size:** 3911 bp
- RefSeq ORF:** 3300 bp
- Locus ID:** 5431

UniProt ID: [P30876](#)

Cytogenetics: 4q12

Protein Families: Transcription Factors

Protein Pathways: Huntington's disease, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase

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]
Transcript Variant: This variant (2) differs in the 5' UTR, lacks an alternate exon in the 5' coding region, and initiates translation at an alternate downstream start codon, compared to variant 1. This results in isoform 2, which is shorter and has a distinct N-terminus, compared to isoform 1.