

Product datasheet for **SC126714**

POLR2G (NM_002696) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR2G (NM_002696) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR2G
Synonyms:	hRPB19; hsRPB7; RPB7; RPB19
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC126714 sequence for NM_002696 edited (data generated by NextGen Sequencing)

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ATGTTCTACCATATCTCCCTAGAGCACGAAATCCTGCTGCACCCGCGCTACTTCGGCCCC
AACTTGCTCAACACGGTGAAGCAGAAGCTCTTACCGAGGTGGAGGGACCTGCACAGGG
AAGTATGGCTTTGTAATTGCTGTCAACCACCATTGACAATATTGGTGTGGTGTGATCCAG
CCAGGCCGAGGCTTTGTCTTTATCCAGTTAAGTACAAGGCCATTGTTTTCCGGCCATTT
AAAGGGGAGGTCGTGGATGCTGTTGTCACCTCAGGTCAACAAGGTTGGACTCTTCACAGAA
ATTGGGCCATGTCTTGCTTCATCTCTCGACATTCCATCCCTTCAGAGATGGAGTTTGAT
CCTAACTCCAACCCACCATGTTACAAGACAATGGATGAGGATATTGTGATTCAGCAGGAC
GATGAGATCCGCTTAAAGATTGTGGGGACCCGTGTGGACAAGAATGACATTTTTGCTATT
GGCTCCCTGATGGACGATTACTTGGGGCTTGTAAGCTGA
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Clone variation with respect to NM_002696.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002696 unedited TCAGATTTTGTAAATACGACTCACTATAGGGCGGCACGCGAATTCGCACCAAAGGACTGTC GGAGGTGTGGACTCTGCCTGCCTACCTGGTCTGGGAAGATGTTCTACCATATCTCCCTAT AGCACGAAATCCTGCTGCACCCGCGCTACTTCGGCCCCAACTTGCTCAACACGGTGAAGC AGAAGCTCTTCACCGAGGTGGAGGGGACCTGCACAGGGAAGTATGGCTTTGTAATTGCTG TCACCACCATTGACAATATTGGTGTGATCCAGCCAGGCCGAGGCTTTGTCCTTT ATCCAGTTAAGTACAAGCCATTGTTTTCCGGCCATTTAAAGGGGAAGTCGTGGATGCTG TTGTCACCTCAAGTCAACAAAGTTGGACTCTTACAGAAAATTGGGCCCATGTCTTGCTTCA TCTCTCGACATTCATCCCTTCAGAGATGGAGTTTGATCCTAACTCCAACCCACCATGTT ACAAGACAATGGATGATGATATTGTGATTCAGCAGGACGATGATATCCGCTTAAAGATTG TGGGGACCCGTGTGGACAAGAATGACATTTTTGCTATTGGCTCCCTGATGGACGATTACT TGGGGCTTGAAGCTGAGCCTGGTGGCCTCTACCCTGGTCTACTCTATGAAGTGTA TTGTCACACTTATCATGTTGCCATATGCCAGTCTGGCTGCTGTTGGATGCAATGAA TGCATCTCATCCATAATGCATCTGGTCTTCTGTAGCTAACTACTGNCNTNCTCATTNT TCAGTATGAGTTCTAGTAAAAAGNCCTGGNCTCTCAAAAAAAAAAAAAAAAAAAACC ACTCTAGATGCGGGCGCTCATAGCTGTTCTGACAGATCCAGGTAGCATCCTGTGACCC TCCCATGCCTCTCTGCCCTGAATTGCACTCATGCCACATCCTGTCTATAAATTATT
Restriction Sites:	NotI-NotI
ACCN:	NM_002696
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:	<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_002696.1 , NP_002687.1
RefSeq Size:	828 bp
RefSeq ORF:	519 bp
Locus ID:	5436
UniProt ID:	P62487
Cytogenetics:	11q12.3
Domains:	S1, RNA_pol_Rpb7_N
Protein Families:	Transcription Factors

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

Gene Summary: This gene encodes the seventh largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. The protein functions in transcription initiation, and is also thought to help stabilize transcribing polymerase molecules during elongation. [provided by RefSeq, Jan 2009]