

Product datasheet for **SC323888**

POLR3H (NM_001018050) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR3H (NM_001018050) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR3H
Synonyms:	C25; RPC8; RPC22.9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>>OriGene sequence for NM_001018050.1</p> <pre> CGGGGTCTCGCGCGCGGGCGCGCACCCGGAGCTGTGGACGGAGAGTGCCTCCCTCTGGC CTCAGTTTCCTCATGTTGTAGTAGCGGAGCATGGCCCGGACCGGGCCCCGAGACCGCCC CGTGCAACCTCACCGCCAGCCTGGGGGCTCAGCGACTGGGACGGACCAAGGGGCTCGG GGATTCTCCCTGCCCGCGCCCTGGTGCCTGACTGACCTCCTGTTCCAGAGCCCCAG CGCAGGCCGGGATGTTCTGCTCCTGGTGGAAATGGTGGACACCGTCCGGATCCCCCTTGGC AGTTTGAGAGGAAGCTCAACGACTCCATTGCCGAGGAGCTGAACAAGAAGTTGGCCAACA AGGTCGTGTACAACGTGGGACTCTGCATTTGTCTGTTTGATATCACAAACTGGAGGATG CCTATGTATTCCTGGGGATGGCGCATCACACCAAAGTCCATTTTCGCTGCGTGGTGT TTCATCCATTCTAGATGAGATTCTCATTGGGAAGATCAAAGGCTGCAGCCAGAAGGAG TGCACGTCTCTAGGCTTCTTCGATGACATTCTCATCCCCCAGAGTCACTGCAGCAGC CAGCCAAGTTCGACGAAGCGGAGCAGGTGTGGGTGTGGGAGTACGAGACGGAGGAAGGAG CACACGACCTCTACATGGACACCGGCGAGGAGATCCGCTTCCGGGTGGTGGACGAGAGCT TTGTTGACACGTCCCCACAGGGCCAGCTCAGCAGATGCCACCACTTCCAGTGAGGAGC TGCCAAAGAAGGAGGCTCCGTACACGCTTGTGGGATCCATCAGTGAGCCAGGCCTGGGCC TTCTCTCCTGGTGGACCAAGCACTAGCCCTGGGGCTGGACAGTGGACCCTACCAGCCTGC GGGAAGGTGGTATGGCCGGCTGTGAAGACAACAGCAGCTGAGGCCGATGCTAAGGAGATA GTGTCTCGAGCTGGACAGTGAGGCAAGGCCAGGAGTCCCACCAGCTTCCCCCGTCTCTC CACCATAGGCCCTGCTCCTCTCACTGCAGTGATGGATCCATCTGTGGCTGTGGCTG TTGGGCCTCCACTGACCTTGACTGAAAAGACCCTTCTGGACCCTGGACTTGACAACAAA CGGCACAGACACCAATCACTCACAGAACAGTCACTGGTTTTGGATTCTGTTTTCTTGC AAGAACAAAAGTTTCTCTAGAATCCTTCAGCCACCAATGAAATGATCAGGCAGGAGAAAA ACTTTAGATGGGAGTCTTGTCATCAAAAAATAATACAGTTGCATGGAAAAAAAAAAAAAA AAA </pre>
Restriction Sites:	ECoRI-NOT



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ACCN:	NM_001018050
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001018050.1</u> , <u>NP_001018060.1</u>
RefSeq Size:	4465 bp
RefSeq ORF:	615 bp
Locus ID:	171568
UniProt ID:	<u>Q9Y535</u>
Cytogenetics:	22q13.2
Protein Families:	Transcription Factors
Protein Pathways:	Cytosolic DNA-sensing pathway, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase
Gene Summary:	<p>DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific peripheric component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts, such as Epstein-Barr virus-encoded RNAs (EBERs) induce type I interferon and NF- Kappa-B through the RIG-I pathway (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 1. Variants 1, 3, 5, and 6 encode the same isoform (a).</p>