

Product datasheet for **SC111545**

POLR3H (NM_138338) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR3H (NM_138338) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR3H
Synonyms:	C25; RPC8; RPC22.9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111545 sequence for NM_138338 edited (data generated by NextGen Sequencing)

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ATGTTTCGTCTGGTGGAAATGGTGGACACCGTCCGGATCCCCCTTGGCAGTTTGAGAGG
AAGCTCAACGACTCCATTGCCGAGGAGCTGAACAAGAAGTTGGCCAACAAGGTCGTGTAC
AACGTGGGACTCTGCATTTGTCTGTTTGATATCACCAAAGTGGAGGATGCCTATGTATTC
CCTGGGGATGGCGCATCACACCAAAGTCCATTTTCGCTGCGTGGTGTTCATCCATTC
CTAGATGAGATTCTCATTGGGAAGATCAAAGGCTGCAGCCAGAAGGAGTGCACGTCTCT
CTAGGCTTCTTCGATGACATTCTCATCCCCCAGAGTCACTGCAGCAGCCAGCCAAGTTC
GACGAAGCGGAGCAGGTGTGGGTGTGGGAGTACGAGACGGAGGAAGGAGCACACGACCTC
TACATGGACACCGCGGAGGAGATCCGCTTCCGGGTGGTGGACGAGAGCTTTGTTGACAGC
TCCCCACAGGGCCAGCTCAGCAGATGCCACCACTTCCAGTGAGGAGCTGCCAAAGAAG
GAGGCTCCGTACACGCTTGTGGGATCCATCAGTGAGCCAGGCCTGGGCCTTCTCTCTGG
TGGACCAGCAACTAG
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Clone variation with respect to NM_138338.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_138338 unedited GTCCGAATATGTAATACGACTCACTATTAGGGCGGCCGGAATTCGCACGAGGGCGGGT CTCGCGGCGCGGGCGCGCACCCGNGACTGTGGACGGAGAGTGCCTCCCTCTGGCCTCAGT TTCCTCATGTTGTAGTAGCGGAGCATGGCCCGGACCGGGCCCCGAGACCGCCCCGTGCA ACCTCACCGCCAGCCTGGGGCCTCAGCGACTGGGACGGGACCAAGGGGCTCGGGGATTC TCCCTGCCCGGCCCCTGGTGCCTGACTGACCCCTCTGTTCCAGAGCCCCCAGCGCAGG CCGGGATGTTTCGTCTCTGGTGGAAATGGTGGACACCGTCCGGATCCCCCTTGGCAGTTTG AGAGGAAGCTCAACGACTCCATTGCCGAGGAGCTGAACAAGAAGTTGGCCAACAAGGTCG TGTACAACGTGGGACTCTGCATTGTCTGTTTATATACCAAAGTGGAGGATGCCTATG TATTCCCTGGGGATGGCGCATCACACACAAAGTCCATTTTCGCTGCGTGGTGTTCATC CATTCTAGATGAGATTCTCATTGGGAAGATCAAAGGCTGCAGCCAGAAGGAGTGCACG TCTCTTAGGCTTCTCGATGACATTCTCATCCCCCAGAGTCACTGCAGCAGCCAGCCA AGTTCGACGAAGCGGAGCAAGTGTGGGTGTGGGAGTACCAGACGGAGGAAGGAGCACACG ACCTCTACATGGACACCGCGGAGGAGATCCGCTTCCGGGTGGTGGACGAGAGCTTTGNTG ACACGTNCCCACAGNCCCAGCTCAGCAGATGCCACCCTTNCAGTGANGAGCTGCCAA AGAAAGAGCTNCGTACACGCTTTGTGGATCCATCAGTGAGCCAGGCCCTGGCCTTCTCT CTGGTGGACCCAGCACTAGCCCTGGNGGCTGNAAGTGAACCTACCACCTGCGGNAANGG TGTATGNCNGCATGGAAGACACGCACTGN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_138338 unedited GGGTTTTATTCTGTTTCAGGCTCCCTCTAAGTTTTCTCCTGCCTGATCATTTTCATTGGT GGCTGAAGGATTCTAGAGAACCTTTTGTCTTGAAGGAAAACAAGAATCCAAAACCAAGT GACTGTTCTGTGAGTGATTGGTGTCTGTGCCGTTTGTGTCAAGTCCAGGGTCCAGGAAG GGTCTTTTCAGTCAAGGTCAAGTGTTCCTCAACAGCCACAGCCACAGATGGATCCATCAC TGCAAGTGAAGGAGGAGCAGGGCCTAGATGGTGGAGGAGCGGGCAAGCTGGTGGGCACTC CTGGCCTTGCCTCACTGTCCAGCTCGAGACACTATCTCCTTAGCATCGGCCTCAGCTGCT GTTGTCTTACAGCCGGCCATACCACCTTCCCGCAGGCTGGTAGGGTCCACTGTCCAGCC CCAGGGCTAGTTGCTGGTCCACCAGGAGAGAAGGCCAGGCTGGCTCACTGATGGATCC CACAAGCGTGTACGGAGCCTCCTTCTTGGCAGCTCCTCACTGGAAGTGGTGGCATCTGC TGAGCTGGGCCCTGTGGGGGACGTGTCAACAAAGCTCTCGTCCACCACCCGGAAGCGGAT CTCTCGCCGGTGTCCATGTAGAGGTCTGTGCTCCTTCTCCGTCTCGTACTCCACAC CCACACCTGGCTCGCTTGTGCGAACTTGGCTGGCTGCTGCAAGTACTCTGGGGGATGAG AATGTATCGAAAGACCTAGAGAGACGTGCACTCCTTCTGGGCTGCAGCCTTTGATCCT TCCNATGAGGATCTCAATCTAGGAATGGATGAAACCCACGCCAGCGAAAATGGACTTTGG TGTGTGAGCGCCATCCCCAGGGATACATGGCCATCCTCAGTTTTGGGGAATCAAACAACA AATGCGCAGTCCACGTTTTACCGAACTTGGTGGGACCTTTCTGGTACCTCCTCGGCAT GGG</p>
Restriction Sites:	ECoRI-NOT
ACCN:	NM_138338
Insert Size:	1400 bp
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_138338.2 , NP_612211.1
RefSeq Size:	4159 bp
RefSeq ORF:	615 bp
Locus ID:	171568
UniProt ID:	Q9Y535
Cytogenetics:	22q13.2
Domains:	RNA_pol_Rpb7_N
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 (1) encodes the longer isoform (a). Variants 1, 3, 5, and 6 encode the same isoform (a).</p>