

Product datasheet for **SC106278**

POLR3H (BC017248) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR3H (BC017248) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR3H
Synonyms:	5031409G22Rik; polymerase (RNA) III (DNA directed) polypeptide H; RPC8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BC017248, the custom clone sequence may differ by one or more nucleotides

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ATGTTTCGTCTGGTGGAAATGGTGGACACCGTCCGGATCCCCCTTGGCAGTTTGGAGGAAGCTCAACG
ACTCCATTGCCGAGGAGCTGAACAAGAAGTTGGCCAACAAGGTCGTGTACAACGTGGGACTCTGCATTTG
TCTGTTTGATATCACAAACTGGAGGATGCCTATGTATTCCTGGGGATGGCGCATCACACCAAAAGTC
TCTCTAGGCTTCTCGATGACATTCTCATCCCCCAGAGTCACTGCAGCAGCCAGCCAAGTTCGACGAAG
CGGAGCAGGTGTGGGTGTGGGAGTACGAGACGGAGGAAGGAGCACACGACCTCTACATGGACACCGGCGA
GGAGATCCGCTTCCGGTGGTGGACGAGAGCTTTGTTGACACGTCCCCACAGGGCCAGCTCAGCAGAT
GCCACCACTTCCAGTGAGGAGCTGCCAAGAAGGAGGCTCCGTACACGCTTGTGGGATCCATCAGTGAGC
CAGGCCTGGGCCTTCTCTCCTGGTGGACCAGCAACTAG
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5' Read Nucleotide Sequence:

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>OriGene 5' read for BC017248 unedited
CACCAGGTGCGTGGTGCCTGGTGCCTGATACGAGCGCGGCACGTGGCGGGGTGCGGGG
CGTGGAGTGCGTGGCGTGGAGTGGCGTGGCGGGTCTCGCGGCAGGGCGCGCA
CCCGAGCTGTGGACGGAGAGTGCCTCCCTCTGGCCTCAGTTTCTCATGTTGTAGTAGC
GGAGCATGGCCCCGACCGGGCCCCGAGACCGCCCCGTGCAACCTCACCGCCAGCCTGGG
GGCCTCAGCGACTGGGACGGGACCAAGGGGCTCGGGATTCTCCCTGCCCGGGCCCTGG
TGCGTGACTGACCCTCCTGTTCCAGAGCCCCAGCGCAGGCCGGGATGTTGTCCTGGT
GGAAATGGTGGACACCGTCCGGATCCCCCTTGGCAGTTTGGAGGAAGCTCAACGACTC
CATTGCCGAGGAGCTGAACAAGAAGTTGGCCAACAAGGTCGTGTACAACGTGGGACTCTG
CATTGTCTGTTGATATCACAAACTGGAGGATGCCTATGTATTCCTGGGGATGGCGC
ATCACACCAAAAGTCCATTTTCGCTGCGTGGTGTTCATCCATTCCTAGATGAGATTCT
CATTGNGAAGATCAAAGGCTGCAGCCCAGAAGGAGTGCACGTCTCTCTAGGCTTCTCGA
TGACATTCTCATCCCCCAGAGTCACTGCAGCAGCC
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Gene Summary:

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]