

Product datasheet for **SC113682**

POLR3E (NM_018119) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	POLR3E
Synonyms:	C37; RPC5; SIN
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF:

>OriGene ORF within SC113682 sequence for NM_018119 edited (data generated by NextGen Sequencing)

ATGGCCAATGAAGAGGATGACCCAGTTGTACAGGAGATCGATGTGTAAGTGGCCAAGAGT
 CTGGCGGAAAAGCTGTATCTATTTTCAGTACCCTGTGCGTCCAGCCTCGATGACCTACGAT
 GACATTCGCGACCTCTCAGCCAAGATCAAGCCCAAGCAGCAGAAGGTAGAGCTTGAGATG
 GCCATCGACACCCTGAACCCCACTATTGCCGACGAAAGGGGAGCAGATTGCGCTGAAC
 GTGGACGGGCGCTGCGCCGACGAGACCAGCACGTATTCTCGAAGCTGATGGACAAGCAG
 ACCTTTCTGCTTTCCAGACCACCAGTAACACATCCCGTTATGCCGCTGCACTCTACAGG
 CAAGGTGAGCTCCACCTGACACCTTTACATGGCATCCTGCAGCTGCGGCCAGCTTCTCC
 TACCTGGATAAGGCTGACGCCAAGCACCAGGAGAGGGAGGCGGCCAACGAGGACGGGAC
 TCTTCACAGGATGAGGCGGAAGACGATGTTAAGCAGATCACGGTGCAGTTCTCCCGGCCG
 GAGTCAGAGCAGGCGCCGACGCGCGTGTGCAGTCTATGAGTTCTGCAGAAGAAGCAC
 GCAGAGGAGCCCTGGGTCCACCTGCATTACTATGGCCTGAGGGACAGTCGCTCTGAGCAT
 GAGCGTCAGTACCTGCTGTGCCCGGCTCAAGCGGGTGGAGAACACGGAGCTCGTCAAG
 TCACCCAGTGAGTACCTGATGATGCTGATGCCACCCAGCCAGGAGGAGGAGAAAGACAAG
 CCTGTGGCCCCCAGCAACGTCTGTGATGGCCAGCTGCGCACGCTGCCCTGGCCGAT
 CAGATCAAGATCCTGATGAAGAATGTGAAGGTGATGCCTTTTGCCAACTTGATGAGCCTC
 CTGGGCCCCCTCCATCGATTCCGTGGCTGTTCTGCGGGGATCCAGAAGGTGGCGATGTTG
 GTCCAAAGGAACTGGTGGTGAAGAGTGACATCCTATACCCCAAGGACTCGTCCAGCCCT
 CACAGCGCGTGCCTGCTGAGGTGCTCTGCAGGGGCCGAGACTTCGTTATGTGGAAGTTC
 ACGCAGAGCCGCTGGTGGTTAGGAAAGAGGTGGCAACCGTGACCAAACTCTGCGCCGAG
 GATGTGAAGGACTTCTGGAGCACATGGCCGTGGTGGAGTCAACAAGGCTGGGAGTTC
 ATTCTGCCTTATGATGGGAGTTTCATCAAGAAGCACCCGGATGTGGTCCAGCGGCAGCAC
 ATGCTGTGGACGGGTATCCAGGCCAACTGGAAAAAGTCTATAATCTTGTAAAGGAAACC
 ATGCCAAAGAAGCCGGATGCACAATCAGGGCCTGCCGGGCTGGTCTGTGGGGACAGCGG
 ATCCAAGTAGCCAAAACCAAGGCCAGCAGAACCACGCGTTGCTGGAGCGGGAGCTGCAG
 CGGCGGAAGGAGCAGCTGCGGGTGCCTGCGGTCCCGCCCGGTGTGCGGATCAAGGAGGAG
 CCCGTGAGCGAGGAGGGCGAGGAGGACGAGGAGCAGGAGGCGGAGGAGGAGCCATGGAC
 ACTTCCCCCAGCGGCTCCACAGCAAGCTGGCCAACGGGCTGCCTCTCGGGCGGGCTGCG
 GGCACAGACAGCTTCAACGGGCACCCGCCAGGGCTGCGCCAGCACCCCTGTGGCTCGG
 GAACTGAAGGCCTTCGTGGAGGCCACCTTTCAGAGACAGTTTGTGCTCACGCTGAGCGAA
 CTCAAGCGCCTCTTCAATCTGCACTTGGCCAGCCTGCCCCCGGCCACACACTTTACAGC
 GGCATCTCGGACCGCATGCTACAGGACACGGTGTGCGCCGCGGTGCAAGCAGATACTG
 GTGCCTTTTCCCCCAGACTGCTGCTTCCCCGGATGAGCAGAAGGTGTTTGCCTCTGG
 GAGTCTGGAGACATGAGTGATCAGCATCGACAGTTTTGCTTGAATTTTTTCCAAAAAT
 TACCGGGTACGCCGAAACATGATCCAGTCTCGGTTGACTCAAGAGTGTGGAGAAGATCTC
 AGTAAACAGGAGGTGGATAAAGTAAAGGACTGCTGTGAAGCTATGGTGGCATGTGG
 TACCTTAAAGGGACAGTACAGTCTTGA

Clone variation with respect to NM_018119.2

5' Read Nucleotide
Sequence:

>OriGene 5' read for NM_018119 unedited
 CATTTTGTAAATACGACTCACTATTAGGGCGGCCGCAATTTCGCACGAGGCTGAGAGGAGA
 GCCGGGCCGCCGCGTCTCTGCAGCCCGCGGGTAACTGGCCGTTGCCGCGTCCGCGCT
 CGGCCCCCGGAGAGATCGAGCTGAAGGACTGCGCGGCTGGCTCTCCTCTAGTATGGCC
 AATGAAGAGGATGACCCAGTTGTACAGGAGATCGATGTGTAAGTGGCCAAGAGTCTGGCG
 GAAAAGCTGTATCTATTTCAGTACCCTGTGCGTCCAGCCTCGATGACCTACGATGACATT
 CCGCACCTCTCAGCCAAGATCAAGCCCAAGCAGCAGAAGGTAGAGCTTGAGATGGCCATC
 GACACCCTGAACCCCACTATTGCCGAGCAAGGGGAGCAGATTGCGCTGAACGTGGAC
 GGGGCTGCGCCGACGAGACCAGCAGTATTCTCGAAGCTGATGGACAAGCAGACCTTC
 TGCTCTTCCAGACCACCAAGTAACACATCCCGTTATGCCGCTGCACTCTACAGGCAAGT
 GAGCTCCACCTGACACCTTTACATGGCATCCTGCAGCTGCGGCCAGCTTCTCCTACCTG
 GATAAGGCTGACGCCAAGCACCGGAGAGGGAGGCGGCCAAGCAGGCAAGGGGACTCTTCC
 CAGGATGAGGCGGAAGACGATGTTAAGCAGATCACGGCGCGTTTCTCCGCGCGGAGTCA
 GAGCAAGCCCGCCAGCGCCGTGTGAGTCCATGAGTCCCTGCCAAGAAGCACCCACAG
 GAGCCCTGGTCCACCTGCATTACTATGGCCCTGAGGGACAGTCTGCTGAGCATGAGCG
 TCAGTACCTGCTGTGCCCGCTCCAGCGGGCTGAGAACACGAACCTCGTAAGTCCCCAT
 GAGACCTGTTGATGCTGATGCCCCAGCCAGAAGTAGAGCAGGACAGCCCGTGCCCC

3' Read Nucleotide
Sequence:

>OriGene 3' read for NM_018119 unedited
 CCGCAATCTAAAGTCGAGTNTTTTTTTTTTTTTTTTTTTAGCTAAGAGTTTGCAATTA
 TTTTAAAAATACACAAAATAGAAATTTTTACATCAAAGTGTGATAAAGTCACTTACACAT
 TGTTCCATACTTACCTGGTTTTGTTTGCATCTTTCTGCAAACATTAAGGAGATGGATT
 TGATTCTGATTTTTTGTCTATGGTTCATGTAACAGTTGAGACTGCTACATAAAGTAAGT
 TGTGTCGAAAGGTGAAGTGGCCACAGAAATCCCAAGAATAGAATAATTTCAATTTGGTTAA
 TGAAATTTGGTGGAGGTCTTATCAGATAGATAATCCAAGACTAAATATTGTCTTCTAAGCA
 TTTTAAAAATTAAGAACTTTGAAGTTTTCTTCATGTTGTAACATAACTTAGACCTTGTT
 GGCATTAAGTTTACAAAAGAAATATTAACCATGATTTTTATCATCTGCCCATGTCAG
 TATACACTCTCTTTATTATGAGAATGAAACCAAATAAAGCAAAATACATCAGGAATTT
 CAAATTGTACTGCAAAGAAAGTCCCAGCTGGTCTCTTCTGGGAGTGATCTAACTAACTTA
 AGCTGACCCCTGTGACTGGCTGAAGATAATCCCTCTGTCCACTGCACCGTGCAATGCCAC
 AGGTCATGAGATGGTCAGTTCCTCTTGCTCTGTGTCGCTGAAGCAGTCGAGGCCCTACT
 TCTGTTCCGNCCTTCTTCTGGGCTANATTTGCTGGGTTAGTAGTTGCTCTATTGTGAGA
 CTGACTGTCCCTTTAAGTACACATGCCACCTAGCTACCAGCAGNCCTTATACTTATCCAC
 CTCTGTTACTGGATCTCTCCACCTCTTGAGTACCGAACTGATCATGTTTGGGTCCCCGA
 ATNTGGAAATTAAGCAAACTGCAAGCTATACTCTGTTCCGACTCCAAGGAAACCTT
 GTCATCGGGATG

Restriction Sites:

NotI-NotI

ACCN:

NM_018119

Insert Size:

3270 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_018119.2, NP_060589.1</u>
RefSeq Size:	2640 bp
RefSeq ORF:	2127 bp
Locus ID:	55718
UniProt ID:	<u>Q9NVU0</u>
Cytogenetics:	16p12.2
Domains:	Sin_N
Protein Families:	Transcription Factors
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. Essential for efficient transcription from both the type 2 VAI and type 3 U6 RNA polymerase III promoters. 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] Transcript Variant: This variant (1) encodes the longest isoform (1).