

Product datasheet for **SC332588**

POLR3E (NM_001258035) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR3E (NM_001258035) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR3E
Synonyms:	C37; RPC5; SIN
Vector:	pCMV6-Entry (PS100001)



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Fully Sequenced ORF: >SC332588 representing NM_001258035.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGACCTACGATGACATTCCGCACCTCTCAGCCAAGATCAAGCCCAAGCAGCAGAAGGTAGAGCTTGAG
 ATGGCCATCGACACCTGAACCCCACTATTGCCGAGCAAAGGGGAGCAGATTGCGCTGAACGTGGAC
 GGGCCCTGCGCCGACGAGACCAGCAGTATTCTCGAAGCTGATGGACAAGCAGACCTTCTGCTCTTCC
 CAGACCACAGTAACACATCCCCTTATGCCGCTGCACTCTACAGGCAAGGTGAGCTCCACCTGACACCT
 TTACATGGCATCCTGCAGCTGCGGCCAGCTTCTCTACCTGGATAAGGCTGACGCCAAGCACCGGGAG
 AGGGAGGCGGCCAACGAGGCAGGGGACTCTTACAGGATGAGGCGGAAGACGATGTTAAGCAGATCACG
 GTGCGGTTCTCCCGCCGGAGTCAGAGCAGGCCCGCCAGCGCCGTGTGCAGTCTATGAGTCTCTGCAG
 AAGAAGCAGCAGAGGAGCCCTGGGTCCACCTGCATTACTATGGCTGAGGGACAGTCGCTCTGAGCAT
 GAGCGTCAGTACCTGCTGTGCCCGGCTCAAGCGGGTGGAGAACACGGAGCTCGTCAAGTACCCAGT
 GAGTACCTGATGATGCTGATGCCACCCAGCCAGGAGGAGAGAAAGACAAGCCTGTGGCCCCAGCAAC
 GTCCTGTCGATGGCCAGCTGCGCAGCTGCCCTGGCCGATCAGATCAAGATCCTGATGAAGAATGTG
 AAGGTCATGCCTTTTGCCAATTGATGAGCCTCCTGGGCCCTCCATCGATTCCGTGGCTGTTCTGCGG
 GGCATCCAGAAGGTGGCGATGTTGGTCCAAGGGAAGTGGGTGGTGAAGAGTGACATCCTATACCCCAAG
 GACTCGTCCAGCCCTCACAGCGCGTGCCTGCTGAGGTGCTCTGCAGGGGCCGAGACTTCGTTATGTGG
 AAGTTCACGCAGAGCCGCTGGGTGGTTAGGAAAGAGGTGGCAACCGTGACCAAACTCTGCGCCGAGGAT
 GTGAAGGACTTCTGGAGCAGATGGCCGTGGTGAGGATCAACAAAGGCTGGGAGTTTCTGCTTAT
 GATGGGGAGTTTCAAGAAGCAGCCGGATGTGGTCCAGCGGCAGCACATGCTGTGGACGGGTATCCAG
 GCCAACTGGAAGAGTCTATAATCTTGTAAAGGAAACCATGCCAAAGAGCCGGATGCACAATCAGGG
 CCTGCCGGGCTGGTCTGTGGGGACAGCGGATCCAAGTAGCCAAAACCAAGGCCAGCAGAACACGCG
 TTGCTGGAGCGGGAGCTGCAGCGCGGAAGGAGCAGCTGCGGGTGCCTGCGGTCCCGCCCGGTGTGCGG
 ATCAAGGAGGAGCCCGTGAGCGAGGAGGCGAGGAGGACGAGGAGCAGGAGGCGGAGGAGGAGGCCATG
 GACACTTCCCCAGCGGCTCCACAGCAAGCTGGCCAACGGGCTGCCTCTCGGGCGGGCTGCGGGCACA
 GACAGCTTCAACGGGCACCCGCCAGGGCTGCGCCAGCACCCCTGTGGCTCGGGAAGTGAAGGCCTTC
 GTGGAGGCCACCTTTCAGAGACAGTTTGTGCTCAGCTGAGCGAAGTCAAGCGCCTCTTCAATCTGCAC
 TTGGCCAGCCTGCCCCCGGCCACACACTCTTACGCGCATCTCGGACCGCATGTACAGGACACGGTG
 CTGGCCCGGTTGCAAGCAGATACTGGTGCCTTTTCCCCCAGACTGCTGCTTCCCGGATGAGCAG
 AAGGTGTTTGCCTCTGGGAGTCTGGAGACATGAGTGATCAGCATCGACAGGTTTGTCTGAAATTTT
 TCCAAAATTACCGGTACGCCGAAACATGATCCAGTCTCGGTTGACTCAAGAGTGTGGAGAAGATCTC
 AGTAAACAGGAGGTGGATAAAGTACTAAAGGACTGCTGTGTAAGCTATGGTGGCATGTGGTACCTTAA
 GGGACAGTACAGTCTGA

Restriction Sites: Sgfl-NotI

ACCN: NM_001258035

Insert Size: 2019 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.

RefSeq: [NM_001258035.1](#)

RefSeq Size: 3671 bp

RefSeq ORF: 2019 bp

Locus ID: 55718

UniProt ID: [Q9NVU0](#)

Cytogenetics: 16p12.2

Protein Families: Transcription Factors

MW: 75.8 kDa

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 (3) lacks an exon in the 5' region compared to variant 1, which results in translation initiation from an in-frame downstream AUG, and an isoform (3) with a shorter N-terminus compared to isoform 1.