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Product datasheet for SC332587

POLR3E (NM_001258034) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR3E (NM_001258034) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR3E
Synonyms:	C37; RPC5; SIN
Vector:	pCMV6-Entry (PS100001)

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Fully Sequenced ORF:

>SC332587 representing NM_001258034.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGCCAATGAAGAGGATGACCCAGTTGTACAGGAGATCAAGCCCAAGCAGCAGAAGGTAGAGCTTGAG
ATGGCCATCGACACCCTGAACCCCAACTATTGCCGCAGCAAAGGGGAGCAGATTGCGCTGAACGTGGAC
GGGGCCTGCGCCGACGAGACCAGCACGTATTCCTCGAAGCTGATGGACAAGCAGACCTTCTGCTCTTCC
CAGACCACCAGTAACACATCCCGTTATGCCGCTGCACTCTACAGGCAAGGTGAGCTCCACCTGACACCT
TTACATGGCATCCTGCAGCTGCGGCCCAGCTTCTCCTACCTGGATAAGGCTGACGCCAAGCACCGGGAG
AGGGAGGCGGCCAACGAGGCAGGGGACTCTTCACAGGATGAGGCGGAAGACGATGTTAAGCAGATCACG
GTGCGGTTCTCCCGGCCGGAGTCAGAGCAGGCCCGCCAGCGCCGTGTGCAGTCCTATGAGTTCCTGCAG
AAGAAGCACGCAGAGGAGCCCTGGGTCCACCTGCATTACTATGGCCTGAGGGACAGTCGCTCTGAGCAT
GAGCGTCAGTACCTGCTGTGCCCCGGCTCAAGCGGGGTGGAGAACACGGAGCTCGTCAAGTCACCCAGT
GAGTACCTGATGATGCTGATGCCACCCAGCCAGGAGGAGGAGAAAGACAAGCCTGTGGCCCCCAGCAAC
GTCCTGTCGATGGCCCAGCTGCGCACGCTGCCCCTGGCCGATCAGATCAAGATCCTGATGAAGAATGTG
AAGGTCATGCCTTTTGCCAACTTGATGAGCCTCCTGGGCCCCTCCATCGATTCCGTGGCTGTTCTGCGG
GGCATCCAGAAGGTGGCGATGTTGGTCCAAGGGAACTGGGTGGTGAAGAGTGACATCCTATACCCCAAG
GACTCGTCCAGCCCTCACAGCGGCGTGCCTGCTGAGGTGCTCTGCAGGGGCCGAGACTTCGTTATGTGG
AAGTTCACGCAGAGCCGCTGGGTGGTTAGGAAAGAGGTGGCAACCGTGACCAAACTCTGCGCCGAGGAT
GTGAAGGACTTCCTGGAGCACATGGCCGTGGTGAGGATCAACAAAGGCTGGGAGTTCATTCTGCCTTAT
GATGGGGAGTTCATCAAGAAGCACCCGGATGTGGTCCAGCGGCAGCACATGCTGTGGACGGGTATCCAG
GCCAAACTGGAAAAAGTCTATAATCTTGTAAAGGAAACCATGCCAAAGAAGCCGGATGCACAATCAGGG
CCTGCCGGGCTGGTCTGTGGGGACCAGCGGATCCAAGTAGCCAAAACCAAGGCCCAGCAGAACCACGCG
TTGCTGGAGCGGGAGCTGCAGCGGCGGAAGGAGCAGCTGCGGGTGCCTGCGGTCCCGCCCGGTGTGCGG
ATCAAGGAGGAGCCCGTGAGCGAGGAGGGCGAGGAGGACGAGGAGCAGGAGGCGGAGGAGGAGCCCATG
GACACTTCCCCCAGCGGCCTCCACAGCAAGCTGGCCAACGGGCTGCCTCTCGGGCGGGCTGCGGGCACA
GACAGCTTCAACGGGCACCCGCCCCAGGGCTGCGCCAGCACCCCTGTGGCTCGGGAACTGAAGGCCTTC
GTGGAGGCCACCTTTCAGAGACAGTTTGTGCTCACGCTGAGCGAACTCAAGCGCCTCTTCAATCTGCAC
TTGGCCAGCCTGCCCCCCGGCCACACACTCTTCAGCGGCATCTCGGACCGCATGCTACAGGACACGGTG
CTGGCCGCCGGTTGCAAGCAGATACTGGTGCCTTTTCCCCCCCAGACTGCTGCTTCCCCGGATGAGCAG
AAGGTGTTTGCCCTCTGGGAGTCTGGAGACATGAGTGATCAGCATCGACAGGTTTTGCTTGAAATTTTT
TCCAAAAATTACCGGGTACGCCGAAACATGATCCAGTCTCGGTTGACTCAAGAGTGTGGAGAAGATCTC
AGTAAACAGGAGGTGGATAAAGTACTAAAGGACTGCTGTGTAAGCTATGGTGGCATGTGGTACCTTAAA
GGGACAGTACAGTCTTGA

Restriction Sites: SgfI-NotI

ACCN: NM_001258034

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_001258034.1
RefSeq Size:	3637 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 (4) lacks an exon and uses an alternate acceptor splice site in the 5' region compared to variant 1, However, it maintains the reading frame, and encodes an isoform (4) missing an internal protein segment compared to isoform 1.