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Product datasheet for SC332586

POLR3E (NM_001258033) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR3E (NM_001258033) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR3E
Synonyms:	C37; RPC5; SIN
Vector:	pCMV6-Entry (PS100001)

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Fully Sequenced ORF:

>SC332586 representing NM_001258033.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGCCAATGAAGAGGATGACCCAGTTGTACAGGAGATCGATGTGTACTTGGCCAAGAGTCTGGCGGAA
AAGCTGTATCTATTTCAGTACCCTGTGCGTCCAGCCTCGATGACCTACGATGACATTCCGCACCTCTCA
GCCAAGATCAAGCCCAAGCAGCAGAAGGTAGAGCTTGAGATGGCCATCGACACCCTGAACCCCAACTAT
TGCCGCAGCAAAGGGGAGCAGATTGCGCTGAACGTGGACGGGGCCTGCGCCGACGAGACCAGCACGTAT
TCCTCGAAGCTGATGGACAAGCAGACCTTCTGCTCTTCCCAGACCACCAGTAACACATCCCGTTATGCC
GCTGCACTCTACAGGCAAGGTGAGCTCCACCTGACACCTTTACATGGCATCCTGCAGCTGCGGCCCAGC
TTCTCCTACCTGGATAAGGCTGACGCCAAGCACCGGGAGAGGGAGGCGGCCAACGAGGCAGGGGACTCT
TCACAGGATGAGGCGGAAGACGATGTTAAGCAGATCACGGTGCGGTTCTCCCGGCCGGAGTCAGAGCAG
GCCCGCCAGCGCCGTGTGCAGTCCTATGAGTTCCTGCAGAAGAAGCACGCAGAGGAGCCCTGGGTCCAC
CTGCATTACTATGGCCTGAGGGACAGTCGCTCTGAGCATGAGCGTCAGTACCTGCTGTGCCCCGGCTCA
AGCGGGGTGGAGAACACGGAGCTCGTCAAGTCACCCAGTGAGTACCTGATGATGCTGATGCCACCCAGC
CAGGAGGAGGAGAAAGACAAGCCTGTGGCCCCCAGCAACGTCCTGTCGATGGCCCAGCTGCGCACGCTG
CCCCTGGCCGATCAGATCAAGATCCTGATGAAGAATGTGAAGGTCATGCCTTTTGCCAACTTGATGAGC
CTCCTGGGCCCCTCCATCGATTCCGTGGCTGTTCTGCGGGGCATCCAGAAGGTGGCGATGTTGGTCCAA
GGGAACTGGGTGGTGAAGAGTGACATCCTATACCCCAAGGACTCGTCCAGCCCTCACAGCGGCGTGCCT
GCTGAGGTGCTCTGCAGGGGCCGAGACTTCGTTATGTGGAAGTTCACGCAGAGCCGCTGGGTGGTTAGG
AAAGAGGTGGCAACCGTGACCAAACTCTGCGCCGAGGATGTGAAGGACTTCCTGGAGCACATGGCCGTG
GTGAGGATCAACAAAGGCTGGGAGTTCATTCTGCCTTATGATGGGGAGTTCATCAAGAAGCACCCGGAT
GTGGTCCAGCGGCAGCACATGCTGTGGACGGGTATCCAGGCCAAACTGGAAAAAGTCTATAATCTTGTA
AAGGAAACCATGCCAAAGAAGCCGGATGCACAATCAGGGCCTGCCGGGCTGGTCTGTGGGGACCAGCGG
ATCCAAGTAGCCAAAACCAAGGCCCAGCAGAACCACGCGTTGCTGGAGCGGGAGCTGCAGCGGCGGAAG
GAGCAGCTGCGGGTGCCTGCGGTCCCGCCCGGTGTGCGGATCAAGGAGGAGCCCGTGAGCGAGGAGGGC
GAGGAGGACGAGGAGCAGGAGGCGGAGGAGGAGCCCATGGACACTTCCCCCAGCGGCCTCCACAGCAAG
CTGGCCAACGGGCTGCCTCTCGGGCGGGCTGCGGGCACAGACAGCTTCAACGGGCACCCGCCCCAGGGC
TGCGCCAGCACCCCTGTGGCTCGGGAACTGAAGGCCTTCGTGGAGGCCACCTTTCAGAGACAGTTTGTG
CTCACGCTGAGCGAACTCAAGCGCCTCTTCAATCTGCACTTGGCCAGCCTGCCCCCCGGCCACACACTC
TTCAGCGGCATCTCGGACCGCATGCTACAGGACACGGTGCTGGCCGCCGGTTGCAAGCAGATACTGGTG
CCTTTTCCCCCCCAGACTGCTGCTTCCCCGGATGAGCAGAAGGTGTTTGCCCTCTGGGAGTCTGGAGAC
ATGAGTGATCAGTCTCGGTTGACTCAAGAGTGTGGAGAAGATCTCAGTAAACAGGAGGTGGATAAAGTA
CTAAAGGACTGCTGTGTAAGCTATGGTGGCATGTGGTACCTTAAAGGGACAGTACAGTCTTGA

Restriction Sites: SgfI-NotI

ACCN: NM_001258033

Insert Size: 2064 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_001258033.1
RefSeq Size:	3682 bp
RefSeq ORF:	2064 bp
Locus ID:	55718
UniProt ID:	Q9NVU0
Cytogenetics:	16p12.2
Protein Families:	Transcription Factors
MW:	77.2 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 (2) uses an alternate in-frame acceptor splice site in the 3' coding region compared to variant 1. The resulting isoform (2) is shorter, missing an internal protein segment, compared to isoform 1.