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Product datasheet for SC319449

POLR2E (NM_002695) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR2E (NM_002695) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR2E
Synonyms:	hRPB25; hsRPB5; RPABC1; RPB5; XAP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_002695.2 GGCGGCGGCGGCGGAGGCTGCCATGGACGACGAGGAGGAGACGTACCGGCTCTGGAAAAT CCGCAAGACCATCATGCAGCTGTGCCACGACCGTGGCTATCTGGTGACCCAGGACGAGCT TGACCAGACCCTGGAGGAGTTCAAAGCCCAATTTGGGGACAAGCCGAGTGAGGGGCGGCC GCGGCGCACGGACCTCACCGTGCTGGTGGCCCACAACGATGACCCCACCGACCAGATGTT TGTGTTCTTTCCAGAGGAGCCCAAGGTGGGCATCAAGACCATCAAGGTGTACTGCCAGCG CATGCAGGAGGAGAACATCACACGGGCTCTCATCGTGGTGCAGCAGGGCATGACACCCTC CGCCAAGCAGTCCCTGGTCGACATGGCCCCCAAGTACATCCTGGAGCAGTTTCTGCAGCA GGAGCTGCTCATCAACATCACGGAGCACGAGCTAGTCCCTGAGCACGTCGTCATGACCAA GGAGGAGGTGACAGAGCTGCTGGCCCGATATAAGCTCCGAGAGAACCAGCTGCCCAGGAT CCAGGCGGGGGACCCTGTGGCGCGCTACTTTGGGATAAAGCGTGGGCAGGTGGTGAAGAT CATCCGGCCCAGTGAGACGGCTGGCAGGTACATCACCTACCGGCTGGTGCAGTAGCTACC GCCTGACAGCCCCTAGAGGCGGACACACAGCGACCCCCATCCCTGCAGGACAAACGCCCC TGCCCTGCCAGAATCCGGCCCCCACAGCTCTCACGGCTGCTGCTCCTCTGGACTCCCCAA GGCAGGTGGCCTCCACCCACGTTCTCCCGTCCTGGGGTGAGGCTTCCTGTGGCCCAGCCC GCCCCATTCACCTGTGGATTTGTGCGAGATGCAGCCTCAGAAGGAACAAGGCCCCCAGAG GGAGGTCACCTGGGGGCAGCTGGTGCCGGGTCTTCACCCAGACCACGCTGGGTCCCCTCT GTTGGGGGTTTGGGGTCCGGGTCTCCCACCAGCCACTGCTTCCTCCTGGGCCCTCGGCCT TCCACCCCTCGTCTTCCCTCCCTCGGGGGCCCTGATGCGTGGCGGCCCCCACCCGGCCTC GGCTCTTTACTCCATTCACAGCCGTGCACGCGCTCAAGCCACCAGGGTGCGAGATGCCAG CTCTGGAGTTCTCGGTTGTTGTAGGAGGTTGGGTGTTTTCAAATGGTAAAGATGTTTTGA GCAAATAAATTTGCTTGATACAGAAAAAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	Please inquire
ACCN:	NM_002695

View online »

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_002695.2, NP_002686.2
RefSeq Size:	1238 bp
RefSeq ORF:	633 bp
Locus ID:	5434
UniProt ID:	P19388
Cytogenetics:	19p13.3
Domains:	RNA_pol_Rpb5_C, RNA_pol_Rpb5_N
Protein Families:	Transcription Factors
Protein Pathways:	Huntington's disease, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase
Gene Summary:	This gene encodes the fifth largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This subunit is shared by the other two DNA-directed RNA polymerases and is present in two-fold molar excess over the other polymerase subunits. An interaction between this subunit and a hepatitis virus transactivating protein has been demonstrated, suggesting that interaction between transcriptional activators and the polymerase can occur through this subunit. A pseudogene is located on chromosome 11. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Oct 2015] Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.