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Product datasheet for SC114310

POLR3K (NM_016310) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLR3K (NM_016310) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLR3K
Synonyms:	C11; C11-RNP3; HLD21; My010; RPC10; RPC11; RPC12.5
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_016310 edited ATGCTGCTGTTCTGCCCCGGCTGCGGGAACGGGCTGATCGTGGAGGAGGGACAACGCTGC CACCGCTTCGCCTGCAACACGTGCCCCTACGTGCACAACATCACCCGCAAGGTAACAAAT CGGAAGTACCCAAAACTGAAAGAAGTGGATGATGTGCTTGGTGGAGCAGCTGCCTGGGAG AATGTTGACTCTACTGCAGAGTCGTGTCCCAAATGCGAACATCCTCGTGCTTACTTCATG CAGCTTCAGACCCGCTCTGCAGATGAGCCGATGACCACCTTCTACAAGTGCTGCAATGCT CAGTGTGGACACCGCTGGAGGGATTAG
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_016310 unedited AATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCTGCCGGGAGTTGGAGCCT GCGGAGTTCGAGACCATGCTGCTGTTCTGCCCCGGCTGCGGGAACGGGCTGATCGTGGAG GAGGGACAACGCTGCCACCGCTTCGCCTGCAACACGTGCCCCTACGTGCACAACATCACC CGCAAGGTAACAAATCGGAAGTACCCAAAACTGAAAGAAGTGGATGATGTGCTTGGTGGA GCAGCTGCCTGGGAGAATGTTGACTCTACTGCAGAGTCGTGTCCCAAATGCGAACATCCT CGTGCTTACTTCATGCAGCTTCAGACCCGCTCTGCAGATGAGCCGATGACCACCTTCTAC AAGTGCTGCAATGCTCAGTGTGGACACCGCTGGAGGGATTAGGGCCAGGATGGCCCAGCT GCCCTAGTGTGTGCTTGCCTTGTCCCTCGGGGTAGATGCTTAGCTGGCAGTATGAGTCGT GTGTCCTGAGGGTCTTTGCTAGTGTGGTGGAAAGATAAACCTTTTGAGGTGAAGAGCCAG GGGGTCAGGAAATATGGCCTATCTGCCAGGCAGGGTGGATGAAGTCATGAATGTCTGGGA GTTTTTCTGTGTGGGGAGGAGACAGAGACCCATAACTAAATATGCTCTGTGTAAAGTCCT ATTCTTTCATCTTCCACTNTATTGGCAGTTGACATTCCCTTACTCCCAATCAACACTCTT AAATATTTGTACTGTTTGTAAAACTTAGTACATGTCCCCTAATATTTANNANNANNANNN NNNNNNANANNAAAACTCGACTCTAGATTGCGCCGCGTCATAGCTGTTCCTGACAGATCC GGNTGCATCCTGTGACCCTNCCAGTGCTCTCTGGCCTGAAGTGCACTCAGTGCACCANCT GNCTATAAAATAGTGCATATTGCTGACTAGGCTATATTTGAGGGGGGGGGTG

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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016310 unedited
GTCCGAGGCCGCTTTCTANATCGAGNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAA
TATTTAGGGACATGTACTAAGTTTTACAAACAGTACAAATATTTAAAAGTGTTGATTGGG
AGTAAGGGAATGTCAACTGCCAATAAAGGGGAAGATGAAAGAATAGGACTTTACACAGAG
CATATTTAGTTATGGGTCTCTGTCTCCTCCCCACACAGAAAAACTCCCAGACATTCATGA
CTTCATCCACCCTGCCTGGCAAATAGGCCATATTTCCTGACCCCCTGGCTCTTCACCTCA
AAAGGTTTATCTTTCCACCACACTAGCAAAGACCCTCAGGACACACGACTCATACTGCCA
GCTAAGCATCTACCCCGAGGGACAAGGCAAGCACACACTAGGGCAGCTGGGCCATCCTGG
CCCTAATCCCTCCAGCGGTGTCCACACTGAGCATTGCAGCACTTGTAAAAGGTGGTCATC
GGCTCATCTGCAGAGCGGGTCTGAAGCTGCATGAAGTAAGCACGAGGATGTTCGCATTTG
GGACACGACTCTGCAGTAGAGTCAACATTCTCCCAGGCAGCTGCTCCACCAAGCACATCA
TCCACTTTTTTCAGTTTTGGGTACTTCCGATTTGTTACCTTGCGGGTGATGTTGTGCACG
TAGGGGCACGTGTTGCAGGCGAAGCGGTGGCAGCGTTGTCCCTCCTCCACGATCAGCCCG
TTCCCGCAGCCGGGGCAGAACAGCAGCATGGTCTCGAACTCCGCAGGCTCCAACTCCCGG
CAGCCTTGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATTCTGACGGT
TCACTAAACGAGCTCTGCTTTATAGACCTCCACCGTACACGCCTACCGCCATTTGGGTCA
ACGGGCGGGGTTATACGACATTTGGGAAGTCCGT

Restriction Sites: NotI-NotI

ACCN: NM_016310

Insert Size: 820 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_016310.2, NP_057394.1

RefSeq Size: 796 bp

RefSeq ORF: 327 bp

Locus ID: 51728

UniProt ID: Q9Y2Y1

Cytogenetics: 16p13.3

Domains: TFIIS, RNA_POL_M_15KD

Protein Families: Transcription Factors

Protein Pathways: Cytosolic DNA-sensing pathway, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase

Gene Summary: This gene encodes a small essential subunit of RNA polymerase III, the polymerase responsible for synthesizing transfer and small ribosomal RNAs in eukaryotes. The carboxy-terminal domain of this subunit shares a high degree of sequence similarity to the carboxy-terminal domain of an RNA polymerase II elongation factor. This similarity in sequence is supported by functional studies showing that this subunit is required for proper pausing and termination during transcription. Pseudogenes of this gene are found on chromosomes 13 and 17.[provided by RefSeq, Jul 2010]