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Product datasheet for SC108865

POLE4 (NM_019896) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLE4 (NM_019896) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLE4
Synonyms:	p12; YHHQ1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_019896, the custom clone sequence may differ by one or more nucleotides

ATGGCGGCGGCGGCGGCAGGAAGCGGGACGCCCCGAGAGGAGGAGGGACCTGCTGGGGAGGCAGCGG
CCTCGCAGCCCCAGGCCCCAACGAGTGTGCCTGGGGCTCGTCTCTCGAGGTTGCCTCTGGCGCGAGTGAA
GGCCTTGGTGAAGGCAGATCCCGACGTGACGCTAGCGGGACAGGAAGCCATCTTCATTCTGGCACGAGCC
GCGGAACTGTTTGTGGAGACCATTGCAAAAGATGCCTACTGTTGCGCTCAGCAGGGAAAAAGGAAAACCC
TTCAGAGGAGAGACTTGGATAATGCAATAGAAGCTGTGGATGAATTTGCTTTTCTGGAAGGTACTTTAGA
TTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_019896 unedited
GGGTCAGGATTAGTATACGATTACTATAGGCGGCCGCGCAATTCGCACGAGGCGCAGCAC
GTCTCAAGCCGGGATGGCGGCGGCGGCGGCGGCAGGAAGCGGGACGCCCCGAGAGGAGGA
GGGACCTGCTGGGGAGGCAGCGGCCTCGCAGCCCCAGGCCCCAACGAGTGTGCCTGGGGC
TCGTCTCTCGAGGTTGCCTCTGGCGCGAGTGTTTGCCTTGGTGAAGGCAGATCCCGACGT
GACGCTAGCGGGACAGGAAGCCATCTTCATTCTGGCACGAGCCGCGGAACCTGTTTGTGG
AGACCATTGCAAAAGATGCCTACTGTTGCGCTCAGCAGGGAAAAAGGAAAACCCTTCAGA
GGAGAGACTTGGATAATGCAATAGAAGCTGTGGATGAATTTGCTTTTCTGGAAGGTACTT
TAGATTGATTGCCGAGCGGGGCAGTTTTGTGAGCCTTCATCTGAAGCCTTCAGTTCACCC
CTCTGCACAGGCCTCAGCTTTGAAGAACGGAGTCTTTGCACTTACACACACTCTTCCTGT
TCTGCCTTCACCTATGCCGGGATAAGCAGAGATCTCATCAATTAGCTCTTCTCTGCAAGG
TCTTCCACTGTTTCTGTCTGTCTTCCATATCAAGCCCTGGATGCAGCTGCTGCTGCTTAC
AGCAGAGATGAAGAAAGTGTTCTGCATAAGTGGCTTCCTTGATGATGACGACCAGAATAA
AGGTTTTTGATCCACCCTCAAAAAAAAAACAAAAACTCGACTCTAAATTGCGGCCGCGTC
ACTAGTTGTTTCCTGAACAGATCCCGGGTGGCATTCCTGTGACCCCTCCCCAATGCCTCT
CCTTGGCCTTGAAGTTGCCCCTCCTTGCCCACCACCCTGGGCCTAATAAATAAGTTGCAT
CAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_019896 unedited
ACCGCGGCCGCCGTCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGAGGTTGATCAAAAACC
TTTATTCTGGTCCTCATCATTCAGGAAGCCACTTATGCAGAACACTTTCTTCATCTCTGC
TCTAAGCAGCAGCAGCTGCATCCAGGCTTGATATGGAAGACAGACAGAAACAGTGGAAGA
CCTTGCAGAGAAGAGCTAATTGATGAGATCTCTGCTTATCCCGGCATAGGTGAAGGCAGA
ACAGGAAGAGTGTGTGTAAGTGCAAAGACTCCGTTCTTCAAAGCTGAGGCCTGTGCAGAG
GGGTGAACTGAAGGCTTCAGATGAAGGCTCACAAAACTGCCCCGCTCGGCAATCAATCTA
AAGTACCTTCCAGAAAAGCAAATTCATCCACAGCTTCTATTGCATTATCCAAGTCTCTCC
TCTGAAGGGTTTTCCTTTTTCCCTGCTGAGCGCAACAGTAGGCATCTTTTGCAATGGTCT
CCACAAACAGTTCCGCGGCTCGTGCCAGAATGAAGATGGCTTCCTGTCCCGCTAGCGTCA
CGTCGGGATCTGCCTTCACCAAGGCCTTCACTCGCGCCCAGAGGCAACCTCGAGAGACGA
GCCCCAGGCACACTCGTTGGGGCCTGGGGCTGCGAGGCCGCTGCCTCCCAGCAGGGTCCT
CCTCCTCTCGGGGCGTCCCGGTTTCTGGCGGCGCCGCCGGCGGCATTCCGGGCTTTGAGC
GTGCTTGGGCCTCGTGCCGAATTCCGGGGCCGCCCTTTATTTGAGTTGTATTACAAAAAT
TTGACGGTTCACTAAACAAACTTTGGTTTTTAGAACTTCCACGGTCACCCCTACGGCCTT
TTGGTTAACGGGGCGGGGGTTATTACCACACTTGGGACACCCCGCTGATTTTGGGCCAAA
AAAAACTCCCTTTGG

Restriction Sites: NotI-NotI

ACCN: NM_019896

Insert Size: 680 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_019896.2, NP_063949.2
RefSeq Size:	710 bp
RefSeq ORF:	354 bp
Locus ID:	56655
UniProt ID:	Q9NR33
Cytogenetics:	2p12
Domains:	CBFD_NFYB_HMF
Protein Pathways:	Base excision repair, DNA replication, Metabolic pathways, Nucleotide excision repair, Purine metabolism, Pyrimidine metabolism
Gene Summary:	POLE4 is a histone-fold protein that interacts with other histone-fold proteins to bind DNA in a sequence-independent manner. These histone-fold protein dimers combine within larger enzymatic complexes for DNA transcription, replication, and packaging.[supplied by OMIM, Apr 2004]