

Product datasheet for **SC110978**

PLK1 (NM_005030) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLK1 (NM_005030) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLK1
Synonyms:	PLK; STPK13
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005030, the custom clone sequence may differ by one or more nucleotides

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ATGAGTGTCTGCAGTACTGCAGGGAAGCTGGCACGGGCACCGCCGACCCTGGGAAAGCCGGGTCCCCG
GAGTTGCAGCTCCCGGAGCTCCGGCGGGCGCTCCACCGGCGAAAGAGATCCCGGAGGTCTAGTGGACCC
ACGCAGCCGGCGCGCTATGTGCGGGGCGCTTTTGGGCAAGGGCGGCTTTGCCAAGTCTTCGAGATC
TCGGACGCGGACACCAAGGAGGTTCGCGGGCAAGATTGTGCCTAAGTCTCTGCTGCTCAAGCCGCACC
AGAGGGAGAAGATGTCCATGAAATATCCATTCACCGCAGCCTCGCCACCAGCAGCTCGTAGGATTCCA
CGGCTTTTTCGAGGACAACGACTTCGTGTTGTTGGAGCTCTGCCGCGGAGGTCTCTCCTGGAG
CTGCACAAGAGGAGGAAAGCCCTGACTGAGCCTGAGGCCGATACTACCTACGGCAAATTGTGCTTGGCT
GCCAGTACTGCACCGAAACCGAGTTATTCATCGAGACCTCAAGCTGGGCAACCTTTTCTGAATGAAGA
TCTGGAGGTGAAATAGGGGATTTGGACTGGCAACCAAGTGAATATGACGGGAGAGGAAGAAGACC
CTGTGTGGGACTCCTAATTACATAGCTCCCGAGGTGCTGAGCAAGAAAGGGCACAGTTTCGAGGTGGATG
TGTGGTCCATTGGGTGTATCATGTATACCTTGTTAGTGGGCAAACACCTTTTGGACTTCTTGCCTAAA
AGAGACCTACCTCCGGATCAAGAAGAATGAATACAGTATCCCAAGCACATCAACCCCGTGGCCGCTCC
CTCATCCAGAAGATGCTTCAGACAGATCCCACTGCCCGCCCAACCATTAACGAGCTGCTTAATGACGAGT
TCTTTACTTCTGGCTATATCCCTGCCGCTCTCCCATCACCTGCCTGACCATTCCACCAAGGTTTTCGAT
TGCTCCAGCAGCCTGGACCCGCAACCGGAAGCCCTCACAGTCTCAATAAAGGCTTGGAGAACCC
CTGCCTGAGCGTCCCGGGAAAAAGAAGAACAGTGGTTTCGAGAGACAGGTGAGGTGGTTCGACTGCCACC
TCAGTGACATGCTGCAGCAGCTGCACAGTGTCAATGCCTCAAGCCCTCGGAGCGTGGGCTGGTCAAGCA
AGAGGAGGTGAGGATCCTGCCTGCATCCCATCTTCTGGGTGAGCAAGTGGGTGGACTATTCGGACAAG
TACGGCCTTGGGTATCAGCTCTGTGATAACAGCGTGGGGTGTCTTCAATGACTCAACACGCGCTCATCC
TCTACAATGATGGTGACAGCCTGCAGTACATAGAGCGTGACGGCACTGAGTCTACCTCACCGTGAGTTC
CCATCCCAACTCCTTGATGAAGAAGATCACCTCCTTAAATATTTCCGCAATTACATGAGCGAGCACTTG
CTGAAGGCAGGTGCCAACATCACGCCGCGCAAGGTGATGAGCTCGCCCGGCTGCCCTACCTACGGACCT
GGTTCCGACCCCGCAGCGCCATCATCTGCACCTCAGCAACGGCAGCGTGCAGATCAACTTCTTCCAGGA
TCACACCAAGCTCATCTTGTGCCACTGATGGCAGCCGTGACCTACATCGACGAGAAGCGGGACTCCGC
ACATACCGCTGAGTCTCCTGGAGGAGTACGGCTGCTGCAAGGAGCTGGCCAGCCGGCTCCGCTACGCC
GCACTATGGTGGACAAGCTGCTGAGCTCACGCTCGCCAGCAACCGTCTCAAGGCCTCCTAA
    
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Restriction Sites: Please inquire

ACCN: NM_005030

Insert Size: 2300 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:	<ol style="list-style-type: none">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:	<u>NM_005030.3</u> , <u>NP_005021.2</u>
RefSeq Size:	2204 bp
RefSeq ORF:	1812 bp
Locus ID:	5347
UniProt ID:	<u>P53350</u>
Cytogenetics:	16p12.2
Domains:	pkinase, POLO_box, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation
Gene Summary:	The Ser/Thr protein kinase encoded by this gene belongs to the CDC5/Polo subfamily. It is highly expressed during mitosis and elevated levels are found in many different types of cancer. Depletion of this protein in cancer cells dramatically inhibited cell proliferation and induced apoptosis; hence, it is a target for cancer therapy. [provided by RefSeq, Sep 2015]