

Product datasheet for **MC205095**

Plk3 (NM_013807) Mouse Untagged Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Plk3 (NM_013807) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Plk3 |
| Synonyms: | Cn; Cnk; Fnk; PLK-3; PRK |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >BC063051
 AGCGTAGAGAAACCAGGCAGCGCCACGCGCGGGCCGGGGCCGGGCGGAACCGAGAACCAGCTCGGCAGGCG
 CTGCGCCGCGCGCTCCGCATGGAGCCCGCCGCGGCTTCTGTCTCCGCGCCCCTTCCCGCGCGCGGCTG
 CCCCCTCCGCGCCCCCGCGGCCCGGGGCGCCTGCCAATGCCTCCCGCGATCGGAACCTGAGGTGCT
 GGCCGGCCACGGGCGCCGGATCCTCCTGGTCGCTCATACCGACCCTCTCAGCGGCCGTACCTACACC
 AAGGGTCGCTTGTGGCAAGGGGGCTTCGCACGCTGCTATGAAGCCACTGACACCGAGTCTGGTATAG
 CCTACCGGTCAAAGTCATCCCACAGAGTCGCGTCGCCAAGCCGCATCAGCGCGAGAAGATCCTAAATGA
 GATAGAGTTGACCGAGACCTACAGCACCGCCATATCGTTTCGCTTTTACATCATTTCGAGGATGCTGAC
 AACATATACATTTTCTGGAGCTCTGTAGCCGAAAGTCCCTGGCCACATCTGGAAGGCCGACACACC
 TGTGGAAACCAGAGGTTTCGCTACTACCTGCGCCAGATCCTTTCTGGCCTCAAGTACTTGACCCAGAGGGG
 TATCTTACACAGAGATCTCAAGTGGGAAATTTTTTATCACGGATAACATGGAAGTGAAGTGGGGAT
 TTTGGGCTGGCAGCTCGATTAGAGCCCCAGAGCAGAGGAAAAAGACCATCTGTGGCACTCCCAACTACG
 TGGCTCCAGAAGTGTGCTGAGACAGGGCCATGGCCCCGAGGCAGATGTGTGGTCGCTTGGTTGTGTCAT
 GTACACGCTCCTGTGTGGGAGCCCCCATTTGAGACTGCTGACCTGAAGGAGACATACCCTGCATCAAG
 CAGGTTTATTACACGCTACTGCCAGCCTCTCCCTGCCTGCCCGCAGCTCCTGGCTGCCATCCTCCGAG
 CTTACCCAGAGACCGCCCTTCCATTGAACAGATTTTACGCCATGACTTCTTTACGAAGGCTACACCCC
 TGATCGGCTCCCGGTGAGCAGCTGTGTGACAGTCCCAGATCTGACACCCCCAACCTGCGAGGAGTCTG
 TTTGCCAAAGTTACCAAGAGCCTGTTTGGCAGGAAAAAGAACAAGAATAAGAACCATTCTGAGGACCAGG
 ATAATGTCTCCTGCTTGGTGAAGTGGCCTCATGCGCACATCCATCGGTATCCAGATGTCAGGCGGGAGGC
 TCCTGTAGTTTTCAGGCCAGGCCCTGCCAGCTTGGTAGAGACAGCTGCCGAGGACAGCTCGCCCCGTGGG
 AACTGGCCAGCAGTGGAGATGGGTTTGAAGAAGTTTACTGTGGCCACAGTGGTAGAGTCTGCCCTCT
 GTGCACTGAGAACTGTGTGGCTTTCATGCCCCAGCCGAACAGAACCAGCCCCGCTGGCACAGCCAGA
 GCCTCTGGTGTGGGTGAGCAAGTGGGTTGACTACTCCAACAAGTTTGGCTTTGGCTATCAGCTGTCCAGC
 CGCCGTGTAGCCGTGCTTCAATGATGGCACACACATGGCCCTGTCAGCCAATAGGAAGACGGTGCAT
 ACAACCCACAGCAGCAAGCACTTCTCCTTCCATGGGTTCTGTGCCCGAGCTCTGCAGCCTCAGCT
 GGGCATCTGCGGTATTTTGCCTTACATGGAACAGCACCTCATGAAGGGTGGAGATCTGCCAGTGTG
 GAAGAGGCGGAGGTGCCTGCCACCCTTGTGCTGCAGTGGGTCAAGACTGACCAGGCCCTCCTCATGC
 TGTTTCAAGTATGGCACTGTCCAGGTGAATTTACGGGGACCACGAAGCTGATCCTCAGTGGCTGGGA
 GCCTCTCCTTGTGACCTTGTGGCCGCAATCGCAGTGTGACTTACCTCGTTCACCTCCGGCAG
 CTGGGCTGCTCCCGAGCTTGGCCAGCAGTGCCTACGCTCTGCGCCTGCTCAGGACCAAAGCCCTG
 CTTAGGTTCCAACCTCGGAGAGCGGGCTGTGATCCAGATCTGGGCTGAGCCTGAAAGGCTTCAGGGCCT
 TGCTTTGTGGCCCTTCTGTCCCTTGTGTGCCTCACTGGGGCTCCTGGCTGAATCCCCCAGGGAATC
 AGGGACCAGCTTTACTACAGTCGGGGATGGCCTGCCCTCCTGAATCTTACCCTTCTCTGAGATAAGC
 CTGAGCCTTAGCTCCCAGCTAGGGGGCATTATTTATGGACCATTATTTATTTAATACAGACATTTATTTA
 TTGGGATGTGAGCCCCAGGGGGCTCCTCCTGGGGTAATAAACCGTTTTTTTTCAGAAAAAAAAAAAAAAAA
 AA
 AA

Restriction Sites: Ascl-NotI

ACCN: NM_013807

Insert Size: 1947 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: [BC063051](#), [AAH63051](#)

RefSeq Size: 2474 bp

RefSeq ORF: 1947 bp

Locus ID: 12795

Cytogenetics: 4 D1

Gene Summary: This gene encodes a member of the highly conserved polo-like kinase family of serine/threonine kinases. Members of this family are characterized by an amino-terminal catalytic domain and a carboxy-terminal bipartite polo box domain that functions as a substrate-binding motif and a cellular localization signal. Polo-like kinases have primarily been implicated in cell cycle regulation. In mouse, this protein that has been reported to localize to the nucleolus during interphase but is undetectable during mitosis, following nucleolus dissociation during prophase. The protein relocates to the nucleolus just prior to cytokinesis and peak levels are detected during G1 of interphase. This gene has been implicated in regulation of entry into S phase, with RNAi-induced depletion resulting in failure to re-enter the cell cycle. Mice deficient for this gene exhibit increased weight and tumor development at advanced age. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).