

Product datasheet for **MR208102**

PIk3 (BC031180) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIk3 (BC031180) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIk3
Synonyms:	Fnk, PRK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208102 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCCGCCCGCGGTTCTTGTCTCCGCGCCCTTCCGCGCGGGTGCCTCCGCGCCCGCC
 CCGGCCCGGGCCGCTGCCAATGCCTCCCGCGATCGGAACCTGAGGTGCTGGCCGGGCCACGGCGCC
 GGATCCTCCTGGTCGCTCATCACCGACCTCTCAGCGGCGTACCTACCCAAGGGTCGCTTGTGGGC
 AAGGGGGCTTCGCACGCTGCTATGAAGCCACTGACACCGAGTCTGGTATAGCTACGCGGTCAAAGTCA
 TCCCGCAGAGTCGCGTCCCAAGCCGATCAGCGCGAGAAGATCCTAAATGAGATAGAGTTGCACCGAGA
 CCTACAGCACCGCCATATCGTTCGCTTTTACATCATTTTCGAGGATGCTGACAACATATACATTTTCTG
 GAGCTCTGTAGCCGAAAGTCCCTGGCCACATCTGGAAGGCCGACACACCCTGTTGGAACCAGAGGTTT
 GCTACTACCTGCGCCAGATCCTTTCTGGCCTCAAGTACTTGACCCAGAGGGGTATCTTACACAGAGATCT
 CAAGCTGGGAAATTTTTTTCATCACGGATAACATGGAAGTGAAGGTGGGGATTTTGGGCTGCAGCTCGA
 TTAGAGCCCCAGAGCAGAGGAAAAAGACCATCTGTGGCACTCCCAACTACGTGGCTCCAGAAGTGTGTC
 TGAGACAGGGCCATGGCCCCGAGGCAGATGTGTGGTCTGGTTGTGTGTCATGTACACGCTCCTGTGTGG
 GAGCCCCCATTTGAGACTGCTGACCTGAAGGAGACATACCGCTGCATCAAGCAGTTTATTACACGCTA
 CCTGCCAGCCTCTCCCTGCCTGCCCGCAGCTCCTGGCTGCCATCCTCCGAGCTTACCCAGAGACCGCC
 CTTCCATTGAACAGATTTTACGCCATGACTTCTTTACGAAGGGTACACCCCTGATCGGCTCCAGTCAG
 CAGCTGTGTGACAGTCCAGATCTGACACCCCAACCTGCGAGGAGTCTGTTTGCCAAAGTTACCAAG
 AGCCTGTTTGGCAGGAAAAAGAACAAGAATAAGAACCATTCTGAGGACCAGGATAATGTCTCCTGCTTGG
 TGAGTGGCCTCATGCGCACATCCATCGGTATCCAGATGTCAGGCCGAGGCTCCTGTAGTTTCAGGCCA
 GGCCCCCTGCCAGCTTGATAGAGACAGCTGCCGAGGACAGCTCGCCCCGTGGGACACTGGCCAGCAGTGA
 GATGGGTTTGAAGAAGGTTTACTGTGGCCACAGTGGTAGAGTCTGCCCTCTGTGCACTGAGAACTGTG
 TGGCCTTCATGCCCCAGCCGAACAGAACCAGCCCCACTGGCACAGCCAGAGCCTCTGGTGTGGGTGAG
 CAAGTGGGTTGACTACTCCAACAAGTTTGGCTTTGGCTATCAGCTGTCCAGCCGCGGTGTAGCCGTGCT
 TTCAATGATGGCACACACATGGCCCTGTAGCCAAATAGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208102 protein sequence
 Red=Cloning site Green=Tags(s)

MEPAAGFLSPRPFRAAAPSAPPAGPAPANASPRSEPEVLGAPRAPDPPGRLITDPLSGRTYTKGRLLG
 KGGFARCYEATDTESGIAYAVKVIPQSRVAKPHQREKILNEIELHRDLQHRHIVRFSHHFEDADNIYIFL
 ELCSRKSLAHIWKARHTLLEPEVRYLRQILSGLKYLHQGILHRDLKLGNNFITDNMELKVGDFGLAAR
 LEPPEQRKKTICGTPNYVAPEVLLRQGHGPEADVWSLGCVMYTLGSPPFETADLKETYRCIKQVHYTL
 PASLSLPARQLLAAILRASPRDRPSIEILRHDFFTKGYTPDRLPVSSCVTPDLTPPNPARSLFAKVTK
 SLFGRKKNKNKHSEDDQDNVSVGLMRTSIGHPDVRPEAPVVSQAPASLIETAAEDSSPRGTLASSG
 DGFEEGLTVATVVESALCALRNCVAFMPPAEQNPAPLAQPEPLVWVSKWVDYSNKFQYQLSSRRVAVL
 FNDGTHMALSANRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: BC031180

ORF Size: 1512 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

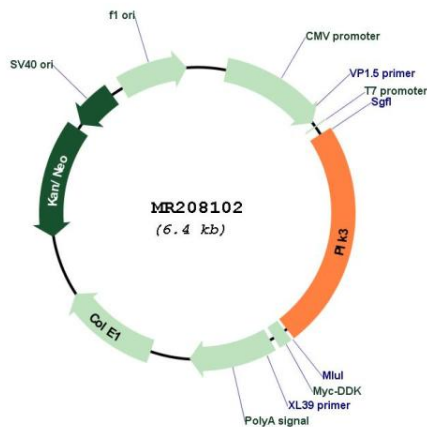
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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: [BC031180](#), [AAH31180](#)

RefSeq Size: 2648 bp
 RefSeq ORF: 1514 bp
 Locus ID: 12795
 Cytogenetics: 4 D1
 MW: 55.5 kDa

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]

Product images:



Circular map for MR208102