

Product datasheet for **RR211934**

PIk3 (NM_022187) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIk3 (NM_022187) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PIk3
Synonyms:	Cnk; Fnk
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide
Sequence:**

>RR211934 representing NM_022187
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCCGCCCGCGGTTCTTGTCCCGCGCCCTTCCCGCGCGGGTGCTCCGTCCTCGCCCCCG
 CCGGTCCGGGGCCGCCCGCAGTGCCTCCACCGTCCGAACCTGGGGTCTGGCCGGGCCACAGACGCC
 GGATGCCAGTCGCCTCATCACCGACCCTCGCAGCGGCCGTACCTACATCAAGGGTCGCTTGTGGCAAG
 GGGGGTTCGCTCGCTGCTATGAAGCCACTGACACTGAGACTAGTATAGCCTACGCGGTCAAAGTCATCC
 CGCAGAGTCGCGTCGCCAAGCCGCATCAGCGCAGAGAAGATCATAAACGAGATAGAGTTGCACCGAGACCT
 ACAGCACCGCCATATCGTTCGATTTTCGCATATTTTCGAGGATGCTGACAAATATATATTTTCTGGAG
 CTCTGTAGCCGAAAGTCCCTGGCCACATCTGGAAGGCCCGTACACCCTACTGGAACCAGAGGTTCTGCT
 ACTACCTGCGCCAGATTCTTTCTGGTCTCAAGTACTTGCACCAGAGGGGTATCTTGCACAGAGATCTCAA
 GCTGGGAAATTTTTTCATCACTGATAACATGGAAGTGAAGTGGGAGATTTTGGGCTGGCAGCTCGGCTA
 GAGCCTCCAGAGCAGAGGAAAAAGACCATCTGTGGTACTCCCAACTATGTGGCCCCAGAAGTGTGCTGA
 GGCAGGGCCATGGCCCCGAGGCAGATGTGTGGTCCCTTGGTTGTGTATGTACACACTCCTGTGTGGGAG
 CCCCCGTTTGAGACAGCTGACCTAAAGGAGACCTATCGCTGCATCAAGCAGGTTTATTACACACTGCCT
 GCCAGCCTCTCACTGCCTGCCCGCCAGCTCCTGGCTGCCATCCTTCGAGCTTACCCCCGAGACCGCCCTT
 CCATTGAGCAGATCCTGCGCCATGACTTCTTTACAAGGGCTACACCCCTGATCGGCTCCCTGTGACAG
 CTGTGTGACAGTCCAGATCTGACACCCCCAACCCCTGCGAGGAGTCTGTTTGTAAAGTTACCAAGAGC
 CTGTTTGGCAGGAGAAAGAGCAAGAATAAGAACCATTCTGAGGAACAGGATAATGTCTCCTGCTTGGTGA
 GCGGCCATGCGCACATCCATCGTTCATCCAGATGTCAGGCCGGAGGCTCCAGCAGCCTCAGCTCTGGC
 CCCTGTGAGCTTGGTAGAGACAGCTGCTGAGGACAGCTCACCCCGTGGGACACTGGCAAGCAGTGGAGAT
 GGATTTGAAGAAGTTTGACTGTGACCAGGTGGTGGAGTCTGCCCTCTGTGCACTGAGAAACTGTGTGG
 CCTTCATGCCCCAGCTGAACAGAACCCAGCCCCGTTGGCACAGCCAGAGCCTCTGGTGTGGGTGAGCAA
 GTGGGTTGACTACTCCAACAAGTTGGCTTTGGCTATCAGCTGTCCAGCCGCGTGTAGCCGTGCTCTTC
 AATGACGGCACACATGGCCCTGTGAGCAATAGGAAGACTGTGCACTACAACCCACCAGCAGCAAGC
 ACTTCTTTTCTGTGGGTTCTGTGCCCGTGTCTGCAGCCTCAGCTGGGCATCCTCCGGTATTTTCGC
 CTCCTACATGGAGCAGCACCTCATGAAGGGTGGAGATCTGCCAGTGTGGAGGAGGTAGAGGTCCTGCC
 CCACCTTGTGCTGCAGTGGGTCAAGACGGACCAGGCCCTTCTCATGCTGTTTCACTGACGGCACTGTCC
 AGGTGAACTTCTACGGGGACCATACGAAGCTGATCCTCAGTGGCTGGGAGCCTCTCCTCGTGACCTTCGT
 GGCCCGAAATCGCAGTGTGTTGACTTACCTCGCCTCCACCTCCGGCAGCTGGGCTGCTCCCGAGACTTG
 CGGCAGCGACTGCGCTATGCTCTGCGCCTGCTCAGGGACCGAAGCCCTGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211934 representing NM_022187
 Red=Cloning site Green=Tags(s)

MEPAAGFLSPRPFPRAAAPSSPPAGPGPPASAPRSEPGVLGAPQTPDASRLITDPRSGRTYIKGRLLGK
 GGFARCYEATDTETSIAYAVKVIPQSRVAKPHQREKIINEIELHRDLQHRHIVRFSHHFEDADNIYIFLE
 LCSRKSLAHIWKARHTLLEPEVRYLRQILSGLKYLHQRGILHRDLKLGNTFFITDNMELKVGDFGLAARL
 EPPEQRKKTICGTPNYVAPEVLLRQGHGPEADVWSLGCVMYTLGSPPFETADLKETYRCIKQVHYTLP
 ASLSLPARQLLAAILRASPRDRPSIEQILRHDFFTKGYTPDRLPVSSCVTPDLTPPNPARSLFAKVTKS
 LFGRRKSKNKNHSEEQDNVNSCLVSGLMRTSIGHPDVRPEAPAASALAPVSLVETAEDSSPRGTLASSGD
 GFEEGLTVTTVVESALCALRNCVAFMPPAEQNPAPLAQPEPLVWVSKWVDYSNKFQGYQLSSRRVAVLF
 NDGTHMALSANRKTVHYNPTSTKHFSSVGSVPRALQPQLGILRYFASYMEQHLMKGGDLPVVEEVEVPA
 PPLLLQWVKTDQALLMLFSDGTVQVNFYGDHTKLIILSGWEPLLVTFVARNRSACTYLASHLRQLGCSPDL
 RQRLRYALRLLRDRSPA

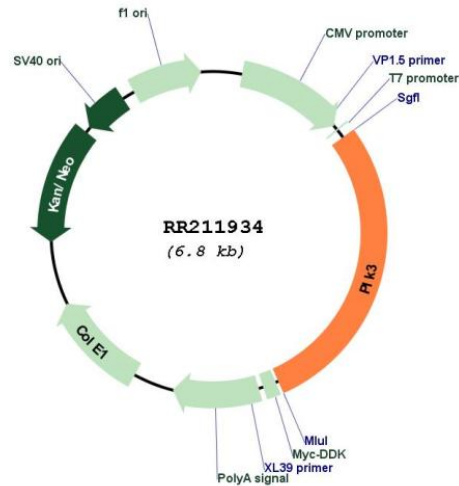
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_022187

ORF Size: 1941 bp

OTI Disclaimer: 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: [NM_022187.1](#), [NP_071523.1](#)

RefSeq Size: 2389 bp
RefSeq ORF: 1944 bp
Locus ID: 58936
UniProt ID: [Q9R011](#)
Cytogenetics: 5q36
MW: 71.8 kDa
Gene Summary: cell cycle associated kinase; may be involved in long-term synaptic plasticity [RGD, Feb 2006]