

Product datasheet for **RR217450**

Pik3ca (NM_133399) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pik3ca (NM_133399) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pik3ca
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR217450 representing NM_133399
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTCCACGACCATCTTCGGGTGAAGTGTGGGGCATCCACTTGATGCCCCACGAATCCTAGTGGAAAT
GTTTACTCCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCCACACTAGTCACCATCAAGCA
TGAAGTGTCAAAGAGGCCAGGAAATACCTCTCCATCAGCTTCTGCAAGATGAATCATCTTACATTTTC
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TTTTTCAACCCTTTTTAAAAGTAATTGAGCCAGTAGGCAACCGTGAAGAAAAGATCCTCAACCGAGAAAT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR217450 representing NM_133399
 Red=Cloning site Green=Tags(s)

MPPRPSSGELWGIHLMPPRILVECLLPNGMIVTLECLREATLVTIKHELKFEARKYPLHQLLQDESSYIF
 VSVTQEAEREFFDETRRLCDLRLFQPFVKVIEPVGNNREKILNREIGFVIGMPVCFDMVKDPEVQDFR
 RNILNVCKEAVDLRDLNSPHSRAMYVYPPNVESPELPHIYNKLDKGQIIVVIWVIVSPNNDKQKYTLK
 INHDCVPEQVIAEAIKTRSMLLSSEQLKLCVLEYQGYILKVCGCDEYFLEKYPLSQYKYIRSCIMLG
 RMPNLMLMAKESLYQLPIDSFTMPSYSRRIATPYMNGETATKSLWVINSALRIKILCATYVNVNIRD
 IDKIYVRTGIYHGGEPLCDNVNTQRVPCSNPRWNEWLNQDIYIPDLPRARLCLISVKGKRGAKKEHC
 PLAWGNINLFDYDTLVSGKMLNLWPVPHGLEDLLNPIGVTGSNPNETPCLELEFDWFSSVVKFPDMS
 VIEEHANWSVSREAGFSYHTGLSNRLARDNELRENDKEQLRALCTRDPLEITEQEKFDFLWSHRHYCVT
 IPEILPKLLL SVKWNRSRDEVAQMYCLVKDWPPKPEQAMELLDCNYPDPMVRSF AVRCLEKYL TDDKLSQ
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 HLNRRQVEAMEKLINLTDILKQEKDETQKVQMKFLVEQMRQPDFMDALQGFLSPLNPAHQLGNLRLIEECR
 IMSSAKRPLWLNWENPDIMSELLFQNEIIFKNGDDLQDMLTLQIIRIMENIWQNQGLDLRMLPYGCLS
 IGDCVGLIEVVRNSHTIMQIQCKGGLKALQFNSHTLHQWLKDKNKGEIYDAAIDLFTSCAGYCVATFI
 LGIGDRHNSNIMVKDDGQLFHIDFGHLDHKKKFGYKRERVPFVLTQDFLIVISKGAQEYTKTREFERF
 QEMCYKAYLAIRQHANLFINLFSMMLGSGMPELQSFDDIAYIRKTLALDKTEQEALEYFTKQMNDAHHGG
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

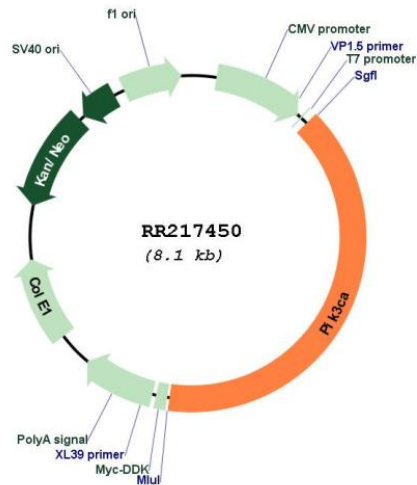
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_133399

ORF Size: 3204 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:	<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:	NM_133399.2 , NP_596890.2
RefSeq Size:	6435 bp
RefSeq ORF:	3207 bp
Locus ID:	170911
UniProt ID:	A0A0G2K344
Cytogenetics:	2q24
MW:	124.4 kDa
Gene Summary:	expression of the human homolog is associated with increased cell proliferation and decreased apoptosis and may play a role in ovarian cancer progression [RGD, Feb 2006]