

Product datasheet for **MR224587**

Pik3r6 (NM_001081566) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Pik3r6
Synonyms:	BB220380; p84; p84 PIKAP; p87; p87(PIKAP); p87PIKAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR224587 representing NM_001081566
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGAGCTCAGATGTGGAGCTGGACTTCCAGAGGAGTGTACAGGCTGTGCTGCGAGAGCTCAACACCC
 CAAACCCAGCCCTCCAGAGCAATCAGGGCATGTGGAGATGGTCTCTGCACAAGAAGGTGGAGAGAAACCC
 AGGAAAGAGCTCCATTCTGGTCCGAATTCTGCTCAGAGAGCTGGAGAAGGCAGAAAGCGAGGACGGACGC
 CGTGTATCATTCCTTCTGCTCACTCTAATGTCCGTGCTCACTAAGGCCACAGGCATCCAGAAGATC
 TGTACCATAGAGCTTATACCTTCTGCACAGGCTACTGACCTGCCGGCCCCCTACTCTACAGTCGCCTT
 GGACTGCGCCATAAGACTGAAAACAGAGACGGCTGTCCAGGTACGCTGTACCAGAGGACTGTATCGCT
 GAGCAGAATCTGATAAGTGAATAACCTTACCAGGAGAGGTGTTTCTGTTCTGGACCTGAGCTGG
 TTTCTGCCTCCGTGTGAGTGCCTGCTGCTGGAGATCCAGCGGCCCAAGAGCAGCAGACACGGAGGC
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 AGCAGGTGGCTAGCGAGGACAGCCCCAGCGGCTGGGACACCTGGAGAAGATGGAGGAGATTTACTGCTC
 GCTGCTAGGGCTGCGACCAAGAAGGCACTGTGTCGGTGACCTTCTGCAAGACCGCTGCCAAGCATC
 CCCCTGCCAGCCCTACATCACTTCCACCTTGGACCGACAGGAGCAGCTCTGGAAGGAAGTGGTAC
 TCTTCTCCGCCACGCTCGCAGCTGCGCCTCAGTGTGATCTGGATGCCTTGGATCTACAAGGATTTAG
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 GAGCTTCCGACCCAGCAGCTCTGAGATGGAGCGGGCCGCTTCAACGCAAGGGGGCATCAAGAAGC
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 CAGGCCCTAGTGGGACGGGGAGCTGTACCTGGAGTCTCTCGGGTGCATACCGCCCGCTGCTCGTTCTG
 GGGGATGACAGGATGCTAGGGCGCTTGGCCAGGCTTACTACAGACTCAGGAAACGGGAGACCAAGAAGT
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 CGTCAGCGCTCAATTCGACGGGCAGGAGACAGAGAAGAACATGGCCAAGCCCAATTCTTCTGATGCC
 CATCAACACATTCTCTGGCATCATCAA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224587 representing NM_001081566

Red=Cloning site Green=Tags(s)

MESSDVELDFQRSVQAVLRELNTPNPALQSNQGMWRWSLHKKVERNPGKSSILVRILLRELEKAESDGR
RVIIPLLLTLMSVLTKATGIPEDLYHRAYTFCTRLLTLPAPYSTVALDCAIRLKTETAVPGTLYQRTVIA
EQNLISELYPYQERVFLFVDPPELVASVCSALLLEIQAAEQQTPEACMRHVSHALQAALGEACHTGAL
NRKLQASSRRVLEYFHAVVAAIEQVASEDSPSRLGHLEKMEIYCSLLGPATRRHCVGDLQDRLPSI
PLPSPYITFHLWTDQEQWLKELVFLRPRSQLRLSADLDALDLQGFRLDRDLARVSTDSGIERDLPLGSD
ELPDPSSSEMERAAALQRKGGIKRVPDPDFMPGSGWDGPPGLHRRTRGRPSGDGELLPGVSRVHTARVLV
GDDRLMLGRLAQAYYRLRKRETKKFLTPRLSLQLYYIPVLAPQVTGQDPEASRKPELGELASFLGRVDPW
YESTVNTLCPAILKLAEMPPYLDTSRTVDPFILDVITYYVRMGTPQIYFQLYKVKIFTSLSHDPTEDIFL
TELKVKIQDSKSPKEGSSPRRRGAAEGTGAELSMCYQKALLSHRPREVTVSLRATGLVLKAIPAGDTEVS
GFFHCTSPNAASATDCSLHVSVEVVKSSNLAGRSFTTSTNTFTSSIQVQSQDQRLTLWLDKGRRT
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SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

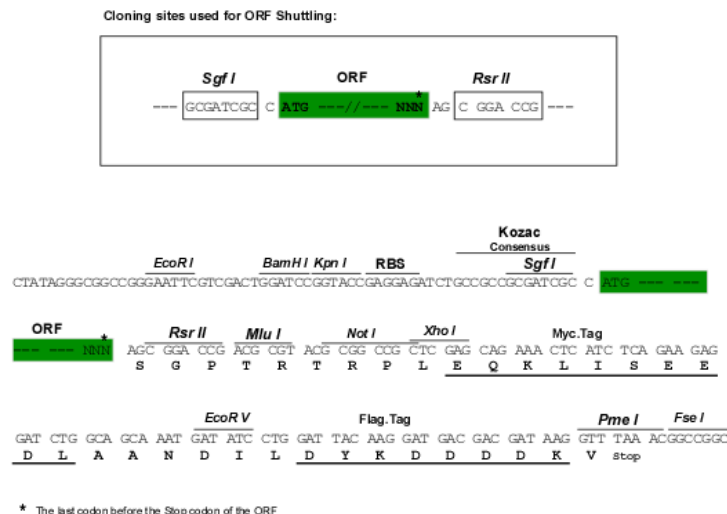
Chromatograms:

https://cdn.origene.com/chromatograms/mm9097_d05.zip

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN:

NM_001081566

ORF Size:

2268 bp

OTI Disclaimer:

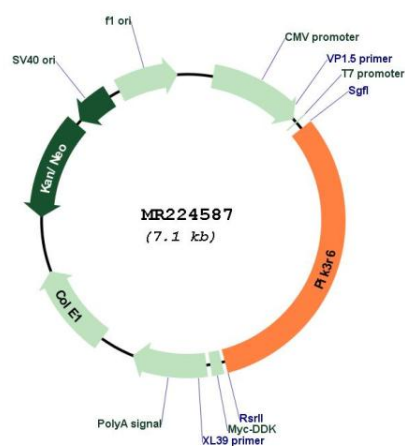
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001081566.2 , NP_001075035.1
RefSeq Size:	3238 bp
RefSeq ORF:	2271 bp
Locus ID:	104709
UniProt ID:	Q3U6Q4
Cytogenetics:	11 B3
MW:	84.7 kDa
Gene Summary:	Phosphoinositide 3-kinase gamma is a lipid kinase that produces the lipid second messenger phosphatidylinositol 3,4,5-trisphosphate. The kinase is composed of a catalytic subunit and one of several regulatory subunits, and is chiefly activated by G protein-coupled receptors. This gene encodes a regulatory subunit, and is distantly related to the phosphoinositide-3-kinase, regulatory subunit 5 gene which is located adjacent to this gene on chromosome 11. The protein binds to both the catalytic subunit and to G beta-gamma, and mediates activation of the kinase subunit downstream of G protein-coupled receptors. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Product images:



Circular map for MR224587