

Product datasheet for MR224971

Pik3r4 (NM_001081309) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pik3r4 (NM_001081309) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pik3r4
Synonyms:	2210010015Rik; C85833; C730038E05Rik; D9Ertd418e
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR224971 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

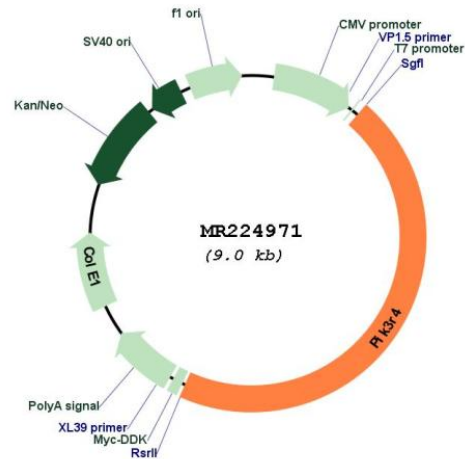
ATGGGAAATCAGCTGGCTGGTATCGCTCCTCCAGATCCTGTCTGTAGAGAGTTATTTCTCAGACATCC
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AGGCCTGGTGGTTGTGAAGGTCTTTGCAATTCAGGATCCACGTTACCCTTAAGTATAAACAGGAG
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CGTCTGAGAAAGCAGCCATGCTGTTCCGGCAGTATGTGAGAGACAACCTCTACGATCGCATCAGTACCCG
CCCCTTCTAAACAACATCGAGAAGCGCTGGATCGCCTTCCAGATCCTGACAGCCGTGGACCAAGCGCAC
AAATCTGGAGTCCGCCACGGAGACATCAAGACAGAGAAATGTGATGGTCACCCAGTTGGAAGTGGGTCTCC
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GAGTTAGAGTACATGAGAGACCCTCAACCCCGCTTGTGACCTGAATAGCAATCAGAGACACGGGGAG
AGCTGAAGAGAGCCATGGACATCTTTTCGGCAGGTTGCGTGATAGCTGAGCTTTTACGGAAGGCGTACC
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AGGAGGTAGATGAAGCCACGCGTCCTAACGGAGACTATGACACAGAGCTCCAGGCCTTGCATGAGATGGT
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TCCATGCACCCCCTGTACCAGTCTGGTAATCGCAGCTGTTCCAGGGCAACAATGAAGTCTCCATGTGGG
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TTCACCGCACAGCGTCCATGGCATCTACTGCAGCCCTGCAGATGGAAACCTATCCTGCTGACCGCTGGC
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GTTCCCGTCTGTCTCCTACTACAAGAAGATAATAGAAGGCACCGAGGTTGTCCAGGAAATTCAGAATAA
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AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Plasmid Map:


ACCN: NM_001081309

ORF Size: 4077 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_001081309.1](#), [NP_001074778.1](#)

RefSeq Size: 4884 bp

RefSeq ORF: 4077 bp

Locus ID: 75669

UniProt ID: [Q8VD65](#)

Cytogenetics: 9 56.79 cM

MW: 152.6 kDa

Gene Summary: Regulatory subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate; different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis. Involved in regulation of degradative endocytic trafficking and cytokinesis, probably in the context of PI3KC3-C2 (By similarity). [UniProtKB/Swiss-Prot Function]