

Product datasheet for **MR210937**

Pik3c3 (BC024675) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pik3c3 (BC024675) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pik3c3
Synonyms:	5330434F23, Vps34
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210937 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGGGAGGCGGAGAAGTTCCACTACATCTACAGCTGTGACCTGGACATCAACGTGCAGCTGAAGATAG
GGAGCTTGAAGGAAGAGAGAACAAAAGAGCTATAAAGCTGTCTAGAAAGATCCCATGTTAAAGTTTTTC
TGGGCTATACCAAGAGACATGCTCCGACCTCTATGTGACTTGTCAAGTGTTCGTAAGGGAAGCCCTG
GCCTTACCAGTCAGAACATCCTACAAGCGTTTTAGTACAAGATGGAATTGGAACGAGTGGCTGAACTTC
CTGTCAAGTACCCTGACCTGCCAGGAATGCCAAGTGGCCTTGACTATATGGGATGTGTATGGACCGGG
AAGCGCTGTGCCAGTGGGAGGAACAACCGTGTGCTCTTTGAAAATATGGCATGTTTCGCCAAGGAATG
CATGACTTGAAGTCTGGCTAACGTGGAGGCAGATGGTTCTGAACTACAAGAACTCCCGCAGAACAA
GCAGCACACTGTCAGAAGATCAGATGAGCCGCTCGCCAAGCTCACCAAGGCTCATCGCAAGGACACAT
GGTGAAAGTGGATTGGCTGGACAGATTAACATTTAGAGAGATAGAAATGATAAATGAGAGTGAGAAACGA
AGCTCTAATTTTCACTGACTTGATGGTTGAGTTTCGCTGTGTAAAGTGCAGTGACAAGGAGATGGCATTG
TTTACTATGAAAAGGATGGTGACGAATCATCTCCAATTTAACCAGTTTTGAGTTAGTAAAAGTTCTCTGA
TCCTCAAATGTCTATGGAGAATTTAGTGGAGAGCAAAACCCACAAGCTTGCTCGGAGCTTAAAGAGCGGA
CCATCTGACCACGATCTCAAACCAACGCTACCACAAGAGATCAGCTAAATATTATTGTGAGTTACCCAC
CAACCAAGCAACTCACATATGAAGAACAAGATCTTGTGGAAATTTAGATATTACTTACTAATCAAGA
AAAAGCTCTGACGAAGTCTTGAAGTGTGTTAATTGGGACCTGCCCCAGGAGGCCAAGCAGGCCCTGGAA
CTTCTGGGAAAGTGAAGCCAATGGATGTAGAGGACTCCCTGGAGCTGCTCTCTCTCATTACACCAACC
CCACCGTGAGGCGCTACGCTGTGGCCCGCTGAGCAGGCCGATGATGAGGATTTGCTGATGATCTACT
GCAGCTGGTCCAGGCTCTGAAATATGAAAACCTTGATGACATAAAGAATGGTTTGGAACTACGAAGAAG
GATAGTCAAACCTCAGCATCAGAAAGTCTGTCCAATTCGGAGTCAGTTCTGGAGACATAGATAGCTCCC
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GGAGAGTCTCGAGCAAGATCTATGTACGTTCTTGATATCAAGAGCCTGTAAGAACTCAACACTGGCTAAT
TATTTATACTGGTATGTGATAGTGGAGTGTGAAGATCAGGACACCAGCAGCGGGACCCAAAGACTCACG
AGATGTACCTGAACGTGATGAGGCGCTTACGCCAAGCCTTGCTCAAGGGTACAAGTCTGTGAGAGTCAT
GCGCTCCCTGCTGGCTGCTCAGCAGACCTTTGTAGATCGCCTGGTCCATCTGATGAAGGCAGTGCAGAGA
GAAAGTGGGAACCGCAAGAAGAAGAATGAGAGACTTCAGGCTTGCTTGGCGATAATGAGAAAATGAACT
TATCAGATGTGGAAGTATCCCATTGCCGCTGGAGCCACAGGTGAAAATAAGGGGCATCATCCCGGAAAC
AGCTACCCTGTTCAAGAGTGTCTTATGCCTGCCAGCTGTTCTTCAAGACTGAAGATGGAGGCAATAC
CCAGTTATTTTCAAGCATGGAGACGACTTGCGTCAAGATCAGCTTATTCTTCAAGATCATCTCCCTCATGG
ACAAGCTGTTACGGAAAGAAAACCTGGATTTGAAATTGACCCCATATAAGGTGTTAGCCACTAGCACAAA
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CCTTTTGTAAACAAAGACAGGCAAACTTCCATATAGATTTTCGGGTATATTTTGGGTCGAGATCCGAAG
CCCTCCCTCCTCCGATGAAGCTGAACAAGGAGATGGTGAAGGGATGGTGGCACCCAGAGTGAGCAAGT
ACCAAGAGTTCGAAAGCAGTGCTACACAGCCTTCTCCACCTGCGAAGGTATTCCAATCTGATCTTGAA
CTTGTCTCCTTGATGGTTGATGCAAACTTCCAGATATTGCTCTTGAACCAGATAAAAAGTAAAAAAG
ATATCCTGCCACAGAAAAATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210937 protein sequence
 Red=Cloning site Green=Tags(s)

MGEAEKFHYIYSCDLINVLKIGSLEGKREQKSYKAVLEDPMLKFSGLYQETCSDLVYTCQVFAEGKPL
 ALPVRTSYKAFSTRWNWNEWLKLVPKYKPDLPNAQVALTIWDVYGPASVAVVGGTTVSLFGKYGMFRQGM
 HDLKVWPVNEADGSEPTRTPGRTSSTLSEMQMSRLAKLTKAHRQGHMVKVDWLDRLTFREIEMINESEKR
 SSNFMYLMVEFRCVKCDDKEYGIVYVEKDGDESSPILTSFELVKVPDPQMSMENLVESKHHKLARSLRSG
 PSDHDLKPNATTRDQLNIIVSYPPTKQLTYEEQDLVWKFYYLTNQEKALTKFLKCVNWDLPQEAKQALE
 LLGKWKPMDEVDSLELLSSHYNPTVRRYAVARLRQADDEDLLMYLLQLVQALKYENFDDIKNGLEPTKK
 DSQTSASELSNSGVSSGDIDSSQIITNPLPPVAPPASKAKEVSDGESLEQDLCTFLISRACKNSTLAN
 YLYWYVIVECEDQDTQQRDPKTHEMYLNMRRFSQALLKGDKSVRVMRSLAAQQTVDRLVHLMKAVQR
 ESGNRKKKNERLQALLGDNEKMNLSDVELIPLLEPQVKIRGIIPETATLFKSALMPAQLFFKTEDGGKY
 PVIKFKHGDRLQDQLILQIISLMDKLLRKENLDLKLTPYKVLATSTKHGFMQFIQSVPAEVLDTGEGSIQ
 NFFRKYAPSETGPYGISAEVMDTYVKSCAGYCVITYILGVDRHLDNLLLTKTGKLFHIDFGYILGRDPK
 PLPPPMLNKEMVEGMGGTQSEYQEFKQCYTAFHLRYSNLILNLFSLMVDANIPDIALEPDKTVKK
 ISCHRKM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

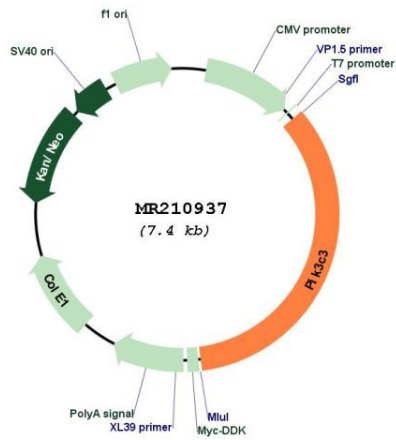
Sgfl-MluI

Cloning Scheme:



ACCN:	BC024675
ORF Size:	2541 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:	BC024675 , AAH24675
RefSeq Size:	3018 bp
RefSeq ORF:	2543 bp
Locus ID:	225326
Cytogenetics:	18 B1
MW:	96.8 kDa
Gene Summary:	Catalytic 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 required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2. Involved in the transport of lysosomal enzyme precursors to lysosomes. Required for transport from early to late endosomes (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210937