

Product datasheet for **MG210937**

Pik3c3 (BC024675) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pik3c3 (BC024675) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pik3c3
Synonyms:	5330434F23, Vps34
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210937 representing BC024675
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGGGGAGGCGGAGAAGTTCCACTACATCTACAGCTGTGACCTGGACATCAACGTGACGCTGAAGATAG
GGAGCTTGAAGGAAGAGAGAACAAAAGAGCTATAAAGCTGTCCTAGAAGATCCCATGTTAAAGTTTTTC
TGGGCTATACCAAGAGACATGCTCCGACCTCTATGTGACTTGTCAAGTGTGGCTGAAGGAAGCCCTG
GCCTTACCAGTCAGAACATCCTACAAGCGTTTAGTACAAGATGGAATTGGAACGAGTGGCTGAACTTC
CTGTCAAGTACCCTGACCTGCCAGGAATGCCAAGTGGCCTTGACTATATGGGATGTGTATGGACCGGG
AAGCGCTGTGCCAGTGGGAGGAACAACCGTGTGCTCTTTGAAAATATGGCATGTTTCGCCAAGGAATG
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CTTGTCTCCTTGTGTTGATGCAAAACATTCCAGATATTGCTCTTGAACCAGATAAAAAGTGAAAAAAG
ATATCCTGCCACAGAAAAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210937 representing BC024675
 Red=Cloning site Green=Tags(s)

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MGEAEKFHYIYSCDLINVLKIGSLEGRQKSYKAVLEDPMLKFSGLYQETCSDLVYTCQVFAEGKPL
ALPVRTSYKAFSTRWNNEWLKLVPKYDLP RNAQVALTIWDVYGP GSAPVVGTTVSLFGKYGMFRQGM
HDLKVVWPNVEADGSEPTRTPGRTSSTLSEDMRSLAKLTKAHRQGHMVKVDWLDRLTFREIEMINESEKR
SSNFMYL MVEFRCVKDDKEYGIVYYEKDGEDESSPILTSFELVKVPDPQMSMENLVESKHHKLARSLRSG
PSDHDLPNATTRDQLNIIVSYPPTKQLTYEEQDLVWKFYRYLTNQE KALTKFLKCVNWDLPQEAKQALE
LLGKWKPM DVEDSLELLSSHYTNPVRRYAVARLRQADDEDLLMYLLQLVQALKYENFDDIKNGLEPTKK
DSQTSASELSNSGVSSGDIDSSQIITNPLPPVAPP PASKAKEVSDGESLEQDLCTFLISRACKNSTLAN
YLYWYVIVECEDQDTQQRDPKTHEMYLNMRRFSQALLKGDKSVRVMRSLAAQQTFVDRLVHLMKAVQR
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PVIKFGHDDL RQDQLILQIISLMDKLLRKENLDLKLTPYKVLATSTKHGFMQFIQSVPAEVLDTGEGSIQ
NFFRKYAPSETGPYGISAEVMDTYVKSCAGYCVITYILGVDRHLDNLLLTKTGKLFHIDFGYILGRDPK
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ISCHRKM
  
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

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:

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

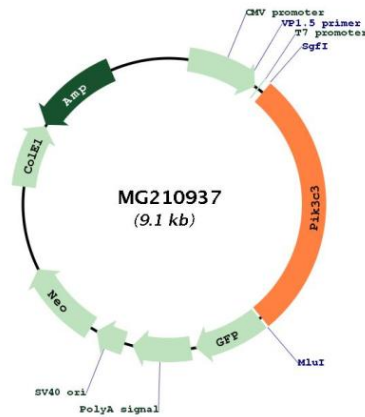
RefSeq ORF: 2543 bp

Locus ID: 225326

Cytogenetics: 18 B1

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 MG210937