

Product datasheet for **MC220903**

Pik3c3 (BC024675) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >BC024675
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGGAGGCGGAGAAGTTCCACTACATCTACAGCTGTGACCTGGACATCAACGTGCAGCTGAAGATAG
 GGAGCTTGAAGGAAGAGAGAACAAGAGCTATAAAGCTGTCTAGAAAGATCCCATGTTAAAGTTTTTC
 TGGGCTATACCAAGAGACATGCTCCGACCTCTATGTGACTTGTCAAGTGTGGTGAAGGGAAGCCCTG
 GCCTTACCAGTCAGAACATCCTACAAGCGTTTAGTACAAGATGGAATTGGAACGAGTGGCTGAACTTC
 CTGTCAAGTACCCTGACCTGCCAGGAATGCCAAGTGGCCTTGACTATATGGGATGTGTATGGACCGGG
 AAGCGCTGTGCCAGTGGGAGGAACAACCGTGTGCTCTTTGGAAAATATGGCATGTTTCGCCAAGGAATG
 CATGACTTGAAGGTCTGGCTAACGTGGAGGCAGATGGTCTGAACTACAAGAACTCCCGCAGAACA
 GCAGCACACTGTCAGAAGATCAGATGAGCCGCTCGCCAAGCTCACCAGGCTCATCGCAAGGACACAT
 GGTGAAAGTGGATTGGCTGGACAGATTAACATTTAGAGAGATAGAAATGATAAATGAGAGTGAGAAACGA
 AGCTCTAATTTTCACTGACTTGATGGTTGAGTTTCGCTGTGTAAAGTGCATGACAAGGAGATGGCATTG
 TTTACTATGAAAAGGATGGTGACGAATCATCTCCAATTTAACCAGTTTTGAGTTAGTAAAAGTTCTCTGA
 TCCTCAAATGTCTATGGAGAATTTAGTGGAGAGCAACACCACAAGCTTGCTCGGAGCTTAAAGAGCGGA
 CCATCTGACCACGATCTCAAACCAACGCTACCACAAGAGATCAGCTAAATATTATTGTGAGTTACCCAC
 CAACCAAGCAACTCACATATGAAGAACAAGATCTTGTGGAAAATTTAGATATTACTTACTAATCAAGA
 AAAAGCTCTGACGAAGTCTTGAAGTGTGTTAATTGGGACCTGCCCCAGGAGGCCAAGCAGGCCCTGGAA
 CTTCTGGGAAAGTGAAGCCAATGGATGTAGAGGACTCCCTGGAGCTGCTCTCTCTCATTACACCAACC
 CCACCGTGAGGCGCTACGCTGTGGCCCGCTGAGCAGGCCGATGATGAGGATTTGCTGATGACTTACT
 GCAGCTGGTCCAGGCTCTGAAATATGAAAACCTTTGATGACATAAAGAATGGTTTGGAACTACGAAGAAG
 GATAGTCAAACCTCAGCATCAGAAAAGTCTGTCCAATCTGGAGTCAGTTCTGGAGACATAGATAGCTCCC
 AAATTATAACCAACCCTCTCTCCCGTGGCCCCCTCTGCATCTAAAGCAAAGGAAGTTTCGGATGG
 GGAGAGTCTCGAGCAAGATCTATGTACGTTCTTGATATCAAGAGCCTGTAAGAACTCAACACTGGCTAAT
 TATTTATACTGGTATGTGATAGTGGAGTGTGAAGATCAGGACACCAGCAGCGGGACCCAAAGACTCACG
 AGATGTACCTGAACGTGATGAGGCGCTTACGCCAAGCCTTGCTCAAGGGTACAAGTCTGTGAGAGTCAT
 GCGCTCCCTGCTGGCTGCTCAGCAGACCTTTGTAGATCGCCTGGTCCATCTGATGAAGGCAGTGCAGAGA
 GAAAGTGGGAACCGCAAGAAGAAGAATGAGAGACTTCAGGCTTGCTTGGCGATAATGAGAAAATGAACT
 TATCAGATGTGGAAGTATCCCATTGCCGCTGGAGCCACAGGTGAAAATGAGGGGATCATCCCGGAAAC
 AGCTACCCTGTTCAAGAGTGTCTTATGCCTGCCAGCTGTTCTTCAAGACTGAAGATGGAGGCAATAC
 CCAGTTATTTTCAAGCATGGAGACGACTTGCGTCAAGATCAGCTTATTCTTCAAGATCATCTCCCTCATGG
 ACAAGCTGTTACGGAAAGAAAACCTGGATTTGAAATTGACCCCATATAAGGTGTTAGCCACTAGCACAAA
 ACATGGCTTATGCAGTTCATCCAGTCCGTTCTGTGCGAGAAGTCTTGACACAGAGGGGAAGCATTTCAG
 AACTTTTTTCAAGAAATATGCCCCAGTGAAGTGGACCTATGGCATCAGTGCAGAGGTCATGGACACTT
 ACGTTAAAAGCTGTGCTGGATACTGTGTGATTACGTACATTCTTGGAGTTGGAGACCGGCACCTGGATAA
 CCTTTTGTAAACAAAGACAGGCAAACTCTCCATATAGATTTTCGGGTATATTTTGGGTCGAGATCCGAAG
 CCCCTCCCTCCTCCGATGAAGCTGAACAAGGAGATGGTGGAAAGGATGGGTGGCACCCAGAGTGAGCAGT
 ACCAAGAGTTCGAAAGCAGTGCTACACAGCCTTCTCCACCTGCGAAGGTATTCCAATCTGATCTTGAA
 CTTGTTCTCCTTGATGGTTGATGCAAACTTCCAGATATTGCTCTTGAACCAGATAAAAAGTAAAAAAG
 ATATCCTGCCACAGAAAATGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: BC024675
Insert Size: 2544 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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
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]