

Product datasheet for **MC220068**

Pik3c2g (NM_011084) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pik3c2g (NM_011084) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pik3c2g
Synonyms:	C80387; PI3K-C2-gamma
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220068 representing NM_011084
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGGCTGCTACGGGATGCCAAGGTGAAGCCTACTTTAAAAGCTGGTATCAGGAGCTTTGGCCGCTC
TCCAGTTCGTGTCAGGAGAAGCCCTGAATGAAGAGCTTTCCAAGGAGCAGAACTTGTCAAACCTCTGGG
TGATATTGGAGAAAAAGTGAAGTCAGCCAGTGACCCTCAGAGAAAAGGATGTGCTAAAGAAAAGAGATTGGC
AGTCTAGAAGAATTCTTTAAAGATATAAAGACTTGCCATCTTCTCTGAACCCGGCACTGTGCATAAAAAG
GAATTGATCGGGATGCTTGCTCGTATTTTACATCCAACGCTTCGCCATTGAAGATTACTTTCATCAATGC
TAATCCAATGGGCAAAAATATCAGTGTTATTTTTAAGGCCGGAGATGATCTTCGGCAGGATATGCTTGCT
CTGCAGATTATCAAGTGATGGACAACGCTTGGCTGCAGGAGGGCCTCGATATGCAAATGATCACTTATG
GATGTCTATCCACAGGAAGAGCCCAAGGATTCATAGAGATGGTGCCTGATGCTGTAACCCGCGCCAAGAT
CCATCTGCACTCTGGGCTGATCGGACCCCTGAAAGAAAACACCATCAAGAAGTGTTTCAGTCAGCACAAC
CACTTAAAGGAAGATTATGAGAAGGCCCTTGAGGAACCTCTTTACTCTTGTGCTGGCTGGTGTGGTGA
CATTTCATCTTGGGAGTCTGTGACCGACATAATGACAATATCATGCTGACAAAAGTCAGGTCACATGTTTCA
TATTGACTTTGGAAAATTCTTGGGTCATGCGCAACATTTGGCGGTATCAAAAAGGGACAGAGCCCTTTC
ATTTTTACTTCAGAGATGGAGTACTTTATTACTGAGGGTGGAAAAACACACAGCATTTCAGACTTTCG
TGGAGCTTTGCTGCAGAGCTTACAACATCGTCAGGAAACACAGCCAGTTGATCCTGAGCCTTCTAGAGAT
GATGCTGCATGCAGGACTGCCTGAGCTAAGGGGAATCGAAGACCTGAAGTATGTACATAACAATCTTCGC
CCACAAGACACAGACCTGGAAGCCACAAGTCATTTACCAAGAAGATAAAGGAAAGTCTGGAGTGTTC
CAGTGAATTTGAATAACCTGATCCACACACTTGCACAGATGCCAGCCTTAAGCCTTGCCAAACCTGCCCC
TCAGACTCTTCTCCAGGAATCCTGCATCCTGAATAAGACCAGGACAATTCAGAGAGTCACAATTTTAGGG
TTCAGCAAGACACACAGCAACCTGTACCTGATGGAGGTGACATGCAAGTGAACAATAGGAGAAGCCTGACCA
AGAAGTCTTCGAGCAGTTTTACAGACTTCACAGCCAAATGCAGAAGCAGTTCTCCTCCTGGCTCTCC
AGAATTTCTCACTGGTGGCATCTACCTTTACAGACTCAGATCACAAAGAGAATCAGAGATCTGAGTCAC
TACGTGGAACAGGTGCTACGCGGATCTTATGAAGTTGCAAACAGTGATTGTGACTTAGCTTTTTTCTCT
CTGAACATATTCAACCAACTGAAGACTCTCCATTTGTGGACCCAGGTGAGAAGTCTCTAGACAAGAG
CCCTAAGGTGCAGTTACTGATGACGTATGAGGACTCGAGGCTCACCATCCTAGTAAACACTTGAAGAAC
ATCCATCTCCAGATGGCTCTGTGCCAGTGCACATGTTGAAATTTATCTTCTACCACATCCAGTGAAG
TTCGGAGAAAGAAAACAAGTGTGTTCCAAAATGCACTGACCCAACTTACAATGAAATTTGGTATATGA
TGAAGTCTTGGGGCTCCAGGGCCATGTTTTAATGCTTATCGTGAAGAGCAAACTGTATTTGTGGGAGCA
GTTAACATCCAGCTCTGCAGTGTACCCCTCAATGAAGAAAAGTGGTACCCACTAGGAAACAGTATCATCT
GA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_011084

Insert Size: 1962 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:

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_011084.2](#), [NP_035214.2](#)

RefSeq Size: 3549 bp

RefSeq ORF: 1962 bp

Locus ID: 18705

Cytogenetics: 6 69.7 cM

Gene Summary: Generates phosphatidylinositol 3-phosphate (PtdIns3P) and phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4)P2) that act as second messengers. May play a role in SDF1A-stimulated chemotaxis.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) contains multiple differences, compared to variant 1, including the lack of multiple 5' coding exons. It initiates translation at an alternate start codon. The encoded isoform (2) is shorter and has a distinct N-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.