

Product datasheet for **MR219441**

Pik3c2g (NM_011084) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide
Sequence:

>MR219441 representing NM_011084
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGGCTGCTACGGGATGCCAAAGGTGAAGCCTACTTTAAAAGCTGGTATCAGGAGCTTTGGCCGCTC
TCCAGTTCGTGCAGGAGAAGCCCTGAATGAAGAGCTTTCCAAGGAGCAGAACTTGTCAAACCTCTGGG
TGATATTGGAGAAAAAGTGAAGTCAGCCAGTGACCCTCAGAGAAAAGGATGTGCTAAAGAAAAGAGATTGGC
AGTCTAGAAGAATTCTTTAAAGATATAAAGACTTGCCATCTTCTCTGAACCCGGCACTGTGCATAAAAAG
GAATTGATCGGGATGCTTGTCTGATTTTACATCCAACGCTTCGCCATTGAAGATTACTTTCATCAATGC
TAATCCAATGGGCAAAAATATCAGTGTTATTTTTAAGGCCGGAGATGATCTTCGGCAGGATATGCTTGTCT
CTGCAGATTATCAAGTGATGGACAACGCTTGGCTGCAGGAGGGCCTCGATATGCAAATGATCACTTATG
GATGTCTATCCACAGGAAGAGCCCAAGGATTCATAGAGATGGTGCCTGATGCTGTAACCCGCGCCAAGAT
CCATCTGCACTCTGGGCTGATCGGACCCCTGAAAGAAAACACCATCAAGAAGTGTTTCAGTCAGCACAAC
CACTTAAAGGAAGATTATGAGAAGGCCCTTGAGGAACCTCTTTACTCTTGTGCTGGCTGGTGTGGTGA
CATTTCATCTTGGGAGTCTGTGACCGACATAATGACAATATCATGCTGACAAAAGTCAGGTCACATGTTTCA
TATTGACTTTGGAAAATCTTGGGTCATGCGCAAAACATTTGGCGGTATCAAAAAGGGACAGAGCCCTTTT
ATTTTTACTTCAGAGATGGAGTACTTTATTACTGAGGGTGAAAAAACACACAGCATTTCAGACTTTCG
TGGAGCTTTGCTGCAGAGCTTACAACATCGTCAGGAAACACAGCCAGTTGATCCTGAGCCTTCTAGAGAT
GATGCTGCATGCAGGACTGCCTGAGCTAAGGGGAATCGAAGACCTGAAGTATGTACATAACAATCTTCGC
CCACAAGACACAGACCTGGAAGCCACAAGTCATTTACCAAGAAGATAAAGGAAAGTCTGGAGTGTTC
CAGTGAATTTGAATAACCTGATCCACACACTTGCACAGATGCCAGCCTTAAGCCTTGCCAAACCTGCCCC
TCAGACTCTTCTCCAGGAATCTGCATCCTGAATAAGACCAGGACAATTCAGAGAGTCACAATTTTAGGG
TTCAGCAAGACACACAGCAACCTGTACCTGATGGAGGTGACATGCAAGTGAACAATAGGAGAAGCCTGACCA
AGAAGTCTTCGAGCAGTTTTACAGACTTCACAGCCAAATGCAGAAGCAGTTCTCCTCCTTGGCTCTCC
AGAATTTCTCACTGGTGGCATCTACCTTTACAGACTCAGATCACAAGAGAATCAGAGATCTGAGTCAC
TACGTGGAACAGGTGCTACGCGGATCTTATGAAGTTGCAAACAGTGATTGTGACTTAGCTTTTTCTCT
CTGAACATATTCAACCAACTGAAGACTCTCCATTTGTGGACCCAGGTGAGAAGTCTCTAGACAAGAG
CCCTAAGGTGCAGTTACTGATGACGTATGAGGACTCGAGGCTCACCATCCTAGTGAACACTTGAAAAAC
ATCCATCTCCAGATGGCTCTGTGCCAGTGCACATGTTGAAATTTATCTTCTACCACATCCAGTGAAG
TTCGGAGAAAAGAAAACAAGTGTGTTCCAAAATGCACTGACCCAACTTACAATGAAATTGGGTATATGA
TGAAGTCTTGGGGCTCCAGGGCCATGTTTTAATGCTTATCGTGAAGAGCAAACTGTATTTGTGGGAGCA
GTTAACATCCAGCTCTGCAGTGTACCCCTCAATGAAGAAAAGTGGTACCCACTAGGAAACAGTATCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR219441 representing NM_011084
 Red=Cloning site Green=Tags(s)

MGLLRDAQGEAYFKSWYQELLAALQFCAGEALNEEL SKEQKLVKLLGDIGEKVKSASDPQRKDVLLKKEIG
 SLEEFFKDIKTCHLPLNPALCIKIDRDACS YFTSNASPLKITFINANPMGKNISVIFKAGDDL RQDMLA
 LQIIQVMDNAWLQEG LDMQMITYGCLSTGRAQGF IEMVPDAVTLAKIHLHSG LIGPLKENTIKKWF SQHN
 HLKEDYEKALRNFFYSCAGWCVVTFILGVCDRHNDNIMLTKSGHMFHIDFGKFLGHAQTFGGIKRDRAPF
 IFTSEMEYFITEGGKNTQHFQDFVELCCRAYNIVRKHSQILS LLEMMLHAGLPELRGIEDLK YVHNNLR
 PQD TDLEATSHFTKKIKESLECFPVKLNLIHTLAQMPALSLAKPAPQTLLQESCILNKTRTIQRVTILG
 FSKTHSNLYLMEVTCSDNRRSLTKKSFEQFYRLHSQM QKQFSSALPEFP HWWHL PFTDSDHKRIRDLSH
 YVEQVLRGSYEVANS DCVLSFFLSEHIQPTLEDS PFVDPGENSLDKSPKVQLLMTYEDSRLTILVKHLKN
 IHLPDGVSVAHVEIYLLPHPSEVRRKTKCVPKCTDPT YNEIVVYDEV LGLQGHVLM LVIKSKTVFVGA
 VNIQLCSVPLNEEKWYPLGNSII

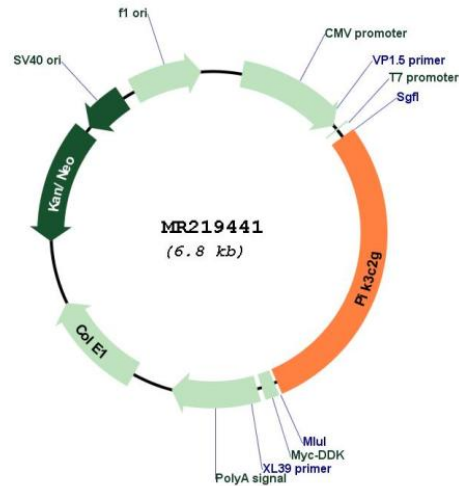
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_011084

ORF Size: 1959 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_011084.2](#), [NP_035214.2](#)

RefSeq Size: 3549 bp

RefSeq ORF: 1962 bp

Locus ID: 18705

Cytogenetics: 6 69.7 cM

MW: 74.9 kDa

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]