

Product datasheet for **MG219441**

Pik3c2g (NM_011084) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pik3c2g (NM_011084) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pik3c2g
Synonyms:	C80387; PI3K-C2-gamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219441 representing NM_011084
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCTGCTACGGGATGCCCAAGGTGAAGCCTACTTTAAAAGCTGGTATCAGGAGCTTTGGCCGCTC
 TCCAGTTCTGTGCAGGAGAAGCCCTGAATGAAGAGCTTTCCAAGGAGCAGAACTTGTCAAACCTCTGGG
 TGATATTGGAGAAAAAGTGAAGTCAGCCAGTGACCCTCAGAGAAAAGGATGTGCTAAAGAAAAGAGATTGGC
 AGTCTAGAAGAATTCTTTAAAGATATAAAGACTTGCCATCTTCTCTGAACCCGGCACTGTGCATAAAAAG
 GAATTGATCGGGATGCTTGTCTGATTTTACATCCAACGCTTCGCCATTGAAGATTACTTTCATCAATGC
 TAATCCAATGGGCAAAAATATCAGTGTTATTTTTAAGGCCGGAGATGATCTTCGGCAGGATATGCTTGTCT
 CTGCAGATTATCAAGTGATGGACAACGCTTGGCTGCAGGAGGGCCTCGATATGCAAATGATCACTTATG
 GATGTCTATCCACAGGAAGAGCCCAAGGATTCATAGAGATGGTGCCTGATGCTGTAACCCGCCCAAGAT
 CCATCTGCACTCTGGGCTGATCGGACCCCTGAAAGAAAACACCATCAAGAAGTGTTTCAGTCAGCACAAC
 CACTTAAAGGAAGATTATGAGAAGGCCCTTGAGGAACTTCTTTACTCTTGTGCTGGCTGGTGTGGTGA
 CATTTCATCTTGGGAGTCTGTGACCGACATAATGACAATATCATGCTGACAAAAGTCAGGTCACATGTTTCA
 TATTGACTTTGGAAAATTCTTGGGTCATGCGCAACATTTGGCGGTATCAAAAAGGGACAGAGCCCTTTTC
 ATTTTTACTTTCAGAGATGGAGTACTTTATTACTGAGGGTGGAAAAACACACAGCATTTCAGAACTTTCG
 TGGAGCTTTGCTGCAGAGCTTACAACATCGTCAGGAAACACAGCCAGTTGATCCTGAGCCTTCTAGAGAT
 GATGCTGCATGCAGGACTGCCTGAGCTAAGGGGAATCGAAGACCTGAAGTATGTACATAACAATCTTCGC
 CCACAAGACACAGACCTGGAAGCCACAAGTCATTTACCAAGAAGATAAAGGAAAGTCTGGAGTGTTC
 CAGTGAATTTGAATAACCTGATCCACACACTTGCACAGATGCCAGCCTTAAGCCTTGCCAAACCTGCCCC
 TCAGACTCTTCTCCAGGAATCCTGCATCCTGAATAAGACCAGGACAATTCAGAGAGTCACAATTTTAGGG
 TTCAGCAAGACACACAGCAACCTGTACCTGATGGAGGTGACATGCAAGTGAATAGGAGAAGCCTGACCA
 AGAAGTCTTCGAGCAGTTTTACAGACTTCACAGCCAAATGCAGAAGCAGTTCTCCTCCTGGCTCTCCC
 AGAATTTCTCACTGGTGGCATCTACCTTTACAGACTCAGATCACAAGAGAATCAGAGATCTGAGTCAC
 TACGTGGAACAGGTGCTACGCGGATCTTATGAAGTTGCAAACAGTGATTGTGACTTAGCTTTTTTCTCT
 CTGAACATATTCAACCAACTGAAGACTCTCCATTTGTGGACCCAGGTGAGAAGTCTCTAGACAAGAG
 CCCTAAGGTGCAGTTACTGATGACGTATGAGGACTCGAGGCTCACCATCCTAGTAAACACTTGAAGAAC
 ATCCATCTCCAGATGGCTCTGTGCCAGTGCACATGTTGAAATTTATCTTCTACCACATCCAGTGAAG
 TTCGGAGAAAGAAAACAAGTGTGTTCCAAAATGCACTGACCCAACTTACAATGAAATTTGGGTATATGA
 TGAAGTCTTGGGGCTCCAGGGCCATGTTTTAATGCTTATCGTGAAGAGCAAAACTGTATTTGTGGGAGCA
 GTTAACATCCAGCTCTGCAGTGTACCCCTCAATGAAGAAAAGTGGTACCCACTAGGAAACAGTATCATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG219441 representing NM_011084
 Red=Cloning site Green=Tags(s)

MGLLRDAQGEAYFKSWYQELLAALQFCAGEALNEEL SKEQKLVKLLGDIGEKVKSASDPQRKDVLLKKEIG
 SLEEFFKDIKTCHLPLNPALCIKIDRDACSYFTSNASPLKITFINANPMGKNISVIFKAGDDLQDMLA
 LQIIQVMDNAWLQEGLDQMITYGCLSTGRAQGF IEMVPDAVTLAKIHLHSLGIGPLKENTIKKWF SQHN
 HLKEDYEKALRNFFYSCAGWCVVTFILGVCDRHNDNIMLTKSGHMFHIDFGKFLGHAQTFGGIKRDRAPF
 IFTSEMEYFITEGGKNTQHFQDFVELCCRAYNIVRKHSQILSLEMLHAGLPELGGIEDLKYPVHNNLR
 PQDLDLEATSHFTKKIKESLECFPVKLNLIHTLAQMPALSLAKPAPQTLQESCILNKTRTIQRVTILG
 FSKTHSNLYLMEVTCSDNRRSLTKKSFEQFYRLHSQMQRQFSSLALPEFPHWWHLPTDSDHKRIRDL SH
 YVEQVLRGSYEVANSDCVLSFFLSEHIQPTLEDSFVDPGENSLDKSPKVQLLMTYEDSRLTILVKHLKN
 IHLPDGSVPSAHVEIYLLPHPSEVRRKTKCVPKCTDPTYNEIVVYDEVLLGQGHVLMILVKSKTVFVGA
 VNIQLCSVPLNEEKWYPLGNSII

TRTRPLE – GFP Tag – V

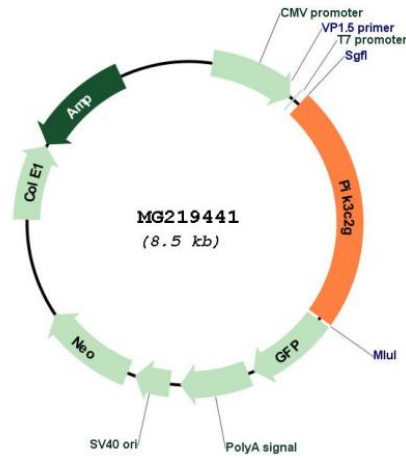
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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:	<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:	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]