

Product datasheet for **SC337976**

PIK3C2G (NM_001288774) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIK3C2G (NM_001288774) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIK3C2G
Synonyms:	PI3K-C2-gamma; PI3K-C2GAMMA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001288774, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGAAGAATATAGAGGTTGTTCCATTCAGCTAGTGGAAGTACCTCAAAGCAGCAATACGAGTCTGG
CCTCTTTTTGCAACAAAGTAAAAAAATCAGAGAAAGATATCATGCAGCTGATGTTAATTTCAATTCCTGG
GAAGATCTGGAGCACTACTACAGCATTTCCTGATCAGCTCTTTTCTAAGACCAAGTTAATATACATATT
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TGAAGAATTTTACAAAACGACCACTGTTTGGGGAGCCACAAAATGTTTCAAAAAGATAAATCTGTTATT
CAGCTCCACCTGCAGAAAAGTAGGGAAGCTCCAGGAAAGCTATCTCGAAAGCATGAAGAGGACCACAGTC
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TTCTCAACCTTTAGAGGCTCTTGGGCTTTTGACTTCCAGTTTTCCAGATCAAGAAATTCGTAAGTGCCA
GTTCAACAATTAGACAACCTCTTGAATGATGAAGTACTGGAATATCTCCACAGCTAGTTCAGGCTGTCA
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CCAAATCTACTTCACAGACTTTTCTCAGGAATCCTGTTTGTGAGTACAAGTTCAGTTCGATTGAAAGAGC
ACAATTTTAGGGTTCAGCAAGAAATCCAGTAATCTGTATCTGATCCAGGTGACACACAGCAACAACGAA
ACAAGCCTGACAGAAAAATCATTGAGCAGTTTTCAAACTTCACAGCCAACCTCAGAAGCAGTTTGCAT
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TATCCAGTGAAGTTCGTAGGAGGAAAAACAAATCTGTTCCAAATGTACGGACCCCACTTACAATGAAA
TTGTAGTATATGATGAAGTCACAGAGCTCAAGGACATGTCTTAATGCTTATTGTGAAGAGTAAAAGTGT
ATTTGTGGGAGCAATTAACATCCGACTCTGTAGTGTCCCACTCGATAAAGAAAAATGGTATCCATTAGGA
AACAGTATAATTGA

Restriction Sites: SgfI-MluI

ACCN: NM_001288774

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:	<u>NM_001288774.1</u> , <u>NP_001275703.1</u>
RefSeq Size:	4964 bp
RefSeq ORF:	3795 bp
Locus ID:	5288
UniProt ID:	<u>O75747</u>
Cytogenetics:	12p12.3
Protein Families:	Druggable Genome
Protein Pathways:	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
Gene Summary:	<p>The protein encoded by this gene belongs to the phosphoinositide 3-kinase (PI3K) family. PI3-kinases play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. This protein contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases. C2 domains act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions. This gene may play a role in several diseases, including type II diabetes.</p> <p>Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site in the 5' coding region, which results in the use of an alternate start codon and a frameshift, compared to variant 1. The encoded isoform (2) has a shorter and distinct N-terminus, compared to isoform 1.</p>