

Product datasheet for **SC308923**

PIK3R5 (NM_014308) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIK3R5 (NM_014308) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIK3R5
Synonyms:	F730038I15Rik; FOAP-2; p101; P101-PI3K
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF:

>OriGene sequence for NM_014308 edited
 ATGCAGCCAGGGGCCACGACATGCACGGAGGACCGCATCCAGCATGCCCTGGAACGCTGC
 CTGCATGGACTCAGCCTCAGCCGCCCTCCACCTCCTGGTCAGCTGGGCTGTGTCTGAAC
 TGCTGGAGCCTSCAGGAGCTGGTCAGCAGGGACCCGGGCCACTTCCTTATCCTCCTTGAG
 CAGATCCTGCAGAAGACCCGAGAGGTCCAGGAGAAGGGCACCTACGACCTGCTCACCCCG
 CTGGCCCTGCTCTTCTATTCCACTGTTCTTTGTACACCACACTTCCCACCAGACTCGGAT
 CTCCTTTGAAGGCAGCCAGCACCTACCACCGGTTCTGACCTGGCCTGTTCTTACTGC
 AGCATCTGCCAGGAGCTGCTCACCTTCATTGATGCTGAACTCAAGGCCCAAGGGATCTCC
 TACCAGAGACTGGTGAGGGCTGAGCAGGGCCTGCCCATCAGGAGTCACCCGAGCTCCACC
 GTCACCGTGTGCTGCTGAACCCAGTGGAAAGTGCAGGCCGAGTTCCTTGTGTAGCCAAT
 AAGCTGAGTACGCCCGGACACTCGCTCACAGTGCCTACACCACCTGCTCCTGCACGCC
 TTCCAGGCCACCTTTGGGGCCACTGTGACGTCCCGGGCTGCACTGCAGGCTACAGGCC
 AAGACCTGGCAGAGCTTGAAGACATCTCACGGAGACCCGAGAGGCACAGGAGCTGGCA
 TCTGGCATCGGGATGCTGCAGAGGCCCGCGGTGGCTCAGGACCAAGCTGCAGGCGGTG
 GGAAAAAAGCTGGCTTCCCTGGGGTGTAGACTGCAAAACCAGGGAAGCTCCACACC
 ATCCCCATCCCTGTGCCAGGTGCTACACCTACAGCTGGAGCCAGGACAGCTTTGACATC
 CTGCAGGAAATCCTGCTCAAGGAACAGGAGCTGCTCCAGCCAGGGATCCTGGGAGATGAT
 GAAGAGGAGGAAGAGGAGGAGGAGGTGGAGGAGACTTGGAAACTGATGGGCACTGT
 GCCGAGAGAGATTCCCTGCTCTCCACCAGCTCTTTGGCGTCCCATGACTCCACCTGTCC
 CTTGCATCCTCCCAGGCTCAGGGCCGGCCCTCTCGGCCATCTGCTGACTTCCTTTGTC
 TCAGGCCCTCTGATGGCATGGACAGCGGCTACGTGGAGGACAGCGAGGAGAGCTCCTCC
 AAGTGGCCTTGGAGGCGTGGCAGCCAGGAACCCGAGGCCACCCGAGGCTGGGCAGAAG
 TTCATCAGGATCTATAAECTCTTCAAGAGCACCCAGCCAGCTGGTACTGCGGAGGGACTCT
 CGGAGCCTGGAGGGCAGCTCGGACACGGCCCTGCCCTGAGGCGGGCAGGGAGCCTCTGC
 AGCCCCCTGGACGAACAGTATCACCCCTTCCCGGGCCAGCGCTCCCGCTCCCTGCC
 CAGCCCAAACCTCGGTACCCAGCTGCCAGCTGGCTTCTGGCCCTGCTTACGCCCCAG
 CGCCGCCGCCCTTCTGAGTGGAGATGAGGATCCCAAGGCTTCCACGCTACGTGTTGTG
 GTCTTTGGCTCCGATCGGATTTCAAGGAAGGTGGCTCGGGCGTACAGCAACCTTCGGCGG
 CTGGAGAAACATCGCCACTCCTCACACGGTCTTCAAACCTTCACTTCTTCTACGTGCCT
 GTGAAGCGAAGTCATGGGACCAGCCCTGGTGCCTGTCCACCCCTCGGAGCCAGACGCC
 TCACCCCGACAGACTCCCTAGGCACGCCAGCCCTGGAGAGCTGGGCACCACCCATGG
 GAGGAGAGCACCAATGACATCTCCCACTACCTCGGCATGCTGGACCCCTGGTATGAGCGC
 AATGTAAGTGGGCTCATGCACCTGCCCCCTGAAGTCTGTGCCAGCAGTCCCTGAAGGCT
 GAAGCCCAGGCCCTGGAGGGCTCCCAACCCAGCTGCCATCCTGGCTGACATGCTACTC
 TACTACTGCCGCTTTGCCGCCAGACCGGTGCTGCTGCAAGTCTATCAGACCGAGCTGACC
 TTCATCACTGGGAGAAAGACGACAGAGATCTTCACTCCCTTGGAGCTGGGCTCACTCC
 GCTGCCACAGTGCATCAAGGCGTCAGGTCCTGGCAGCAAGCGGCTGGGCATCGATGGC
 GACCGGGAGGCTGTTCTTAACACTACAGATTATTTACAGCAAGGGGGCCATCAGTGGA
 CGAAGTCGCTGGAGCAACCTGGAGAAGGTCTGTACCTCCGTGAACCTCAACAAGGCTGC
 CGGAAGCAGGAGAGCTGGATTCCAGCATGGAGGCCCTGACGCTAAACCTGACAGAAGTG
 GTGAAAAGGCAGAACTCCAAATCCAAGAAGGGTTTAAACCAGATTAGCACATCGCAGATC
 AAAGTGGACAAGGTGCAGATCATCGGCTCCAACAGCTGCCCTTTGCTGTGTGCCTGGAC
 CAGGATGAGAGAAAGATCCTGCAGAGTGTAGTCAGATGTGAGGTCTCACCGTGTACAAG
 CCAGAGAAAGCGACCTCTCTCACCACCCAGACGCCTCCTGACCTGCCGGCCAGGCC
 GCACCTGATCTGCTCCCTTCTGCTGCCATCATGACTTTCAGTGGAGCTCTGCC
 TAGTGTGGGCCAGCGCCAGACTGGACAGAAGCCCTGGGGCAACCTCCTCGGCCACCCCT
 CCAGGACAGTCCCTCTGTGGAGAACTGAATGGCCCTGTGCAGAGCCATAGTCCACTG
 TGGTCTGCAATGAGCAGGGGCTGGGAGTAGAGGGTTTCTGGGGCTCAGGGTTCTGGG
 AAAGCAACAGCTATCAGAGAGAGAAGGGCCAGACCCCATAGCCTCTTAGATTCTGGCAG
 TAGAAGGAGAAGGATGGGTAAATTGACCTCTGAAGTCCCTGACCATTAGCATGGTCTAGG
 ATCCTTTCTAGA

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_014308 unedited</p> <pre>GGTCAGATTTGTATACGACTCATATAGGCGGCCGCGNATTCATGCAGCCAGGGGCCACGA CATGCACGGAGGACCGCATCCAGCATGCCCTGGAACGCTGCCATGGACTCAGCCTCA GCCGCCGCTCCACCTCCTGGTCAGCTGGGCTGTGTCTGAACTGCTGGAGCCTCCAGGAGC TGGTCAGCAGGGACCCGGGCCACTTCCTTATCCTCCTTGAGCAGATCCTGCAGAAGACCC GAGAGGTCCAGGAGAAGGGCACCTACGACCTGCTACCCCGCTGGCCCTGCTCTTCTATT CCTACTGTTCTTTGTACACCACACTTCCCACCAGACTCGGATCTCCTTCTGAAGGCAGCCA GCACCTACCACCGTTCCCTGACCTGGCCTGTTCCCTTACTGCAGCATCTGCCAGGAGCTGC TCACCTTCATTGATGCTGAACTCAAGGCCCCAGGGATCTCTACCAGAGACTGGTGAGGG CTGAGCAGGGCCTGCCATCAGGAGTCACCGCAGCTCCACCGTACCCGTGCTGCTGCTGA ACCCAGTGAAGTGCAGGCCGAGTTCCTTGCTGTAGCCAATAAGCTGAGTACGCCGGAC ACTCGCCTCACAGTGCCTACACCACCTGCTCCTGCACGCCTTCCAGGCCACCTTTGGGG CCCCTGTGACGTCGCCGGCCTGACTGCAGGCTACAGGCCAAGACCCTGGCAGAGCTTG ANGACATCTTACGGAGACCGCAGAGCACAGGAGCTGGCATCTGGCATCGGGGATGCTGC AGAGGCCCGGGCTGGCTCANGACCAAGCTGCNAGCNGTGGGAGAAAAAGCTGGCTTTTC CTGGGGTGTAGACTGCAAACCAGGAAGCTNCACACATCCCCTNCTNNGTCGCAGTGC TACACCTACAGCTGG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_014308 unedited</p> <pre>CCATAGGNATGGCACTTCCAGNCCAGNAAAGCACTGGGNGAGGGTCACAGGGATGCCAC CCGGGATCTGTTACAGAAACAGCTATGACCGCGCCGCAATCTAGAAAGGATCCTAGACC ATGCTAATGGTCAGGGACTTCAGAGGTCAATTTACCCATCCTTCTCCTTCTACTGCCAGG AATCTAAGAGGCTATGGGGTCTGGCCCTTCTCTCTGATAGCTGTTGCTTCCAGAAC CCTGAGGCCCCAGAAACCTCTACTCCCAGCCCCTGCTCATTGCAGGACCCACAGTGGGA CTATGGCTCTGCACAGGGCCATTCACTTCTCCACAGAGAGGGACTGTCCTGGAGGGGTGG CCGAGGAGGTTGCCCCAGGGCTTCTGTCCAGTCTGGCGCTGGGCCACACTAGGGCAGAG CTCCAAGTAAAGTATGATGGGCAGGCAGAGAAGGGAGCAGAGATCAGGTGCGGCCTGGG CCGGCAGGTCAGGAGGCGTCTGGGGTGGTGAAGGAGAGGTCGCTCTTCTCTGGCTTGTAGC ACGGTGAGACCTCACATCTGACTACACTCTGCAGGATCTTTCTCTCATCCTGGTCCAGGC ACACAGCAAAGGGGCAGCTGTTGGAGCCGATGATCTGCACCTTGTCCACTTTGATCTGCG ATGTGCTAATCTGGTTAAAGCCCTTCTTGGATTTGGAGTTCTGCCTTTTACCACCTCTG TCANGTTTAGCGTCAGGGCCTCCATGCTGGAATCCAGCTNCTCCTGCTTTTCCGAGCCT TTGTTGANGTTCACGGGAGTACAGACCTTCTNCAGNTTGTCCAGCGACTTCGTCCACTG ATGGCCCCCTTGCTGNTAATATCTGTAGTGGTAGAGAACAGCCTNCCNGTCGCATCGATG CCAGCCGCTGCTGCCG</pre>
Restriction Sites:	Please inquire
ACCN:	NM_014308
Insert Size:	3000 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).
OTI Annotation:	There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. These result in the substitution of 1 aa.
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_014308.1 , NP_055123.1
RefSeq Size:	3255 bp
RefSeq ORF:	2643 bp
Locus ID:	23533
UniProt ID:	Q8WYR1
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome
Protein Pathways:	Acute myeloid leukemia, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Glioma, Insulin signaling pathway, Jak-STAT signaling pathway, Leukocyte transendothelial migration, Melanoma, mTOR signaling pathway, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Phosphatidylinositol signaling system, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway, Type II diabetes mellitus, VEGF signaling pathway
Gene Summary:	<p>Phosphatidylinositol 3-kinases (PI3Ks) phosphorylate the inositol ring of phosphatidylinositol at the 3-prime position, and play important roles in cell growth, proliferation, differentiation, motility, survival and intracellular trafficking. The PI3Ks are divided into three classes: I, II and III, and only the class I PI3Ks are involved in oncogenesis. This gene encodes the 101 kD regulatory subunit of the class I PI3K gamma complex, which is a dimeric enzyme, consisting of a 110 kD catalytic subunit gamma and a regulatory subunit of either 55, 87 or 101 kD. This protein recruits the catalytic subunit from the cytosol to the plasma membrane through high-affinity interaction with G-beta-gamma proteins. Multiple alternatively spliced transcript variants encoding two distinct isoforms have been found. [provided by RefSeq, Oct 2011]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR exon, compared to variant 1. Both variants 1 and 2 encode the same isoform 1.</p>