

Product datasheet for **SC318892**

PI 3 Kinase p55 gamma (PIK3R3) (NM_001114172) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PI 3 Kinase p55 gamma (PIK3R3) (NM_001114172) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIK3R3
Synonyms:	p55; p55-GAMMA; p55PIK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC318892 representing NM_001114172.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGTACAATACGGTGTGGAGTATGGACCGCGATGACGCAGACTGGAGGGAGGTGATGATGCCTATTCCG
ACAGAAGTATATTTTATTGAAATGGATCCTCCAGCTTCCACCAAAGCCACCTAAGCCAATGACT
TCAGCAGTTCCAAATGGAATGAAGGACAGTTCTGTTTCTTTCAGGATGCAGAATGGTACTGGGGGAT
ATTTCAAGGGAGGAGGTAATGACAAATTGCGGGATATGCCAGATGGGACCTTCTTGGTCCGAGATGCC
TCAACAAAAATGCAGGGAGATTACTTTGACTTTGCGGAAGGGAGGCAATAATAAGTTAATAAAGATC
TATCACCGGGATGGTAAATATGGCTTTTCTGATCCTCTGACATTTAATCCGTGGTGGAGCTCATTAAAC
CACTATCACCATGAATCTTGTCTCAGTACAATCCCAAATTGATGTGAAGCTGATGTACCCAGTGTCC
AGATACCAACAGGATCAGTTGGTAAAAGAAGATAATATTGATGCAGTAGGTAATAAAGTGAAGAATAC
CACTCTCAGTATCAGGAGAAGAGTAAAGAGTATGATAGGCTGTATGAAGAATATACTAGAACATCCCAG
GAAATACAGATGAAGAGGACTGCAATAGAAGCTTTTAAATGAAACAATTAATAATTTGAAGAGCAGTGT
CACACACAAGAACAACATAGCAAAGAATATATTGAGCGATTTCCGAGAGAGGGGAATGAAAAGGAGATT
GAACGAATTATGATGAATTATGATAAAATTGAAATCACGCTCGGGTGAGATTTCATGATAGCAAAATGCGT
CTAGAGCAGGATTTGAAGAATCAAGCTTTGGACAACCGAGAAATAGATAAAAAATGAATAGCATCAAA
CCTGACCTGATCCAGCTGCGAAAGATCCGAGATCAACACCTTGTATGGCTCAATCACAAGGAGTGAGA
CAGAAACGCCTGAATGTCTGGCTGGGAATTAAGAATGAGGATGCTGATGAGAATTTTTATCAATGAG
GAAGATGAAAACCTGCCCCATTATGATGAGAAAACCTGGTTTGTGAGGATATCAATCGAGTACAAGCA
GAGGACTTGCTTTATGGGAAACCTGATGGTGCATTCTTAATTCGTGAGAGTAGCAAGAAGGATGCTAT
GCTTGCTGTGGTGGCCGATGGGGAAGTGAAGCACTGTGTGATCTACAGCACTGCTCGGGGCTATGGC
TTTGACAGGCCCTACAACCTGTACAGCTCTCTGAAGGAGCTAGTGTCCATTACCAGCAGACATCCTTG
GTTTCAGCACAACGACTCCCTCAACGTCAGGCTTGCCCTACCTGTTTCATGCACAGATGCCCTCGCTTTGC
AGATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-Mlul

Plasmid Map: □

ACCN: NM_001114172

Insert Size: 1386 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001114172.1](#)

RefSeq Size: 5194 bp

RefSeq ORF: 1386 bp

Locus ID: 8503

UniProt ID: [Q92569](#)

Cytogenetics: 1p34.1

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

MW: 54.4 kDa

Gene Summary: Phosphatidylinositol 3-kinase (PI3K) phosphorylates phosphatidylinositol and similar compounds, which then serve as second messengers in growth signaling pathways. PI3K is composed of a catalytic and a regulatory subunit. The protein encoded by this gene represents a regulatory subunit of PI3K. The encoded protein contains two SH2 domains through which it binds activated protein tyrosine kinases to regulate their activity. [provided by RefSeq, Jun 2016]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.