

Product datasheet for **RC225775**

PI 3 Kinase p55 gamma (PIK3R3) (NM_001114172) Human Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RC225775 representing NM_001114172
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTACAATACGGTGTGGAGTATGGACCGCATGACGCAGACTGGAGGGAGGTGATGATGCCTATTCGA
 CAGAACTGATATTTTATATTGAAATGGATCCTCCAGCTCTCCACCAAAGCCACCTAAGCCAATGACTTC
 AGCAGTCCCAAATGGAATGAAGGACAGTTCTGTTTCTCTTCAGGATGCAGAATGGTACTGGGGGATATT
 TCAAGGGAGGAGGTAAATGACAAATGCGGGATATGCCAGATGGGACCTTCTTGGTCCGAGATGCCTCAA
 CAAAAATGCAGGGAGATTACTTTGACTTTGCGGAAGGGAGGCAATAATAAGTTAATAAAGATCTATCA
 CCGGGATGGTAAATATGGCTTTTCTGATCCTCTGACATTAATCCGTGGTGGAGCTCATTAACCACTAT
 CACCATGAATCTTGTCTCAGTACAATCCAACTTGATGTGAAGCTGATGTACCCAGTGTCCAGATACC
 AACAGGATCAGTTGGTAAAAGAAGATAATATTGATGCAGTAGGTAAGGACTGCAAGAATACCACTCTCA
 GTATCAGGAGAAGAGTAAAGATGATAGGCTGTATGAAGAATACTAGAACATCCAGGAAATACAG
 ATGAAGAGGACTGCAATAGAAGCTTTAATGAAACAATTAATAATTTGAAGAGCAGTGTACACACAAG
 AACACATAGCAAAGAATATATTGAGCGATTCGAGAGAGGGGAATGAAAGGAGATTGAACGAATTAT
 GATGAATTATGATAAATTGAAATCACGCTGGGTGAGATTCATGATAGCAAAATGCGTCTAGAGCAGGAT
 TTGAAGAATCAAGCTTTGGACAACCGAGAAATAGATAAAAAATGAATAGCATCAAACCTGACCTGATCC
 AGCTGCGAAAGATCCGAGATCAACACCTTGTATGGCTCAATCACAAAGGAGTGAGACAGAAACGCTGAA
 TGTCTGGCTGGGAATTAAGAATGAGGATGCTGATGAGAACTATTTATCAATGAGGAAGTGAACCTG
 CCCATTATGATGAGAAAACCTGGTTTGTGAGGATATCAATCGAGTACAAGCAGAGGACTTGCTTTATG
 GGAACCTGATGGTGCATTCTTAATTCGTGAGAGTAGCAAGAAAGGATGCTATGCTTGCTGTGGTGGC
 CGATGGGGAAGTGAAGCACTGTGTGATCTACAGCACTGCTCGGGCTATGGCTTTGCAGAGCCCTACAAC
 CTGTACAGCTCTCTGAAGGAGCTAGTGCTCCATTACCAGCAGACATCCTTGGTTCAGCACACGACTCCC
 TCAACGTCAGGCTTGCTACCCTGTTTCATGCAGATGCCCTCGCTTTGCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225775 representing NM_001114172
 Red=Cloning site Green=Tags(s)

MYNTVWSMDRDDADWREVMMPYSTELEFYIEMDPPALPPKPPKPMTSAPVNGMKDSSVSLQDAEWYWGDI
 SREEVNDKLRDMPDGTFLVRDASTKMQGDYTLTLRKGGNNKLIKIYHRDGKYGFSDPLTFNSVVELINHY
 HHESLAQYNPKLDVKLMYPVSRVYQQDQLVKEDNIDAVGKQLQEYHSQYQEKSKKEYDRLYEEYTRTSQEIQ
 MKRTAIEAFNETIKIFEEQCHTQEQHSKEYIERFRREGNEKEIERIMMNYDKLSRLGEIHDSKMRLEQD
 LKNQALDNREIDKMNISIKPDLIQLRKIRDQHLVWLNHGKVRQKRLNVWLGIKNEDADENYFINEEDENL
 PHYDEKTFWVEDINRVQAEDLLYGKPDGAFLIRESSKKGACYACSVVADGEVKHCVIYSTARGYGFAPYPN
 LYSSLKELVLHYQQTSLVQHNSLNVRLAYPVHAQMPSLCR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6138_g04.zip

Restriction Sites:

Sgfl-Mlul

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

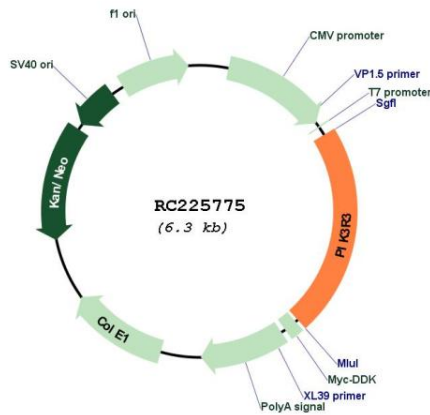
MW:

54.3 kDa

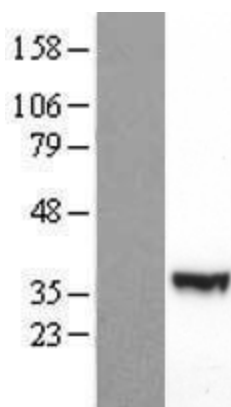
Gene Summary:

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]

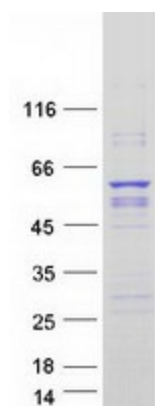
Product images:



Circular map for RC225775



Western blot validation of overexpression lysate (Cat# [LY426469]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225775 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PIK3R3 protein (Cat# [TP325775]). The protein was produced from HEK293T cells transfected with PIK3R3 cDNA clone (Cat# RC225775) using MegaTran 2.0 (Cat# [TT210002]).