

## Product datasheet for TP325775

### PI 3 Kinase p55 gamma (PIK3R3) (NM\_001114172) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phosphoinositide-3-kinase, regulatory subunit 3 (gamma) (PIK3R3), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC225775 representing NM_001114172 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MYNTVWSMDRDDADWREVMMPYSTELIFYIEMDPPALPPKPPKPMTSAPVNGMKDSSVSLQDAEWYW  
GDI  
SREEVNDKLRDMPDGTFLVRDASTKMQGDYTLTLRKGGNNKLIKIYHRDGKYGFSDPLTFNSVELINHY  
HHESLAQYNPKLDVKLMYPVSRYQQDQLVKEDNIDAVGKKLQEYHSQYQEKSEYDRLYEEYTRTSQEIQ  
MKRTAIEAFNETIKIFEEQCHTQEQHSKEYIERFRREGNEKEIERIMMNYDKLSRLGEIHDSKMRLEQD  
LKNQALDNREIDKKMNSIKPDLIQLRKIRDQHLVWLNHKGVRQKRLNVWLGKINEDADENYFINEEDEN  
L  
PHYDEKTFVEDINRVQAEDLLYGKPDGAFLIRESSKKGCYACSWADGEVKHCVIYSTARGYGFAEPYN  
LYSSLKELVLHYQQTSLVQHNDSLNVRLAYPVHAQMPSLCR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

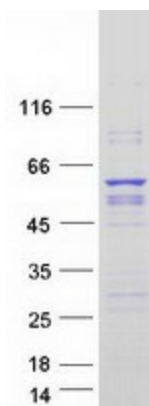
Tag:	C-Myc/DDK
Predicted MW:	54.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001107644</a>
<b>Locus ID:</b>	8503
<b>UniProt ID:</b>	<a href="#">Q92569</a>
<b>Cytogenetics:</b>	1p34.1
<b>RefSeq ORF:</b>	1383
<b>Synonyms:</b>	p55; p55-GAMMA; p55PIK
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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

### Product images:



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]).