

OriGene Technologies, Inc.

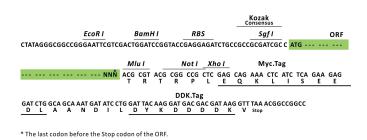
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Product datasheet for RC214266L1

PI 3 Kinase p85 alpha (PIK3R1) (NM_181504) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pl 3 Kinase p85 alpha (PIK3R1) (NM_181504) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Pl 3 Kinase p85 alpha
Synonyms:	AGM7; GRB1; IMD36; p85; p85-ALPHA
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC214266).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Safi ORF Miu i GCG ATC GC C ATG // NNN ACG CGT



ACCN: ORF Size:

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NM_181504

1362 bp

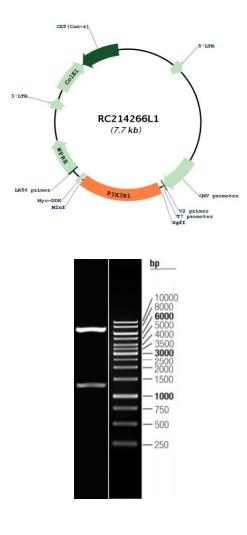
GRIGENE PI 3 Kin	nase p85 alpha (PIK3R1) (NM_181504) Human Tagged Lenti ORF Clone – RC214266L1
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 181504.2</u>
RefSeq Size:	5663 bp
RefSeq ORF:	1365 bp
Locus ID:	5295
UniProt ID:	<u>P27986</u>
Cytogenetics:	5q13.1
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:	53.3 kDa

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Gene Summary:Phosphatidylinositol 3-kinase phosphorylates the inositol ring of phosphatidylinositol at the 3-
prime position. The enzyme comprises a 110 kD catalytic subunit and a regulatory subunit of
either 85, 55, or 50 kD. This gene encodes the 85 kD regulatory subunit. Phosphatidylinositol
3-kinase plays an important role in the metabolic actions of insulin, and a mutation in this
gene has been associated with insulin resistance. Alternative splicing of this gene results in
four transcript variants encoding different isoforms. [provided by RefSeq, Jun 2011]

Product images:



Circular map for RC214266L1

Double digestion of RC214266L1 using Sgfl and Mlul

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