

Product datasheet for **RC218354L4V**

PIK3C2B (NM_002646) Human Tagged ORF Clone Lentiviral Particle

Product data:

| | |
|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | PIK3C2B (NM_002646) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | PIK3C2B |
| Synonyms: | C2-PI3K |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_002646 |
| ORF Size: | 4902 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC218354). |
| 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. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| RefSeq: | NM_002646.2 |
| RefSeq Size: | 7618 bp |
| RefSeq ORF: | 4905 bp |
| Locus ID: | 5287 |
| UniProt ID: | O00750 |
| Cytogenetics: | 1q32.1 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system |



[View online »](#)

MW: 184.6 kDa

Gene Summary: The protein encoded by this gene belongs to the phosphoinositide 3-kinase (PI3K) family. PI3-kinases play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. This protein contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases. C2 domains act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions. The PI3-kinase activity of this protein is sensitive to low nanomolar levels of the inhibitor wortmanin. The C2 domain of this protein was shown to bind phospholipids but not Ca^{2+} , which suggests that this enzyme may function in a calcium-independent manner. [provided by RefSeq, Jul 2008]