

## Product datasheet for **TP318354M**

### **PIK3C2B (NM\_002646) Human Recombinant Protein**

#### **Product data:**

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phosphoinositide-3-kinase, class 2, beta polypeptide (PIK3C2B), 100 µg
Species:	Human
Expression Host:	HEK293T



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**Expression cDNA Clone or AA Sequence:** >RC218354 representing NM\_002646  
Red=Cloning site Green=Tags(s)

MSSTQDNGEHWKSLESVGISRKELAMAEALQMEYDALSRHRHDKENRAKQNADPSLISWDEPGVDFYSK  
 PAGRRTDLKLRLGSLGSDPTLNYNLSLPQEGPPNHSTSQGPQPGSDPWPKGSLSGDYLYIFDGDGDDGVSS  
 SPGPGDIEGSCCKLSPPLPPRASIWDTPPLPPRKGSPSSSKISQPSDINTFSLVEQLPGKLEHRILEE  
 EEVLGGGGQGRLGSDVDYDGINDAITRLNLKSTYDAEMLRDATRGWKEGRGPLDFSKDTSKPKVARSKTM  
 PPQVPPTYASRYGNRNATPDKNRRISAAPVGSRPHTVANGHELFEVSEERDEEVAAFCHMLDILRSGS  
 DIQDYFLTGYVWSAVTPSPEHLGDEVNLKVTVLCDRLQEALTFNCNSSTVDLLIYQTLCTHDDLRNVD  
 VGDFVLKPCGLEEFLQNKHALGSHEYIQYCRKFDIDIRLQLMQKVVRSDLARTVNDDQSPSTLNYLVHL  
 QERPVKQTISRQALSLLFDTYHNEVDAFLADGDFPLKADRVVQSVKAICNALAAVETPEITSALNQLPP  
 CPSRMQPKIQKDPVLAVEREKVVEALTAAILDLVELYCNFTNADFQTAVPGSRKHDLVQEACHFARS  
 LAFTVYATHRIPIIWATSYEDFYLSCLSHGGKELCSPLQTRRAHFSKYLFLHIVWDQVICFPVQVNRLP  
 RETLLCATLYALPIPPPGSSSEANKQRRVPEALGWVTTPLFNFRQVLTGCRKLLGLWPATQENPSARWSA  
 PNFHQPDSVILQIDFPTSAFDIKFTSPPGDKFSPRYEFGSLREEDQRKLDIMQKESLYWLTADKKRLW  
 EKRYCHSEVSSLPLVLASAPSWEWACLPIYVLLKQWTHMNHQDALGLLHATFPDQEVRRMAVQWIGSL  
 SDAELLDYLPQLVQALKYECYLDSPVLRFLKRAVSDLRVTHYFFWLLKDGLKDSQFSIRYQYLLAALLC  
 CCGKGLREEFNRCWLNALAKLAQQVREAAPSARQGILRTGLEEVKQFFALNGSCRPLSPSLLVKGIV  
 PRDCSYFNNAVPLKLSFQNVDPGENIRVIFKCGDDLQDMLTLQIMIRIMSKIWVQEGLDMMRMVIFRCF  
 STGRGRGMVEMIPNAETLRKIQVEHGVTSFKDRPLADWLQKHNPGEDEYEKAVENFIYSCAGCCVATYV  
 LGICDRHNDNIMLKTTHGMFHIDFGRFLGHAQMFGNIKRDRAPVFTSDMAYVINGGDKPSSRFHDFVDL  
 CCQAYNLIRKHTHLFLNLLGLMLSCGIPESDLEDLKYVYDALRPQDTEANATTYFTRLISSLGSVATK  
 LNFFIHNLAQMKTGSDDRLLSFASRTHLTKSSGRISDVFLCRHEKIFHPNKGYYVVKVMRENTHEAT  
 YIQRTEEFQELHNKLRLLFPSSHLPSFSPRFVIGRSRGEAVAERRREELNGYIWHLIHAPPEVAECDLV  
 YTFHPLPRDEKAMGTSPAPKSSDGTWARPVGKVGGEVKLSISYKNNKLFIMVMHIRGLQLLQDGNDDPDP  
 YVKIYLLPDPQKTKRKTKVARKTCNPTYNEMLVYDGPKGDLQRELQLSVLSEQGFWENVLLGEVNIR  
 LRELDLAQEKTGWFALGSRSHGTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 184.6 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

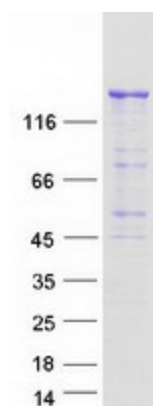
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**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.

<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_002637</a>
<b>Locus ID:</b>	5287
<b>UniProt ID:</b>	<a href="#">O00750</a> , <a href="#">A2RUF7</a> , <a href="#">Q4LE65</a>
<b>RefSeq Size:</b>	7618
<b>Cytogenetics:</b>	1q32.1
<b>RefSeq ORF:</b>	4902
<b>Synonyms:</b>	C2-PI3K
<b>Summary:</b>	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 <sup>2+</sup> , which suggests that this enzyme may function in a calcium-independent manner. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

### Product images:



Coomassie blue staining of purified PIK3C2B protein (Cat# [TP318354]). The protein was produced from HEK293T cells transfected with PIK3C2B cDNA clone (Cat# [RC218354]) using MegaTran 2.0 (Cat# [TT210002]).