

## Product datasheet for **TP305317**

### PI 3 Kinase Class 3 (PIK3C3) (NM\_002647) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human phosphoinositide-3-kinase, class 3 (PIK3C3), 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone** >RC205317 representing NM\_002647

**or AA Sequence:** Red=Cloning site Green=Tags(s)

MGEAEKFHYIYSCDLINVLKIGSLEGKREQKSYKAVLEDPMLKFSGLYQETCSLDYVTCQVFAEGKPL  
ALPVRTSYKAFSTRWNWNEWLKLVPKYPDLPRNAQVALTIWDVYGPVKAVPVGGTTVSLFGKYGMFRQGM  
HDLKWPVNVEADGSEPTKTPGRTSSTLSEDQMSRLAKLTKAHRQGHMVKVDWLDRLTFREIEMINESEKR  
SSNFMYLMVEFRCVKCDDKEYGIVYYEKDGEDESSPILTSFELVKVPDPQMSMENLVESKHHKLARSLRSG  
PSDHDLPNAATRDQLNIIVSYPTKQLTYEEQDLVWKFRYYLTNQEALTKFLKCVNWDLPQEAQKALE  
LLGKWKPMVDVDSLELLSSHYTNPTVRRYAVARLRQADDEDLLMYLLQLVQALKYENFDDIKNGLEPTKK  
DSQSSVSENVSNNGINSAEIDSSQIITSPLPSVSSPPASKTKEVPDGENLEQDLCTFLISRACKNSTLA  
NYLYWYVIVCEDQDTQQRDPKTHEMYLNVMMRRFSQALLKGDKSVRVMRSLLAAQQTVDRLVHLMKAVQ  
RESGNNRKKKNERLQALLGDNEKMNLSDVELIPLPLEPQVKIRGIIPETATLFKSALMPAQLFFKTEDGGK  
YPVIFKHGDDLQDQLILQIISLMDKLLRKENLDLKLTPYKVLATSTKHGFMQFIQSVPAEVLDTESGI  
QNFFRKYPAPSENGPNGISAEVMDTYVKSCAGYCVITYILGVGDRHLDNLLLTGTGKLFHIDFGYILGRDP  
KPLPPPMKLNKEMVEGMGGTQSEQYQEFRKQCYAFLHLRRYSNLILNLFSLMVDANIPDIALEPDKTVK  
KVQDKFRLDLSDEEAVHYMQSLIDESVHALFAAVVEQIHKFAQYWRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 101.4 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

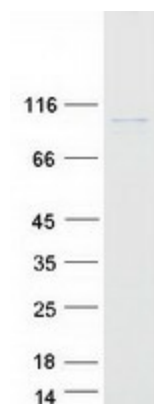
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	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_002638</a>
<b>Locus ID:</b>	5289
<b>UniProt ID:</b>	<a href="#">Q8NEB9</a>
<b>RefSeq Size:</b>	3083
<b>Cytogenetics:</b>	18q12.3
<b>RefSeq ORF:</b>	2661
<b>Synonyms:</b>	hVps34; VPS34; Vps34
<b>Summary:</b>	Catalytic subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate; different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis. Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123, PubMed:20208530). Involved in the transport of lysosomal enzyme precursors to lysosomes. Required for transport from early to late endosomes (By similarity). [UniProtKB/Swiss-Prot Function]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system, Regulation of autophagy

### Product images:



Coomassie blue staining of purified PIK3C3 protein (Cat# TP305317). The protein was produced from HEK293T cells transfected with PIK3C3 cDNA clone (Cat# [RC205317]) using MegaTran 2.0 (Cat# [TT210002]).