

Product datasheet for **TP305317M**

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), 100 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC205317 representing NM_002647
Red=Cloning site **Green**=Tags(s)

MGEAEKFHYIYSCDLINVLKIGSLEGKREQKSYKAVLEDPMLKFSGLYQETCSLDLYVTCQVFAEGKPL
ALPVRTSYKAFSTRWNWNEWLKLVPKYPDLPRNAQVALTIWDVYGPVKAVPVGGTTVSLFGKYGMFRQGM
HDLKWPVNVEADGSEPTKTPGRTSSTLSEDDQMSRLAKLTKAHRQGHMVKVDWLDRLTFREIEMINESEKR
SSNFMYLMVEFRCVKCDDKEYGIVYYEKDGEDESSPILTSFELVKVPDPQMSMENLVESKHHKLARSLRSG
PSDHDLKPNAATRDLNIIVSYPPTKQLTYEEQDLVWKFYYLTNQEKALTKFLKCVNWDLPQEAQKALE
LLGKWKPMDVESLELLSSHYNPTVRRYAVARLRQADDEDLLMYLLQLVQALKYENFDDIKNGLEPTKK
DSQSSVSENVSNNGINSAEIDSSQIITSPLPSVSSPPPASKTKEVPDGENLEQDLCTFLISRACKNSTLA
NYLYWYVIVCEDQDTQQRDPKTHEMYLNVMMRRFSQALLKGDKSVRVMRSLAAQQTVDRLVHLMKAVQ
RESGNRKKKNERLQALLGDNEKMNLSDELIPLEPQVKIRGIIPETATLFKSALMPAQLFFKTEDGGK
YPVIFKHGDDLQDLILQIISLMDKLLRKENLDLKLTPYKVLATSTKHGFMQFIQVSPVAEVLDTSESI
QNFFRKYAPSENGPNGISAEVMDTYVKSCAGYCVITYILGVGDRHLDNLLLTKTGKLFHIDFGYILGRDP
KPLPPPMKLNKEMVEGMGGTQSEQYQEFRKQCYAFLHLRRYSNLILNLFSLMVDANIPDIALEPKTVK
KVQDKFRLDLSDEEAVHYMQSLIDESVHALFAAVVEQIHKFAQYWRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

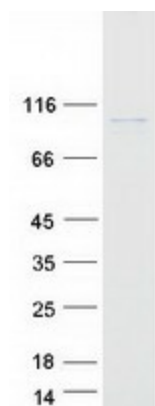
Tag: C-Myc/DDK
Predicted MW: 101.4 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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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.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002638
Locus ID:	5289
UniProt ID:	Q8NEB9
RefSeq Size:	3083
Cytogenetics:	18q12.3
RefSeq ORF:	2661
Synonyms:	hVps34; VPS34; Vps34
Summary:	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]
Protein Families:	Druggable Genome
Protein Pathways:	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]).