

## Product datasheet for PH310308

### PI 3 Kinase regulatory subunit 4 (PIK3R4) (NM\_014602) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PIK3R4 MS Standard C13 and N15-labeled recombinant protein (NP_055417)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210308
Predicted MW:	153.1 kDa
Protein Sequence:	>RC210308 protein sequence Red=Cloning site Green=Tags(s)

MGNQLAGIAPSQILSVESYFSDIHDFFEYDKSLGSTRFFKVARAKHREGLVVVKVFAIQDPTLPLTSYKQE  
LEELKIRLNSAQNCLPFQKASEKASEKAAMLFQYVRDNLDRISTRPFLNNEIEKRWIAFQILTAVDQAH  
KSGVRHGDIKTENVMVTSWNWVLLTDFASFKPTYLPEDNPADFNYFFDTSRRRTCYIAPERFVDGGMFAT  
ELEYMRDPSTPLVDLNSNQRTRGELKRAMDIFSAGCVIAELFTEGVPLFDLSQLLAYRNGHFFPEQVLNK  
IEDHSIRELVTQMIHREPDKRLEAEDYLKQQRGNAPFEIFYTFLQPYMAQFAKETFLSADERILVIRKDL  
GNI IHNL CGHDL PEKAE GEPK ENGLVIL VSVITSCLQTLKYCDSKLALELILHLAPRLSVEILLDRITP  
YLLHFSNDSVPRVRAEALRTLTKVLALVKEVPRNDINIYPEYILPGIAHLAQDDATIVRLAYAENIALLA  
ETALRFLLELVQLKNLNMENDPNNEEIDEVTHPNGNYDTELQALHEMVQKVVVTLSDPENIVKQTLMENG  
ITRLCVFFGRQKANDVLLSHMITFLNDKNDWHLRGAFFDSIVGVAAYVGVQSSSILKPLLQQLSDAEF  
VIVKALYALTMCQGLLQKPHYVEFASDIAPFLCHPNLWIRYGA VGITVVARQISTADYVCKLMPYLD  
PYITQPIIQIERKLVLLSVLKEPVSRISFDYALRSKDITSLFRHLHMRQKRNGSLPDCPPPEDPAIAQL  
LKKLLSQGMTEEEEDKLLALKDFMMKSNKAKANIVDQSHLHDSSQKGVIDLAAALGITGRQVLDVKTQEP  
DDKRARKHVKQDSNVNEEWKSMFGSLDPPNMPQALPKGSDQEVITGKPPRESSAGICVPLSTSSQVPE  
VTTVQNKKPVIPVLSSTILPSTYQIRITTCCKTELQQLIQKREQCNAERIAKQMMENA EWESKPPPPGWR  
PKGLLVAHLHEHKS AVNRIRVSDEHSLFATCSNDGTVKI WNSQKMEGKTTTTRSILTYSRIGGRVKLTF  
CQGSHYLAIASDNGAVQLL GIEASKLPKSPKIHPLQSRILDQKEDGCVVDMHFN SGAQS VLAYATVNGS  
LVGWDLRSSSNATLKHDLKSLGITSFAVDIHQCWL CIGTSSGTMACWDMRFQLPIS SHCHPSRARIRRL  
SMHPLYQSWVIAAVQGNNEVSMWDMETGDRRFTLWASSAPPLSELQSPHVS VHGIYCSPADGNPILLTAG  
SDMKIRFWDLAYPERSYVVGSTSSPSVSYRRIIEGTEVVQEI QNKQKVGPSDDTPRRGPESLPVGHHD  
IITDVATFQTTQGFIVTASRDGIVKVKW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

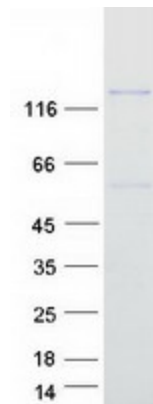
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method



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<b>Labeling Method:</b>	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3
<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_055417</a>
<b>RefSeq Size:</b>	5078
<b>RefSeq ORF:</b>	4074
<b>Synonyms:</b>	p150; VPS15
<b>Locus ID:</b>	30849
<b>UniProt ID:</b>	<a href="#">Q99570</a>
<b>Cytogenetics:</b>	3q22.1
<b>Summary:</b>	Regulatory 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 cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123).[UniProtKB/Swiss-Prot Function]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Regulation of autophagy

### Product images:



Coomassie blue staining of purified PIK3R4 protein (Cat# [TP310308]). The protein was produced from HEK293T cells transfected with PIK3R4 cDNA clone (Cat# [RC210308]) using MegaTran 2.0 (Cat# [TT210002]).