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Datasheet for ABIN7562222  
**PIK3R2 Protein (AA 1-722) (His tag)**

## Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 1 mg  |
| Target:                       | PIK3R2 (PI3K p85b)                            |
| Protein Characteristics:      | AA 1-722                                      |
| Origin:                       | Mouse   |
| Source:                       | HEK-293 Cells                                 |
| Protein Type:                 | Recombinant                                   |
| Purification tag / Conjugate: | This PIK3R2 protein is labelled with His tag. |
| Application:                  | SDS-PAGE (SDS), Western Blotting (WB)         |

## Product Details

|           |   |
|-----------|---|
| Purpose:  | Custom-made recombinat Pik3r2 Protein expressed in mammalien cells.   |
| Sequence: | MAGAEGFQYR AVYPFRRERP EDLELLPGDL LVVSRVALQA LGVADGGERC PHNVGWMPGF<br>NERTRQRGDF PGTYVEFLGP VALARPGPRP RGPRPLPARP LDGSSSESGHI LPDLAEQFSP<br>PDPAPPILVK LVEAIEQAEL DSECYSKPEL PATRTDWSLS DLEQWDR TAL YDAVKGFLLA<br>LPAAVVTPEA AAEAYRALRE VAGPVGLVLE PPTLPLHQAL TLRFLQLHLG RVARRAPSPD<br>TAVHALASAF GPLLLRIPPS GGEGDGSEPV PDFPVLLLER LVQEHVEEQD AAPPALPPKP<br>SKAKPAPTAL ANGGSPPSLQ DAEWYWGDIS REEVNERLRD TPDGTFLVRD ASSKIQGEYT<br>LTLRKGNNK LIKVFHRDGH YGFSEPLTFC SWELISHYR HESLAQYNAK LDTRLLYPVS<br>KYQQDQVVKE DSIEAVGAQL KVYHQYQDK SREYDQLYEE YTRTSQELQM KRTAIEAFNE<br>TIKIFEEQGQ TQEKCSKEYL ERFREGNEK EMQRILLNSE RLKSRIAEIH ESRTKLEQDL<br>RAQASDNREI DKRMNSLKPDL MQLRKIRDQ YLVWLTQKGA RQRKINEWLG IKNETEDQYS<br>LMEDEDALPH HEERTWYVGK INRTQAEEML SGKRDGTFLI RESSQRGCYA CSVVVDGDTK |

## Product Details

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HCVIYRTATG FGFAEPYNLY GSLKELVLHY QHASLVQHND ALTVTLAHPV RAPGPGPPSA AR

**Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity: > 90 % as determined by Bis-Tris Page, Western Blot

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Grade: custom-made

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## Target Details

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Target: PIK3R2 (PI3K p85b)

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Alternative Name: Pik3r2 ([PI3K p85b Products](#))

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Background: Phosphatidylinositol 3-kinase regulatory subunit beta (PI3-kinase regulatory subunit beta) (PI3K regulatory subunit beta) (PtdIns-3-kinase regulatory subunit beta) (Phosphatidylinositol 3-kinase 85 kDa regulatory subunit beta) (PI3-kinase subunit p85-beta) (PtdIns-3-kinase regulatory subunit p85-beta),FUNCTION: Regulatory subunit of phosphoinositide-3-kinase (PI3K), a kinase that phosphorylates PtdIns(4,5)P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Binds to activated (phosphorylated) protein-tyrosine kinases, through its SH2 domain, and acts as an

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## Target Details

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adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Indirectly regulates autophagy (By similarity). Promotes nuclear translocation of XBP1 isoform 2 in a ER stress- and/or insulin-dependent manner during metabolic overloading in the liver and hence plays a role in glucose tolerance improvement (PubMed:20348926). {ECO:0000250|UniProtKB:O00459, ECO:0000269|PubMed:20348926}.

Molecular Weight: 81.3 kDa

UniProt: [O08908](#)

Pathways: [VEGF Signaling](#), [BCR Signaling](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months