

Datasheet for ABIN7563997

PLEKHG5 Protein (AA 1-1073) (His tag)



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Overview

Quantity:	1 mg
Target:	PLEKHG5
Protein Characteristics:	AA 1-1073
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLEKHG5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Plekhg5 Protein expressed in mammalian cells.
Sequence:	<p>MGTGPGVSGR RAAARPSSEL PSPDSQLLWV GGHAHSSDSQ VCHHADCCQL HHRGPLNLCE</p> <p>TCDSKFHSTL HYDGHVRFDL PPQGSVLARN VSTRSCPPRT SPAADLEEEE EGCTDGKGDR</p> <p>KSAGLKISKK KARRRHTDDP SKECFTLKFD LNVDIETEIV PAMKKKSLGE VLLPVFERKG</p> <p>IALGKVDIYL DQSNTPLSLT FEAYRFGGHY LRVKAKPGDE GKVEQGVKDS KSLSLPALRP</p> <p>SGAGPPVSER VDPQSRRESS LDILAPGRRR KNMSEFLGEA GIPGHEPPAP SSCSLPVGSS</p> <p>GGTSSGINES WKNRAASRFS GFFSSSPSTS AFSREVDKME QLESKLHAYS LFGLPRMPRR</p> <p>LRFDHDSWEE EEEDDEEDEE SSGRLLEDSEW RELTDGHEKL TRRQCHQQA VVWELLHTEVS</p> <p>YIRKLRVITN LFLCCLLNQ ESGLLCEVEA ERLFSNIPEI AKLHRGLWGS VMVPVLEKAR</p> <p>RTRALLQPSD FLKGFKMFGS LFKPYIRYCM EEEGCMEMYR GLLRDNDLFR AYTWTAEKHQ</p> <p>QCQRLKLSDM LAKPHQRLTK YPLLLKSVLR KTDDPRTKEA IVTMISSVER FIHHVNTCMR</p> <p>QRQERQRLAG VVSRIDAYEV VEGSNDEVK LLKEFLHDL TAPMPGTSPE ETRQLLLEGS</p> <p>LRMKEGKDSK MDVYCFLFTD LLLVTKAVKK AERTKVIRPP LLVDKIVCRE LRDPGSFLLI</p>

YLNFEHSAVG AYTFQASSQA LCRSWVDTIY NAQNQLQQLR AQLSAQEHGP SQHLQSLEEE
EDEQEEEGEE SGTSAASSPT ILRKSSNSLD SEHCTSDGST ETLAMVVVEP GATLSSPEFE
GGPVSSQSDE SSSLNTASSV TPTSELLPLG PVDGRSCSMD SAYGTLSPST LQDFVAPHPV
VEPAPVPQTP SPQPSRLRR RTPVQLLRP PRLLKSKSEA SLLQLLSGTP AARGVPPAPS
RSLSELCLIS VAPGVRTQRP LQEGGPGWNG PGMCDPCHGP QLSESENRRPS HMTGGPADSA
RRRCREMPST TMSRVQSEPP SGVSAQHRKL TLAQLYRIRT TLLNSTLTA SEV **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.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: PLEKHG5

Alternative Name: Plekhg5 (PLEKHG5 Products)

Background: Pleckstrin homology domain-containing family G member 5 (PH domain-containing family G member 5) (Synectin-binding RhoA exchange factor) (SYX),FUNCTION: Functions as a guanine

Target Details

exchange factor (GEF) for RAB26 and thus regulates autophagy of synaptic vesicles in axon terminal of motoneurons (PubMed:29084947). Involved in the control of neuronal cell differentiation. Plays a role in angiogenesis through regulation of endothelial cells chemotaxis (PubMed:21543326). Affects also the migration, adhesion, and matrix/bone degradation in macrophages and osteoclasts (By similarity). {ECO:0000250|UniProtKB:O94827, ECO:0000269|PubMed:21543326, ECO:0000269|PubMed:29084947}.

Molecular Weight: 118.9 kDa

UniProt: [Q66T02](#)

Pathways: [Neurotrophin Signaling Pathway](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

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