

Datasheet for ABIN7556014
VPS35 Protein (AA 1-796) (His tag)



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Overview

Quantity:	1 mg
Target:	VPS35
Protein Characteristics:	AA 1-796
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VPS35 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat VPS35 Protein expressed in mammalien cells.
Sequence:	MPTTQQSPQD EQEKLLDEAI QAVKVQSFQM KRCLDKNKLM DALKHASNML GELRTSMLSP KSYEYLYMAI SDELHYLEVY LTDEFAKGRK VADLYELVQY AGNIIPRLYL LITVGVVYVK SFPQSRKDIL KDLVEMCRGV QHPLRGLFLR NYLLQCTRNI LPDEGEPTDE ETTGDISDSM DFVLLNFAEM NKLWVRMQHQ GHSRDREKRE RERQELRILV GTNLVRLSQL EGVNVERYKQ IVLTGILEQV VNCRDALAQE YLMECIIQVF PDEFHLQTLN PFLRACAEHL QNVNVKNIII ALIDRLALFA HREDGPGIPA DIKLFDIFSQ QVATVIQSRQ DMPSEDVVSL QVSLINLAMK CYPDRVYVD KVLETTVEIF NKLNLEHIAT SSAVSKELTR LLKIPVDTYN NILTVLKLKH FHPLFEYFDY ESRKSMSCYV LSNVLDYNTE IVSQDQVDSI MNLVSTLIQD QPDQPVEDPD PEDFADEQSL VGRFIHLLRS EDPDQQYLIL NTARKHFGAG GNQRIRFTLP PLVFAAYQLA FRYKENSVD DKWEKKCQKI FSFAHQTISA LIKAEALP LRLFLQGALA AGEIGFENHE TVAYEFMSQA FSLYEDEISD SKAQLAAITL IIGTFERMKC FSEENHEPLR TQCALAASKL

Product Details

LKKPDQGRAV STCAHLFWSG RNTDKNGEEL HGGKRVMECL KKALKIANQC MDPSLQVQLF
IEILNRYIYF YEKENDAVTI QVLNQLIQKI REDLPNLESS EETEQINKHF HNTLEHLRLR RESPESEGPI
Y EGLIL **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.**

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, Western Blot

Grade:

custom-made

Target Details

Target:

VPS35

Alternative Name:

VPS35 ([VPS35 Products](#))

Background:

Vacuolar protein sorting-associated protein 35 (hVPS35) (Maternal-embryonic 3) (Vesicle protein sorting 35),FUNCTION: Acts as a component of the retromer cargo-selective complex (CSC). The CSC is believed to be the core functional component of retromer or respective retromer complex variants acting to prevent missorting of selected transmembrane cargo proteins into the lysosomal degradation pathway. The recruitment of the CSC to the endosomal membrane involves RAB7A and SNX3. The CSC seems to associate with the cytoplasmic domain of cargo proteins predominantly via VPS35, however, these interactions seem to be of low affinity and retromer SNX proteins may also contribute to cargo selectivity thus questioning

Target Details

the classical function of the CSC. The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma membrane transport for cargo protein recycling. The SNX3-retromer mediates the retrograde endosome-to-TGN transport of WLS distinct from the SNX-BAR retromer pathway (PubMed:30213940). The SNX27-retromer is believed to be involved in endosome-to-plasma membrane trafficking and recycling of a broad spectrum of cargo proteins. The CSC seems to act as recruitment hub for other proteins, such as the WASH complex and TBC1D5 (Probable). Required for retrograde transport of lysosomal enzyme receptor IGF2R and SLC11A2. Required to regulate transcytosis of the polymeric immunoglobulin receptor (pIgR-pIgA) (PubMed:15078903, PubMed:15247922, PubMed:20164305). Required for endosomal localization of WASHC2C (PubMed:22070227, PubMed:28892079). Mediates the association of the CSC with the WASH complex via WASHC2 (PubMed:22070227, PubMed:24980502, PubMed:24819384). Required for the endosomal localization of TBC1D5 (PubMed:20923837). {ECO:0000269|PubMed:15078903, ECO:0000269|PubMed:15247922, ECO:0000269|PubMed:20164305, ECO:0000269|PubMed:20923837, ECO:0000269|PubMed:22070227, ECO:0000269|PubMed:23395371, ECO:0000269|PubMed:24819384, ECO:0000269|PubMed:24980502, ECO:0000269|PubMed:28892079, ECO:0000269|PubMed:30213940, ECO:0000303|PubMed:21725319, ECO:0000303|PubMed:22070227, ECO:0000303|PubMed:22513087, ECO:0000303|PubMed:23563491}, FUNCTION: (Microbial infection) The heterotrimeric retromer cargo-selective complex (CSC) mediates the exit of human papillomavirus from the early endosome and the delivery to the Golgi apparatus. {ECO:0000269|PubMed:25693203, ECO:0000269|PubMed:30122350}.

Molecular Weight: 91.7 kDa

UniProt: [Q96QK1](#)

Application Details

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

Format: Liquid

Handling

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