

Datasheet for ABIN7548619
C13orf18 Protein (AA 1-662) (His tag)



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Overview

Quantity:	1 mg
Target:	C13orf18
Protein Characteristics:	AA 1-662
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This C13orf18 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RUBCNL Protein expressed in mammalian cells.
Sequence:	<p>MVSQSTVRQD SPVEPWEGIS DHSGIIDGSP RLLNTDHPPC QLDIRLMRHK AVWINPQDVQ QQPQDLQSQV PAAGNSGTHF VTDAASPSGP SPSCLGDSLA ETTLSEDTTD SVGSASPHGS SEKSSSFSL S STEVHMVRPG YSHRVSLPTS PGILATSPYP ETDSAFFEPS HLTSADEGA VQVSRRTISS NSFSPEVFL PVDVEKENAH FYVADMIISA MEKMKCNILS QQTESWSKE VSGLLGSDQP DSEMTFDNI KQESGSSTSS YSGYEGCAVL QVSPVTETRT YHDVKEICKC DVDEFVILEL GDFNDITETC SCSCSSSKSV TYEPDFNSAE LLAKELYRVF QKCWILSVN SQLAGLSLAA GSIVVNEECV RKDFESSMNV VQEIKFKSRI RGTEDWAPPR FQIIFNIHPP LKRDLVAAQ NFFCAGCGTP VEPKFKRLR YCEYLGKYFC DCCHSYAES C IPARILMMWD FKKYYVSNFS KQLLDSIWHQ PIFNLLSIGQ SLYAKAKELD RVKEIQEQLF HIKKLLKTCR FANSALKEFE QVPGHLTDEL HLFSLEDLVR IKKGLLAPLL KDILKASLAH VAGCELCQ GK GFICEFCQNT TVIFPFQTAT CRRCSACRAC FHKQCFQSSE CPRCARITAR RKLLESVASA AT</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the</p>

Product Details

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: C13orf18

Alternative Name: RUBCNL ([C13orf18 Products](#))

Background: Protein associated with UVRAG as autophagy enhancer (Pacer) (Protein Rubicon-like),FUNCTION: Regulator of autophagy that promotes autophagosome maturation by facilitating the biogenesis of phosphatidylinositol 3-phosphate (PtdIns(3)P) in late steps of autophagy (PubMed:28306502, PubMed:30704899). Acts by antagonizing RUBCNL, thereby stimulating phosphatidylinositol 3-kinase activity of the PI3K/PI3KC3 complex (PubMed:28306502). Following anchorage to the autophagosomal SNARE STX17, promotes the recruitment of PI3K/PI3KC3 and HOPS complexes to the autophagosome to regulate the fusion specificity of autophagosomes with late endosomes/lysosomes (PubMed:28306502). Binds phosphoinositides phosphatidylinositol 3-phosphate (PtdIns(3)P), 4-phosphate

Target Details

(PtdIns(4)P) and 5-phosphate (PtdIns(5)P) (PubMed:28306502). In addition to its role in autophagy, acts as a regulator of lipid and glycogen homeostasis (By similarity). May act as a tumor suppressor (Probable). {ECO:0000250|UniProtKB:Q3TD16, ECO:0000269|PubMed:28306502, ECO:0000269|PubMed:30704899, ECO:0000305|PubMed:23522960}.

Molecular Weight: 73.5 kDa

UniProt: [Q9H714](#)

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