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Datasheet for ABIN3135812
FAM21C Protein (AA 1-1334) (His tag)

Overview

Quantity:	1 mg
Target:	FAM21C
Protein Characteristics:	AA 1-1334
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FAM21C protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MNRTSPDSEK PPASEPVWER PWSVEEIRRS SQNWSLAADA GLLQLQEFSS QQTISRTHEI
KKQVDGLIQE TKATHCRLHN VFNDFLMLSN TQFIENRVYD EEVEEQVLKA EAEKAEQEK
REKQKIDLIP KVQEAVNYGL QVLDSAFEQL DIKAGNSDSE EDDANERVDL ILEPKDLYID
RPLPYLIGSK LFMEQEDVGL GELSSEEGSV GSDRGSIVDS EDEKEEEESD EDFASHSDND
QNQHHTTQISD EEEDDDGDLF ADSEKEGDDI EDIEESAKSK RPTSFADLA ARIKGDINQ
RKEGQTDGKP QKTVKEKKER RTPADDEEDI LFPPPTLTDE DFSPFGSRGG LFSNGQGLFD
DEDESDLFKE APRARPAQAP VSEELPPSPK PGKKIPAGAV SVLLGHPDVS GSTSAPSLKE
LQKHGQPTPG KSSHLPTPAG LFDDDDNDND EDDNFFMPS SSKPSKTDKV KSTAIIFDDD
EGDLFKEKAE ALPAASVSQT HESKTRADKT IALPSSKNLK LVSETKTQKG LFSDEEDSED
LFSSQSSSKP KSASLPSSQP PTSVSLFGDE DEEDSLFGSA AAKKQTSSLQ PQSQEKAKPS
EQPSKKTSA LFSSDEEDQW NIADSHTKLA SDNKSNGELW DSGATQGQEA KAVKKTNLFE
DDDDDEVDFL AIKDSQKKT QRTSLLFEDD AESGSSLFGL PPTSVPSATT KKEVSPKVPL

LFSDDEEDSEV PSGVKPEDLK VDNARVSPEV GSADVASIAQ KEGLLPASDQ EAGGPSDIFS
SSSPLDKGAK GRTRTVLSLF DEDEDKVEDE SSTCAPQDGR EKGLKTDSRP KSTGVFQDEE
LLFSHLQKD NDPDVLDFAG TTKIRSSVPS GGSLFGDDED DDLFSSAKTQ PVVPEKKGTL
KKDHPVSLKN QDPLDSTQGS KEKSTWKTEP AQDSSGLTPF KSREPSSRIG KIQANLAINP
AALLPTVALQ IPGTKPVSS LAFPSSEPGR SHILESVPTL PGSVEAGVSF DLPAQADTLH
SANKSRVKVR GKRRPQTRAA RRLAAQESSE AEDVTVDRGP VAQLSSSPVL PNGHQPLLQP
RMASGQTSSE TATAPPWEGG PVLSAADRSF FVKSRPQTGN EADLFDSDGI FPKSRGSQSV
EGAGVMAGEP PSHSSGGRKE KSLAFPDLE GSSTEDLFQS VKPRAAKNRN PFPLLEDEED
LFADPRGKKN ERKPDSHQDS VSKTHDIFED DIFATEAIKP FPKKREKGR TLEPNLFDDNI
DIFADLTVKP KEKSKKKVAA KSMFDDDTDD IFSSGLQAKA SKPKSQSAEA ASEQRSEHKV
ASIFDDPLNA FGSQ

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Fam21 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in bacterial culture:

Product Details

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: FAM21C

Alternative Name: Fam21 ([FAM21C Products](#))

Background: Acts at least in part as component of the WASH core complex whose assembly at the surface of endosomes inhibits WASH nucleation-promoting factor (NPF) activity in recruiting and activating the Arp2/3 complex to induce actin polymerization and is involved in the fission of tubules that serve as transport intermediates during endosome sorting. Mediates the recruitment of the WASH core complex to endosome membranes via binding to phospholipids and VPS35 of the retromer CSC. Mediates the recruitment of the F-actin-capping protein dimer to the WASH core complex probably promoting localized F-actin polymerization needed for vesicle scission. Via its C-terminus binds various phospholipids, most strongly phosphatidylinositol 4-phosphate (PtdIns-(4)P), phosphatidylinositol 5-phosphate (PtdIns-(5)P) and phosphatidylinositol 3,5-bisphosphate (PtdIns-(3,5)P₂). Involved in the endosome-to-plasma membrane trafficking and recycling of SNX27-retromer-dependent cargo proteins, such as GLUT1. Required for the association of DNAJC13, SDCCAG3, ANKRD50 with retromer CSC subunit VPS35. Required for the endosomal recruitment of CCC complex subunits COMMD1, CCDC93 and C16orf62 homolog (By similarity). {ECO:0000250|UniProtKB:Q9Y4E1}.

Molecular Weight: 146.3 kDa Including tag.

UniProt: [Q6PGL7](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies

Application Details

as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM HEPES, 10% glycerol. pH value 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: Unlimited (if stored properly)