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Datasheet for ABIN3136253

TMEM67 Protein (AA 1-992) (rho-1D4 tag)

1 Image

Overview

Quantity:	1 mg
Target:	TMEM67
Protein Characteristics:	AA 1-992
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TMEM67 protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MVTRTRPVAA MAVRSRSSSR TGTAYLLLVL CEVSWAQIFS FPFRRPETCD FNQYFDISAL
SCAPCGANQR RDALGTSCVC LPGYHMISNN GGPSIICKKC PENMKGVTGD GWDCISCPSG
LTAEGKCHCP TGHILVERN VSGSLLAQATC ELCDESENSF TKANALGTRC VRCEPTVNT
SRSCSCSEPH TLTGGLCFNS TGNFHQRVIS TARYGELGMS LNSEWFAKYL QATAAACWITH
ANLTSCQALG NMCVMNMNSY DSTTLDACRL FHYIFESTAG LISVHVPFW RQNLPLWLYFG
DQPGLAPQVL STTPLPTNFS FKGQNQLKFV AASYDIRGNF IKWQPLEGGV LQLCPDTER
LDAAYAFGTT YQQNCEISLS KLLVDFSSPV FYDVYLEYTD EEQHRYLWPI PVLNINLQHN
KLFVNQDSSS SKWLLTRRIF LVDAVSGREN DLGNQPRVIR VATQISLSIR LVPNTKNGNI
YTPLLIAYS DIDIKNAHSQ SAKISFSVKY EMNQGDAVH TDIALGVLGG LAVLSSLLKT
AGWKRRVGGSP MIDLQTMKF LLYYAGDLAN VFFIITVGTG LYWLIFFAKQ KSVSVLLPMP
VQEERFVTYV GCAFAMKALQ FLHKFISQIS IDIFFIDWER PKGKVLKAVE GEGGVR SATV
PVSIRWRTYFV ANEWNEIQTV RKINPLFQVL TTLFFLEVVG FKNLALMDSS SLSRNP SDY

TAPYSRILRY AVATAIWLVI GIIQVFFAA FYERFIEDKI RQFVDLCSMS NVSVFLLSHR
CFGYYIHGRS VHGHADTNME EMNMNLKREA ENLCSQRGLV PNTDGQTFQI AVSSQMRQHY
DRIHETLTRR NGPARLLSSS GSTFEQSIKA YHAMNKFLGS FIDHVKEMD YFIKDKLLLE
RILGMEFMEP MEKSIFYNDE GHSFSSVLYY GNEATLLIFD LLFFCVVDLA CQDFVLASFL
TYLQQEIFRF IRNTVGQKNL ATKTLVDERF LI

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 Tmem67 Protein (raised in Insect Cells) 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:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
3. Protein containing fractions of the best purification are subjected to second purification step

Product Details

through size exclusion chromatograph. 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: TMEM67

Alternative Name: Tmem67 ([TMEM67 Products](#))

Background: Part of the tectonic-like complex which is required for tissue-specific ciliogenesis and may regulate ciliary membrane composition. Involved in centrosome migration to the apical cell surface during early ciliogenesis. Required for ciliary structure and function, including a role in regulating length and appropriate number through modulating centrosome duplication. Required for cell branching morphology. Essential for endoplasmic reticulum-associated degradation (ERAD) of surfactant protein C (sftpc). {ECO:0000269|PubMed:17185389, ECO:0000269|PubMed:19515853, ECO:0000269|PubMed:21725307}.

Molecular Weight: 113.0 kDa Including tag.

UniProt: [Q8BR76](#)

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.

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)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process