

Datasheet for ABIN7554555

## TMEM67 Protein (AA 1-995) (His tag)



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### Overview

Quantity:	1 mg
Target:	TMEM67
Protein Characteristics:	AA 1-995
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TMEM67 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant TMEM67 Protein expressed in mammalian cells.
Sequence:	<p>MATRGGAGVA MAVWSLLSAR AVTAFLLLFL PRFLQAQTFS FPFQQPEKCD NNQYFDISAL</p> <p>SCVPCGANQR QDARGTSCVC LPGFQMISNN GGPAIICKKC PENMKGVTED GWNCISCPSD</p> <p>LTAEGKCHCP IGHILVERDI NGTLLSQATC ELCDGNENSF MVVNALGDRC VRCEPTVNT</p> <p>SRSCACSEPN ILTGGLCFSS TGNFPLRRIS AARYGEVGMS LTSEWFAKYL QSSAAACWVY</p> <p>ANLTSCQALG NMCVMNMNSY DFATFDACGL FQFIFENTAG LSTVHSISFW RQNLPWLFYG</p> <p>DQLGLAPQVL SSTS LPTNFS FKGENQNTKL KFVAASYDIR GNFLKWQTL EGGVLQLCPDT</p> <p>ETRLNAAYSF GTTYQQNCEI PISKILIDFP TPIFYDVYLE YTDENQHQYI LAVPVLNLNL</p> <p>QHNKIFVNQD SNSGKWLLTR RIFLVDAVSG RENDLGTQPR VIRVATQISL SVHLPNTIN</p> <p>GNIYPPLITI AYSDIDIKDA NSQSVKVSFS VTYEMDHGEA HVQTDIALGV LGGLAVLASL</p> <p>LKTAGWKRR I GSPMIDLQTV VKFLVYYAGD LANVFFIITV GTGLYWLIF KAQKSVSVLL</p> <p>PMPIQEERFV TYVGCAFALK ALQFLHKLIS QITIDVFFID WERPKGKVLK AVEGEGGVRS</p> <p>ATVPVSIWRT YFVANEWNEI QTVRKINS LFQVLT VLF FLE VVGFKNLALM DSSSSLSRNP</p>

## Product Details

PSYIAPYSCI LRYAVSAALW LAIGIIQVVF FAVFYERFIE DKIRQFVDLC SMSNISVFLI SHKCFGYIHH  
GRSVHGHADT NMEEMNMNLK REAENLCSQR GLVPNTDGQT FEIAISNQMR QHYDRIHETL  
IRKNGPARLL SSSASTFEQS IKAYHMMNKF LGSFIDHVK EMDYFIKDKL LLERILGMEF  
MEPMEKSIFY NDEGYSFSSV LYYGNEATLL IFDLLFFCVV DLACQNFI LA SFLTYLQQEI  
FRYIRNTVGQ KNLASKTLVD QRFLI **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:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>

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

## Target Details

Target:	TMEM67
Alternative Name:	TMEM67 ( <a href="#">TMEM67 Products</a> )
Background:	Meckelin (Meckel syndrome type 3 protein) (Transmembrane protein 67),FUNCTION: Required for ciliary structure and function. Part of the tectonic-like complex which is required for tissue-specific ciliogenesis and may regulate ciliary membrane composition (By similarity). Involved in centrosome migration to the apical cell surface during early ciliogenesis. Involved in the

## Target Details

regulation of cilia length and appropriate number through the control of centrosome duplication. Is a key regulator of stereociliary bundle orientation (By similarity). Required for epithelial cell branching morphology. Essential for endoplasmic reticulum-associated degradation (ERAD) of surfactant protein C (SFTPC). Involved in the negative regulation of canonical Wnt signaling, and activation of the non-canonical cascade stimulated by WNT5A (PubMed:26035863). In non-canonical Wnt signaling, it may act as ROR2 coreceptor (By similarity). {ECO:0000250|UniProtKB:Q8BR76, ECO:0000269|PubMed:17185389, ECO:0000269|PubMed:19515853, ECO:0000269|PubMed:19596800, ECO:0000269|PubMed:19815549, ECO:0000269|PubMed:26035863}.

Molecular Weight: 111.7 kDa

UniProt: [Q5HYA8](#)

## 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