Datasheet for ABIN7544531

TMEM41B Protein (AA 1-291) (His tag)

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Overview

Quantity:	1 mg
Target:	TMEM41B
Protein Characteristics:	AA 1-291
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TMEM41B protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TMEM41B Protein expressed in mammalian cells.
Sequence:	MAKGRVAERS QLGAHHTTPV GDGAAGTRGL AAPGSRDHQK EKSWVEAGSA RMSLLILVSI FLSAAFVMFL VYKNFPQLSE EERVNMKVPR DMDDAKALGK VLSKYKDTFY VQVLVAYFAT YIFLQTFAIP GSIFLSILSG FLYPFPLALF LVCLCSGLGA SFCYMLSYLV GRPVVYKYLT EKAVKWSQQV ERHREHLINY IIFLRITPFL PNWFINITSP VINVPLKVFF IGTFLGVAPP SFVAIKAGTT LYQLTTAGEA VSWNSIFILM ILAVLSILPA IFQKKLKQKF E **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:	Key Benefits:

Product Details

- 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:	TMEM41B
Alternative Name:	TMEM41B (TMEM41B Products)
Background:	Transmembrane protein 41B (Protein stasimon),FUNCTION: Phospholipid scramblase involved in lipid homeostasis and membrane dynamics processes (PubMed:34015269, PubMed:33929485, PubMed:33850023). Has phospholipid scramblase activity toward cholesterol and phosphatidylserine, as well as phosphatidylethanolamine and phosphatidylcholine (PubMed:34015269, PubMed:33929485, PubMed:33850023). Required for autophagosome formation: participates in early stages of autophagosome biogenesis at the endoplasmic reticulum (ER) membrane by reequilibrating the leaflets of the ER as lipids are extracted by ATG2 (ATG2A or ATG2B) to mediate autophagosome assembly (PubMed:30093494, PubMed:30126924, PubMed:30933966, PubMed:34015269, PubMed:33929485, PubMed:34043740, PubMed:33850023). In addition to autophagy, involved in other processes in which phospholipid scramblase activity is required (PubMed:33850023). Required for normal motor neuron development (By similarity). {ECO:0000250|UniProtKB:A1A5V7, ECO:0000269|PubMed:30093494, ECO:0000269|PubMed:30126924, ECO:0000269|PubMed:30933966,

Target Details

	ECO:0000269|PubMed:33850023, ECO:0000269|PubMed:33929485, ECO:0000269|PubMed:34015269, ECO:0000269|PubMed:34043740}., FUNCTION: (Microbial infection) Critical host factor required for infection by human coronaviruses SARS-CoV-2, HCoV-OC43, HCoV-NL63, and HCoV-229E, as well as all flaviviruses tested such as Zika virus and Yellow fever virus (PubMed:33382968, PubMed:33338421). Required post-entry of the virus to facilitate the ER membrane remodeling necessary to form replication organelles (PubMed:33382968). {ECO:0000269|PubMed:33338421, ECO:0000269|PubMed:33382968, ECO:0000269|PubMed:34043740}.
Molecular Weight:	32.5 kDa
UniProt:	Q5BJD5

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