

Datasheet for ABIN7560196

## TMC01 Protein (AA 1-188) (His tag)



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### Overview

Quantity:	1 mg
Target:	TMC01
Protein Characteristics:	AA 1-188
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TMC01 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant Tmco1 Protein expressed in mammalian cells.
Sequence:	<p>MSTMFADTLL IVFISVCTAL LAEGITWVLV YRTDKYKRLK AEVEKQSKKL EKKKETITES</p> <p>AGRQQKKKIE RQEEKLKNNN RDLSMVRMKS MFAIGFCFTA LMGMFNSIFD GRVVAKLPFT</p> <p>PLSYIQGLSH RNLLGDDTTD CSFIFLYILC TMSIRQNIQK ILGLAPSRAA TKQAGGFLGP PPPSGKFS</p> <p><b>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.</b></p>
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</li> </ul>

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:	TMC01
Alternative Name:	Tmco1 ( <a href="#">TMC01 Products</a> )
Background:	Calcium load-activated calcium channel (CLAC channel) (GEL complex subunit TMC01) (Transmembrane and coiled-coil domain-containing protein 1),FUNCTION: Calcium-selective channel required to prevent calcium stores from overfilling, thereby playing a key role in calcium homeostasis (PubMed:27212239). In response to endoplasmic reticulum (ER) overloading, assembles into a homotetramer, forming a functional calcium-selective channel, regulating the calcium content in endoplasmic reticulum store (PubMed:27212239). Component of the multi-pass translocon (MPT) complex that mediates insertion of multi-pass membrane proteins into the lipid bilayer of membranes (By similarity). The MPT complex takes over after the SEC61 complex: following membrane insertion of the first few transmembrane segments of proteins by the SEC61 complex, the MPT complex occludes the lateral gate of the SEC61 complex to promote insertion of subsequent transmembrane regions (By similarity). Within the MPT complex, the GEL subcomplex may mediate insertion of transmembrane regions into the membrane (By similarity). {ECO:0000250 UniProtKB:Q9UM00, ECO:0000269 PubMed:27212239}.
Molecular Weight:	21.2 kDa
UniProt:	<a href="#">Q921L3</a>

## Application Details

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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.
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Restrictions:	For Research Use only
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## Handling

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Format:	Liquid
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Buffer:	The buffer composition is at the discretion of the manufacturer.
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Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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