

Datasheet for ABIN7544222
TM4SF5 Protein (AA 1-197) (His tag)



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Overview

Quantity:	1 mg
Target:	TM4SF5
Protein Characteristics:	AA 1-197
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TM4SF5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TM4SF5 Protein expressed in mammalian cells.
Sequence:	MCTGKCARCV GLSLITLCLV CIVANALLLV PNGETSWTNT NHLSLQVWLM GGFIGGGLMV LCPGIAAVRA GKGKCCGAGC CGNRCRMLRS VFSSAFVGLG AIYCLSVSGA GLRNGPRCLM NGEWGYHFED TAGAYLLNRT LWDRCEAPPR VVPWNVTLFS LLVAASCLEI VLCGIQLVNA TIGVFCGDCR KKQDTPH 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: <ul style="list-style-type: none">• 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

Product Details

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)
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Grade:	custom-made
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Target Details

Target:	TM4SF5
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Alternative Name:	TM4SF5 (TM4SF5 Products)
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Background:	Transmembrane 4 L6 family member 5 (Tetraspan transmembrane protein L6H),FUNCTION: Acts as a lysosomal membrane arginine sensor (PubMed:30956113). Forms a complex with MTOR and SLC38A9 on lysosomal membranes in an arginine-regulated manner, leading to arginine efflux which enables the activation of mTORC1 which subsequently leads to RPS6KB1 and EIF4EBP1 phosphorylations (PubMed:30956113). Facilitates cell cycle G1/S phase progression and the translocation of the CDK4-CCND1 complex into the nucleus (PubMed:20399237). CDKN1B and RHOA/ROCK signaling activity are involved in TM4SF5-mediated acceleration of G1/S phase progression (PubMed:20399237). {ECO:0000269 PubMed:20399237, ECO:0000269 PubMed:30956113}.
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Molecular Weight:	20.8 kDa
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UniProt:	O14894
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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.
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Application Details

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