

Datasheet for ABIN7561334

TRMT112 Protein (AA 1-125) (His tag)



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Overview

Quantity:	1 mg
Target:	TRMT112
Protein Characteristics:	AA 1-125
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRMT112 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Trmt112 Protein expressed in mammalien cells.
Sequence:	<p>MKLLTHNLLS SHVRGVGTRG FPLRLQATEV RINPVEFNPE FVARMIPKVE WAALVQAADT LNLA EVPKEP TEGYEHDETF LRKMHHVLE VDVLEGLTQC PESGRLFPIS RGIPNMLLND EETET</p> <p>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.</p>
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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).

Product Details

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, Western Blot
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Grade:	custom-made
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Target Details

Target:	TRMT112
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Alternative Name:	Trmt112 (TRMT112 Products)
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Background:	Multifunctional methyltransferase subunit TRM112-like protein (tRNA methyltransferase 112 homolog),FUNCTION: Acts as an activator of both rRNA/tRNA and protein methyltransferases (PubMed:20606008, PubMed:26797129). Together with methyltransferase BUD23, methylates the N(7) position of a guanine in 18S rRNA (By similarity). The heterodimer with HEMK2/N6AMT1 catalyzes N5-methylation of ETF1 on 'Gln-185', using S-adenosyl L-methionine as methyl donor (PubMed:20606008, PubMed:26797129). The heterodimer with ALKBH8 catalyzes the methylation of 5-carboxymethyl uridine to 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in target tRNA species (By similarity). Together with methyltransferase THUMPD3, catalyzes the formation of N(2)-methylguanosine at position 6 in a broad range of tRNA substrates and at position 7 of tRNA(Trp) (By similarity). Involved in the pre-rRNA processing steps leading to small-subunit rRNA production (By similarity). Together with methyltransferase METTL5, specifically methylates the 6th position of adenine in position 1832 of 18S rRNA (By similarity). {ECO:0000250 UniProtKB:Q9UI30, ECO:0000269 PubMed:20606008, ECO:0000269 PubMed:26797129}.
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Molecular Weight:	14.1 kDa
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UniProt:	Q9DCG9
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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.
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Restrictions:	For Research Use only
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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