

Datasheet for ABIN7544778  
**FTSJ1 Protein (AA 1-329) (His tag)**



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## Overview

Quantity:	1 mg
Target:	FTSJ1
Protein Characteristics:	AA 1-329
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FTSJ1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat FTSJ1 Protein expressed in mammalien cells.
Sequence:	<p>MGRTSKDKRD VYYRLAKENG WRARSAFKLL QLDKEFQLFQ GVTRAVDLCA APGSWSQVLS QKIGGQGSGH WVAVDLQAMA PLPGVVQIQG DITQLSTAKE IIQHFKGCPA DLVVC DGAPD VTGLHDVDEY MQAQLLLAAL NIATHVLKPG GCFVAKIFRG RDVTLLYSQL QVFFSSVLCA KPRSSRNSSI EAFAVCQGYD PPEGFIPDLS KPLLDHSYDP DFNQLDGPTR IIVPFVTCGD LSSYDSDRSY PLDLEGGSEY KYTPPTQPI SPPYQEA CTL KRKGQLAKEI RPQDCPISRV DTFPQPLAAP QCHTLLAPEM EDNEMSCSP <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>
Characteristics:	Key Benefits:

## Product Details

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- 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.

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Purity: > 90 % as determined by Bis-Tris Page, Western Blot

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Grade: custom-made

## Target Details

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Target: FTSJ1

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Alternative Name: FTSJ1 ([FTSJ1 Products](#))

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Background: TRNA (cytidine(32)/guanosine(34)-2'-O)-methyltransferase (EC 2.1.1.205) (2'-O-ribose RNA methyltransferase TRM7 homolog) (Protein ftsJ homolog 1),FUNCTION: Methylates the 2'-O-ribose of nucleotides at positions 32 and 34 of the tRNA anticodon loop of substrate tRNAs (PubMed:25404562, PubMed:32558197, PubMed:32198346, PubMed:33771871, PubMed:26310293, PubMed:36720500). Requisite for faithful cytoplasmic translation (PubMed:32393790). Requires THADA for methylation of the nucleotide at position 32 of the anticodon loop of substrate tRNAs (PubMed:26310293, PubMed:25404562). Requires WDR6 for methylation of the nucleotide at position 34 of the anticodon loop of substrate tRNAs (PubMed:32558197, PubMed:33771871). Promotes translation efficiency of the UUU codon (PubMed:32558197). Plays a role in neurogenesis (PubMed:36720500). Required for expression of genes involved in neurogenesis, mitochondrial translation and energy generation, and lipid biosynthesis (PubMed:36720500, PubMed:33771871). Requisite for RNA-mediated gene silencing (PubMed:36720500). May modify position 32 in tRNA(Arg(ACG)), tRNA(Arg(CCG)), tRNA(Arg(UCG)), tRNA(Cys(GCA)), tRNA(Cys(ACA)), tRNA(Gln(CUG)), tRNA(Gln(UUG)),

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## Target Details

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tRNA(Gly(CCC)), tRNA(Leu(CAG))/tRNA(Leu(CAA)), tRNA(Leu(A/IAG)), tRNA(Leu(UAG)), tRNA(Phe(GAA)), tRNA(Pro(AGG))/tRNA(Pro(CGG))/tRNA(Pro(UGG)) and tRNA(Trp(CCA)), and position 34 in tRNA(Phe(GAA)), tRNA(Leu(CAA)), tRNA(Sec(UCA)), and tRNA(Trp(CCA)) (PubMed:32558197, PubMed:32198346, PubMed:33771871, PubMed:26310293, PubMed:36720500). {ECO:0000269|PubMed:25404562, ECO:0000269|PubMed:26310293, ECO:0000269|PubMed:32198346, ECO:0000269|PubMed:32393790, ECO:0000269|PubMed:32558197, ECO:0000269|PubMed:33771871, ECO:0000269|PubMed:36720500}.

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Molecular Weight: 36.1 kDa

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UniProt: [Q9UET6](#)

## Application Details

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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

## 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