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Datasheet for ABIN7553739  
**DPPA3 Protein (AA 1-159) (His tag)**

## Overview

Quantity:	1 mg
Target:	DPPA3
Protein Characteristics:	AA 1-159
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DPPA3 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant DPPA3 Protein expressed in mammalian cells.
Sequence:	MDPSQFNPTY IPGSPQMLTE ENSRDDSGAS QISSETLIKN LSNLTINASS ESVSPLSEAL LRRESVGA AV LREIEDEWLY SRRGVRTL LS VQREKMARLR YMLGGV RTH ERRPTNKEPK GVKKESRPFK CPCSFV SNG WDPSENARIG NQDTKPLQP <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>
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"><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>

## Product Details

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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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

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## Target Details

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Target:	DPPA3
Alternative Name:	DPPA3 ( <a href="#">DPPA3 Products</a> )
Background:	<p>Developmental pluripotency-associated protein 3 (Stella-related protein),FUNCTION: Primordial germ cell (PGCs)-specific protein involved in epigenetic chromatin reprogramming in the zygote following fertilization (PubMed:35314832). In zygotes, DNA demethylation occurs selectively in the paternal pronucleus before the first cell division, while the adjacent maternal pronucleus and certain paternally-imprinted loci are protected from this process (By similarity). Participates in protection of DNA methylation in the maternal pronucleus by preventing conversion of 5mC to 5hmC: specifically recognizes and binds histone H3 dimethylated at 'Lys-9' (H3K9me2) on maternal genome, and protects maternal genome from TET3-mediated conversion to 5hmC and subsequent DNA demethylation (By similarity). Does not bind paternal chromatin, which is mainly packed into protamine and does not contain much H3K9me2 mark (By similarity). Also protects imprinted loci that are marked with H3K9me2 in mature sperm from DNA demethylation in early embryogenesis (By similarity). May be important for the totipotent/pluripotent states continuing through preimplantation development (By similarity). Also involved in chromatin condensation in oocytogenesis (By similarity).</p> <p>{ECO:0000250 UniProtKB:Q8QZY3, ECO:0000269 PubMed:35314832}.</p>
Molecular Weight:	17.9 kDa

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## Target Details

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UniProt: [Q6W0C5](#)

## 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.

Restrictions: For Research Use only

## Handling

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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