

Datasheet for ABIN7558020  
**TXNDC2 Protein (AA 1-515) (His tag)**



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## Overview

Quantity:	1 mg
Target:	TXNDC2
Protein Characteristics:	AA 1-515
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TXNDC2 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Txndc2 Protein expressed in mammalian cells.
Sequence:	<p>MTLNNGGKAN ERGSNENPLQ ALSKNEAFLV PEFLDTAQSK EKAIASKVSN TLHMSTEESE FPQQVSSTPM FSENTVHPRH EVSPKPSSKN TQLKQENISK SSGYSKQTNYSNTPKSLAKT THPKQGSTLK PATNSTHYRE DDIPKSSEDI IQPKKGDRPK SSEDIIQSKK EDRPKSSEDI IQSKKEDRPK SSEDIIQSKK EDRPKSSEDI IQSKKEDRPK SSEDIIQPKK EDRPKSSEDS VPSKKGDRPK SSEDVQPKK EDRPKSSEDS VQSKEGEVHK PLKDSIQSKE TKVPKSPQDS IQSKEDKTHR PLKDSVQSKE SEEPKSSHES IQSKEDKIHK PLKDSIPSKE GDIPKSPEDT IQSQEITAS EEDTIQSQEG NTKSSEEDV QLSESKLLGL GAEIETLEEG LVRVIKDKEE FEEVLKDAGE KLVAVDFSA WCGPCRMMKP LFHLSLKH DVFLEVDTE DCEQLVQDCE IFHLPTFQFY KNEEKVGEFS GALVGKLEERS ISELK <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>

## Product Details

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**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.

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**Characteristics:** **Key Benefits:**

- 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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**Grade:** custom-made

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## Target Details

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**Target:** TXNDC2

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**Alternative Name:** Txndc2 ([TXNDC2 Products](#))

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**Background:** Thioredoxin domain-containing protein 2 (Spermatid-specific thioredoxin-1) (Sptrx-1) (Thioredoxin-4),FUNCTION: Probably plays a regulatory role in sperm development. May participate in regulation of fibrous sheath (FS) assembly by supporting the formation of disulfide bonds during sperm tail morphogenesis. May also be required to rectify incorrect disulfide pairing and generate suitable pairs between the FS constituents. Can reduce disulfide bonds in vitro in the presence of NADP and thioredoxin reductase.

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**Molecular Weight:** 57.8 kDa

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**UniProt:** [Q6P902](#)

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**Pathways:** [Cell RedoxHomeostasis](#)

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## 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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