

Datasheet for ABIN7564955
TDRD12 Protein (AA 1-1215) (His tag)



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Overview

Quantity:	1 mg
Target:	TDRD12
Protein Characteristics:	AA 1-1215
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TDRD12 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Tdrd12 Protein expressed in mammalian cells.
Sequence:	MFEVLVLKIE DPGCFWVIK GCSHFLEQEV DYQKLNAMN DFYNSMCQDV EMKPLMLEEG QVCVVCQEL KCWCRAIKS IISSADHYLA ECFLVDFAKY IPVKSKNIRV AVESFMQLPY RAKKFRLYGT KPVTLHIDFC EDNAEIVPAT KWDSAAIQYF QNLLRATTQV EAKLCAVEED TFEVLYATI KNEKVCVNDD LVAKNFAYYV SPMGNKNLNP LEKPRQSLNS VTCSSKLSPS LTLWPMLLQG KDYHRMENKA LNYKDSLTD S PKMMLEKQQQ SLPLKHTEKC TESSVYWPTK RGITIYADPD VPSVSGSSQR PNEKPLRLTE KKDCDEKNGC VKLLQFLNPD PLRADGTSDL HQLQVKVLTG LQPGVVLNRN IEPCLTLEKS PLSADLKKMA LTCLNSDTE MKVAMEEMIP PEALQRNKFP GPSHTASYSW PPIARGCDMV VISHCGNDPL LYLPLLTL QMGGCYKSLP SRNGPLAVIV CPGWKAQFI FELLGDYSMS SRPLHPVLLT IGLHKDEAKN MKLPRGCDVI VTPHSLRL LTYRLLFLR LCHLVLDEVH MLFFEANEQM FAILDNFKKN VEVEERESAP HQIVAVGVHW NKHIDHLVRE FMKDPCVVIT ALEEAALYGS VQVVLHLCLE CEKTSTLLQV LDFVPSQAQK TLIFTCSVAE TETVCKGSPA EQGDKKTKSV LLLTERNASH AVGILRYLER

Product Details

ADAKIPSELY EFTAGVLEAK EDKKARRPLC PYLKAFGFCK DKRICPDRHH INPEMDIPRK
LSNKTLPVFG HIRVIPFYIS NATNYFGRII DKHVDLYETL NAEMNEYFKE SSNKTSAEKV
ENLGLYGLEE KTLFQRVQVL EVSQKEDTWG LGSILVKLID EGRTKLITRD QLLLLPEKFH
TLPPQAVEFI VCRVKPADSE IEWNPKVTRY IHHKIVGKMH DAKVVLALGN TLWIDPMVHV
TKLSNLKTSI IDYNVRAEIL SMGMGIDNSE HLEQLKKLYK EAKLPAFEDL PCQTSIPTTV
EDTVCLQGTQ QGDGGTERGA GSQEDSDNQK PGVLSIEDIGS ETISSAPQPH GRSFHPQIKW
FQKDDVVILK IKIRNVKDYK CKFFTDRVIF SAWVGDKFYL ADLELQGDIDR KDDCKCIKD
DEPLITLAKE KQECWCGLLK QRNPNVAFDF DHWEECEEDS PFSKVVNSKN LSCKVAALAE
SSGSSSDTTD GSESE **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:

- 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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: TDRD12

Alternative Name: Tdrd12 ([TDRD12 Products](#))

Target Details

Background: Putative ATP-dependent RNA helicase TDRD12 (EC 3.6.4.13) (ES cell-associated transcript 8 protein) (Tudor domain-containing protein 12),FUNCTION: Probable ATP-binding RNA helicase required during spermatogenesis to repress transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons (PubMed:24067652). Involved in the secondary piRNAs metabolic process (PubMed:24067652). Acts via the PET complex, a multiprotein complex required during the secondary piRNAs metabolic process for the PIWIL2 slicing-triggered loading of PIWIL4 piRNAs (PubMed:26669262). {ECO:0000269|PubMed:24067652, ECO:0000269|PubMed:26669262}.

Molecular Weight: 137.6 kDa

UniProt: [Q9CWU0](#)

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.

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