Datasheet for ABIN7563640

# TDRD9 Protein (AA 1-1383) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | TDRD9 |
| Protein Characteristics: | AA 1-1383 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This TDRD9 protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant Tdrd9 Protein expressed in mammalian cells. |
| Sequence: | MLRKLTVDQI NDWFTIGKTV TNVELLGLPP AFPAEAPREE VQRSEEVPNE DPTAQAQVPV KATAPARPAS TSGRSLSQRS SEMEYINKYR QLEEQELDIY GQDQPPSGPG LRSPLAKLSN VACIPETTYK YPDLPINRCK EEVISLIESN SVVIIHGATG SGKSTQLPQY VLDHYTQRSA FCNIVVTQPR KIGASSIARW ISKERSWTLG GLVGYQVGLE KIATEDTRLI YMTTGVLLQK IVSAKSLMEF THIFIDEVHE RTEEMDFLLL VVRKLLRTNS RFVKVVLMSA TINCKQFADY FAVPVQNKMN PAYVFEVEGK PHAIEEYYLN DLGHIYHSGL PYRLEEPVIT KDVYEVAVSL IQMFDDLDMK ESGNKTWSGA QFVSERSSVL VFLPGLGEIN YMHELLTNMI HKRLQVYPLH SSVTLEEQNN VFLSPVPGYR KIILSTNIAE SSVTVPDVKY VIDFCLTRTL VCDEDTNYQS LRLSWASKTS CDQRKGRAGR VSKGYCYRLI PRDFWDSAIP DHVVPEMLRC PLGSTILKVK LLDMGEPRAL LATALSPPSL SDIERTILLL KEVGALAVSG QREDENPHDG ELTFLGRVLA QLPVSQQLGK LVVLGHVFGC LDECLIIAAA LSLKNFFTMP FRQHLDGYRN KVHFSGSSRS DCLALVEAFR AWQACRQRGE LRRPKDELDW GRLNYIQIKR IREVAELYEE LKNRISQFNM |

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| | FVGPHHPVLD QEYPYKQRFI LQVVLAGAFY PNYFTFGQPD EEMAVRELAG KDPKTTVVLK HIPPYGFLYY KQLQSLFRQC GQVKSIVFDG AKAFVEFSRN PTERFKTLPA VNLAVKMSQL KVSLELSVHA AEEIEGKVQG GSVSKLRNTR VNVDFQKQTV DPMQVSFNTL DRPRTVADLL LTIDVTEVVE VGHFWGYRID ERNAELLKQL TAEINRLELV PLPIHPHPDL VCLAPFTDYN KESYFRAQIL YVSGNSAEVF FVDYGNRSHV DLDLLREIPC QFLELPFQAL EFKICKMRPS AKSLICGEHW SGGAHGRFAA LVGGCPLLVK VFSIVHSVLH VDVYRYSGAQ DAVNVRDVLI REGYAELAEE SYESKQSYEV LKGFFAKSVD TMPDGSVSSP LKDDEKHLLR ILLESFASNR LGAPNCKAVL HGPFNPYELK CHSLTRISKF RCVWIEKESI NSVVISDSPA DLHQRMLVAA SLSVNETGST MLLRETSLMP HIPGLPALLS MLFAPVMELR VDREGKCYTG VLCGLGWNSA TEAPILPEHD IELAFDVRLN VEDIVEINIL RAAINKLVCD GPNGSKYLGP ERIAQLQENA RQKLLGLFCR LKPREKITPQ WHEKPYEWNQ VDPRLIMEQA EPEGSPGKST SLYQLHTPVV LSP<br>**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:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalian cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>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

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| Target: | TDRD9 |
| Alternative Name: | Tdrd9 (TDRD9 Products) |
| Background: | ATP-dependent RNA helicase TDRD9 (EC 3.6.4.13) (Tudor domain-containing protein 9),FUNCTION: ATP-binding RNA helicase which plays a central role during spermatogenesis by repressing transposable elements and preventing their mobilization, which is essential for the germline integrity (PubMed:20059948, PubMed:28633017). 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:20059948, PubMed:28633017). Acts downstream of piRNA biogenesis: exclusively required for transposon silencing in the nucleus, suggesting that it acts as a nuclear effector in the nucleus together with PIWIL4 (PubMed:28633017). {ECO:0000269\|PubMed:20059948, ECO:0000269\|PubMed:28633017}. |
| Molecular Weight: | 156.0 kDa |
| UniProt: | Q14BI7 |

## 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 |