Datasheet for ABIN3095867

TDRD9 Protein (AA 1-1382) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	TDRD9
Protein Characteristics:	AA 1-1382
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TDRD9 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MLRKLTIEQI NDWFTIGKTV TNVELLGAPP AFPAGAAREE VQRQDVAPGA GPAAQAPALA QAPARPAAAF ERSLSQRSSE VEYINKYRQL EAQELDVCRS VQPTSGPGPR PSLAKLSSVT CIPGTTYKYP DLPISRYKEE VVSLIESNSV VIIHGATGSG KSTQLPQYIL DHYVQRSAYC SIVVTQPRKI GASSIARWIS KERAWTLGGV VGYQVGLEKI ATEDTRLIYM TTGVLLQKIV SAKSLMEFTH IIIDEVHERT EEMDFLLLVV RKLLRTNSRF VKVVLMSATI SCKEFADYFA VPVQNKMNPA YIFEVEGKPH SVEEYYLNDL EHIHHSKLSP HLLEEPVITK DIYEVAVSLI QMFDDLDMKE SGNKAWSGAQ FVLERSSVLV FLPGLGEINY MHELLTSLVH KRLQVYPLHS SVALEEQNNV FLSPVPGYRK IILSTNIAES SVTVPDVKYV IDFCLTRTLV CDEDTNYQSL RLSWASKTSC NQRKGRAGRV SRGYCYRLVH KDFWDNSIPD HVVPEMLRCP LGSTILKVKL LDMGEPRALL ATALSPPGLS DIERTILLLK EVGALAVSGQ REDENPHDGE LTFLGRVLAQ LPVNQQLGKL IVLGHVFGCL DECLIIAAAL SLKNFFAMPF RQHLDGYRNK VNFSGSSKSD CIALVEAFKT WKACRQTGEL RYPKDELNWG RLNYIQIKRI REVAELYEEL KTRISQFNMH

	VDSRRPVMDQ EYIYKQRFIL QVVLAGAFYP NYFTFGQPDE EMAVRELAGK DPKTTVVLKH IPPYGFLYYK QLQSLFRQCG QVKSIVFDGA KAFVEFSRNP TERFKTLPAV YMAIKMSQLK VSLELSVHSA EEIEGKVQGM NVSKLRNTRV NVDFQKQTVD PMQVSFNTSD RSQTVTDLLL TIDVTEVVEV GHFWGYRIDE NNSEILKKLT AEINQLTLVP LPTHPHPDLV CLAPFADFDK QRYFRAQVLY VSGNSAEVFF VDYGNKSHVD LHLLMEIPCQ FLELPFQALE FKICKMRPSA KSLVCGKHWS DGASQWFASL VSGCTLLVKV FSVVHSVLHV DVYQYSGVQD AINIRDVLIQ QGYAELTEES YESKQSHEVL KGLFSKSVEN MTDGSVPFPM KDDEKYLIRI LLESFSTNKL GTPNCKAELH GPFNPYELKC HSLTRISKFR CVWIEKESIN SVIISDAPED LHQRMLVAAS LSINATGSTM LLRETSLMPH IPGLPALLSM LFAPVIELRI DQNGKYYTGV LCGLGWNPAT GASILPEHDM ELAFDVQFSV EDVVEVNILR AAINKLVCDG PNGCKCLGPE RVAQLQDIAR QKLLGLFCQS KPREKIVPKW HEKPYEWNQV DPKLVMEQAD RESSRGKNTF LYQLHKLVVL GT **Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human TDRD9 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • 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 will ensure that you receive a correctly folded protein. 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. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

Product Details

	1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	TDRD9
Alternative Name:	TDRD9 (TDRD9 Products)
Background:	Probable 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. 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 govern the methylation and subsequent repression of transposons. Its association with PIWIL4 and the piP-bodies suggests a participation in the secondary piRNAs metabolic process (By similarity). {ECO:0000250}.
Molecular Weight:	156.6 kDa Including tag.
UniProt:	Q8NDG6

Application Details

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 gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images

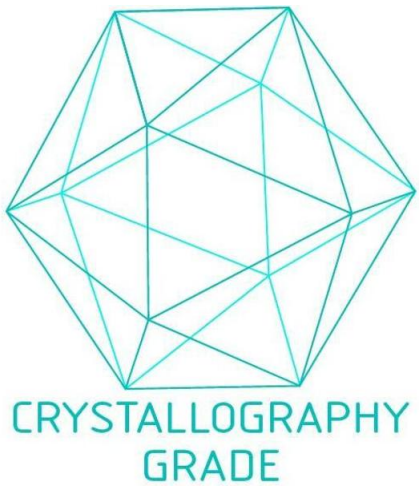

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process