Datasheet for ABIN7553664

DHX16 Protein (AA 1-1041) (His tag)

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Overview

Quantity:	1 mg
Target:	DHX16
Protein Characteristics:	AA 1-1041
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DHX16 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant DHX16 Protein expressed in mammalian cells.
Sequence:	MATPAGLERW VQDELHSVLG LSERHVAQFL IGTAQRCTSA EEFVQRLRDT DTLDLSGPAR DFALRLWNKV PRKAVVEKPA RAAEREARAL LEKNRSYRLL EDSEESSEET VSRAGSSLQK KRKKRKHLRK KREEEEEEEA SEKGKKKTGG SKQQTEKPES EDEWERTERE RLQDLEERDA FAERVRQRDK DRTRNVLERS DKKAYEEAQK RLKMAEEDRK AMVPELRKKS RREYLAKRER EKLEDLEAEL ADEEFLFGDV ELSRHERQEL KYKRRVRDLA REYRAAGEQE KLEATNRYHM PKETRGQPAR AVDLVEEESG APGEEQRRWE EARLGAASLK FGARDAASQE PKYQLVLEEE ETIEFVRATQ LQGDEEPSAP PTSTQAQQKE SIQAVRRSLP VFPFREELLA AIANHQVLII EGETGSGKTT QIPQYLFEEG YTNKGMKIAC TQPRRVAAMS VAARVAREMG VKLGNEVGYS IRFEDCTSER TVLRYMTDGM LLREFLSEPD LASYSVVMVD EAHERTLHTD ILFGLIKDVA RFRPELKVLV ASATMDTARF STFFDDAPVF RIPGRRFPVD IFYTKAPEAD YLEACVVSVL QIHVTQPPGD ILVFLTGQEE IEAACEMLQD RCRRLGSKIR ELLVLPIYAN LPSDMQARIF QPTPPGARKV VVATNIAETS LTIEGIIYVL DPGFCKQKSY NPRTGMESLT VTPCSKASAN

Product Details

	QRAGRAGRVA AGKCFRLYTA WAYQHELEET TVPEIQRTSL GNVVLLLKSL GIHDLMHFDF LDPPPYETLL LALEQLYALG ALNHLGELTT SGRKMAELPV DPMLSKMILA SEKYSCSEEI LTVAAMLSVN NSIFYRPKDK VVHADNARVN FFLPGGDHLV LLNVYTQWAE SGYSSQWCYE NFVQFRSMRR ARDVREQLEG LLERVEVGLS SCQGDYIRVR KAITAGYFYH TARLTRSGYR TVKQQQTVFI HPNSSLFEQQ PRWLLYHELV LTTKEFMRQV LEIESSWLLE VAPHYYKAKE LEDPHAKKMP KKIGKTREEL G **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:	DHX16
Alternative Name:	DHX16 (DHX16 Products)
Background:	Pre-mRNA-splicing factor ATP-dependent RNA helicase DHX16 (EC 3.6.4.13) (ATP-dependent RNA helicase #3) (DEAH-box protein 16),FUNCTION: Required for pre-mRNA splicing as component of the spliceosome (PubMed:20423332, PubMed:20841358, PubMed:25296192,

Target Details

	PubMed:29360106). Contributes to pre-mRNA splicing after spliceosome formation and prior to the first transesterification reaction. As a component of the minor spliceosome, involved in the splicing of U12-type introns in pre-mRNAs (Probable). Plays also a role in innate antiviral response by acting as a pattern recognition receptor sensing splicing signals in viral RNA (PubMed:35263596). Mechanistically, TRIM6 promotes the interaction between unanchored 'Lys-48'-polyubiquitin chains and DHX16, leading to DHX16 interaction with RIGI and ssRNA to amplify RIGI-dependent innate antiviral immune responses (PubMed:35263596). {ECO:0000269|PubMed:20423332, ECO:0000269|PubMed:20841358, ECO:0000269|PubMed:25296192, ECO:0000269|PubMed:29360106, ECO:0000269|PubMed:35263596, ECO:0000305|PubMed:33509932}.
Molecular Weight:	119.3 kDa
UniProt:	O60231

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