Datasheet for ABIN7553656

DHX37 Protein (AA 1-1157) (His tag)

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Overview

Quantity:	1 mg
Target:	DHX37
Protein Characteristics:	AA 1-1157
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DHX37 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant DHX37 Protein expressed in mammalian cells.
Sequence:	MGKLRRRYNI KGRQQAGPGP SKGPPEPPPV QLELEDKDTL KGVDASNALV LPGKKKKKTK APPLSKKEKK PLTKKEKKVL QKILEQKEKK SQRAEMLQKL SEVQASEAEM RLFYTTSKLG TGNRMYHTKE KADEVVAPGQ EKISSLSGAH RKRRRWPSAE EEEEEEEESE SELEEESELD EDPAAEPAEA GVGTTVAPLP PAPAPSSQPV PAGMTVPPPP AAAPPLPRAL AKPAVFIPVN RSPEMQEERL KLPILSEEQV IMEAVAEHPI VIVCGETGSG KTTQVPQFLY EAGFSSEDSI IGVTEPRRVA AVAMSQRVAK EMNLSQRVVS YQIRYEGNVT EETRIKFMTD GVLLKEIQKD FLLLRYKVVI IDEAHERSVY TDILIGLLSR IVTLRAKRNL PLKLLIMSAT LRVEDFTQNP RLFAKPPPVI KVESRQFPVT VHFNKRTPLE DYSGECFRKV CKIHRMLPAG GILVFLTGQA EVHALCRRLR KAFPPSRARP QEKDDDQKDS VEEMRKFKKS RARAKKARAE VLPQINLDHY SVLPAGEGDE DREAEVDEEE GALDSDLDLD LGDGGQDGGE QPDASLPLHV LPLYSLLAPE KQAQVFKPPP EGTRLCVVAT NVAETSLTIP GIKYVVDCGK VKKRYYDRVT GVSSFRVTWV SQASADQRAG RAGRTEPGHC YRLYSSAVFG DFEQFPPPEI TRRPVEDLIL QMKALNVEKV INFPFPTPPS

Product Details

	VEALLAAEEL LIALGALQPP QKAERVKQLQ ENRLSCPITA LGRTMATFPV APRYAKMLAL SRQHGCLPYA ITIVASMTVR ELFEELDRPA ASDEELTRLK SKRARVAQMK RTWAGQGASL KLGDLMVLLG AVGACEYASC TPQFCEANGL RYKAMMEIRR LRGQLTTAVN AVCPEAELFV DPKMQPPTES QVTYLRQIVT AGLGDHLARR VQSEEMLEDK WRNAYKTPLL DDPVFIHPSS VLFKELPEFV VYQEIVETTK MYMKGVSSVE VQWIPALLPS YCQFDKPLEE PAPTYCPERG RVLCHRASVF YRVGWPLPAI EVDFPEGIDR YKHFARFLLE GQVFRKLASY RSCLLSSPGT MLKTWARLQP RTESLLRALV AEKADCHEAL LAAWKKNPKY LLAEYCEWLP QAMHPDIEKA WPPTTVH **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:	DHX37
Alternative Name:	DHX37 (DHX37 Products)
Background:	Probable ATP-dependent RNA helicase DHX37 (EC 3.6.4.13) (DEAH box protein 37),FUNCTION:

Target Details

	ATP-binding RNA helicase that plays a role in maturation of the small ribosomal subunit in ribosome biogenesis (PubMed:30582406). Required for the release of the U3 snoRNP from pre-ribosomal particles (PubMed:30582406). Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed:34516797). Plays a role in early testis development (PubMed:31287541, PubMed:31337883). Probably also plays a role in brain development (PubMed:31256877). {ECO:0000269|PubMed:30582406, ECO:0000269|PubMed:31256877, ECO:0000269|PubMed:31287541, ECO:0000269|PubMed:31337883, ECO:0000269|PubMed:34516797}.
Molecular Weight:	129.5 kDa
UniProt:	Q8IY37

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