

# Recombinant Human HLA-B Associated Transcript 1, His-tagged

**Cat. No.** BAT1-789H    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant human BAT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 51.1 (448aa), confirmed by MALDI-TOF.

**Species**                      Human

**Source**                        E.coli

**Description**                BAT1, also known as UAP56, is a member of the DEAD box family of RNA-dependent ATPases that mediate ATP hydrolysis during pre-mRNA splicing. This protein is an essential splicing factor required for association of U2 small nuclear ribonucleoprotein with pre-mRNA, and also plays an important role in mRNA export from the nucleus to the cytoplasm. Mutations in this protein may be associated with rheumatoid arthritis.

**Sequences Of Amino Acids**      MGSSHHHHH SGLVPRGSH MAENDVDNEL LDYEDDEVET AAGGDGAEAP  
 AKKDVKGSYV SIHSSGFRDF LLKPELLRAI VDCGFEHPSE VQHECIPQAI  
 LGMDVLCQAK SGMGKTAVFV LATLQQLEPV TGQVSVLVMC HTRELAFQIS  
 KEYERFSKYM PNVKVAFFFG GLSIKKDEEV LKKNCPHIVV GTPGRILALA  
 RNKSLNLKHI KHFILDECDK MLEQLDMRRD VQEIFRMPH EKQVMMFSAT  
 LSKEIRPVCR KFMQDPMEIF VDEETKLTLH GLQQYYVKLK DNEKNRKLFD  
 LLDVLEFNQV VIFVKSQRC IALAQLLVEQ NFPAIAIHRG MPQEERLSRY  
 QQFKDFQRR I LVATNLFGRG MDIERVNI AF NYDMPEDSDT YLHRVARAGR

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FGTKGLAITF VSDENDAKIL NDVQDRFEVN ISELPDEIDI SSYIEQTR

<b>Purity</b>	> 90% by SDS – PAGE.
<b>Form</b>	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl,1mM DTT.
<b>Concentration</b>	0.5 mg/ml (determined by Bradford assay).
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">BAT1 HLA-B associated transcript 1 [ Homo sapiens ]</a>
<b>Synonyms</b>	BAT1; HLA-B associated transcript 1; UAP56; D6S81E; DDX39B; BAT1; spliceosome RNA helicase BAT1; OTTHUMP00000029231; OTTHUMP00000165890; DEAD box protein UAP56; DEAD-box protein UAP56; ATP-dependent RNA helicase p47; 56 kDa U2AF65-associated protein; nuclear RNA helicase (DEAD family); HLA-B-associated transcript 1 protein; DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B; EC 3.6.1.-; EC 3.6.4.13
<b>Gene ID</b>	<a href="#">7919</a>
<b>mRNA Refseq</b>	<a href="#">NM_004640</a>
<b>Protein Refseq</b>	<a href="#">NP_004631</a>
<b>MIM</b>	<a href="#">142560</a>
<b>UniProt ID</b>	<a href="#">Q13838</a>

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<b>Chromosome Location</b>	6p21.3
<b>Pathway</b>	Spliceosome
<b>Function</b>	ATP binding; ; ATP-dependent RNA helicase activity; ATP-dependent protein binding; RNA binding; RNA-dependent ATPase activity; U4 snRNA binding; U6 snRNA binding; helicase activity; hydrolase activity; identical protein binding; nucleotide binding; protein binding

PDB rendering based on 1t5i.



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