

Datasheet for ABIN7553031

CASC3 Protein (AA 1-703) (His tag)



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Overview

Quantity:	1 mg
Target:	CASC3
Protein Characteristics:	AA 1-703
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CASC3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CASC3 Protein expressed in mammalian cells.
Sequence:	<p>MADRRRQRAS QDTEDEESGA SGSDSGGSPL RGGGSCSGSA GGGGSGSLPS QRGGRGTALH</p> <p>LRRVESGGAK SAESECESE DGIEGDAVLS DYESAEDSEG EEEGYSEEN SKVELKSEAN</p> <p>DAVNSSTKEE KGEEKPDTKS TVTGERQSGD GQESTEPVEN KVGKKGPKHL DDEDRKNPA</p> <p>YIPRKGLFFE HDLRGQTQEE EVRPKGRQRK LWKDEGRWEH DKFREDEQAP KSRQELIALY</p> <p>GYDIRSAHNP DDIKPRRIRK PRYGSPPQRD PNWNGERLNK SHRHQGLGGT LPPRTFINRN</p> <p>AAGTGRMSAP RNYSRSGGFK EGRAGFRPVE AGGQHGGRSR ETVKHEISYR SRRLEQTSVR</p> <p>DPSPEADAPV LGSPEKEEAA SEPPAAAPDA APPPPDRPIE KKSYSRARRT RTKVGVDAVKL</p> <p>AEVPPPPPEG LIPAPPVPET TPTPPTKTGT WEAPVDSSTS GLEQDVAQLN IAEQNWSPGQ</p> <p>PSFLQPRELR GMPNHIHMGA GPPPQFNRM EMGVQGGRAK RYSSQRQRPV PEPPAPPVHI</p> <p>SIMEGHYYDP LQFQGPIYTH GDSPAPLPPQ GMLVQPGMNL PHPGLHPHQT PAPLPNPGLY</p> <p>PPPVSMSPGQ PPPQQLLAPT YFSAPGVMNF GNPSYPYAPG ALPPPPPPHL YPNTQAPSQV</p> <p>YGGVTYYNPA QQQVQPKPSP PRRTQPVTI KPPPPEVVS R GSS Sequence without tag. The</p>

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.
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Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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).
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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)
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Grade:	custom-made
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Target Details

Target:	CASC3
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Alternative Name:	CASC3 (CASC3 Products)
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Background:	<p>Protein CASC3 (Cancer susceptibility candidate gene 3 protein) (Metastatic lymph node gene 51 protein) (MLN 51) (Protein barentsz) (Btz),FUNCTION: Required for pre-mRNA splicing as component of the spliceosome (PubMed:28502770, PubMed:29301961). Core component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junctions on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. The EJC marks the position of the exon-exon junction in the mature mRNA for the gene expression machinery and the core</p>
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Target Details

components remain bound to spliced mRNAs throughout all stages of mRNA metabolism thereby influencing downstream processes including nuclear mRNA export, subcellular mRNA localization, translation efficiency and nonsense-mediated mRNA decay (NMD). Stimulates the ATPase and RNA-helicase activities of EIF4A3. Plays a role in the stress response by participating in cytoplasmic stress granules assembly and by favoring cell recovery following stress. Component of the dendritic ribonucleoprotein particles (RNPs) in hippocampal neurons. May play a role in mRNA transport. Binds spliced mRNA in sequence-independent manner, 20-24 nucleotides upstream of mRNA exon-exon junctions. Binds poly(G) and poly(U) RNA homomer. {ECO:0000269|PubMed:17375189, ECO:0000269|PubMed:17652158, ECO:0000269|PubMed:28502770, ECO:0000269|PubMed:29301961}.

Molecular Weight: 76.3 kDa

UniProt: [O15234](#)

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