

Datasheet for ABIN7554187
INTS3 Protein (AA 1-1043) (His tag)



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Overview

Quantity:	1 mg
Target:	INTS3
Protein Characteristics:	AA 1-1043
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This INTS3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat INTS3 Protein expressed in mammalien cells.
Sequence:	MELQKKGKAA AAAAASGAAG GGGGGAGAGA PGGRRLLST SLDAKDELEE RLERCMSIVT SMTAGVSERE ANDALNAYVC KGLPQHEEIC LGLFTLILTE PAQAQKCYRD LALVSRDGMN IVLNKINQIL MEKYLKLQDT CRTQLVWLVR ELVKSGVLGA DGVCMTFMKQ IAGGGDVTAK NIWLAESVLD ILTEQREWVL KSSILIAMAV YTYLRLIVDH HGTAQLQALR QKEVDFCISL LRERFMECLM IGRDLVRLQ NVARIPEFEL LWKDIIHNPQ ALSPOFTGIL QLLQSRTSRK FLACRLTPDM ETKLLFMTSR VRFQKQRYQ DWFQRQYLST PDSQSLRCDL IRYICGVVHP SNEVLSSDIL PRWAIIGWLL TTCTSNAVAS NAKLALFYDW LFFSPDKDSI MNIEPAILVM HHSMKPHPAI TATLLDFMCR IIPNFYPPLE GHVRQGVFSS LNHIVEKRVL AHLAPLFDNP KLDKELRAML REKFPEFCSS PSPPEVKIE EPVSMEMDNH MSDKDESCYD NAEAAFSDDE EDLNSKGKKR EFRFHPIKET VVEEPVDITP YLDQLDESLR DKVLQLQKGS DTEAQCEVMQ EIVDQVLEED FDSEQLSVLA SCLQELFKAH FRGEVLP EEI TEESLEESVG KPLYLIFRNL

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CQMVEDNSSF SLLLDLSEL YQKQPKIGYH LLYLRASKA AAGKMNLYES FAQATQLGDL
HTCLMMDMKA CQEDDVRLLC HLTPSIYTEF PDETLRSGEL LNMIVAVIDS AQLQELVCHV
MMGNLVMFRK DSVLNILIQS LDWETFQYC AWQLFLAHNI PLETIIPILQ HLKYKEHPEA
LSCLLLQLRR EKPSEEMVKM VLSRPCHPDD QFTTSILRHW CMKHDELLAE HIKSLLIKNN
SLPRKRQSLR SSSSKLAQLT LEQILEHLDN LRLNLTNTKQ NFFSQTPILQ ALQHVQASCD
EAHKMKFSDL FSLAEEYEDS STKPPKSRRK AALSSPRSRK NATQPPNAEE ESGSSSASEE
EDTKPKPTKR KRKGSSAVGS DSD **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.**

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, Western Blot

Grade:

custom-made

Target Details

Target:

INTS3

Alternative Name:

INTS3 ([INTS3 Products](#))

Background:

Integrator complex subunit 3 (Int3) (SOSS complex subunit A) (Sensor of single-strand DNA complex subunit A) (SOSS-A) (Sensor of ssDNA subunit A),FUNCTION: Component of the Integrator (INT) complex. The Integrator complex is involved in the small nuclear RNAs (snRNA) U1 and U2 transcription and in their 3'-box-dependent processing. The Integrator complex is

Target Details

associated with the C-terminal domain (CTD) of RNA polymerase II largest subunit (POLR2A) and is recruited to the U1 and U2 snRNAs genes (Probable). Mediates recruitment of cytoplasmic dynein to the nuclear envelope, probably as component of the INT complex (PubMed:23904267). {ECO:0000269|PubMed:23904267, ECO:0000305|PubMed:16239144}.
FUNCTION: Component of the SOSS complex, a multiprotein complex that functions downstream of the MRN complex to promote DNA repair and G2/M checkpoint. The SOSS complex associates with single-stranded DNA at DNA lesions and influences diverse endpoints in the cellular DNA damage response including cell-cycle checkpoint activation, recombinational repair and maintenance of genomic stability. The SOSS complex is required for efficient homologous recombination-dependent repair of double-strand breaks (DSBs) and ATM-dependent signaling pathways. In the SOSS complex, it is required for the assembly of the complex and for stabilization of the complex at DNA damage sites. {ECO:0000269|PubMed:19605351, ECO:0000269|PubMed:19683501}.

Molecular Weight: 118.1 kDa

UniProt: [Q68E01](#)

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 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