

Datasheet for ABIN3135930

INTS3 Protein (AA 1-1041) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	INTS3
Protein Characteristics:	AA 1-1041
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This INTS3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MELQKGKGTV AAAASGAAGG GGGGAGAGAP GGGRLLSTLS LDKDELEER LERCMSIVTS</p> <p>MTAGVSEREA NDALNAYVCK GPPQHEEICL GLFTLVLTPE AQAQKCYRDL ALVSRDGMNI</p> <p>VLNKNQLLM EKYLKLQDTC RTQLVWLVR LKSGVLGAD GVCMTFMKQI AGGDVTAKNI</p> <p>WLAESVLDIL TEQREWVLKS SILIAMAVYT YLRLLVDHGH TAQLQTLRQK EVDFCISLLR</p> <p>ERFMECLMIG RDLVRLQNV ARIPEFELLW KDIIHNPQAL SPQFTGILQL LQSRTSRKFL</p> <p>ACRLTPDMET KLLFMTSRVR FGQKRYQDW FQRQYLSTPD SSQLRCDLIR YICGVVHPSN</p> <p>EVLSSDILPR WAIIGWLLTT CTSNVAASNA KLALFYDWLF FSPEKDSIMN IEPAILVMHH</p> <p>SMKPHPAITA TLLDFMCRII PNFYPPLEGH VRQGVFSSLN HIVEKRVLAH LAPLFDNPKL</p> <p>DKELRSMLRE KFPEFCSSPS PPVEVKIEEP VSMEMDNHLS DKDESCYDNA EAAFSDDEED</p> <p>LNSKGKKREF RFHPIKETVV EEPVDVTPYL DQLDESLRDK VLQLQKGSMT EAQCEVMQEI</p> <p>VDQVLEEDFD SEQLSVLASC LQELFKAHFR GEVLPEEVTE ESLEESVGKP LYLIIFRNLCQ</p>

MQEDNSSFSL LLDLSELYQ KQPKIGYHLL YYLRASKAAA GKMNLYESFA QATQLGDLHT
CLMMDMKACQ EDDVRLCHL TPSIYTEFPD ETLRSGELLN MIVAVIDSAQ LQELVCHVMM
GNLVMFRKDS VLNILIQSLD WETFEQYCAW QLFLAHNIPL ETIIPILQHL KYKEHPEALS
CLLLQLRREK PSEEMVKMVL SRPCHPDDQF TTSILRHWCM KHEDELLAEHI KALLIKNNSL
PRKRQSLRSS SSKLAQLTLE QILEHLDNLR LNLANTKQNF FSQTPILQAL QHVQASCDEA
HKMKFSDLFS LAEEYEDSST KPPKSRRKAA LSSPRSRKNA TQPPNAEEES GSSSASEEED
TKPKPTKRKR KGSSAVGSDS D

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.

Product Details

- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	INTS3
Alternative Name:	Ints3 (INTS3 Products)
Background:	<p>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 associated with the C-terminal domain (CTD) of RNA polymerase II largest subunit (POLR2A) and is recruited to the U1 and U2 snRNAs genes. Mediates recruitment of cytoplasmic dynein to the nuclear envelope, probably as component of the INT complex.</p> <p>{ECO:0000250 UniProtKB:Q68E01}., 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.</p> <p>{ECO:0000250 UniProtKB:Q68E01}.</p>
Molecular Weight:	117.9 kDa
UniProt:	Q7TPD0

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
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Application Details

as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment:

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During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions:

For Research Use only

Handling

Format:

Liquid

Buffer:

The buffer composition is at the discretion of the manufacturer.

Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice:

Avoid repeated freeze-thaw cycles.

Storage:

-80 °C

Storage Comment:

Store at -80°C.

Expiry Date:

12 months