

Datasheet for ABIN3135727

NFKBIL2 Protein (AA 1-1363) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	NFKBIL2
Protein Characteristics:	AA 1-1363
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NFKBIL2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MTLEQELRQL SKAKTRAQRN GQLREEAAYC HQLGELLASH GRFKDALEEH QQELHLLSV</p> <p>QDTLGCAVAH RKIGERLAEM ENYSAALKHQ HLYDLAGSL SNHTELQRAW ATIGRTHLDI</p> <p>YDHCQSRDSL LQAQAFAFEK LAIVDEKLEG MLTQRELSM RTRLNGL TCESLQQTAL</p> <p>CNNYFKKSIF LAEQNHLYED LFRARYNLGA IHWRGGQHSQ AMRCLEGARE CARAMKMRFM</p> <p>ESECCVLVSQ VLQDLGDFLA AKRALKKAYR LGSQKPNQRV TVCQSLKYVL AVIQLQQQLE</p> <p>EAEGNDLQGA MAICEQLGDL FSKAGDFPKA AEAYQKQLHL AELLNRPDL LAVIHVSLAT</p> <p>TLGDMKDHRR AVHHYEEELR LRKGNALAEA KTFWNIALSR EEAGDAYELL APCFQKAFCC</p> <p>AQQAQRFQLQ RQILQHLYTV QKLQPQEAR DTEIRLQELS MAKDTEEEEE EEEEEEEAS</p> <p>EAPETSELEL SESEDDADGL SQQLEEDEEL QGCVGRRKVN KWNRRNDMGE TLLHRACIEG</p> <p>QLRRVQDLVK QGHPLNPRDY CGWTPLHEAC NYGHLEIVRF LLDHGA AVDD PGGQGCDGIT</p> <p>PLHDALNCGH FEVAELLIER GASVTLRTRK GLSPLETQQ VVKLYFRDLD LETRQKAATM</p>

EERLQMASSG QASRSSPALQ TIPSNHLFDP ETSPSSPCP EPSSYTPRPP EASPAPAKVF
LEETVSAVSR PRKTRHRPTS SSSSEDEDN PSPCRPSQKR LRHTTQQGEV KIPDPPKSRE
TATSSACRAA YQAAIRGVGS AQSRRLVPSL PRGSEEVPAK KTALEPEEEY LAGEWLEVDT
PLTRSGRPST SVSDYERCPA RPRTRVKQSR LTSLDGWCAR TQAGDGSLNA EPAENPSVPR
TSGPNKENYA AGQPLLLVQP PPIRVRVQIQ DNLFLIPVPQ SDIRPVAWLT EQAAQRYFQT
CGLLPRLTLR KDGALLAPQD PIPDVLQSDN EVLAEVTSWD LPPLKDRYRR ACLSLGQGEH
QQVLHAMDHQ SSSPSFSACS LALCQAQLTP LLRALKLHTA LRELRLAGNR LGDACATELL
ATLGTTPNLV LLDLSSNHLG QEGLRQLVEG SSGQAALQNL EELDLSMNPL GDGCGQALAS
LLRACPMLST LRLQACGFSS SFFLSHQAAL GGAQFQDAVHL KTLSLSYNLL GAPALARVLQ
TLPACTLKRL DLSSVAASKS NSGIIPEVIK YLTKEGCALA HLTLSANCLG DKAVRELSRC
LPCCPSLTSL DLSANPEVSC ASLEELLSAL QERSQGLSFL GLSGCSIQGP LNSDLWDKIF
VQLQELQLCT KDLSTKDRDS VCQRLPEGAC TMDQSSKLFF KCL

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

Product Details

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.
- 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:	NFKBIL2
Alternative Name:	Tonl (NFKBIL2 Products)
Background:	<p>Tonsoku-like protein (Inhibitor of kappa B-related protein) (I-kappa-B-related protein) (IkappaBR) (NF-kappa-B inhibitor-like protein 2) (Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor-like 2),FUNCTION: Component of the MMS22L-TONSL complex, a complex that promotes homologous recombination-mediated repair of double-strand breaks (DSBs) at stalled or collapsed replication forks. The MMS22L-TONSL complex is required to maintain genome integrity during DNA replication. It mediates the assembly of RAD51 filaments on single-stranded DNA (ssDNA): the MMS22L-TONSL complex is recruited to DSBs following histone replacement by histone chaperones and eviction of the replication protein A complex (RPA/RP-A) from DSBs. Following recruitment to DSBs, the TONSL-MMS22L complex promotes recruitment of RAD51 filaments and subsequent homologous recombination. Within the complex, TONSL acts as a histone reader, which recognizes and binds newly synthesized histones following their replacement by histone chaperones. Specifically binds histone H4 lacking methylation at 'Lys-20' (H4K20me0) and histone H3.1.</p> <p>{ECO:0000250 UniProtKB:Q96HA7}.</p>
Molecular Weight:	151.1 kDa
UniProt:	Q6NZL6

Target Details

Pathways: [Maintenance of Protein Location](#)

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.

Comment: 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!

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