

Datasheet for ABIN3089572

## ASXL2 Protein (AA 1-1435) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	ASXL2
Protein Characteristics:	AA 1-1435
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ASXL2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MREKGRRKKG RTWAEAAKT VLEKYPNTPMS HKEILQVIQR EGLKEIRSGT SPLACLNAML</p> <p>HTNSRGEEGI FYKVPGRMGV YTLKKDVPDG VKELSEGSEE SSDGQSDSQS SENSSSSSDG</p> <p>GSNKEGKKSR WKRKVSSSSP QSGCPSPTIP AGKVISPSQK HSKKALKQAL KQQQKKKQQQ</p> <p>QCRPSISISS NQHLSLKT VKAASDSVPAKP ATWEGKQSDG QTGSPQNSNS SFSSSVKVEN</p> <p>TLLGLGKKS FQRSERLHTRQ MKRTKCADID VETPDSILVN TNLRALINKH TFSVLPGDCQ</p> <p>QRLLLLLPEV DRQVGPDGLM KLNGSALNNE FFTSAAQGWK ERLSEGEFTP EMQVRIRQEI</p> <p>EKEKKVEPWK EQFFESYYGQ SSGLSLEDSK KLTASPSDPK VKKTPAEQPK SMPVSEASLI</p> <p>RIVPVVSQSE CKEEALQMSS PGRKEECESQ GEVQPNFSTS SEPLLSSALN THELSSILPI</p> <p>KCPKDEDLLE QKPVTSAEQE SEKNHLTTAS NYNKSESQES LVTSPSKPKS PGVEKPIVKP</p> <p>TAGAGPQETN MKEPLATLVD QSPESLKRKS SLTQEEAPVS WEKRPRVTEN RQHQQPFQVS</p> <p>PQPFLNRGDR IQVRKVPLK IPVSRISPMP FHPSQVSPRA RFPVSITSPN RTGARTLADI</p>

KAKAQLVKAQ RAAAAAAAAA AAAASVGGTI PGPGGGGQG PEGEGEGQTA RGGSPGSDRV  
SETGKGPTLE LAGTGSRGGT RELLPCGPET QPQSEKTTTP SQAQPHSVSG AQLQQTPPVP  
PTPAVSGACT SVPSPAHEK LDNEKLNPTR ATATVASVSH PQGPSSCRQE KAPSPTGPAL  
ISGASPVHCA ADGTVELKAG PSKNIPNPSA SSKTDASVPV AVTPSPLTSL LTTATLEKLP  
VPQVSATTAP AGSAPPSSTL PAASSLKTPG TSLNMNGPTL RPTSSIPANN PLVTQLLQ GK  
DVPMEQILPK PLTKVEMKTV PLTAKEERGM GALIATNTTE NSTREEVNER QSHPATQQQL  
GKTLQSKQLP QVPRPLQLFS AKELRDSSID THQYHEGLSK ATQDQILQTL IQRVRRQNLL  
SVVPPSQFNF AHSGFQLEDI STSQRFMLGF AGRRTSKPAM AGHYLLNIST YGRGSESFRR  
THSVNPEDRF CLSSPTEALK MGYTDCKNAT GESSSSKEDD TDEESTGDEQ ESVTVKEEPQ  
VSQSAGK GDT SSGPHSRETL STSDCLASKN VKAEIPLNEQ TTL SKENYLF TRGQTFDEKT  
LARDLIQAAQ KQMAHAVRGK AIRSSPELFS STVLPLPADS PTHQPLLLPP LQTPKLYGSP  
TQIGPSYRGM INVSTSSDMD HNSAVPGSQV SSNVGDVMSF SVTVTTIPAS QAMNPSSHGQ  
TIPVQAFSEE NSIEGTPSKC YCRLKAMIMC KGCGAFCHDD CIGPSKLCVS CLVVR

**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.**

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### 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

## Product Details

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.
- 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:	ASXL2
Alternative Name:	ASXL2 ( <a href="#">ASXL2 Products</a> )
Background:	<p>Putative Polycomb group protein ASXL2 (Additional sex combs-like protein 2),FUNCTION: Putative Polycomb group (PcG) protein. PcG proteins act by forming multiprotein complexes, which are required to maintain the transcriptionally repressive state of homeotic genes throughout development. PcG proteins are not required to initiate repression, but to maintain it during later stages of development. They probably act via methylation of histones, rendering chromatin heritably changed in its expressibility (By similarity). Involved in transcriptional regulation mediated by ligand-bound nuclear hormone receptors, such as peroxisome proliferator-activated receptor gamma (PPARG). Acts as coactivator for PPARG and enhances its adipocyte differentiation-inducing activity, the function seems to involve differential recruitment of acetylated and methylated histone H3. {ECO:0000250, ECO:0000269 PubMed:21047783}.</p>
Molecular Weight:	153.8 kDa
UniProt:	<a href="#">Q76L83</a>
Pathways:	<a href="#">Positive Regulation of fat Cell Differentiation</a>

## 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