



[Go to Product page](#)

Datasheet for ABIN3096466

## ZNF609 Protein (AA 1-1411) (Strep Tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	ZNF609
Protein Characteristics:	AA 1-1411
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZNF609 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: MSLSSGASGG KGVDPANPVET YDSGDEWDIG VGNLIIDLDA DLEKDQQKLE MSGSKEVGIP  
 APNAVATLPD NIKFVTPVPG PQGKEGKSKS KRSKSGKDTS KPTPGTSLFT PSEGAASKKE  
 VQGRSGDGAN AGGLVAAIAP KGSEKAAKAS RSVAGSKKEK ENSSSKSKKE RSEGVGTCSE  
 KDPGVLQPVP LGGRGGQYDG SAGVDTGAVE PLGSIAIEPG AALNPLGTKP EPEEGENECR  
 LLKKVKSEKM ESPVSTPAVL PIHLLVPVVN NDISSPCEQI MVRTRSVG VN TCDVALATEP  
 ECLGPCEPGT SVNLEGIVWQ ETEDGMLVVN VTWRNKTYVG TLLDCTRHDW APPRFCDSPT  
 SDLEMRNGRG RGKMRPNSN TPVNETATAS DSKGTSNSSK TRAGANSKGR RGSQNSSEHR  
 PPASSTSEDV KASPSSANKR KNKPLSDMEL NSSSEDSKGS KRVRTNSMGS ATGPLPGTKV  
 EPTVLDNRNCP SPVLIDCPHP NCNKYKHIN GLKYHQAHAAH TDDDSKPEAD GDSEYGEEPI  
 LHADLGSCNG ASVSQKGSLS PARSATPKVR LVEPHSPSPS SKFSTKGLCK KKLSGEGDTD  
 LGALSNDGSD DGPSVMEETS NDAFDSL ERK CMEKEKCKKP SSLKPEKIPS KSLKSARPIA  
 PAIPPQIYT FQTATFTAAS PGSSSGLTAT VAQAMPNSPQ LKPIQPKPTV MGEPFTVNPA

LTPAKDKKKK DKKKKESKE LESPLTPGKV CRAEEGKSPF RESSGDGMKM ELLNGSSDP  
HQSRLASIKA EADKIYSFTD NAPSPSIGGS SRLENTTPTQ PLTPLHVVTQ NGAEASSVKT  
NSPAYSDISD AGEDGEGKVD SVKSKDAEQL VKEGAKKTLF PPQPQSKDSP YYQGFESYYS  
PSYAQSSPGA LNPSSQAGVE SQALKTKRDE EPESIEGKVK NDICEEKKPE LSSSSQQPSV  
IQQRPNMYMQ SLYYNQYAYV PPYGYSDQSY HTHLLSTNTA YRQQYEEQK RQSLEQQQRG  
VDKKAEMGLK EREAALKEEW KQKPSIPPTL TKAPSLTDLV KSGPGKAKEP GADPAKSVII  
PKLDDSSKLP GQAPEGLKVK LSDASHLSKE ASEAKTGAEC GRQAEMDPIL WYRQAEPRM  
WTYVYPAKYS DIKSEDERWK EERDRKLKEE RSRKDSVPK EDGKESTSSD CKLPTSEESR  
LGSKEPRPSV HVPVSSPLTQ HQSYIPYMHG YSYSQSYDPN HPSYRSMPAV MMQNYPGSYL  
PSSYSFSPYG SKVSGGEDAD KARASPSVTC KSSSESKALD ILQHASHYK SKSPTISDKT  
SQERDRGGCG VGGGGSCSS VGGASGGERS VDRPRTSPSQ RLMSTHHHHH HLGYSLLPAQ  
YNLPYAAGLS STAIVASQQG STPSLYPPPR R

**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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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

## Product Details

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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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.</li><li>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li></ol>
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

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## Target Details

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Target:	ZNF609
Alternative Name:	ZNF609 ( <a href="#">ZNF609 Products</a> )
Background:	Zinc finger protein 609,FUNCTION: Transcription factor, which activates RAG1, and possibly RAG2, transcription. Through the regulation of RAG1/2 expression, may regulate thymocyte maturation. Along with NIPBL and the multiprotein complex Integrator, promotes cortical neuron migration during brain development by regulating the transcription of crucial genes in this process. Preferentially binds promoters containing paused RNA polymerase II. Up-regulates the expression of SEMA3A, NRP1, PLXND1 and GABBR2 genes, among others. {ECO:0000250 UniProtKB:Q8BZ47}., FUNCTION: [Isoform 2]: Involved in the regulation of myoblast proliferation during myogenesis. {ECO:0000269 PubMed:28344082}.
Molecular Weight:	151.2 kDa

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## Target Details

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UniProt: [O15014](#)

## Application Details

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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

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process