Datasheet for ABIN3096502

ZNF304 Protein (AA 1-659) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ZNF304
Protein Characteristics:	AA 1-659
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZNF304 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAAAVLMDRV QSCVTFEDVF VYFSREEWEL LEEAQRFLYR DVMLENFALV ATLGFWCEAE HEAPSEQSVS VEGVSQVRTA ESGLFQKAHP CEMCDPLLKD ILHLAEHQGS HLTQKLCTRG LCRRRFSFSA NFYQHQKQHN GENCFRGDDG GASFVKSCTV HMLGRSFTCR EEGMDLPDSS GLFQHQTTYN RVSPCRRTEC MESFPHSSSL RQHQGDYDGQ MLFSCGDEGK AFLDTFTLLD SQMTHAEVRP FRCLPCGNVF KEKSALINHR KIHSGEISHV CKECGKAFIH LHHLKMHQKF HTGKRHYTCS ECGKAFSRKD TLVQHQRVHT GERSYDCSEC GKAYSRSSHL VQHQRIHTGE RPYKCNKCGK AFSRKDTLVQ HQRFHTGERP YECSECGKFF SQSSHLIEHW RIHTGARPYE CIECGKFFSH NSSLIKHRRV HTGARSYVCS KCGKAFGCKD TLVQHQIIHT GARPYECSEC GKAFSRKDTL VQHQKIHTGE RPYECGECGK FFSHSSNLIV HQRIHTGAKP YECNECGKCF SHNSSLILHQ RVHTGARPYV CSECGKAYIS SSHLVQHKKV HTGARPYECS ECGKFFSRNS GLILHQRVHT GEKPYVCSEC GKAYSRSSHL VRHQKAHTGE RAHECNSFGG PLAASLKLV

	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. • 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).

Product Details

Grade:	custom-made

Target Details

Target:	ZNF304
Alternative Name:	ZNF304 (ZNF304 Products)
Background:	Zinc finger protein 304 (KRAB-containing zinc finger protein),FUNCTION: Acts as a transcriptional regulator and plays a role in gene silencing (PubMed:24623306, PubMed:26081979). Probably forms a corepressor complex required for activated KRAS-mediated promoter hypermethylation and transcriptional silencing of several tumor suppressor genes (TSGs) or other tumor-related genes in colorectal cancer (CRC) cells (PubMed:24623306). Also required to maintain a transcriptionally repressive state of genes in undifferentiated embryonic stem cells (ESCs) by inducing trimethylation of 'Lys-27' of histone H3 (H3K27me3) (PubMed:24623306) in a Polycomb group (PcG) complexes-dependent manner. Associates at promoter regions of TSGs and mediates the recruitment of the corepressor complex containing the scaffolding protein TRIM28, methyltransferase DNMT1 and histone methyltransferase SETDB1 and/or the PcG complexes at those sites (PubMed:24623306). Transcription factor involved in the metastatic cascade process by inducing cell migration and proliferation and gain resistance to anoikis of ovarian carcinoma (OC) cells via integrin-mediated signaling pathways (PubMed:26081979). Associates with the ITGB1 promoter and positively regulates beta-1 integrin transcription expression (PubMed:26081979). Promotes angiogenesis (PubMed:26081979). Promotes tumor growth (PubMed:24623306, PubMed:26081979). {ECO:0000269|PubMed:24623306, ECO:0000269|PubMed:26081979}.
Molecular Weight:	75.0 kDa
UniProt:	Q9HCX3

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

Application Details

	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