Datasheet for ABIN3135907

TEX14 Protein (AA 1-1450) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TEX14
Protein Characteristics:	AA 1-1450
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TEX14 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSRGAPFPVP CPVLLGTFTD DSLEAQLHEY AKQGNCVKLK KILKKGVCVD AVNTQGQSAL FVAALLGHVK LVDVLVDYGS DPNHRCFDGS TPVHAAAFSG NQWILSKLLT AGGDLRLHDE KGRNPQAWAL TAGKDRSTQM VEFMQRCTSH MKAIIQGFSY DLLKKIDSPQ RLIGSPPWFG SLIQGSPNSS PNRQLKPGII SAQNIYSFGF GKFYLTSGMQ LTYPGSLPVI GEKEVVQADD EPTFSFFSGP YMVMTNLVWN RSRVTVKELN LPTRPHCSRL RLADLLIAEQ EHSSNLRHPN LLQLMAVCLS RDLEKIRLVY ERITVGTLFS VLHERRSQFP VLHMEVIVHL LLQVADALIY LHSRGFIHRS LSSYAVHIVS AGEARLTNLE YLTESQDSGA HRNVTRMPLP TQLYNWAAPE VVLQKAATVK SDIYSFSVII QEILTDSIPW NGLDGSLVKE TIALGNYLEA DVRLPEPYYD IVKSGIHAKQ KNRTMNLQDI RYILKNDLKE FIGAQKTQPT ESPRGQSYEP HPDVNICLGL TSEYQKDPPD LDIKELKEMG SQPHSPTDHS FLTVKPTLAP QTLDSSLSAQ KPDNANVPSP PAACLAEEVR SPTASQDSLC SFEINEIYSG CLTLGTDKEE ECLGTAASPE GDRPNQGDEL

PSLEEELDKM ERELHCFCEE DKSISEVDTD LLFEDDDWQS DSLGSLNLPE PTREAKGKTS SWSKTDEYVS KCVLNLKISQ VMMQQSAEWL RKLEQEVEEL EWAQKELDSQ CSSLRDASLK FANAKFQPAV GPPSLAYLPP VMQLPGLKQP ENGGTWLTLA RSPGNEREFQ EGHFSKKPEK LSACGWKPFT QVSEESRGDC SELNNQLPTL RGPGKQSTGE QLPSTQEARE SLEKNTNQNS RSMASVSSEI YATKSRNNED NGEAHLKWRL AVKEMAEKAV SGQLLLPPWN PQSSAPFESK VENESTPLPR PPIRGPESTE WQHILEYQRE NDEPKGNTKF GKMDNSDCDK NKHSRWTGLQ RFTGIRYPFF RNHEQPEQNE ASQASCDTSV GTEKFYSTSS PIGDDFERFQ DSFAQRQGYV EENFQIREIF EKNAEILTKP QFQAIQCAED KQDETLGETP KELKEKNTSL TDIQDLSSIT YDQDGYFKET SYKTPKLKHA PTSASTPLSP ESISSAASHY EDCLENTTFH VKRGSTFCWN GQEAMRTLSA KFTTVRERAK SLESLLASSK SLPAKLTDSK RLCMLSETGS SNVSAAFVTS THATKRKSLP RELAEATSQQ HLDELPPPAQ ELLDEIEQLK QQQVSSLASH ENTARDLSVT NKDKKHLEEQ ETNSSKDSSF LSSREIQDLE DTERAHSSLD EDLERFLQSP EENTALLDPT KGSTREKKNK DQDVVEQKRK KKESIKPERR ESDSSLGTLE EDELKPCFWK RLGWSEPSRI IVLDQSDLSD

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

Product Details

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).
Grade:	custom-made

Target Details

Target:	TEX14
Alternative Name:	Tex14 (TEX14 Products)
Background:	Inactive serine/threonine-protein kinase TEX14 (Testis-expressed sequence 14) (Testis-expressed sequence 14 protein),FUNCTION: Required both for the formation of intercellular bridges during meiosis and for kinetochore-microtubule attachment during mitosis. Intercellular bridges are evolutionarily conserved structures that connect differentiating germ cells and are required for spermatogenesis and male fertility. Acts by promoting the conversion of midbodies into intercellular bridges via its interaction with CEP55: interaction with CEP55 inhibits the interaction between CEP55 and PDCD6IP/ALIX and TSG101, blocking cell abscission and leading to transform midbodies into intercellular bridges. Also plays a role during mitosis: recruited to kinetochores by PLK1 during early mitosis and regulates the maturation of the outer kinetochores and microtubule attachment. Has no protein kinase activity in vitro. {ECO:0000269|PubMed:16549803, ECO:0000269|PubMed:19020301, ECO:0000269|PubMed:20176808, ECO:0000269|PubMed:22405274}.
Molecular Weight:	162.5 kDa
UniProt:	Q7M6U3

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

