Datasheet for ABIN3095830

TAF2 Protein (AA 1-1199) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	TAF2
Protein Characteristics:	AA 1-1199
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TAF2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MPLTGVEPAR MNRKKGDKGF ESPRPYKLTH QVVCINNINF QRKSVVGFVE LTIFPTVANL NRIKLNSKQC RIYRVRINDL EAAFIYNDPT LEVCHSESKQ RNLNYFSNAY AAAVSAVDPD AGNGELCIKV PSELWKHVDE LKVLKIHINF SLDQPKGGLH FVVPSVEGSM AERGAHVFSC GYQNSTRFWF PCVDSYSELC TWKLEFTVDA AMVAVSNGDL VETVYTHDMR KKTFHYMLTI PTAASNISLA IGPFEILVDP YMHEVTHFCL PQLLPLLKHT TSYLHEVFEF YEEILTCRYP YSCFKTVFID EAYVEVAAYA SMSIFSTNLL HSAMIIDETP LTRRCLAQSL AQQFFGCFIS RMSWSDEWVL KGISGYIYGL WMKKTFGVNE YRHWIKEELD KIVAYELKTG GVLLHPIFGG GKEKDNPASH LHFSIKHPHT LSWEYYSMFQ CKAHLVMRLI ENRISMEFML QVFNKLLSLA STASSQKFQS HMWSQMLVST SGFLKSISNV SGKDIQPLIK QWVDQSGVVK FYGSFAFNRK RNVLELEIKQ DYTSPGTQKY VGPLKVTVQE LDGSFNHTLQ IEENSLKHDI PCHSKSRRNK KKKIPLMNGE EVDMDLSAMD ADSPLLWIRI DPDMSVLRKV EFEQADFMWQ YQLRYERDVV AQQESILALE KFPTPASRLA LTDILEQEQC FYRVRMSACF CLAKIANSMV STWTGPPAMK

SLFTRMFCCK SCPNIVKTNN FMSFQSYFLQ KTMPVAMALL RDVHNLCPKE VLTFILDLIK YNDNRKNKFS DNYYRAEMID ALANSVTPAV SVNNEVRTLD NLNPDVRLIL EEITRFLNME KLLPSYRHTI TVSCLRAIRV LQKNGHVPSD PALFKSYAEY GHFVDIRIAA LEAVVDYTKV DRSYEELQWL LNMIQNDPVP YVRHKILNML TKNPPFTKNM ESPLCNEALV DQLWKLMNSG TSHDWRLRCG AVDLYFTLFG LSRPSCLPLP ELGLVLNLKE KKAVLNPTII PESVAGNQEA ANNPSSHPQL VGFQNPFSSS QDEEEIDMDT VHDSQAFISH HLNMLERPST PGLSKYRPAS SRSALIPQHS AGCDSTPTTK PQWSLELARK GTGKEQAPLE MSMHPAASAP LSVFTKESTA SKHSDHHHHH HHEHKKKKKK HKHKHKHKHK HDSKEKDKEP FTFSSPASGR SIRSPSLSD

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 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 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!

Product Details

	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.
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 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. 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.
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

Target Details

Target:	TAF2
Alternative Name:	TAF2 (TAF2 Products)
Background:	Transcription initiation factor TFIID subunit 2 (150 kDa cofactor of initiator function) (RNA polymerase II TBP-associated factor subunit B) (TBP-associated factor 150 kDa) (Transcription initiation factor TFIID 150 kDa subunit) (TAF(II)150) (TAFII-150) (TAFII150),FUNCTION: The TFIID basal transcription factor complex plays a major role in the initiation of RNA polymerase II (Pol II)-dependent transcription (PubMed:33795473). TFIID recognizes and binds promoters with or without a TATA box via its subunit TBP, a TATA-box-binding protein, and promotes assembly of the pre-initiation complex (PIC) (PubMed:33795473). The TFIID complex consists of TBP and TBP-associated factors (TAFs), including TAF1, TAF2, TAF3, TAF4, TAF5, TAF6, TAF7, TAF8, TAF9, TAF10, TAF11, TAF12 and TAF13 (PubMed:33795473, PubMed:9418870, PubMed:9774672). TAF2 forms a promoter DNA binding subcomplex of TFIID, together with TAF7 and TAF1 (PubMed:9774672, PubMed:33795473). {ECO:0000269|PubMed:33795473, ECO:0000269|PubMed:9418870, ECO:0000269|PubMed:9774672}.
Molecular Weight:	137.0 kDa

Target Details

UniProt:	Q6P1X5

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. 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

