

Datasheet for ABIN3136564

TXNDC11 Protein (AA 1-948) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	TXNDC11
Protein Characteristics:	AA 1-948
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TXNDC11 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MSECGGRGGG GGNNSEDAED EGGGPKGSGS LSPAGAAASL EGRIRRGRLG ASLMARQRPE</p> <p>LLCGAVALGC ALLFALKFTC SRAKDVIIPA KPPVSFFSSR SPVLDLFQGG LDYADHVRQD</p> <p>SEVVVLFYFA PWCGQSIAAR AEIEQAASRL SDQVLFVAIN CWWNQGKCRK QKHFFYFPVI</p> <p>HLYHRSFGPI EYKGPMASVY IEKFVRRAMK PLYIPSQSA LLDFLSSYEP GVLGYFEFSG</p> <p>SPQPPGYLTF FTSALHSLKK DYLGTVRFGV ITDKHLARLV SLVHSGSVYL HRFNTSLVF</p> <p>PREVMNFTAE NIYKWASENQ ETLFRWLQPH GKGSLLLNNE LKKGPAFLF IPFDPLAERH</p> <p>PLLDEITEVA LEYNNCHGDQ VVERLLQHLR RVEAPVLQSL APELPASLPD TQLMAASPC</p> <p>NTVVLPGGPA LSRTHNVCEL CVNQTVGGTR PSSVSVQCS FFEMAAALDS FYLKEQTFYH</p> <p>VVSGSIECSN FLTSYSPFSY YTACCRITSR GMASFTGSEQ NVLTAPAIEF SSLEKSCEAT</p> <p>APSSIPHIEE NRYRFPQVGL TSTAFTGLSC RTNKTLLNIYL LDSNLFWLYA ERLGAPSSAP</p> <p>VKEFATIVDV KEESHYILDV KQALMKFTLE SFIQNFVSVLY SPLKRHLTGS DSAQFPTQHL</p>

ITEVTTDTFW EVTLRKQDVL LLYYTQWCGF CPSLNHIFIQ LARLLPEDTF TVARIDVSQN
DLPWEFMVDR LPTVLFFPCN RKDLSVKYPG DLPITLPNLL RFIHHSDAA SAPQDPGISP
PTQDCVQSKA VLQREHISHV ENAMQKLRSE MSSLRRTQEQ VEGRLLSARR DGHRLRRQR
TLEQQHRLLR RHSQKLQALY LKKARELQEL ARASGTPLPE HTWLKILVAT MERELEGQGG
AKEPAPLGKA RPNHSKSMGT TQLPGDTPPP STTSSTLASE TKHENRTD

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.

Product Details

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:	TXNDC11
Alternative Name:	Txndc11 (TXNDC11 Products)
Background:	Thioredoxin domain-containing protein 11,FUNCTION: May act as a redox regulator involved in DUOX proteins folding. The interaction with DUOX1 and DUOX2 suggest that it belongs to a multiprotein complex constituting the thyroid H(2)O(2) generating system. It is however not sufficient to assist DUOX1 and DUOX2 in H(2)O(2) generation (By similarity). {ECO:0000250}.
Molecular Weight:	106.0 kDa
UniProt:	Q8K2W3
Pathways:	Cell RedoxHomeostasis

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>

Application Details

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