Datasheet for ABIN3093956

MTUS1 Protein (AA 1-1270) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	MTUS1
Protein Characteristics:	AA 1-1270
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MTUS1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MTDDNSDDKI EDELQTFFTS DKDGNTHAYN PKSPPTQNSS ASSVNWNSAN PDDMVVDYET DPAVVTGENI SLSLQGVEVF GHEKSSSDFI SKQVLDMHKD SICQCPALVG TEKPKYLQHS CHSLEAVEGQ SVEPSLPFVW KPNDNLNCAG YCDALELNQT FDMTVDKVNC TFISHHAIGK SQSFHTAGSL PPTGRRSGST SSLSYSTWTS SHSDKTHARE TTYDRESFEN PQVTPSEAQD MTYTAFSDVV MQSEVFVSDI GNQCACSSGK VTSEYTDGSQ QRLVGEKETQ ALTPVSDGME VPNDSALQEF FCLSHDESNS EPHSQSSYRH KEMGQNLRET VSYCLIDDEC PLMVPAFDKS EAQVLNPEHK VTETEDTQMV SKGKDLGTQN HTSELILSSP PGQKVGSSFG LTWDANDMVI STDKTMCMST PVLEPTKVTF SVSPIEATEK CKKVEKGNRG LKNIPDSKEA PVNLCKPSLG KSTIKTNTPI GCKVRKTEII SYPRPNFKNV KAKVMSRAVL QPKDAALSKV TPRPQQTSAS SPSSVNSRQQ TVLSRTPRSD LNADKKAEIL INKTHKQQFN KLITSQAVHV TTHSKNASHR VPRTTSAVKS NQEDVDKASS SNSACETGSV SALFQKIKGI LPVKMESAEC LEMTYVPNID RISPEKKGEK ENGTSMEKQE LKQEIMNETF EYGSLFLGSA SKTTTTSGRN ISKPDSCGLR

QIAAPKAKVG PPVSCLRRNS DNRNPSADRA VSPQRIRRVS SSGKPTSLKT AQSSWVNLPR PLPKSKASLK SPALRRTGST PSIASTHSEL STYSNNSGNA AVIKYEEKPP KPAFQNGSSG SFYLKPLVSR AHVHLMKTPP KGPSRKNLFT ALNAVEKSRQ KNPRSLCIQP QTAPDALPPE KTLELTQYKT KCENQSGFIL QLKQLLACGN TKFEALTVVI QHLLSEREEA LKQHKTLSQE LVNLRGELVT ASTTCEKLEK ARNELQTVYE AFVQQHQAEK TERENRLKEF YTREYEKLRD TYIEEAEKYK MQLQEQFDNL NAAHETSKLE IEASHSEKLE LLKKAYEASL SEIKKGHEIE KKSLEDLLSE KQESLEKQIN DLKSENDALN EKLKSEEQKR RAREKANLKN PQIMYLEQEL ESLKAVLEIK NEKLHQQDIK LMKMEKLVDN NTALVDKLKR FQQENEELKA RMDKHMAISR QLSTEQAVLQ ESLEKESKVN KRLSMENEEL LWKLHNGDLC SPKRSPTSSA IPLQSPRNSG SFPSPSISPR

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 -

Product Details

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.

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)

Target Details

Target:	MTUS1
Alternative Name:	MTUS1 (MTUS1 Products)
Background:	Microtubule-associated tumor suppressor 1 (AT2 receptor-binding protein) (Angiotensin-II type 2 receptor-interacting protein) (Mitochondrial tumor suppressor 1),FUNCTION: Cooperates with AGTR2 to inhibit ERK2 activation and cell proliferation. May be required for AGTR2 cell surface expression. Together with PTPN6, induces UBE2V2 expression upon angiotensin-II stimulation. Isoform 1 inhibits breast cancer cell proliferation, delays the progression of mitosis by prolonging metaphase and reduces tumor growth. {ECO:0000269|PubMed:12692079, ECO:0000269|PubMed:19794912}.
Molecular Weight:	141.4 kDa
UniProt:	Q9ULD2

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

Application Details

	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)

