Datasheet for ABIN3131987

TERT Protein (AA 1-1122) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TERT
Protein Characteristics:	AA 1-1122
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TERT protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MTRAPRCPAV RSLLRSRYRE VWPLATFVRR LGPEGRRLVQ PGDPKIYRTL VAQCLVCMHW GSQPPPADLS FHQVSSLKEL VARVVQRLCE RNERNVLAFG FELLNEARGG PPMAFTSSVR SYLPNTVIET LRVSGAWMLL LSRVGDDLLV YLLAHCALYL LVPPSCAYQV CGSPLYQICA TTDIWPSVSA SYRPTRPVGR NFTNLRFLQQ IKSSSRQEAP KPLALPSRGT KRHLSLTSTS VPSAKKARCY PVPRVEEGPH RQVLPTPSGK SWVPSPARSP EVPTAEKDLS SKGKVSDLSL SGSVCCKHKP SSTSLLSPPR QNAFQLRPFI ETRHFLYSRG DGQERLNPSF LLSNLQPNLT GARRLVEIIF LGSRPRTSGP LCRTHRLSRR YWQMRPLFQQ LLVNHAECQY VRLLRSHCRF RTANQQVTDA LNTSPPHLMD LLRLHSSPWQ VYGFLRACLC KVVSASLWGT RHNERRFFKN LKKFISLGKY GKLSLQELMW KMKVEDCHWL RSSPGKDRVP AAEHRLRERI LATFLFWLMD TYVVQLLRSF FYITESTFQK NRLFFYRKSV WSKLQSIGVR QHLERVRLRE LSQEEVRHHQ DTWLAMPICR LRFIPKPNGL RPIVNMSYSM GTRALGRRKQ AQHFTQRLKT LFSMLNYERT

KHPHLMGSSV LGMNDIYRTW RAFVLRVRAL DQTPRMYFVK ADVTGAYDAI PQGKLVEVVA NMIRHSESTY CIRQYAVVRR DSQGQVHKSF RRQVTTLSDL QPYMGQFLKH LQDSDASALR NSVVIEQSIS MNESSSSLFD FFLHFLRHSV VKIGDRCYTQ CQGIPQGSSL STLLCSLCFG DMENKLFAEV QRDGLLLRFV DDFLLVTPHL DQAKTFLSTL VHGVPEYGCM INLQKTVVNF PVEPGTLGGA APYQLPAHCL FPWCGLLLDT QTLEVFCDYS GYAQTSIKTS LTFQSVFKAG KTMRNKLLSV LRLKCHGLFL DLQVNSLQTV CINIYKIFLL QAYRFHACVI QLPFDQRVRK NLTFFLGIIS SQASCCYAIL KVKNPGMTLK ASGSFPPEAA HWLCYQAFLL KLAAHSVIYK CLLGPLRTAQ KLLCRKLPEA TMTILKAAAD PALSTDFQTI LD

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:

Product Details

- 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:	TERT
Alternative Name:	Tert (TERT Products)
Background:	Telomerase reverse transcriptase (EC 2.7.7.49) (Telomerase catalytic subunit),FUNCTION: Telomerase is a ribonucleoprotein enzyme essential for the replication of chromosome termini in most eukaryotes. Active in progenitor and cancer cells. Inactive, or very low activity, in normal somatic cells. Catalytic component of the teleromerase holoenzyme complex whose main activity is the elongation of telomeres by acting as a reverse transcriptase that adds simple sequence repeats to chromosome ends by copying a template sequence within the RNA component of the enzyme. Catalyzes the RNA-dependent extension of 3'-chromosomal termini with the 6-nucleotide telomeric repeat unit, 5'-TTAGGG-3'. The catalytic cycle involves primer binding, primer extension and release of product once the template boundary has been reached or nascent product translocation followed by further extension. More active on substrates containing 2 or 3 telomeric repeats. Telomerase activity is regulated by a number of factors including telomerase complex-associated proteins, chaperones and polypeptide modifiers. Modulates Wnt signaling. Plays important roles in aging and antiapoptosis (By similarity). {ECO:0000250, ECO:0000269|PubMed:17130244, ECO:0000269|PubMed:19571879, ECO:0000269|PubMed:9582020}.
Molecular Weight:	128.0 kDa
UniProt:	O70372
Pathways:	Telomere Maintenance

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