

Datasheet for ABIN3074927

## TULP3 Protein (AA 1-442) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	TULP3
Protein Characteristics:	AA 1-442
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TULP3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MEASRCRLSP SGDSVFHEEM MKMRQAKLDY QRLLEKRQR KKRLEPFMVQ PNPEARLRRA  KPRASDEQTP LVNCHTPHSN VILHGIDGPA AVLKPDEVHA PSVSSSVVEE DAENTVDTAS  KPGQLQERLQK HDISESVNFD EETDGISQSA CLERPNSASS QNSTDTGTSG SATAAQPADN  LLGDIDDLED FVYSPAPQGV TVRCRIIRDK RGMDRGLFPT YYMYLEKEEN QKIFLLAARK  RKKSKTANYL ISIDPVDLSR EGESYVGKLR SNLMGKFTV YDRGICPMKG RGLVGAAHTR  QELAAISYET NVLGFKGPRK MSVIIPGMTL NHKQIPYQPQ NNHDSLLSRW QNRTMENLVE  LHNKAPVWNS DTQSYVLNFR GRVTQASVKN FQIVHKNDPD YIVMQFGRVA DDVFTLDYNY  PLCAVQAFGI GLSSFDSKLA CE</p> <p><b>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.</b></p>

# Product Details

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Characteristics:	<div>Key Benefits:</div> <ul style="list-style-type: none"><li>• Made in Germany - from design to production - by highly experienced protein experts.</li><li>• Protein expressed with ALiCE® and purified in one-step affinity chromatography</li><li>• These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <div>This protein is a <b>made-to-order protein</b> and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</div> <div>The big advantage of ordering our <b>made-to-order proteins</b> 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.</div> <div>Expression System:</div> <ul style="list-style-type: none"><li>• 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.</li><li>• 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!</li></ul> <div>Concentration:</div> <ul style="list-style-type: none"><li>• The concentration of our recombinant proteins is measured using the absorbance at 280nm.</li><li>• The protein's absorbance will be measured against its specific reference buffer.</li><li>• We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.</li></ul>
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:	TULP3
Alternative Name:	TULP3 ( <a href="#">TULP3 Products</a> )
Background:	<p>Tubby-related protein 3 (Tubby-like protein 3),FUNCTION: Negative regulator of the Shh signaling transduction pathway: recruited to primary cilia via association with the IFT complex A (IFT-A) and is required for recruitment of G protein-coupled receptor GPR161 to cilia, a promoter of PKA-dependent basal repression machinery in Shh signaling. Binds to phosphorylated inositide (phosphoinositide) lipids. Both IFT-A- and phosphoinositide-binding properties are required to regulate ciliary G protein-coupled receptor trafficking. During adipogenesis, regulates ciliary trafficking of FFAR4 in preadipocytes.</p> <p>{ECO:0000269 PubMed:11375483, ECO:0000269 PubMed:20889716, ECO:0000269 PubMed:31761534}.</p>
Molecular Weight:	49.6 kDa
UniProt:	<a href="#">O75386</a>
Pathways:	<a href="#">Regulation of G-Protein Coupled Receptor Protein Signaling, Tube Formation</a>

## 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>
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months