

Datasheet for ABIN3095841

## TSC22D1 Protein (AA 1-1073) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	TSC22D1
Protein Characteristics:	AA 1-1073
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TSC22D1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MHQPPESTAA AAAAADISAR KMAHPAMFPR RGS GSGSASA LNAAGTGVGS NATSSEDFPP</p> <p>PSLLQPPPPA ASSTSGPQPP PPQSLNLLSQ AQLQAQPLAP GGTQMKKKSG FQITSVTPAQ</p> <p>ISASISSNNS IAEDTESYDD LDESHTEDLS SSEILDVSLs RATDLGEPER SSSEETLNNF</p> <p>QEAETPGAVS PNQPHLPQPH LPHLPQQNVV INGNAHPHLL HHHHQIHGHG HLQHGHHHPS</p> <p>HVAVASASIT GGPPSSPVSR KLSTTGSSDS ITPVAPTS AV SSSGSPASVM TNMRAPSTTG</p> <p>GIGINSVTGT STVNNVNITA VGSFNPVNTS SMLGNVNIST SNIPSAAGVS VGPGVTSGVN</p> <p>VNILSGMGNG TISSAAVSS VPNAAGMTG GSVSSQQQP TVNTSRFRV KLDSSSEPFK</p> <p>KGRWCTEFY EKENAVPATE GVLINKVET VKQNPIEVTS ERESTSGSSV SSSVSTLSHY</p> <p>TESVSGGEMG APTVVVQQQ QQQQQQQQP ALQGVTLQQM DFGSTGPQSI PAVSIPQSIG</p> <p>QSQISQVQLQ SQELSYQQK GLQPVPLQAT MSAATGIQPS PVNVVGVTS LGQQPSISL</p> <p>AQPQLPYSQA APPVQTPLPG APPPQQLQYG QQQPMVSTQM APGHVKSQTQ NPASEYVQQQ</p>

PILQTAMSSG QPSSAGVGAG TTVIPVAQPQ GIQLPVQPTA VPAQPAGASV QPVGQAPAAV  
SAVPTGSQIA NIGQQANIPT AVQQPSTQVP PSVIQQGAPP SSQVPPAQT GIIHQGVQTS  
APSLPQQLVI ASQSSLLTVP PQQPGVEPVA QGIVSQQLPA VSSLPSASSI SVTSQVSSTG  
PSGMPSAPTN LVPPQNIAQT PATQNGNLVQ SVSQPPLIAT NTNLPPLAQI PLSSTQFSAQ  
SLAQAGSQI EDARRAAEPS LVGLPQTISG DSGGMSAVSD GSSSSLAASA SLFPLKVLPL  
TTPLVDGEDE SSSGASVVAI DNKIEQAMD L VKSHLMYAVR EEVEVLKEQI KELIEKNSQL  
EQENLLKTL ASPEQLAQFQ AQLQTGSPPA TTQPQGTTPA PAQPASQSGG PTA

**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.**

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### 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.

## Product Details

- 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:	TSC22D1
Alternative Name:	TSC22D1 ( <a href="#">TSC22D1 Products</a> )
Background:	<p>TSC22 domain family protein 1 (Cerebral protein 2) (HUCEP-2) (Regulatory protein TSC-22) (TGFB-stimulated clone 22 homolog) (Transforming growth factor beta-1-induced transcript 4 protein),FUNCTION: Transcriptional repressor (PubMed:10488076). Acts on the C-type natriuretic peptide (CNP) promoter (PubMed:9022669). Acts to promote CASP3-mediated apoptosis (PubMed:18325344). Positively regulates TGF-beta signaling by interacting with SMAD7 which inhibits binding of SMAD7 to TGFBR1, preventing recruitment of SMURF ubiquitin ligases to TGFBR1 and inhibiting SMURF-mediated ubiquitination and degradation of TGFBR1 (PubMed:21791611). Contributes to enhancement of TGF-beta signaling by binding to and modulating the transcription activator activity of SMAD4 (PubMed:15881652). Promotes TGF-beta-induced transcription of COL1A2, via its interaction with TFE3 at E-boxes in the gene proximal promoter (By similarity). Plays a role in the repression of hematopoietic precursor cell growth (By similarity). Promotes IL2 deprivation-induced apoptosis in T-lymphocytes, via repression of TSC22D3/GILZ transcription and activation of the caspase cascade (PubMed:26752201). {ECO:0000250 UniProtKB:P62500, ECO:0000269 PubMed:10488076, ECO:0000269 PubMed:15881652, ECO:0000269 PubMed:18325344, ECO:0000269 PubMed:21791611, ECO:0000269 PubMed:26752201, ECO:0000269 PubMed:9022669}., FUNCTION: [Isoform 1]: May act to negatively regulate TGFB3 signaling and thereby inhibit cell death in mammary gland cells. {ECO:0000250 UniProtKB:P62500}., FUNCTION: [Isoform 2]: Positively regulates cell death in response to TGFB3 during mammary gland involution. {ECO:0000250 UniProtKB:P62500}.</p>
Molecular Weight:	109.7 kDa
UniProt:	<a href="#">Q15714</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:** 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