

Datasheet for ABIN3137470

TRPC2 Protein (AA 1-1172) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	TRPC2
Protein Characteristics:	AA 1-1172
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPC2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MLMSRTDSKS GKNRSGVRMF KDGDFLTPAS GESWDRLRLT CSQPFTRHQS FGLAFLRVRS</p> <p>SLGSLADPVV DPSAPGSSGL NQNSTDVLES DPRPWLTNPS IRRFFPDQP TSTKEISELK</p> <p>GMLKQLQPGP LGRAARMVLS AARKAPPASV VSPNNSHGEP GPSRAESAEP RAEEPNRKTA</p> <p>VGRRKRKRVQ EPRRSLNSS SQPNRRTGRT RQRQHRPQTK SDDGGVQAAG QCPICAGFFS</p> <p>IETLPQHAAT CGESPPPQPA SPASLSSSES VLRHHVALT PVPLVPKPQP NWTEIVNKKL</p> <p>KFPPTLLRAI QEQQLGLVQQ LLESSDASG AGPGGPLRNV EESEDRSWRE ALNLAIRLGH</p> <p>EVITDVLLAN VKFDFRQIHE ALLVAVDTNQ PAVVRLLAR LEREKGRKVD TKSFSLAFFD</p> <p>SSIDGSRFAP GVTPLTLACQ KDLYEIAQLL MDQGHTIARP HPVSCACLEC SNARRYDLLK</p> <p>FSLSRINTYR GIASRAHLSL ASEDAMLA AFQLSRELRLA RKEPEFKPQY IALESLCQDY</p> <p>GFELLGMCRN QSEVTAVLND LGEDSETEPE AEGLGQAFEE GIPNLARLRL AVNYNQKQFV</p> <p>AHPICQQVLS SIWCGNLAGW RGSTTIWKLF VAFLIFLTMP FLCIGYWLAP KSQLGRLLKI</p>

PVLKFLHSA SYLWFLIFLL GESLVMETQL STFKGRSQSV WETSLHMIWV TGFLWFECKE
VWIEGLRSYL LDWWNFLDVV ILSLYLASFA LRLLLAGLAY MHCRDASDST TCRYFTTAER
SEWRTEDPQF LAEVLFAVTS MLSFTRLAYI LPAHESLGTQ QISIGKMIDD MIRFMFILMI
ILTAFLCGLN NIYVPYQES KLGNFNETFQ FLFWTMFGME EHTVVDMPQF LVPEFVGRAM
YGIFTIVMVI VLLNMLIAM TNSFQKIEDD ADVEWKFARS KLYLSYFREG LTLVPVFNIL
PSPKAAFYLV RRIFRFLCCG SSCCKAKKSD YPIGTFTNP GARAGSAGEG ERVSYRLRVI
KALVQRYIET ARREFEETRR KDLGNRLTEL TKTVSRLQSE VASVQKNLAA GGAPRPPDGA
SILSRITRV RNSFQNLGPP TSDTPAELTM PGIVETEVSL GDGLDGTGEA GAPAPGEPGS
SSSAHVLVHR EQEAEAGSGL LLEGDLTKG ES

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!

Product Details

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.

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: TRPC2

Alternative Name: Trpc2 ([TRPC2 Products](#))

Background: Short transient receptor potential channel 2 (TrpC2) (Transient receptor protein 2) (TRP-2) (mTrp2),FUNCTION: Thought to form a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. May also be activated by intracellular calcium store depletion. Plays a role in mediating responsivity to pheromones that elicit aggressive and mating behaviors. Required for response to the Esp1 pheromone which enhances female sexual receptive behavior and to the Esp22 pheromone which inhibits adult male mating behavior. {ECO:0000269|PubMed:11823606, ECO:0000269|PubMed:11972034, ECO:0000269|PubMed:20596023, ECO:0000269|PubMed:24089208}.

Molecular Weight: 130.5 kDa

UniProt: [Q9R244](#)

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

Application Details

modifications.

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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