

Datasheet for ABIN3118389

Anoctamin 2 Protein (ANO2) (AA 1-1003) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	Anoctamin 2 (ANO2)
Protein Characteristics:	AA 1-1003
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Anoctamin 2 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MATPGPRDIP LLPGSPRRLS PQAGSRGGQG PKHGQQCLKM PGPRAPGLQG GSNRDPGQPC</p> <p>GGESTRSSSV INNYLDANEP VSLEARLSRM HFHDSQRKVD YVLAYHYRKR GVHLAQGFPG</p> <p>HSLAIVSNGE TGKEPHAGGP GDIELGPLDA LEEERKEQRE EFEHNLMEAG LELEKDLENK</p> <p>SQGSIFVRIH APWQVLAREA EFLKIKVPTK KEMYEIKAGG SIAKKFSAAL QKLSSHLQPR</p> <p>VPEHSNNKMK NLSYPFSREK MYLYNIQEKD TFFDNATRSR IVHEILKRTA CSRANNTMGI</p> <p>NSLIANNIYE AAYPLHDGEY DSPEDDMNDR KLLYQEWARY GVFYKFQPID LIRKYFGEKI</p> <p>GLYFAWLGLY TSFLIPSSVI GVIVFLYGCA TIEEDIPSRE MCDQQNAFTM CPLCDKSCDY</p> <p>WNLSSACGTA QASHLFDNPA TVFFSIFMAL WATMFLENWK RLQMRLGYFW DLTGIEEEEE</p> <p>RAQEHSRPEY ETKVREKMLK ESNQSAVQKL ETNTTECGDE DDEDKLTWKD RFPGYLMNFA</p> <p>SILFMIALTF SIVFGVIVYR ITTAAALSLN KATRSNVRVT VTATAVIINL VVILILDEIY GAVAKWLTKI</p> <p>EVPKTEQTFE ERLILKAFL KLVNAYSPIF YVAFFKGRFV GRPGSYVYVF DGYRMEECAP</p>

GGCLMELCIQ LSIIMLGKQL IQNNIFEIGV PKLKKLFRKL KDETEAGETD SAHSHPEQW
DLDSLEPYT GLTPEYMEMI IQFGFVTLFV ASFPLAPVFA LLNNVIEVRL DAKKFVTELR
RPDAVRTKDI GIWFDILSGI GKFSVISNAF VIAITSDFIP RLVYQYSYSH NGTLHGFEVNH
TLSFFNVSQL KEGTQPENSQ FDQEVQFCRF KDYREPPWAP NPYEFSKQYW FILSARLAFV
IIFQNLVMFL SVLVDWMIPD IPTDISDQIK KEKSLLVDFF LKEEHEKLLK MDEPALRSPG
GGDRSRRAA SSAPSGQSQL GSMMSSGSQH TNV

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:

- 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.

Product Details

- 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®).
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Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
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Grade:	custom-made
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Target Details

Target:	Anoctamin 2 (ANO2)
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Alternative Name:	ANO2 (ANO2 Products)
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Background:	Anoctamin-2 (Transmembrane protein 16B),FUNCTION: Calcium-activated chloride channel (CaCC) which may play a role in olfactory signal transduction. Odorant molecules bind to odor-sensing receptors (OSRs), leading to an increase in calcium entry that activates CaCC current which amplifies the depolarization of the OSR cells, ANO2 seems to be the underlying chloride channel involved in this process. May mediate light perception amplification in retina. {ECO:0000269 PubMed:19474308, ECO:0000269 PubMed:20056604}.
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Molecular Weight:	114.0 kDa
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UniProt:	Q9NQ90
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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.
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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</p>
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Application Details

	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