

Datasheet for ABIN3130749

ANO3 Protein (AA 1-981) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ANO3
Protein Characteristics:	AA 1-981
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANO3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MVHHSGSIQS FKQQKGMNIS KSEITTEASL KPSRRSLPCL AQSYAHSKSL SQSASLFQST</p> <p>ESESQAPTSV TFLSADKPEH VTSEESRKDS TLKCSFADLS DFCLALGKDK DYLDSEHAN</p> <p>YDRSRLNDF VTKDKPASKT KLSKNDMSYI ASSGLLFKDG KKRIDYILVY RKTNIQYDKR</p> <p>NTFEKNLRAE GLMLEKEPAI ANPDIMFIKI HIPWDTLCKY AERLNIRVPF RKKCYTDDQK</p> <p>NKSKSRVQNY FKRIKKWMSQ NPMVLDKSAF PELEESDCYT GPFSRARIHH FIINNKDTEFF</p> <p>SNATRSRIVY HMLERTKYEN GISKVGIRKL ITNGSYIAAF PPHEGAYKSS LPIKTHGPQN</p> <p>NRHLLYERWA RWGMWYKHQP LDLIRMYFGE KIGLYFAWLG WYTGMLIPAA VVGLCVFFYG</p> <p>LVTMNESQVS QEICKATEVF MCPLCDKNCS LQRLNDSCIY AKVTYLFDFNG GTVFFAIFMA</p> <p>IWATVFLEFW KRRRSILTYT WDLIEWEEEE ETLRPQFEAK YYRMEVINPI TGKPEPHQPS</p> <p>SDKVTRLLVS VSGIFFMISL VITAVFAVVV YRLVMEQFA SFKWNFVKQH WQFATSGAAV</p> <p>CINFIIIMLL NLAYEKIAYL LTNLEYPRTE SEWENSFALK MFLFQFVNLN SSIFYIAFFL</p>

GRFVGHPGKY NKLFERWRLE ECHPSGCLID LCLQMGVIMF LKQIWNNFME LGYPLIQNWW
SRHKIKRGIQ DASIPQWEND WNLQPMNIHG LMDEYLEMVL QFGFTTIFVA AFPLAPLLAL
LNNIEIRLD AYKFVTQWRR PLPARATDIG IWLGILEGIG ILAVITNAFV IAITSYIPR FVYEYKYGPC
ANHVKQNENC LKGYVNNSLS FFDLSELGMG KSGYCRYRDY RGPPWSSKPY EFTLQYWHIL
AARLAFIIVF EHLVFGIKSF IAYLIPDIPK GLRERIRREK YLVQEMMYEA ELEHLQQRR
KSGQPIHHEW P

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®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: ANO3

Alternative Name: Ano3 ([ANO3 Products](#))

Background: Anoctamin-3 (Transmembrane protein 16C), FUNCTION: Has calcium-dependent phospholipid scramblase activity, scrambles phosphatidylcholine and galactosylceramide (PubMed:23532839). Does not exhibit calcium-activated chloride channel (CaCC) activity (PubMed:23532839). Seems to act as potassium channel regulator and may inhibit pain signaling, can facilitate KCNT1/Slack channel activity by promoting its full single-channel conductance at very low sodium concentrations and by increasing its sodium sensitivity (PubMed:23872594). {ECO:0000269|PubMed:23532839, ECO:0000269|PubMed:23872594}.

Molecular Weight: 114.6 kDa

UniProt: [A2AHL1](#)

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.

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Application Details

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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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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.
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Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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