

Datasheet for ABIN3115257

Anoctamin 6 Protein (ANO6) (AA 1-910) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	Anoctamin 6 (ANO6)
Protein Characteristics:	AA 1-910
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Anoctamin 6 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MKKMSRNVLL QMEEEEDDDD GDIVLENLGQ TIVPDLGSLE SQHDFRTPEF EEFNGKPDSL FFNDGQRRID FVLVYEDES R KETNKKGTNE KQRRKRQAYE SNLICHGLQL EATRSVLDDK LVFVKVHAPW EVLCTYAEIM HIKLPLKPND LKNRSSAFGT LNWFTKVLVS DESIIPKEQE FFTAPFEKNR MNDFYIVDRD AFFNPATRSR IVYFILSRVK YQVINNVSKF GINRLVNSGI YKAAFPLHDC KFRQSEDPS CPNERYLLYR EWAHPRSIYK KQPLDLIRKY YGEKIGIYFA WLGYYTQMLL LAAVVGACF LYGYLNQDNC TWSKEVCHPD IGGKIIMCPQ CDRLCPFWKL NITCESSKKL CIFDSFGTLV FAVFMGVWVT LFLEFWKRRQ AELEYEWDTV ELQQEEQARP EYEARCTHVV INEITQEEER IPFTAWGKCI RITLCASAVF FWILLIASV IGIIVYRLSV FIVFSAKLPK NINGTDPIQK YLTPQTATSI TASIISFIII MILNTIYEKV AIMITNFELP RTQTDYENSL TMKMFLFQFV NYYSSCFYIA FFKGKFGVYP GDPVYWLKGY RNEECDPGGC LLELTQTLTI IMGGKAIWNN IQEVLLPWIM NLIGRFHRVS GSEKITPRWE QDYHLQPMGK LGLFYEYLEM IIQFGFVTLF</p>

VASFPLAPLL ALVNNILEIR VDAWKLTQF RRLVPEKAQD IGAWQPIMQG IAILAVVTNA
MIIAFTSDMI PRLVYYWSFS VPPYGDHTSY TMEGYINNTL SIFKVADFKN KSKGNPYSDL
GNHTTCRYRD FRYPPGHPQE YKHNIYYWHV IAAKLAFIIV MEHVIYSVKF FISYAIPDVS
KRTKSKIQRK KYLTQKLLHE NHLKDMTKNM GVIAERMIEA VDNNLRPKSE

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.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

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: Anoctamin 6 (ANO6)

Alternative Name: ANO6 ([ANO6 Products](#))

Background: Anoctamin-6 (Small-conductance calcium-activated nonselective cation channel) (SCAN channel) (Transmembrane protein 16F),FUNCTION: Small-conductance calcium-activated nonselective cation (SCAN) channel which acts as a regulator of phospholipid scrambling in platelets and osteoblasts. Phospholipid scrambling results in surface exposure of phosphatidylserine which in platelets is essential to trigger the clotting system whereas in osteoblasts is essential for the deposition of hydroxyapatite during bone mineralization. Has calcium-dependent phospholipid scramblase activity, scrambles phosphatidylserine, phosphatidylcholine and galactosylceramide (By similarity). Can generate outwardly rectifying chloride channel currents in airway epithelial cells and Jurkat T lymphocytes. {ECO:0000250|UniProtKB:Q6P9J9, ECO:0000269|PubMed:20056604, ECO:0000269|PubMed:21107324, ECO:0000269|PubMed:21908539, ECO:0000269|PubMed:22006324, ECO:0000269|PubMed:22946059}., FUNCTION: (Microbial infection) Upon SARS coronavirus-2/SARS-CoV-2 infection, is activated by spike protein which increases the amplitude of spontaneous Ca(2+) signals and is required for spike-mediated syncytia. {ECO:0000269|PubMed:33827113}.

Molecular Weight: 106.2 kDa

UniProt: [Q4KMQ2](#)

Pathways: [SARS-CoV-2 Protein Interactome](#)

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

Application Details

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