

Datasheet for ABIN3089008

AREL1 Protein (AA 1-823) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	AREL1
Protein Characteristics:	AA 1-823
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AREL1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MFYVIGGITV SVVAFFFTIK FLFELAARVV SFLQNEDRER RGDRTIYDYV RGNYLDPKSC</p> <p>KVSWDWKDPY EVGHSMAFRV HLFYKNGQPF PAHRPVGLRV HISHVELAVE IPVTQEVLTQ</p> <p>PNSNVVKVAF TVRKAGRYEI TVKLGLNVA YSPYYKIFQP GMVVPSKTKI VCHFSTLVLT</p> <p>CGQPHTLQIV PRDEYDNPTN NSMSLRDEHN YTLSIHELGP QEEESTGVSF EKSVTNSNRQT</p> <p>FQVFLRLTLH SRGCFHACIS YQNQPINNGE FDIIVLSEDE KNIVERNVST SGVSIYFEAY</p> <p>LYNATNCSST PWHLPPMHMT SSQRRPSTAV DEEDEDSPSE CHTPEKVKKP KKVYCYVSPK</p> <p>QFSVKEFYLK IIPWRLYTFR VCPGTFKFSYL GPDPVHKLLT LVVDDGIQPP VELSKERNI</p> <p>LAATFIRSLH KNIGGSETFQ DKVNFFQREL RQVHMKRPHS KVTCLKVSRHA LLESSLKATR</p> <p>NFSISDWSKN FEVVFQDEEA LDWGGPRREW FELICKALFD TTNQLFTRFS DNNQALVHPN</p> <p>PNRPAHLRLK MYEFAGRLVG KCLYESSLGG AYKQLVRARF TRSFLAQIIG LRMHYKYFET</p> <p>DDPEFYKSKV CFILNNDMSE MELVFAEEKY NKSGQLDKVV ELMTGGAQTP VTNANKIFYL</p>

NLLAQYRLAS QVKEEVEHFL KGLNELVPEN LLAIFDENEL ELLMCGTGDI SVSDFKAHAV
VVGGSWHFRE KVMRWFWTVV SSLTQEELAR LLQFTTGSSQ LPPGGFAALC PSFQIIAAPT
HSTLPTAHTC FNQLCLPTYD SYEEVHRMLQ LAISEGCEGF GML

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.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

Product Details

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

Target Details

Target:	AREL1
Alternative Name:	AREL1 (AREL1 Products)
Background:	<p>Apoptosis-resistant E3 ubiquitin protein ligase 1 (EC 2.3.2.26) (Apoptosis-resistant HECT-type E3 ubiquitin transferase 1),FUNCTION: E3 ubiquitin-protein ligase that catalyzes 'Lys-11'- or 'Lys-33'-linked polyubiquitin chains, with some preference for 'Lys-33' linkages (PubMed:25752577). E3 ubiquitin-protein ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates (PubMed:23479728, PubMed:31578312). Ubiquitinates SEPTIN4, DIABLO/SMAC and HTRA2 in vitro (PubMed:23479728). Modulates pulmonary inflammation by targeting SOCS2 for ubiquitination and subsequent degradation by the proteasome (PubMed:31578312). {ECO:0000269 PubMed:23479728, ECO:0000269 PubMed:25752577, ECO:0000269 PubMed:31578312}.</p>
Molecular Weight:	94.2 kDa
UniProt:	O15033

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:	<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</p>

Application Details

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