Datasheet for ABIN3133692

UBA1Y Protein (AA 1-1058) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	UBA1Y
Protein Characteristics:	AA 1-1058
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UBA1Y protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSSSVLSKKR KVSGPDSSLD SSWSPTYSVM FGVPPGPTNE MSKNKEMDID ESLYSRQLYV LGHEAMKHLQ ASSVLISGLQ GLGVEIAKNI ILGGVKAVTL HDQGIAQWAD LSSQFCLREE DIGKNRAEIS QPRLAELNSY VPVFAYTGPL IEEFLSGFQV VVLTNTPLEY QLQVGEFCHS HGIKLVVADT RGLVGQLFCD FGEEMILTDS NGEQPLSAMV SMITKENPGI VTCLEDSRHG FESGDFISFT EVQGMSELNG IGPIEIKVLG PYTFSICDTS SFSEYIRGGI VSQVKVPRKI NFKPLLASLA EPEFVVTDFA KCCHPAQLHI GFQALHQFCT QHSRPPRPHN EEDAEELVTL AQSVNAQALP AVQQDCLDID LIRKLAYVAA GDLAPMNAFF GGLAAQEVMK ACSGKFMPIR QWLYFDALEC LPEHRVAFME DKCLPHQNRY DGQVAVFGSD LQEKLGKQKY FLVGAGAIGC ELLKNFAMIG LGCGEDGEIT VTDMDTIEKS NLNRQFLFRP WDITKLKSET AAAAVRDINP HIRIFSHQNR VGPETEHVYD DDFFQKLDGV ANALDNVDAR LYVDRRCVYY RKPLLESGTL GTKGNVQVVV PFLTESYSSS QDPPEKSIPI CTLKNFPNAI EHTVQWARDE FEGLFKQSAE

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NVNQYLTDPK FMERTLQLAG TQPLEVLEAI HCSLVLQRPQ TWADCVTWAY QHWHTQYSHN IQQLLHNFPP AQLTSSGALF WSGPKRCPHP LTFDINNPLH LDYVMAAANL FAQTYGLGGS QDCAVVAKLL QSLPVPKFAP KSGIRIHVSE QELQSTSATT IDDSHLEELK TALPTPDKLL GFKMYPIDFE KDDDSNFHMD FIVAASNLRA ENYGISPADR HKSKLIAGKI IPAIATTTSA IVGLVCLELY KVVQGHQQLE SYKNSFINLA LPLFSFSAPL APECHQYYDQ EWTLWDRFDV QGLQPSGEEM TLKQFLDYFK TEHKLEVIML SQGVSMLYSV FMPASKLKER LDQPMTEIVS CVSKQKLGHH VKSLVFELCC NSDSGDDIEV PYVRYIIR

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.

Product Details

- 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:	UBA1Y
Alternative Name:	Uba1y (UBA1Y Products)
Background:	Ubiquitin-like modifier-activating enzyme 1 Y (EC 6.2.1.45) (Ubiquitin-activating enzyme E1) (Ubiquitin-activating enzyme E1 Y),FUNCTION: Activates ubiquitin by first adenylating its C-terminal glycine residue with ATP, and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding a ubiquitin-E1 thioester and free AMP (By similarity). The Y chromosome form could be involved in the survival and proliferation of differentiating spermatogonia. {ECO:0000250|UniProtKB:P22314, ECO:0000305}.
Molecular Weight:	118.0 kDa
UniProt:	P31254

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. 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

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

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