Datasheet for ABIN3089143

AQR Protein (AA 1-1485) (Strep Tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	AQR
Protein Characteristics:	AA 1-1485
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AQR protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:	MAAPAQPKKI VAPTVSQINA EFVTQLACKY WAPHIKKKSP FDIKVIEDIY EKEIVKSRFA IRKIMLLEFS QYLENYLWMN YSPEVSSKAY LMSICCMVNE KFRENVPAWE IFKKKPDHFP FFFKHILKAA LAETDGEFSL HEQTVLLLFL DHCFNSLEVD LIRSQVQQLI SLPMWMGLQL ARLELELKKT PKLRKFWNLI KKNDEKMDPE AREQAYQERR FLSQLIQKFI SVLKSVPLSE PVTMDKVHYC ERFIELMIDL EALLPTRRWF NTILDDSHLL VHCYLSNLVR REEDGHLFSQ LLDMLKFYTG FEINDQTGNA LTENEMTTIH YDRITSLQRA AFAHFPELYD FALSNVAEVD TRESLVKFFG PLSSNTLHQV ASYLCLLPTL PKNEDTTFDK EFLLELLVSR HERRISQIQQ LNQMPLYPTE KIIWDENIVP TEYYSGEGCL ALPKLNLQFL TLHDYLLRNF NLFRLESTYE IRQDIEDSVS RMKPWQSEYG GVVFGGWARM AQPIVAFTVV EVAKPNIGEN WPTRVRADVT INLNVRDHIK DEWEGLRKHD VCFLITVRPT KPYGTKFDRR RPFIEQVGLV YVRGCEIQGM LDDKGRVIED GPEPRPNLRG ESRTFRVFLD PNQYQQDMTN TIQNGAEDVY ETFNIIMRRK PKENNFKAVL ETIRNLMNTD CVVPDWLHDI ILGYGDPSSA HYSKMPNQIA TLDFNDTFLS

IEHLKASFPG HNVKVTVEDP ALQIPPFRIT FPVRSGKGKK RKDADVEDED TEEAKTLIVE PHVIPNRGPY PYNQPKRNTI QFTHTQIEAI RAGMQPGLTM VVGPPGTGKT DVAVQIISNI YHNFPEQRTL IVTHSNQALN QLFEKIMALD IDERHLLRLG HGEEELETEK DFSRYGRVNY VLARRIELLE EVKRLQKSLG VPGDASYTCE TAGYFFLYQV MSRWEEYISK VKNKGSTLPD VTEVSTFFPF HEYFANAPQP IFKGRSYEED MEIAEGCFRH IKKIFTQLEE FRASELLRSG LDRSKYLLVK EAKIIAMTCT HAALKRHDLV KLGFKYDNIL MEEAAQILEI ETFIPLLLQN PQDGFSRLKR WIMIGDHHQL PPVIKNMAFQ KYSNMEQSLF TRFVRVGVPT VDLDAQGRAR ASLCNLYNWR YKNLGNLPHV QLLPEFSTAN AGLLYDFQLI NVEDFQGVGE SEPNPYFYQN LGEAEYVVAL FMYMCLLGYP ADKISILTTY NGQKHLIRDI INRRCGNNPL IGRPNKVTTV DRFQGQQNDY ILLSLVRTRA VGHLRDVRRL VVAMSRARLG LYIFARVSLF QNCFELTPAF SQLTARPLHL HIIPTEPFPT TRKNGERPSH EVQIIKNMPQ MANFVYNMYM HLIQTTHHYH QTLLQLPPAM VEEGEEVQNQ ETELETEEEA MTVQADIIPS PTDTSCRQET PAFQTDTTPS ETGATSTPEA IPALSETTPT VVGAVSAPAE ANTPQDATSA PEETK

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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

Product Details

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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:	AQR
Alternative Name:	AQR (AQR Products)
Background:	RNA helicase aquarius (EC 3.6.4.13) (Intron-binding protein of 160 kDa) (IBP160),FUNCTION: Involved in pre-mRNA splicing as component of the spliceosome (PubMed:11991638, PubMed:25599396, PubMed:28502770, PubMed:28076346). Intron-binding spliceosomal protein required to link pre-mRNA splicing and snoRNP (small nucleolar ribonucleoprotein) biogenesis (PubMed:16949364). Plays a key role in position-dependent assembly of intron-encoded box C/D small snoRNP, splicing being required for snoRNP assembly (PubMed:16949364). May act by helping the folding of the snoRNA sequence. Binds to intron of pre-mRNAs in a sequence-independent manner, contacting the region between snoRNA and the branchpoint of introns (40 nucleotides upstream of the branchpoint) during the late stages of splicing (PubMed:16949364). Has ATP-dependent RNA helicase activity and can unwind

Target Details

	double-stranded RNA molecules with a 3' overhang (in vitro) (PubMed:25599396). {ECO:0000269|PubMed:11991638, ECO:0000269|PubMed:16949364, ECO:0000269|PubMed:25599396, ECO:0000269|PubMed:28076346, ECO:0000269|PubMed:28502770}.
Molecular Weight:	171.3 kDa
UniProt:	O60306

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 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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

