Datasheet for ABIN3095060

DROSHA Protein (AA 1-1374) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	DROSHA
Protein Characteristics:	AA 1-1374
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DROSHA protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MMQGNTCHRM SFHPGRGCPR GRGGHGARPS APSFRPQNLR LLHPQQPPVQ YQYEPPSAPS TTFSNSPAPN FLPPRPDFVP FPPPMPPSAQ GPLPPCPIRP PFPNHQMRHP FPVPPCFPPM PPPMPCPNNP PVPGAPPGQG TFPFMMPPPS MPHPPPPPVM PQQVNYQYPP GYSHHNFPPP SFNSFQNNPS SFLPSANNSS SPHFRHLPPY PLPKAPSERR SPERLKHYDD HRHRDHSHGR GERHRSLDRR ERGRSPDRRR QDSRYRSDYD RGRTPSRHRS YERSRERERE RHRHRDNRRS PSLERSYKKE YKRSGRSYGL SVVPEPAGCT PELPGEIIKN TDSWAPPLEI VNHRSPSREK KRARWEEEKD RWSDNQSSGK DKNYTSIKEK EPEETMPDKN EEEEEELLKP VWIRCTHSEN YYSSDPMDQV GDSTVVGTSR LRDLYDKFEE ELGSRQEKAK AARPPWEPPK TKLDEDLESS SESECESDED STCSSSSDSE VFDVIAEIKR KKAHPDRLHD ELWYNDPGQM NDGPLCKCSA KARRTGIRHS IYPGEEAIKP CRPMTNNAGR LFHYRITVSP PTNFLTDRPT VIEYDDHEYI FEGFSMFAHA PLTNIPLCKV IRFNIDYTIH FIEEMMPENF CVKGLELFSL FLFRDILELY

DWNLKGPLFE DSPPCCPRFH FMPRFVRFLP DGGKEVLSMH QILLYLLRCS KALVPEEEIA NMLQWEELEW QKYAEECKGM IVTNPGTKPS SVRIDQLDRE QFNPDVITFP IIVHFGIRPA QLSYAGDPQY QKLWKSYVKL RHLLANSPKV KQTDKQKLAQ REEALQKIRQ KNTMRREVTV ELSSQGFWKT GIRSDVCQHA MMLPVLTHHI RYHQCLMHLD KLIGYTFQDR CLLQLAMTHP SHHLNFGMNP DHARNSLSNC GIRQPKYGDR KVHHMHMRKK GINTLINIMS RLGQDDPTPS RINHNERLEF LGDAVVEFLT SVHLYYLFPS LEEGGLATYR TAIVQNQHLA MLAKKLELDR FMLYAHGPDL CRESDLRHAM ANCFEALIGA VYLEGSLEEA KQLFGRLLFN DPDLREVWLN YPLHPLQLQE PNTDRQLIET SPVLQKLTEF EEAIGVIFTH VRLLARAFTL RTVGFNHLTL GHNQRMEFLG DSIMQLVATE YLFIHFPDHH EGHLTLLRSS LVNNRTQAKV AEELGMQEYA ITNDKTKRPV ALRTKTLADL LESFIAALYI DKDLEYVHTF MNVCFFPRLK EFILNQDWND PKSQLQQCCL TLRTEGKEPD IPLYKTLQTV GPSHARTYTV AVYFKGERIG CGKGPSIQQA EMGAAMDALE KYNFPQMAHQ KRFIERKYRQ ELKEMRWERE HQEREPDETE DIKK

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

Product Details

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

Target Details

Target:	DROSHA
Alternative Name:	DROSHA (DROSHA Products)
Background:	Ribonuclease 3 (EC 3.1.26.3) (Protein Drosha) (Ribonuclease III) (RNase III) (p241),FUNCTION: Ribonuclease III double-stranded (ds) RNA-specific endoribonuclease that is involved in the initial step of microRNA (miRNA) biogenesis. Component of the microprocessor complex that is required to process primary miRNA transcripts (pri-miRNAs) to release precursor miRNA (pre-miRNA) in the nucleus. Within the microprocessor complex, DROSHA cleaves the 3' and 5' strands of a stem-loop in pri-miRNAs (processing center 11 bp from the dsRNA-ssRNA junction) to release hairpin-shaped pre-miRNAs that are subsequently cut by the cytoplasmic DICER to generate mature miRNAs. Involved also in pre-rRNA processing. Cleaves double-strand RNA and does not cleave single-strand RNA. Involved in the formation of GW bodies. {ECO:0000269|PubMed:10948199, ECO:0000269|PubMed:14508493, ECO:0000269|PubMed:15531877, ECO:0000269|PubMed:15565168, ECO:0000269|PubMed:15574589, ECO:0000269|PubMed:15589161, ECO:0000269|PubMed:16751099, ECO:0000269|PubMed:16906129, ECO:0000269|PubMed:17159994, ECO:0000269|PubMed:26027739, ECO:0000269|PubMed:26748718}.
Molecular Weight:	159.3 kDa
UniProt:	Q9NRR4

Target Details

Pathways:	Regulatory RNA Pathways

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. 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