Datasheet for ABIN3093827

MLH3 Protein (AA 1-1453) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	MLH3
Protein Characteristics:	AA 1-1453
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MLH3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MIKCLSVEVQ AKLRSGLAIS SLGQCVEELA LNSIDAEAKC VAVRVNMETF QVQVIDNGFG MGSDDVEKVG NRYFTSKCHS VQDLENPRFY GFRGEALANI ADMASAVEIS SKKNRTMKTF VKLFQSGKAL KACEADVTRA SAGTTVTVYN LFYQLPVRRK CMDPRLEFEK VRQRIEALSL MHPSISFSLR NDVSGSMVLQ LPKTKDVCSR FCQIYGLGKS QKLREISFKY KEFELSGYIS SEAHYNKNMQ FLFVNKRLVL RTKLHKLIDF LLRKESIICK PKNGPTSRQM NSSLRHRSTP ELYGIYVINV QCQFCEYDVC MEPAKTLIEF QNWDTLLFCI QEGVKMFLKQ EKLFVELSGE DIKEFSEDNG FSLFDATLQK RVTSDERSNF QEACNNILDS YEMFNLQSKA VKRKTTAENV NTQSSRDSEA TRKNTNDAFL YIYESGGPGH SKMTEPSLQN KDSSCSESKM LEQETIVASE AGENEKHKKS FLEHSSLENP CGTSLEMFLS PFQTPCHFEE SGQDLEIWKE STTVNGMAAN ILKNNRIQNQ PKRFKDATEV GCQPLPFATT LWGVHSAQTE KEKKKESSNC GRRNVFSYGR VKLCSTGFIT HVVQNEKTKS TETEHSFKNY VRPGPTRAQE TFGNRTRHSV ETPDIKDLAS

TLSKESGQLP NKKNCRTNIS YGLENEPTAT YTMFSAFQEG SKKSQTDCIL SDTSPSFPWY RHVSNDSRKT DKLIGFSKPI VRKKLSLSSQ LGSLEKFKRQ YGKVENPLDT EVEESNGVTT NLSLQVEPDI LLKDKNRLEN SDVCKITTME HSDSDSSCQP ASHILNSEKF PFSKDEDCLE QQMPSLRESP MTLKELSLFN RKPLDLEKSS ESLASKLSRL KGSERETQTM GMMSRFNELP NSDSSRKDSK LCSVLTQDFC MLFNNKHEKT ENGVIPTSDS ATQDNSFNKN SKTHSNSNTT ENCVISETPL VLPYNNSKVT GKDSDVLIRA SEQQIGSLDS PSGMLMNPVE DATGDQNGIC FQSEESKARA CSETEESNTC CSDWQRHFDV ALGRMVYVNK MTGLSTFIAP TEDIQAACTK DLTTVAVDVV LENGSQYRCQ PFRSDLVLPF LPRARAERTV MRQDNRDTVD DTVSSESLQS LFSEWDNPVF ARYPEVAVDV SSGQAESLAV KIHNILYPYR FTKGMIHSMQ VLQQVDNKFI ACLMSTKTEE NGEAGGNLLV LVDQHAAHER IRLEQLIIDS YEKQQAQGSG RKKLLSSTLI PPLEITVTEE QRRLLWCYHK NLEDLGLEFV FPDTSDSLVL VGKVPLCFVE REANELRRGR STVTKSIVEE FIREQLELLQ TTGGIQGTLP LTVQKVLASQ ACHGAIKFND GLSLQESCRL IEALSSCQLP FQCAHGRPSM LPLADIDHLE QEKQIKPNLT KLRKMAQAWR LFGKAECDTR QSLQQSMPPC EPP

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

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 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:	MLH3
Alternative Name:	MLH3 (MLH3 Products)
Background:	DNA mismatch repair protein Mlh3 (MutL protein homolog 3),FUNCTION: Probably involved in the repair of mismatches in DNA.
Molecular Weight:	163.7 kDa
UniProt:	Q9UHC1
Pathways:	Chromatin Binding

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

Application Details

	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