Datasheet for ABIN3095577

FAM178A Protein (AA 1-1173) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	FAM178A
Protein Characteristics:	AA 1-1173
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FAM178A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MTRRCMPARP GFPSSPAPGS SPPRCHLRPG STAHAAAGKR TESPGDRKQS IIDFFKPASK QDRHMLDSPQ KSNIKYGGSR LSITGTEQFE RKLSSPKESK PKRVPPEKSP IIEAFMKGVK EHHEDHGIHE SRRPCLSLAS KYLAKGTNIY VPSSYHLPKE MKSLKKKHRS PERRKSLFIH ENNEKNDRDR GKTNADSKKQ TTVAEADIFN NSSRSLSSRS SLSRHHPEES PLGAKFQLSL ASYCRERELK RLRKEQMEQR INSENSFSEA SSLSLKSSIE RKYKPRQEQR KQNDIIPGKN NLSNVENGHL SRKRSSSDSW EPTSAGSKQN KFPEKRKRNS VDSDLKSTRE SMIPKARESF LEKRPDGPHQ KEKFIKHIAL KTPGDVLRLE DISKEPSDET DGSSAGLAPS NSGNSGHHST RNSDQIQVAG TKETKMQKPH LPLSQEKSAI KKASNLQKNK TASSTTKEKE TKLPLLSRVP SAGSSLVPLN AKNCALPVSK KDKERSSSKE CSGHSTESTK HKEHKAKTNK ADSNVSSGKI SGGPLRSEYG TPTKSPPAAL EVVPCIPSPA APSDKAPSEG ESSGNSNAGS SALKRKLRGD FDSDEESLGY NLDSDEEEET LKSLEEIMAL NFNQTPAATG KPPALSKGLR SQSSDYTGHV

HPGTYTNTLE RLVKEMEDTQ RLDELQKQLQ EDIRQGRGIK SPIRIGEEDS TDDEDGLLEE HKEFLKKFSV TIDAIPDHHP GEEIFNFLNS GKIFNQYTLD LRDSGFIGQS AVEKLILKSG KTDQIFLTTQ GFLTSAYHYV QCPVPVLKWL FRMMSVHTDC IVSVQILSTL MEITIRNDTF SDSPVWPWIP SLSDVAAVFF NMGIDFRSLF PLENLQPDFN EDYLVSETQT TSRGKESEDS SYKPIFSTLP ETNILNVVKF LGLCTSIHPE GYQDREIMLL ILMLFKMSLE KQLKQIPLVD FQSLLINLMK NIRDWNTKVP ELCLGINELS SHPHNLLWLV QLVPNWTSRG RQLRQCLSLV IISKLLDEKH EDVPNASNLQ VSVLHRYLVQ MKPSDLLKKM VLKKKAEQPD GIIDDSLHLE LEKQAYYLTY ILLHLVGEVS CSHSFSSGQR KHFVLLCGAL EKHVKCDIRE DARLFYRTKV KDLVARIHGK WQEIIQNCRP TQGQLHDFWV PDS

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!

Product Details

	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:	FAM178A
Alternative Name:	SLF2 (FAM178A Products)
Background:	SMC5-SMC6 complex localization factor protein 2 (Smc5/6 localization factor 1),FUNCTION: Plays a role in the DNA damage response (DDR) pathway by regulating postreplication repair of UV-damaged DNA and genomic stability maintenance (PubMed:25931565). The SLF1-SLF2 complex acts to link RAD18 with the SMC5-SMC6 complex at replication-coupled interstrand cross-links (ICL) and DNA double-strand breaks (DSBs) sites on chromatin during DNA repair in response to stalled replication forks (PubMed:25931565). Promotes the recruitment of the SMC5-SMC6 complex to DNA lesions (PubMed:25931565). Plays a role in SMC5-SMC6 complex recruitment for viral restriction. Forms a complex with SIMC1 and this complex is required to recruit SMC5-SMC6 complex to PML nuclear bodies and sites of viral replication (PubMed:36373674). {ECO:0000269|PubMed:25931565, ECO:0000269|PubMed:36373674}.
Molecular Weight:	131.9 kDa
UniProt:	Q8IX21

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

Application Details

	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