Datasheet for ABIN3093746

MEFV Protein (AA 1-781) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	MEFV
Protein Characteristics:	AA 1-781
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MEFV protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAKTPSDHLL STLEELVPYD FEKFKFKLQN TSVQKEHSRI PRSQIQRARP VKMATLLVTY YGEEYAVQLT LQVLRAINQR LLAEELHRAA IQEYSTQENG TDDSAASSSL GENKPRSLKT PDHPEGNEGN GPRPYGGGAA SLRCSQPEAG RGLSRKPLSK RREKASEGLD AQGKPRTRSP ALPGGRSPGP CRALEGGQAE VRLRRNASSA GRLQGLAGGA PGQKECRPFE VYLPSGKMRP RSLEVTISTG EKAPANPEIL LTLEEKTAAN LDSATEPRAR PTPDGGASAD LKEGPGNPEH SVTGRPPDTA ASPRCHAQEG DPVDGTCVRD SCSFPEAVSG HPQASGSRSP GCPRCQDSHE RKSPGSLSPQ PLPQCKRHLK QVQLLFCEDH DEPICLICSL SQEHQGHRVR PIEEVALEHK KKIQKQLEHL KKLRKSGEEQ RSYGEEKAVS FLKQTEALKQ RVQRKLEQVY YFLEQQEHFF VASLEDVGQM VGQIRKAYDT RVSQDIALLD ALIGELEAKE CQSEWELLQD IGDILHRAKT VPVPEKWTTP QEIKQKIQLL HQKSEFVEKS TKYFSETLRS EMEMFNVPEL IGAQAHAVNV ILDAETAYPN LIFSDDLKSV RLGNKWERLP DGPQRFDSCI IVLGSPSFLS GRRYWEVEVG

DKTAWILGAC KTSISRKGNM TLSPENGYWV VIMMKENEYQ ASSVPPTRLL IKEPPKRVGI FVDYRVGSIS FYNVTARSHI YTFASCSFSG PLQPIFSPGT RDGGKNTAPL TICPVGGQGP D

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.
- 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®).

Product Details

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

Target Details

Target:	MEFV
Alternative Name:	MEFV (MEFV Products)
Background:	Pyrin (Marenostrin),FUNCTION: Involved in the regulation of innate immunity and the inflammatory response in response to IFNG/IFN-gamma (PubMed:10807793, PubMed:11468188, PubMed:17964261, PubMed:18577712, PubMed:19109554, PubMed:19584923, PubMed:16037825, PubMed:27030597, PubMed:28835462, PubMed:16785446, PubMed:17431422, PubMed:26347139). Organizes autophagic machinery by serving as a platform for the assembly of ULK1, Beclin 1/BECN1, ATG16L1, and ATG8 family members and recognizes specific autophagy targets, thus coordinating target recognition with assembly of the autophagic apparatus and initiation of autophagy (PubMed:16785446, PubMed:17431422, PubMed:26347139). Acts as an autophagy receptor for the degradation of several inflammasome components, including CASP1, NLRP1 and NLRP3, hence preventing excessive IL1B- and IL18-mediated inflammation (PubMed:16785446, PubMed:17431422, PubMed:26347139). However, it can also have a positive effect in the inflammatory pathway, acting as an innate immune sensor that triggers PYCARD/ASC specks formation, caspase-1 activation, and IL1B and IL18 production (PubMed:16037825, PubMed:27030597, PubMed:28835462). Together with AIM2, also acts as a mediator of pyroptosis, necroptosis and apoptosis (PANoptosis), an integral part of host defense against pathogens, in response to bacterial infection (By similarity). It is required for PSTPIP1-induced PYCARD/ASC oligomerization and inflammasome formation (PubMed:10807793, PubMed:11468188, PubMed:17964261, PubMed:18577712, PubMed:19109554, PubMed:19584923). Recruits PSTPIP1 to inflammasomes, and is required for PSTPIP1 oligomerization (PubMed:10807793, PubMed:11468188, PubMed:17964261, PubMed:18577712, PubMed:19109554, PubMed:19584923). {ECO:0000250|UniProtKB:Q9JJ26, ECO:0000269|PubMed:10807793, ECO:0000269|PubMed:11468188, ECO:0000269|PubMed:16037825, ECO:0000269|PubMed:16785446, ECO:0000269|PubMed:17431422, ECO:0000269|PubMed:17964261, ECO:0000269|PubMed:18577712, ECO:0000269|PubMed:19109554, ECO:0000269|PubMed:19584923, ECO:0000269|PubMed:26347139, ECO:0000269|PubMed:27030597, ECO:0000269|PubMed:28835462}.

Target Details

Molecular Weight:	86.4 kDa
UniProt:	O15553
Pathways:	Positive Regulation of Endopeptidase Activity

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

