

Datasheet for ABIN3134658 IRF7 Protein (AA 1-457) (Strep Tag)



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Quantity:	1 mg
Target:	IRF7
Protein Characteristics:	AA 1-457
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IRF7 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

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Product Details	
Brand:	AliCE®
Sequence:	MAEVRGVQRV LFGDWLLGEV SSGQYEGLQW LNEARTVFRV PWKHFGRRDL DEEDAQIFKA
	WAVARGRWPP SGVNLPPPEA EAAERRERRG WKTNFRCALH STGRFILRQD NSGDPVDPHK
	VYELSRELGS TVGPATENRE EVSLSNALPT QGVSPGSFLA RENAGLQTPS PLLSSDAGDL
	LLQVLQYSHI LESESGADPV PPQAPGQEQD RVYEEPYAAW QVEAVPSPRP QQPALTERSL
	GFLDVTIMYK GRTVLQAVVG HPRCVFLYSP MAPAVRTSEP QPVIFPSPAE LPDQKQLHYT
	ETLLQHVSPG LQLELRGPSL WALRMGKCKV YWEVGSPMGT TGPSTPPQLL ERNRHTPIFD
	FSTFFRELEE FRARRRQGSP HYTIYLGFGQ DLSAGRPKEK TLILVKLEPW VCKAYLEGVQ
	REGVSSLDSS SLGLCLSSTN SLYEDIEHFL MDLGQWP
	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 posttranslational 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®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	IRF7
Alternative Name:	Irf7 (IRF7 Products)
Background:	Interferon regulatory factor 7 (IRF-7),FUNCTION: Key transcriptional regulator of type I
	interferon (IFN)-dependent immune responses and plays a critical role in the innate immune
	response against DNA and RNA viruses (PubMed:27129230, PubMed:22095711). Regulates the
	transcription of type I IFN genes (IFN-alpha and IFN-beta) and IFN-stimulated genes (ISG) by
	binding to an interferon-stimulated response element (ISRE) in their promoters. Can efficiently
	activate both the IFN-beta (IFNB) and the IFN-alpha (IFNA) genes and mediate their induction
	via both the virus-activated, MyD88-independent pathway and the TLR-activated, MyD88-
	dependent pathway. Induces transcription of ubiquitin hydrolase USP25 mRNA in response to
	lipopolysaccharide (LPS) or viral infection in a type I IFN-dependent manner
	(PubMed:27129230). Required during both the early and late phases of the IFN gene induction
	but is more critical for the late than for the early phase. Exists in an inactive form in the
	cytoplasm of uninfected cells and following viral infection, double-stranded RNA (dsRNA), or
	toll-like receptor (TLR) signaling, becomes phosphorylated by IKBKE and TBK1 kinases. This
	induces a conformational change, leading to its dimerization and nuclear localization where
	along with other coactivators it can activate transcription of the type I IFN and ISG genes. Can
	also play a role in regulating adaptive immune responses by inducing PSMB9/LMP2 expression
	either directly or through induction of IRF1. Binds to the Q promoter (Qp) of EBV nuclear antigen
	1 a (EBNA1) and may play a role in the regulation of EBV latency. Can activate distinct gene
	expression programs in macrophages and regulate the anti-tumor properties of primary
	macrophages. {ECO:0000269 PubMed:15361868, ECO:0000269 PubMed:15743772,
	ECO:0000269 PubMed:15800576, ECO:0000269 PubMed:18562536,
	ECO:0000269 PubMed:22095711, ECO:0000269 PubMed:27129230}.
Molecular Weight:	51.2 kDa
UniProt:	P70434
Pathways:	TLR Signaling, Activation of Innate immune Response, Hepatitis C, Toll-Like Receptors
	Cascades, Autophagy
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.

Application Details

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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