Datasheet for ABIN3096186

UHRF2 Protein (AA 1-802) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	UHRF2
Protein Characteristics:	AA 1-802
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UHRF2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MWIQVRTIDG SKTCTIEDVS RKATIEELRE RVWALFDVRP ECQRLFYRGK QLENGYTLFD YDVGLNDIIQ LLVRPDPDHL PGTSTQIEAK PCSNSPPKVK KAPRVGPSNQ PSTSARARLI DPGFGIYKVN ELVDARDVGL GAWFEAHIHS VTRASDGQSR GKTPLKNGSS CKRTNGNIKH KSKENTNKLD SVPSTSNSDC VAADEDVIYH IQYDEYPESG TLEMNVKDLR PRARTILKWN ELNVGDVVMV NYNVESPGQR GFWFDAEITT LKTISRTKKE LRVKIFLGGS EGTLNDCKII SVDEIFKIER PGAHPLSFAD GKFLRRNDPE CDLCGGDPEK KCHSCSCRVC GGKHEPNMQL LCDECNVAYH IYCLNPPLDK VPEEEYWYCP SCKTDSSEVV KAGERLKMSK KKAKMPSAST ESRRDWGRGM ACVGRTRECT IVPSNHYGPI PGIPVGSTWR FRVQVSEAGV HRPHVGGIHG RSNDGAYSLV LAGGFADEVD RGDEFTYTGS GGKNLAGNKR IGAPSADQTL TNMNRALALN CDAPLDDKIG AESRNWRAGK PVRVIRSFKG RKISKYAPEE GNRYDGIYKV VKYWPEISSS HGFLVWRYLL RRDDVEPAPW TSEGIERSRR LCLRLQYPAG YPSDKEGKKP KGQSKKQPSG

	TTKRPISDDD CPSASKVYKA SDSAEAIEAF QLTPQQQHLI REDCQNQKLW DEVLSHLVEG PNFLKKLEQS FMCVCCQELV YQPVTTECFH NVCKDCLQRS FKAQVFSCPA CRHDLGQNYI MIPNEILQTL LDLFFPGYSK GR **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

Product Details

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

Target Details

Target:	UHRF2
Alternative Name:	UHRF2 (UHRF2 Products)
Background:	E3 ubiquitin-protein ligase UHRF2 (EC 2.3.2.27) (Np95/ICBP90-like RING finger protein) (Np95-like RING finger protein) (Nuclear protein 97) (Nuclear zinc finger protein Np97) (RING finger protein 107) (RING-type E3 ubiquitin transferase UHRF2) (Ubiquitin-like PHD and RING finger domain-containing protein 2) (Ubiquitin-like-containing PHD and RING finger domains protein 2),FUNCTION: E3 ubiquitin ligase that plays important roles in DNA methylation, histone modifications, cell cycle and DNA repair (PubMed:15178429, PubMed:29506131, PubMed:27743347, PubMed:23404503). Acts as a specific reader for 5-hydroxymethylcytosine (5hmC) and thereby recruits various substrates to these sites to ubiquitinate them (PubMed:27129234, PubMed:24813944). This activity also allows the maintenance of 5mC levels at specific genomic loci and regulates neuron-related gene expression (By similarity). Participates in cell cycle regulation by ubiquitinating cyclins CCND1 and CCNE1 and thereby inducing G1 arrest (PubMed:15178429, PubMed:15361834, PubMed:21952639). Ubiquitinates also PCNP leading to its degradation by the proteasome (PubMed:14741369, PubMed:12176013). Plays an active role in DNA damage repair by ubiquitinating p21/CDKN1A leading to its proteasomal degradation (PubMed:29923055). Promotes also DNA repair by acting as an interstrand cross-links (ICLs) sensor. Mechanistically, cooperates with UHRF1 to ensure recruitment of FANCD2 to ICLs, leading to FANCD2 monoubiquitination and subsequent activation (PubMed:30335751). Contributes to UV-induced DNA damage response by physically interacting with ATR in response to irradiation, thereby promoting ATR activation (PubMed:33848395). {ECO:0000250|UniProtKB:Q7TMI3, ECO:0000269|PubMed:12176013, ECO:0000269|PubMed:14741369, ECO:0000269|PubMed:15178429, ECO:0000269|PubMed:15361834, ECO:0000269|PubMed:21952639, ECO:0000269|PubMed:23404503, ECO:0000269|PubMed:24813944, ECO:0000269|PubMed:27129234, ECO:0000269|PubMed:27743347, ECO:0000269|PubMed:29506131, ECO:0000269|PubMed:29923055, ECO:0000269|PubMed:30335751, ECO:0000269|PubMed:33848395}.

Target Details

Molecular Weight:	90.0 kDa
UniProt:	Q96PU4

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