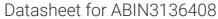
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E4F1 Protein (AA 1-783) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	E4F1
Protein Characteristics:	AA 1-783
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This E4F1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MEGAMAVRVT AAHTAEARAE AGREAGEGGV AAAAALSSGG FLGLPAPFSE EDEDDVHRCG RCQVEFTALE DFVQHKIQKT CHRAPQEALP TTPAATALLD QEVVPTAAEG GPDEPITVAH IVVEATSLAE DISHAPDLVG SGHIKEVIVA AEAEPGDVEM AEAPGSPNHQ ELGLLGEGEQ AHVKLLVNKE GRYVCMLCHK TFKTGSILKA HMVTHSSRKD HECKLCGASF RTKGSLIRHH RRHTDERPYK CAKCGKSFRE SGALTRHLKS LTPCTEKIRF SISKDTAVGK EEVPAGSSAS TVGTVTSSVA GDPMETSPVI HLVTDAKGTV IHEVHVQMQE LPLGMKALTP ESPDSEELPC SSENSRENLL HQAMQNSGIV LERVAGEESA LEPAPPSGSS PQCLGDGSPE LPLLKVEQIE TQVASEAATV PRTHPCPQCS ETFPTAATLE AHKRGHIAPR PFTCTQCGKA FPKAYLLKKH QEVHVHERRF RCGDCGKLYK TIAHVRGHRR VHSDERPFPC PQCGKRYKTK NAQQVHFRTH LEEKPHVCQF CSRGFREKGS LVRHVRHHTG EKPFKCYKCG RGFAEHGTLN RHLRTKGGCL LEVEELLVSE ESPSAAATVL AEDPHTVLVE FSSVVADTQE YIIEATADDT ETSEATEIIE GTQTEVDSHI MKVVQQIVHQ AGAGHQIIVQ NVTMDQETAL GSEATAADTI TIATPESLTE

QVAMTLASAI SEGTVLTARA GPNSTEQATV TMVSSEDIEI LEHGGELVIA SPEGQLEVQT VIV

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System

Product Details	
	(ALiCE®):
	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Target Details	
Target:	E4F1
Alternative Name:	E4f1 (E4F1 Products)
Background:	Transcription factor E4F1 (EC 2.3.2.27) (E4F transcription factor 1) (Putative E3 ubiquitin-protein ligase E4F1) (RING-type E3 ubiquitin transferase E4F1) (Transcription factor E4F) (Transcription factor phi AP3) (p120E4F),FUNCTION: May function as a transcriptional repressor. May also function as a ubiquitin ligase mediating ubiquitination of chromatin-associated TP53. Functions in cell survival and proliferation through control of the cell cycle. Functions in the p53 and pRB tumor suppressor pathways and regulates the cyclin CCNA2 transcription. {ECO:0000269 PubMed:10644996, ECO:0000269 PubMed:15226446, ECO:0000269 PubMed:17557114, ECO:0000269 PubMed:8262041}.
Molecular Weight:	84.3 kDa
UniProt:	Q8CCE9
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

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

modifications.

Application Details

	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. If you have a special request,
	please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)