Datasheet for ABIN3092279

E2F8 Protein (AA 1-867) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	E2F8
Protein Characteristics:	AA 1-867
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This E2F8 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MENEKENLFC EPHKRGLMKT PLKESTTANI VLAEIQPDFG PLTTPTKPKE GSQGEPWTPT ANLKMLISAV SPEIRNRDQK RGLFDNRSGL PEAKDCIHEH LSGDEFEKSQ PSRKEKSLGL LCHKFLARYP NYPNPAVNND ICLDEVAEEL NVERRRIYDI VNVLESLHMV SRLAKNRYTW HGRHNLNKTL GTLKSIGEEN KYAEQIMMIK KKEYEQEFDF IKSYSIEDHI IKSNTGPNGH PDMCFVELPG VEFRAASVNS RKDKSLRVMS QKFVMLFLVS TPQIVSLEVA AKILIGEDHV EDLDKSKFKT KIRRLYDIAN VLSSLDLIKK VHVTEERGRK PAFKWTGPEI SPNTSGSSPV IHFTPSDLEV RRSSKENCAK NLFSTRGKPN FTRHPSLIKL VKSIESDRRK INSAPSSPIK TNKAESSQNS APFPSKMAQL AAICKMQLEE QSSESRQKVK VQLARSGPCK PVAPLDPPVN AEMELTAPSL IQPLGMVPLI PSPLSSAVPL ILPQAPSGPS YAIYLQPTQA HQSVTPPQGL SPTVCTTHSS KATGSKDSTD ATTEKAANDT SKASASTRPG SLLPAPERQG AKSRTREPAG ERGSKRASML EDSGSKKKFK EDLKGLENVS ATLFPSGYLI PLTQCSSLGA ESILSGKENS

SALSPNHRIY SSPIAGVIPV TSSELTAVNF PSFHVTPLKL MVSPTSVAAV PVGNSPALAS SHPVPIQNPS SAIVNFTLQH LGLISPNVQL SASPGSGIVP VSPRIESVNV APENAGTQQG RATNYDSPVP GQSQPNGQSV AVTGAQQPVP VTPKGSQLVA ESFFRTPGGP TKPTSSSCMD FEGANKTSLG TLFVPQRKLE VSTEDVH

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.

Product Details

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:	E2F8
Alternative Name:	E2F8 (E2F8 Products)
Background:	Transcription factor E2F8 (E2F-8),FUNCTION: Atypical E2F transcription factor that participates in various processes such as angiogenesis and polyploidization of specialized cells. Mainly acts as a transcription repressor that binds DNA independently of DP proteins and specifically recognizes the E2 recognition site 5'-TTTC[CG]CGC-3'. Directly represses transcription of classical E2F transcription factors such as E2F1: component of a feedback loop in S phase by repressing the expression of E2F1, thereby preventing p53/TP53-dependent apoptosis. Plays a key role in polyploidization of cells in placenta and liver by regulating the endocycle, probably by repressing genes promoting cytokinesis and antagonizing action of classical E2F proteins (E2F1, E2F2 and/or E2F3). Required for placental development by promoting polyploidization of trophoblast giant cells. Acts as a promoter of sprouting angiogenesis, possibly by acting as a transcription activator: associates with HIF1A, recognizes and binds the VEGFA promoter, which is different from canonical E2 recognition site, and activates expression of the VEGFA gene. {ECO:0000269|PubMed:15897886, ECO:0000269|PubMed:16179649, ECO:0000269|PubMed:18202719, ECO:0000269|PubMed:22903062}.
Molecular Weight:	94.2 kDa
UniProt:	A0AVK6

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

Application Details

	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