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Datasheet for ABIN3087595 RUNX3 Protein (AA 1-415) (Strep Tag)



Overview

Quantity:	1 mg
Quantity.	
Target:	RUNX3
Protein Characteristics:	AA 1-415
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RUNX3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:	MRIPVDPSTS RRFTPPSPAF PCGGGGGKMG ENSGALSAQA AVGPGGRARP EVRSMVDVLA
	DHAGELVRTD SPNFLCSVLP SHWRCNKTLP VAFKVVALGD VPDGTVVTVM AGNDENYSAE
	LRNASAVMKN QVARFNDLRF VGRSGRGKSF TLTITVFTNP TQVATYHRAI KVTVDGPREP
	RRHRQKLEDQ TKPFPDRFGD LERLRMRVTP STPSPRGSLS TTSHFSSQPQ TPIQGTSELN
	PFSDPRQFDR SFPTLPTLTE SRFPDPRMHY PGAMSAAFPY SATPSGTSIS SLSVAGMPAT
	SRFHHTYLPP PYPGAPQNQS GPFQANPSPY HLYYGTSSGS YQFSMVAGSS SGGDRSPTRM
	LASCTSSAAS VAAGNLMNPS LGGQSDGVEA DGSHSNSPTA LSTPGRMDEA VWRPY
	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:

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- · 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 (ALiCE®):

- 1. 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.

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Product Details

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:	RUNX3
Alternative Name:	RUNX3 (RUNX3 Products)
Background:	Runt-related transcription factor 3 (Acute myeloid leukemia 2 protein) (Core-binding factor
	subunit alpha-3) (CBF-alpha-3) (Oncogene AML-2) (Polyomavirus enhancer-binding protein 2
	alpha C subunit) (PEA2-alpha C) (PEBP2-alpha C) (SL3-3 enhancer factor 1 alpha C subunit)
	(SL3/AKV core-binding factor alpha C subunit),FUNCTION: Forms the heterodimeric complex
	core-binding factor (CBF) with CBFB. RUNX members modulate the transcription of their targe
	genes through recognizing the core consensus binding sequence 5'-TGTGGT-3', or very rarely,
	5'-TGCGGT-3', within their regulatory regions via their runt domain, while CBFB is a non-DNA-
	binding regulatory subunit that allosterically enhances the sequence-specific DNA-binding
	capacity of RUNX. The heterodimers bind to the core site of a number of enhancers and
	promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers
	LCK, IL3 and GM-CSF promoters (By similarity). May be involved in the control of cellular
	proliferation and/or differentiation. In association with ZFHX3, up-regulates CDKN1A promote
	activity following TGF-beta stimulation (PubMed:20599712). CBF complexes repress ZBTB7B
	transcription factor during cytotoxic (CD8+) T cell development. They bind to RUNX-binding
	sequence within the ZBTB7B locus acting as transcriptional silencer and allowing for cytotoxic
	T cell differentiation. CBF complexes binding to the transcriptional silencer is essential for
	recruitment of nuclear protein complexes that catalyze epigenetic modifications to establish
	epigenetic ZBTB7B silencing (By similarity). {ECO:0000250 UniProtKB:Q64131,
	ECO:0000269 PubMed:20599712}.
Molecular Weight:	44.4 kDa
UniProt:	Q13761
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.

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Storage:

Expiry Date:

Handling Advice:

Storage Comment:

	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

please contact us.

-80 °C

Store at -80°C.

Avoid repeated freeze-thaw cycles.

Unlimited (if stored properly)

The buffer composition is at the discretion of the manufacturer. If you have a special request,