

Datasheet for ABIN3077304 SOX5 Protein (AA 1-763) (Strep Tag)



Overview

Quantity:	250 µg
Target:	SOX5
Protein Characteristics:	AA 1-763
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SOX5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MLTDPDLPQE FERMSSKRPA SPYGEADGEV AMVTSRQKVE EEESDGLPAF HLPLHVSFPN
	KPHSEEFQPV SLLTQETCGH RTPTSQHNTM EVDGNKVMSS FAPHNSSTSP QKAEEGGRQS
	GESLSSTALG TPERRKGSLA DVVDTLKQRK MEELIKNEPE ETPSIEKLLS KDWKDKLLAM
	GSGNFGEIKG TPESLAEKER QLMGMINQLT SLREQLLAAH DEQKKLAASQ IEKQRQQMEL
	AKQQQEQIAR QQQQLLQQQH KINLLQQQIQ VQGQLPPLMI PVFPPDQRTL AAAAQQGFLL
	PPGFSYKAGC SDPYPVQLIP TTMAAAAAAT PGLGPLQLQQ LYAAQLAAMQ VSPGGKLPGI
	PQGNLGAAVS PTSIHTDKST NSPPPKSKDE VAQPLNLSAK PKTSDGKSPT SPTSPHMPAL
	RINSGAGPLK ASVPAALASP SARVSTIGYL NDHDAVTKAI QEARQMKEQL RREQQVLDGK
	VAVVNSLGLN NCRTEKEKTT LESLTQQLAV KQNEEGKFSH AMMDFNLSGD SDGSAGVSES
	RIYRESRGRG SNEPHIKRPM NAFMVWAKDE RRKILQAFPD MHNSNISKIL GSRWKAMTNL
	EKQPYYEEQA RLSKQHLEKY PDYKYKPRPK RTCLVDGKKL RIGEYKAIMR NRRQEMRQYF

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NVGQQAQIPI ATAGVVYPGA IAMAGMPSPH LPSEHSSVSS SPEPGMPVIQ STYGVKGEEP HIKEEIQAED INGEIYDEYD EEEDDPDVDY GSDSENHIAG QAN

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®).

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Product Details

 Purity:
 > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

 Grade:
 custom-made

Target Details

Target:	SOX5
Alternative Name:	SOX5 (SOX5 Products)
Background:	Transcription factor SOX-5,FUNCTION: Transcription factor involved in chondrocytes differentiation and cartilage formation. Specifically binds the 5'-AACAAT-3' DNA motif present in enhancers and super-enhancers and promotes expression of genes important for chondrogenesis, including cartilage matrix protein-coding genes, such as COL2A1 and AGC1. Required for overt chondrogenesis when condensed prechondrocytes differentiate into early stage chondrocytes: SOX5 and SOX6 cooperatively bind with SOX9 on active enhancers and super-enhancers associated with cartilage-specific genes, and thereby potentiate SOX9's ability to transactivate. Not involved in precartilaginous condensation, the first step in chondrogenesis during which skeletal progenitors differentiate into prechondrocytes. Together with SOX6, required to form and maintain a pool of highly proliferating chondroblasts between epiphyses and metaphyses, to form columnar chondroblasts, delay chondrocyte prehypertrophy but promote hypertrophy, and to delay terminal differentiation of chondrocytes on contact with ossification fronts. Binds to the proximal promoter region of the myelin protein MPZ gene. {EC0:0000250 UniProtKB:P35710}.
Molecular Weight:	84.0 kDa
UniProt:	P35711
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

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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
Format: Buffer:	Liquid The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
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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.
Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. Avoid repeated freeze-thaw cycles.