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Datasheet for ABIN7555333  
**SATB1 Protein (AA 1-763) (His tag)**

## Overview

Quantity:	1 mg
Target:	SATB1
Protein Characteristics:	AA 1-763
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SATB1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant SATB1 Protein expressed in mammalian cells.
Sequence:	MDHLNEATQG KEHSEMSNNV SDPKGPPAKI ARLEQNGSPL GRGRLGSTGA KMQGVPLKHS GHLMKTNLRK GTMLPVFCVV EHYENAIEYD CKEEHAEFVL VRKDMLFNQL IEMALLSLGY SHSSAAQAKG LIQVGKWNPV PLSYVTDAPD ATVADMLQDV YHVVTLKIQL HSCP KLEDLP PEQWSHTTVR NALKDLLKDM NQSSLAKECP LSQSMISSIV NSTYYANVSA AKCQEFGRWY KHFKKTKDMM VEMDSLSELS QGANHVNFG QPVP GNTAE QPPSPAQLSH GSQPSVRTPL PNLHPGLVST PISPQLVNQQ LVMAQLLNQQ YAVNRLLAQQ SLNQQLNHP PPVSRSMNKP LEQQVSTNTE VSSEIQWVR DELKRAGISQ AVFARVAFNR TQGLLSEILR KEEDPKTASQ SLLVNL RAMQ NFLQLPEAER DRIYQDERER SLNAASAMGP APLISTPPSR PPQVKTATIA TERN GK PENN TMNINASIYD EIQQEMKRAK VSQALFAKVA ATKSQGWLCE LLRWKEDPSP ENRTLWENLS MIRRFLSLPQ PERDAIYEQE SNAVHHHGDR PPHIIHVPAE QIQQQQQQQQ QQQQQQQAPP PPQPQQQPQT GPRLPPRQPT VASPAESDEE NRQKTRPRTK ISVEALGILQ SFIQDVGLYP DEEAIQTLA QLDLPKYTII KFFQNQRYYL KHHGKLDNS GLEVDVAEYK

## Product Details

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EEELLKDL EE SVQDKNTNTL FSVKLEEEELS VEGNTDINTD LKD **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

**Characteristics:** **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

**Grade:** custom-made

## Target Details

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**Target:** SATB1

**Alternative Name:** SATB1 ([SATB1 Products](#))

**Background:** DNA-binding protein SATB1 (Special AT-rich sequence-binding protein 1),FUNCTION: Crucial silencing factor contributing to the initiation of X inactivation mediated by Xist RNA that occurs during embryogenesis and in lymphoma (By similarity). Binds to DNA at special AT-rich sequences, the consensus SATB1-binding sequence (CSBS), at nuclear matrix- or scaffold-associated regions. Thought to recognize the sugar-phosphate structure of double-stranded DNA. Transcriptional repressor controlling nuclear and viral gene expression in a phosphorylated and acetylated status-dependent manner, by binding to matrix attachment

## Target Details

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regions (MARs) of DNA and inducing a local chromatin-loop remodeling. Acts as a docking site for several chromatin remodeling enzymes (e.g. PML at the MHC-I locus) and also by recruiting corepressors (HDACs) or coactivators (HATs) directly to promoters and enhancers. Modulates genes that are essential in the maturation of the immune T-cell CD8SP from thymocytes. Required for the switching of fetal globin species, and beta- and gamma-globin genes regulation during erythroid differentiation. Plays a role in chromatin organization and nuclear architecture during apoptosis. Interacts with the unique region (UR) of cytomegalovirus (CMV). Alu-like motifs and SATB1-binding sites provide a unique chromatin context which seems preferentially targeted by the HIV-1 integration machinery. Moreover, HIV-1 Tat may overcome SATB1-mediated repression of IL2 and IL2RA (interleukin) in T-cells by binding to the same domain than HDAC1. Delineates specific epigenetic modifications at target gene loci, directly up-regulating metastasis-associated genes while down-regulating tumor-suppressor genes. Reprograms chromatin organization and the transcription profiles of breast tumors to promote growth and metastasis. Promotes neuronal differentiation of neural stem/progenitor cells in the adult subventricular zone, possibly by positively regulating the expression of NEUROD1 (By similarity). {ECO:0000250|UniProtKB:Q60611, ECO:0000269|PubMed:10595394, ECO:0000269|PubMed:11463840, ECO:0000269|PubMed:12374985, ECO:0000269|PubMed:12692553, ECO:0000269|PubMed:1505028, ECO:0000269|PubMed:15618465, ECO:0000269|PubMed:15713622, ECO:0000269|PubMed:16377216, ECO:0000269|PubMed:16630892, ECO:0000269|PubMed:17173041, ECO:0000269|PubMed:17376900, ECO:0000269|PubMed:18337816, ECO:0000269|PubMed:19103759, ECO:0000269|PubMed:19247486, ECO:0000269|PubMed:19332023, ECO:0000269|PubMed:19430959, ECO:0000269|PubMed:33513338, ECO:0000269|PubMed:9111059, ECO:0000269|PubMed:9548713}.

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Molecular Weight: 86.0 kDa

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UniProt: [Q01826](#)

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Pathways: [Caspase Cascade in Apoptosis, Activated T Cell Proliferation](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months