

Datasheet for ABIN7555339  
**RUNX2 Protein (AA 1-521) (His tag)**



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## Overview

Quantity:	1 mg
Target:	RUNX2
Protein Characteristics:	AA 1-521
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RUNX2 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant RUNX2 Protein expressed in mammalian cells.
Sequence:	<p>MASNSLFSTV TPCQQNFFWD PSTSRRFSP SSSLQPGKMS DVSPVAAQ QQQQQQQQQQ</p> <p>QQQQQQQQQQ QEAAAAAAAA AAAAAAAAV PRLRPPHDNR TMVEIADHP AELVRTDSPN</p> <p>FLCSVLPSHW RCNKTLPVAF KVALGEVPD GTVVTVMAGN DENYSAELRN ASAVMKNQVA</p> <p>RFNDLRFVGR SGRGKSFTLT ITVFTNPPQV ATYHRAIKVT VDGPREPRRH RQKLDDSKPS</p> <p>LFSDRLSDLG RIPHPMRVG VPPQNPRPSL NSAPSPFNPQ GQSQITDPRQ AQSSPPWSYD</p> <p>QSYPSYLSQM TSPSIHSTTP LSSTRGTGLP AITDVPRRI DDDTATSDFC LWPSTLSKKS</p> <p>QAGASELGP SDPRQFPSIS SLTESRFSNP RMHYPATFTY TPPVTSGMSL GMSATTHYHT</p> <p>YLPYPYPGSS QSQSGPFQTS STPYLYYGTS SGSYQFPMVP GGDRSPSRML PPCTTTNNGS</p> <p>TLLNPNLPNQ NDGVDADGSH SSSPTVLNSS GRMDESVWRP Y <b>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.</b></p>

## Product Details

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:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

## Target Details

Target:	RUNX2
Alternative Name:	RUNX2 ( <a href="#">RUNX2 Products</a> )
Background:	<p>Runt-related transcription factor 2 (Acute myeloid leukemia 3 protein) (Core-binding factor subunit alpha-1) (CBF-alpha-1) (Oncogene AML-3) (Osteoblast-specific transcription factor 2) (OSF-2) (Polyomavirus enhancer-binding protein 2 alpha A subunit) (PEA2-alpha A) (PEBP2-alpha A) (SL3-3 enhancer factor 1 alpha A subunit) (SL3/AKV core-binding factor alpha A subunit),FUNCTION: Transcription factor involved in osteoblastic differentiation and skeletal morphogenesis (PubMed:28505335, PubMed:28738062, PubMed:28703881). Essential for the maturation of osteoblasts and both intramembraneous and endochondral ossification. CBF binds to the core site, 5'-PYGPYGGT-3', of a number of enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers, osteocalcin, osteopontin, bone sialoprotein, alpha 1(I) collagen, LCK, IL-3 and GM-CSF promoters. In osteoblasts, supports transcription activation: synergizes with SPEN/MINT to enhance FGFR2-</p>

## Target Details

	mediated activation of the osteocalcin FGF-responsive element (OCFRE) (By similarity). Inhibits KAT6B-dependent transcriptional activation. {ECO:0000250, ECO:0000269 PubMed:11965546, ECO:0000269 PubMed:28505335, ECO:0000269 PubMed:28703881, ECO:0000269 PubMed:28738062}.
Molecular Weight:	56.6 kDa
UniProt:	<a href="#">Q13950</a>

## Application Details

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.
Restrictions:	For Research Use only

## Handling

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