

Datasheet for ABIN7563613
RUNX2 Protein (AA 1-607) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	RUNX2
Protein Characteristics:	AA 1-607
Origin:	Mouse
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>MLHSPHKQPQ NHKCGANFLQ EDCKKALAFK WLISAGHYQP PRPTESVSAL TTVHAGIFKA</p> <p>ASSIYNRGHK FYLEKKGGTM ASNSLFSAVT PCQQSFFWDP STSRRFSPPS SSLQPGKMSD</p> <p>VSPVVAAQQQ QQQQQQQQQQ QQQQQQQQQQ QQQQQQEAAA AAAAAAAAAA AAAAAVPRLR</p> <p>PPHDNRTMVE IIADHPAELV RTDSPNFLCS VLP SHWRCNK TLPVAFKVVA LGEVPDGTVV</p> <p>TVMAGNDENY SAELRNASAV MKNQVARFND LRFVGRSGRG KSFTLTITVF TNPPQVATYH</p> <p>RAIKVTVDGP REPRRHRQKL DDSKPSLFSD RLSDLGRIPH PSMRVGVPPQ NPRPSLNSAP</p> <p>SPFNPQGQSQ ITDPRQAQSS PPWSYDQSY SYLSQMTSPS IHSTTPLSST RGTGLPAITD</p> <p>VPRRISDDDT ATSDFCLWPS SLSKKSQAGA SELGPFSDPR QFPSISLSTE SRFSNPRMHY</p> <p>PATFTYTPPV TSGMSLGMSA TTHYHTYLPP PYPGSSQSQS GPFQTSSTPY LYYGTSSASY</p> <p>QFPMVPGGDR SPSRMVPPCT TTSNGSTLLN PNLPNQNDGV DADGSHSSSP TVLNSSGRMD</p> <p>ESVWRPY 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</p>

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

Target: RUNX2

Alternative Name: Runx2 ([RUNX2 Products](#))

Background: 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. Essential for the maturation of osteoblasts and both intramembranous 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. Inhibits KAT6B-dependent transcriptional activation (By similarity). In

Target Details

	osteoblasts, supports transcription activation: synergizes with SPEN/MINT to enhance FGFR2-mediated activation of the osteocalcin FGF-responsive element (OCFRE). {ECO:0000250, ECO:0000269 PubMed:20484411, ECO:0000269 PubMed:9182763}.
Molecular Weight:	66.2 kDa
UniProt:	Q08775

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