

Datasheet for ABIN7563213
SOX6 Protein (AA 1-827) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	SOX6
Protein Characteristics:	AA 1-827
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SOX6 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Sox6 Protein expressed in mammalien cells.
Sequence:	<p>MSSKQATSPF ACTADGEEAM TQDLTSREKE EGSDQHPASH LPLHPIMHNK PHSEELPTLV</p> <p>STIQQDADWD SVLSSQQRME SENNKLCSLY SFRNTSTSPH KPDEGSRERE IMNSVTFGTP</p> <p>ERRKGSLADV VDTLKQKKLE EMTRTEQEDS SCMEKLLSKD WKEKMERLNT SELLGEIKGT</p> <p>PESLAEKERQ LSTMITQLIS LREQLAAHD EQKKLAASQI EKQRQQMDLA RQQQEQIARQ</p> <p>QQQLLQQQHK INLLQQQIQV QGHMPPLMIP IFPHDQRTLA AAAAAQQGFL FPPGITYKPG</p> <p>DNYPVQFIPS TMAAAAASGL SPLQLQKGHV SHPQINPRLK GISDRFGRNL DPSEHGGGHS</p> <p>YNHRQIEQLY AAQLASMQVS PGAKMPSTPQ PPNSAGAVSP TGIKNEKRG T SPVTQVKDET</p> <p>TAQPLNLSSR PKTAEPVKSP TSPTQNLFPA SKTSPVNLPN KSSIPSPIGG SLGRGSSLDI</p> <p>LSSLNSPALF GDQDTVMAI QEARKMREQI QREQQQPHG VDGKLSSMNN MGLSNCRTEK</p> <p>ERTRFENLGP QLTGKSSDGL KLGPGVIDLT RPEDAEGSKA MNGSAAKLQQ YYCWPTGGAT</p> <p>VAEARVYRDA RGRASSEPHI KRPMNAFMVW AKDERRKILQ AFPDMHNSNI SKILGSRWKS</p>

MSNQEKPYY EEQARLSKIH LEKYPNYKYK PRPKRTCIVD GKCLRIGEYK QLMRSRRQEM
RQFFTVGQQP QMPITTGTGV VYPGAIMAT TTPSPQMTSD CSSTSASPEP SLPVIQSTYG
MKMDGASLAG NDMINGEDEM EAYDDYEDDP KSDYSSSENEA PEPVSAN **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.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <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>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	SOX6
Alternative Name:	Sox6 (SOX6 Products)
Background:	Transcription factor SOX-6 (SOX-LZ),FUNCTION: Transcription factor that plays a key role in several developmental processes, including neurogenesis, chondrocytes differentiation and cartilage formation (Probable). Specifically binds the 5'-AACAAAT-3' DNA motif present in enhancers and super-enhancers and promotes expression of genes important for chondrogenesis (PubMed:9755172, PubMed:11702786). 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

Target Details

cartilage-specific genes, and thereby potentiate SOX9's ability to transactivate (PubMed:11702786, PubMed:15529345, PubMed:26150426). Not involved in precartilaginous condensation, the first step in chondrogenesis, during which skeletal progenitors differentiate into prechondrocytes (PubMed:14993235, PubMed:26150426). Together with SOX5, 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 (PubMed:14993235). Binds to the proximal promoter region of the myelin protein MPZ gene, and is thereby involved in the differentiation of oligodendroglia in the developing spinal tube (PubMed:26525805). Binds to the gene promoter of MBP and acts as a transcriptional repressor (PubMed:26525805). {ECO:0000269|PubMed:11702786, ECO:0000269|PubMed:14993235, ECO:0000269|PubMed:15529345, ECO:0000269|PubMed:26150426, ECO:0000269|PubMed:26525805, ECO:0000269|PubMed:32442410, ECO:0000269|PubMed:7567444, ECO:0000269|PubMed:9755172, ECO:0000305|PubMed:32442410}.

Molecular Weight: 91.8 kDa

UniProt: [P40645](#)

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.

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