

Product datasheet for **TP308944**

SOX9 (NM_000346) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human SRY (sex determining region Y)-box 9 (SOX9), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC208944 representing NM_000346
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MNLLDPFMKMTDEQEKGLSGAPSPTMSEDSAGSPCPSGSGSDTENTRPQENTFPKGEPLDKKESEEDKFP
VCIREAVSQVLKGYDWTLVPMPVVRVNGSSKNKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLG
KLWRLNNESEKRPFVEEAERLRVQHKKDHPDYKYQPRRRKSVKNGQAEAEATEQTHISPNAIFKALQAD
SPHSSSGMSEVHSPGEHSGSQGPPTPTTPKTDVQPGKADLKREGRPLPEGGRPPIIDFRDVIDIGELSS
DVISNIETFDVNEFDQYLPPNGHPGVPATHGQVTTYTGSYGISSTAATPASAGHVWMSKQQAPPPPPQPPP
QAPPAPQAPPQQAAPPQQAAPPQQAHTLTTLSSEPGQSQRTHIKTEQLSPSHYSEQQQHSPQQIAY
SPFNLPHYSPYPITRSQYDYTDHQNSSSYSHAAGQGTGLYSTFTYMNPAQRPMYTPADTSGVPSIP
QTHSPQHWEQPVYTQLTRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	56 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	EMSA assay (PMID: 26040697)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



[View online »](#)

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_000337](#)

Locus ID: 6662

UniProt ID: [P48436](#)

RefSeq Size: 3935

Cytogenetics: 17q24.3

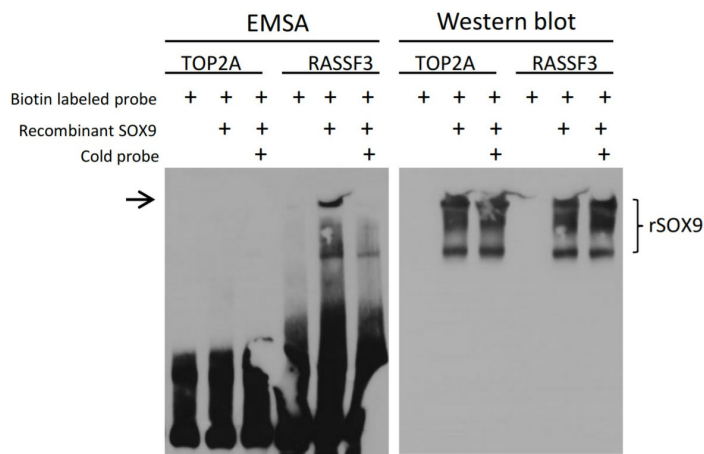
RefSeq ORF: 1527

Synonyms: CMD1; CMPD1; SRA1; SRXX2; SRXY10

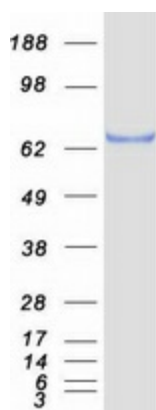
Summary: The protein encoded by this gene recognizes the sequence CCTTGAG along with other members of the HMG-box class DNA-binding proteins. It acts during chondrocyte differentiation and, with steroidogenic factor 1, regulates transcription of the anti-Muellerian hormone (AMH) gene. Deficiencies lead to the skeletal malformation syndrome campomelic dysplasia, frequently with sex reversal. [provided by RefSeq, Jul 2008]

Protein Families: Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors

Product images:



Recombinant human SOX9 protein directly binds to RASSF3 promoter sequence, but not TOP2A promoter sequence. EMSA was performed with biotin-labeled oligonucleotides for TOP2A and RASSF3 with or without recombinant SOX9 (OriGene TP308944). Excess unlabeled oligonucleotides (cold probe) served as controls. Both sequences contain the SOX9 peak center obtained from ChIP-seq experiments. Western blot was performed on the same membrane used for EMSA to detect recombinant human SOX9 protein. Figure cited from Nucleic Acids Res, PMID: 26040697



Coomassie blue staining of purified SOX9 protein (Cat# TP308944). The protein was produced from HEK293T cells transfected with SOX9 cDNA clone (Cat# [RC208944]) using MegaTran 2.0 (Cat# [TT210002]).