

## Product datasheet for **TP308944M**

### 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), 100 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: <a href="#">26040697</a> )
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.



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**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

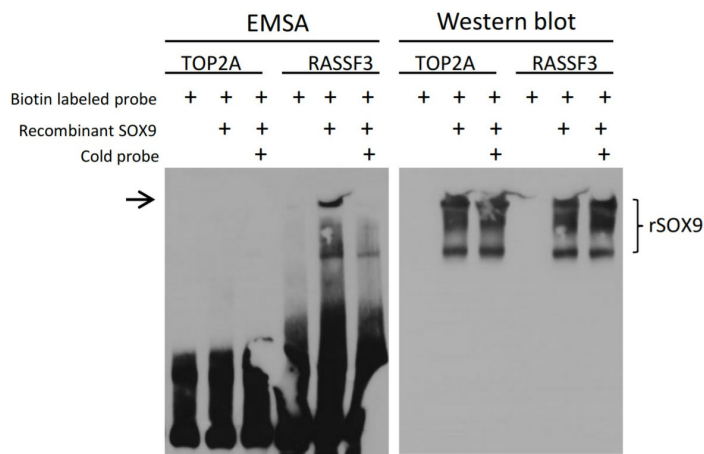
**RefSeq ORF:** 1527

**Synonyms:** CMD1; CMPD1; SRA1; SRXX2; SRXY10

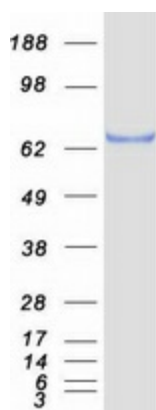
**Summary:** The protein encoded by this gene recognizes the sequence CCTTGAG along with other members of the HMG-box class DNA-binding proteins. It acts during chondrocyte differentiation and, with steroidogenic factor 1, regulates transcription of the anti-Muellerian hormone (AMH) gene. Deficiencies 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]).