

Product datasheet for **RC208944**

SOX9 (NM_000346) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOX9 (NM_000346) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SOX9
Synonyms:	CMD1; CMPD1; SRA1; SRXX2; SRXY10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC208944 representing NM_000346
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATCTCCTGGACCCCTTCATGAAGATGACCGACGAGCAGGAGAAGGGCCTGTCCGGCGCCCCAGCC
 CCACCATGTCCGAGGACTCCGCGGGCTCGCCCTGCCCGTCGGGCTCCGGCTCGGACACCGAGAACACGCG
 GCCCCAGGAGAACACGTTCCCAAGGGCGAGCCCGATCTGAAGAAGGAGAGCGAGGAGCAAGTCCCC
 GTGTGCATCCGCGAGGCGGTGAGCCAGGTGCTCAAAGGCTACGACTGGACGCTGGTGCCCATGCCGGTGC
 GCGTCAACGGCTCCAGCAAGAACAAGCCGCACGTCAAGCGGCCCATGAACGCCTTCATGGTGTGGGCGCA
 GGCGGCGCGCAGGAAGCTCGCGGACCAGTACCCGCACTGCACAACGCCGAGCTCAGCAAGACGCTGGGC
 AAGCTCTGGAGACTTCTGAACGAGAGCGAGAAGCGGCCCTTCGTGGAGGAGGCGGAGCGGCTGCGCGTGC
 AGCACAAGAAGGACCACCCGATTACAAGTACCAGCCGCGGCGGAGGAAGTCGGTGAAGAACGGGCAGGC
 GGAGGCAGAGGAGCCACGGAGCAGACGCACATCTCCCCAACGCCATCTCAAGGCGCTCAGGCGCGAC
 TCGCCACACTCCTCCTCCGGCATGAGCGAGGTGCACTCCCCCGCGGAGCACTCGGGGAATCCCAGGGCC
 CACCGACCCACCACCACCCCAAAACCGACGTGCAGCCGGGCAAGGCTGACCTGAAGCGAGAGGGGCG
 CCCCTTGCCAGAGGGGGGAGACAGCCCTATCGACTTCGCGGACGTGGACATCGGCGAGCTGAGCAGC
 GACGTCATCTCCAACATCGAGACCTTCGATGTCAACGAGTTTGACCAGTACCTGCCGCCAACGGCCACC
 CGGGGGTCCCGGCCACGCACGGCCAGGTCACTACACGGGCGAGTACGGCATCAGCAGCACCGCGGCCAC
 CCCGGCGAGCGCGGGCCACGTGTGGATGTCAAAGCAGCAGGCGCCGCCGCCACCCCGCAGCAGCCCCCA
 CAGGCCCGCGCGGCCCGCAGGCGCCCCCGCAGCCGCGAGGCGCGGCCCCACAGCAGCGCGCGGCCCC
 CGCAGCAGCCACAGGCGCACACGCTGACCACGCTGAGCAGCGAGCGGGCCAGTCCCAAGCAACGCACAT
 CAAGACGGAGCAGCTGAGCCCCAGCCACTACAGCGAGCAGCAGCAGCACTCGCCCCAACAGATCGCCTAC
 AGCCCCCTCAACCTCCCACTACAGCCCTCCTACCCGCCATCACCCGCTCACAGTACGACTACACCG
 ACCACCAGAACTCCAGCTCCTACTACAGCCACGCGGCAGGCCAGGGCACCGGCTCTACTCCACCTTAC
 CTACATGAACCCCGCTCAGCGCCCCATGTACCCCCATCGCCGACACCTCTGGGGTCCCTTCCATCCCG
 CAGACCCACAGCCCCAGCACTGGGAACAACCCGTCTACACACAGCTCACTCGACCT

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208944 representing NM_000346
 Red=Cloning site Green=Tags(s)

MNLLDPFMKMTDEQEKGLSGAPSPMTSEDSAGSPCPSGSGSDTENTRPQENTFPKGEPDLKKESEEDKFP
 VCIREAVSQVLKGYDWTLVPMVVRVNGSSKNKPHVKRPMNAFMVWAQAARRKLDQYPHLHNAELSKTLG
 KLWRLNESEKRPFVEEAERLRVQHKDHPDYKYQPRRRKSVKNGQAEAEATEQTHISPNAIFKALQAD
 SPHSSSGMSEVHSPGEHSGSQSQGPPPTTPKTDVQPGKADLKREGRPLPEGGRQPPIDFRDVIDIGELSS
 DVISNIETFDVNEFDQYLPPNGHPGVPATHGQVYTGSGYSSTAATPASAGHVWMSKQQAPPPPPQPP
 QAPPAPQAPPQQAAPPQQAAPPQQAHTLTTL SSEPGQSQRTHIKTEQLSPSHYSEQQHSPQQAIA
 SPFNLPHYSYPPITRSQYDYTDHQNSSSYSHAAGQGTGLYSTFTYMNPAQRPMYTPIDTSGVPSIP
 QTHSPQHWEQPVYTQLTRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_000346.4](#)

RefSeq Size: 3935 bp

RefSeq ORF: 1530 bp

Locus ID: 6662

UniProt ID: [P48436](#)

Cytogenetics: 17q24.3

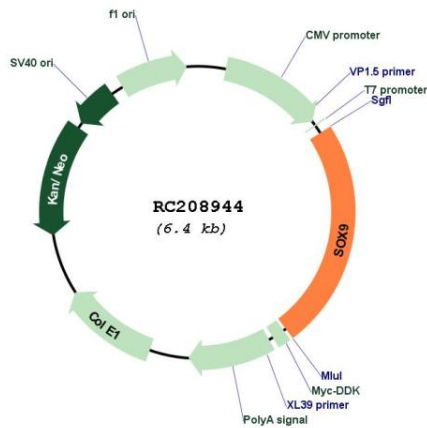
Domains: HMG

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

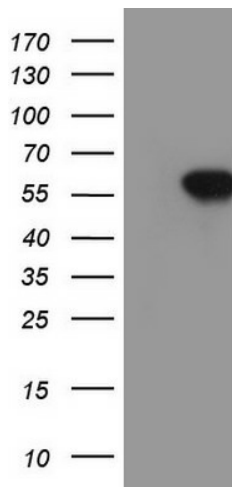
MW: 56 kDa

Gene 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]

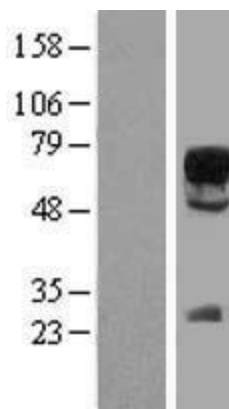
Product images:



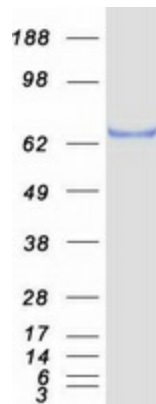
Circular map for RC208944



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SOX9 (Cat# RC208944, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SOX9 (Cat# [TA802387]). Positive lysates [LY424779] (100ug) and [LC424779] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY424779]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208944 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



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]).