

Product datasheet for **RG208944**

SOX9 (NM_000346) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOX9 (NM_000346) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SOX9
Synonyms:	CMD1; CMPD1; SRA1; SRXX2; SRXY10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208944 representing NM_000346
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAATCTCCTGGACCCCTTCATGAAGATGACCGACGAGCAGGAGAAGGGCCTGTCCGGCGCCCCAGCC
 CCACCATGTCCGAGGACTCCGCGGGCTCGCCCTGCCCGTCGGGCTCCGGCTCGGACACCGAGAACACGCG
 GCCCAGGAGAACACGTTCCCAAGGGCGAGCCCGATCTGAAGAAGGAGAGCGAGGAGGACAAGTCCCC
 GTGTGCATCCGCGAGGCGGTGAGCCAGGTGCTCAAAGGCTACGACTGGACGCTGGTGCCCATGCCGGTGC
 GCGTCAACGGCTCCAGCAAGAACAAGCCGCACGTCAAGCGGCCCATGAACGCCTTCATGGTGTGGGCGCA
 GGCGGCGCGCAGGAAGCTCGGGACCAGTACCCGCACTGCACAACGCCGAGCTCAGCAAGACGCTGGGC
 AAGCTCTGGAGACTTCTGAACGAGAGCGAGAAGCGGCCCTTCGTGGAGGAGGCGGAGCGGCTGCGCGTGC
 AGCACAAGAAGGACCACCCGATTACAAGTACCAGCCGCGGCGGAGGAAGTCGGTGAAGAACGGGCAGGC
 GGAGGCAGAGGAGCCACGGAGCAGACGCACATCTCCCAACGCCATCTCAAGGCGCTCAGGCGCGAC
 TCGCCACACTCCTCCTCCGGCATGAGCGAGGTGCACTCCCCCGCGAGCACTCGGGGAATCCCAGGGCC
 CACCGACCCACCCACCACCCCAAAAACCGACGTGCAGCCGGGCAAGGCTGACCTGAAGCGAGAGGGGCG
 CCCCTTGCCAGAGGGGGGAGACAGCCCTATCGACTTCGCGAGCTGGACATCGGCGAGCTGAGCAGC
 GACGTCATCTCCAACATCGAGACCTTCGATGTCAACGAGTTTGACCAGTACCTGCCGCCAACGGCCACC
 CGGGGGTCCCGGCCACGCACGGCCAGGTACCTACACGGGCGAGTACGGCATCAGCAGCACCGCGGCCAC
 CCCGGCGAGCGCGGGCCACGTGTGGATGTCAAAGCAGCAGGCGCCGCCGCCACCCCGCAGCAGCCCCA
 CAGGCCCGCGCGGCCCGCAGGCGCCCCCGCAGCCGCGAGGCGCGGCCCCACAGCAGCCGGCGGCCACCC
 CGCAGCAGCCACAGGCGCACAGCTGACCACGCTGAGCAGCGAGCGGGCCAGTCCCGAAGCAACGCAT
 CAAGACGGAGCAGCTGAGCCCCAGCCACTACAGCGAGCAGCAGCACTCGCCCCAACAGATCGCCTAC
 AGCCCCCTCAACCTCCCACTACAGCCCTCCTACCCGCCATCACCCGCTCACAGTACGACTACACCG
 ACCACCAGAACTCCAGCTCCTACTACAGCCACGCGGCAGGCCAGGGCACCGGCTCTACTCCACCTTAC
 CTACATGAACCCCGCTCAGCGCCCCATGTACCCCCATCGCCGACACCTCTGGGGTCCCTTCCATCCCG
 CAGACCCACAGCCCCAGCACTGGGAACAACCCGTCTACACACAGCTCACTCGACCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208944 representing NM_000346
 Red=Cloning site Green=Tags(s)

MNLLDPFMKMTDEQEKGLSGAPSPTMSSEDSAGSPSPSGSDTENTRPQENTFPKGEPLDKKESEEDKFP
 VCIREAVSQVLKGYDWTLPMPVVRVNGSSKNKPHVKRPMNAFMVWAQAARRKLDQYPHLHNAELSKTLG
 KLWRLLESEKRPFVEEAERLRVQHKKDPDYKYQPRRRKSVKNGQAEAEATEQTHISPNAIFKALQAD
 SPHSSGMSEVHSPGEHSGSQGPPTPPTPKTDVQPGKADLKREGRPLPEGGRQPPIDFRDVIDIGELSS
 DVISNIETFDVNEFDQYLPPNGHPGVPATHGQVYTYTGSYGISSTAATPASAGHVWMSKQAPPQPQP
 QAPPAPQAPPQQAAPPQQAAPPQQAHTLTTLSSEPGQSQRTHIKTEQLSPSHYSEQQHQSPQQAIA
 SPFNLPHYSYPPITRSQYDYTDHQNSSYSHAAGQGTGLYSTFTYMNPAQRPMYTPDIADTSVPSIP
 QTHSPQHWEQPVYTLTRP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_000346

ORF Size: 1527 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

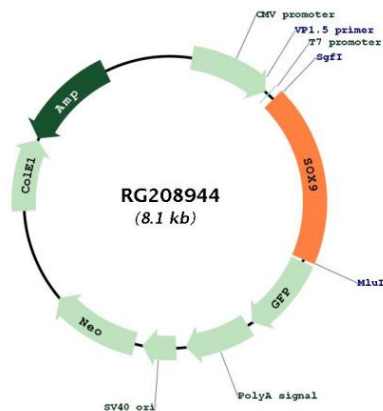
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

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
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 RG208944