

Product datasheet for **MG227031**

Sox9 (NM_011448) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sox9 (NM_011448) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sox9
Synonyms:	2010306G03Rik; AV220920; mKIAA4243
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227031 representing NM_011448
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATCTCTGGACCCCTTCATGAAGATGACCGACGAGCAGGAGAAGGGCTGTCTGGCGCCCCAGCC
 CCACCATGTCGGAGGACTCGGCTGGTTCGCCCTGTCCCTCGGGCTCCGGCTCGGACACGGAGAACACCCG
 GCCCAGGAGAACACCTTCCCAAGGGCGAGCCGGATCTGAAGAAGGAGAGCGAGGAAGATAAGTCCCC
 GTGTGCATCCGCGAGGCGGTGAGCCAGGTGCTGAAGGGCTACGACTGGACGCTGGTGCCCATGCCCGTGC
 GCGTCAACGGCTCCAGCAAGAACAAGCCACACGTCAAGCGACCCATGAACGCCTTCATGGTGTGGCGCA
 GGCTGCGCGCAGGAAGCTGGCAGACCAGTACCCGCATCTGCACAACCGGAGCTCAGCAAGACTCTGGG
 AAGCTCTGGAGGCTGCTGAACGAGAGCGAGAAGAGACCCCTTCGTGGAGGAGGCGGAGCGGCTGCGCGTGC
 AGCACAAGAAAGACCACCCCGATTACAAGTACCAGCCCCGGCGGAGGAAGTCGGTGAAGAACGGACAAGC
 GGAGGCCGAAGAGGCCACGGAACAGACTCACATCTCTCCTAATGTATCTTCAAGGCGCTGCAAGCCGAC
 TCCCCACATTCTCTCCGGCATGAGTGAGGTGCACTCCCCGGCGAGCACTCTGGGCAATCTCAGGGTC
 CGCCGACCCACCCACCACTCCCAAAACCGACGTGCAAGCTGGCAAAGTTGATCTGAAGCGAGAGGGGCG
 CCCTCTGGCAGAGGGGGCAGACAGCCCCCATCGACTCCGCGACGTGGACATCGGTGAAGTACGAGCAGC
 GACGTCATCTCCAACATTGAGACCTTCGACGTCAATGAGTTTGACCAATACTTGCCACCCAAACGGCCACC
 CAGGGGTTCCGGCCACCCACGGCCAGGTACCTACACTGGCAGTTACGGCATCAGCAGCACCACCCAC
 CCCTGCGACCGCGGGCCACGTGTGGATGTCGAAGCAGCAGGCGCCGCCCTCCTCCGAGCAGCCTCCG
 CAGGCCCGCAAGCCCCACAGGCGCCTCCGAGCAGCAAGCACCCTCCGAGCAGCCGAGGACCCACAGC
 AGCAGCAGGCACACAGCTCACCACGCTGAGCAGCGAGCCAGGCCAGTCCAGCGCAACGCATCAAGC
 GGAGCAGCTGAGCCCCAGCCACTACAGCGAGCAGCAGCACTCCCCGCAACAGATCTCCTACAGCCCC
 TTAACCTTCTCACTACAGCCCTCCTACCCGCCATCACCCGCTCGCAATACGACTACGCTGACCATC
 AGAACTCCGGCTCCTACTACAGTACGCAGCCGGCCAGGGCTCAGGGCTACTCCACCTTCACTTACAT
 GAACCCCGCGCAGCGCCCATGTACACCCCATCGCTGACACCTCCGGGGTCCCTTCCATCCCGCAGACC
 CACAGCCCGCAGCACTGGGAACAACCAGTCTACACACAGCTCACCAGACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG227031 representing NM_011448
 Red=Cloning site Green=Tags(s)

MNLLDPFMKMTDEQEKLSGAPSPTMSSEDSAGSPCPSGSGSDTENTRPQENTFPKGEPDLKKESEEDKFP
 VCIREAVSQVLKGYDWTLPMPVVRVNGSSKNKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLG
 KLWRLLENESEKRPFVEEAERLRVQHKKDPDYKYQPRRRKSVKNGQAEAEATEQTHISPNAIFKALQAD
 SPHSSSGMSEVHSPGEHSGSQGPPTPPTPKTDVQAGKVDLKRGRPLAEGGRQPPIDFRDVIDIGELSS
 DVISNIETFDVNEFDQYLPPNGHPGVPATHGQVYTGSGYSSTAPTPATAGHVWMSKQQAPPPPPQPP
 QAPQAPQAPPQQAPPQQPAPQQQAHTLTLLSSEPGQSQRTHIKTEQLSPSHYSEQQQHSPQQISYSP
 FNLPHYSYPPITRSQYDYADHQNSGSYYSHAAGQSGLYSTFTYMNPAQRPMYTPIDTSGVPSIPQT
 HSPQHWEQPVYTLTRP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_011448

ORF Size: 1521 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.

RefSeq: [NM_011448.4](#), [NP_035578.3](#)

RefSeq Size: 4146 bp

RefSeq ORF: 1524 bp

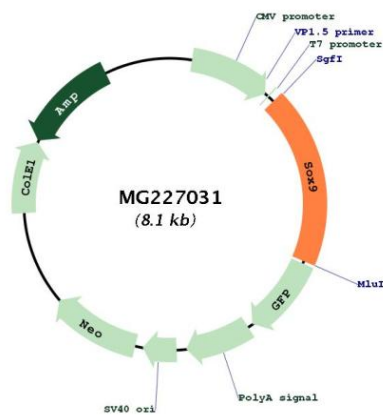
Locus ID: 20682

UniProt ID: [Q04887](#)

Cytogenetics: 11 77.27 cM

Gene Summary: Transcriptional regulator that plays a role in chondrocytes differentiation and skeletal development (PubMed:20940257, PubMed:28263186). Binds to the COL2A1 promoter and activates COL2A1 expression, as part of a complex with ZNF219 (PubMed:20940257). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG227031