

## Product datasheet for **MR227031**

### Sox9 (NM\_011448) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Sox9 (NM_011448) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                 |
| Symbol:                   | Sox9                                    |
| Synonyms:                 | 2010306G03Rik; AV220920; mKIAA4243      |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-Entry (PS100001)                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                    |



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**ORF Nucleotide Sequence:**

>MR227031 representing NM\_011448  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAATCTCTGGACCCCTTCATGAAGATGACCGACGAGCAGGAGAAGGGCTGTCTGGCGCCCCAGCC  
 CCACCATGTCGGAGGACTCGGCTGGTTCGCCCTGTCCCTCGGGCTCCGGCTCGGACACGGAGAACACCCG  
 GCCCAGGAGAACACCTTCCCAAGGGCGAGCCGGATCTGAAGAAGGAGAGCGAGGAAGATAAGTCCCC  
 GTGTGCATCCGCGAGGCGGTGAGCCAGGTGCTGAAGGGCTACGACTGGACGCTGGTGCCCATGCCGTGC  
 GCGTCAACGGCTCCAGCAAGAACAAGCCACACGTCAAGCGACCCATGAACGCCTTCATGGTGTGGCGCA  
 GGCTGCGCGCAGGAAGCTGGCAGACCAGTACCCGCATCTGCACAACCGGGAGCTCAGCAAGACTCTGGG  
 AAGCTCTGGAGGCTGCTGAACGAGAGCGAGAAGAGACCCTTCGTGGAGGAGGCGGAGCGGCTGCGCGTGC  
 AGCACAAGAAAGACCACCCCGATTACAAGTACCAGCCCCGGCGGAGGAAGTCGGTGAAGAACGGACAAGC  
 GGAGGCCGAAGAGCCACGGAACAGACTCACATCTCTCCTAATGTATCTTCAAGGCGCTGCAAGCCGAC  
 TCCCCACATTCTCTCCGGCATGAGTGAGGTGCACTCCCCGGGCGAGCACTCTGGGCAATCTCAGGGTC  
 CGCCGACCCACCCACCACTCCCAAAACCGACGTGCAAGCTGGCAAGTTGATCTGAAGCGAGAGGGGCG  
 CCCTCTGGCAGAGGGGGGAGACAGCCCCCATCGACTCCGCGACGTGGACATCGGTGAAGTGAAGCAGC  
 GACGTCATCTCCAACATTGAGACCTTCGACGTCAATGAGTTTGACCAATACTTGCCACCCAAACGGCCACC  
 CAGGGGTTCCGGCCACCCACGGCCAGGTACCTACACTGGCAGTTACGGCATCAGCAGCACCACCCAC  
 CCCTGCGACCGCGGGCCACGTGTGGATGTCGAAGCAGCAGGCGCCGCCCTCCTCCGACGAGCCTCCG  
 CAGGCCCGCAAGCCCCACAGGCGCCTCCGACGAGCAAGCACCCTCCGACGAGCCGAGGACCCACG  
 AGCAGCAGGCACACAGCTCACCACGCTGAGCAGCGAGCCAGGCCAGTCCAGCGAACGCACATCAAGC  
 GGAGCAGCTGAGCCCCAGCCACTACAGCGAGCAGCAGCACTCCCCGCAACAGATCTCCTACAGCCCC  
 TTCAACCTTCTCACTACAGCCCCCTCCTACCCGCCATCACCCTCGCAATACGACTACGCTGACCATC  
 AGAACTCCGGCTCCTACTACAGTACGCAGCCGGCCAGGGCTCAGGGCTCTACTCCACCTTCACTTACAT  
 GAACCCCGCGCAGCGCCCATGTACACCCCATCGCTGACACCTCCGGGGTCCCTTCCATCCCGCAGACC  
 CACAGCCCGCAGCACTGGGAACAACCAGTCTACACACAGCTCACCAGACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR227031 representing NM\_011448  
 Red=Cloning site Green=Tags(s)

MNLLDPFMKMTDEQEKLSGAPSPTMSSEDSAGSPCPSGSGSDTENTRPQENTFPKGEPDLKKESEEDKFP  
 VCIREAVSQVLKGYDWTLPMPVVRVNGSSKNKPHVKRPMNAFMVWAQAARRKLDQYPHLHNAELSKTLG  
 KLWRLNESEKRPFVEEAERLRVQHKKDHPDYKYQPRRRKSVKNGQAEAEATEQTHISPNAIFKALQAD  
 SPHSSSGMSEVHSPGEHSGSQSGPPTPPTPKTDVQAGKVDLKREGRPLAEGGRQPPIDFRDVIDIGELSS  
 DVISNIETFDVNEFDQYLPPNGHPVPATHGQVYTYGSYISSTAPTPATAGHVWMSKQQAPPPPPQPP  
 QAPQAPQAPPQQAPPQQPAPQQQAHTLTLSSEPGQSQRTHIKTEQLSPSHYSEQQQHSPQQISYSP  
 FNLPHYSYPPITRSQYDYADHQNSGSYYSHAAGQSGLYSTFTYMNPAQRPMYTPIDTSGVPSIPQT  
 HSPQHWEQPVYTLTRP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_011448

**ORF Size:** 1521 bp

**OTI Disclaimer:** 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\\_011448.4](#), [NP\\_035578.3](#)

**RefSeq Size:** 4146 bp

**RefSeq ORF:** 1524 bp

**Locus ID:** 20682

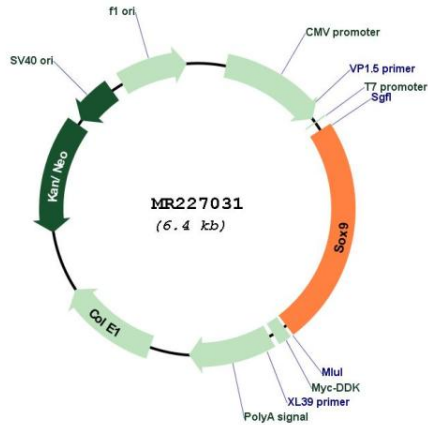
UniProt ID: [Q04887](#)

Cytogenetics: 11 77.27 cM

MW: 56.5 kDa

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 MR227031