

## Product datasheet for **MC221433**

### Sox5 (NM\_011444) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sox5 (NM_011444) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sox5
Synonyms:	A730017D01Rik; AI528773
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221433 representing NM\_011444  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTTACTGACCCTGATTTACCTCAGGAGTTTAAAAGGATGTCTTCCAAGCGACCAGCCTCTCCGTATG  
 GGGAGACAGATGGAGAGGTAGCCATGGTGACAAGCAGACAGAAAAGTGAAGAGGAGGAGAGTGAGAGGCT  
 CCCAGCCTTTACCTTCCCTTACATGTGAGTTTTCCCAACAAGCCTCACTCTGAGGAATTCAGCCAGTT  
 TCTCTGCTGACGCAAGAGACTTGTGGTCTAGGACCCCACTGTGCAGCACAACACAATGGAAGTCGATG  
 GCAATAAAGTTATGTCTTATTAGCTCCATACAACCTATCTACCTCACCTCAGAAGGCGGAAGAAGTGG  
 GCGACAGAGTGGCGAGTCCGTGTGAGCGCAGCCCTGGGACTCCCGAGCGGCGCAAGGGCAGCTTAGCG  
 GATGTGGTGGACACCCTGAAGCAGAGGAAGATGGAAGAGCTGATCAAGAATGAGCCAGAAGACACTCCCA  
 GTATTGAAAAGCTACTCTCCAAGGACTGAAAAGACAAGCTCCTGGCAATGGGATCAGGGAACCTTTGGAGA  
 AATAAAAGGGACTCCTGAGAGCCTCGTGAGAAGGAGCGCAGCTCATGGGTATGATCAATCAGCTGACC  
 AGTCTACGGGAGCAACTCCTGGCTGCCACGATGAGCAGAAGAAGTTGGCTGCATCTCAGATAGAGAAAAC  
 AGCGTCAGCAGATGGAGCTGGCCAAGCAGCAACAGGAGCAGATCGCGAGGCAACAGCAGCAGCTTCTGCA  
 GCAACAACACAAAATCAACTTGCTTTCAGCAACAGATCCAGGTTCAAGGTCAGCTGCCGCCATTGATGATT  
 CCCGTGTTCCCTCCTGACCAGCGGACCCTCGCAGCAGCTGCCAGCAAGGATTCTCCTTCTCCTGCTGTT  
 TCAGCTACAAGGCTGGGTGACGTGACCCCTACCCTGTTGAGCTGATCCCAACCCTATGGCAGCTGCTGC  
 TGCAGCAACACAGGCTTAGGCCACTCCAGCTGCAGCAGTTCTATGCTGCCAGCTAGCCGCAATGCAG  
 GTTTCTCCAGGAGGAAGCTCCTAGGCCACCCCAAGGCAACCTTGGTGTGCCGTGTCTCTACCAGCA  
 TTCACACAGACAAGAGCACAACAGTCCACCACCCAAAAGCAAGGATGAAGTGGCCAGCCACTGAACT  
 ATCAGCTAAGCCCAAGACCTCTGATGGCAAATCACCTGCATCACCCACCTCTCCTCACATGCCAGCTCTG  
 AGAATAAACAGTGGGGCTGGCCCCCTCAAAGCCTCTGTCCCGGCAGCATTAGCTAGTCTTCTGCAAGAG  
 TTAGCACAATAGGCTATTTAAATGACCACGATGTGTACCAAGGCAATCCAAGAAGCTCGCCAGATGAA  
 AGAGCAACTCAGGCGAGAGCAGCAAGCGTTGGACGGGAAGGTGGCCGTGGTGAACAGCATAGGTCTCAGC  
 AACTGCCGACAGAAAAGGAAAAACAACACTGGAGAGCCTGACTCAGCAGTTGGCAGTTAAACAGAATG  
 AAGAAGGGAAATTTAGCCATGGAATGATGGATTTCAATATGAGTGGAGATTCTGACGGAAGCGCTGGAGT  
 CTCAGAGTCAAGAATTTACAGGGAATCCAGGGGACGTGGTAGCAACGAGCCCCACATAAAGCGTCCAATG  
 AATGCCTTCATGGTGTGGGCGAAAGATGAACGGAGGAAAATCCTTCAGGCCTTTCCGACATGCACAATT  
 CCAACATCAGCAAGATACTGGGATCTCGCTGGAAAGCTATGACCAACCTAGAGAAAACAGCCATACTATGA  
 GGAGCAGGCCCGCCTCAGCAAACAGCACCTGGAGAAGTACCCGGACTACAAGTACAAGCCTAGGCCAAAAG  
 CGCACCTGTCTGGTGGACGGCAAGAAAATGCGTATCGGGGAGTACAAGGCCATCATGCGGAACCGGAGGC  
 AGGAAATGCGACAGTACTTCAACGTTGGGAACAAGCACAGATCCCCATCGCGACGGCCGGAGTTGTATA  
 CCCAGCGCCATCGCCATGGCAGGAATGCCGTCCCCTCACCTGCCCTCCGAGCACTCGAGCGTGTCCAGC  
 AGCCCGGAGCCCGGGATGCCGTGATCCAGAGCACTTACGGCGCCAAGGGAGAGGAGCCCCACATCAAGG  
 AAGAGATCCAGGCTGAGGACATCAACGGAGAGATTTACGAGGAGTACGATGAGGAGGAGGAGGCCCGGA  
 TGTGGATTATGGGAGTGACAGCGAAAACCACATTGCGGGACAAGCCAAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_011444  
**Insert Size:** 2292 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](mailto: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](#)

**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\\_011444.3](#), [NP\\_035574.2](#)

**RefSeq Size:** 7331 bp

**RefSeq ORF:** 2292 bp

**Locus ID:** 20678

**Cytogenetics:** 6 76.14 cM

**Gene Summary:** Binds specifically to the DNA sequence 5'-AACAAAT-3'. Activates transcription of COL2A1 and AGC1 in vitro.[UniProtKB/Swiss-Prot Function]  
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.