

## Product datasheet for **MC221633**

### Sox6 (NM\_001025559) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sox6 (NM_001025559) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sox6
Synonyms:	AI987981; SOX-LZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221633 representing NM\_001025559  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCTTCCAAGCAAGCCACCTCTCCATTTGCCTGTACAGCGGATGGAGAGGAAGCAATGACCCAGGACT  
 TGACCTCAAGGGAAAAGGAAGAGGGCAGTGATCAACACCCGGCCTCCCATCTGCCTCTGCACCCATAAT  
 GCACAACAAACCTCACTCTGAGGAGCTGCCTACACTTGTCACTACCATTCAACAAGATGCTGACTGGGAC  
 AGCGTTTGTCTCAGCAAAGAATGGAGTCAAGAAATAAAGTTATGTTCCCTATATTCCTCCGAA  
 ATACGTCTACCTCACCACATAAGCCTGACGAAGGGAGTCGGGAGCGTAAATAATGAACAGTGTTACTTT  
 TGGAACCCCGGAACGCCGAAAGGGAGCCTTGCCGATGTGGTGGATACGCTGAAGCAGAAGAAGCTGGAG  
 GAGATGACTCGGACAGAACAAGAGGATTCCTCCTGCATGGAAAACTACTTTCAAAGATTGGAAGGAAA  
 AAATGGAAGACTAAATACGAGTGAACCTCTGGAGAAAACAAAGGTACACCTGAGAGCCTTGACAGAA  
 AGAACGGCAACTCTCCACATGATTACCCAGCTGATCAGCTTGGGGAGCAGCTCCTGGCAGCCCATGAT  
 GAACAGAAAAAGCTGGCAGCATCGCAGATCGAGAAACAGCGGCAGCAAATGGACCTTGCTCGCAACAGC  
 AAGAACAGATCGCAAGACAACAGCAGCAACTTCTACAGCAGCAGACAAGATTAATCTCCTCGACAAACA  
 GATCCAGCAGGTTGAGGGCACATGCCTCCGCTCATGATCCCAATTTTTCCACATGACCAGCGGACCTTG  
 GCAGCAGCTGCTGCTGCCAACAGGGATTCTCTTCCCCCTGGAATAACATAACAAGCCAGGTGATAACT  
 ACCCCGTACAGTTCATCCGTCAACAATGGCAGCTGCTGCTGCTTCTGGACTCAGCCCTTACAGCTTCA  
 GCAGCTCTATGCCGCTCAGCTGGCCAGCATGCAGGTGTCACCTGGAGCAAAGATGCCATCAACTCCACAG  
 CCACCAAACCGGCAGGGCAGTCTCACCTACTGGGATAAAAAATGAAAAGAGAGGGACCAGCCCTGTAA  
 CTCAAGTTAAGGATGAAACAACAGCCAGCCGCTGAATCTCTCATCCCGCCTAAGACAGCAGAGCCCTGT  
 GAAGTCCCAACATCTCCACCCAGAACCTCTTCCAGCCAGCAAACACAGCCCTGTCAACCTGCCAAAC  
 AAAAGCAGCATCCCCAGCCCATTTGGAGGAAGCCTGGGGAGAGGATCCTCTAGATATACTATCCAGTC  
 TCAACTCTCCTGCCCTGTTGGGGACCAGGACACAGTGTAAAGCCATTGAGGAGGCTCGGAAGATGCG  
 AGAACAGATCCAGCGGGAGCAACAACAGCAGCCACACGGAGTTGATGGGAACTGTCTCCATGAACAAC  
 ATGGGGCTGAGCAACTGCAGGACTGAGAAGGAAAGAACACGCTTTGAGAACTGGGTCCCAATTAACAG  
 GAAAGTCAAGTGAAGATGGAAGTGGGAACTGGGCCGGGTGTCATCGATCTCACTCGCCAGAGGACGAGAAG  
 AAGCAAAGCAATGAATGGCTCTGCAGCTAACTACAGCAGTATTATTGTTGGCCAACAGGAGGCCCACT  
 GTGGCTGAAGCCGTGTCTACAGGGATGCCCGCGCCGTGCCAGCAGCAACCCACATCAAGCGACCAA  
 TGAATGCGTTTATGGTTTGGGCAAAGGACGAAAGGAGGAAAATTTTCCAGCCTTCCCTGACATGCATAA  
 CTCCAACATTAGCAAAATCTTAGGATCTCGCTGGAAATCCATGTCCAACAGGAGAAGCAACCTTACTAT  
 GAAGAACAGGCCCGGCTAAGCAAAATCCACCTAGAGAAGTACCAAACTACAAGTACAAACCCCGGCCGA  
 AGCGCACATGCATCGTGGATGGCAAGAAGCTCCGGATTGGGGAGTACAAGCAACTGATGCCTCGCGAAG  
 GCAGGAGATGCGACAGTTCTTCACTGTGGGCAACAGCCTCAGATGCCCATCACCACAGGAACAGGTGTT  
 GTGTATCCTGGTGTATTACTATGGCAACGACCACACCATCACCTCAGATGACATCTGACTGCTCTAGCA  
 CCTCTGCCAGCCCGAGCCAGCCTCCCTGTATCCAGAGCAGTATGGTATGAAGATGGACGGCGCAAG  
 CCTGGCTGGGAACGACATGATTAATGGAGAGGATGAAATGGAAGCCTATGACGACTACGAAGATGATCCC  
 AAATCAGACTATAGCAGCGAGAATGAGGCCAGAGCCTGTCAAGTCCAAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2757\\_f12.zip](https://cdn.origene.com/chromatograms/ja2757_f12.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001025559

**Insert Size:** 2364 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\\_001025559.3](#), [NP\\_001020730.1](#)

**RefSeq Size:** 8567 bp

**RefSeq ORF:** 2364 bp

**Locus ID:** 20679

**Cytogenetics:** 7 61.29 cM

**Gene Summary:** This gene encodes a member of a family of transcriptional regulators containing high mobility group (HMG) DNA-binding domains. Function of the encoded protein is important for proper cardiac and skeletal development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2013]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks an alternate in-frame exon, and uses an alternate in-frame splice site, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Both variants 2 and 5 encode the same isoform (2). 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.