

## Product datasheet for **SC326501**

### SOX6 (NM\_001145819) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SOX6 (NM_001145819) Human Untagged Clone
Tag:	Tag Free
Symbol:	SOX6
Synonyms:	HSSOX6; SOXD; TOLCAS
Vector:	<u>pCMV6 series</u>



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001145819, the custom clone sequence may differ by one or more nucleotides

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ATGAAAGGTGATGGTGAGCTTCAAGGACATGAAAGAAGAATGTCTTCCAAGCAAGCCACC
TCTCCATTTGCCTGTGCAGCTGATGGAGAGGATGCAATGACCCAGGATTTAACCTCAAGG
GAAAAGGAAGAGGGCAGTGATCAACATGTGGCCTCCCATCTGCCTCTGCACCCCAATG
CACAACAAACCTCACTCTGAGGAGCTACCAACACTTGTCTAGTACCATTCAACAAGATGCT
GACTGGGACAGCGTTTCTGTCATCTCAGCAAAGAATGGAATCAGAGAATAATAAGTTATGT
TCCCTATATTCCCTCCGAAATACCTCTACCTCACCACATAAGCCTGACGAAGGGAGTCGG
GACCGTGAGATAATGACCAAGTGTACTTTTGGAAACCCAGAGCGCCGCAAAGGGAGTCTT
GCCGATGTGGTGGACACACTGAAACAGAAAGAAGCTTGGAGAAATGACTCGGACTGAACAA
GAGGATTCCTCCTGCATGGAAAACTACTTTCAAAGATTGGAAGGAAAAATGGAAAGA
CTAAATACCAGTGAACCTTCTGGAGAAATTAAGGTACACCTGAGAGCCTGGCAGAAAAA
GAACGGCAGCTCTCCACCATGATTACCCAGCTGATCAGTTTACGGGAGCAGCTACTGGCA
GCGCATGATGAACAGAAAAAAGTGGCAGCGTCACAAATTGAGAAACAACGGCAGCAAATG
GACCTTGCTCGCCAACAGCAAGAACAGATTGCGAGACAACAGCAGCAACTTCTGCAACAG
CAGCACAAAAATTAATCTCCTGCAGCAACAGATCCAGGTTTACGGGTCACATGCCTCCGCTC
ATGATCCCAATTTTTCCACATGACCAGCGGACTCTGGCAGCAGCTGCTGTGCCAACAG
GGATTCCTCTTCCCCCTGGAATAACATACAAACCAGGTGATAACTACCCCGTACAGTTC
ATTCCATCAACAATGGCAGCTGTGCTGCTTCTGGACTCAGCCCTTACAGCTCCAGAAG
GGTCATGTCTCCACCCACAATAACCAAGGCTAAAGGGCCTAAGTGACCGTTTTGGC
AGGAATTTGGACACCTTTGAACATGGTGGTGGCCACTTTACAACCACAAACAGATTGAG
CAGCTCTATGCCGCTCAGCTGGCCAGCATGCAGGTGTACCTGGAGCAAAGATGCCATCA
ACTCCACAGCCACCAACACAGCAGGGACGGTCTCACCTACTGGGATAAAAAATGAAAAG
AGAGGGACAGCCCTGTAACCTCAAGTTAAGGATGAAGCAGCAGCACAGCCTCTGAATCTC
TCATCCCGACCCAAGACAGCAGAGCCTGTAAAGTCCCAACGTCTCCACCCAGAACCTC
TTCCAGCCAGCAAAAACAGCCCTGTCAATCTGCCAAAACAAAAGCAGCATCCCTAGCCCC
ATTGGAGGAAGCCTGGGAAGAGGATCCTCTTTAGATATCCTATCTAGTCTCAACTCCCCT
GCCCTTTTTGGGGATCAGGATACAGTGATGAAAGCCATTACAGGAGCGCGGAAGATGCGA
GAGCAGATCCAGCGGGAGCAACAGCAGCAACAGCCACATGGTGTGACGGGAAACTGTCC
TCCATAAATAATATGGGGCTGAACAGCTGCAGGAATGAAAAGGAAAGAACGCGCTTTGAG
AATTTGGGGCCCCAGTTAACGGGAAAGTCAATGAAGATGAAAACCTGGGCCAGGTGTC
ATCGACCTTACTCGGCCAGAAGATGCAGAGGGAAGTAAAGCAATGAATGGCTCTGCAGCT
AAACTACAGCAGTATTATTGTTGGCCAACAGGAGGTGCCACTGTGGCTGAAGCACGAGTC
TACAGGGACGCCCCGCGGCGTGCCAGCAGCGAGCCACACATTAAGCGACCAATGAATGCA
TTCATGGTTTTGGGCAAAGGATGAGAGGAGAAAAATCCTTCAGGCCTTCCCCGACATGCAT
AACTCCAACATTAGCAAAATCTTAGGATCTCGTGGAAATCAATGTCCAACCAGGAGAAG
CAACCTTATTATGAAGAGCAGGCCCGGCTAAGCAAGATCCACTTAGAGAAGTACCCAAAC
TATAAATACAAACCCCGACCGAAACGCACCTGCATTGTTGATGGCAAAAAGCTTCGGATT
GGGGAGTATAAGCAACTGATGAGGTCTCGGAGACAGGAGATGAGGCAGTCTTTACTGTG
GGGCAACAGCCTCAGATTCCAATCACCACAGGAACAGGTGTTGTGTATCCTGGTGTATC
ACTATGGCAACTACCACACCATCGCCTCAGATGACATCTGACTGCTCTAGCACCTCGGCC
AGCCCGGAGCCCAGCCTCCCGTTCATCCAGAGCACTTATGGTATGAAGACAGATGGCGGA
AGCCTAGCTGAAATGAAATGATCAATGGAGAGGATGAAATGAAATGTATGATGACTAT
GAAGATGACCCCAATCAGACTATAGCAGTAAAAATGAAGCCCCGAGGCTGTCAGTGCC
AAC
    
```

**Restriction Sites:** Please inquire  
**ACCN:** NM\_001145819

**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](#)

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001145819.1](#), [NP\\_001139291.1](#)

**RefSeq Size:** 8919 bp

**RefSeq ORF:** 2526 bp

**Locus ID:** 55553

**UniProt ID:** [P35712](#)

**Cytogenetics:** 11p15.2

**Protein Families:** Transcription Factors

**Gene Summary:**

This gene encodes a member of the D subfamily of sex determining region y-related transcription factors that are characterized by a conserved DNA-binding domain termed the high mobility group box and by their ability to bind the minor groove of DNA. The encoded protein is a transcriptional activator that is required for normal development of the central nervous system, chondrogenesis and maintenance of cardiac and skeletal muscle cells. The encoded protein interacts with other family members to cooperatively activate gene expression. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Mar 2009]

Transcript Variant: This variant (4) differs in the 5' UTR and coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (a) has a distinct N-terminus and is longer than isoform b. Variants 4 and 6 both encode the same isoform (a). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.