

Product datasheet for **SC304470**

SOX6 (NM_017508) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOX6 (NM_017508) Human Untagged Clone
Tag:	Tag Free
Symbol:	SOX6
Synonyms:	HSSOX6; SOXD; TOLCAS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_017508, the custom clone sequence may differ by one or more nucleotides

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ATGGGAAGAATGTCTTCCAAGCAAGCCACCTCTCCATTTGCCTGTGCAGCTGATGGAGAGGATGCAATGA
CCCAGGATTTAACCTCAAGGGAAAAGGAAGAGGGCAGTGATCAACATGTGGCCTCCCATCTGCCTCTGCA
CCCCATAATGCACAACAAACCTCACTCTGAGGAGCTACCAACACTTGTGAGTACCATTCAACAAGATGCT
GACTGGGACAGCGTTCTGTCATCTCAGCAAAGAATGGAATCAGAGAATAATAAGTTATGTTCCCTATATT
CCTTCCGAAATACCTCTACCTCACCACATAAGCCTGACGAAGGGAGTCGGGACCCTGAGATAATGACCAG
TGTTACTTTTGGAAACCCAGAGCGCCGAAAGGGAGTCTTGCCGATGTGGTGGACACACTGAAACAGAAG
AAGCTTGAGGAAATGACTCGGACTGAACAAGAGGATTCTCCTGCATGGAAAACTACTTTCAAAGATT
GGAAGGAAAAATGAAAGACTAAATACCAGTGAACCTTCTGGAGAAATTAAGGTACACCTGAGAGCCT
GGCAGAAAAAGAACGGCAGCTCTCCACCATGATTACCCAGCTGATCAGTTTACGGGAGCAGCTACTGGCA
GCGCATGATGAACAGAAAAAAGTGGCAGCGTCACAAATTGAGAAACAACGGCAGCAAATGGACCTTGCTC
GCCAACAGCAAGAACAGATTGCGAGACAACAGCAGCAACTTCTGCAACAGCAGCAGCAAAAATTAATCTCT
GCAGCAACAGATCCAGGTTCAAGGTCACATGCCTCCGCTCATGATCCCAATTTTTCCACATGACCAGCGG
ACTCTGGCAGCAGCTGCTGCTGCCAACAGGGATTCTCTTCCCCCTGGAAATACATACAACCAGGTG
ATAACTACCCCGTACAGTTTATTCCATCAACAATGGCAGCTGCTGCTGCTTCTGGACTCAGCCCTTTACA
GCTCCAGCAGCTCTATGCCGCTCAGCTGGCCAGCATGCAGGTGTACCTGGAGCAAAGATGCCATCAACT
CCACAGCCACCAAACACAGCAGGACGGTCTCACCTACTGGGATAAAAAATGAAAAGAGAGGGACCAGCC
CTGTAACCAAGTTAAGGATGAAGCAGCAGCACAGCCTCTGAATCTCTATCCCGACCAAGACAGCAGA
GCCTGTAAGTCCCAACGTCTCCACCCAGAACCTTCTCCAGCCAGCAAACCAGCCCTGTCAATCTG
CCAAACAAAAGCAGCATCCCTAGCCCCATTGGAGGAAGCCTGGGAAGAGGATCCTTTTAGTAAATGGA
AAAGTCAACACCAGGAAGAGACTTACGAATTAGATATCCTATCTAGTCTCAACTCCCCTGCCCTTTTTGG
GGATCAGGATACAGTGATGAAAGCCATTAGGAGGCGCGAAGATGCGAGAGCAGATCCAGCGGGAGCAA
CAGCAGCAACAGCCACATGGTGTGACGGGAAACTGTCCTCCATAAATAATATGGGGCTGAACAGCTGCA
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AAAAGTGGGCCAGGTGTCATCGACCTTACTCGGCCAGAAGATGCAGAGGGAAAGTAAAGCAATGAATGGC
TCTGCAGCTAAACTACAGCAGTATTATTGTTGGCCAACAGGAGGTGCCACTGTGGCTGAAGCAGGAGTCT
ACAGGGACGCCCCGCGCCGTGCCAGCAGCGAGCCACACATTAAGCGACCAATGAATGCATTATGTTTGG
GGCAAAGGATGAGAGGAGAAAAATCCTTCAAGCCCTTCCCCGACATGCATAACTCCAACATTAGCAAATC
TTAGGATCTCGCTGGAAATCAATGTCCAACCAGGAGAAGCAACCTTATTATGAAGAGCAGGCCCGGCTAA
GCAAGATCCACTTAGAGAAGTACCCAAACTATAAATACAACCCCGACCGAAACGCACCTGCATTGTTGA
TGGCAAAAAGCTTCGGATTGGGGAGTATAAGCAACTGATGAGGTCTCGGAGACAGGAGATGAGGCAGTTC
TTTACTGTGGGCAACAGCCTCAGATCCAATCACCACAGGAACAGGTGTTGTGTATCCTGGTGCTATCA
CTATGGCAACTACCACACCATCGCCTCAGATGACATCTGACTGCTCTAGCACCTCGGCCAGCCCGGAGCC
CAGCCTCCCGTCCATCCAGAGCACTTATGGTATGAAGACAGATGGCGGAAGCCTAGCTGGAATGAAATG
ATCAATGGAGAGGATGAAATGAAATGTATGACTACTGAAGATGACCCCAATCAGACTATAGCAGTG
AAAATGAAGCCCCGGAGGCTGTCTAGTCCCAACTGA
    
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Restriction Sites: Please inquire

ACCN: NM_017508

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 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_017508.1](#), [NP_059978.1](#)

RefSeq Size: 5158 bp

RefSeq ORF: 2415 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 (1) encodes isoform b. Variants 1 and 3 both encode the same isoform (b). 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. CCDS Note: The coding region has been updated to start at a downstream in-frame start codon that is supported by conservation data.