

Product datasheet for **SC101470**

SOX6 (NM_033326) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOX6 (NM_033326) Human Untagged Clone
Tag:	Tag Free
Symbol:	SOX6
Synonyms:	HSSOX6; SOXD; TOLCAS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_033326, the custom clone sequence may differ by one or more nucleotides

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ATGTCCTTCCAAGCAAGCCACCTCTCCATTTGCCTGTGCAGCTGATGGAGAGGATGCAATGACCCAGGATT
TAACCTCAAGGGAAAAGGAAGAGGGCAGTGATCAACATGTGCCCTCCCATCTGCCTCTGCACCCATAAT
GCACAACAAACCTCACTCTGAGGAGCTACCAACACTTGTCACTACCATTCAACAAGATGCTGACTGGGAC
AGCGTTCTGTCATCTCAGCAAAGAAATGGAATCAGAGAATAATAAGTTATGTTCCCTATATTCCTCCGAA
ATACCTCTACCTCACCACATAAGCCTGACGAAGGGAGTCGGGACCGTGAGATAATGACCAGTGTTACTTT
TGGAAACCCAGAGCGCCGCAAAGGGAGTCTTGCCGATGTGGTGGACACTGAAACAGAAGAAGCTTGAG
GAAATGACTCGGACTGAACAAGAGGATTCTCCTGCATGGAAAACTACTTTCAAAGATTGGAAGGAAA
AAATGGAAAGACTAAATACCACTGAACCTCTTGAGAAATTAAGGTACACTGAGAGCCTGGCAGAAAA
AGAACGGCAGCTCTCCACATGATTACCCAGTGATCAGTTTACGGGAGCAGCTACTGGCAGCGCATGAT
GAACAGAAAAAACTGGCAGCGTCACAAAATTGAGAAACAACGGCAGCAAATGGACCTTGCTCGCCAACAGC
AAGAACAGATTGGGAGACAACAGCAGCAACTTCTGCAACAGCAGCACAAAATTAATCTCCTGAGCAACA
GATCCAGGTTTCCAGGTCACATGCCTCCGCTCATGATCCCAATTTTTCCACATGACCAGCGGACTCTGGCA
GCAGCTGCTGCTGCCAACAGGGATTCTCTTCCCCCTGGAATAACATACAAACCAGGTGATAACTACC
CCGTACAGTTTATTCCATCAACAATGGCAGCTGCTGCTGCTTCTGGACTCAGCCCTTTACAGCTCCAGAA
GGGTATGTCTCCACCCACAAAATTAACCAAAGGCTAAAGGGCCTAAGTGACCGTTTTGGCAGGAATTTG
GACACCTTTGAACATGGTGGTGGCCACTTTACAACCAACAAACAGATTGAGCAGCTCTATGCCGCTCAGC
TGGCCAGCATGCAGGTGTCACTGGAGCAAAGATGCCATCAACTCCACAGCCACCAACACAGCAGGGAC
GGTCTCACCTACTGGGATAAAAAATGAAAAGAGAGGGACCAGCCCTGTAAGTCAAGTTAAGGATGAAGCA
GCAGCACAGCCTCTGAATCTCTCATCCCGACCCAAGACAGCAGAGCCTGTAAGTCCCCAACGTCTCCCA
CCCAGAACCTCTTCCAGCCAGCAAACCCAGCCCTGTCAATCTGCCAAACAAAAGCAGCATCCCTAGCCC
CATTGGAGGAAGCCTGGGAAGAGGATCCTCTTTAGATATCCTATCTAGTCTCAACTCCCCTGCCCTTTT
GGGGATCAGGATACAGTGATGAAAGCCATTGAGGAGGCGCGGAAGATGCGAGAGCAGATCCAGCGGGAGC
AACAGCAGCAACAGCCACATGGTGTGACGGGAACTGTCCTCCATAAATAATATGGGGCTGAACAGCTG
CAGGAATGAAAAGGAAAGAACCGCTTTGAGAATTTGGGGCCCCAGTTAACGGGAAAGTCAAATGAAGAT
GGAAAACCTGGGCCAGGTGTATCGACCTTACTCGGCCAGAAGATGCAGAGGGAGGTGCCACTGTGGCTG
AAGCACGAGTCTACAGGGACGCCCGGCCGTGCCAGCAGCGAGCCACACATTAAGCGACCAATGAATGC
ATTCATGGTTTGGCAAAGGATGAGAGGAGAAAAATCCTTCAGGCCTTCCCCGACATGCATAACTCCAAC
ATTAGCAAAATCTTAGGATCTCGCTGGAATCAATGTCCAACCAGGAGAAGCAACCTTATTATGAAGAGC
AGGCCCGGCTAAGCAAGATCCACTTAGAGAAGTACCCAACTATAAATACAAACCCCGACCGAAAACGCAC
CTGCATTGTTGATGGCAAAAAGCTTCGGATTGGGGAGTATAAGCAACTGATGAGGTCTCGGAGACAGGAG
ATGAGGCAGTTCTTTACTGTGGGCAACAGCCTCAGATTCCAATCACCACAGGAACAGGTGTTGTGTATC
CTGGTGTATCACTATGGCAACTACCACACCATCGCCTCAGATGACATCTGACTGCTCTAGCACCTCGGC
CAGCCCCGAGCCAGCCTCCCGGTATCCAGAGCACTTATGGTATGAAGACAGATGGCGGAAGCCTAGCT
GGAATGAAATGATCAATGGAGAGGATGAAATGGAATGTATGACTATGAAGATGACCCCAAATCAG
ACTATAGCAGTAAAAATGAAGCCCCGAGGCTGTCAGTGCCAATGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_033326 unedited ACTATAGGGCGGCCGCGAATTCGCACGAGGGGAAAGAGAGAACTAGTCTCGAGTTTTTTTT TTTTTTTTTTTTTTTATTGAATCTTTCCCTTTTTCTTTAATGCCATTTACTCCTGCGGCG CAGCGCACAAAGGAGCCCTCCCGCGCGTACCATCCTGGAGCCCGCCAGGTCACATTTT GAATCAAAGGCAATTTACCAGTGATTTCTGGGTGCTGGGGCTGATATTTTTGTGCATA TTTAAGAATGTCTCCAAGCAAGCCACCTCTCCATTTGCCTGTGCAGCTGATGGAGAGGA TGCAATGACCCAGGATTTAACCTCAAGGAAAAGGAAGGGCAGTGATCAACATGTGGC CTCCCATCTGCCTCTGCACCCATAATGCACAACAAACCTCACTCTGAGGAGCTACCAAC ACTTGTCAGTACCATTCAACAAGATGCTGACTGGGACAGCGTTTCTGTCATCTCAGCAAAG AATGGAATCAGAGAATAATAAGTTATGTTCCCTATATTCTTCCGAAATACCTCTACCTC ACCACATAAGCCTGACGAAGGGAGTCGGGACCGTGAGATAATGACCAGTGTACTTTTGG AACCCAGAGCGCCGAAAGGGAGTCTTGCCGATGTGGTGGACACACTGAAACAGAAGAA GCTTGAGGAAATGACTCGGACTGAACAAGAGGATTCCTCTGCATGGAAAACTACTTTC AAAAGATTGGGAGGGAAAAAATGAAAAGACTAAATACCAGTGAATTCTTGGAGAATTA AGGTACACCTGANAGCCTGGCAAAAAAGACGGCAGCTCTCCACCATGATTACCCAGCTG ATCAGTTTACGGGAGCAGCTACTGGGCAGCGCATGATGAACAGAAN
Restriction Sites:	NotI-NotI
ACCN:	NM_033326
Insert Size:	5200 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	A TrueClone.
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:	<ol style="list-style-type: none"> 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_033326.2 , NP_201583.2
RefSeq Size:	5048 bp
RefSeq ORF:	2427 bp
Locus ID:	55553
UniProt ID:	P35712
Cytogenetics:	11p15.2
Domains:	HMG
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 (2) differs in the 5' UTR and coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (c) has a distinct N-terminus and is longer than isoform b. 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.