

Product datasheet for **SC127824**

SOX5 (NM_006940) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOX5 (NM_006940) Human Untagged Clone
Tag:	Tag Free
Symbol:	SOX5
Synonyms:	L-SOX5; L-SOX5B; L-SOX5F; LAMSHF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127824 sequence for NM_006940 edited (data generated by NextGen Sequencing)

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ATGCTTACTGACCCTGATTTACCTCAGGAGTTTCAAAGGATGTCTTCCAAGCGACCAGCC
TCTCCGTATGGGAAGCAGATGGAGAGGTAGCCATGGTGACAAGCAGACAGAAAGTGAA
GAAGAGGAGAGTGACGGGCTCCCAGCCTTTCACCTTCCCTTGCATGTGAGTTTTCCCAAC
AAGCCTCACTCTGAGGAATTTACGCCAGTTTCTCTGCTGACGCAAGAGACTTGTGGCCAT
AGGACTCCCCTTCTCAGCACAATACAATGGAAGTTGATGGCAATAAAGTTATGTCTTCA
TTTGCCCCACACAACCTCATCTACCTCACCTCAGAAGGCAGAAGAAGGTGGGCGACAGAGT
GGCGAGTCTTGTCTAGTACAGCCTGGGAACTCCTGAACGGCGCAAGGGCAGTTTAGCT
GATGTTGTTGACACCTTGAAGCAGAGGAAAATGGAAGAGCTCATCAAAAACGAGCCGAA
GAAACCCCAAGTATTGAAAACTACTCTCAAAGGACTGGAAAGACAAGCTTCTTGCAATG
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CAACTCATGGGTATGATCAACCAGCTGACCAGCCTCCGAGAGCAGCTGTTGGCTGCCAC
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CCCGTATTCCTCCTGATCAACGGACACTGGCTGCAGCTGCCAGCAAGGATTCCTCCTC
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Clone variation with respect to NM_006940.4

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006940 unedited
 GCGGATTCGGCACGAGGAGAGAGAAAAATAATTGGTTTAGAAGGTTTGGACTCACTTGA
 CAGGTTCAAGTTGGAGACGATCATAGGTGGCTGCTGTGACAAAGGGAAATTGTGCTTTTCC
 AGCATGCTTACTGACCCTGATTTACCTCAGGAGTTTAAAAGGATGCTTCCAAGCGACCA
 GCCTCTCCGTATGGGGAAGCAGATGGAGAGGTAGCCATGGTGACAAGCAGACAGAAAGTG
 GAAGAAGAGGAGAGTGACGGGCTCCAGCCTTTACCTTCCCTTGCATGTGAGTTTTCCC
 AACAGCCTCACTCTGAGGAATTTACGCCAGTTTCTCTGCTGACGCAAGAGACTTGTGGC
 CATAGGACTCCCCTTCTCAGCACAATAACAATGGAAGTTGATGGCAATAAAGTTATGTCT
 TCATTTGCCCCACACAATCATCTACCTCACCTCAGAAGGCAGAAGAAGTGGGCGACAG
 AGTGGCGAGTCTTGTCTAGTACAGCCCTGGGAACTCCTGAACGGCGCAAGGGCAGTTTA
 GCTGATGTTGTTGACACCTTGAAGCAGAGGAAAATGGAAGAGCTCATAAAAACGAGCCG
 GAAGAAACCCCAAGTATTGAAAACTACTCTCANAGGACTGGAAAGACAAGCTTCTTGCN
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 GGGCACTCATGGGTATGATCAACCAGCTGACCCACCTTCGAAAGCAGCTGTTGGTGCCC
 ACGATGAGCAGAANGAAGTAGCTGCCTCTCAGATGAGAAACAGCGTCAGCAAATGGAAGT
 GCCCAAGCAGCAACAAGAACAATTTGGCAGACAGCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006940 unedited
 GGGGGGAATTTTGGTGGNTAACNCCAATTCNCGTGTTNNNTNGAATCCATTTACCAAAA
 TTATAAATCTCTCAAGCCAAAAAGCAATGTAGTAACACAGTAAGTTGCTATTCATAGCAC
 CTTTTATCAAGTGACTTCAAAGCACTTTCAACATTAATAACTATTTTTGCTTTTGT
 TCTTTTGGGAAAAGTAGGGCAAAGAAAACCGATGNCTAAGTAANAACCGTCAGAACAAAG
 AGAACAGAATGCAGCGGTATGAACTTGCTTTTTGATTTCGGTTCATGCACAGTTTAGTGTT
 GGACATAAACCTAACTAAATCAAATTTGAATTTACAGCAGTTAAAAGTACCATTAACA
 ATTTTGTTTTCCCTTCAAATAAAAACAAAATAAACAACAAAAAGACCAACACCAAAAGT
 GTTGTCAATTCATCGGGAAGTGTGTTAGAATTGATTTACGCCATGAATGCCTTGAATGGC
 ATCTACCTGGAGCTAAAACAAAGTATTCTTGTAGCCCAACCCATGAAACGAAAACAAAG
 CATCCGTAATAACCCGGGGTGCCACTAAAGTGTCCGCAAAAGGGGGAGGGGAACCCCTC
 AAACCCGGAGGGAGCGGGGGTAAGCGCGAGCACCCATTCCCGGCAATCGCGTGGCACC
 GCACACAAAAGGATTACAAAAGGACTGGCCGGAGCGAGCCCGCTCCCGGGGGCCTAG
 CCACCGAAAGTAGGAACCCGCAACCACATGCGGCCCGACAGGTCCCCCACAAGCCCGGG
 ANTAACCAGACCGAGGGGCGTACACCGTCCGCCAGCATGGTAACCGAAAGGTACCAT
 CAATGTGACCCCGAGCGCGCCCGCCCCCTCCG

Restriction Sites:

NotI-NotI

ACCN:

NM_006940

Insert Size:

4700 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).

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_006940.4](#), [NP_008871.3](#)

RefSeq Size: 4333 bp

RefSeq ORF: 2292 bp

Locus ID: 6660

UniProt ID: [P35711](#)

Cytogenetics: 12p12.1

Domains: HMG

Protein Families: Transcription Factors

Gene Summary: This gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional regulator after forming a protein complex with other proteins. The encoded protein may play a role in chondrogenesis. A pseudogene of this gene is located on chromosome 8. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) encodes the longest isoform (a, also called L-SOX5A).
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.