

Product datasheet for **SC125839**

SOX22 (SOX12) (NM_006943) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOX22 (SOX12) (NM_006943) Human Untagged Clone
Tag:	Tag Free
Symbol:	SOX22
Synonyms:	SOX22
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125839 sequence for NM_006943 edited (data generated by NextGen Sequencing)

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ATGGTGCAGCAGCGGGGCGGAGGGCCAAGCGGGACGGCGGGCCGCCGCCCGGGACCCGGGCCGCGG  
AGGAGGGGGCGCGAGCCCGGCTGGTGAAGACCCCGAGCGGCCACATCAAGAGCCGATGAACGCATT  
CATGGTGTGGTCGCAGCACGAACGGCGGAAGATCATGGACCAGTGGCCCGACATGCACAACGCCGAGATC  
TCCAAGCGCCTGGGCCCGCTGGCAGCTGCTGCAGGACTCGGAGAAGATCCCGTTCGTGCGGGAGGCGG  
AGCGGCTGCGGCTCAAGCACATGGCGGATTACCCGGACTACAAGTACCGGCCGCAAAAAGAGCAAGGG  
GGCGCCCGCAAGGCGCGGCCCGCCCGGGTGGTAGCGGTGGCGGCAGCCGGCTCAAGCCCGGGCCG  
CAGCTGCCTGGCCGCGGGGCGCCGAGCAGCGGGAGGGCCTTTGGGGGGCGGGGCGCGCGCCCGAGG  
ACGACGATGAAGACGACGACGAGGAGCTGCTGGAAGTGCCTGGTGCAGACCCCGGGGCGGAGCTGTG  
GAGGATGGTCCCGGCGGACGGGCGCTCGGGGACAAGCGGAGCGCGCCAAGGGCCGTCGGGCGAGGGG  
GCGGCCGCGCCCGCCCGCCTCCCGACACCGTCGGAGGACGAGGAGCCGGAGGAAGAGGAGGAGGAGG  
CGGCAGCGGCTGAGGAAGGTGAAGAGGAGACGGTGGCGTCGGGGGAGGAGTCGCTGGGCTTTCTGTCCAG  
GCTGCCCCCTGGCCCGCGGCTGGACTGCAGCGCCCTGGATCGCGACCCGGACCTGCAGCCTCCCTCG  
GGCACGTCGACTTCGAGTTCCTGGACTACTGCACCCCGAGGTTACCGAGATGATCGCGGGGGACTGGC  
GCCCGTCTAGCATCGCAGACCTGGTTTTACCTACTGA
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Clone variation with respect to NM_006943.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006943 unedited GGGGCGTCACATTTTGTATACGACTCATATAGGGCGGCCGCAATTCGCACGAGGCGGGC GGGGAGCGGCGCGCGGGCCGCGGGAGCCAGAGGCTGAGGAAGAGCCCGGGGGC CCGGAGGGTGCGATTCTCGGCCCGCAAAACAATGTGTGTTGTGAGCCAGGACGCAAC TTGCCGGAGGCGGGGGCGCGCCGAGCCCGCTGAGACCGCGCTGACCTCTCCCCCA CCCCAGCCGCGGAGGATGCGGACGGCCCCGGCGGCTAGCGGCCCGGGCCAGGC CGGATGGTGCAGCAGCGGGGCGGAGGGCCAAGCGGGACGGCGGGCCCGCCCGGGGA CCCGGGCCGCGGAGGAGGGGGCGCGAGCCCGGCTGGTGCAAGACCCGAGCGGCCAC ATCAAGAGGCCGATGAACGCATTATGTTGTTGTCGACGACGAACGGCGGAAGATCATG GACCAAGTGGCCGACATGCACAACGCCGAGATCTCCAAGCGCTGGGCCCGCGCTGGCAG CTGCTGCAGGACTCGGAGAAGATCCCGTTCGTGCGGGAGGCGGAGCGGCTGCGGCTAAG CACATGGCGGATTACCCGGACTACAAGTACCGGCCGCGCANAAAGACAAGGGGGCGCCG CCAAGGCGCGGCCCGCCCGCGTGGTAGCGGTGGCGGCAGCCGGCTCAAGCCCGGGC CGCAACTGCTGGCCGCGGGGCCCGGACACGGGAGGCCTTTGGGGGGCGGTGCGGCGG CCCCTGTGGCCACGATTAACGACAATAGGAACTGCTGAAATGCCCTGGTCAAACCCCG GGCCGGGACTGTGAAGAATGTCCAGCCAAACCC
Restriction Sites:	Please inquire
ACCN:	NM_006943
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
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_006943.2 , NP_008874.2
RefSeq Size:	4658 bp
RefSeq ORF:	948 bp
Locus ID:	6666

UniProt ID: [O15370](#)

Cytogenetics: 20p13

Protein Families: ES Cell Differentiation/IPS, Transcription Factors

Gene Summary: Members of the SOX family of transcription factors are characterized by the presence of a DNA-binding high mobility group (HMG) domain, homologous to the HMG box of sex-determining region Y (SRY). Forming a subgroup of the HMG domain superfamily, SOX proteins have been implicated in cell fate decisions in a diverse range of developmental processes. SOX transcription factors have diverse tissue-specific expression patterns during early development and have been proposed to act as target-specific transcription factors and/or as chromatin structure regulatory elements. The protein encoded by this gene was identified as a SOX family member based on conserved domains, and its expression in various tissues suggests a role in both differentiation and maintenance of several cell types. [provided by RefSeq, Jan 2013]