

Product datasheet for **SC303274**

SOX2 (NM_003106) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SOX2 (NM_003106) Human Untagged Clone
Tag: Tag Free
Symbol: SOX2
Synonyms: ANOP3; MCOPS3
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003106 edited
 CCCGGCCCCCAAGTCCCGGGCCGAGGGTCGGCGGCCGGCCGGGGCCGGGCC
 GCGCACAGCGCCGCATGTACAACATGATGGAGACGGAGCTGAAGCCCGGGCCCGCAG
 CAAACTTCGGGGGGCGGGCGGCAACTCCACCGCGCGCGCCGGCGCAACCAGAAA
 AACAGCCCGGACCGCTCAAGCGGCCATGAATGCCTTCATGGTGTGGTCCCGCGGGCAG
 CGGCGCAAGATGGCCAGGAGAACCCCAAGATGCACAACCTCGGAGATCAGCAAGCGCCTG
 GGCGCGAGTGGAACTTTTGTGGAGACGGAGAAGCGGCCGTTTCATCGACGAGGCTAAG
 CGGCTGCGAGCGCTGCACATGAAGGAGCACCCGGATTATAAATACCGGCCCGGGGAAA
 ACCAAGACGCTCATGAAGAAGGATAAGTACACGCTGCCCGGGGGCTGCTGGCCCCGGC
 GGCAATAGCATGGCGAGCGGGTGGGGTGGGCGCCGGCCTGGGCGGGGCGTGAACCAG
 CGCATGGACAGTTACGCGCACATGAACGGCTGGAGCAACGGCAGCTACAGCATGATGCAG
 GACCAGCTGGGCTACCCGAGCACCCGGCCTCAATGCGCACGGCGCAGCGCAGATGCAG
 CCCATGCACCGCTACGACGTGAGCGCCCTGCAGTACAACCTCCATGACCAGCTCGCAGACC
 TACATGAACGGCTCGCCACCTACAGCATGTCCTACTCGCAGCAGGGCACCCCTGGCATG
 GCTCTTGGCTCCATGGGTTCCGTGGTCAAGTCCGAGGCCAGCTCCAGCCCCCTGTGGTT
 ACCTCTTCTCCCACTCCAGGGCGCCCTGCCAGGCCGGGGACCTCCGGGACATGATCAGC
 ATGTATCTCCCCGGCGCCGAGGTGCCGGAACCCGCCCGCCCGCAGCACTTCACATGTCC
 CAGCACTACCAGAGCGGCCCGGTGCCCGGCACGGCCATTAACGGCACACTGCCCTCTCA
 CACATGTGAGGGCCGACAGCGAACTGGAGGGGGGAGAAATTTTCAAAGAAAAACGAGGG
 AAATGGGAGGGGTGCAAAAGAGGAGAGTAAAGAAACAGCATGGAGAAAACCCGGTACGCTC
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003106 unedited NGAACGGTCAAAATTGTATACAACTCACTATAGGCGGCCGCGNAATTCGCACGAGGCCCG GGCCCCCAAGTCCCAGCCGGGCGGAGGGTCGGCGGCCGCGCGGGCCGGGCCCGCGCA CAGCGCCCGCATGTACAACATGATGGAGACGGAGCTGAAGCCGCCGGGCCCGCAGCAAAC TTCGGGGGGCGGGCGGCAACTCCACCAGCGCGGCCGGCGGCAACCAGAAAAACAG CCCGACCGCGTCAAGCGGCCCATGAATGCCTTCATGGTGTGGTCCCAGCGGCAGCGGCG CAAGATGGCCAGGAGAACCCCAAGATGCACAACCTCGGAGATCAGCAAGCGCTGGGCGC CGAGTGGAAACTTTTGTGGAGACGGAGAAGCGCCGTTTCATCGACGAGGCTAAGCGGCT GCGAGCGCTGCACATGAAGGAGCACCCGATTATAAATACCGGCCCGGGGAAAAACAA GACGCTCATGAAGAAGGATAAGTACACGCTGCCCGCGGGCTGCTGGCCCCGGCGGCAA TAGCATGGCGAGCGGGTCCGGGGTGGGCGCCGGCCTGGGCGGGCGTGAACCAGCGCAT GGACAGTTACGCGCACATGAACGGCTGGAGCAACGGCAGCTACAGCATGATGCANGACCA GCTGGGCTACCCGACGACCCGGCCCTCAATGCGCACGGCGCAGCGCAGATGCAGCCAT GCACCGCTACGACGTGAGCGCCCTGCAGTACAACCTCCATGACCAGCTCGCAGACCTACAT GAACGGCTCGCCACCTACAGCATGTTCTACTCGCAGCAGGGCACCCCTGGCATGGCTCT TGGCTCCTGGGTTTCGTGGTCAAGTCCGAGCCAACCTCCAGCCCCCTGGGTTACCTCTC CTA</p>
Restriction Sites:	Please inquire
ACCN:	NM_003106
Insert Size:	1200 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<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:	<u>NM_003106.2, NP_003097.1</u>
RefSeq Size:	2518 bp
RefSeq ORF:	954 bp
Locus ID:	6657
UniProt ID:	<u>P48431</u>
Cytogenetics:	3q26.33
Protein Families:	Adult stem cells, Cancer stem cells, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors
Gene Summary:	This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. Mutations in this gene have been associated with optic nerve hypoplasia and with syndromic microphthalmia, a severe form of structural eye malformation. This gene lies within an intron of another gene called SOX2 overlapping transcript (SOX2OT). [provided by RefSeq, Jul 2008]