

## Product datasheet for MC207403

### Sox2 (NM\_011443) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sox2 (NM_011443) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sox2
Synonyms:	lc; lcc; Sox; Sox-2; ys; ysb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207403 representing NM_011443 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGTATAACATGATGGAGACGGAGCTGAAGCCGCCGGGCCGAGCAAGCTTCGGGGGGCGGCGCGGAG  
GAGGCAACGCCACGGCGGCGGACCGGCGGCAACCAGAAGAACAGCCCGGACCGCTCAAGAGGCCCAT  
GAACGCCTTCATGGTATGGTCCCGGGGCGAGCGGCTAAGATGGCCAGGAGAACCCTCAAGATGCACAAC  
TCGGAGATCAGCAAGCGCTGGGCGGGAGTGGAACCTTTGTCCGAGACCGAGAAGCGGCCGTTTCATCG  
ACGAGGCCAAGCGGCTGCGCGCTCTGCACATGAAGGAGCACCCGATTATAAATACCGGCCGCGGCGGAA  
AACCAAGACGCTCATGAAGAAGGATAAGTACACGCTTCCCGAGGCTTGCTGGCCCCCGGCGGGAACAGC  
ATGGCGAGCGGGTTGGGTGGGCGCGGCTGGGTGCGGGCGTGAACCAGCGCATGGACAGCTACGCGC  
ACATGAACGGCTGGAGCAACGGCAGCTACAGCATGATGCAGGAGCAGCTGGGCTACCCGACGACCCGGG  
CCTCAACGCTCACGGCGCGGCACAGATGAACCGATGCACCGCTACGACGTACGCGCCCTGCAGTACAAC  
TCCATGACCAGCTCGCAGACCTACATGAACGGCTCGCCACCTACAGCATGTCTACTCGCAGCAGGGCA  
CCCCGGTATGGCGTGGGCTCCATGGGCTCTGTGGTCAAGTCCGAGGCCAGTCCAGCCCCCGTGGT  
TACCTCTTCTCCCACTCCAGGGCGCCCTGCCAGGCCGGGACCTCCGGGACATGATCAGCATGTACCTC  
CCCGGCGCGAGGTGCCGAGCCGCTGCGCCAGTAGACTGCACATGGCCAGCACTACCAGAGCGGCC  
CGGTGCCCGGCACGGCCATTAACGGCACACTGCCCTGTGCACATG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja1770\\_c05.zip](https://cdn.origene.com/chromatograms/ja1770_c05.zip)

Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_011443
<b>Insert Size:</b>	960 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">BC057574</a> , <a href="#">AAH57574</a>
<b>RefSeq Size:</b>	2457 bp
<b>RefSeq ORF:</b>	960 bp
<b>Locus ID:</b>	20674
<b>UniProt ID:</b>	<a href="#">P48432</a>
<b>Cytogenetics:</b>	3 16.93 cM

**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 a similar gene in human 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, Sep 2015]