

## Product datasheet for **SC111023**

### SOX10 (NM\_006941) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SOX10 (NM_006941) Human Untagged Clone
Tag:	Tag Free
Symbol:	SOX10
Synonyms:	DOM; PCWH; WS2E; WS4; WS4C
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC111023 sequence for NM\_006941 edited (data generated by NextGen Sequencing)

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ATGGCGGAGGAGCAGGACCTATCGGAGGTGGAGCTGAGCCCCGTGGGCTCGGAGGAGCCC
CGCTGCCTGTCCCCGGGAGCGCCCTCGCTAGGGCCGACGGCGGGCGGCGGGATCG
GGCCTGCGAGCCAGCCGGGGCCAGGCGAGCTGGGCAAGTCAAGAAGGAGCAGCAGGAC
GGCGAGGGGACGATGACAAGTTCCCCGTGTGCATCCGCGAGGCCGTAGCCAGGTGCTC
AGCGGCTACGACTGGACCTGGTGCCCATGCCCGTGCCTCAACGGCGCCAGCAAAAAG
AAGCCGCACGTCAAGCGGCCCATGAACGCCTTCATGGTGTGGGCTCAGGCAGCGCCAGG
AAGCTCGCGGACCACTACCCGCACCTGCACAACGCTGAGCTCAGCAAGACGCTGGCAAG
CTCTGGAGGCTGTGAACGAAAGTGACAAGCGCCCTTCATCGAGGAGGCTGAGCGGCTC
CGTATGCAGCACAAAGAAAGACCACCCGACTACAAGTACCAGCCAGGCGGCGAAGAAC
GGGAAGGCCGCCAGGGCGAGGCGGAGTGCCCGGTGGGAGGCCAGCAAGGTGGGACC
GCCGCCATCCAGGCCACTACAAGAGCGCCACTTGGACCACCGCACCCAGGAGAGGGC
TCCCCCATGTGATGGTAACCCCGAGCACCCCTCAGGCCAGAGCCATGGCCACCCACC
CCTCCAACCCCGAAGACAGAGCTGCAGTCGGGCAAGGCAGACCCGAAGCGGGAGCGG
CGCTCCATGGGGAGGGCGGAAGCCTCACATCGACTTCGGCAACGTGGACATTGGTGAG
ATCAGCCACGAGGTAATGTCCAACATGGAGACCTTTGATGTGGCTGAGTTGGACCAGTAC
CTGCCGCCAATGGGCACCCAGGCCATGTGAGCAGCTACTCAGCAGCCGGCTATGGGCTG
GGCAGTGCCCTGGCCGTGGCCAGTGGACTCCGCCTGGATCTCCAAGCCACCAGGCGTG
GCTCTGCCACGGTCTCACCCACTGGTGTGGATGCCAAAGCCAGGTGAAGACAGAGACC
GCGGGGCCAGGGGCCACACTACACCGACCAGCCATCCACCTCACAGATCGCCTAC
ACCTCCCTCAGCTGCCCACTATGGCTCAGCCTTCCCTCCATCTCCCGCCCCAGTTT
GACTACTGACCATCAGCCCTCAGGACCCTATTATGGCACTCGGGCCAGGCCCTGTGC
CTCTACTCGGCCCTCTCCTATATGGGGCCCTCGCAGCGGCCCTTACACGGCCATCTCT
GACCCAGCCCTCAGGGCCCCAGTCCCACAGCCACACACTGGGAGCAGCCAGTATAT
ACGACACTGTCCCGCCCTAA

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Clone variation with respect to NM\_006941.3  
678 g=>t

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_006941 unedited

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AACTCGAGAATTGTTAAACGACTACTATAGGCGGCCGCGCAATTCGCACGAGGTCCGGCC
GGGTGGTTGGTGGTAAGGATTACAGGCTCCGTCTAACGAGGCCGTGGCCTGAGGCTCAGG
GCCCCCGCCCCCTCCCTCCCAGCCACCAGCGTCACCTCCCAGCCCCGAGCTGGACCACA
CACCTTGGGACACGGTTTTCCACTTCTAAGGACGAGCCCCAGACTGGAGGAGAGTCCG
AGGAGGTGGGCGTTGACTCTTTGCGAGGACCCCGCGGCTGGCCGGGGGAGGGCGCCG
AGCGGGCGGGCGGCGGCCGGGGCGACATGGCGGAGGAGCAGGACCTATCGGAGGTGG
AGCTGAGCCCCGTGGGCTCGGAGGAGCCCCGCTGCCTGTCCCGGGGAGCGGCCCTCGC
TAGGGCCCGACGCGCGCGGCGGATCGGGCCTGCGAGCCAGCCGGGGCCAGGCGAGC
TGGGCAAGGTCAAGAAGGAGCAGCAGGACGCGGAGGCGGACGATGACAAGTTCCCCGTGT
GCATCCGCGAGGCCGTACGCCAGGTGCTCAGCGGCTACGACTGGACGCTGGTGCCATGC
CCGTGCGCGTCAACGGCGCCAGCAAAAGCAAGCCGACGTCAAGCGGCCCATGAACGCTT
TCATGGTGTGGGCTCAGGACGCGCAGGAAGCTCGCGGACCAGTACCCGCACCTGCACA
ACGCTGAGCTCAGCAAGACGCTGGGCAAGCTCTGGAGGCTGCTGNACGAAAGTGACAAGC
GCCCTTCATCGAGGAGGCTGAGCGGCTCCGTATGCAGCACAAAGAAAGACCACCGGACTA
CCAGTACCAGCCCCAGCGCGGAAGAACGGGAAGGCCGNCCCCAGGCANNGCGATGCCCC
CCGTNGGGGAGGCCCGAACAGGGTGGGACCGCCGCNATCCCAGCCCACTACNAGAGCC

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**Restriction Sites:** Please inquire  
**ACCN:** NM\_006941  
**Insert Size:** 3500 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>	<p>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).</p>
<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>RefSeq:</b>	<a href="#">NM_006941.3</a> , <a href="#">NP_008872.1</a>
<b>RefSeq Size:</b>	2882 bp
<b>RefSeq ORF:</b>	1401 bp
<b>Locus ID:</b>	6663
<b>UniProt ID:</b>	<a href="#">P56693</a>
<b>Cytogenetics:</b>	22q13.1
<b>Protein Families:</b>	Adult stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors
<b>Gene Summary:</b>	<p>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 activator after forming a protein complex with other proteins. This protein acts as a nucleocytoplasmic shuttle protein and is important for neural crest and peripheral nervous system development. Mutations in this gene are associated with Waardenburg-Shah and Waardenburg-Hirschsprung disease. [provided by RefSeq, Jul 2008]</p>