

## Product datasheet for **SC112518**

### SOX17 (NM\_022454) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SOX17 (NM_022454) Human Untagged Clone
Tag:	Tag Free
Symbol:	SOX17
Synonyms:	VUR3
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 sequence for NM\_022454 edited  
 GGTACGCTGTAGACCAGACCGCGACAGGCCAGAACACGGGCGGCGGCTTCGGGCCGGGAG  
 ACCCGCGCAGCCCTCGGGGCATCTCAGTGCCTATTCCCCACCCCTCCCCGGGTGGG  
 GGAGGCGGCGCTCCGGCGGAGGGTTGAGGGGAGCGGGGAGGCTGGAGCGCCATGAGC  
 AGCCCGGATGCGGGATACGCCAGTGACGACCAGAGCCAGACCCAGAGCGCGCTGCCCGG  
 GTGATGGCCGGGCTGGGCCCTGCCCTGGGCCGAGTCGCTGAGCCCCATCGGGGACATG  
 AAGTGAAGGGCGAGGCCCGGCGAACAGCGGAGCACCGGCCGGGGCCGCGGGGAGCC  
 AAGGGCGAGTCCCGTATCCGGCGCCGATGAACGCTTTCATGGTGTGGGCTAAGGACGAG  
 CGCAAGCGGCTGGCGCAGCAGAATCCAGACCTGCACAACGCCGAGTTGAGCAAGATGCTG  
 GGCAAGTCGTGGAAGGCGCTGACGCTGGCGGAGAAGCGGCCCTTCGTGGAGGAGGCAGAG  
 CGGCTGCGCGTGACGACATGCAGGACCACCCAACTACAAGTACCGGCCGCGCGGCGC  
 AAGCAGGTGAAGCGGCTGAAGCGGGTGGAGGGCGGCTTCTGCACGGCTGGCTGAGCCG  
 CAGGCGGCCGCGTGGGCCCGAGGGCGGCGCGTGGCCATGGACGGCTGGGCTCCAG  
 TCCCCGAGCAGGGCTTCCCCCGGCCCGCGCTGCTGCCTCCGCACATGGGCGGCCAC  
 TACCGGACTGCCAGAGTCTGGGCGCGCTCCGCTCGACGGCTACCCGTTGCCACGCCC  
 GACACGTCCCCGCTGGACGGCGTGGACCCGACCCGGCTTCTTCGCCGCCCCGATGCC  
 GGGGACTGCCCGGCGGCCGACCTACAGCTACGCGCAGGTCTCGGACTACGCTGGCCCC  
 CCGGAGCCTCCCGCCGCTCCATGCACCCCGACTCGGCCAGAGCCCGGGTCCCTCG  
 ATTCGGGCTCCTGGCGCCACCCAGCGCCCTTACGTGTACTACGGCGCGATGGGCTCG  
 CCCGGGGCGGGCGGGCGCGGCTTCCAGATGCAGCCGAACACCAGCACCAGCACCAG  
 CACCAGCACCACCCCGGGCCCGGACAGCCGTGCCCCCTCCGGAGGCACTGCCCTGC  
 CGGGAGCGCAGGACCCAGTCAGCCCGCGAGTCTCCGGGAGGTGGACCGCACGGAA  
 TTTGAACAGTATCTGCACTTCGTGTGCAAGCCTGAGATGGGCTCCCTACCAGGGGAT  
 GACTCCGGTGTGAATCTCCCGACAGCCACGGGGCATTTCCTCGGTGGTGTCCGACGCC  
 AGCTCCGCGTATATTACTGCAACTATCCTGACGTGTGACAGGTCCCTGATCCGCCCCAG  
 CCTGCAGGCCAGAAGCAGTGTACACACTTCTGGAGGAGCTAAGGAAATCCTCAGACTC  
 CTGGGTTTTTGTGTTGCTGTTGTTTTTTTTAAAGGTGTTGGCATAATAATTTATGG  
 TAATTTATTTGCTGCCACTTGAACAGTTTGGGGGGTGAGGTTTCATTTAAAATTTGT  
 TCAGAGATTTGTTCCCATAGTTGGATTGTCAAAACCCTATTTCCAAGTTCAAGTAACT  
 AGCTTTGAATGTGTCCAAAACAGCTTCTCCATTTCTGAAAGTTTATTGATCAAGAA  
 ATGTTGCTCGGTGTGTTTTTCAATCTCTAAAAAATAAAATCTGGAATCCTGAAAAA  
 AAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_022454 unedited  
 AAAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGACCAGGTACGCTGTAGACC  
 AGACCGGACAGGCCAGACACGGGCGGCGGCTTCGGGCCGGGAGACCCGCGCAGCCCTCG  
 GGGCATCTCAGTGCCTATTCCCCACCCCTCCCCGGGTGGGGGAGGCGGCGCTCCG  
 GCGGAGGTTGAGGGGAGCGGGGACGGCCTGGAGCGCCATGAGCAGCCCGATGCCGGAT  
 ACGCCAGTGACGACCAGAGCCAGACCCAGAGCGCGCTGCCCGCGGTGATGGCCGGGCTGG  
 GCCCTGCCCTGGGCGGAGTCGCTGAGCCCCATCGGGGACATGAAGGTGAAGGGCGAGG  
 CGCCGGCGAACAGCGGAGACCGGCCGGGGCCGCGGGCCGAGCCAAGGGCGAGTCCCGTA  
 TCCGGCGCCGATGAACGCTTTCATGGTGTGGGCTAAGGACGAGCGCAAGCGGCTGGCGC  
 AGCAGAATCCAGACCTGCACAACGCCGAGTTGAGCAAGATGCTGGGCAAGTCGTGAAGG  
 CGCTGACGCTGGCGGAGAAGCGGCCCTTCGTGGAGGAGGAGAGCGGCTGCGCGTGCAGC  
 ACATGCAGGACCACCCAACTACAAGTACCGGCCGCGGGCGCAAGCAGGTGAAGCGGC  
 TGAAGCGGGTGGAGGGCGGCTTCTGCACGGCTGGCTGAACCCGACGCGGCCGCGCT  
 GGGCCCCGAGGGCGGNCGCTGGCATGGACGGNCTGGCCCTCAGTTCCCGAGCAGGGCTT  
 CCCGNCGCCGNCGCTGCTGNCTCGACATGGGGCGCCTANCGGATGGCANAGNCTGGG  
 CGCGCCTCGGTGACGGTACCCGNTGCCAGCNCGAACGNCGGTGGNAGGGNGTGGACC  
 CCGACCGCTTCTCGGCCGAGCCCCGGGATGGCCGNGGGCGGACTACGTACCGCAAGG  
 CTCGGACTACCTG

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_022454 unedited TANGATTTCGATTTTTTTTTTTTTTTTTTTTTCAGGATTCCAGATTTTTATTTTTTAGAAGATGA AAAAACACACCCAGGACAACATTTCTTTGATCAATAAACTTTTCAGGAAATGGAGGAAGCT GTTTTGGGACACATTCAAAGCTAGTTAACTTGAACCTGGAAATAGGGTTTTGACAATCCA ACTATGGGAAACAAATCTCTGAACAAATTTAAATGAAACCTCACCCCCCAACTGTTC AAGTGGCAGACAAAATAAATTACCATAAATTATATGCCAACACACCTTTTAAAAAACAAC AACAGCAACAACAAAAACCCAGGAGTCTGAGGATTTCCCTTAGCTCCTCCAGGAAAGTG AACACTGCTTCTGGCCTGCAGGCTGGGGCGGATCAGGGACCTGTACACGTCAGGATAGT TGCAGTAATATACCGCGAGCTGGCGTCGGACACCACCGAGGAAATGGCCCCGTGGCTGT CGGGGAGATTCACACCGAGTACATGCCCTGGTAGGGAGGCCCATCTCATGCTTGACACA CGAAGTGACAGATACTGTTCAAATCCGTGCGGTCCACCTCCCGAGGAGCTCGGGGGCT GACTGGGGTCCGTGCCGTCCCGCAGGGCAGTGCCTCCGAGGGGGCGACGGCTGTCGG AGCCCCGGGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG CGNGCCCGCCGCCCGCCCGGGCAGCCCATCGCGCCGTANTACACGTGAAGGGCGCTGG GTGGCGCCAGNAGCCCCGGGATCGAGGGACCCGGCGGCTCTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_022454
<b>Insert Size:</b>	1800 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<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>RefSeq:</b>	<u>NM_022454.2, NP_071899.1</u>
<b>RefSeq Size:</b>	1853 bp
<b>RefSeq ORF:</b>	1245 bp
<b>Locus ID:</b>	64321
<b>UniProt ID:</b>	<u>Q9H6I2</u>
<b>Cytogenetics:</b>	8q11.23
<b>Domains:</b>	HMG

**Protein Families:** Transcription Factors

**Protein Pathways:** Wnt signaling pathway

**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. [provided by RefSeq, Jul 2008]