

## Product datasheet for **MC227016**

### Shox2 (NM\_001302357) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Shox2 (NM\_001302357) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Shox2  
**Synonyms:** 6330543G17Rik; OG12; Og12x; Prx3; SHOT  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227016 representing NM\_001302357  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAAGAACTTACGGCGTTCGCTCTCCAAGTCTTTTGACCAGAAAGTGAAGGAGAAGAAGGAGGCCATCA  
CGTACCGGGAGGTGCTAGAGAGCGGGCCGCTGCGCGGGGCCAAAGAGCCCGTTGCGTCGAGCCGGGCC  
CGACGACCGCAGCAGCCCGCAGTCCGGGCGGCCGGCGGAGGCGCGCGGGAGGAGGCGGAGGCGGA  
GGCGGAGGAGGCGGAGGAGGTGCTGGAGGAGGAGGAGCAGGCGGAGGAGCTGGAGGAGGCGCTCTCCC  
TCCGGGAGCTGGACATGGGAGCCGCGGAGCGGAGCAGGGAGCCCGCAGCCCGCGCTGACGGAGGTGTC  
CCCTGAACTGAAGGATCGCAAAGACGATGCGAAAGGGATGGAGGACGAAGGCCAGACCAAAATCAAGCAG  
AGGCGAAGTCGGACCAATTTTACCCTGGAACAACCAACGAGCTGGAGAGGCTTTTCGATGAGACCCACT  
ATCCAGACGCTTTCATGCGCGAGGAATTGAGCCAGCGACTGGGGCTCTCTGAGGCCGAGTACAGGTTTG  
GTTTCAAATCGAAGAGCTAAGTGTAGAAAACAGAAAATCAACTCACAAAGGTGTCCTTATAGGAGCC  
GCTAGCCAGTTTGAAGCTTGTAGAGTTGCACCCTATGTCAACGTAGGTGCTTTAAGGATGCCATTTACAG  
AGGTTACGGCGCAGCTGCAGCTGGACAGCGCCGTGGCGCACGCCACCACCTGCATCCGACCTGGC  
CGCGCACGCGCCTTACATGATGTTCCCGCACCGCCCTTCGGACTGCCGCTGGCCACGCTGGCCCGGAC  
TCGGCCTCGGCCCTCGGTGGTGGCCGCTGCCGCCGCCCAAGACCACCAGCAAGAATCCAGCATCG  
CGGATCTCAGACTGAAAGCTAAAAGCACGCGGCCCTGGGTCTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001302357  
**Insert Size:** 960 bp



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<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>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<a href="#">NM_001302357.1</a> , <a href="#">NP_001289286.1</a>
<b>RefSeq Size:</b>	3102 bp
<b>RefSeq ORF:</b>	960 bp
<b>Locus ID:</b>	20429
<b>UniProt ID:</b>	<a href="#">P70390</a>
<b>Cytogenetics:</b>	3 30.76 cM
<b>Gene Summary:</b>	<p>May be a growth regulator and have a role in specifying neural systems involved in processing somatosensory information, as well as in face and body structure formation. May also have a role in heart development.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' terminal exon, compared to variant 1. The encoded isoform (2) is shorter compared to isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>