

Product datasheet for MC226178

Shox2 (NM_001302358) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Shox2 (NM_001302358) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Shox2
Synonyms:	6330543G17Rik; OG12; Og12x; Prx3; SHOT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC226178 representing NM_001302358 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGAGGACGAAGGCCAGACCAAATCAAGCAGAGGCGAAGTCGGACCAATTTTACCTGGAACAACTCAACGAGCTGGAGAGGCTTTTCGATGAGACCCACTATCCAGACGCTTTCATGCGCGAGGAATTGAGCCAGCGACTGGGGCTCTCTGAGGCCCGAGTACAGGTTTGGTTTCAAATCGAAGAGCTAAGGTAGAAAACAGGAAATCAACTTCACAAAGGTGCTTATAGGAGCCGCTAGCCAGTTTGAAGCTTGTAGAGTTGCACCCTATGTCAACGTAGGTGCTTTAAGGATGCCATTTACAGCAGTTTCAGGCGCAGCTGCAGCTGGACAGCGCCGTGGCGACGCGCACCACCCTGCATCCGCACCTGGCCGCGCACGCGCCTTACATGATGTTCCCGGCACCGCCCTTCGGACTGCCGCTGGCCACGCTGGCCGCGGACTCGGCCCTCGGCCGCTCGGTGGTGGCCGCTGCCGCCCGCCAAGACCACCAGCAAGAACTCCAGCATCGCGGATCTCAGACTGAAAGCTAAAAAGCACGCGGCCGCCTGGGTCTG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001302358
Insert Size:	573 bp



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OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001302358.1</u> , <u>NP_001289287.1</u>
RefSeq Size:	2589 bp
RefSeq ORF:	573 bp
Locus ID:	20429
UniProt ID:	<u>P70390</u>
Cytogenetics:	3 30.76 cM
Gene Summary:	<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 (3) uses a downstream alternate 5'-terminal exon and uses an alternate in-frame splice site in the 3' terminal exon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus compared to isoform 1. Both variants 3 and 4 encode the same isoform (3).</p>