

Product datasheet for **MR228390**

Shox2 (NM_001302359) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Shox2 (NM_001302359) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Shox2
Synonyms: 6330543G17Rik; OG12; Og12x; Prx3; SHOT
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228390 representing NM_001302359
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGGACGAAGGCCAGACAAAATCAAGCAGAGGCCAAGTCGGACCAATTTACCTGGAACAACCTCA
ACGAGCTGGAGAGGCTTTTCGATGAGACCCACTATCCAGACGCTTTCATGCGCGAGGAATTGAGCCAGCG
ACTGGGGCTCTCTGAGGCCCGAGTACAGGTTTGGTTTCAAATCGAAGAGCTAAGTGTAGAAAACAGGAA
AATCAACTTCACAAAGGTGTCCTTATAGGAGCCGCTAGCCAGTTTGAAGCTTGTAGAGTTGCACCCTATG
TCAACGTAGGTGCTTTAAGGATGCCATTTTCAGCAGGTTTCAGGCGCAGCTGCAGCTGGACAGCGCCGTGGC
GCACGCGCACCACCTGCATCCGCACCTGGCCGCGCACGCGCCTTACATGATGTTCCCGGCACCGCCC
TTCGGACTGCCGTGGCCACGCTGGCCGCGGACTCGGCCCTCGGCCGCTCGGTGGTGGCCGCTGCCGCCG
CCGCCAAGACCACGCAAGAATCCAGCATCGCGGATCTCAGACTGAAAGCTAAAAAGCACGCGGCCGC
CCTGGGTCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228390 representing NM_001302359
Red=Cloning site Green=Tags(s)

MEDEGQTKIKQRRSRTNFTLEQLNELERLFDETHYPDAFMREELSQRLLGLSEARVQVWFQNRRAKCRKQE
NQLHKGVLI GAASQFEACRVAPYVNVGALRMPFQQVQAQLQLDSAVAHAAHHHLHPHLAAHAPYMMFPAPP
FGLPLATLAADSASAASVAAAAAAKTTSKNSSIADLRLKAKKHAAALGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

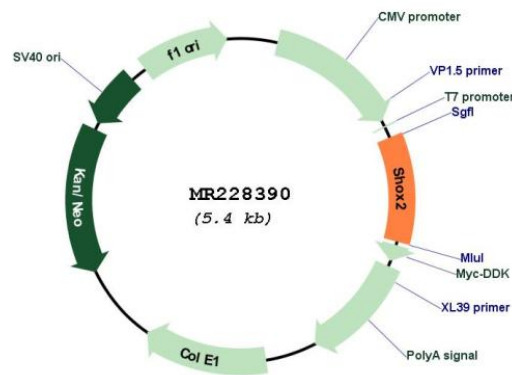
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001302359

ORF Size: 570 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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: [NM_001302359.1](#), [NP_001289288.1](#)

RefSeq Size: 1081 bp

RefSeq ORF: 573 bp

Locus ID: 20429

UniProt ID: [P70390](#)

Cytogenetics: 3 30.76 cM

MW: 21.4 kDa

Gene Summary: 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]