

Product datasheet for MR229227

Shox2 (NM_001302357) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Shox2 (NM_001302357) 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: >MR229227 representing NM_001302357
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAAGAACTTACGGCGTTCGCTCTCCAAGTCTTTTGACCAGAAAGTGAAGGAGAAGAAGGAGGCCATCA
CGTACCGGGAGGTGCTAGAGAGCGGGCCGCTGCGCGGGGCCAAAGAGCCCGTTGCGTCGAGCCGGGCC
CGACGACCGCAGCAGCCCGCAGTCCGGGCGGCCGGCGGAGGCGGCGCGGGAGGAGGCGGAGCGGA
GGCGGAGGAGGCGGAGGAGGTGCTGGAGGAGGAGGAGCAGGCGGAGGAGCTGGAGGAGGCGCTCTCCC
TCCGGGAGCTGGACATGGGAGCCGCGGAGCGGAGCAGGGAGCCCGCAGCCCGCGCTGACGGAGGTGTC
CCCTGAACTGAAGGATCGCAAAGACGATGCGAAAGGATGGAGGACGAAGGCCAGACCAAAATCAAGCAG
AGGCGAAGTCGGACCAATTTTACCCTGGAACAACCAACGAGCTGGAGAGGCTTTTCGATGAGACCCACT
ATCCAGACGCTTTCATGCGCGAGGAATTGAGCCAGCGACTGGGGCTCTCTGAGGCCCGAGTACAGGTTTG
GTTTCAAATCGAAGAGCTAAGTGTAGAAAACAGAAAATCAACTTCACAAAGGTGTCCTTATAGGAGCC
GCTAGCCAGTTTGAAGCTTGTAGAGTTGCACCCATGTCAACGTAGGTGCTTTAAGGATGCCATTTACAG
AGGTTACGGCGCAGCTGCAGCTGGACAGCGCCGTGGCGCACGCGCACCCACCTGCATCCGACCTGGC
CGCGCACGCGCCTTACATGATGTTCCCGCACCGCCCTTCGGACTGCCGCTGGCCACGCTGGCCCGGAC
TCGGCCTCGGCCCTCGGTGGTGGCCGCTGCCGCCGCCCAAGACCACCGCAAGAAGCTCCAGCATCG
CGGATCTCAGACTGAAAGCTAAAAGCACGCGGCCCTGGGTCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229227 representing NM_001302357
Red=Cloning site Green=Tags(s)

MEELTAFVSKSFDQKVKEKKEAITYREVLESGPLRGAKEPGCPEPRDDRSSPAVRAAGGGGGAGGGGGG
 GGGGGGGAGGGGAGGGGAGGGRSPVRELDMGAAERSREPGSPRLTEVSPCLKDRKDDAKGMEDEGQTKIKQ
 RRSRTNFTLEQLNELERLFDETHYPDAFMREELSQRLLGLSEARVQVWFQNRRAKCRKQENQLHKGVLI
 GASQFEACRVAPYVNVGALRMPFQQVQAQLQLDSAVAHAAHHHLHPHLAAHAPYMMFPAPPFGLPLATLAAD
 SASAASVVAATAAAKTTSKNSSIADLRLKAKKHAAALGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

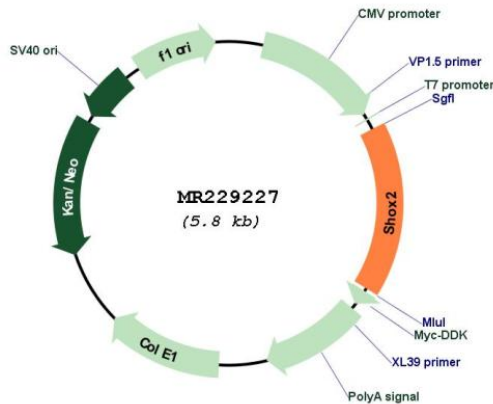
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001302357

ORF Size: 957 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:	<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:	NM_001302357.1 , NP_001289286.1
RefSeq Size:	3102 bp
RefSeq ORF:	960 bp
Locus ID:	20429
UniProt ID:	P70390
Cytogenetics:	3 30.76 cM
MW:	34 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]