

## Product datasheet for MR223575

### Shox2 (NM\_013665) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Shox2 (NM_013665) Mouse Tagged ORF Clone                                    |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Shox2   |
| Synonyms:                 | 6330543G17Rik; OG12; Og12x; Prx3; SHOT                                      |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >MR223575 representing NM_013665<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGAACTTACGGCGTTTCGTCTCCAAGTCTTTTGACCAGAAAGTGAAGGAGAAGAAGGAGGCCATCA  
CGTACCGGGAGGTGCTAGAGAGCGGGCCGCTGCGCGGGCCAAAGAGCCCGTTGCGTCGAGCCGGGCCG  
CGACGACCGCAGCAGCCCGCAGTCCGGCGGCCGGCGGAGGCGCGCGGGAGGAGGCGGAGGCCGGA  
GGCGGAGGAGCGGAGGAGGTGCTGGAGGAGGAGCAGGCGGAGGAGCTGGAGGAGGGCGCTCTCCCG  
TCCGGGAGCTGGACATGGGAGCCGCGGAGCGGAGCAGGGAGCCCGCAGCCCGCGCTGACGGAGGTGTC  
CCCTGAACTGAAGATCGCAAAGACGATGCGAAAAGGGATGGAGGACGAAGGCCAGACCAAAATCAAGCAG  
AGGCGAAGTCCGACCAATTTTACCTGGAACAACCTCAACGAGCTGGAGAGGCTTTTCGATGAGACCCACT  
ATCCAGACGCTTTCATGCGCGAGGAATTGAGCCAGCGACTGGGGCTCTCTGAGGCCCGAGTACAGGTTTG  
GTTTCAAATCGAAGAGCTAAGTGTAGAAAACAGGAAAATCAACTTCACAAAGGTGTCCTTATAGGAGCC  
GCTAGCCAGTTTGAAGCTTGTAGAGTTGCACCCTATGTCAACGTAGGTGCTTTAAGGATGCCATTTACAG  
AGGATAGTCATTGCAACGTGACGCCCTTGTCTTTCAGGTTTCAGGCGCAGCTGCAGCTGGACAGCGCCGT  
GGCGCACGCGCACCAACCTGCATCCGCACCTGGCCGCGCACGCGCCTTACATGATGTTCCCGGACCCG  
CCCTTCGGACTGCCGCTGGCCACGCTGGCCGCGGACTCGGCCCTCGCCCGCTCGGTGGTGGCCGCTGCCG  
CCGCCCAAGACCACCAGCAAGAACTCCAGCATCGCGGATCTCAGACTGAAAGCTAAAAAGCACGCGGC  
CGCCCTGGGTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR223575 representing NM\_013665  
Red=Cloning site Green=Tags(s)

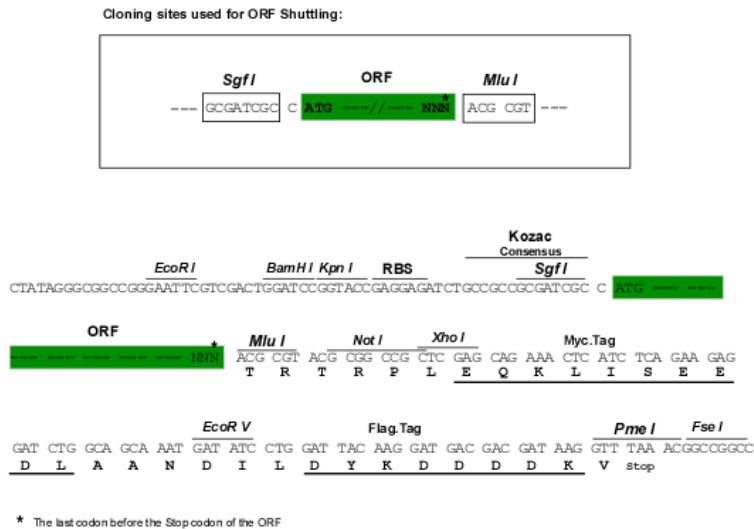
```
MEELTAFVSKSFDQKVKEKKEAITYREVLESGPLRGAKEPGCPEPRDDRSSPAVRAAGGGGGAGGGGGG
GGGGGGGAGGGGAGGGGRSPVRELDMGAAERSREPGSPRLTEVSPELKDRKDDAKGMEDEGQTKIKQ
RRSRTNF TLEQLNELERLFDETHYPDAFMREELSQLGLSEARVQVWFQNRRAKCRKQENQLHKGVLI GA
ASQFEACRVAPYVNVGALRMPFQQDSHCNVTPLSFQVQAQLQLDSAVAHAHHHLHPLAAHAPYMMFPAP
PFGLPLATLAADSASAASVVAATAAKTTSKNSSIADLRLKAKKHAAALGL
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9035\\_a10.zip](https://cdn.origene.com/chromatograms/mm9035_a10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_013665

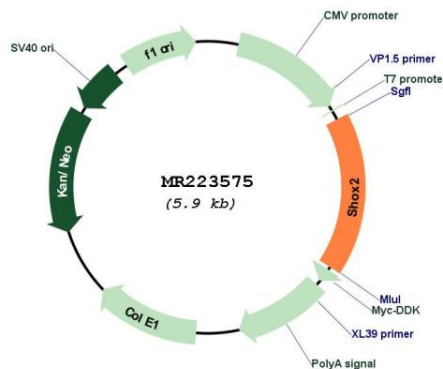
**ORF Size:** 993 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_013665.1](#), [NP\\_038693.1](#)
- RefSeq Size:** 1603 bp
- RefSeq ORF:** 996 bp
- Locus ID:** 20429
- UniProt ID:** [P70390](#)
- Cytogenetics:** 3 30.76 cM
- MW:** 35.4 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]

**Product images:**



Circular map for MR223575