

Product datasheet for **RC212490**

SHOX (NM_006883) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SHOX (NM_006883) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SHOX
Synonyms: GCFX; PHOG; SHOXY; SS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC212490 representing NM_006883
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGAGCTCACGGCTTTTGTATCCAAGTCTTTTGACCAGAAAAGCAAGGACGGTAACGGCGGAGGCG
GAGGCGGCGGAGGTAAGAAGGATTCCATTACGTACCGGGAAGTTTGGAGAGCGGACTGGCGCGCTCCCG
GGAGCTGGGGACGTCGGATTCCAGCCTCCAGGACATCACGGAGGGCGGCGCCACTGCCCGGTGCATTTG
TTCAAGGACCACGTAGACAATGACAAGGAGAACTGAAAGAATTCGGCACCGGAGAGTGGCAGAAGGGA
TTTATGAATGCAAAGAGAAGCGCGAGGACGTGAAGTCGGAGGACGAGGACGGGCAGACCAAGCTGAAACA
GAGGCGCAGCCGACCAACTTCAGCTGGAGCAGCTGAACGAGCTCGAGCGACTCTCGACGAGACCCAT
TACCCCGACGCCTTCATGCGCGAGGAGCTCAGCCAGCGCCTGGGGCTCTCCGAGGCGCGCTGCAGGTTT
GGTTCCAGAACCAGGAGGCAAGTGCCGCAAACAAGAGAATCAGATGCATAAAGGCGTCATCTTGGGCAC
AGCCAACCACCTAGACGCCTGCCGAGTGGCACCCTACGTCAACATGGGAGCCTTACGGATGCCTTTCCAA
CAGATGGAGTTTTGCTCTTGTGCGCCGGGCTGGAGTATAATGGCA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC212490 representing NM_006883
Red=Cloning site Green=Tags(s)

MEELTAFVSKSFDQKSKDGNNGGGGGGGKKDSITYREVLESGLARSRELGTSDSSLQDITEGGGHCPVHL
 FKDHVDNDKEKLKEFGTARVAEGIYECKEKREDVKSEDEGQTKLKQRRSRTNFTLEQLNELERLFDETH
 YPDAFMREELSQRRLGLSEARVQVWFQNRRAKCRKQENQMHKGVILGTANHLDACRVAPYVNMGALRMPFQ
 QMEFCSCRPGWSIMA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_006883

ORF Size: 675 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_006883.2](#), [NP_006874.1](#)

RefSeq Size: 1951 bp

RefSeq ORF: 678 bp

Locus ID: 6473

UniProt ID: [O15266](#)

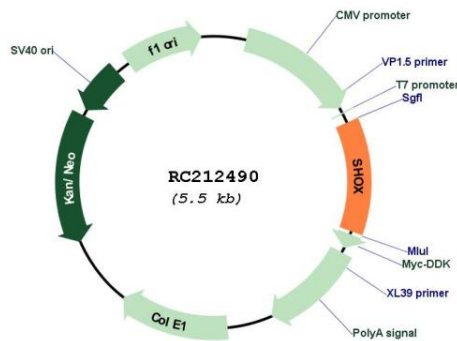
Cytogenetics: X;Y

Protein Families: Transcription Factors

MW: 25.5 kDa

Gene Summary: This gene belongs to the paired homeobox family and is located in the pseudoautosomal region 1 (PAR1) of X and Y chromosomes. Defects in this gene are associated with idiopathic growth retardation and in the short stature phenotype of Turner syndrome patients. This gene is highly conserved across species from mammals to fish to flies. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC212490