

Recombinant Human SHOX2

Cat. No. SHOX2-31358TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 117-204 of Human SHOX2 with proprietary tag; Predicted MWt 35.31 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	88 amino acids
Description	This gene is a member of the homeobox family of genes that encode proteins containing a 60-amino acid residue motif that represents a DNA binding domain. Homeobox genes have been characterized extensively as transcriptional regulators involved in pattern formation in both invertebrate and vertebrate species. Several human genetic disorders are caused by aberrations in human homeobox genes. This locus represents a pseudoautosomal homeobox gene that is thought to be responsible for idiopathic short stature, and it is implicated in the short stature phenotype of Turner syndrome patients. This gene is considered to be a candidate gene for Cornelia de Lange syndrome. Alternative splicing results in multiple transcript variants.
Molecular Weight	35.310kDa inclusive of tags
Tissue specificity	Expressed in heart, skeletal muscle, liver, lung, bone marrow fibroblast, pancreas and placenta.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.31% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	SPELKDRKDDAKGMEDEGQTKIKQRRSRTNFTLEQLNELERLFDETHYPDAFMREE LSQRLGLSEARVQVWFQNNRAKCRKQENQLHK
Sequence Similarities	Belongs to the paired homeobox family. Bicoid subfamily.Contains 1 homeobox DNA-binding domain.

GENE INFORMATION

Gene Name	SHOX2 short stature homeobox 2 [Homo sapiens]
Official Symbol	SHOX2
Synonyms	SHOX2; short stature homeobox 2; short stature homeobox protein 2; OG12; OG12X; SHOT;
Gene ID	6474
mRNA Refseq	NM_001163678
Protein Refseq	NP_001157150
MIM	602504

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Uniprot ID	O60902
Chromosome Location	3q25.32
Function	transcription regulatory region sequence-specific DNA binding;

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