

Recombinant Human SIX1

Cat. No. SIX1-30869TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human SIX1 with N-terminal proprietary tag, 56.98 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	284 amino acids
Description	The protein encoded by this gene is a homeobox protein that is similar to the Drosophila sine oculis gene product. This gene is found in a cluster of related genes on chromosome 14 and is thought to be involved in limb development. Defects in this gene are a cause of autosomal dominant deafness type 23 (DFNA23) and branchiootoc syndrome type 3 (BOS3).
Molecular Weight	56.980kDa inclusive of tags
Tissue specificity	Specifically expressed in skeletal muscle.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

Sequences of amino acids

MSMLPSFGFTQEQVACVCEVLQQGGNLERLGRFLWSLPAC DHLHKNESVLKAKAV
 VAFHRGNFRELYKILESHQFSPHNH PKLQQLWLKAHYVEAEKLCGRPLGAVGKYRV
 RRFKPLPRT IWDGEETSYCFKEKSRGVLREWYAHNPYPSPREKRELAEA TGLTTT
 QVSNWFKNRRQRDRAAEAKERENTENNNSSSNKQ NQLSPLEGGKPLMSSSEEEF
 SPPQSPDQNSVLLLQGNMGH ARSSNYSPLGLTASQPSHGLQTHQHQLQDSLLGPL
 TSSLV DLGS

Sequence Similarities

Belongs to the SIX/Sine oculis homeobox family.Contains 1 homeobox DNA-binding domain.

GENE INFORMATION

Gene Name [SIX1 SIX homeobox 1 \[Homo sapiens \]](#)

Official Symbol [SIX1](#)

Synonyms

SIX1; SIX homeobox 1; deafness, autosomal dominant 23 , DFNA23, sine oculis homeobox (Drosophila) homolog 1 , sine oculis homeobox homolog 1 (Drosophila); homeobox protein SIX1;

Gene ID [6495](#)

mRNA Refseq [NM_005982](#)

Protein Refseq [NP_005973](#)

MIM [601205](#)

Uniprot ID [Q15475](#)

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Chromosome Location	14q23.1
Pathway	Transcriptional misregulation in cancers, organism-specific biosystem; Transcriptional misregulation in cancers, conserved biosystem;
Function	DNA binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; transcription regulatory region DNA binding;

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