

Recombinant Human HOXA1

Cat. No. HOXA1-28508TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human HOXA1 with N-terminal proprietary tag. Predicted MW 37.62kDa.
Species	Human
Source	Wheat Germ
ProteinLength	109 amino acids
Description	In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development. This gene is part of the A cluster on chromosome 7 and encodes a DNA-binding transcription factor which may regulate gene expression, morphogenesis, and differentiation. The encoded protein may be involved in the placement of hindbrain segments in the proper location along the anterior-posterior axis during development. Two transcript variants encoding two different isoforms have been found for this gene, with only one of the isoforms containing the homeodomain region.
Molecular Weight	37.620kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% 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	EYPILSSGDSGTCSARAYPSDHRITTFQSCAVSANS CGGD DRFLVGRGVQIGSPHH HHHHHHHPQPATYQTSGNLGVSYS HSSCGPSYGSQNFSAPYSPYALNQEADV
Sequence Similarities	Belongs to the Antp homeobox family. Labial subfamily.Contains 1 homeobox DNA-binding domain.

GENE INFORMATION

Gene Name	HOXA1 homeobox A1 [Homo sapiens]
Official Symbol	HOXA1
Synonyms	HOXA1; homeobox A1; homeo box A1 , HOX1, HOX1F; homeobox protein Hox-A1;
Gene ID	3198
mRNA Refseq	NM_005522
Protein Refseq	NP_005513
MIM	142955
Uniprot ID	P49639
Chromosome Location	7p15.2

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Function

protein binding; sequence-specific DNA binding; sequence-specific DNA binding
transcription factor activity;

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