

Recombinant Human HOXD4

Cat. No. HOXD4-26695TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human HOXD4 with a N terminal proprietary tag; Predicted MWt 32.45kDa.
Species	Human
Source	Wheat Germ
ProteinLength	62 amino acids
Description	This gene belongs to the homeobox family of genes. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, located on different chromosomes, consisting of 9 to 11 genes arranged in tandem. This gene is one of several homeobox HOXD genes located at 2q31-2q37 chromosome regions. Deletions that removed the entire HOXD gene cluster or 5 end of this cluster have been associated with severe limb and genital abnormalities. The protein encoded by this gene may play a role in determining positional values in developing limb buds. Alternatively spliced variants have been described but their full length nature has not been determined.
Molecular Weight	32.450kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MVMSSYMVNSKYVDPKFPPCEEYLQGGYLGEQGADYYGGGAQGADFQPPGLYPR PDFGEQPF
Sequence Similarities	Belongs to the Antp homeobox family. Deformed subfamily.Contains 1 homeobox DNA-binding domain.

GENE INFORMATION

Gene Name	HOXD4 homeobox D4 [Homo sapiens]
Official Symbol	HOXD4
Synonyms	HOXD4; homeobox D4; homeo box D4 , HOX4, HOX4B; homeobox protein Hox-D4;
Gene ID	3233
mRNA Refseq	NM_014621
Protein Refseq	NP_055436
Uniprot ID	P09016
Chromosome Location	2q31.1

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Function

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

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