

Recombinant Human HOXD4 Protein, GST-tagged

Cat. No. HOXD4-4997H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HOXD4 full-length ORF (NP_055436.2, 1 a.a. - 255 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq]
Molecular Mass	54.3 kDa
AA Sequence	MVMSSYMVNSKYVDPKFPPCEEYLQGGYLGEQGADYYGGGAQGADFQPPGLYPR PDFGEQPFGGSGPGPGSALPARGHGQEPGGPGGHYAAPGEPCPAPPAPPPAPLP GARAYSQSDPKQPPSGTALKQPAVVYPWMKKVHVNSVNPNTGGEPKRSRTAYT

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	RQQVLELEKEFHFNRYLTRRRRIEIAHTLCLSERQIKIWFQNRRMKWKKDHKLPNTK GRSSSSSSSSSCSSSVAPSQHLQPMADHHTDLTTL
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
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; homeobox protein Hox-4B; homeobox protein HHO.C13; homeobox protein Hox-5.1; Hox-4.2, mouse, homolog of homeo box X; HOX4; HOX4B; HHO.C13; HOX-5.1; Hox-4.2;
Gene ID	3233
mRNA Refseq	NM_014621
Protein Refseq	NP_055436

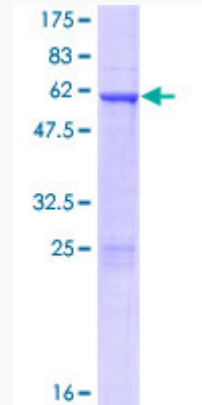
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UniProt ID

P09016

**Quality Control
Testing**

12.5% SDS-PAGE Stained with Coomassie Blue.

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