

## Product datasheet for **SC303129**

### HOXD10 (NM\_002148) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HOXD10 (NM_002148) Human Untagged Clone
Tag:	Tag Free
Symbol:	HOXD10
Synonyms:	Hox-4.4; HOX4; HOX4D; HOX4E
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_002148 edited  
 ATGTCCTTTCCCAACAGCTCTCCTGCTAATACTTTTTTAGTAGATTCCTTGATCAGT  
 GCCTGCAGGAGTGACAGTTTTTATCCAGCAGCGCCAGCATGTACATGCCACCACCTAGC  
 GCAGACATGGGGACCTATGGAATGCAAACCTGTGGACTGCTCCCGTCTCTGGCCAAAAGA  
 GAAGTGAACCACCAAAATATGGGTATGAATGTGCATCCTTATATACCTCAAGTAGACAGT  
 TGGACAGATCCGAACAGATCTTGTGCAATAGAGCAACCTGTTACACAGCAAGTCCCACT  
 TGCTCCTTACCACCAACATTAAGGAAGAATCCAATTGCTGCATGTATTCTGATAAGCGC  
 AACAACTCATTTCCGGCCGAGGTCCTTTCGTACCAGAGGCTGGTCCCTGAGTCTTGTCCC  
 GTTGAGAACCTGAGGTTCCCGTCCCTGGATATTTAGACTGAGTCAGACCTACGCCACC  
 GGGAAAACCAAGAGTACAATAATAGCCCCGAAGGCAGCTCCACTGTCATGCTCCAGCTC  
 AACCTCGTGGCGCGCCAAGCCGAGCTCTCCGCTGCCAGCTGCAGATGGAAAAGAAG  
 ATGAACGAGCCCGTGAGCGGCCAGGAGCCACCAAAAGTCTCCCAGGTGGAGAGCCCGAG  
 GCCAAAGCGGCCCTTCCCGAAGAGAGGAGCTGCCTGGCTGAGGTCTCCGTGCCAGTCCC  
 GAAGTGCAGGAGAAGGAAAGCAAAGAGGAAATCAAGTCTGATACCAACCAGCAATTGG  
 CTCAGTCAAAGAGTGGCAGAAAGAAGAGGTGCCCTTACACTAAGCACCAAACCGTGGAA  
 TTAGAAAAAGAGTTCTTGTTCATATGTACCTCACCCGCGAGCGCCGCTAGAGATCAGT  
 AAGAGCGTTAACCTCACCGACAGGCAGGTCAAGATTTGGTTTTCAAACCGCCGAATGAAA  
 CTCAAGAAGATGAGCCGAGAGAACC GGATCCGAGA ACTGACCGCCAACCTCACGTTTTCT  
 TAG



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002148 unedited</p> <pre> AGGTTCAAATATTTGTAATACGACTCACTATAGGGCGGCCGCGATTGCGCCTTTAAAATG TCCTTTCCCAACAGCTCTCCTGCTGCTAATACTTTTTTAGTAGATTCTTGATCAGTGCC TGCAGGAGTGACAGTTTTTATCCAGCAGCGCCAGCATGTACATGCCACCACCTAGCGCA GACATGGGGACCTATGGAATGCAAACCTGTGGACTGCTCCCGTCTCTGGCCAAAAGAGAA GTGAACCACAAAATATGGGTATGAATGTGCATCCTTATATACCTCAAGTAGACAGTTGG ACAGATCCGAACAGATCTTGTGCAATAGAGCAACCTGTTACACAGCAAGTCCCCACTTGC TCCTTCACCACCAACATTAAGGAAGAATCCAATTGCTGCATGTATTCTGATAAGCGCAAC AAACTCATTTTCGGCCGAGGTCCTTCGTACCAGAGGCTGGTCCCTGAGTCTTGTCCCGTT GAGAACCCTGAGGTTCCCGTCCCTGGATATTTTAGACTGAGTCAGACCTACGCCACCGGG AAAACCCAAGAGTACAATAATAGCCCCGAAGGCAGCTCCACTGTCATGCTCCAGTCAAC CCTCGTGGCGCGCCAAGCCGAGCTCTCCGCTGCCAGCTGCAGATGGAAAAGAAGATG AACGAGCCCGTGAGCGGCCAGNAGCCACCAAAGTCTCCAGGTGGAGAGCCCGAGGCC AAAGGCNGCCTTCCCGAAGAGAGGAGCTGCCTGGCTGNAGTCTCCGTGTCCAGTCCCGA GTGCANGAGAAGGAAAAGCAAGAGGAAATCCAGTCTGATACACCACCAGCATTGGNCTC ACTGCCAAGAAGTGCAAGAAAAGAAAAGTGCCTTACACTAAGCCACAAACGCTGGGAATT AGAAAAGAAGTTCCTGGTCATAATGTACC </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;Forward primer walk for NM_002148 unedited</p> <pre> NCGATACTAGCCGAAGCCAAANCGGCCTTCCCGAAGAAGACTGCCGGCTGAGTCTCCGTG TCCGTCGCCAATGCAGGAGAAGGAAAGCAAAGAGGAAATCAAGTCTGATACCAACCAG CAATTGGCTCACTGCAAAGAGTGGCAGAAAGAAGAGGTGCCCTTACACTAAGCACCAAAC GCTGGAATTAGAAAAAGAGTTCTTGTTCATATGTACCTCACCCGCGAGCGCCGCTAGA GATCAGTAAGAGCGTTAACCTCACCGACAGGCAGGTCAAGATTTGGTTTCAAACCGCCG AATGAAACTCAAGAAGATGAGCCGAGAGAACCGGATCCGAGAACTGACCCCAACCTCAC GTTTTCTTAGGTCTGAGGCCGGTCTGAGGCCGGTCAAGAGGCCAGGATTGGAGAGGGGGCA CCGCGTTCCAGGGCCAGTGTGGAGGACTGGGAAAGCGGAAACAAAACCTTCCCGCTC TTTGTGTTGTTGTTTGTGATTTTGTTCCTGCTAGAATGTGACTTTGGGGTCAATTAT GTTGCTGCTGCAAGTGTCTGTAATCCCTATGAGTATATATATATATATATATATATA TATATAAAAACCTAGCACGTGTAATTTATATTTTTTTCATCGTAATGCAGGGTAACTATT ATTGCGCATTTTCATTTGGGCTTAACCTATTGGAAGTGTAGAGCATCCATCCATCCATC CATCCAGCAATGTGACTTTTTCAATGTCTTTCCTAACACAAAAGTCTATGTGTGTGGTT AGTCCCTGAACTCATGGCATTGTAATACATCCAGTACTTTTAAAATGACATATTTTTTT AAAAAAAAGATTAAGAAAACCCCAATTTGGAGGGAGGGGGGACTTAAAAAGCCATT ACATTGC </pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_002148
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_002148.3](#), [NP\\_002139.2](#)

**RefSeq Size:** 1814 bp

**RefSeq ORF:** 1023 bp

**Locus ID:** 3236

**UniProt ID:** [P28358](#)

**Cytogenetics:** 2q31.1

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** This gene is a member of the Abd-B homeobox family and encodes a protein with a homeobox DNA-binding domain. It is included in a cluster of homeobox D genes located on chromosome 2. The encoded nuclear protein functions as a sequence-specific transcription factor that is expressed in the developing limb buds and is involved in differentiation and limb development. Mutations in this gene have been associated with Wilm's tumor and congenital vertical talus (also known as "rocker-bottom foot" deformity or congenital convex pes valgus) and/or a foot deformity resembling that seen in Charcot-Marie-Tooth disease. [provided by RefSeq, Jul 2008]