

## Product datasheet for SC319752

### HOXD4 (NM\_014621) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HOXD4 (NM\_014621) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** HOXD4  
**Synonyms:** HHO.C13; Hox-4.2; HOX-5.1; HOX4; HOX4B  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_014621.2  
GGGGCCCTATGGAAGGAGAAAAAAGACAACACGAGAAAAATTAGTATTTTCTACCTTCT  
GAAATTAATGGTCATGAGTTCGTATATGGTGAACCTCAAGTATGTGGACCCCAAGTCC  
TCCGTGCGAGGAGTATTTGCAGGGCGGCTACCTAGGCGAGCAGGGCGCCACTACTACGG  
CGGCGGCGCGCAGGGCGCAGACTTCCAGCCCCGGGGCTCTACCCACGGCCCGACTTCGG  
TGAGCAGCCTTTTCGGAGGCAGCGCCCCGGGCTGGCTCGGCGCTGCCTGCGCGGGTCA  
CGGACAAGAGCCAGGCGGCCCGGCGGTCACTACGCCGCTCCAGGAGAGCCTTGCCACG  
TCCCCCGGCGCCTCCGCCGGCGCCCTGCCTGGCGCCCGGGCCTACAGTCAGTCCGACCC  
CAAGCAGCGCCCTCCGGGACGGCACTCAAGCAGCCGGCCGTGGTCTACCCCTGGATGAA  
GAAGGTGCACGTGAATTCGGTGAACCCCACTACACCGGTGGGAACCCAAGCGTCCCG  
AACGGCCTACACCCGGCAGCAAGTCCCTAGAAGTGGAAAAAGAATTTCAATTTAACAGGTA  
TCTGACAAGGCGCCGTCCGATTGAAATCGCTCACACCCTGTGTCTGTCGGAGCGCCAGAT  
CAAGATCTGGTCCAGAACCGGAGGATGAAGTGGAAAAAGATCATAAGCTGCCAACAC  
TAAAGGCAGGTACATCGTCTCATCTTCCCTCATCTTGCTCCTCCTCAGTCGCCCCAG  
CCAGCATTTACAGCCGATGGCCAAAGACCACACCGACCTGACGACCTTATAGAAGTG  
GGGACCTGGGCCATCTCTCCCTGCGCACCAGGCTGAGCCGAAGCTGCGGGGCGAGGCC  
GGGCTGCTGTACCTCGCTGGGCTCTAAGGTAAGTGTGGGGTGGACCTGGGACAAGCAGG  
CCGCCCTCGACTAGGTTAGCATCCTGCCCGAGGGCAGCCCCCTCCCTAGAGCGGGATGG  
GGATGGGAGGGGGCGGGATTCTCTCTAAGTATATTATATGGCAGGAGCTACTGAGA  
ACATAAAATCTTGGCGAGTCATTAACCTATGAAAAACAAAAAAAAAAAAAAAAAAAAAA  
AAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_014621



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<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>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_014621.2</a> , <a href="#">NP_055436.2</a>
<b>RefSeq Size:</b>	1298 bp
<b>RefSeq ORF:</b>	768 bp
<b>Locus ID:</b>	3233
<b>UniProt ID:</b>	<a href="#">P09016</a>
<b>Cytogenetics:</b>	2q31.1
<b>Domains:</b>	homeobox
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	<p>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, Jul 2008]</p>