

## Product datasheet for **SC115808**

### HOXD3 (NM\_006898) Human Untagged Clone

#### Product data:

|                    |                            |
|--------------------|----------------------------|
| Product Type:      | Expression Plasmids        |
| Tag:               | Tag Free                   |
| Symbol:            | HOXD3                      |
| Synonyms:          | Hox-4.1; HOXD; HOX4; HOX4A |
| Mammalian Cell     | None                       |
| Selection:         |                            |
| Vector:            | <u>pCMV6-XL4</u>           |
| E. coli Selection: | Ampicillin (100 ug/mL)     |

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_006898 edited  
 ATGTTATTTGAGCAGGGTCAGCAGGCCCTGGAGCTTCTGAGTGCACAATGCAGAAGGCT  
 GCTTACTATGAAAACCCAGGACTGTTTGGAGGCTATGGCTACAGCAAACTACGGACACT  
 TACGGGTACAGCACCCCCACAGCCCTACCCACCCCTGCTGCTGCCAGCTCCCTGGAC  
 ACTGACTATCCAGTTCTGCCTGCTCCATCCAGAGCTCTGCCCTCTGAGAGCCCCAGCC  
 CACAAAGGAGCTGAATCAATGGCAGCTGCATGCGCCGGGCACTGGGAACAGCCAGGGT  
 GGGGGTGGTGGCAGCCAGCCTCCTGGTCTGAATCAGAGCAGCAGCCACCACAACCCCT  
 CCTCCACCACCGACCTGCCCCCATCTTCACCCACCAATCCTGGAGGTGGAGTGCCTGCC  
 AAGAAGCCCAAGGTGGGCCAATGCTTCTAGCTCCTCAGCCACCATCAGCAAGCAGATC  
 TTCCCTGGATGAAAGAGTCTCGACAGAACTCCAAGCAGAAGAAGAGCTGTGCCACTGCA  
 GGAGAGAGCTGCGAGGACAAGAGCCCGCCAGGCCAGCATCCAAGCGGGTACGCACGGCA  
 TACACGAGCGCGCAGCTGGTGAATTGGAAGGAATTCACTTCAACCGCTACTTGTGC  
 CGGCCGCGCGCTGGAGATGGCCAACTGCTGAATCTCACGGAACGCCAGATCAAGATC  
 TGGTTCAGAACCGCGCATGAAGTACAAGAAGGACCAGAAGGCCAAGGCATCCTGCAC  
 TCGCCGGCTAGCCAGTCCCCTGAGCGCAGCCACCGCTCGGCGGCGCCGCTGGCCACGTG  
 GCCTACTCCGGCCAGCTGCCGCCAGTGCCCGGCTGGCTACGACGCGCCCTCGCCGCT  
 GCTTTCGCCAAATCACAGCCCAATATGTACGGCCTGGCCGCTACACGGCGCCACTCAGC  
 AGCTGCCTGCCACAACAGAAGCGCTACGCAGCGCCGAGTTTCGAGCCCCATCCCATGGCG  
 AGCAACGGCGCGGCTTCGCCAGCGCCAACCTGCAGGGCAGCCCGGTGTACGTGGCGGC  
 AACTTCGTGAGTCCATGGCGCCCGCTCCGGGCTGTCTTCAACCTGGGCCACCTCTCG  
 CACCCGTGTCGGCCAGCTGGACTACAGTTGCGCCGCGCAGATTCCAGGCAACCAACAC  
 CATGGACCTTGGACCCCTCATCCACCTACACAGATCTCTCGGCCACCACTCGTCTCAG  
 GGACGACTGCCGGAGGCTCCCAAACTGACGCATCTGTAG



|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_006898 unedited</p> <pre> CCACAGATATCAAAAGAAACCTGAAGAGCCTACCCAAAAAAGAGATAAAGACAAAAT TCAAGAAAAACACACATACATAATTGTGGTCACCTGGAGCCTGGGGCCGGCCAGCTC TCTCAGGATTGAGCAGACATTGGAGGTGGCAGTGAAGGATACAGTGGTAGTCAATGTTAT TTGAGCAGGGTCAGCAGGCCCTGGAGCTTCTGAGTGACAATGCAAAAGGCTGCTTACT ATGAAAACCCAGGACTGTTTGGAGGCTATGGCTACAGCAAACTACGGACACTACGGCT ACAGCACCCCCACCAGCCCTACCCACCCCTGCTGGTGGCAGCTCCCTGGACACTGACT ATCCAGGTTTGCCTGCTCCATACAGAGCTCTGCCCCCTGAGAGCCCCGCCACAAAG GAGCTGAATCAATGGCAGCTGCATGCGGCCGGGCACTGGGAACAGTCAGGGTGGGGGCC GCGGTTTCCCTCTCCCCCGTATTCTACCGTCACTCCCTCTTATTTCCCTTCT CCCCACTACCTATCCCTTTTCCCCCCCCCTCCCTGGTCCCGCGCGCCCCCCCCCCC CGCCCTTCCGTCTCGCTCCTCTCTGCCCCCCCCCCTACCCGCCACCCCGCTT TCCGCCATTGCGCCCACTCCCTCCGCCCTTTCATATTGTTCTCCGCGCCCCCGCTG TCCCCCACCCCTCTCTCTCTCTTTCATGTCTGACTGCCCCGTCCCCCGCGGTTT CCCCTCCCCTCCCCTCCCCTCGN </pre> |
| <b>Restriction Sites:</b>           | NotI-NotI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ACCN:</b>                        | NM_006898                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Insert Size:</b>                 | 3600 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <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 ORF of this clone has been fully sequenced and found one SNP compared with NM_006898.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <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>Note:</b>                        | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq:</b>                      | <u>NM_006898.4, NP_008829.3</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq Size:</b>                 | 2319 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>RefSeq ORF:</b>                  | 1299 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Locus ID:</b>                    | 3232                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**UniProt ID:** [P31249](#)

**Cytogenetics:** 2q31.1

**Domains:** homeobox

**Protein Families:** Transcription Factors

**Gene Summary:** 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 the regulation of cell adhesion processes. [provided by RefSeq, Jul 2008]