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# Product datasheet for SC303491

## HOXC6 (NM_004503) Human Untagged Clone

### Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | HOXC6 (NM_004503) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | HOXC6 |
| **Synonyms:** | CP25; HHO.C8; HOX3; HOX3C |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**Fully Sequenced ORF:**

>OriGene sequence for NM_004503 edited
ATGAATTCCTACTTCACTAACCCTTCCTTATCCTGCCACCTCGCCGGGGGCCAGGACGTC
CTCCCCAACGTCGCCCTCAATTCCACCGCCTATGATCCAGTGAGGCATTTCTCGACCTAT
GGAGCGGCCGTTGCCCAGAACCGGATCTACTCGACTCCCTTTTATTCGCCACAGGAGAAT
GTCGTGTTCAGTTCCAGCCGGGGGCCGTATGACTATGGATCTAATTCCTTTTACCAGGAG
AAAGACATGCTCTCAAACTGCAGACAAAACACCTTAGGACATAACACACAGACCTCAATC
GCTCAGGATTTTAGTTCTGAGCAGGGCAGGACTGCGCCCCAGGACCAGAAAGCCAGTATC
CAGATTTACCCCTGGATGCAGCGAATGAATTCGCACAGTGGGGTCGGCTACGGAGCGGAC
CGGAGGCGCGGCCGCCAGATCTACTCGCGGTACCAGACCCTGGAACTGGAGAAGGAATTT
CACTTCAATCGCTACCTAACGCGGCGCCGGCGCATCGAGATCGCCAACGCGCTTTGCCTG
ACCGAGCGACAGATCAAAATCTGGTTCCAGAACCGCCGGATGAAGTGGAAAAAAGAATCT
AATCTCACATCCACTCTCTCGGGGGGCGGCGGAGGGGCCACCGCCGACAGCCTGGGCGGA
AAAGAGGAAAAGCGGGAAGAGACAGAAGAGGAGAAGCAGAAAGAGTGACCAGGACTGTCC
CTGCCACCCCTCTCTCCCTTTCTCCCTCGCTCCCCACCAACTCTCCCCTAATCACACACT
CTGTATTTATCACTGGCACAATTGATGTGTTTTGATTCCCTAAAACAAAATTAGGGAGTC
AAACGTGGACCTGAAAGTCAGCTCTGGACCCCCTCCCTCACCGCACAACTCTCTTTCACC
ACGCGCCTCCTCCTCCTCGCTCCCTTGCTAGCTCGTTCTCGGCTTGTCTACAGGCCCTTT
TCCCCGTCCAGGCCTTGGGGGCTCGGACCCTGAACTCAGACTCTACAGATTGCCCTCCAA
GTGAGGACTTGGCTCCCCCACTCCTTCGACGCCCCCACCCCCGCCCCCCGTGCAGAGAGC
CGGCCCCTGGGCCTGCTGGGGCCTCTGCTCCAGGGCCTCAGGGCCCGGCCTGGCAGCCGG
GGAGGGCCGGAGGCCCAAGGAGGGCGCGCCTTGGCCCCACACCAACCCCCAGGGCCTCCC
CGCAGTCCCTGCCTAGCCCCTCTGCCCCAGCAAATGCCCAGCCCAGGCAAATTGTATTTA
AAGAATCCTGGGGGTCATTATGGCATTTTACAAACTGTGACCGTTTCTGTGTGAAGATTT
TTAGCTGTATTTGTGGTCTCTGTATTTATATTTATGTTTAGCACCGTCAGTGTTCCTATC
CAATTTCAAAAAAGGAAAAAAAAGAGGGAAAATTACAAAA



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_004503 unedited
NGACAAAATTTGTNATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGNATGAATTC
CTACTTCACTAACCCTTCCTTATCCTGCCACCTCGCCGGGGGCCAGGACGTCCTCCCCAA
CGTCGCCCTCAATTCCACCGCCTATGATCCAGTGAGGCATTTCTCGACCTATGGAGCGGC
CGTTGCCCAGAACCGGATCTACTCGACTCCCTTTTATTCGCCACAGGAGAATGTCGTGTT
CAGTTCCAGCCGGGGGCCGTATGACTATGGATCTAATTCCTTTTACCAGGAGAAAGACAT
GCTCTCAAACTGCAGACAAAACACCTTAGGACATAACACACAGACCTCAATCGCTCAGGA
TTTTAGTTCTGAGCAGGGCAGGACTGCGCCCCAGGACCAGAAAGCCAGTATCCAGATTTA
CCCCTGGATGCAGCGAATGAATTCGCACAGTGGGGTCGGCTACGGAGCGGACCGGAGGCG
CGGCCGCCAGATCTACTCGCGGTACCAGACCCTGGAACTGGAGAAGGAATTTCACTTCAA
TCGCTACCTAACGCGGCGCCGGCGCATCGAGATCGCCAACGCGCTTTGCCTGACCGAGCG
ACAGATCAAAATCTGGTTCCAGAACCGCCGGATGAAGTGGAAAAAAGAATCTAATCTCAC
ATCCACTCTCTCGGGGGGCGGCGGAGGGGCCACCGCCGACAGCCTGGGCGGAAAAGAGGA
AAAGCGGGAAGAGACAGAAGAGGAGAAGCANGAAGAGTGACCAGGACTGTCCCTGCCACC
CCTCTCTNCCTTTTCTCCCTCGCTCCCCACCAACTCTCCCCTAATCACACACT

**3' Read Nucleotide Sequence:**

>Forward primer walk for NM_004503 unedited
GCTGCGCTCGGATACCCACGCGCTTTGCCTGACCGACGACGNACAAATCTGGTTCCAGAA
CCGCCGGNATGAAAGTGGAAAAAAGAATCTAATCTCACATCCACTCTCTCGGGGGGCGGC
GGAGGGGCCACCGCCGACAGCCTGGGCGGAAAAGAGGAAAAGCGGGAAGAGACAGAAGAG
GAGAAGCAGAAAGAGTGACCAGGACTGTCCCTGCCACCCCTCTCTCCCTTTCTCCCTCGC
TCCCCACCAACTCTCCCCTAATCACACACTCTGTATTTATCACTGGCACAATTGATGTGT
TTTGATTCCCTAAAACAAAATTAGGGAGTCAAACGTGGACCTGAAAGTCAGCTCTGGACC
CCCTCCCTCACCGCACAACTCTCTTTCACCACGCGCCTCCTCCTCCTCGCTCCCTTGCTA
GCTCGTTCTCGGCTTGTCTACAGGCCCTTTTCCCCGTCCAGGCCTTGGGGGCTCGGACCC
TGAACTCAGACTCTACAGATTGCCCTCCAAGTGAGGACTTGGCTCCCCCACTCCTTCGAC
GCCCCCACCCCCGCCCCCCGTGCAGAGAGCCGGCCCCTGGGCCTGCTGGGGCCTCTGCTC
CAGGGCCTCAGGGCCCGGCCTGGCAGCCGGGGAGGGCCGGAGGCCCAAGGAGGGCGCGCC
TTGGCCCCACACCAACCCCCAGGGCCTCCCCGCAGTCCCTGCCTAGCCCCTCTGCCCCAG
CAAATGCCCAGCCCAGGCAAATTGTATTTAAAGAATCCTGGGGGTCATTATGGCATTTTA
CAAACTGTGACCGTTTCTGTGTGAAGATTTTTAGCTGTATTTGTGGTCTCTGGNATTATA
TTTATGTTTAGC

**Restriction Sites:** Please inquire

**ACCN:** NM_004503

**Insert Size:** 1400 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

**Components:** 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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_004503.3, NP_004494.1 |
| **RefSeq Size:** | 1681 bp |
| **RefSeq ORF:** | 708 bp |
| **Locus ID:** | 3223 |
| **UniProt ID:** | P09630 |
| **Cytogenetics:** | 12q13.13 |
| **Protein Families:** | Transcription Factors |
| **Gene Summary:** | This gene belongs to the homeobox family, members of which 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, which are located on different chromosomes and consist of 9 to 11 genes arranged in tandem. This gene, HOXC6, is one of several HOXC genes located in a cluster on chromosome 12. Three genes, HOXC5, HOXC4 and HOXC6, share a 5' non-coding exon. Transcripts may include the shared exon spliced to the gene-specific exons, or they may include only the gene-specific exons. Alternatively spliced transcript variants encoding different isoforms have been identified for HOXC6. Transcript variant two includes the shared exon, and transcript variant one includes only gene-specific exons. [provided by RefSeq, Jul 2008]<br>Transcript Variant: This variant (1) encodes the longer isoform (1). |