

Product datasheet for **SC125698**

HOXC4 (NM_153633) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXC4 (NM_153633) Human Untagged Clone
Tag:	Tag Free
Symbol:	HOXC4
Synonyms:	cp19; HOX3; HOX3E
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_153633 edited
 AGAAAAACGACAAAAGCGAGAAAAATTTTTCCACTCCAGAAATTAATGATCATGAGCTC
 GTATTTGATGGACTCTAACTACATCGATCCGAAATTTCTCCATGCGAAGAATATTCGCA
 AAATAGCTACATCCCTGAACACAGTCCGGAATATTACGGCCGGACCAGGGAATCGGGATT
 CCAGCATCACCACCAGGAGCTGTACCCACCACCGCCTCCGCGCCTAGCTACCCTGAGCG
 CCAGTATAGCTGCACCAGTCTCCAGGGGCCGGCAATTCGCGAGGCCACGGGCCGGCCCA
 GCGGGGCCACCACCACCCCGAGAAATCACAGTCGCTCTGCGAGCCGGCGCCTCTCTCAGG
 CGCTCCGCTCCCGTCCCGAGCCCGCCAGCCTGCAGCCAGCCAGCCCCGACCATCC
 CTCAGCGCCGCCAGCAAGCAACCCATAGTCTACCCATGGATGAAAAAATTCACGTTAG
 CACGGTGAACCCAGTTATAACGGAGGGGAACCAAGCGCTCGAGGACAGCCTATACCCG
 GCAGCAAGTCTGGAATTAGAGAAAGAGTTTCATTACAACCGCTACCTGACCCGAAGGAG
 AAGGATCGAGATCGCCACTCGCTGTGCCTCTCTGAGAGGCAGATCAAAATCTGGTTCCA
 AAACCGTCGCATGAAATGGAAGAAGGACCACCGACTCCCCAACACCAAAGTCAGGTCAGC
 ACCCCCGCCGGCGCTGCGCCAGCACCCTTTCGCGAGCTACCCGGGTACTTCTGAAGA
 CCACTCCAGAGCGCCACGCCGCGGAGCAGCAACGGGCAGAGGACATTACCAGTTATA
 AAACATAACTCACACCCCTGCCCCACCCATGCCCCACCCCTCCCTCACACACAAATT
 GACTCTTATTTATAGAATTAATATATATATATATATATATATATATAGGTTCTTTCTCTC
 TTCTCTCACCTTGCCCTGTGTCAGTTCCAAACAGACAAAACAGATAAACAAACAAGCCC
 CCTGCCCTCCTCTCCCTCCCACTGTTAAGGACCCTTTAAGCATGTGATGTTGTCTTAGC
 ATGGTACCTGCTGGGTGTTTTTTTTTAAAGGCCATTTTGGGGGTTATTTATTTTTTAA
 GAAAAAAGCTGCAAAAATATATATTGCAAGGTGTGATGGTCTGGCTGGGTGAATTTT
 AGGGGAAATGAGGAAAAGAAAAAGGAAAGAAATTTTAAAGCAAATTCATCCTTCTCC
 TCCTCCTCCTCCCGCCTTTTCTTTCAGCCTTTTGCATTGAAAATGCACCAGGGGAGT
 TAGTGAGGGGGAAGTCATTTTAAAGGAGAACAAGCTATGAAGTTCTTTGTATTATTGTT
 GGGGGGGTGTGGGAGGAGAGGGGGCAAGACAGCAGACAAAGCTAAATGCATCTGGAGA
 GCCTCTCAGAGCTGTTTCAGTTTGGAGGCAAAAAGAAAATCAAAATGAACTTTCAGTTCA
 GAGAGGCAGTCTATAGGTAGAATCTCTCCACCCCTATCGTGGTTATTGTGTTTTTGA
 CTGAATTTACTTGATTATTGTAACCTTGAATAAAGAATTTTAGTGTGATGTGAAATG
 CCCCCTGATCAATAATAAACAGTGGATGTGAATTAGTTTTAAAAAAAAAAAAAAAAAAAA
 AAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_153633 unedited
 CTAATTTGTAAACCACTCACTATAGGCGGCCGAGACTCCCGGATATCGTCGACCCACG
 CCGTCCGAGNAAAAACGACAAAAGCGAGAAAAATTTTTCCACTCCAGAAATTAATGATCA
 TGAGCTCGTATTTGATGGACTCTAACTACATCGATCCGAAATTTCTCCATGCGAAGAAT
 ATTCGAAAATAGCTACATCCCTGAACACAGTCCGGAATATTACGGCCGGACCAGGGAAT
 CGGGATTCAGCATCACCACCAGGAGCTGTACCCACCACCGCCTCCGCGCCTAGCTACC
 CTGAGCGCCAGTATAGCTGCACCAGTCTCCAGGGGCCCGCAATTCGCGAGGCCACGGGC
 CGGCCAGGCGGGCCACCACCACCCGAGAAATCACAGTCGCTCTGCGAGCCGGCGCCTC
 TCTCAGGCGCCTCCGCTCCCGTCCCGAGCCCGCCAGCCTGCAGCCAGCCAGCCCCG
 ACCATCCCTCCAGCGCCGCCAGCAAGCAACCCATAGTCTACCCATGGATGAAAAAATTC
 ACGTTAGCACGGTGAACCCAGTTATAACGGAGGGGAACCAAGCGCTCGAGGACAGCCT
 ATACCCGGCAGCAAGTCTGGAATTAGAGAAAGAGTTTCATTACAACCGCTACCTGACCC
 GAAGGAGAAGATCGAGATCGCCACTCGCTGTGCCTCTCTGAGAGGCAGATCANAATCTG
 GTTCCAAAACCGTCGCATGANATGGAAGAAGGACCACCGACTCCCCAACACAAAGTCAG
 GTCAGCACCCCCGCGCGCTGCNGCCAGCACCCTTTTCGAGCTACCCGGGTACTTC
 TGAGACCACNTCCAGAGCGCCACGCCGCGGNAGCAGCACGGGCAGAGGACATTACCAGT
 TATAAAAATANACTACACCCCTGCCCCACCCATGCCCCACCCCTCCCTTAAAC

Restriction Sites: NotI-NotI
ACCN: NM_153633

Insert Size:	1700 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).
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).
Reconstitution Method:	<ol style="list-style-type: none">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_153633.1 , NP_705897.1
RefSeq Size:	1215 bp
RefSeq ORF:	795 bp
Locus ID:	3221
UniProt ID:	P09017
Cytogenetics:	12q13.13
Protein Families:	Transcription Factors
Gene Summary:	<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, which are located on different chromosomes and consist of 9 to 11 genes arranged in tandem. This gene, HOXC4, is one of several homeobox 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. Two alternatively spliced variants that encode the same protein have been described for HOXC4. Transcript variant one includes the shared exon, and transcript variant two includes only gene-specific exons. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform.</p>