

Product datasheet for **SC321819**

HOXC4 (NM_014620) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXC4 (NM_014620) Human Untagged Clone
Tag:	Tag Free
Symbol:	HOXC4
Synonyms:	cp19; HOX3; HOX3E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_014620.4
 AGAAAAACGACAAAGCGAGAAAAATTATTTTCCACTCCAGAAATTAATGATCATGAGCTC
 GTATTTGATGGACTCTAACTACATCGATCCGAAATTTCTCCATGCGAAGAATATTCGCA
 AAATAGCTACATCCCTGAACACAGTCCGGAATATTACGGCCGGACCAGGGAATCGGGATT
 CCAGCATCACCACCAGGAGCTGTACCCACCACCGCCTCCGCGCCTAGCTACCCTGAGCG
 CCAGTATAGCTGCACCACTCTCCAGGGGCCGGCAATTCGCGAGGCCACGGGCCGGCCCA
 GGCGGGCCACCACCACCCCGAGAAATCACAGTCGCTCTGCGAGCCGGCGCCTCTCTCAGG
 CGCTCCGCTCCCGTCCCGAGCCCGCCAGCCTGCAGCCAGCCAGCCCCGACCATCC
 CTCAGCGCCGCCAGCAAGCAACCCATAGTCTACCCATGGATGAAAAAATTCACGTTAG
 CACGGTGAACCCAGTTATAACGGAGGGGAACCAAGCGCTCGAGGACAGCCTATACCCG
 GCAGCAAGTCTGGAATTAGAGAAAGAGTTTCATTACAACCGCTACCTGACCCGAAGGAG
 AAGGATCGAGATCGCCACTCGCTGTGCCTCTCTGAGAGGCAGATCAAAATCTGGTTCCA
 AAACCGTCGCATGAAATGGAAGAAGGACCACCGACTCCCCAACACCAAAGTCAGGTCAGC
 ACCCCCGCCGGCGCTGCGCCAGCACCTTTTCGCGAGCTACCCGGGTACTTCTGAAGA
 CCACTCCAGAGCGCCACGCCGCGGAGCAGCAACGGGCAGAGGACATTACCAGTTATA
 AAACATAACTCACACCCCTGCCCCACCCCATGCCCCACCCCTCCCTCACACACAAATT
 GACTCTTATTTATAGAATTAATATATATATATATATATATATATAGGTTCTTTTCTCTC
 TTCTCTCACCTTGCCCTGTGTCAGTTCAAAACAGACAAAACAGATAAACAAACAAGCCC
 CCTGCCCTCCTCTCCCTCCCACTGTTAAGGACCCTTTTAAGCATGTGATGTTGTCTTAGC
 ATGGTACTGTGGGTGTTTTTTTTTAAAGGCCATTTTGGGGGTTATTTATTTTTTAA
 GAAAAAAGCTGCAAAAATATATATTGCAAGGTGTGATGGTCTGGCTTGGGTGAATTC
 AGGGGAAATGAGGAAAAGAAAAAGGAAAGAAATTTTAAAGCCAATTCTCATCCTCTCC
 TCCTCCTCCTCCCGCCTTTTCTTAGCCCTTTTGCATTGAAAATGCACCAGGGGAGGT
 TAGTGAGGGGGAAGTCATTTTAAAGGAGAACAAGCTATGAAGTTCTTTTGTATTATTGTT
 GGGGGGGTGTGGGAGGAGAGGGGGCAAGACAGCAGACAAAGCTAAATGCATCTGGAGA
 GCCTCTCAGAGCTGTTTCAGTTTGGAGGCCAAAAGAAAATCAAAATGAACTTTCAGTTCA
 GAGAGGCAGTCTATAGGTAGAATCTCTCCCACCCCTATCGTGGTTATTGTGTTTTTGA
 CTGAATTTACTTGATTATTGTAACCTTGAATAAAGAATTTTAGTGTGATGTGAAATG
 CCCCCTGATCAATAATAAACAGTGGATGTGAATTAGTTTTAAAAAAAAAAAAAAAAAAAA
 AAAAA

Restriction Sites: Please inquire

ACCN: NM_014620

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:	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.
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_014620.4 , NP_055435.2
RefSeq Size:	2300 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 (1) represents the longer transcript. Variants 1 and 2 encode the same isoform.</p>