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Product datasheet for RC202156

HOXA5 (NM_019102) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXA5 (NM_019102) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HOXA5
Synonyms:	HOX1; HOX1.3; HOX1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202156 representing NM_019102.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCTCTTATTTTGTAAACTCATTTTGCGGTCGCTATCCAAATGGCCCGGACTACCAGTTGCATAAT
TATGGAGATCATAGTTCCGTGAGCGAGCAATTCAGGGACTCGGCGAGCATGCACTCCGGCAGGTACGGC
TACGGCTACAATGGCATGGATCTCAGCGTCGGCCGCTCGGGCTCCGGCCACTTTGGCTCCGGAGAGCGC
GCCCGCAGCTACGCTGCCAGCGCCAGCGCGGCGCCCGCCGAGCCCAGGTACAGCCAGCCGGCCACGTCC
ACGCACTCTCCTCAGCCCGATCCGCTGCCCTGCTCCGCCGTGGCCCCCTCGCCCGGCAGCGACAGCCAC
CACGGCGGGAAAAACTCCCTAAGCAACTCCAGCGGCGCCTCGGCCGACGCCGGCAGCACCCACATCAGC
AGCAGAGAGGGGGTTGGCACGGCGTCCGGAGCCGAGGAGGACGCCCCTGCCAGCAGCGAGCAGGCGAGT
GCGCAGAGCGAGCCGAGCCCGGCGCCGCCCGCCCAACCCCAGATCTACCCCTGGATGCGCGAGCTGCAC
ATAAGTCATGACAACATAGGCGGCCCGGAAGGCAAAAGGGCCCGGACGGCCTACACGCGCTACCAGACC
CTGGAGCTGGAGAAGGAGTTCCACTTCAACCGTTACCTGACCCGCAGAAGGAGGATTGAAATAGCACAT
GCTCTTTGCCTCTCCGAGAGACAAATTAAAATCTGGTTCCAAAACCGGAGAATGAAGTGGAAAAAAGAT
AATAAGCTGAAAAGCATGAGCATGGCCGCGGCAGGAGGGGCCTTCCGTCCC
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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Protein Sequence:

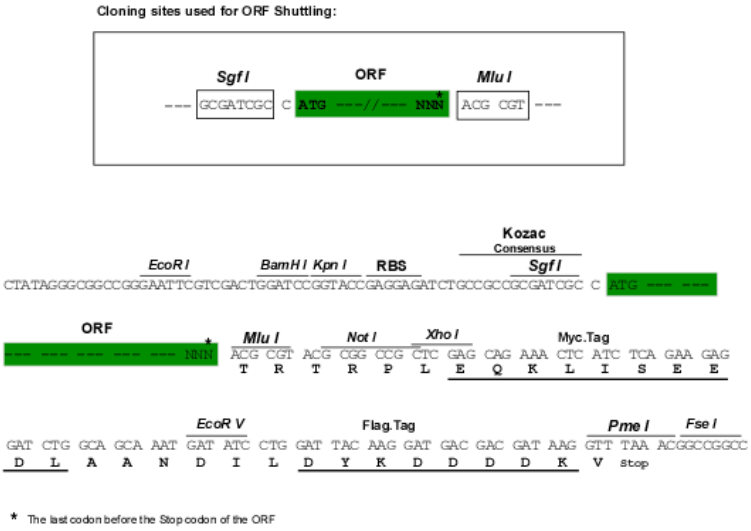
>Peptide sequence encoded by RC202156
Blue=ORF Red=Cloning site Green=Tag(s)

MSSYFVNSFCGRYPNGPDYQLHNYGDHSSVSEQFRDSASMHSGRYGYGYNGMDLSVGRSGSGHFGSGER
ARSYAASASAAPAEPRYSQPATSTHSPQPDPLPCSAVAPSPGSDSHHGGKNSLSNSSGASADAGSTHIS
SREGVGTASGAEEDAPASSEQASAQSEPSPAPPAQPQIYPWMRELHISHDNIGGPEGKRARTAYTRYQT
LELEKEFHFNRYLTRRRRIEIAHALCLSERQIKIWFQNRRMKWKKDNKLKSMSMAAAGGAFRP
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6287_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019102

ORF Size: 810 bp

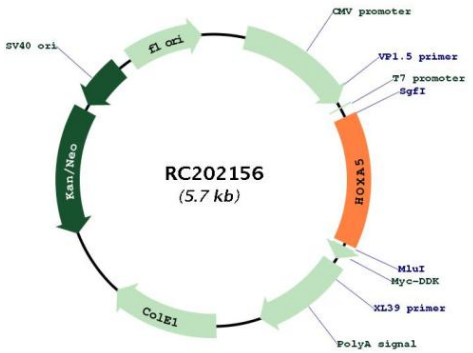
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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

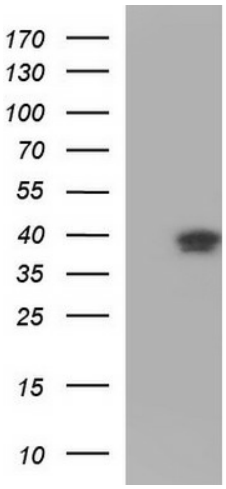
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq Size:	1657 bp
RefSeq ORF:	813 bp
Locus ID:	3202
UniProt ID:	P20719
Cytogenetics:	7p15.2
Domains:	homeobox
Protein Families:	Transcription Factors
MW:	29.3 kDa
Gene Summary:	In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development. This gene is part of the A cluster on chromosome 7 and encodes a DNA-binding transcription factor which may regulate gene expression, morphogenesis, and differentiation. Methylation of this gene may result in the loss of its expression and, since the encoded protein upregulates the tumor suppressor p53, this protein may play an important role in tumorigenesis. [provided by RefSeq, Jul 2008]

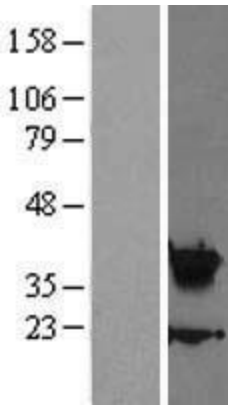
Product images:



Circular map for RC202156



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HOXA5 (Cat# RC202156, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HOXA5(Cat# [TA590480]). Positive lysates [LY412744] (100ug) and [LC412744] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412744]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202156 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).