

Product datasheet for **RG202156**

HOXA5 (NM_019102) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXA5 (NM_019102) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOXA5
Synonyms:	HOX1; HOX1.3; HOX1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202156 representing NM_019102. Blue=ORF Red=Cloning site Green=Tag(s)

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GTCGTTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCTTTATTTTGTAAACTCATTTTGCAGTTCGCTATCCAAATGGCCCGGACTACAGTTGCATAAT
TATGGAGATCATAGTTCCGTGAGCGAGCAATTCAGGGACTCGGCGAGCATGCACTCCGGCAGGTACGGC
TACGGCTACAATGGCATGGATCTCAGCGTCGGCCGCTCGGGCTCCGGCCACTTTGGCTCCGGAGAGCGC
GCCCGCAGCTACGCTGCCAGCGCCAGCGCGGCCCGCCGAGCCAGGTACAGCCAGCCGGCCACGTCC
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CACGGCGGAAAACTCCCTAAGCAACTCCAGCGCGCCTCGGCCGAGCCGGCAGCACCACATCAGC
AGCAGAGAGGGGTTGGCACGGCGTCCGGAGCCGAGGAGGACGCCCTGCCAGCAGCAGGCGAGT
GCGCAGAGCGAGCCGAGCCCGGCCCGCCGCCCAACCCAGATCTACCCCTGGATGCGCGAGCTGCAC
ATAAGTCATGACAACATAGGCGGCCCGGAAGGCAAAAGGGCCCGACGGCCTACACGCGCTACCAGACC
CTGGAGCTGGAGAAGGAGTTCCACTTCAACCGTTACCTGACCCGAGAGGAGGATTGAAATAGCACAT
GCTCTTTGCCCTCCGAGAGACAAATTAATCTGTTTCCAAACCGGAGAATGAAGTGGAAAAAAGAT
ATAAGCTGAAAAGCATGAGCATGGCCGCGCAGGAGGGGCTTCCGTCCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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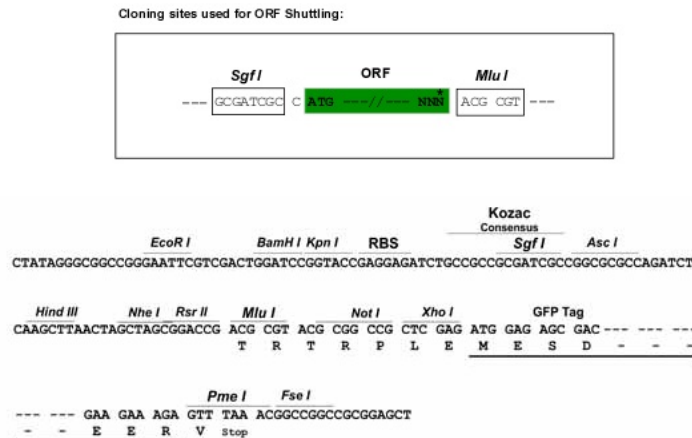
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG202156
 Blue=ORF Red=Cloning site Green=Tag(s)

MSSYFVNSFCGRYPNGPDYQLHNYGDHSSVSEQFRDSASMHSGRYGYGYNGMDLSVGRSGSGHFGSGER
 ARSYAASASAAPAEPRYSQPATSTHSPQPDPLPCSAVAPSPGSDSHHGKNSLSNSSGASADAGSTHIS
 SREGVGTASGAEDAPASSEQASQAQSESPAPPAQPQIYPWMRELHISHDNIGGPEGKRARTAYTRYQT
 LELEKEFHFNRYLRRRRIEIAHALCLSERQIKIWFQNRMRKWKDKNKLKSMMAAAGGAFRP
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019102

ORF Size: 810 bp

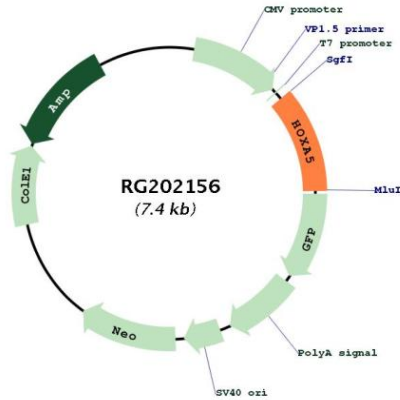
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<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 Size:	1332 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:	<p>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]</p>

Product images:



Circular map for RG202156