

Product datasheet for **RG202355**

HOXA3 (NM_030661) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | HOXA3 (NM_030661) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | HOXA3 |
| Synonyms: | HOX1; HOX1E |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG202355 representing NM_030661 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAAAAGCGACCTACTACGACAGCTCGGCGATCTACGGTGGCTACCCCTACCAGGCAGCCAACGGGT
TCGCTTATAATGCCAATCAGCAGCCGTACCCGGCGTCCGCGCTTTGGGCGCCGACGGCGAGTACCACCG
ACCCGCTGCTCCCTCCAGTCTCCCTCCAGCGCCGGGGCCACCCCAAGGCACACGAAGTGAAGGCG
TGCTGCGCACCTGAGCGCCACCTAGCCAGCTCCAAGCCTGGGAGAGCCGCCCTGCACCCCGCGC
CGCCCCAGGCGCGCCCTGCCCCACAGCCGCTCAGCCGACCTCAGCCCCCTGCACCTACCCCTGC
CGCGCCCCGCTCCCTCTTCTGCTCCCTCCTCAGAATGCCAGCAACAACCCTACCCCTGCCAACGCG
GCCAAGAGCCCCCTGCTCAACTACCCACAGTGGCCAAACAAATCTTCCCTGGATGAAAGAGTCTCGAC
AAAACACAAAGCAGAAAACCAGCAGCTCCAGCTCAGGCGAAAGCTGCGCTGGCGACAAGAGCCCGCGGG
GCAGGCTTCGTCGAAGCGCGCGCACGGCCTACACGAGCGCGCAGCTGGTGGAGCTGGAGAAAGAGTTC
CACTTCAACCGCTACCTGTGCCGGCCGCGCGGGTGGAGATGGCCAATCTGCTGAACCTCACTGAGCGCC
AGATCAAGATCTGGTCCAGAATCGCCGATGAAGTACAAAAGGATCAGAAGGGCAAGGGCATGCTAAC
GTCATCGGGGGCCAGTCTCAAGTGCAGCCCCGTGCCCGGAGCCGGTGGTATCTGAAGTCTATG
CATTGCGTGGTCAACAGCGTCCCGTATGAGCCCCAGTCCCGCCGCTTCTCAAGCCCCCAGGGTA
CCTACGGGCTGCCCGCCCTCCTACCCTGCGTCCCTGCCAGCTGCGCACCCCGCCACCCACAGAA
GCGCTACACGGCGCAGGGCGGGCGCAGGGGACCCCGACTATGACCCGCACGCTCATGGCCTGCAG
GGCAACGGCAGCTATGGGACCCACACATACAGGGAAGCCCGTCTTCTGGGGGCGAGCTATGTGGAGC
CCATGAGCAACTCCGGCCAGCCCTCTTGGTCTAACTCACCTCCCCACGCTGCCTCGGGCGCCATGGA
CTATGGGGTGGCGGCGCTGGGCGCGCCACCACCAGGGCCGGGCGCTGGGAGCCGACCCACC
TACACGGACCTACCGGCCACCATCCTTCTCAGGAAGAATTAGGAAGCACCCAAGCTCACCCACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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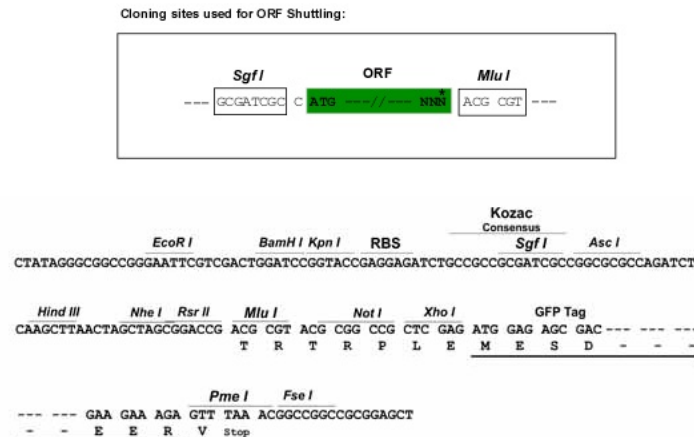
Protein Sequence: >RG202355 representing NM_030661
Red=Cloning site Green=Tags(s)

MQKATYYDSSAIYGGYPYQAANGFAYNANQQPYPPASAALGADGEYHRPACSLQSPSSAGGHPKAHELSEA
 CLRTL SAPP SQPPSLGEPPLHPPPPQAAPPAPQPPAPQPPAPTPAAPPSSASPPQNASNNPTANA
 AKSPLLNSPTVAKQIFPWMKESRQNTKQKTSSSSSGESCAGDKSPPGQASSKRARTAYTSAQLVELEKEF
 HFNRYL CRPRRVE MANLLNL TERQIKIWFQNRMKYKDKQKKGMLTSSGGQSPSRSPVPPGAGGYLNSM
 HSLVNSVPYEPQSPPPF SKPPQGT YGLPPASYPASLPSCAPPPPPQKRYT AAGAGAGGTPDYD PHAHGLQ
 GNGSYGTPHIQGS PVFVGGSYVEPMSNSGPALFGLTHLPHAASGAMDYGGAGPLGSGHHHGPGGEPHPT
 YDLTGHHPSQGRIQEAPKLTHL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030661

ORF Size: 1329 bp

OTI Disclaimer: 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.

RefSeq: [NM_030661.5](#)

RefSeq Size: 3258 bp

RefSeq ORF: 1332 bp

Locus ID: 3200

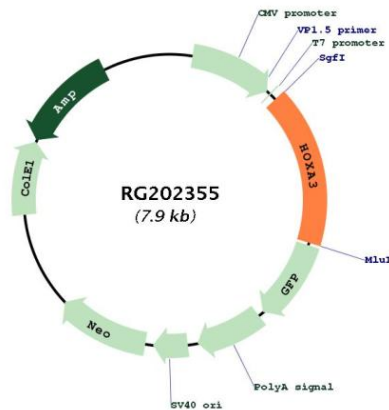
UniProt ID: [O43365](#)

Cytogenetics: 7p15.2

Protein Families: Transcription Factors

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. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202355