

## Product datasheet for **RG213447**

### HOXA4 (NM\_002141) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HOXA4 (NM_002141) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOXA4
Synonyms:	HOX1; HOX1D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213447 representing NM_002141 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCATGAGCTCGTTTTGATAAACTCCAACACTACATCGAGCCCAAGTTCCTCCCTTCGAGGAGTACG  
CGCAGCACAGCGGCTCGGGCGGCGCAGACGGCGGCCCGGGCGGGGCCCCGGCTACCAGCAGCCCCCAGC  
GCCCCGACCCAGCACCTGCCGCTGCAGCAGCCCCAGCTCCCTCACGCGGGCGGGCGGAGAGCCCACT  
GCCTCCTACTACGCGCCGCGGACCGCCCGGAGCCCGCTACCCTGCTGCCGCGTGTACCCCGCGCATG  
GGGCCGCGGACACCGCTACCCCTATGGCTACCGCGGCGGCCAGCCCCGGGCGGCCCGCCAGCCCGA  
GCAGCCCCCGGCGCAAGCAAGGGCCCAGCGCACGGCCTGCATGCGAGCCACGTCCTGCAGCCCCAGCTG  
CCGCCGCCCTGCAGCCTCGCGCCGTGCCCCAGCGGCCCGCGGCGCTGCGAGGCGGCCCGCCACCC  
CAGGCGTCCCAGGAGGGGCGAGGCCCGCCCGTGCCTGCTCTTGCCGACAAGAGCCCGCTGGGCT  
GAAGGGCAAGGAGCCCGTGGTGTACCCCTGGATGAAGAAGATCCATGTCAGCGCCGTTAACCCAGTTAT  
AACGGAGGGGAGCCTAAGCGCTCTGAACCGCTACACCCGGCAGCAGGTCTGGAGCTGGAGAAGGAGT  
TCCACTTCAATCGATACCTGACCCGGCGGCGCCGATCGAGATCGCCACACGCTCTGTTGTCTGAGCG  
CCAGGTCAAGATCTGTTTCAGAACCGGAGGATGAAGTGAAGAAAGACCACAACTGCCAACACCAAG  
ATGCGATCCTCCAATTCGGCCTCGGCTCTGCCGCCACCAGGAAAGCACAACTCAGAGCCACACC  
TCCATCCCCACCCACCCGAGCACCTCCACACCCGTTCCCTCCTCCATA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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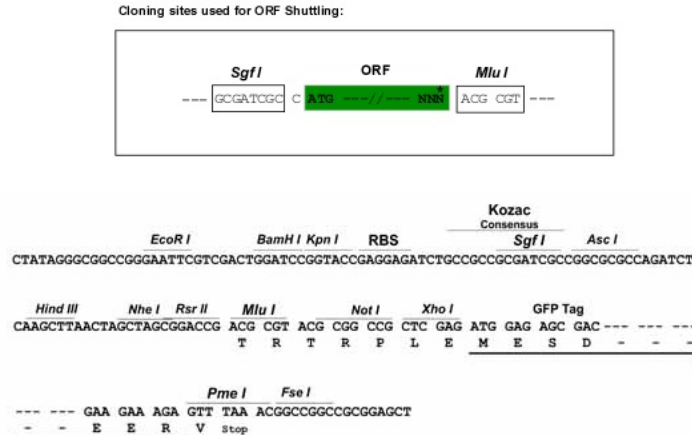
**Protein Sequence:** >RG213447 representing NM\_002141  
Red=Cloning site Green=Tags(s)

MTMSSFLINSNYIEPKFPFPFEEYAQHSVSGGADGGPGGGPGYQQPPAPPTQHLPLQQPQLPHAGGGREPT  
 ASYYAPRTAREPAYPAALYPHAADTAYPYGYRGGASPRPPQPEQPPAQAKGPAHGLHASHVLQPQL  
 PPPLQPRAVPPAAPRRCEAAPATPGVPAGGSAPACPLLLADKSPLGLKGKEPVVYPWMKKIHVSAVNPSY  
 NGGEPKRSRTAYTRQQVLELEKEFHFNRYLTRRRRIEIAHTLCLSERQVKIWFQNRMRMKWKDKHKLPTNK  
 MRSSNSASASAGPPGKAQTQSPHLHPHPHPSTSTPVPSSI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002141

**ORF Size:** 960 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\\_002141.5](#)

**RefSeq Size:** 1728 bp

**RefSeq ORF:** 963 bp

**Locus ID:** 3201

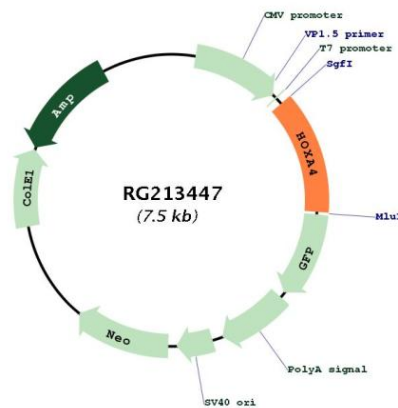
**UniProt ID:** [Q00056](#)

**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. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG213447