

Product datasheet for **MG206267**

Hoxa10 (NM_008263) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hoxa10 (NM_008263) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hoxa10
Synonyms:	Hox-1.8; Hoxa-10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206267 representing NM_008263 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGCCAGAAAGGGCTATCTGCTCCCTTCGCCAAATTATCCACAACAATGTCATGCTCGGAGAGCC
CTGCCCGAACTCCTTTTTGGTCGACTCGCTCATCAGCTCAGGCAGAGGGCAGGGCTGGTGTGGTGGCGG
TAGCGCGGGGGGGTGGAGGTGGCTACTACGCCACGGTGGGGTCTACCTGCCGCTGCCAGCGACCTG
CCCTACGGGTGCAAAGCTGCGGGCTCTCCCCGCGTGGGCAGCAAGCGTAATGAAGCGCCGTCGCCCC
GAGGCGGTGGCGGTGGTGGCAGCGGGGGCTGGGTCTGGGACGCATGGCTACGCGCCCGCCCTAGA
CCTGTGGCTGGACGCGCCCCGCTCCTGCCGGATGGAGCCGCCGACGGGCGCCGCCACCGAGCCACAA
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CGTGTCTTTTTGCGCAGAACATCAAAGAAGAGAGCTCCTACTGCCTCTACGATGCTGCGGACAAATGCC
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CCC GCCCGCCACTGGCCTCTGGCTCGACCGAGGCAGCCGGGAAGGAGCGAGTCTAGACTCCACGCCA
CCACCCACTCTGGTTTGCACCGGTGGCGGGCTCGCAGGGCGACGAGGAGGCACACGCGTCATCCTCGG
CGGCTGAGGAGCTGTCTCCAGCCCTTCAGAAAACAGTAAAGCTTCGCCGAGAAGGACTCCCTGGGCG
TTCCAAAGGCGAAAATGCAGCCTGCTCACAGCAAAGAGCGGCCGGAAGAAACGCTGCCCTTACAGC
AAGCACCAGACGCTGGAGCTGGAGAAGGAGTTTCTATTCAACATGTACCTTACTCGAGAGCGGCCCTAG
AGATCAGCCGTAGCGTCCACCTCACGGACAGACAAGTAAAATCTGGTTTCAGAAATCGCAGGATGAACT
GAAGAAAATGAACCGAGAAAACCGAATCCGGGAGCTCACAGCCTTTAATTTTCC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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 Red=Cloning site Green=Tags(s)

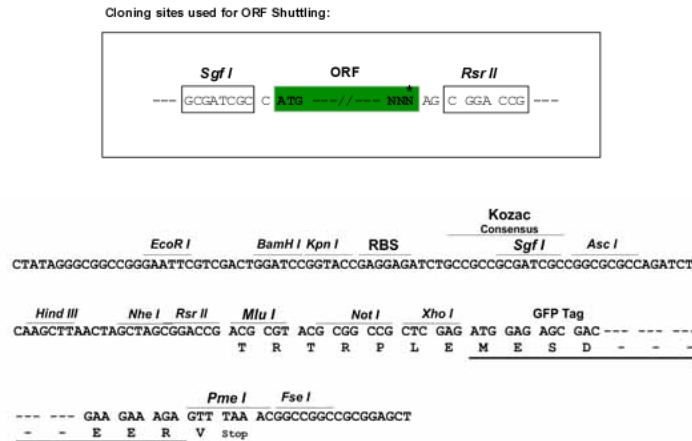
MSARKGYLLPSPNYPTTMSCESPAANSFLVDSL I SSGRGEAGVGGGSAGGGGGYAHGGVYLPPASDL
 PYGLQSCGLFPALGSKRNEAPSPGGGGGGSSGLGPGTHGYAPAPLDLWLDAPRSCRMEPPDGGPPPQPQ
 PQQQQQPPPPPPPPQPQATSCSFAQNIKEESSYCLYDAADKCPKGSAAADLAPFPRGPPPDGCALG
 ASSGVPVPGYFRLSQAYGTAKFGSGGGGTQQLASPFPAPPPGRGFDPPPALASGSTEAAGKERVL DSTP
 PPTLVCTGGGGSQDEEAHASSAAEELSPAPSENSKASPEKDSLGS SKGENAANWLTA KSGRKKRCPYT
 KHQ TLELEKEFLFNMYL TRERRLEI SRSVHL TDRQVKIWFQNRMKLKKMNRENRI RELTANFNFS

SGP TRRRLE - GFP Tag - V

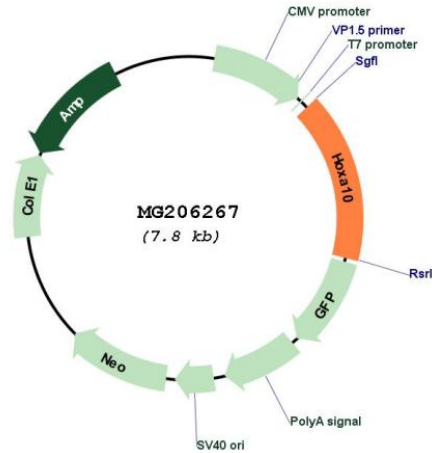
Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



Plasmid Map:



ACCN:

NM_008263

ORF Size:	1248 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:	<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_008263.3 , NP_032289.2
RefSeq Size:	2581 bp
RefSeq ORF:	1251 bp
Locus ID:	15395
UniProt ID:	P31310
Cytogenetics:	6 25.4 cM
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 a cluster on chromosome 6 and encodes a DNA-binding transcription factor that may regulate gene expression, morphogenesis, and differentiation. More specifically, it may function in fertility, embryo viability, and regulation of hematopoietic lineage commitment. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]