

Product datasheet for **MG203598**

Hoxa5 (NM_010453) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hoxa5 (NM_010453) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hoxa5
Synonyms:	Hox-1.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203598 representing NM_010453 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTCTTATTTTGTAAACTCATTTTGC GGTCGCTATCCAAATGGCCCGGACTACCAGTTGCATAATT
ATGGAGATCATAGTTCGGTGAGCGAACAATTCAGGGACTCGGCGAGCATGCACTCCGGCAGGTACGGCTA
CGGCTACAATGGCATGGATCTCAGCGTCGGCCGTTCCGGTTCGGCCACTTTGGCTCCGGCGAGCGCGTC
CGCAGCTACGCGGCTGGGGCCAGTGC GGCGCCCGCAGCCAGGTACAGCCAGCCGGCCACGTCCACGC
ACTCGCCACCGCCGACCCGCTGCCCTGCTCAGCGGTGGCCCCCTCGCCCGCAGCGACAGCCACCACGG
CGGGAAAACTCCCTGGGCAACTCCAGCGGCGCCTCGGCCAACGCCGAGCACCACATCAGCAGCAGA
GAGGGGTTGGCAGGGCTCCCGAGCCGAGGAGGACGCCCTGCCAGCAGCGAGCAGCGGGCGCCAGA
GCGAGCCGAGCCCGCGCCGCGCTCAGCCCCAGATCTACCCCTGGATGCGCAAGCTGCACATTAGTCA
CGACAATATAGGTGGCCAGAAGGCAAAAGGGCCCGGACGGCCTACACTCGCTACCAGACCCCTGGAGCTG
GAGAAAGAATTCCAATCAACCGCTACCTGACCCGCCGAAGAAGGATCGAAATAGCTCATGCCCTTTGCC
TCTCCGAGAGACAAATTAATCTGGTTCCAAAACAGGAGGATGAAGTGGAAAAAGATAATAAGCTGAA
AAGCATGAGTATGGCCCGGCAGGGGGGCTTTCCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203598 representing NM_010453
Red=Cloning site Green=Tags(s)

MSSYFVNSFCGRYPNGPDYQLHNYGDHSSVSEQFRDSASMHSGRYGYGYNGMDLSVGRSGSGHFGSGERV
 RSYAAGASAAPAEPRYSQPATSTHSPDPDPLPCSAVAPSPGSDSHHGKNSLGNSSGASANAGSTHSSR
 EGVGTASAAEEDAPASSEQAQAQSESPAPPAQPQIYPWMRKLHISHDNIIGGPEGKRARTAYTRYQTLEL
 EKEFHFNRYLTRRRRIEIAHALCLSERQIKIWFQNRMRKWKKNLKSMSMAAAGGAFRP

TRTRPLE - GFP Tag - V

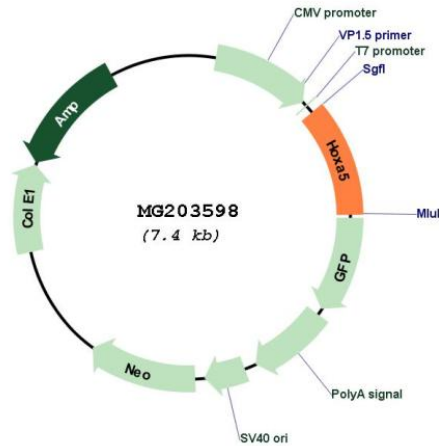
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_010453

ORF Size: 810 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_010453.5 , NP_034583.1
RefSeq Size:	1877 bp
RefSeq ORF:	813 bp
Locus ID:	15402
UniProt ID:	P09021
Cytogenetics:	6 25.4 cM
Gene Summary:	Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. Also binds to its own promoter. Binds specifically to the motif 5'-CYYNATTA[TG]Y-3'. [UniProtKB/Swiss-Prot Function]