

## Product datasheet for MG203243

## Meox1 (NM\_010791) Mouse Tagged ORF Clone

## Product data:

## OriGene Technologies, Inc.

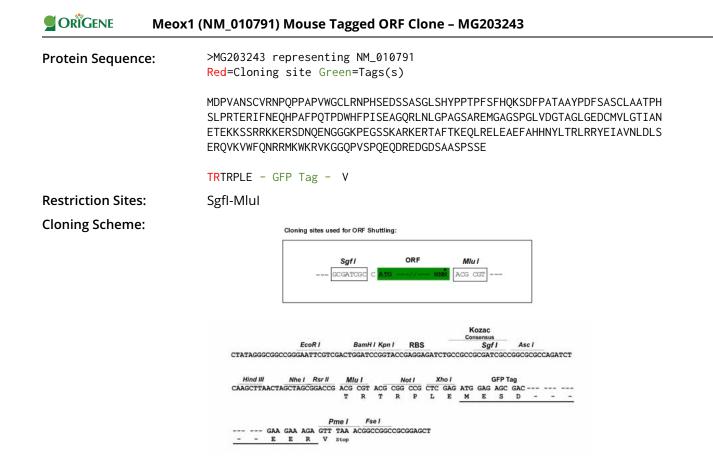
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Product Type:	Expression Plasmids
Product Name:	Meox1 (NM_010791) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Meox1
Synonyms:	Al385561; D330041M02Rik; Mox-1; Mox1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203243 representing NM_010791 Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

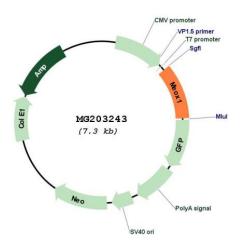
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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ACCN: ORF Size: NM\_010791 759 bp

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<b>GRIGENE</b> Meox1 (NM_010791) Mouse Tagged ORF Clone – MG203243	
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. <u>More info</u>
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 010791.3, NP 034921.1</u>
RefSeq Size:	2235 bp
RefSeq ORF:	762 bp
Locus ID:	17285
UniProt ID:	<u>P32442</u>
Cytogenetics:	11 65.48 cM
Gene Summary:	Mesodermal transcription factor that plays a key role in somitogenesis and is specifically required for sclerotome development. Required for maintenance of the sclerotome polarity and formation of the cranio-cervical joints (PubMed:19520072). Binds specifically to the promoter of target genes and regulates their expression. Activates expression of NKX3-2 in the sclerotome (PubMed:15024065). Activates expression of CDKN1A and CDKN2A in endothelial cells, acting as a regulator of vascular cell proliferation. While it activates CDKN1A in a DNA-dependent manner, it activates CDKN2A in a DNA-independent manner (PubMed:22206000). Required for hematopoietic stem cell (HSCs) induction via its role in somitogenesis: specification of HSCs occurs via the deployment of a specific endothelial

somitogenesis: specification of HSCs occurs via the deployment of a specific endothelia precursor population, which arises within a sub-compartment of the somite named endotome (By similarity).[UniProtKB/Swiss-Prot Function]

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