

Product datasheet for **MR203243L4V**

Meox1 (NM_010791) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Meox1 (NM_010791) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Meox1
Synonyms:	AI385561; D330041M02Rik; Mox-1; Mox1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_010791
ORF Size:	762 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR203243).
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.
RefSeq:	NM_010791.3 , NP_034921.1
RefSeq Size:	2235 bp
RefSeq ORF:	762 bp
Locus ID:	17285
UniProt ID:	P32442
Cytogenetics:	11 65.48 cM



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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 precursor population, which arises within a sub-compartment of the somite named endotome (By similarity).[UniProtKB/Swiss-Prot Function]