

Product datasheet for **MR211216L4V**

Mkl1 (NM_001082536) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Mkl1 (NM_001082536) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Mkl1
Synonyms:	AMKL; Bsac; Mal; Mrtf-A
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001082536
ORF Size:	2787 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR211216).
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_001082536.1 , NP_001076005.1
RefSeq Size:	4366 bp
RefSeq ORF:	2790 bp
Locus ID:	223701
UniProt ID:	Q8K4J6
Cytogenetics:	15 E1



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Gene Summary:

Transcription coactivator that associates with the serum response factor (SRF) transcription factor to control expression of genes regulating the cytoskeleton during development, morphogenesis and cell migration (PubMed:12019265, PubMed:12732141, PubMed:17588931, PubMed:19350017, PubMed:24732378). The SRF-MRTFA complex activity responds to Rho GTPase-induced changes in cellular globular actin (G-actin) concentration, thereby coupling cytoskeletal gene expression to cytoskeletal dynamics (PubMed:24732378). MRTFA binds G-actin via its RPEL repeats, regulating activity of the MRTFA-SRF complex (PubMed:12732141, PubMed:17588931). Activity is also regulated by filamentous actin (F-actin) in the nucleus (PubMed:23558171, PubMed:25759381).[UniProtKB/Swiss-Prot Function]