

## OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

## Product datasheet for MR204373L4V

## Nmral1 (NM\_026393) Mouse Tagged ORF Clone Lentiviral Particle

## **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Nmral1 (NM_026393) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Nmral1
Synonyms:	1110025F24Rik; Al256624
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_026393
ORF Size:	930 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR204373).
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.
RefSeq:	<u>NM 026393.1</u>
RefSeq Size:	1483 bp
RefSeq ORF:	930 bp
Locus ID:	67824
UniProt ID:	<u>Q8K2T1</u>
Cytogenetics:	16 2.46 cM



View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US



Gene Summary:Redox sensor protein. Undergoes restructuring and subcellular redistribution in response to<br/>changes in intracellular NADPH/NADP(+) levels. At low NADPH concentrations the protein is<br/>found mainly as a monomer, and binds argininosuccinate synthase (ASS1), the enzyme<br/>involved in nitric oxide synthesis. Association with ASS1 impairs its activity and reduces the<br/>production of nitric oxide, which subsecuently prevents apoptosis. Under normal NADPH<br/>concentrations, the protein is found as a dimer and hides the binding site for ASS1. The<br/>homodimer binds one molecule of NADPH. Has higher affinity for NADPH than for NADP(+).<br/>Binding to NADPH is necessary to form a stable dimer (By similarity).[UniProtKB/Swiss-Prot<br/>Function]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US