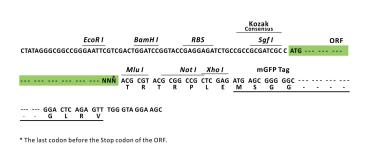


Product datasheet for RC230787L4

MDH1 (NM_001199112) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDH1 (NM_001199112) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	MDH1
Synonyms:	DEE88; EIEE88; HEL-S-32; KAR; MDH-s; MDHA; MGC:1375; MOR2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC230787).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GCC ATG NNN ACG CGT



ACCN: ORF Size: NM_001199112 1005 bp

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



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OTI Disclaimer:Due to the inherent nature of this plasmid, standa of DNA in E. coli are highly likely to result in mutati OriGene does not guarantee the capability to repli of DNA can be purchased from OriGene with batch reduced cost. Please contact our customer care tea calling 301.340.3188 option 3 for pricing and deliverThe molecular sequence of this clone aligns with the reference only. However, individual transcript sequ naturally occurring variations (e.g. polymorphisms clone is substantially in agreement with the reference variants is recommended prior to use. More infoOTI Annotation:This clone was engineered to express the complete varies depending on the nature of the gene.Components:The ORF clone is ion-exchange column purified and containing 10ug of transfection-ready, dried plasmReconstitution Method:1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile 3. Close the tube and incubate for 10 minutes at ro 4. Briefly vortex the tube and then do a quick spin at the bottom.	ions and/or rearrangements. Therefore, icate this plasmid DNA. Additional amounts h-specific, full-sequence verification at a am at <u>custsupport@origene.com</u> or by
 reference only. However, individual transcript sequenaturally occurring variations (e.g. polymorphisms clone is substantially in agreement with the reference variants is recommended prior to use. More info OTI Annotation: This clone was engineered to express the complete varies depending on the nature of the gene. Components: The ORF clone is ion-exchange column purified and containing 10ug of transfection-ready, dried plasm Reconstitution Method: 1. Centrifuge at 5,000xg for 5min. Close the tube and incubate for 10 minutes at reference. 	ery.
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Reconstitution Method:1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile3. Close the tube and incubate for 10 minutes at ro4. Briefly vortex the tube and then do a quick spin	e ORF with an expression tag. Expression
 Carefully open the tube and add 100ul of sterile Close the tube and incubate for 10 minutes at ro Briefly vortex the tube and then do a quick spin 	
5. Store the suspended plasmid at -20°C. The DNA shipping when stored at -20°C.	oom temperature. (less than 5000xg) to concentrate the liquid
RefSeq: <u>NM 001199112.1</u> , <u>NP 001186041.1</u>	
RefSeq Size: 1364 bp	
RefSeq ORF: 738 bp	
Locus ID: 4190	
UniProt ID: <u>P40925</u>	
Cytogenetics: 2p15	
Protein Families: Druggable Genome	
Protein Pathways:Citrate cycle (TCA cycle), Glyoxylate and dicarboxyl Pyruvate metabolism	ate metabolism, Metabolic pathways,
MW: 36.4 kDa	

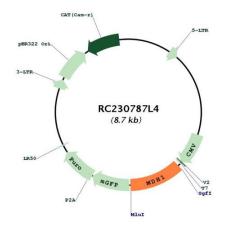
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Scrigene MDH1 (NM_001199112) Human Tagged Lenti ORF Clone – RC230787L4

Gene Summary:

This gene encodes an enzyme that catalyzes the NAD/NADH-dependent, reversible oxidation of malate to oxaloacetate in many metabolic pathways, including the citric acid cycle. Two main isozymes are known to exist in eukaryotic cells: one is found in the mitochondrial matrix and the other in the cytoplasm. This gene encodes the cytosolic isozyme, which plays a key role in the malate-aspartate shuttle that allows malate to pass through the mitochondrial membrane to be transformed into oxaloacetate for further cellular processes. Alternatively spliced transcript variants have been found for this gene. A recent study showed that a Cterminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is localized in the peroxisomes. Pseudogenes have been identified on chromosomes X and 6. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RC230787L4

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