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Product datasheet for MR204371L4V

Ciapin1 (NM_134141) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Ciapin1 (NM_134141) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Ciapin1
Synonyms:	2810413N20Rik; AA617265; anamorsin; AU021794
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_134141
ORF Size:	930 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(MR204371).`
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_134141.4, NP_598902.1
RefSeq Size:	4327 bp
RefSeq ORF:	930 bp
Locus ID:	109006
UniProt ID:	Q8WTY4
Cytogenetics:	8 C5

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Gene Summary: Component of the cytosolic iron-sulfur (Fe-S) protein assembly (CIA) machinery required for the maturation of extramitochondrial Fe-S proteins. Part of an electron transfer chain functioning in an early step of cytosolic Fe-S biogenesis, facilitating the de novo assembly of a [4Fe-4S] cluster on the scaffold complex NUBP1-NUBP2. Electrons are transferred to CIAPIN1 from NADPH via the FAD- and FMN-containing protein NDOR1. NDOR1-CIAPIN1 are also required for the assembly of the diferric tyrosyl radical cofactor of ribonucleotide reductase (RNR), probably by providing electrons for reduction during radical cofactor maturation in the catalytic small subunit (By similarity). Has anti-apoptotic effects in the cell. Involved in negative control of cell death upon cytokine withdrawal. Promotes development of hematopoietic cells (PubMed:14970183).[UniProtKB/Swiss-Prot Function]