

## Product datasheet for **MR204371**

### Ciapin1 (NM\_134141) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ciapin1 (NM_134141) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ciapin1
Synonyms:	2810413N20Rik; AA617265; anamorsin; AU021794
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204371 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGAGTTTGGGATCTCCCCTGGCCAGCTTGTGGCAGTGTTCTGGGACAAGTCATCTCCTGAGGAAG  
CCCTAAAAAGCTGGTGGCTAGACTGCAAGAGTTAACTGGCAGCGAGGGCCAGGTATTCATGAAAAACGT  
CACCCAGCTGTTGCAGTCTTCGCATAAGGAATCCAGCTTCGATGTCATTCTGTGGGTGTAGTCCCAGGA  
AGCACCTCTGACAGTGTGAGGTTCTGGCTGAGATGGCCCGGATCCTCCGGCCAGGGGGCTGTCTTT  
TTCTGAAAGAACCAGTGGAGACAGCTGAAGTTAACAATGACAAAATGAAGACGGCCTCTAAGCTATGTTT  
AGCCCTGACTCTTTCTGGCCTCGTGAAAATAAAAGAGTTGCAGAGGGAGGCCCTTAAGCCCTGAGGAGGTA  
CAGTCCGTGCAGGAGCACCTGGGCTACACAGTGACAGCCTGCGCTCAGTCCGTGTCAGTGGCAAGAAGC  
CAAACCTTTGAAGTGGGTTCTTAGCCAGCTAAAGCTTCCAACAAGAAGTCTTCTTCAGTGAAGCCTGT  
TGTGGATCCTGTGCTGCCAAGCTCTGGACCCTCTCAGCAATGACATGGAGGATGACAGTGTGGATCTC  
ATTGACTCAGACGAGCTGCTTGATCCAGAGGATTTGAAGAGGCCCTGACCCAGCCTCCCTGAAGGCTCCT  
CATGTGGGAAGGAAAAAGAGGAAGGCCCTGTAAGAACTGCACCTGTGGCCTCGCAGAGGAACTGGAGCG  
GGAGCAGTCCAAGGCGCAGAGCTCTCAGCCCAAGTCAGCCTGTGGAAATTGCTACCTGGGTGACGCTTTC  
CGCTGTGCCAACTGCCCTACCTCGGGATGCCAGCCTTCAAGCCTGGCGAGCAGGTGCTCCTGAGCAATA  
GCAATCTCCAGGATGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204371 protein sequence  
Red=Cloning site Green=Tags(s)

MEEFGISPGQLVAVFWDKSSPEEALKKLVARLQELTGSEGVFMENVTQLLQSSHKESFDVILSGVVP  
 STSLHSAEVLAEAMARILRPGGCLFLKEPVETAENVNDKMKTASKLCSALTL SGLVEIKELQREALSPEEV  
 QSVQEHLYHSDSLRSVRVTGKKPNFEVGSSSQLKLPNKKSSSVKPVVDPAAAKLWTL SANDMEDDSVDL  
 IDSDELLDPEDLKRDPASLKAPSCGEGKKRACKNCTCGLAEELEREQSKAQSSQPKSACGNCYLGD  
 AFRCANCPYLGMFAFKPGEQVLLSNSNLQDA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_134141

**ORF Size:** 930 bp

**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.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_134141.4](#), [NP\\_598902.1](#)

**RefSeq Size:** 4327 bp

**RefSeq ORF:** 930 bp

**Locus ID:** 109006

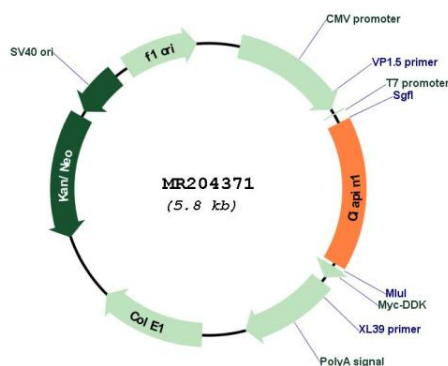
**UniProt ID:** [Q8WTY4](#)

**Cytogenetics:** 8 C5

**MW:** 33.4 kDa

**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]

## Product images:



Circular map for MR204371