

## Product datasheet for RN214471

### Ciapin1 (NM\_001007689) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ciapin1 (NM\_001007689) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ciapin1  
**Synonyms:** MGC94686  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN214471 representing NM\_001007689  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCGAGTTTGGGATCTCCCCTGGCCAGCTTGTGGCAGTGTCTGTGACAAGTCATCTTCTGAAGAGG  
CCCTTAAAAAAGTGGTGGTAGAGTTCAAGGATTAAGTGGCAGCGAGGGCCAAGTATTCGTGAAAAACAT  
CACCCAGCTGTTGCAGTCTGCCATAAGGAATCCAGCTTCGATGTCATTCTGTCCGGTATAGTCCCAGGA  
AGCACCTCTGACAGTCTGAGGCTCTGGCTGACATGGCCCGGATCCTCCGGCCAGGGGGGTGTCTTT  
TTCTGAAAGAACCAGTGGAGACAAGTGAAGTAAACAATGACAAAAAAGACAGCCTCTAAGCTGTGTTT  
AGCCCTGACTCTTTCTGGCCTTGTGAAAATAAAGAGTTGCAGCGGGAGGCCCTAAGCCCTGAGGAGGCG  
CAGTCCATGCAGGAGCACCTGGGCTACCACAGTGCAGCCTGCTCTCAGTCCACGTCACAGGCAAGAAGC  
CAAACCTTGAAGTGGGTTCTTCTAGCCAGCTAAAGCTTCCACAAGAAGTCGTCTTCAGTGAAGCCTGT  
TGTGGATCCTGCTACTGCCAAGCTCTGGACCCTCTCAGCCAATGACATGGAGGATGACAGCATGGATCTC  
ATTGACTCAGATGAGCTGCTAGATCCAGAAGATTTGAAGAAGCCTGATCCAGCCTCTCTGAAGGCCCTT  
CATGTGGGGAAGGAAAAAGAGGAAGGCCTGTAAGAAGTGCACCTGTGGCCTGGCAGAGGAAGTGGAGAA  
AGAGCAGTCCAAGGCGCAGAGCTCTCAGCCAAGTGCAGCCTGTGGAAATTGCTACCTGGGAGATGCTTTC  
CGATGTGCCAAGTCCCTACCTTGGGATGCCAGCCTCAAGCCTGGAGAGCAGGTCCTCCTGAGCAGTA  
GCAACCTCCAGGATGCC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001007689  
**Insert Size:** 930 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001007689.1</a> , <a href="#">NP_001007690.1</a>
<b>RefSeq Size:</b>	1806 bp
<b>RefSeq ORF:</b>	930 bp
<b>Locus ID:</b>	307649
<b>UniProt ID:</b>	<a href="#">Q5XID1</a>
<b>Cytogenetics:</b>	19p13
<b>Gene Summary:</b>	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. Has anti-apoptotic effects in the cell. Involved in negative control of cell death upon cytokine withdrawal. Promotes development of hematopoietic cells. [UniProtKB/Swiss-Prot Function]