

## Product datasheet for **RC200301**

### CLPP (NM\_006012) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLPP (NM_006012) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLPP
Synonyms:	DFNB81; PRLTS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200301 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTGGCCCGGAATATTGGTAGGGGGGGCCGGGTGGCGTCATGCAGGTACCCCGCGCTGGGGCCTCGCC  
 TCGCCGCTCACTTTCCAGCGCAGCGGCCCGCGCAGCGGACACTCCAGAACGGCCTGGCCCTGCAGCGGTG  
 CCTGCACGCGACGGGACCCGGGCTCTCCCGCTCATTCCCATCGTGGTGGAGCAGACGGGTGCGGGCGAG  
 CGCGCCTATGACATCTACTCGCGGCTGCTGCGGGAGCGCATCGTGTGCGTCATGGGCCCGATCGATGACA  
 GCGTTGCCAGCCTTGTTATCGCACAGCTCCTCTTCCTGCAATCCGAGAGCAACAAGAAGCCCATCCACAT  
 GTACATCAACAGCCCTGGTGGTGTGGTGACCGCGGGCCTGGCCATCTACGACACGATGCAGTACATCCTC  
 AACCCGATCTGCACCTGGTGGTGGGCCAGGCCGCCAGCATGGGCTCCCTGCTTCTCGCCGCCGGCACCC  
 CAGGCATGCGCCACTCGCTCCCCAACTCCCGTATCATGATCCACCAGCCCTCAGGAGGCGCCCGGGGCCA  
 AGCCACAGACATTGCCATCCAGGCAGAGGAGATCATGAAGCTCAAGAAGCAGCTCTATAACATCTACGCC  
 AAGCACACCAACAGAGCCTGCAGGTGATCGAGTCCGCCATGGAGAGGGACCGCTACATGAGCCCCATGG  
 AGGCCAGGAGTTTGGCATCTTAGACAAGGTTCTGGTCCACCCTCCCCAGGACGGTGAGGATGAGCCAC  
 GCTGGTGCAGAAGGAGCCTGTAGAAGCAGCGCCGGCAGCAGAACCTGTCCAGCTAGCACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >RC200301 protein sequence  
 Red=Cloning site Green=Tags(s)

MWPGILVGGARVASCYPALGPRLAAHFPAQRPPQRTLQNLALQRLHATATRALPLIPIVVEQTGRGE  
 RAYDIYSRLLRERIVCVMGPIDDSVASLVIAQLFLQSESNKKPIHMYINSPGGVVTAGLAITYDTMQYIL  
 NPICWCVGQAASMGSLLLAAGTPGMRHSLPNSRIMIHQPSGGARGQATDIAIQAEIIMKLKKQLYNIYA  
 KHTKQSLQVIESAMERDRYMSPMEAQEFGLDKVLVHPPQDGEDEPTLVQKEPVEAAPAAEPVPAST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6082\\_h03.zip](https://cdn.origene.com/chromatograms/mk6082_h03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006012

**ORF Size:** 831 bp

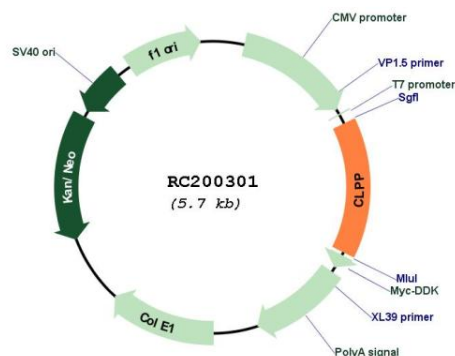
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

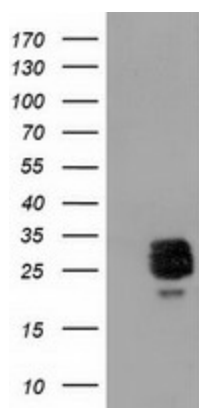
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_006012.4</a>
<b>RefSeq Size:</b>	1194 bp
<b>RefSeq ORF:</b>	834 bp
<b>Locus ID:</b>	8192
<b>UniProt ID:</b>	<a href="#">Q16740</a>
<b>Cytogenetics:</b>	19p13.3
<b>Domains:</b>	CLP_protease
<b>Protein Families:</b>	Druggable Genome, Protease
<b>MW:</b>	30.2 kDa
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the peptidase family S14 and hydrolyzes proteins into small peptides in the presence of ATP and magnesium. The protein is transported into mitochondrial matrix and is associated with the inner mitochondrial membrane. [provided by RefSeq, Jul 2008]

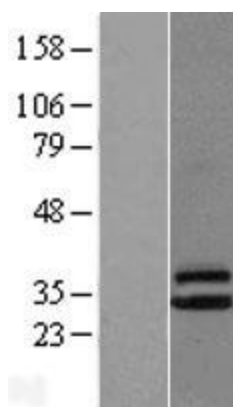
## Product images:



Circular map for RC200301



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CLPP (Cat# RC200301, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CLPP (Cat# [TA502061]). Positive lysates [LY416925] (100ug) and [LC416925] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416925]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200301 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CLPP protein (Cat# [TP300301]). The protein was produced from HEK293T cells transfected with CLPP cDNA clone (Cat# RC200301) using MegaTran 2.0 (Cat# [TT210002]).